

ANALYTICAL REPORT

Job Number: 460-110715-1

Job Description: DEC Elmont546; Site: E130150

For:

New York State D.E.C.
625 Broadway 9th Floor
Albany, NY 12233-7258

Attention: Mr. Brian Jankauskas

Melissa Haas

Approved for release.
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Project Manager I
5/25/2016 3:42 PM

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05/25/2016
Revision: 1

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Job Number: 460-110715-1

Job Description: DEC Elmont546; Site: E130150

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A handwritten signature in black ink that reads "Melissa Haas". The signature is written in a cursive style with a horizontal line underneath.

Approved for release.
Melissa Haas
Project Manager I
5/25/2016 3:42 PM

Melissa Haas

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CASE NARRATIVE

Client: New York State D.E.C.

Project: DEC Elmont546; Site: E130150

Report Number: 460-110715-1

Revision #1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

REVISION #1

The following report required a revision: 460-110715-1. Details are as follows: The client requested that ICVs be reported for SVOC analysis.

RECEIPT

The samples were received on 03/18/2016; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.2 C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

SEMIVOLATILE ORGANIC COMPOUNDS

Samples C3 (460-110715-1) and C4 (460-110715-2) were analyzed for Semivolatile organic compounds in accordance with EPA SW-846 Method 8270D. The samples were prepared on 03/29/2016 and analyzed on 03/30/2016.

Method(s) 8270D: The laboratory control sample (LCS) in preparation batch 480-293139 and analytical batch 480-293176 recovered below control limits for 2,4-Dinitrophenol, Acetophenone and 2,3,4,6-Tetrachlorophenol. Insufficient volume remains for re-extraction and re-analysis of the following sample: C3 (460-110715-1) and C4 (460-110715-2). The data have been qualified and reported.

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 480-293176 recovered above the upper control limit for Benzaldehyde. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: C3 (460-110715-1) and C4 (460-110715-2).

Method(s) 8270D: The laboratory control sample (LCS) for batch preparation batch 480-293139 and analytical batch 480-293176 recovered outside control limits for the following analytes: Benzaldehyde. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

Method(s) 8270D: The initial calibration curve analyzed in analytical batch 480-290883 was outside method criteria for the following analyte(s): 2,4-Dinitrophenol. As indicated in the reference method, sample analysis may proceed; however, any detection or non-detection for the affected analyte(s) is considered an estimated concentration.

Method(s) 8270D: The following samples was diluted due to the nature of the sample matrix: C3 (460-110715-1), (460-110715-B-1-B MS) and (460-110715-B-1-C MSD). As such, surrogate and MS/MSD spike recoveries were reduced to a level where the recovery calculation does not provide useful information.

Method(s) 8270D: The following sample was diluted due to the nature of the sample matrix: C4 (460-110715-2). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

Method(s) 8270D: The initial calibration verification (ICV) result for batch 480-290883 was above the upper control limit for Benzaldehyde. Associated samples were non-detect for this compound; therefore the data have been reported.

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

METALS

Samples C3 (460-110715-1) and C4 (460-110715-2) were analyzed for Metals in accordance with EPA SW-846 Methods 6010C. The samples were prepared on 03/27/2016 and analyzed on 03/29/2016.

Samples C3 (460-110715-1)[4X] and C4 (460-110715-2)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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

PERCENT SOLIDS/PERCENT MOISTURE

Samples C3 (460-110715-1) and C4 (460-110715-2) were analyzed for percent solids/percent moisture in accordance with EPA Method CLPISM01.2 (Exhibit D) Modified. The samples were analyzed on 03/24/2016.

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

Sample Summary

Client: New York State D.E.C.
Project/Site: DEC Elmont546; Site: E130150

TestAmerica Job ID: 460-110715-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-110715-1	C3	Solid	03/18/16 12:15	03/18/16 17:30
460-110715-2	C4	Solid	03/18/16 12:20	03/18/16 17:30

Detection Summary

Client: New York State D.E.C.
Project/Site: DEC Elmont546; Site: E130150

TestAmerica Job ID: 460-110715-1

Client Sample ID: C3

Lab Sample ID: 460-110715-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	1500	J	3500	350	ug/Kg	20	☼	8270D	Total/NA
Benzo[a]pyrene	1300	J	3500	520	ug/Kg	20	☼	8270D	Total/NA
Benzo[b]fluoranthene	1700	J	3500	560	ug/Kg	20	☼	8270D	Total/NA
Benzo[g,h,i]perylene	2100	J	3500	370	ug/Kg	20	☼	8270D	Total/NA
Benzo[k]fluoranthene	610	J	3500	460	ug/Kg	20	☼	8270D	Total/NA
Chrysene	1700	J	3500	790	ug/Kg	20	☼	8270D	Total/NA
Dibenz(a,h)anthracene	1600	J	3500	620	ug/Kg	20	☼	8270D	Total/NA
Fluoranthene	3200	J	3500	370	ug/Kg	20	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	2000	J	3500	440	ug/Kg	20	☼	8270D	Total/NA
Phenanthrene	2300	J	3500	520	ug/Kg	20	☼	8270D	Total/NA
Pyrene	2400	J	3500	420	ug/Kg	20	☼	8270D	Total/NA
Aluminum	3800		33.4	17.2	mg/Kg	4	☼	6010C	Total/NA
Arsenic	3.8		2.5	0.82	mg/Kg	4	☼	6010C	Total/NA
Barium	307		33.4	1.2	mg/Kg	4	☼	6010C	Total/NA
Cadmium	0.93		0.67	0.35	mg/Kg	4	☼	6010C	Total/NA
Calcium	654	J	834	49.4	mg/Kg	4	☼	6010C	Total/NA
Chromium	11.4		1.7	0.81	mg/Kg	4	☼	6010C	Total/NA
Cobalt	3.8	J	8.3	0.96	mg/Kg	4	☼	6010C	Total/NA
Copper	31.7		4.2	1.1	mg/Kg	4	☼	6010C	Total/NA
Iron	17800		25.0	18.9	mg/Kg	4	☼	6010C	Total/NA
Lead	1520		1.7	0.65	mg/Kg	4	☼	6010C	Total/NA
Magnesium	715	J	834	41.6	mg/Kg	4	☼	6010C	Total/NA
Manganese	239		2.5	0.88	mg/Kg	4	☼	6010C	Total/NA
Nickel	14.7		6.7	1.2	mg/Kg	4	☼	6010C	Total/NA
Potassium	305	J	834	25.3	mg/Kg	4	☼	6010C	Total/NA
Silver	0.32	J	1.7	0.29	mg/Kg	4	☼	6010C	Total/NA
Vanadium	9.5		8.3	0.83	mg/Kg	4	☼	6010C	Total/NA
Zinc	514		5.0	1.2	mg/Kg	4	☼	6010C	Total/NA

Client Sample ID: C4

Lab Sample ID: 460-110715-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	1200	J	3900	390	ug/Kg	20	☼	8270D	Total/NA
Benzo[a]pyrene	1000	J	3900	580	ug/Kg	20	☼	8270D	Total/NA
Benzo[b]fluoranthene	1400	J	3900	620	ug/Kg	20	☼	8270D	Total/NA
Benzo[g,h,i]perylene	2100	J	3900	420	ug/Kg	20	☼	8270D	Total/NA
Benzo[k]fluoranthene	680	J	3900	510	ug/Kg	20	☼	8270D	Total/NA
Chrysene	1300	J	3900	880	ug/Kg	20	☼	8270D	Total/NA
Dibenz(a,h)anthracene	1700	J	3900	690	ug/Kg	20	☼	8270D	Total/NA
Fluoranthene	2700	J	3900	420	ug/Kg	20	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	2000	J	3900	480	ug/Kg	20	☼	8270D	Total/NA
Phenanthrene	2300	J	3900	580	ug/Kg	20	☼	8270D	Total/NA
Pyrene	1900	J	3900	460	ug/Kg	20	☼	8270D	Total/NA
Aluminum	4230		38.5	19.8	mg/Kg	4	☼	6010C	Total/NA
Arsenic	8.6		2.9	0.95	mg/Kg	4	☼	6010C	Total/NA
Barium	223		38.5	1.4	mg/Kg	4	☼	6010C	Total/NA
Cadmium	0.87		0.77	0.40	mg/Kg	4	☼	6010C	Total/NA
Calcium	1920		962	56.9	mg/Kg	4	☼	6010C	Total/NA
Chromium	17.1		1.9	0.93	mg/Kg	4	☼	6010C	Total/NA
Cobalt	5.3	J	9.6	1.1	mg/Kg	4	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Edison

Detection Summary

Client: New York State D.E.C.
Project/Site: DEC Elmont546; Site: E130150

TestAmerica Job ID: 460-110715-1

Client Sample ID: C4 (Continued)

Lab Sample ID: 460-110715-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Copper	34.8		4.8	1.3	mg/Kg	4		☼	6010C	Total/NA
Iron	25700		28.9	21.7	mg/Kg	4		☼	6010C	Total/NA
Lead	1170		1.9	0.75	mg/Kg	4		☼	6010C	Total/NA
Magnesium	1070		962	48.0	mg/Kg	4		☼	6010C	Total/NA
Manganese	224		2.9	1.0	mg/Kg	4		☼	6010C	Total/NA
Nickel	20.9		7.7	1.4	mg/Kg	4		☼	6010C	Total/NA
Potassium	223	J	962	29.1	mg/Kg	4		☼	6010C	Total/NA
Silver	0.70	J	1.9	0.34	mg/Kg	4		☼	6010C	Total/NA
Vanadium	12.1		9.6	0.96	mg/Kg	4		☼	6010C	Total/NA
Zinc	356		5.8	1.4	mg/Kg	4		☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Edison

Method Summary

Client: New York State D.E.C.
Project/Site: DEC Elmont546; Site: E130150

TestAmerica Job ID: 460-110715-1

Method	Method Description	Protocol	Laboratory
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL EDI
Moisture	Percent Moisture	EPA	TAL EDI

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Client Sample Results

Client: New York State D.E.C.
Project/Site: DEC Elmont546; Site: E130150

TestAmerica Job ID: 460-110715-1

Client Sample ID: C3

Date Collected: 03/18/16 12:15

Date Received: 03/18/16 17:30

Lab Sample ID: 460-110715-1

Matrix: Solid

Percent Solids: 95.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	3500	U	3500	520	ug/Kg	☼	03/29/16 16:12	03/30/16 10:10	20
1,2,4,5-Tetrachlorobenzene	3500	U	3500	600	ug/Kg	☼	03/29/16 16:12	03/30/16 10:10	20
2,2'-oxybis[1-chloropropane]	3500	U	3500	710	ug/Kg	☼	03/29/16 16:12	03/30/16 10:10	20
2,3,4,6-Tetrachlorophenol	3500	U *	3500	730	ug/Kg	☼	03/29/16 16:12	03/30/16 10:10	20
2,4,5-Trichlorophenol	3500	U	3500	960	ug/Kg	☼	03/29/16 16:12	03/30/16 10:10	20
2,4,6-Trichlorophenol	3500	U	3500	710	ug/Kg	☼	03/29/16 16:12	03/30/16 10:10	20
2,4-Dichlorophenol	3500	U	3500	370	ug/Kg	☼	03/29/16 16:12	03/30/16 10:10	20
2,4-Dimethylphenol	3500	U	3500	850	ug/Kg	☼	03/29/16 16:12	03/30/16 10:10	20
2,4-Dinitrophenol	35000	U *	35000	16000	ug/Kg	☼	03/29/16 16:12	03/30/16 10:10	20
2,4-Dinitrotoluene	3500	U	3500	730	ug/Kg	☼	03/29/16 16:12	03/30/16 10:10	20
2,6-Dinitrotoluene	3500	U	3500	420	ug/Kg	☼	03/29/16 16:12	03/30/16 10:10	20
2-Chloronaphthalene	3500	U	3500	580	ug/Kg	☼	03/29/16 16:12	03/30/16 10:10	20
2-Chlorophenol	3500	U	3500	650	ug/Kg	☼	03/29/16 16:12	03/30/16 10:10	20
2-Methylnaphthalene	3500	U	3500	710	ug/Kg	☼	03/29/16 16:12	03/30/16 10:10	20
2-Methylphenol	3500	U	3500	420	ug/Kg	☼	03/29/16 16:12	03/30/16 10:10	20
2-Nitroaniline	6900	U	6900	520	ug/Kg	☼	03/29/16 16:12	03/30/16 10:10	20
2-Nitrophenol	3500	U	3500	1000	ug/Kg	☼	03/29/16 16:12	03/30/16 10:10	20
3,3'-Dichlorobenzidine	6900	U	6900	4200	ug/Kg	☼	03/29/16 16:12	03/30/16 10:10	20
3-Nitroaniline	6900	U	6900	980	ug/Kg	☼	03/29/16 16:12	03/30/16 10:10	20
4,6-Dinitro-2-methylphenol	6900	U	6900	3500	ug/Kg	☼	03/29/16 16:12	03/30/16 10:10	20
4-Bromophenyl phenyl ether	3500	U	3500	500	ug/Kg	☼	03/29/16 16:12	03/30/16 10:10	20
4-Chloro-3-methylphenol	3500	U	3500	870	ug/Kg	☼	03/29/16 16:12	03/30/16 10:10	20
4-Chloroaniline	3500	U	3500	870	ug/Kg	☼	03/29/16 16:12	03/30/16 10:10	20
4-Chlorophenyl phenyl ether	3500	U	3500	440	ug/Kg	☼	03/29/16 16:12	03/30/16 10:10	20
4-Methylphenol	6900	U	6900	420	ug/Kg	☼	03/29/16 16:12	03/30/16 10:10	20
4-Nitroaniline	6900	U	6900	1900	ug/Kg	☼	03/29/16 16:12	03/30/16 10:10	20
4-Nitrophenol	6900	U	6900	2500	ug/Kg	☼	03/29/16 16:12	03/30/16 10:10	20
Acenaphthene	3500	U	3500	520	ug/Kg	☼	03/29/16 16:12	03/30/16 10:10	20
Acenaphthylene	3500	U	3500	460	ug/Kg	☼	03/29/16 16:12	03/30/16 10:10	20
Acetophenone	3500	U *	3500	480	ug/Kg	☼	03/29/16 16:12	03/30/16 10:10	20
Anthracene	3500	U	3500	870	ug/Kg	☼	03/29/16 16:12	03/30/16 10:10	20
Atrazine	3500	U	3500	1200	ug/Kg	☼	03/29/16 16:12	03/30/16 10:10	20
Benzaldehyde	3500	U *	3500	2800	ug/Kg	☼	03/29/16 16:12	03/30/16 10:10	20
Benzo[a]anthracene	1500	J	3500	350	ug/Kg	☼	03/29/16 16:12	03/30/16 10:10	20
Benzo[a]pyrene	1300	J	3500	520	ug/Kg	☼	03/29/16 16:12	03/30/16 10:10	20
Benzo[b]fluoranthene	1700	J	3500	560	ug/Kg	☼	03/29/16 16:12	03/30/16 10:10	20
Benzo[g,h,i]perylene	2100	J	3500	370	ug/Kg	☼	03/29/16 16:12	03/30/16 10:10	20
Benzo[k]fluoranthene	610	J	3500	460	ug/Kg	☼	03/29/16 16:12	03/30/16 10:10	20
Bis(2-chloroethoxy)methane	3500	U	3500	750	ug/Kg	☼	03/29/16 16:12	03/30/16 10:10	20
Bis(2-chloroethyl)ether	3500	U	3500	460	ug/Kg	☼	03/29/16 16:12	03/30/16 10:10	20
Bis(2-ethylhexyl) phthalate	3500	U	3500	1200	ug/Kg	☼	03/29/16 16:12	03/30/16 10:10	20
Butyl benzyl phthalate	3500	U	3500	580	ug/Kg	☼	03/29/16 16:12	03/30/16 10:10	20
Caprolactam	3500	U	3500	1100	ug/Kg	☼	03/29/16 16:12	03/30/16 10:10	20
Carbazole	3500	U	3500	420	ug/Kg	☼	03/29/16 16:12	03/30/16 10:10	20
Chrysene	1700	J	3500	790	ug/Kg	☼	03/29/16 16:12	03/30/16 10:10	20
Dibenz(a,h)anthracene	1600	J	3500	620	ug/Kg	☼	03/29/16 16:12	03/30/16 10:10	20
Dibenzofuran	3500	U	3500	420	ug/Kg	☼	03/29/16 16:12	03/30/16 10:10	20
Diethyl phthalate	3500	U	3500	460	ug/Kg	☼	03/29/16 16:12	03/30/16 10:10	20
Dimethyl phthalate	3500	U	3500	420	ug/Kg	☼	03/29/16 16:12	03/30/16 10:10	20

TestAmerica Edison

Client Sample Results

Client: New York State D.E.C.
Project/Site: DEC Elmont546; Site: E130150

TestAmerica Job ID: 460-110715-1

Client Sample ID: C3

Date Collected: 03/18/16 12:15

Date Received: 03/18/16 17:30

Lab Sample ID: 460-110715-1

Matrix: Solid

Percent Solids: 95.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	3500	U	3500	600	ug/Kg	☼	03/29/16 16:12	03/30/16 10:10	20
Di-n-octyl phthalate	3500	U	3500	420	ug/Kg	☼	03/29/16 16:12	03/30/16 10:10	20
Fluoranthene	3200	J	3500	370	ug/Kg	☼	03/29/16 16:12	03/30/16 10:10	20
Fluorene	3500	U	3500	420	ug/Kg	☼	03/29/16 16:12	03/30/16 10:10	20
Hexachlorobenzene	3500	U	3500	480	ug/Kg	☼	03/29/16 16:12	03/30/16 10:10	20
Hexachlorobutadiene	3500	U	3500	520	ug/Kg	☼	03/29/16 16:12	03/30/16 10:10	20
Hexachlorocyclopentadiene	3500	U	3500	480	ug/Kg	☼	03/29/16 16:12	03/30/16 10:10	20
Hexachloroethane	3500	U	3500	460	ug/Kg	☼	03/29/16 16:12	03/30/16 10:10	20
Indeno[1,2,3-cd]pyrene	2000	J	3500	440	ug/Kg	☼	03/29/16 16:12	03/30/16 10:10	20
Isophorone	3500	U	3500	750	ug/Kg	☼	03/29/16 16:12	03/30/16 10:10	20
Naphthalene	3500	U	3500	460	ug/Kg	☼	03/29/16 16:12	03/30/16 10:10	20
Nitrobenzene	3500	U	3500	400	ug/Kg	☼	03/29/16 16:12	03/30/16 10:10	20
N-Nitrosodi-n-propylamine	3500	U	3500	600	ug/Kg	☼	03/29/16 16:12	03/30/16 10:10	20
N-Nitrosodiphenylamine	3500	U	3500	2900	ug/Kg	☼	03/29/16 16:12	03/30/16 10:10	20
Pentachlorophenol	6900	U	6900	3500	ug/Kg	☼	03/29/16 16:12	03/30/16 10:10	20
Phenanthrene	2300	J	3500	520	ug/Kg	☼	03/29/16 16:12	03/30/16 10:10	20
Phenol	3500	U	3500	540	ug/Kg	☼	03/29/16 16:12	03/30/16 10:10	20
Pyrene	2400	J	3500	420	ug/Kg	☼	03/29/16 16:12	03/30/16 10:10	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	152	*	39 - 146	03/29/16 16:12	03/30/16 10:10	20
2-Fluorobiphenyl	79		37 - 120	03/29/16 16:12	03/30/16 10:10	20
2-Fluorophenol (Surr)	73		18 - 120	03/29/16 16:12	03/30/16 10:10	20
Nitrobenzene-d5 (Surr)	66		34 - 132	03/29/16 16:12	03/30/16 10:10	20
Phenol-d5 (Surr)	73		11 - 120	03/29/16 16:12	03/30/16 10:10	20
p-Terphenyl-d14 (Surr)	75		65 - 153	03/29/16 16:12	03/30/16 10:10	20

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	3800		33.4	17.2	mg/Kg	☼	03/27/16 20:57	03/29/16 18:48	4
Antimony	3.3	U	3.3	1.3	mg/Kg	☼	03/27/16 20:57	03/29/16 18:48	4
Arsenic	3.8		2.5	0.82	mg/Kg	☼	03/27/16 20:57	03/29/16 18:48	4
Barium	307		33.4	1.2	mg/Kg	☼	03/27/16 20:57	03/29/16 18:48	4
Beryllium	0.33	U	0.33	0.28	mg/Kg	☼	03/27/16 20:57	03/29/16 18:48	4
Cadmium	0.93		0.67	0.35	mg/Kg	☼	03/27/16 20:57	03/29/16 18:48	4
Calcium	654	J	834	49.4	mg/Kg	☼	03/27/16 20:57	03/29/16 18:48	4
Chromium	11.4		1.7	0.81	mg/Kg	☼	03/27/16 20:57	03/29/16 18:48	4
Cobalt	3.8	J	8.3	0.96	mg/Kg	☼	03/27/16 20:57	03/29/16 18:48	4
Copper	31.7		4.2	1.1	mg/Kg	☼	03/27/16 20:57	03/29/16 18:48	4
Iron	17800		25.0	18.9	mg/Kg	☼	03/27/16 20:57	03/29/16 18:48	4
Lead	1520		1.7	0.65	mg/Kg	☼	03/27/16 20:57	03/29/16 18:48	4
Magnesium	715	J	834	41.6	mg/Kg	☼	03/27/16 20:57	03/29/16 18:48	4
Manganese	239		2.5	0.88	mg/Kg	☼	03/27/16 20:57	03/29/16 18:48	4
Nickel	14.7		6.7	1.2	mg/Kg	☼	03/27/16 20:57	03/29/16 18:48	4
Potassium	305	J	834	25.3	mg/Kg	☼	03/27/16 20:57	03/29/16 18:48	4
Selenium	3.3	U	3.3	1.2	mg/Kg	☼	03/27/16 20:57	03/29/16 18:48	4
Silver	0.32	J	1.7	0.29	mg/Kg	☼	03/27/16 20:57	03/29/16 18:48	4
Sodium	834	U	834	56.5	mg/Kg	☼	03/27/16 20:57	03/29/16 18:48	4
Thallium	3.3	U	3.3	1.5	mg/Kg	☼	03/27/16 20:57	03/29/16 18:48	4
Vanadium	9.5		8.3	0.83	mg/Kg	☼	03/27/16 20:57	03/29/16 18:48	4

TestAmerica Edison

Client Sample Results

Client: New York State D.E.C.
Project/Site: DEC Elmont546; Site: E130150

TestAmerica Job ID: 460-110715-1

Client Sample ID: C3

Date Collected: 03/18/16 12:15

Date Received: 03/18/16 17:30

Lab Sample ID: 460-110715-1

Matrix: Solid

Percent Solids: 95.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	514		5.0	1.2	mg/Kg	☼	03/27/16 20:57	03/29/16 18:48	4

Client Sample ID: C4

Date Collected: 03/18/16 12:20

Date Received: 03/18/16 17:30

Lab Sample ID: 460-110715-2

Matrix: Solid

Percent Solids: 84.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	3900	U	3900	580	ug/Kg	☼	03/29/16 16:12	03/30/16 10:37	20
1,2,4,5-Tetrachlorobenzene	3900	U	3900	670	ug/Kg	☼	03/29/16 16:12	03/30/16 10:37	20
2,2'-oxybis[1-chloropropane]	3900	U	3900	780	ug/Kg	☼	03/29/16 16:12	03/30/16 10:37	20
2,3,4,6-Tetrachlorophenol	3900	U *	3900	810	ug/Kg	☼	03/29/16 16:12	03/30/16 10:37	20
2,4,5-Trichlorophenol	3900	U	3900	1100	ug/Kg	☼	03/29/16 16:12	03/30/16 10:37	20
2,4,6-Trichlorophenol	3900	U	3900	780	ug/Kg	☼	03/29/16 16:12	03/30/16 10:37	20
2,4-Dichlorophenol	3900	U	3900	420	ug/Kg	☼	03/29/16 16:12	03/30/16 10:37	20
2,4-Dimethylphenol	3900	U	3900	950	ug/Kg	☼	03/29/16 16:12	03/30/16 10:37	20
2,4-Dinitrophenol	38000	U *	38000	18000	ug/Kg	☼	03/29/16 16:12	03/30/16 10:37	20
2,4-Dinitrotoluene	3900	U	3900	810	ug/Kg	☼	03/29/16 16:12	03/30/16 10:37	20
2,6-Dinitrotoluene	3900	U	3900	460	ug/Kg	☼	03/29/16 16:12	03/30/16 10:37	20
2-Chloronaphthalene	3900	U	3900	650	ug/Kg	☼	03/29/16 16:12	03/30/16 10:37	20
2-Chlorophenol	3900	U	3900	720	ug/Kg	☼	03/29/16 16:12	03/30/16 10:37	20
2-Methylnaphthalene	3900	U	3900	780	ug/Kg	☼	03/29/16 16:12	03/30/16 10:37	20
2-Methylphenol	3900	U	3900	460	ug/Kg	☼	03/29/16 16:12	03/30/16 10:37	20
2-Nitroaniline	7600	U	7600	580	ug/Kg	☼	03/29/16 16:12	03/30/16 10:37	20
2-Nitrophenol	3900	U	3900	1100	ug/Kg	☼	03/29/16 16:12	03/30/16 10:37	20
3,3'-Dichlorobenzidine	7600	U	7600	4600	ug/Kg	☼	03/29/16 16:12	03/30/16 10:37	20
3-Nitroaniline	7600	U	7600	1100	ug/Kg	☼	03/29/16 16:12	03/30/16 10:37	20
4,6-Dinitro-2-methylphenol	7600	U	7600	3900	ug/Kg	☼	03/29/16 16:12	03/30/16 10:37	20
4-Bromophenyl phenyl ether	3900	U	3900	550	ug/Kg	☼	03/29/16 16:12	03/30/16 10:37	20
4-Chloro-3-methylphenol	3900	U	3900	970	ug/Kg	☼	03/29/16 16:12	03/30/16 10:37	20
4-Chloroaniline	3900	U	3900	970	ug/Kg	☼	03/29/16 16:12	03/30/16 10:37	20
4-Chlorophenyl phenyl ether	3900	U	3900	480	ug/Kg	☼	03/29/16 16:12	03/30/16 10:37	20
4-Methylphenol	7600	U	7600	460	ug/Kg	☼	03/29/16 16:12	03/30/16 10:37	20
4-Nitroaniline	7600	U	7600	2100	ug/Kg	☼	03/29/16 16:12	03/30/16 10:37	20
4-Nitrophenol	7600	U	7600	2700	ug/Kg	☼	03/29/16 16:12	03/30/16 10:37	20
Acenaphthene	3900	U	3900	580	ug/Kg	☼	03/29/16 16:12	03/30/16 10:37	20
Acenaphthylene	3900	U	3900	510	ug/Kg	☼	03/29/16 16:12	03/30/16 10:37	20
Acetophenone	3900	U *	3900	530	ug/Kg	☼	03/29/16 16:12	03/30/16 10:37	20
Anthracene	3900	U	3900	970	ug/Kg	☼	03/29/16 16:12	03/30/16 10:37	20
Atrazine	3900	U	3900	1400	ug/Kg	☼	03/29/16 16:12	03/30/16 10:37	20
Benzaldehyde	3900	U *	3900	3100	ug/Kg	☼	03/29/16 16:12	03/30/16 10:37	20
Benzo[a]anthracene	1200	J	3900	390	ug/Kg	☼	03/29/16 16:12	03/30/16 10:37	20
Benzo[a]pyrene	1000	J	3900	580	ug/Kg	☼	03/29/16 16:12	03/30/16 10:37	20
Benzo[b]fluoranthene	1400	J	3900	620	ug/Kg	☼	03/29/16 16:12	03/30/16 10:37	20
Benzo[g,h,i]perylene	2100	J	3900	420	ug/Kg	☼	03/29/16 16:12	03/30/16 10:37	20
Benzo[k]fluoranthene	680	J	3900	510	ug/Kg	☼	03/29/16 16:12	03/30/16 10:37	20
Bis(2-chloroethoxy)methane	3900	U	3900	830	ug/Kg	☼	03/29/16 16:12	03/30/16 10:37	20
Bis(2-chloroethyl)ether	3900	U	3900	510	ug/Kg	☼	03/29/16 16:12	03/30/16 10:37	20
Bis(2-ethylhexyl) phthalate	3900	U	3900	1300	ug/Kg	☼	03/29/16 16:12	03/30/16 10:37	20
Butyl benzyl phthalate	3900	U	3900	650	ug/Kg	☼	03/29/16 16:12	03/30/16 10:37	20

TestAmerica Edison

Client Sample Results

Client: New York State D.E.C.
Project/Site: DEC Elmont546; Site: E130150

TestAmerica Job ID: 460-110715-1

Client Sample ID: C4

Date Collected: 03/18/16 12:20

Date Received: 03/18/16 17:30

Lab Sample ID: 460-110715-2

Matrix: Solid

Percent Solids: 84.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Caprolactam	3900	U	3900	1200	ug/Kg	☼	03/29/16 16:12	03/30/16 10:37	20
Carbazole	3900	U	3900	460	ug/Kg	☼	03/29/16 16:12	03/30/16 10:37	20
Chrysene	1300	J	3900	880	ug/Kg	☼	03/29/16 16:12	03/30/16 10:37	20
Dibenz(a,h)anthracene	1700	J	3900	690	ug/Kg	☼	03/29/16 16:12	03/30/16 10:37	20
Dibenzofuran	3900	U	3900	460	ug/Kg	☼	03/29/16 16:12	03/30/16 10:37	20
Diethyl phthalate	3900	U	3900	510	ug/Kg	☼	03/29/16 16:12	03/30/16 10:37	20
Dimethyl phthalate	3900	U	3900	460	ug/Kg	☼	03/29/16 16:12	03/30/16 10:37	20
Di-n-butyl phthalate	3900	U	3900	670	ug/Kg	☼	03/29/16 16:12	03/30/16 10:37	20
Di-n-octyl phthalate	3900	U	3900	460	ug/Kg	☼	03/29/16 16:12	03/30/16 10:37	20
Fluoranthene	2700	J	3900	420	ug/Kg	☼	03/29/16 16:12	03/30/16 10:37	20
Fluorene	3900	U	3900	460	ug/Kg	☼	03/29/16 16:12	03/30/16 10:37	20
Hexachlorobenzene	3900	U	3900	530	ug/Kg	☼	03/29/16 16:12	03/30/16 10:37	20
Hexachlorobutadiene	3900	U	3900	580	ug/Kg	☼	03/29/16 16:12	03/30/16 10:37	20
Hexachlorocyclopentadiene	3900	U	3900	530	ug/Kg	☼	03/29/16 16:12	03/30/16 10:37	20
Hexachloroethane	3900	U	3900	510	ug/Kg	☼	03/29/16 16:12	03/30/16 10:37	20
Indeno[1,2,3-cd]pyrene	2000	J	3900	480	ug/Kg	☼	03/29/16 16:12	03/30/16 10:37	20
Isophorone	3900	U	3900	830	ug/Kg	☼	03/29/16 16:12	03/30/16 10:37	20
Naphthalene	3900	U	3900	510	ug/Kg	☼	03/29/16 16:12	03/30/16 10:37	20
Nitrobenzene	3900	U	3900	440	ug/Kg	☼	03/29/16 16:12	03/30/16 10:37	20
N-Nitrosodi-n-propylamine	3900	U	3900	670	ug/Kg	☼	03/29/16 16:12	03/30/16 10:37	20
N-Nitrosodiphenylamine	3900	U	3900	3200	ug/Kg	☼	03/29/16 16:12	03/30/16 10:37	20
Pentachlorophenol	7600	U	7600	3900	ug/Kg	☼	03/29/16 16:12	03/30/16 10:37	20
Phenanthrene	2300	J	3900	580	ug/Kg	☼	03/29/16 16:12	03/30/16 10:37	20
Phenol	3900	U	3900	600	ug/Kg	☼	03/29/16 16:12	03/30/16 10:37	20
Pyrene	1900	J	3900	460	ug/Kg	☼	03/29/16 16:12	03/30/16 10:37	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	144		39 - 146	03/29/16 16:12	03/30/16 10:37	20
2-Fluorobiphenyl	67		37 - 120	03/29/16 16:12	03/30/16 10:37	20
2-Fluorophenol (Surr)	63		18 - 120	03/29/16 16:12	03/30/16 10:37	20
Nitrobenzene-d5 (Surr)	55		34 - 132	03/29/16 16:12	03/30/16 10:37	20
Phenol-d5 (Surr)	61		11 - 120	03/29/16 16:12	03/30/16 10:37	20
p-Terphenyl-d14 (Surr)	61	*	65 - 153	03/29/16 16:12	03/30/16 10:37	20

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	4230		38.5	19.8	mg/Kg	☼	03/27/16 20:57	03/29/16 20:34	4
Antimony	3.8	U	3.8	1.5	mg/Kg	☼	03/27/16 20:57	03/29/16 20:34	4
Arsenic	8.6		2.9	0.95	mg/Kg	☼	03/27/16 20:57	03/29/16 20:34	4
Barium	223		38.5	1.4	mg/Kg	☼	03/27/16 20:57	03/29/16 20:34	4
Beryllium	0.38	U	0.38	0.33	mg/Kg	☼	03/27/16 20:57	03/29/16 20:34	4
Cadmium	0.87		0.77	0.40	mg/Kg	☼	03/27/16 20:57	03/29/16 20:34	4
Calcium	1920		962	56.9	mg/Kg	☼	03/27/16 20:57	03/29/16 20:34	4
Chromium	17.1		1.9	0.93	mg/Kg	☼	03/27/16 20:57	03/29/16 20:34	4
Cobalt	5.3	J	9.6	1.1	mg/Kg	☼	03/27/16 20:57	03/29/16 20:34	4
Copper	34.8		4.8	1.3	mg/Kg	☼	03/27/16 20:57	03/29/16 20:34	4
Iron	25700		28.9	21.7	mg/Kg	☼	03/27/16 20:57	03/29/16 20:34	4
Lead	1170		1.9	0.75	mg/Kg	☼	03/27/16 20:57	03/29/16 20:34	4
Magnesium	1070		962	48.0	mg/Kg	☼	03/27/16 20:57	03/29/16 20:34	4
Manganese	224		2.9	1.0	mg/Kg	☼	03/27/16 20:57	03/29/16 20:34	4

TestAmerica Edison

Client Sample Results

Client: New York State D.E.C.
Project/Site: DEC Elmont546; Site: E130150

TestAmerica Job ID: 460-110715-1

Client Sample ID: C4

Date Collected: 03/18/16 12:20

Date Received: 03/18/16 17:30

Lab Sample ID: 460-110715-2

Matrix: Solid

Percent Solids: 84.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	20.9		7.7	1.4	mg/Kg	☼	03/27/16 20:57	03/29/16 20:34	4
Potassium	223	J	962	29.1	mg/Kg	☼	03/27/16 20:57	03/29/16 20:34	4
Selenium	3.8	U	3.8	1.3	mg/Kg	☼	03/27/16 20:57	03/29/16 20:34	4
Silver	0.70	J	1.9	0.34	mg/Kg	☼	03/27/16 20:57	03/29/16 20:34	4
Sodium	962	U	962	65.1	mg/Kg	☼	03/27/16 20:57	03/29/16 20:34	4
Thallium	3.8	U	3.8	1.7	mg/Kg	☼	03/27/16 20:57	03/29/16 20:34	4
Vanadium	12.1		9.6	0.96	mg/Kg	☼	03/27/16 20:57	03/29/16 20:34	4
Zinc	356		5.8	1.4	mg/Kg	☼	03/27/16 20:57	03/29/16 20:34	4

Surrogate Summary

Client: New York State D.E.C.
Project/Site: DEC Elmont546; Site: E130150

TestAmerica Job ID: 460-110715-1

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (39-146)	FBP (37-120)	2FP (18-120)	NBZ (34-132)	PHL (11-120)	TPH (65-153)
460-110715-1	C3	152 *	79	73	66	73	75
460-110715-1 MS	C3	161 *	88	79	73	78	86
460-110715-1 MSD	C3	160 *	80	72	64	72	74
460-110715-2	C4	144	67	63	55	61	61 *
LCS 480-293139/2-A	Lab Control Sample	72	77	61	65	67	86
MB 480-293139/1-A	Method Blank	54	91	69	75	79	99

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)

FBP = 2-Fluorobiphenyl

2FP = 2-Fluorophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

PHL = Phenol-d5 (Surr)

TPH = p-Terphenyl-d14 (Surr)

QC Sample Results

Client: New York State D.E.C.
Project/Site: DEC Elmont546; Site: E130150

TestAmerica Job ID: 460-110715-1

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

Lab Sample ID: MB 480-293139/1-A

Matrix: Solid

Analysis Batch: 293176

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 293139

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	170	U	170	25	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
1,2,4,5-Tetrachlorobenzene	170	U	170	29	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
2,2'-oxybis[1-chloropropane]	170	U	170	34	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
2,3,4,6-Tetrachlorophenol	170	U	170	35	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
2,4,5-Trichlorophenol	170	U	170	46	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
2,4,6-Trichlorophenol	170	U	170	34	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
2,4-Dichlorophenol	170	U	170	18	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
2,4-Dimethylphenol	170	U	170	41	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
2,4-Dinitrophenol	1700	U	1700	780	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
2,4-Dinitrotoluene	170	U	170	35	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
2,6-Dinitrotoluene	170	U	170	20	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
2-Chloronaphthalene	170	U	170	28	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
2-Chlorophenol	170	U	170	31	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
2-Methylnaphthalene	170	U	170	34	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
2-Methylphenol	170	U	170	20	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
2-Nitroaniline	330	U	330	25	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
2-Nitrophenol	170	U	170	48	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
3,3'-Dichlorobenzidine	330	U	330	200	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
3-Nitroaniline	330	U	330	47	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
4,6-Dinitro-2-methylphenol	330	U	330	170	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
4-Bromophenyl phenyl ether	170	U	170	24	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
4-Chloro-3-methylphenol	170	U	170	42	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
4-Chloroaniline	170	U	170	42	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
4-Chlorophenyl phenyl ether	170	U	170	21	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
4-Methylphenol	330	U	330	20	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
4-Nitroaniline	330	U	330	89	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
4-Nitrophenol	330	U	330	120	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
Acenaphthene	170	U	170	25	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
Acenaphthylene	170	U	170	22	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
Acetophenone	170	U	170	23	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
Anthracene	170	U	170	42	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
Atrazine	170	U	170	59	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
Benzaldehyde	170	U	170	130	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
Benzo[a]anthracene	170	U	170	17	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
Benzo[a]pyrene	170	U	170	25	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
Benzo[b]fluoranthene	170	U	170	27	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
Benzo[g,h,i]perylene	170	U	170	18	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
Benzo[k]fluoranthene	170	U	170	22	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
Bis(2-chloroethoxy)methane	170	U	170	36	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
Bis(2-chloroethyl)ether	170	U	170	22	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
Bis(2-ethylhexyl) phthalate	170	U	170	58	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
Butyl benzyl phthalate	170	U	170	28	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
Caprolactam	170	U	170	51	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
Carbazole	170	U	170	20	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
Chrysene	170	U	170	38	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
Dibenz(a,h)anthracene	170	U	170	30	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
Dibenzofuran	170	U	170	20	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
Diethyl phthalate	170	U	170	22	ug/Kg		03/29/16 16:12	03/30/16 08:24	1

TestAmerica Edison

QC Sample Results

Client: New York State D.E.C.
Project/Site: DEC Elmont546; Site: E130150

TestAmerica Job ID: 460-110715-1

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

Lab Sample ID: MB 480-293139/1-A

Matrix: Solid

Analysis Batch: 293176

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 293139

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	170	U	170	20	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
Di-n-butyl phthalate	170	U	170	29	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
Di-n-octyl phthalate	170	U	170	20	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
Fluoranthene	170	U	170	18	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
Fluorene	170	U	170	20	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
Hexachlorobenzene	170	U	170	23	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
Hexachlorobutadiene	170	U	170	25	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
Hexachlorocyclopentadiene	170	U	170	23	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
Hexachloroethane	170	U	170	22	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
Indeno[1,2,3-cd]pyrene	170	U	170	21	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
Isophorone	170	U	170	36	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
Naphthalene	170	U	170	22	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
Nitrobenzene	170	U	170	19	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
N-Nitrosodi-n-propylamine	170	U	170	29	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
N-Nitrosodiphenylamine	170	U	170	140	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
Pentachlorophenol	330	U	330	170	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
Phenanthrene	170	U	170	25	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
Phenol	170	U	170	26	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
Pyrene	170	U	170	20	ug/Kg		03/29/16 16:12	03/30/16 08:24	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	54		39 - 146	03/29/16 16:12	03/30/16 08:24	1
2-Fluorobiphenyl	91		37 - 120	03/29/16 16:12	03/30/16 08:24	1
2-Fluorophenol (Surr)	69		18 - 120	03/29/16 16:12	03/30/16 08:24	1
Nitrobenzene-d5 (Surr)	75		34 - 132	03/29/16 16:12	03/30/16 08:24	1
Phenol-d5 (Surr)	79		11 - 120	03/29/16 16:12	03/30/16 08:24	1
p-Terphenyl-d14 (Surr)	99		65 - 153	03/29/16 16:12	03/30/16 08:24	1

Lab Sample ID: LCS 480-293139/2-A

Matrix: Solid

Analysis Batch: 293176

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 293139

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1'-Biphenyl	1620	1210		ug/Kg		75	71 - 120
1,2,4,5-Tetrachlorobenzene	1620	1200		ug/Kg		74	59 - 125
2,2'-oxybis[1-chloropropane]	1620	1020		ug/Kg		63	44 - 120
2,3,4,6-Tetrachlorophenol	1620	987	*	ug/Kg		61	71 - 150
2,4,5-Trichlorophenol	1620	1000		ug/Kg		62	59 - 126
2,4,6-Trichlorophenol	1620	1090		ug/Kg		68	59 - 123
2,4-Dichlorophenol	1620	1020		ug/Kg		63	52 - 120
2,4-Dimethylphenol	1620	1120		ug/Kg		69	36 - 120
2,4-Dinitrophenol	3240	872	J *	ug/Kg		27	35 - 146
2,4-Dinitrotoluene	1620	1250		ug/Kg		77	55 - 125
2,6-Dinitrotoluene	1620	1300		ug/Kg		80	66 - 128
2-Chloronaphthalene	1620	1180		ug/Kg		73	57 - 120
2-Chlorophenol	1620	1000		ug/Kg		62	38 - 120
2-Methylnaphthalene	1620	1130		ug/Kg		70	47 - 120
2-Methylphenol	1620	1080		ug/Kg		67	48 - 120

TestAmerica Edison

QC Sample Results

Client: New York State D.E.C.
Project/Site: DEC Elmont546; Site: E130150

TestAmerica Job ID: 460-110715-1

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

Lab Sample ID: LCS 480-293139/2-A

Matrix: Solid

Analysis Batch: 293176

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 293139

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Nitroaniline	1620	1190		ug/Kg		74	61 - 130
2-Nitrophenol	1620	1070		ug/Kg		66	50 - 120
3,3'-Dichlorobenzidine	3240	2330		ug/Kg		72	48 - 126
3-Nitroaniline	1620	1030		ug/Kg		64	61 - 127
4,6-Dinitro-2-methylphenol	3240	1750		ug/Kg		54	49 - 155
4-Bromophenyl phenyl ether	1620	1330		ug/Kg		82	58 - 131
4-Chloro-3-methylphenol	1620	1140		ug/Kg		70	49 - 125
4-Chloroaniline	1620	801		ug/Kg		49	49 - 120
4-Chlorophenyl phenyl ether	1620	1240		ug/Kg		77	63 - 124
4-Methylphenol	1620	1080		ug/Kg		66	50 - 119
4-Nitroaniline	1620	1160		ug/Kg		71	63 - 128
4-Nitrophenol	3240	1870		ug/Kg		58	43 - 137
Acenaphthene	1620	1210		ug/Kg		75	53 - 120
Acenaphthylene	1620	1190		ug/Kg		74	58 - 121
Acetophenone	1620	1040	*	ug/Kg		64	66 - 120
Anthracene	1620	1260		ug/Kg		78	62 - 129
Atrazine	3240	2760		ug/Kg		85	60 - 164
Benzaldehyde	3240	4600	E *	ug/Kg		142	21 - 120
Benzo[a]anthracene	1620	1330		ug/Kg		82	65 - 133
Benzo[a]pyrene	1620	1350		ug/Kg		83	64 - 127
Benzo[b]fluoranthene	1620	1370		ug/Kg		85	64 - 135
Benzo[g,h,i]perylene	1620	1450		ug/Kg		89	50 - 152
Benzo[k]fluoranthene	1620	1330		ug/Kg		82	58 - 138
Bis(2-chloroethoxy)methane	1620	1130		ug/Kg		70	61 - 133
Bis(2-chloroethyl)ether	1620	1050		ug/Kg		65	45 - 120
Bis(2-ethylhexyl) phthalate	1620	1400		ug/Kg		87	61 - 133
Butyl benzyl phthalate	1620	1330		ug/Kg		82	61 - 129
Caprolactam	3240	1780		ug/Kg		55	54 - 133
Carbazole	1620	1260		ug/Kg		78	59 - 129
Chrysene	1620	1330		ug/Kg		82	64 - 131
Dibenz(a,h)anthracene	1620	1360		ug/Kg		84	54 - 148
Dibenzofuran	1620	1210		ug/Kg		75	56 - 120
Diethyl phthalate	1620	1240		ug/Kg		77	66 - 126
Dimethyl phthalate	1620	1230		ug/Kg		76	65 - 124
Di-n-butyl phthalate	1620	1290		ug/Kg		80	58 - 130
Di-n-octyl phthalate	1620	1270		ug/Kg		78	62 - 133
Fluoranthene	1620	1300		ug/Kg		80	62 - 131
Fluorene	1620	1220		ug/Kg		75	63 - 126
Hexachlorobenzene	1620	1360		ug/Kg		84	60 - 132
Hexachlorobutadiene	1620	1090		ug/Kg		67	45 - 120
Hexachlorocyclopentadiene	1620	1030		ug/Kg		64	31 - 120
Hexachloroethane	1620	953		ug/Kg		59	41 - 120
Indeno[1,2,3-cd]pyrene	1620	1360		ug/Kg		84	56 - 149
Isophorone	1620	1150		ug/Kg		71	56 - 120
Naphthalene	1620	1090		ug/Kg		67	46 - 120
Nitrobenzene	1620	1110		ug/Kg		68	49 - 120
N-Nitrosodi-n-propylamine	1620	1070		ug/Kg		66	46 - 120
N-Nitrosodiphenylamine	1620	1280		ug/Kg		79	20 - 119

TestAmerica Edison

QC Sample Results

Client: New York State D.E.C.
Project/Site: DEC Elmont546; Site: E130150

TestAmerica Job ID: 460-110715-1

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

Lab Sample ID: LCS 480-293139/2-A

Matrix: Solid

Analysis Batch: 293176

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 293139

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Pentachlorophenol	3240	1390		ug/Kg		43	33 - 136
Phenanthrene	1620	1260		ug/Kg		78	60 - 130
Phenol	1620	1050		ug/Kg		65	36 - 120
Pyrene	1620	1370		ug/Kg		85	51 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	72		39 - 146
2-Fluorobiphenyl	77		37 - 120
2-Fluorophenol (Surr)	61		18 - 120
Nitrobenzene-d5 (Surr)	65		34 - 132
Phenol-d5 (Surr)	67		11 - 120
p-Terphenyl-d14 (Surr)	86		65 - 153

Lab Sample ID: 460-110715-1 MS

Matrix: Solid

Analysis Batch: 293176

Client Sample ID: C3

Prep Type: Total/NA

Prep Batch: 293139

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1'-Biphenyl	3500	U	1730	1500	J	ug/Kg	☼	86	71 - 120
1,2,4,5-Tetrachlorobenzene	3500	U	1730	1470	J	ug/Kg	☼	85	59 - 111
2,2'-oxybis[1-chloropropane]	3500	U	1730	1400	J	ug/Kg	☼	81	44 - 120
2,3,4,6-Tetrachlorophenol	3500	U *	1730	2400	J	ug/Kg	☼	139	50 - 158
2,4,5-Trichlorophenol	3500	U	1730	2080	J	ug/Kg	☼	120	59 - 126
2,4,6-Trichlorophenol	3500	U	1730	2300	J *	ug/Kg	☼	133	59 - 123
2,4-Dichlorophenol	3500	U	1730	1320	J	ug/Kg	☼	76	52 - 120
2,4-Dimethylphenol	3500	U	1730	1250	J	ug/Kg	☼	72	36 - 120
2,4-Dinitrophenol	35000	U *	3470	35000	U	ug/Kg	☼	NC	35 - 146
2,4-Dinitrotoluene	3500	U	1730	2900	J *	ug/Kg	☼	167	55 - 125
2,6-Dinitrotoluene	3500	U	1730	2650	J *	ug/Kg	☼	153	66 - 128
2-Chloronaphthalene	3500	U	1730	1520	J	ug/Kg	☼	88	57 - 120
2-Chlorophenol	3500	U	1730	1280	J	ug/Kg	☼	74	38 - 120
2-Methylnaphthalene	3500	U	1730	1440	J	ug/Kg	☼	83	47 - 120
2-Methylphenol	3500	U	1730	1300	J	ug/Kg	☼	75	48 - 120
2-Nitroaniline	6900	U	1730	2650	J *	ug/Kg	☼	153	61 - 130
2-Nitrophenol	3500	U	1730	2590	J *	ug/Kg	☼	150	50 - 120
3,3'-Dichlorobenzidine	6900	U	3470	6900	U	ug/Kg	☼	NC	48 - 126
3-Nitroaniline	6900	U	1730	2490	J *	ug/Kg	☼	144	61 - 127
4,6-Dinitro-2-methylphenol	6900	U	3470	6700	J	ug/Kg	☼	NC	49 - 155
4-Bromophenyl phenyl ether	3500	U	1730	1350	J	ug/Kg	☼	78	58 - 131
4-Chloro-3-methylphenol	3500	U	1730	1210	J	ug/Kg	☼	70	49 - 125
4-Chloroaniline	3500	U	1730	876	J	ug/Kg	☼	50	49 - 120
4-Chlorophenyl phenyl ether	3500	U	1730	1440	J	ug/Kg	☼	83	63 - 124
4-Methylphenol	6900	U	1730	1250	J	ug/Kg	☼	72	50 - 119
4-Nitroaniline	6900	U	1730	2520	J	ug/Kg	☼	NC	63 - 128
4-Nitrophenol	6900	U	3470	4350	J	ug/Kg	☼	125	43 - 137
Acenaphthene	3500	U	1730	1650	J	ug/Kg	☼	95	53 - 120
Acenaphthylene	3500	U	1730	1430	J	ug/Kg	☼	82	58 - 121
Acetophenone	3500	U *	1730	1270	J	ug/Kg	☼	73	66 - 120

TestAmerica Edison

QC Sample Results

Client: New York State D.E.C.
Project/Site: DEC Elmont546; Site: E130150

TestAmerica Job ID: 460-110715-1

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

Lab Sample ID: 460-110715-1 MS

Matrix: Solid

Analysis Batch: 293176

Client Sample ID: C3

Prep Type: Total/NA

Prep Batch: 293139

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Anthracene	3500	U	1730	1630	J	ug/Kg	☀	94	62 - 129
Atrazine	3500	U	3470	2750	J	ug/Kg	☀	79	60 - 164
Benzaldehyde	3500	U *	3470	5580	*	ug/Kg	☀	161	21 - 120
Benzo[a]anthracene	1500	J	1730	2900	J	ug/Kg	☀	81	65 - 133
Benzo[a]pyrene	1300	J	1730	2720	J	ug/Kg	☀	82	64 - 127
Benzo[b]fluoranthene	1700	J	1730	3200	J	ug/Kg	☀	84	64 - 135
Benzo[g,h,i]perylene	2100	J	1730	3660		ug/Kg	☀	93	50 - 152
Benzo[k]fluoranthene	610	J	1730	2200	J	ug/Kg	☀	92	58 - 138
Bis(2-chloroethoxy)methane	3500	U	1730	1360	J	ug/Kg	☀	79	61 - 133
Bis(2-chloroethyl)ether	3500	U	1730	1390	J	ug/Kg	☀	80	45 - 120
Bis(2-ethylhexyl) phthalate	3500	U	1730	1460	J	ug/Kg	☀	84	61 - 133
Butyl benzyl phthalate	3500	U	1730	2280	J *	ug/Kg	☀	132	61 - 129
Caprolactam	3500	U	3470	3040	J	ug/Kg	☀	88	54 - 133
Carbazole	3500	U	1730	1600	J	ug/Kg	☀	92	59 - 129
Chrysene	1700	J	1730	3300	J	ug/Kg	☀	95	64 - 131
Dibenz(a,h)anthracene	1600	J	1730	3000	J	ug/Kg	☀	80	54 - 148
Dibenzofuran	3500	U	1730	1600	J	ug/Kg	☀	92	56 - 120
Diethyl phthalate	3500	U	1730	1320	J	ug/Kg	☀	76	66 - 126
Dimethyl phthalate	3500	U	1730	1400	J	ug/Kg	☀	81	65 - 124
Di-n-butyl phthalate	3500	U	1730	1280	J	ug/Kg	☀	74	58 - 130
Di-n-octyl phthalate	3500	U	1730	2680	J *	ug/Kg	☀	154	62 - 133
Fluoranthene	3200	J	1730	4440		ug/Kg	☀	70	62 - 131
Fluorene	3500	U	1730	1510	J	ug/Kg	☀	87	63 - 126
Hexachlorobenzene	3500	U	1730	1490	J	ug/Kg	☀	86	60 - 132
Hexachlorobutadiene	3500	U	1730	1490	J	ug/Kg	☀	86	45 - 120
Hexachlorocyclopentadiene	3500	U	1730	1820	J	ug/Kg	☀	105	31 - 120
Hexachloroethane	3500	U	1730	1200	J	ug/Kg	☀	69	41 - 120
Indeno[1,2,3-cd]pyrene	2000	J	1730	3490	J	ug/Kg	☀	87	56 - 149
Isophorone	3500	U	1730	1200	J	ug/Kg	☀	69	56 - 120
Naphthalene	3500	U	1730	1500	J	ug/Kg	☀	87	46 - 120
Nitrobenzene	3500	U	1730	1270	J	ug/Kg	☀	73	49 - 120
N-Nitrosodi-n-propylamine	3500	U	1730	1230	J	ug/Kg	☀	71	46 - 120
N-Nitrosodiphenylamine	3500	U	1730	3500	U	ug/Kg	☀	NC	20 - 119
Pentachlorophenol	6900	U	3470	4800	J	ug/Kg	☀	NC	33 - 136
Phenanthrene	2300	J	1730	3270	J *	ug/Kg	☀	55	60 - 130
Phenol	3500	U	1730	1350	J	ug/Kg	☀	78	36 - 120
Pyrene	2400	J	1730	3820		ug/Kg	☀	79	51 - 133

Surrogate	MS %Recovery	MS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	161	*	39 - 146
2-Fluorobiphenyl	88		37 - 120
2-Fluorophenol (Surr)	79		18 - 120
Nitrobenzene-d5 (Surr)	73		34 - 132
Phenol-d5 (Surr)	78		11 - 120
p-Terphenyl-d14 (Surr)	86		65 - 153

QC Sample Results

Client: New York State D.E.C.
Project/Site: DEC Elmont546; Site: E130150

TestAmerica Job ID: 460-110715-1

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

Lab Sample ID: 460-110715-1 MSD

Matrix: Solid

Analysis Batch: 293176

Client Sample ID: C3

Prep Type: Total/NA

Prep Batch: 293139

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD	Limit
1,1'-Biphenyl	3500	U	2720	2200	J *	ug/Kg	☼	81	71 - 120	38	20
1,2,4,5-Tetrachlorobenzene	3500	U	2720	2020	J *	ug/Kg	☼	74	59 - 111	31	21
2,2'-oxybis[1-chloropropane]	3500	U	2720	1960	J *	ug/Kg	☼	72	44 - 120	33	24
2,3,4,6-Tetrachlorophenol	3500	U *	2720	3690	J *	ug/Kg	☼	136	50 - 158	42	33
2,4,5-Trichlorophenol	3500	U	2720	3230	J *	ug/Kg	☼	119	59 - 126	43	18
2,4,6-Trichlorophenol	3500	U	2720	3380	J *	ug/Kg	☼	124	59 - 123	38	19
2,4-Dichlorophenol	3500	U	2720	2000	J *	ug/Kg	☼	73	52 - 120	41	19
2,4-Dimethylphenol	3500	U	2720	1790	J	ug/Kg	☼	66	36 - 120	35	42
2,4-Dinitrophenol	35000	U *	5450	54000	U	ug/Kg	☼	NC	35 - 146	NC	22
2,4-Dinitrotoluene	3500	U	2720	4380	J *	ug/Kg	☼	161	55 - 125	41	20
2,6-Dinitrotoluene	3500	U	2720	4030	J *	ug/Kg	☼	148	66 - 128	41	15
2-Chloronaphthalene	3500	U	2720	2140	J *	ug/Kg	☼	79	57 - 120	34	21
2-Chlorophenol	3500	U	2720	1930	J *	ug/Kg	☼	71	38 - 120	41	25
2-Methylnaphthalene	3500	U	2720	2070	J *	ug/Kg	☼	76	47 - 120	36	21
2-Methylphenol	3500	U	2720	1800	J *	ug/Kg	☼	66	48 - 120	32	27
2-Nitroaniline	6900	U	2720	3860	J *	ug/Kg	☼	142	61 - 130	37	15
2-Nitrophenol	3500	U	2720	4030	J *	ug/Kg	☼	148	50 - 120	43	18
3,3'-Dichlorobenzidine	6900	U	5450	11000	U	ug/Kg	☼	NC	48 - 126	NC	25
3-Nitroaniline	6900	U	2720	11000	U *	ug/Kg	☼	0	61 - 127	NC	19
4,6-Dinitro-2-methylphenol	6900	U	5450	10400	J *	ug/Kg	☼	NC	49 - 155	43	15
4-Bromophenyl phenyl ether	3500	U	2720	2260	J *	ug/Kg	☼	83	58 - 131	50	15
4-Chloro-3-methylphenol	3500	U	2720	1800	J *	ug/Kg	☼	66	49 - 125	39	27
4-Chloroaniline	3500	U	2720	5600	U *	ug/Kg	☼	0	49 - 120	NC	22
4-Chlorophenyl phenyl ether	3500	U	2720	2100	J *	ug/Kg	☼	77	63 - 124	38	16
4-Methylphenol	6900	U	2720	1780	J *	ug/Kg	☼	65	50 - 119	36	24
4-Nitroaniline	6900	U	2720	3940	J *	ug/Kg	☼	NC	63 - 128	44	24
4-Nitrophenol	6900	U	5450	11000	U *	ug/Kg	☼	0	43 - 137	NC	25
Acenaphthene	3500	U	2720	2160	J	ug/Kg	☼	79	53 - 120	27	35
Acenaphthylene	3500	U	2720	1990	J *	ug/Kg	☼	73	58 - 121	33	18
Acetophenone	3500	U *	2720	1860	J *	ug/Kg	☼	68	66 - 120	38	20
Anthracene	3500	U	2720	2230	J *	ug/Kg	☼	82	62 - 129	31	15
Atrazine	3500	U	5450	4360	J *	ug/Kg	☼	80	60 - 164	45	20
Benzaldehyde	3500	U *	5450	8270	*	ug/Kg	☼	152	21 - 120	39	20
Benzo[a]anthracene	1500	J	2720	3580	J *	ug/Kg	☼	77	65 - 133	21	15
Benzo[a]pyrene	1300	J	2720	3270	J *	ug/Kg	☼	73	64 - 127	18	15
Benzo[b]fluoranthene	1700	J	2720	3520	J	ug/Kg	☼	65	64 - 135	10	15
Benzo[g,h,i]perylene	2100	J	2720	4820	J *	ug/Kg	☼	102	50 - 152	27	15
Benzo[k]fluoranthene	610	J	2720	2740	J	ug/Kg	☼	78	58 - 138	22	22
Bis(2-chloroethoxy)methane	3500	U	2720	2060	J *	ug/Kg	☼	76	61 - 133	41	17
Bis(2-chloroethyl)ether	3500	U	2720	1930	J *	ug/Kg	☼	71	45 - 120	33	21
Bis(2-ethylhexyl) phthalate	3500	U	2720	2190	J *	ug/Kg	☼	81	61 - 133	40	15
Butyl benzyl phthalate	3500	U	2720	3480	J *	ug/Kg	☼	128	61 - 129	42	16
Caprolactam	3500	U	5450	5010	J *	ug/Kg	☼	92	54 - 133	49	20
Carbazole	3500	U	2720	2140	J *	ug/Kg	☼	79	59 - 129	29	20
Chrysene	1700	J	2720	3760	J	ug/Kg	☼	77	64 - 131	13	15
Dibenz(a,h)anthracene	1600	J	2720	4310	J *	ug/Kg	☼	99	54 - 148	36	15
Dibenzofuran	3500	U	2720	2200	J *	ug/Kg	☼	81	56 - 120	32	15
Diethyl phthalate	3500	U	2720	1870	J *	ug/Kg	☼	69	66 - 126	34	15

TestAmerica Edison

QC Sample Results

Client: New York State D.E.C.
Project/Site: DEC Elmont546; Site: E130150

TestAmerica Job ID: 460-110715-1

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

Lab Sample ID: 460-110715-1 MSD

Matrix: Solid

Analysis Batch: 293176

Client Sample ID: C3

Prep Type: Total/NA

Prep Batch: 293139

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dimethyl phthalate	3500	U	2720	1940	J *	ug/Kg	☀	71	65 - 124	32	15
Di-n-butyl phthalate	3500	U	2720	1800	J *	ug/Kg	☀	66	58 - 130	34	15
Di-n-octyl phthalate	3500	U	2720	4070	J *	ug/Kg	☀	149	62 - 133	41	16
Fluoranthene	3200	J	2720	4650	J *	ug/Kg	☀	52	62 - 131	5	15
Fluorene	3500	U	2720	2230	J *	ug/Kg	☀	82	63 - 126	38	15
Hexachlorobenzene	3500	U	2720	2270	J *	ug/Kg	☀	83	60 - 132	41	15
Hexachlorobutadiene	3500	U	2720	1880	J	ug/Kg	☀	69	45 - 120	23	44
Hexachlorocyclopentadiene	3500	U	2720	2670	J	ug/Kg	☀	98	31 - 120	38	49
Hexachloroethane	3500	U	2720	1560	J	ug/Kg	☀	57	41 - 120	26	46
Indeno[1,2,3-cd]pyrene	2000	J	2720	4630	J *	ug/Kg	☀	97	56 - 149	28	15
Isophorone	3500	U	2720	1840	J *	ug/Kg	☀	68	56 - 120	42	17
Naphthalene	3500	U	2720	2120	J *	ug/Kg	☀	78	46 - 120	34	29
Nitrobenzene	3500	U	2720	1880	J *	ug/Kg	☀	69	49 - 120	39	24
N-Nitrosodi-n-propylamine	3500	U	2720	1570	J	ug/Kg	☀	58	46 - 120	24	31
N-Nitrosodiphenylamine	3500	U	2720	5600	U	ug/Kg	☀	NC	20 - 119	NC	15
Pentachlorophenol	6900	U	5450	7350	J *	ug/Kg	☀	NC	33 - 136	42	35
Phenanthrene	2300	J	2720	3930	J *	ug/Kg	☀	59	60 - 130	18	15
Phenol	3500	U	2720	1950	J *	ug/Kg	☀	72	36 - 120	37	35
Pyrene	2400	J	2720	4160	J	ug/Kg	☀	63	51 - 133	9	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	160	*	39 - 146
2-Fluorobiphenyl	80		37 - 120
2-Fluorophenol (Surr)	72		18 - 120
Nitrobenzene-d5 (Surr)	64		34 - 132
Phenol-d5 (Surr)	72		11 - 120
p-Terphenyl-d14 (Surr)	74		65 - 153

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 460-359060/1-A ^2

Matrix: Solid

Analysis Batch: 359578

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 359060

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	20.0	U	20.0	10.3	mg/Kg		03/27/16 20:57	03/29/16 18:36	2
Antimony	2.0	U	2.0	0.79	mg/Kg		03/27/16 20:57	03/29/16 18:36	2
Arsenic	1.5	U	1.5	0.49	mg/Kg		03/27/16 20:57	03/29/16 18:36	2
Barium	20.0	U	20.0	0.72	mg/Kg		03/27/16 20:57	03/29/16 18:36	2
Beryllium	0.20	U	0.20	0.17	mg/Kg		03/27/16 20:57	03/29/16 18:36	2
Cadmium	0.40	U	0.40	0.21	mg/Kg		03/27/16 20:57	03/29/16 18:36	2
Calcium	500	U	500	29.6	mg/Kg		03/27/16 20:57	03/29/16 18:36	2
Chromium	1.0	U	1.0	0.48	mg/Kg		03/27/16 20:57	03/29/16 18:36	2
Cobalt	5.0	U	5.0	0.58	mg/Kg		03/27/16 20:57	03/29/16 18:36	2
Copper	2.5	U	2.5	0.65	mg/Kg		03/27/16 20:57	03/29/16 18:36	2
Iron	15.0	U	15.0	11.3	mg/Kg		03/27/16 20:57	03/29/16 18:36	2
Lead	1.0	U	1.0	0.39	mg/Kg		03/27/16 20:57	03/29/16 18:36	2
Magnesium	500	U	500	25.0	mg/Kg		03/27/16 20:57	03/29/16 18:36	2

TestAmerica Edison

QC Sample Results

Client: New York State D.E.C.
Project/Site: DEC Elmont546; Site: E130150

TestAmerica Job ID: 460-110715-1

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

Lab Sample ID: MB 460-359060/1-A ^2

Matrix: Solid

Analysis Batch: 359578

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 359060

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.5	U	1.5	0.53	mg/Kg		03/27/16 20:57	03/29/16 18:36	2
Nickel	4.0	U	4.0	0.73	mg/Kg		03/27/16 20:57	03/29/16 18:36	2
Potassium	500	U	500	15.2	mg/Kg		03/27/16 20:57	03/29/16 18:36	2
Selenium	2.0	U	2.0	0.69	mg/Kg		03/27/16 20:57	03/29/16 18:36	2
Silver	1.0	U	1.0	0.18	mg/Kg		03/27/16 20:57	03/29/16 18:36	2
Sodium	500	U	500	33.9	mg/Kg		03/27/16 20:57	03/29/16 18:36	2
Thallium	2.0	U	2.0	0.89	mg/Kg		03/27/16 20:57	03/29/16 18:36	2
Vanadium	5.0	U	5.0	0.50	mg/Kg		03/27/16 20:57	03/29/16 18:36	2
Zinc	3.0	U	3.0	0.73	mg/Kg		03/27/16 20:57	03/29/16 18:36	2

Lab Sample ID: LCSSRM 460-359060/2-A

Matrix: Solid

Analysis Batch: 359578

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 359060

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	7930	6937		mg/Kg		87.5	50.2 - 150.1
Antimony	105	54.12		mg/Kg		51.5	0.1 - 201.0
Arsenic	98.5	91.69		mg/Kg		93.1	77.8 - 122.8
Barium	308	301.8		mg/Kg		98.0	82.5 - 117.5
Beryllium	66.0	64.41		mg/Kg		97.6	83.0 - 116.8
Cadmium	146	140.9		mg/Kg		96.5	82.9 - 117.8
Calcium	6610	6182		mg/Kg		93.5	83.7 - 116.2
Chromium	182	179.5		mg/Kg		98.6	79.7 - 120.3
Cobalt	162	161.5		mg/Kg		99.7	83.3 - 116.0
Copper	106	100.2		mg/Kg		94.5	81.5 - 118.9
Iron	14400	13810		mg/Kg		95.9	44.1 - 155.6
Lead	130	128.3		mg/Kg		98.7	82.3 - 117.7
Magnesium	2640	2408		mg/Kg		91.2	75.8 - 124.6
Manganese	410	400.0		mg/Kg		97.6	81.2 - 119.0
Nickel	149	150.3		mg/Kg		100.9	82.6 - 117.4
Potassium	2550	2290		mg/Kg		89.8	69.0 - 130.6
Selenium	154	142.8		mg/Kg		92.7	77.9 - 122.1
Silver	40.9	37.88		mg/Kg		92.6	75.1 - 124.7
Sodium	2480	2288		mg/Kg		92.3	70.6 - 129.0

TestAmerica Edison

QC Sample Results

Client: New York State D.E.C.
Project/Site: DEC Elmont546; Site: E130150

TestAmerica Job ID: 460-110715-1

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

Lab Sample ID: LCSSRM 460-359060/2-A

Matrix: Solid

Analysis Batch: 359578

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 359060

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Thallium	175	178.6		mg/Kg		102.1	78.3 - 121.1
Vanadium	96.7	92.73		mg/Kg		95.9	77.2 - 123.1
Zinc	191	185.2		mg/Kg		97.0	83.2 - 116.8

Lab Sample ID: 460-110715-1 MS

Matrix: Solid

Analysis Batch: 359578

Client Sample ID: C3

Prep Type: Total/NA

Prep Batch: 359060

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	3800		172	5697	4	mg/Kg	☼	1098	75 - 125
Antimony	3.3	U	43.1	27.37	N	mg/Kg	☼	64	75 - 125
Arsenic	3.8		172	162.4		mg/Kg	☼	92	75 - 125
Barium	307		172	986.2	N	mg/Kg	☼	394	75 - 125
Beryllium	0.33	U	4.31	4.78		mg/Kg	☼	111	75 - 125
Cadmium	0.93		4.31	5.38		mg/Kg	☼	103	75 - 125
Calcium	654	J	1720	2790		mg/Kg	☼	124	75 - 125
Chromium	11.4		17.2	31.36		mg/Kg	☼	116	75 - 125
Cobalt	3.8	J	43.1	48.63		mg/Kg	☼	104	75 - 125
Copper	31.7		21.5	60.02	N	mg/Kg	☼	131	75 - 125
Iron	17800		86.2	18870	4	mg/Kg	☼	1218	75 - 125
Lead	1520		43.1	1394	4	mg/Kg	☼	-291	75 - 125
Magnesium	715	J	1720	2847		mg/Kg	☼	124	75 - 125
Manganese	239		43.1	264.2	4	mg/Kg	☼	59	75 - 125
Nickel	14.7		43.1	62.12		mg/Kg	☼	110	75 - 125
Potassium	305	J	1720	2364		mg/Kg	☼	119	75 - 125
Selenium	3.3	U	172	160.9		mg/Kg	☼	93	75 - 125
Silver	0.32	J	4.31	4.46		mg/Kg	☼	96	75 - 125
Sodium	834	U	1720	1692		mg/Kg	☼	98	75 - 125
Thallium	3.3	U	172	175.3		mg/Kg	☼	102	75 - 125
Vanadium	9.5		43.1	56.61		mg/Kg	☼	109	75 - 125
Zinc	514		43.1	634.5	4	mg/Kg	☼	280	75 - 125

Lab Sample ID: 460-110715-1 DU

Matrix: Solid

Analysis Batch: 359578

Client Sample ID: C3

Prep Type: Total/NA

Prep Batch: 359060

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Aluminum	3800		3991		mg/Kg	☼	5	20
Antimony	3.3	U	3.5	U	mg/Kg	☼	NC	20
Arsenic	3.8		3.49		mg/Kg	☼	8	20
Barium	307		323.9		mg/Kg	☼	5	20
Beryllium	0.33	U	0.35	U	mg/Kg	☼	NC	20
Cadmium	0.93		0.949		mg/Kg	☼	2	20
Calcium	654	J	688.4	J	mg/Kg	☼	5	20
Chromium	11.4		11.89		mg/Kg	☼	4	20
Cobalt	3.8	J	3.92	J	mg/Kg	☼	4	20

TestAmerica Edison

QC Sample Results

Client: New York State D.E.C.
Project/Site: DEC Elmont546; Site: E130150

TestAmerica Job ID: 460-110715-1

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

Lab Sample ID: 460-110715-1 DU

Matrix: Solid

Analysis Batch: 359578

Client Sample ID: C3

Prep Type: Total/NA

Prep Batch: 359060

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Copper	31.7		33.31		mg/Kg	☼	5	20
Iron	17800		18820		mg/Kg	☼	5	20
Lead	1520		1605		mg/Kg	☼	6	20
Magnesium	715	J	755.1	J	mg/Kg	☼	5	20
Manganese	239		250.7		mg/Kg	☼	5	20
Nickel	14.7		15.47		mg/Kg	☼	5	20
Potassium	305	J	315.9	J	mg/Kg	☼	3	20
Selenium	3.3	U	3.5	U	mg/Kg	☼	NC	20
Silver	0.32	J	0.381	J	mg/Kg	☼	17	20
Sodium	834	U	869	U	mg/Kg	☼	NC	20
Thallium	3.3	U	3.5	U	mg/Kg	☼	NC	20
Vanadium	9.5		9.92		mg/Kg	☼	5	20
Zinc	514		544.7		mg/Kg	☼	6	20

Definitions/Glossary

Client: New York State D.E.C.
Project/Site: DEC Elmont546; Site: E130150

TestAmerica Job ID: 460-110715-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
U	Analyzed for but not detected.
*	LCS or LCSD is outside acceptance limits.
*	Surrogate is outside acceptance limits.
J	Indicates an estimated value.
*	MS or MSD is outside acceptance limits.
*	Duplicate RPD exceeds control limits
E	Compound concentration exceeds the upper level of the calibration range of the instrument for that specific analysis.

Metals

Qualifier	Qualifier Description
U	Indicates analyzed for but not detected.
J	Sample result is greater than the MDL but below the CRDL
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
N	Spiked sample recovery is not within control limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: New York State D.E.C.
Project/Site: DEC Elmont546; Site: E130150

TestAmerica Job ID: 460-110715-1

GC/MS Semi VOA

Prep Batch: 293139

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-110715-1	C3	Total/NA	Solid	3546	
460-110715-1 MS	C3	Total/NA	Solid	3546	
460-110715-1 MSD	C3	Total/NA	Solid	3546	
460-110715-2	C4	Total/NA	Solid	3546	
LCS 480-293139/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 480-293139/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 293176

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-110715-1	C3	Total/NA	Solid	8270D	293139
460-110715-1 MS	C3	Total/NA	Solid	8270D	293139
460-110715-1 MSD	C3	Total/NA	Solid	8270D	293139
460-110715-2	C4	Total/NA	Solid	8270D	293139
LCS 480-293139/2-A	Lab Control Sample	Total/NA	Solid	8270D	293139
MB 480-293139/1-A	Method Blank	Total/NA	Solid	8270D	293139

Metals

Prep Batch: 359060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-110715-1	C3	Total/NA	Solid	3050B	
460-110715-1 DU	C3	Total/NA	Solid	3050B	
460-110715-1 MS	C3	Total/NA	Solid	3050B	
460-110715-1 PDS	C3	Total/NA	Solid	3050B	
460-110715-1 SD	C3	Total/NA	Solid	3050B	
460-110715-2	C4	Total/NA	Solid	3050B	
LCSSRM 460-359060/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 460-359060/1-A ^2	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 359578

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-110715-1	C3	Total/NA	Solid	6010C	359060
460-110715-1 DU	C3	Total/NA	Solid	6010C	359060
460-110715-1 MS	C3	Total/NA	Solid	6010C	359060
460-110715-1 PDS	C3	Total/NA	Solid	6010C	359060
460-110715-1 SD	C3	Total/NA	Solid	6010C	359060
460-110715-2	C4	Total/NA	Solid	6010C	359060
ICSA 460-359578/10	ICS		Solid	6010C	
ICSAB 460-359578/11	ICS		Solid	6010C	
LCSSRM 460-359060/2-A	Lab Control Sample	Total/NA	Solid	6010C	359060
MB 460-359060/1-A ^2	Method Blank	Total/NA	Solid	6010C	359060

General Chemistry

Analysis Batch: 358488

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-110582-C-1 DU	Duplicate	Total/NA	Solid	Moisture	
460-110715-1	C3	Total/NA	Solid	Moisture	
460-110715-2	C4	Total/NA	Solid	Moisture	

Lab Chronicle

Client: New York State D.E.C.
Project/Site: DEC Elmont546; Site: E130150

TestAmerica Job ID: 460-110715-1

Client Sample ID: C3

Date Collected: 03/18/16 12:15

Date Received: 03/18/16 17:30

Lab Sample ID: 460-110715-1

Matrix: Solid

Percent Solids: 95.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			293139	03/29/16 16:12	AVW	TAL BUF
Total/NA	Analysis	8270D		20	293176	03/30/16 10:10	DMR	TAL BUF
Total/NA	Prep	3050B			359060	03/27/16 20:57	EAE	TAL EDI
Total/NA	Analysis	6010C		4	359578	03/29/16 18:48	YZH	TAL EDI
Total/NA	Analysis	Moisture		1	358488	03/24/16 18:48	JDH	TAL EDI

Client Sample ID: C4

Date Collected: 03/18/16 12:20

Date Received: 03/18/16 17:30

Lab Sample ID: 460-110715-2

Matrix: Solid

Percent Solids: 84.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			293139	03/29/16 16:12	AVW	TAL BUF
Total/NA	Analysis	8270D		20	293176	03/30/16 10:37	DMR	TAL BUF
Total/NA	Prep	3050B			359060	03/27/16 20:57	EAE	TAL EDI
Total/NA	Analysis	6010C		4	359578	03/29/16 20:34	YZH	TAL EDI
Total/NA	Analysis	Moisture		1	358488	03/24/16 18:48	JDH	TAL EDI

Laboratory References:

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

TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Certification Summary

Client: New York State D.E.C.
Project/Site: DEC Elmont546; Site: E130150

TestAmerica Job ID: 460-110715-1

Laboratory: TestAmerica Edison

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

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	11452	03-31-17

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

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

Laboratory: TestAmerica Buffalo

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-16
California	State Program	9	1169CA	09-30-17
Connecticut	State Program	1	PH-0568	09-30-16
Florida	NELAP	4	E87672	06-30-16
Georgia	State Program	4	N/A	03-31-17
Illinois	NELAP	5	200003	09-30-16
Iowa	State Program	7	374	03-01-17
Kansas	NELAP	7	E-10187	05-31-16 *
Kentucky (DW)	State Program	4	90029	12-31-16
Kentucky (UST)	State Program	4	30	03-31-17
Kentucky (WW)	State Program	4	90029	12-31-16
Louisiana	NELAP	6	02031	06-30-16
Maine	State Program	1	NY00044	12-04-16
Maryland	State Program	3	294	03-31-17
Massachusetts	State Program	1	M-NY044	06-30-16
Michigan	State Program	5	9937	03-31-16 *
Minnesota	NELAP	5	036-999-337	12-31-16
New Hampshire	NELAP Secondary AB	1	2337	11-17-16
New Jersey	NELAP	2	NY455	06-30-16
New York	NELAP	2	10026	03-31-17
North Dakota	State Program	8	R-176	03-31-17
Oklahoma	State Program	6	9421	08-31-16
Oregon	NELAP	10	NY200003	06-09-16
Pennsylvania	NELAP	3	68-00281	07-31-16
Rhode Island	State Program	1	LAO00328	12-30-16
Tennessee	State Program	4	TN02970	03-31-17
Texas	NELAP	6	T104704412-15-6	07-31-16
USDA	Federal		P330-11-00386	11-26-17
Virginia	NELAP	3	460185	09-14-16
Washington	State Program	10	C784	02-10-17
West Virginia DEP	State Program	3	252	09-30-16
Wisconsin	State Program	5	998310390	08-31-16

* Certification renewal pending - certification considered valid.

TestAmerica Edison

8270D

Semivolatile Organic Compounds
(GC/MS)

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 460-110715-1
 SDG No.: _____
 Matrix: Solid Level: Low
 GC Column (1): RXI-5Sil MS ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	2FP #	PHL #	NBZ #	FBP #	TBP #	TPH #
C3	460-110715-1	73	73	66	79	152 *	75
C4	460-110715-2	63	61	55	67	144	61 *
	MB 480-293139/1-A	69	79	75	91	54	99
	LCS 480-293139/2-A	61	67	65	77	72	86
C3 MS	460-110715-1 MS	79	78	73	88	161 *	86
C3 MSD	460-110715-1 MSD	72	72	64	80	160 *	74

	<u>QC LIMITS</u>
2FP = 2-Fluorophenol (Surr)	18-120
PHL = Phenol-d5 (Surr)	11-120
NBZ = Nitrobenzene-d5 (Surr)	34-132
FBP = 2-Fluorobiphenyl	37-120
TBP = 2,4,6-Tribromophenol (Surr)	39-146
TPH = p-Terphenyl-d14 (Surr)	65-153

Column to be used to flag recovery values

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 460-110715-1
 SDG No.: _____
 Matrix: Solid Level: Low Lab File ID: U25864.D
 Lab ID: LCS 480-293139/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,1'-Biphenyl	1620	1210	75	71-120	
1,2,4,5-Tetrachlorobenzene	1620	1200	74	59-125	
2,2'-oxybis[1-chloropropane]	1620	1020	63	44-120	
2,3,4,6-Tetrachlorophenol	1620	987	61	71-150	*
2,4,5-Trichlorophenol	1620	1000	62	59-126	
2,4,6-Trichlorophenol	1620	1090	68	59-123	
2,4-Dichlorophenol	1620	1020	63	52-120	
2,4-Dimethylphenol	1620	1120	69	36-120	
2,4-Dinitrophenol	3240	872 J	27	35-146	*
2,4-Dinitrotoluene	1620	1250	77	55-125	
2,6-Dinitrotoluene	1620	1300	80	66-128	
2-Chloronaphthalene	1620	1180	73	57-120	
2-Chlorophenol	1620	1000	62	38-120	
2-Methylnaphthalene	1620	1130	70	47-120	
2-Methylphenol	1620	1080	67	48-120	
2-Nitroaniline	1620	1190	74	61-130	
2-Nitrophenol	1620	1070	66	50-120	
3,3'-Dichlorobenzidine	3240	2330	72	48-126	
3-Nitroaniline	1620	1030	64	61-127	
4,6-Dinitro-2-methylphenol	3240	1750	54	49-155	
4-Bromophenyl phenyl ether	1620	1330	82	58-131	
4-Chloro-3-methylphenol	1620	1140	70	49-125	
4-Chloroaniline	1620	801	49	49-120	
4-Chlorophenyl phenyl ether	1620	1240	77	63-124	
4-Methylphenol	1620	1080	66	50-119	
4-Nitroaniline	1620	1160	71	63-128	
4-Nitrophenol	3240	1870	58	43-137	
Acenaphthene	1620	1210	75	53-120	
Acenaphthylene	1620	1190	74	58-121	
Acetophenone	1620	1040	64	66-120	*
Anthracene	1620	1260	78	62-129	
Atrazine	3240	2760	85	60-164	
Benzaldehyde	3240	4600	142	21-120	E *
Benzo[a]anthracene	1620	1330	82	65-133	
Benzo[a]pyrene	1620	1350	83	64-127	
Benzo[b]fluoranthene	1620	1370	85	64-135	
Benzo[g,h,i]perylene	1620	1450	89	50-152	
Benzo[k]fluoranthene	1620	1330	82	58-138	
Bis(2-chloroethoxy)methane	1620	1130	70	61-133	
Bis(2-chloroethyl)ether	1620	1050	65	45-120	
Bis(2-ethylhexyl) phthalate	1620	1400	87	61-133	
Butyl benzyl phthalate	1620	1330	82	61-129	

Column to be used to flag recovery and RPD values

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 460-110715-1
 SDG No.: _____
 Matrix: Solid Level: Low Lab File ID: U25864.D
 Lab ID: LCS 480-293139/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Caprolactam	3240	1780	55	54-133	
Carbazole	1620	1260	78	59-129	
Chrysene	1620	1330	82	64-131	
Dibenz (a,h) anthracene	1620	1360	84	54-148	
Dibenzofuran	1620	1210	75	56-120	
Diethyl phthalate	1620	1240	77	66-126	
Dimethyl phthalate	1620	1230	76	65-124	
Di-n-butyl phthalate	1620	1290	80	58-130	
Di-n-octyl phthalate	1620	1270	78	62-133	
Fluoranthene	1620	1300	80	62-131	
Fluorene	1620	1220	75	63-126	
Hexachlorobenzene	1620	1360	84	60-132	
Hexachlorobutadiene	1620	1090	67	45-120	
Hexachlorocyclopentadiene	1620	1030	64	31-120	
Hexachloroethane	1620	953	59	41-120	
Indeno[1,2,3-cd]pyrene	1620	1360	84	56-149	
Isophorone	1620	1150	71	56-120	
Naphthalene	1620	1090	67	46-120	
Nitrobenzene	1620	1110	68	49-120	
N-Nitrosodi-n-propylamine	1620	1070	66	46-120	
N-Nitrosodiphenylamine	1620	1280	79	20-119	
Pentachlorophenol	3240	1390	43	33-136	
Phenanthrene	1620	1260	78	60-130	
Phenol	1620	1050	65	36-120	
Pyrene	1620	1370	85	51-133	

Column to be used to flag recovery and RPD values

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 460-110715-1
 SDG No.: _____
 Matrix: Solid Level: Low Lab File ID: U25865.D
 Lab ID: 460-110715-1 MS Client ID: C3 MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
1,1'-Biphenyl	1730	3500 U	1500 J	86	71-120	
1,2,4,5-Tetrachlorobenzene	1730	3500 U	1470 J	85	59-111	
2,2'-oxybis[1-chloropropane]	1730	3500 U	1400 J	81	44-120	
2,3,4,6-Tetrachlorophenol	1730	3500 U	2400 J	139	50-158	
2,4,5-Trichlorophenol	1730	3500 U	2080 J	120	59-126	
2,4,6-Trichlorophenol	1730	3500 U	2300 J	133	59-123	*
2,4-Dichlorophenol	1730	3500 U	1320 J	76	52-120	
2,4-Dimethylphenol	1730	3500 U	1250 J	72	36-120	
2,4-Dinitrophenol	3470	35000 U	35000 U	NC	35-146	
2,4-Dinitrotoluene	1730	3500 U	2900 J	167	55-125	*
2,6-Dinitrotoluene	1730	3500 U	2650 J	153	66-128	*
2-Chloronaphthalene	1730	3500 U	1520 J	88	57-120	
2-Chlorophenol	1730	3500 U	1280 J	74	38-120	
2-Methylnaphthalene	1730	3500 U	1440 J	83	47-120	
2-Methylphenol	1730	3500 U	1300 J	75	48-120	
2-Nitroaniline	1730	6900 U	2650 J	153	61-130	*
2-Nitrophenol	1730	3500 U	2590 J	150	50-120	*
3,3'-Dichlorobenzidine	3470	6900 U	6900 U	NC	48-126	
3-Nitroaniline	1730	6900 U	2490 J	144	61-127	*
4,6-Dinitro-2-methylphenol	3470	6900 U	6700 J	NC	49-155	
4-Bromophenyl phenyl ether	1730	3500 U	1350 J	78	58-131	
4-Chloro-3-methylphenol	1730	3500 U	1210 J	70	49-125	
4-Chloroaniline	1730	3500 U	876 J	50	49-120	
4-Chlorophenyl phenyl ether	1730	3500 U	1440 J	83	63-124	
4-Methylphenol	1730	6900 U	1250 J	72	50-119	
4-Nitroaniline	1730	6900 U	2520 J	NC	63-128	
4-Nitrophenol	3470	6900 U	4350 J	125	43-137	
Acenaphthene	1730	3500 U	1650 J	95	53-120	
Acenaphthylene	1730	3500 U	1430 J	82	58-121	
Acetophenone	1730	3500 U	1270 J	73	66-120	
Anthracene	1730	3500 U	1630 J	94	62-129	
Atrazine	3470	3500 U	2750 J	79	60-164	
Benzaldehyde	3470	3500 U	5580	161	21-120	*
Benzo[a]anthracene	1730	1500 J	2900 J	81	65-133	
Benzo[a]pyrene	1730	1300 J	2720 J	82	64-127	
Benzo[b]fluoranthene	1730	1700 J	3200 J	84	64-135	
Benzo[g,h,i]perylene	1730	2100 J	3660	93	50-152	
Benzo[k]fluoranthene	1730	610 J	2200 J	92	58-138	
Bis(2-chloroethoxy)methane	1730	3500 U	1360 J	79	61-133	
Bis(2-chloroethyl)ether	1730	3500 U	1390 J	80	45-120	
Bis(2-ethylhexyl) phthalate	1730	3500 U	1460 J	84	61-133	
Butyl benzyl phthalate	1730	3500 U	2280 J	132	61-129	*

Column to be used to flag recovery and RPD values

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 460-110715-1
 SDG No.: _____
 Matrix: Solid Level: Low Lab File ID: U25865.D
 Lab ID: 460-110715-1 MS Client ID: C3 MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Caprolactam	3470	3500 U	3040 J	88	54-133	
Carbazole	1730	3500 U	1600 J	92	59-129	
Chrysene	1730	1700 J	3300 J	95	64-131	
Dibenz (a,h) anthracene	1730	1600 J	3000 J	80	54-148	
Dibenzofuran	1730	3500 U	1600 J	92	56-120	
Diethyl phthalate	1730	3500 U	1320 J	76	66-126	
Dimethyl phthalate	1730	3500 U	1400 J	81	65-124	
Di-n-butyl phthalate	1730	3500 U	1280 J	74	58-130	
Di-n-octyl phthalate	1730	3500 U	2680 J	154	62-133	*
Fluoranthene	1730	3200 J	4440	70	62-131	
Fluorene	1730	3500 U	1510 J	87	63-126	
Hexachlorobenzene	1730	3500 U	1490 J	86	60-132	
Hexachlorobutadiene	1730	3500 U	1490 J	86	45-120	
Hexachlorocyclopentadiene	1730	3500 U	1820 J	105	31-120	
Hexachloroethane	1730	3500 U	1200 J	69	41-120	
Indeno[1,2,3-cd]pyrene	1730	2000 J	3490 J	87	56-149	
Isophorone	1730	3500 U	1200 J	69	56-120	
Naphthalene	1730	3500 U	1500 J	87	46-120	
Nitrobenzene	1730	3500 U	1270 J	73	49-120	
N-Nitrosodi-n-propylamine	1730	3500 U	1230 J	71	46-120	
N-Nitrosodiphenylamine	1730	3500 U	3500 U	NC	20-119	
Pentachlorophenol	3470	6900 U	4800 J	NC	33-136	
Phenanthrene	1730	2300 J	3270 J	55	60-130	*
Phenol	1730	3500 U	1350 J	78	36-120	
Pyrene	1730	2400 J	3820	79	51-133	

Column to be used to flag recovery and RPD values

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo

Job No.: 460-110715-1

SDG No.: _____

Matrix: Solid

Level: Low

Lab File ID: U25866.D

Lab ID: 460-110715-1 MSD

Client ID: C3 MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,1'-Biphenyl	2720	2200 J	81	38	20	71-120	*
1,2,4,5-Tetrachlorobenzene	2720	2020 J	74	31	21	59-111	*
2,2'-oxybis[1-chloropropane]	2720	1960 J	72	33	24	44-120	*
2,3,4,6-Tetrachlorophenol	2720	3690 J	136	42	33	50-158	*
2,4,5-Trichlorophenol	2720	3230 J	119	43	18	59-126	*
2,4,6-Trichlorophenol	2720	3380 J	124	38	19	59-123	*
2,4-Dichlorophenol	2720	2000 J	73	41	19	52-120	*
2,4-Dimethylphenol	2720	1790 J	66	35	42	36-120	
2,4-Dinitrophenol	5450	54000 U	NC	NC	22	35-146	
2,4-Dinitrotoluene	2720	4380 J	161	41	20	55-125	*
2,6-Dinitrotoluene	2720	4030 J	148	41	15	66-128	*
2-Chloronaphthalene	2720	2140 J	79	34	21	57-120	*
2-Chlorophenol	2720	1930 J	71	41	25	38-120	*
2-Methylnaphthalene	2720	2070 J	76	36	21	47-120	*
2-Methylphenol	2720	1800 J	66	32	27	48-120	*
2-Nitroaniline	2720	3860 J	142	37	15	61-130	*
2-Nitrophenol	2720	4030 J	148	43	18	50-120	*
3,3'-Dichlorobenzidine	5450	11000 U	NC	NC	25	48-126	
3-Nitroaniline	2720	11000 U	0	NC	19	61-127	*
4,6-Dinitro-2-methylphenol	5450	10400 J	NC	43	15	49-155	*
4-Bromophenyl phenyl ether	2720	2260 J	83	50	15	58-131	*
4-Chloro-3-methylphenol	2720	1800 J	66	39	27	49-125	*
4-Chloroaniline	2720	5600 U	0	NC	22	49-120	*
4-Chlorophenyl phenyl ether	2720	2100 J	77	38	16	63-124	*
4-Methylphenol	2720	1780 J	65	36	24	50-119	*
4-Nitroaniline	2720	3940 J	NC	44	24	63-128	*
4-Nitrophenol	5450	11000 U	0	NC	25	43-137	*
Acenaphthene	2720	2160 J	79	27	35	53-120	
Acenaphthylene	2720	1990 J	73	33	18	58-121	*
Acetophenone	2720	1860 J	68	38	20	66-120	*
Anthracene	2720	2230 J	82	31	15	62-129	*
Atrazine	5450	4360 J	80	45	20	60-164	*
Benzaldehyde	5450	8270	152	39	20	21-120	*
Benzo[a]anthracene	2720	3580 J	77	21	15	65-133	*
Benzo[a]pyrene	2720	3270 J	73	18	15	64-127	*
Benzo[b]fluoranthene	2720	3520 J	65	10	15	64-135	
Benzo[g,h,i]perylene	2720	4820 J	102	27	15	50-152	*
Benzo[k]fluoranthene	2720	2740 J	78	22	22	58-138	
Bis(2-chloroethoxy)methane	2720	2060 J	76	41	17	61-133	*
Bis(2-chloroethyl)ether	2720	1930 J	71	33	21	45-120	*
Bis(2-ethylhexyl) phthalate	2720	2190 J	81	40	15	61-133	*
Butyl benzyl phthalate	2720	3480 J	128	42	16	61-129	*

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 460-110715-1
 SDG No.: _____
 Matrix: Solid Level: Low Lab File ID: U25866.D
 Lab ID: 460-110715-1 MSD Client ID: C3 MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Caprolactam	5450	5010 J	92	49	20	54-133	*
Carbazole	2720	2140 J	79	29	20	59-129	*
Chrysene	2720	3760 J	77	13	15	64-131	
Dibenz (a,h) anthracene	2720	4310 J	99	36	15	54-148	*
Dibenzofuran	2720	2200 J	81	32	15	56-120	*
Diethyl phthalate	2720	1870 J	69	34	15	66-126	*
Dimethyl phthalate	2720	1940 J	71	32	15	65-124	*
Di-n-butyl phthalate	2720	1800 J	66	34	15	58-130	*
Di-n-octyl phthalate	2720	4070 J	149	41	16	62-133	*
Fluoranthene	2720	4650 J	52	5	15	62-131	*
Fluorene	2720	2230 J	82	38	15	63-126	*
Hexachlorobenzene	2720	2270 J	83	41	15	60-132	*
Hexachlorobutadiene	2720	1880 J	69	23	44	45-120	
Hexachlorocyclopentadiene	2720	2670 J	98	38	49	31-120	
Hexachloroethane	2720	1560 J	57	26	46	41-120	
Indeno[1,2,3-cd]pyrene	2720	4630 J	97	28	15	56-149	*
Isophorone	2720	1840 J	68	42	17	56-120	*
Naphthalene	2720	2120 J	78	34	29	46-120	*
Nitrobenzene	2720	1880 J	69	39	24	49-120	*
N-Nitrosodi-n-propylamine	2720	1570 J	58	24	31	46-120	
N-Nitrosodiphenylamine	2720	5600 U	NC	NC	15	20-119	
Pentachlorophenol	5450	7350 J	NC	42	35	33-136	*
Phenanthrene	2720	3930 J	59	18	15	60-130	*
Phenol	2720	1950 J	72	37	35	36-120	*
Pyrene	2720	4160 J	63	9	35	51-133	

Column to be used to flag recovery and RPD values

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 460-110715-1
SDG No.: _____
Lab File ID: U25863.D Lab Sample ID: MB 480-293139/1-A
Matrix: Solid Date Extracted: 03/29/2016 16:12
Instrument ID: HP5973U Date Analyzed: 03/30/2016 08:24
Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-293139/2-A	U25864.D	03/30/2016 08:51
C3 MS	460-110715-1 MS	U25865.D	03/30/2016 09:17
C3 MSD	460-110715-1 MSD	U25866.D	03/30/2016 09:44
C3	460-110715-1	U25867.D	03/30/2016 10:10
C4	460-110715-2	U25868.D	03/30/2016 10:37

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Buffalo Job No.: 460-110715-1
SDG No.: _____
Lab File ID: U25625.D DFTPP Injection Date: 03/15/2016
Instrument ID: HP5973U DFTPP Injection Time: 11:02
Analysis Batch No.: 290883

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10-80% of Base Peak	43.3
68	Less than 2% of mass 69	0.0 (0.0) 1
69	Mass 69 Relative abundance	40.6
70	Less than 2% of mass 69	0.0 (0.0) 1
127	10-80% of Base Peak	49.4
197	Less than 2% of mass 198	0.5
198	Base peak	100.0
199	5-9% of mass 198	6.7
275	10-60% of Base Peak	28.8
365	Greater than 1% of mass 198	5.0
441	present but less than 24% of mass 442	22.3 (15.1) 2
442	Greater than 50% of mass 198	147.7
443	15-24% of mass 442	28.5 (19.3) 2

1-Value is % mass 69

2-Value is % mass 442

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 480-290883/3	U25626.D	03/15/2016	11:37
	IC 480-290883/4	U25627.D	03/15/2016	12:04
	ICIS 480-290883/5	U25628.D	03/15/2016	12:31
	IC 480-290883/6	U25629.D	03/15/2016	12:57
	IC 480-290883/7	U25630.D	03/15/2016	13:24
	IC 480-290883/8	U25631.D	03/15/2016	13:51
	ICV 480-290883/9	U25632.D	03/15/2016	14:18

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Buffalo Job No.: 460-110715-1
 SDG No.: _____
 Lab File ID: U25856.D DFTPP Injection Date: 03/30/2016
 Instrument ID: HP5973U DFTPP Injection Time: 05:17
 Analysis Batch No.: 293176

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10-80% of Base Peak	41.2
68	Less than 2% of mass 69	0.0 (0.0) 1
69	Mass 69 Relative abundance	38.7
70	Less than 2% of mass 69	0.0 (0.0) 1
127	10-80% of Base Peak	45.8
197	Less than 2% of mass 198	0.0
198	Base peak	100.0
199	5-9% of mass 198	6.5
275	10-60% of Base Peak	30.1
365	Greater than 1% of mass 198	5.6
441	present but less than 24% of mass 442	24.8 (16.0) 2
442	Greater than 50% of mass 198	154.9
443	15-24% of mass 442	29.2 (18.8) 2

1-Value is % mass 69

2-Value is % mass 442

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-293176/3	U25857.D	03/30/2016	05:44
	MB 480-293139/1-A	U25863.D	03/30/2016	08:24
	LCS 480-293139/2-A	U25864.D	03/30/2016	08:51
C3 MS	460-110715-1 MS	U25865.D	03/30/2016	09:17
C3 MSD	460-110715-1 MSD	U25866.D	03/30/2016	09:44
C3	460-110715-1	U25867.D	03/30/2016	10:10
C4	460-110715-2	U25868.D	03/30/2016	10:37

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

Lab Name: TestAmerica Buffalo Job No.: 460-110715-1
 SDG No.: _____
 Sample No.: ICIS 480-290883/5 Date Analyzed: 03/15/2016 12:31
 Instrument ID: HP5973U GC Column: RXI-5Sil MS ID: 0.25 (mm)
 Lab File ID (Standard): U25628.D Heated Purge: (Y/N) N
 Calibration ID: 26677

	DCB		NPT		ANT		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
INITIAL CALIBRATION MID-POINT	94577	7.00	378282	8.51	206539	10.57	
UPPER LIMIT	189154	7.50	756564	9.01	413078	11.07	
LOWER LIMIT	47289	6.50	189141	8.01	103270	10.07	
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 480-290883/9		114821	7.00	449714	8.51	245593	10.57
CCVIS 480-293176/3		133486	6.99	512909	8.50	281288	10.56

DCB = 1,4-Dichlorobenzene-d4

NPT = Naphthalene-d8

ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area

RT Limit = \pm 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Buffalo Job No.: 460-110715-1
 SDG No.: _____
 Sample No.: ICIS 480-290883/5 Date Analyzed: 03/15/2016 12:31
 Instrument ID: HP5973U GC Column: RXI-5Sil MS ID: 0.25 (mm)
 Lab File ID (Standard): U25628.D Heated Purge: (Y/N) N
 Calibration ID: 26677

	PHN		CRY		PRY		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
INITIAL CALIBRATION MID-POINT	334923	12.08	377584	14.52	375432	16.20	
UPPER LIMIT	669846	12.58	755168	15.02	750864	16.70	
LOWER LIMIT	167462	11.58	188792	14.02	187716	15.70	
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 480-290883/9		407394	12.08	450506	14.52	449306	16.20
CCVIS 480-293176/3		480982	12.07	624835	14.51	719375	16.18

PHN = Phenanthrene-d10
 CRY = Chrysene-d12
 PRY = Perylene-d12

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

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Buffalo Job No.: 460-110715-1
 SDG No.: _____
 Sample No.: CCVIS 480-293176/3 Date Analyzed: 03/30/2016 05:44
 Instrument ID: HP5973U GC Column: RXI-5Sil MS ID: 0.25 (mm)
 Lab File ID (Standard): U25857.D Heated Purge: (Y/N) N
 Calibration ID: 26689

		DCB		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		133486	6.99	512909	8.50	281288	10.56
UPPER LIMIT		266972	7.49	1025818	9.00	562576	11.06
LOWER LIMIT		66743	6.49	256455	8.00	140644	10.06
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 480-293139/1-A		147881	6.99	557229	8.50	288687	10.56
LCS 480-293139/2-A		142278	6.99	532669	8.50	274919	10.56
460-110715-1 MS	C3 MS	124271	6.99	474535	8.50	248452	10.55
460-110715-1 MSD	C3 MSD	118722	6.98	458569	8.50	250197	10.56
460-110715-1	C3	118021	6.99	454752	8.50	247911	10.55
460-110715-2	C4	120649	6.99	456178	8.50	251803	10.56

DCB = 1,4-Dichlorobenzene-d4
 DCB = 1,4-Dichlorobenzene-d4
 NPT = Naphthalene-d8
 NPT = Naphthalene-d8
 Area Limit = 50%-200% of internal standard area
 ANT = Acenaphthene-d10
 RT Limit = \pm 0.5 minutes of internal standard RT
 ANT = Acenaphthene-d10

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Buffalo Job No.: 460-110715-1
 SDG No.: _____
 Sample No.: CCVIS 480-293176/3 Date Analyzed: 03/30/2016 05:44
 Instrument ID: HP5973U GC Column: RXI-5Sil MS ID: 0.25 (mm)
 Lab File ID (Standard): U25857.D Heated Purge: (Y/N) N
 Calibration ID: 26689

	PHN		CRY		PRY	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD	480982	12.07	624835	14.51	719375	16.18
UPPER LIMIT	961964	12.57	1249670	15.01	1438750	16.68
LOWER LIMIT	240491	11.57	312418	14.01	359688	15.68
LAB SAMPLE ID	CLIENT SAMPLE ID					
MB 480-293139/1-A		451020	12.07	461311	14.51	447126 16.18
LCS 480-293139/2-A		432564	12.07	449556	14.51	428465 16.18
460-110715-1 MS	C3 MS	413867	12.07	513447	14.51	572077 16.18
460-110715-1 MSD	C3 MSD	425571	12.07	516742	14.51	586327 16.18
460-110715-1	C3	423340	12.07	534447	14.51	626799 16.18
460-110715-2	C4	425892	12.07	537486	14.51	650473 16.18

PHN = Phenanthrene-d10
 PHN = Phenanthrene-d10
 CRY = Chrysene-d12
 CRY = Chrysene-d12
 Area Limit = 50%-200% of internal standard area
 PRY = Perylene-d12
 RT Limit = ± 0.5 minutes of internal standard RT
 PRY = Perylene-d12

Column used to flag values outside QC limits

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>460-110715-1</u>
SDG No.: _____	
Client Sample ID: <u>C3</u>	Lab Sample ID: <u>460-110715-1</u>
Matrix: <u>Solid</u>	Lab File ID: <u>U25867.D</u>
Analysis Method: <u>8270D</u>	Date Collected: <u>03/18/2016 12:15</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>03/29/2016 16:12</u>
Sample wt/vol: <u>30.28(g)</u>	Date Analyzed: <u>03/30/2016 10:10</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>20</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>4.9</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>293176</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	3500	U	3500	520
95-94-3	1,2,4,5-Tetrachlorobenzene	3500	U	3500	600
108-60-1	2,2'-oxybis[1-chloropropane]	3500	U	3500	710
58-90-2	2,3,4,6-Tetrachlorophenol	3500	U *	3500	730
95-95-4	2,4,5-Trichlorophenol	3500	U	3500	960
88-06-2	2,4,6-Trichlorophenol	3500	U	3500	710
120-83-2	2,4-Dichlorophenol	3500	U	3500	370
105-67-9	2,4-Dimethylphenol	3500	U	3500	850
51-28-5	2,4-Dinitrophenol	35000	U *	35000	16000
121-14-2	2,4-Dinitrotoluene	3500	U	3500	730
606-20-2	2,6-Dinitrotoluene	3500	U	3500	420
91-58-7	2-Chloronaphthalene	3500	U	3500	580
95-57-8	2-Chlorophenol	3500	U	3500	650
91-57-6	2-Methylnaphthalene	3500	U	3500	710
95-48-7	2-Methylphenol	3500	U	3500	420
88-74-4	2-Nitroaniline	6900	U	6900	520
88-75-5	2-Nitrophenol	3500	U	3500	1000
91-94-1	3,3'-Dichlorobenzidine	6900	U	6900	4200
99-09-2	3-Nitroaniline	6900	U	6900	980
534-52-1	4,6-Dinitro-2-methylphenol	6900	U	6900	3500
101-55-3	4-Bromophenyl phenyl ether	3500	U	3500	500
59-50-7	4-Chloro-3-methylphenol	3500	U	3500	870
106-47-8	4-Chloroaniline	3500	U	3500	870
7005-72-3	4-Chlorophenyl phenyl ether	3500	U	3500	440
106-44-5	4-Methylphenol	6900	U	6900	420
100-01-6	4-Nitroaniline	6900	U	6900	1900
100-02-7	4-Nitrophenol	6900	U	6900	2500
83-32-9	Acenaphthene	3500	U	3500	520
208-96-8	Acenaphthylene	3500	U	3500	460
98-86-2	Acetophenone	3500	U *	3500	480
120-12-7	Anthracene	3500	U	3500	870
1912-24-9	Atrazine	3500	U	3500	1200
100-52-7	Benzaldehyde	3500	U *	3500	2800
56-55-3	Benzo[a]anthracene	1500	J	3500	350

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>460-110715-1</u>
SDG No.: _____	
Client Sample ID: <u>C3</u>	Lab Sample ID: <u>460-110715-1</u>
Matrix: <u>Solid</u>	Lab File ID: <u>U25867.D</u>
Analysis Method: <u>8270D</u>	Date Collected: <u>03/18/2016 12:15</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>03/29/2016 16:12</u>
Sample wt/vol: <u>30.28(g)</u>	Date Analyzed: <u>03/30/2016 10:10</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>20</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>4.9</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>293176</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
50-32-8	Benzo[a]pyrene	1300	J	3500	520
205-99-2	Benzo[b]fluoranthene	1700	J	3500	560
191-24-2	Benzo[g,h,i]perylene	2100	J	3500	370
207-08-9	Benzo[k]fluoranthene	610	J	3500	460
111-91-1	Bis(2-chloroethoxy)methane	3500	U	3500	750
111-44-4	Bis(2-chloroethyl)ether	3500	U	3500	460
117-81-7	Bis(2-ethylhexyl) phthalate	3500	U	3500	1200
85-68-7	Butyl benzyl phthalate	3500	U	3500	580
105-60-2	Caprolactam	3500	U	3500	1100
86-74-8	Carbazole	3500	U	3500	420
218-01-9	Chrysene	1700	J	3500	790
53-70-3	Dibenz(a,h)anthracene	1600	J	3500	620
132-64-9	Dibenzofuran	3500	U	3500	420
84-66-2	Diethyl phthalate	3500	U	3500	460
131-11-3	Dimethyl phthalate	3500	U	3500	420
84-74-2	Di-n-butyl phthalate	3500	U	3500	600
117-84-0	Di-n-octyl phthalate	3500	U	3500	420
206-44-0	Fluoranthene	3200	J	3500	370
86-73-7	Fluorene	3500	U	3500	420
118-74-1	Hexachlorobenzene	3500	U	3500	480
87-68-3	Hexachlorobutadiene	3500	U	3500	520
77-47-4	Hexachlorocyclopentadiene	3500	U	3500	480
67-72-1	Hexachloroethane	3500	U	3500	460
193-39-5	Indeno[1,2,3-cd]pyrene	2000	J	3500	440
78-59-1	Isophorone	3500	U	3500	750
91-20-3	Naphthalene	3500	U	3500	460
98-95-3	Nitrobenzene	3500	U	3500	400
621-64-7	N-Nitrosodi-n-propylamine	3500	U	3500	600
86-30-6	N-Nitrosodiphenylamine	3500	U	3500	2900
87-86-5	Pentachlorophenol	6900	U	6900	3500
85-01-8	Phenanthrene	2300	J	3500	520
108-95-2	Phenol	3500	U	3500	540
129-00-0	Pyrene	2400	J	3500	420

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>460-110715-1</u>
SDG No.: _____	
Client Sample ID: <u>C3</u>	Lab Sample ID: <u>460-110715-1</u>
Matrix: <u>Solid</u>	Lab File ID: <u>U25867.D</u>
Analysis Method: <u>8270D</u>	Date Collected: <u>03/18/2016 12:15</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>03/29/2016 16:12</u>
Sample wt/vol: <u>30.28(g)</u>	Date Analyzed: <u>03/30/2016 10:10</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>20</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>4.9</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>293176</u>	Units: <u>ug/Kg</u>

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	152	*	39-146
321-60-8	2-Fluorobiphenyl	79		37-120
367-12-4	2-Fluorophenol (Surr)	73		18-120
4165-60-0	Nitrobenzene-d5 (Surr)	66		34-132
4165-62-2	Phenol-d5 (Surr)	73		11-120
1718-51-0	p-Terphenyl-d14 (Surr)	75		65-153

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160330-51640.b\U25867.D
 Lims ID: 460-110715-B-1-D Lab Sample ID: 480-110715-1
 Client ID: C3
 Sample Type: Client
 Inject. Date: 30-Mar-2016 10:10:30 ALS Bottle#: 13 Worklist Smp#: 13
 Injection Vol: 1.0 ul Dil. Factor: 20.0000
 Sample Info: 480-0051640-013
 Misc. Info.: 480-97201-A-1-A
 Operator ID: CAS Instrument ID: HP5973U
 Method: \\ChromNA\Buffalo\ChromData\HP5973U\20160330-51640.b\U-8270.m
 Limit Group: MB - 8270D ICAL
 Last Update: 30-Mar-2016 13:44:50 Calib Date: 15-Mar-2016 21:31:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U25648.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK047

First Level Reviewer: richardsd

Date: 30-Mar-2016 13:29:52

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.985	6.980	0.005	96	118021	40.0	
* 2 Naphthalene-d8	136	8.497	8.497	0.000	100	454752	40.0	
* 3 Acenaphthene-d10	164	10.554	10.559	-0.005	98	247911	40.0	
* 4 Phenanthrene-d10	188	12.071	12.071	0.000	97	423340	40.0	
* 5 Chrysene-d12	240	14.507	14.507	0.000	97	534447	40.0	
* 6 Perylene-d12	264	16.179	16.179	0.000	97	626799	40.0	
\$ 9 2-Fluorophenol	112	5.404	5.404	0.000	91	5983	1.47	
\$ 10 Phenol-d5	99	6.505	6.505	0.000	85	7288	1.47	
\$ 11 Nitrobenzene-d5	82	7.627	7.627	-0.001	94	5979	1.32	
\$ 12 2-Fluorobiphenyl	172	9.763	9.763	0.000	98	13078	1.58	
\$ 13 2,4,6-Tribromophenol	330	11.382	11.388	-0.006	1	1629	3.03	
\$ 14 p-Terphenyl-d14	244	13.492	13.498	-0.006	41	17722	1.51	
22 N-Methylaniline	1		0.700				ND	
71 Chlorotoluene N.O.S	1		0.700				ND	
58 Chlorobenzotrifluoride N.O	1		0.700				ND	
33 o-Anisidine	1		0.700				ND	
41 2-Chlorotoluene	91		0.700				ND	
59 Tricresyl phosphate	1		0.700				ND	
15 Lidocaine	1		0.700				ND	
75 3-Chloropyridine	1		0.700				ND	
63 5-Ethyl-5-phenyl barbituri	1		0.700				ND	
68 4-Chloropyridine	1		0.700				ND	
48 2-Chloropyridine	1		0.700				ND	
80 1,4-Dioxane	88		3.107				ND	
81 N-Nitrosodimethylamine	42		3.540				ND	
82 Pyridine	52		3.636				ND	
248 Triethyl amine	86		3.980				ND	
83 2-Picoline	93		4.667				ND	
84 N-Nitrosomethylethylamine	88		4.774				ND	
31 Dimethylformamide	73		4.783				ND	
250 Acrylamide	71		5.094				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
85 Methyl methanesulfonate	80		5.153				ND	
86 N-Nitrosodiethylamine	102		5.671				ND	
87 Ethyl methanesulfonate	79		6.008				ND	
88 Benzaldehyde	77		6.457				ND	
89 Phenol	94		6.521				ND	
90 Aniline	93		6.579				ND	
91 Bis(2-chloroethyl)ether	93		6.628				ND	
92 Pentachloroethane	167		6.654				ND	
93 2-Chlorophenol	128		6.740				ND	
258 n-Decane	57		6.766				ND	
94 1,3-Dichlorobenzene	146		6.921				ND	
95 1,4-Dichlorobenzene	146		7.002				ND	
96 Benzyl alcohol	108		7.114				ND	
45 2-Aminopyridine	94		7.171				ND	
97 1,2-Dichlorobenzene	146		7.194				ND	
98 2-Methylphenol	108		7.242				ND	
99 2,2'-oxybis[1-chloropropan	45		7.274				ND	
249 Indene	115		7.295				ND	
100 N-Nitrosopyrrolidine	100		7.391				ND	
102 4-Methylphenol	108		7.413				ND	
101 N-Nitrosodi-n-propylamine	70		7.424				ND	
103 N-Nitrosomorpholine	56		7.434				ND	
104 Acetophenone	105		7.440				ND	
105 2-Toluidine	106		7.482				ND	
73 4-Methylbenzenamine	106		7.488				ND	
106 Hexachloroethane	117		7.600				ND	
107 Nitrobenzene	77		7.648				ND	
109 N-Nitrosopiperidine	114		7.819				ND	
110 Isophorone	82		7.920				ND	
46 2,4-Dichlorotoluene	125		7.942				ND	
51 2-Chloroaniline	127		7.984				ND	
111 2-Nitrophenol	139		8.033				ND	
112 2,4-Dimethylphenol	107		8.049				ND	
53 1,3,5-Trichlorobenzene	180		8.059				ND	
116 o,o',o''-Triethylphosphoro	198		8.118				ND	
119 Benzoic acid	105		8.123				ND	
113 Tetraethyl lead	237		8.134				ND	
115 Bis(2-chloroethoxy)methane	93		8.155				ND	
118 alpha,alpha-Dimethyl phene	58		8.300				ND	
117 2,4-Dichlorophenol	162		8.316				ND	
66 4-Chlorophenol	128		8.412				ND	
120 1,2,4-Trichlorobenzene	180		8.428				ND	
122 Alpha-Terpineol	59		8.503				ND	
121 Naphthalene	128		8.524				ND	
123 4-Chloroaniline	127		8.561				ND	
124 2,6-Dichlorophenol	162		8.583				ND	
125 Hexachloropropene	213		8.636				ND	
126 Hexachlorobutadiene	225		8.668				ND	
32 Quinoline	129		8.909				ND	
129 N-Nitrosodi-n-butylamine	84		8.941				ND	
127 Caprolactam	113		8.941				ND	
128 p-Phenylene diamine	108		8.967				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
131 4-Chloro-3-methylphenol	107		9.122				ND	
132 Safrole, Total	162		9.213				ND	
259 2,4,5-Trichlorotoluene	159		9.299				ND	
133 2-Methylnaphthalene	142		9.347				ND	
135 Phthalic anhydride	104		9.389				ND	
251 n,n'-Dimethylaniline	120		9.404				ND	
252 1-Methylnaphthalene	142		9.464				ND	
136 Hexachlorocyclopentadiene	237		9.544				ND	
138 1,2,4,5-Tetrachlorobenzene	216		9.550				ND	
262 1,2,3,4 -Tetrachlorobenzen	216		9.550				ND	
261 2,3-Dichlorobenzenamine	161		9.673				ND	
139 2,4,6-Trichlorophenol	196		9.673				ND	
140 2,4,5-Trichlorophenol	196		9.721				ND	
142 Isosafrole	162		9.833				ND	
144 1,1'-Biphenyl	154		9.886				ND	
143 2-Chloronaphthalene	162		9.929				ND	
254 1-Chloronaphthalene	162		9.956				ND	
145 2-Nitroaniline	65		10.020				ND	
42 1,4-Naphthoquinone	158		10.111				ND	
30 Dicyclohexylamine	138		10.127				ND	
146 1,4-Dinitrobenzene	168		10.159				ND	
147 Dimethyl phthalate	163		10.207				ND	
50 1,3-Dinitrobenzene	168		10.250				ND	
148 2,6-Dinitrotoluene	165		10.282				ND	
149 Acenaphthylene	152		10.405				ND	
150 3-Nitroaniline	138		10.479				ND	
152 2,4-Dinitrophenol	184		10.592				ND	
151 Acenaphthene	153	10.591	10.592	-0.001	88	1704	0.2447	
153 4-Nitrophenol	109		10.645				ND	
154 2,4-Dinitrotoluene	165		10.730				ND	
156 Pentachlorobenzene	250		10.741				ND	
155 Dibenzofuran	168		10.778				ND	
157 1-Naphthylamine	143		10.853				ND	
265 2,3,5,6-Tetrachlorophenol	232		10.858				ND	
158 2,3,4,6-Tetrachlorophenol	232		10.901				ND	
159 2-Naphthylamine	143		10.933				ND	
160 Diethyl phthalate	149		10.965				ND	
257 Hexadecane	57		10.976				ND	
163 Thionazin	97		11.056				ND	
162 4-Chlorophenyl phenyl ethe	204		11.115				ND	
165 N-Nitro-o-toluidine	152		11.126				ND	
164 4-Nitroaniline	138		11.131				ND	
161 Fluorene	166		11.136				ND	
29 Tributyl phosphate	99		11.163				ND	
166 4,6-Dinitro-2-methylphenol	198		11.163				ND	
167 N-Nitrosodiphenylamine	169		11.233				ND	
169 Diphenylamine	169		11.233				ND	
168 1,2-Diphenylhydrazine	77		11.281				ND	
170 Azobenzene	77		11.281				ND	
171 Sulfotepp	322		11.361				ND	
172 1,3,5-Trinitrobenzene	213		11.462				ND	
175 Phenacetin	108		11.516				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
173 Diallate	43		11.516				ND	
174 Phorate	75		11.521				ND	
176 4-Bromophenyl phenyl ether	248		11.612				ND	
178 Dimethoate	87		11.687				ND	
179 Simazine	201		11.708				ND	
177 Hexachlorobenzene	284		11.708				ND	
180 Atrazine	200		11.735				ND	
182 4-Aminobiphenyl	169		11.863				ND	
181 Pentachlorophenol	266		11.890				ND	
263 n-Octadecane	57		11.890				ND	
184 Pronamide	173		11.900				ND	
183 Pentachloronitrobenzene	237		11.906				ND	
187 Disulfoton	88		12.023				ND	
186 Dinoseb	211		12.034				ND	
185 Phenanthrene	178	12.093	12.098	-0.005	96	39528	3.35	
188 Anthracene	178	12.146	12.146	0.000	95	7391	0.6083	
189 Carbazole	167		12.280				ND	
190 Methyl parathion	109		12.381				ND	
191 Alachlor	160		12.381				ND	
192 Di-n-butyl phthalate	149		12.541				ND	
264 2-Methylantracene	192	12.605	12.611	-0.006	93	1379	NC	
193 Ethyl Parathion	97		12.728				ND	
194 4-Nitroquinoline-1-oxide	190		12.792				ND	
195 Methapyrilene	58		12.830				ND	
62 Anthraquinone	180		12.830				ND	
196 Isodrin	193		13.065				ND	
197 Fluoranthene	202	13.193	13.193	0.000	98	59379	4.65	
37 1-Hydroxyanthraquinone	224		13.214				ND	
198 Benzidine	184		13.268				ND	
199 Pyrene	202	13.407	13.407	0.000	97	52523	3.52	
200 Aramite, Total	185		13.498				ND	
201 p-Dimethylamino azobenzene	120		13.615				ND	
202 Chlorobenzilate	139		13.642				ND	
34 1,4-Dihydroxyanthraquinone	240		13.642				ND	
204 Famphur	218		13.861				ND	
64 9-Octadecenamide	72		13.877				ND	
205 Butyl benzyl phthalate	149		13.893				ND	
203 3,3'-Dimethylbenzidine	212		13.914				ND	
206 Kepone	272		14.032				ND	
207 2-Acetylaminofluorene	181		14.155				ND	
210 Bis(2-ethylhexyl) phthalat	149		14.379				ND	
247 4,4'-Methylene bis(2-chlor	231		14.416				ND	
208 3,3'-Dichlorobenzidine	252		14.427				ND	
209 Benzo[a]anthracene	228	14.497	14.497	0.000	97	32842	2.15	
211 Chrysene	228	14.534	14.534	0.000	96	35252	2.38	
255 6-Methylchrysene	242		14.988				ND	
212 Di-n-octyl phthalate	149		15.004				ND	
215 7,12-Dimethylbenz(a)anthra	256		15.640				ND	
213 Benzo[b]fluoranthene	252	15.672	15.672	0.000	96	46112	2.51	
214 Benzo[k]fluoranthene	252	15.699	15.704	-0.005	98	16672	0.8853	M
216 Hexachlorophene	196		15.720				ND	
260 Benzo[e]pyrene	252	16.030	16.041	-0.011	98	23335	NC	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
217 Benzo[a]pyrene	252	16.105	16.110	-0.005	97	32052	1.87	
218 3-Methylcholanthrene	252		16.564				ND	
237 Dibenz[a,h]acridine	279		17.424				ND	
220 Dibenz(a,h)anthracene	278	17.857	17.873	-0.016	85	7719	2.32	
219 Indeno[1,2,3-cd]pyrene	276	17.868	17.884	-0.016	96	23981	2.86	
221 Benzo[g,h,i]perylene	276	18.391	18.407	-0.016	97	23676	2.96	
72 4-Chlorobenzotrifluoride	1		0.700				ND	
269 2,4-Dichlorotoluene TIC	1		0.700				ND	
277 4-Chloro-3-nitro-alpha,alp	1		0.700				ND	
283 2,4'-DDT	1		0.700				ND	
21 2-Chlorobenzotrifluoride	1		0.700				ND	
239 Benzo[j]fluoranthene	1		0.700				ND	
234 7H-Dibenzo[c,g]carbazole	1		0.700				ND	
267 4-Chlorobenzotrifluoride T	1		0.700				ND	
266 2,6-Dichlorotoluene TIC	1		0.700				ND	
268 2-Chlorobenzotrifluoride T	1		0.700				ND	
40 1-Methylcyclopentanol	1		0.700				ND	
280 Photomirex TIC	1		0.700				ND	
246 Phenylmercaptan	110		0.700				ND	
76 3-Chlorobenzotrifluoride	1		0.700				ND	
17 CN-500	1		0.700				ND	
23 n,n'-Dimethylacetamide	1		0.700				ND	
274 Phenyl ether	1		0.700				ND	
227 CBF-500	1		0.700				ND	
225 CBF-400	1		0.700				ND	
74 3-Chlorotoluene	1		0.700				ND	
56 Benzeneacetic acid (TIC)	1		0.700				ND	
281 2,4'-DDE	1		0.700				ND	
67 4-Chlorotoluene	91		0.700				ND	
241 2,4-Toluene diamine	1		0.700				ND	
52 2,6-Dichlorotoluene	1		0.700				ND	
27 Pendimethalin	1		0.700				ND	
229 1,3-phenylenediamine TIC	1		0.700				ND	
224 5-Methyl-o-Anisidine TIC	1		0.700				ND	
236 Dibenz[a,j]acridine	279		0.700				ND	
238 Dibenzo[a,h]pyrene	1		0.700				ND	
70 Phenylacetic Acid	1		0.700				ND	
54 p-Fluoroaniline	1		0.700				ND	
49 2,6-Dichloropyridine	1		0.700				ND	
242 alpha,alpha-Dimethyl phene	1		0.700				ND	
19 NVF-400	1		0.700				ND	
24 Dibenzo[a,e]pyrene	1		0.700				ND	
244 Hexamethyldisiloxane TIC	1		0.700				ND	
245 1-Bromopropane	1		0.700				ND	
57 5-Methyl-o-Anisidine	1		0.700				ND	
230 2,4-Xylidine TIC	1		0.700				ND	
226 Tris(2,3-dibromopropyl)pho	1		0.700				ND	
36 2,3-Dichlorophenol	1		0.700				ND	
273 4-tert-Octylphenol	1		0.700				ND	
240 Dibenz(a,i)pyrene	1		0.700				ND	
18 CU-600	1		0.700				ND	
61 CAG-800	1		0.700				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
235 Octachlorostyrene	1		0.700				ND	
270 3-Chlorobenzotrifluoride T	1		0.700				ND	
228 o-Anisidine TIC	1		0.700				ND	
60 Benzeneacetonitrile	1		0.700				ND	
282 2,4'-DDD	235		0.700				ND	
272 Benzophenone	1		0.700				ND	
279 1,4-Dioxane TIC	1		0.700				ND	
232 4,4'-Methylene bis(2-chlor	1		0.700				ND	
243 Tetramethyl lead TIC	1		0.700				ND	
275 1,2,3-Trimethylbenzene	105		0.700				ND	
S 222 Total Cresols	1		0.700				ND	
S 77 3 & 4 Methylphenol	108		0.700				ND	
S 78 3-Methylphenol	1		0.700				ND	
S 233 EPH Adjustment 1	1		0.700				ND	
T 25 Prometryn (TIC)	1		0.700				ND	
T 65 Benefin (TIC)	1		0.700				ND	
T 28 Pendimethalin (TIC)	1		0.700				ND	
T 26 trans Azobenzene (TIC)	77		0.700				ND	
T 38 1-Methylnaphthalene (TIC)	142		0.700				ND	
T 231 2,3,7,8-TCDD	322		10.700				ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

MB_INTSTD_STK_00019

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160330-51640.b\U25867.D

Injection Date: 30-Mar-2016 10:10:30

Instrument ID: HP5973U

Operator ID: CAS

Lims ID: 460-110715-B-1-D

Lab Sample ID: 480-110715-1

Worklist Smp#: 13

Client ID: C3

Injection Vol: 1.0 ul

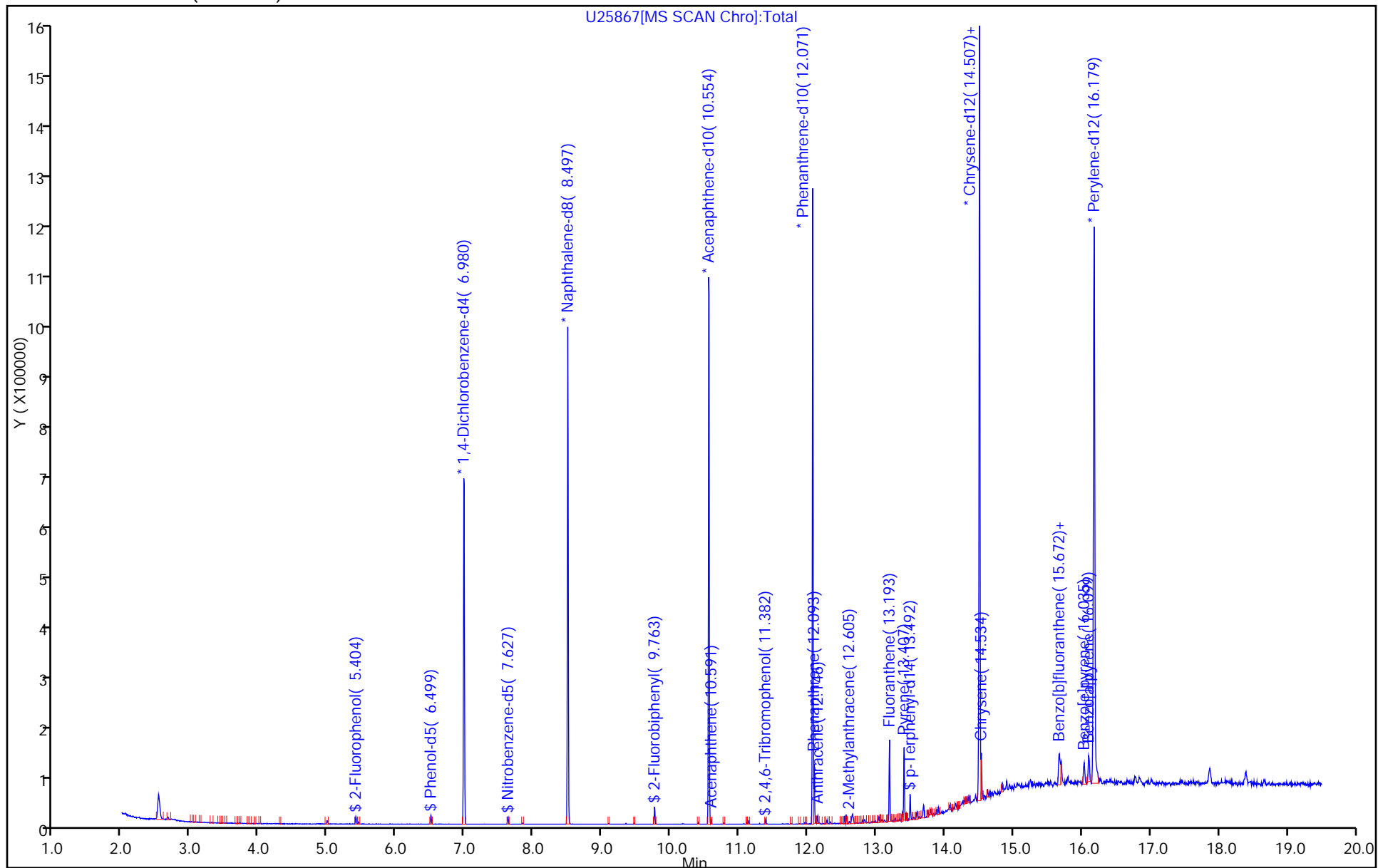
Dil. Factor: 20.0000

ALS Bottle#: 13

Method: U-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160330-51640.b\U25867.D

Injection Date: 30-Mar-2016 10:10:30

Instrument ID: HP5973U

Lims ID: 460-110715-B-1-D

Lab Sample ID: 480-110715-1

Client ID: C3

Operator ID: CAS

ALS Bottle#: 13

Worklist Smp#: 13

Injection Vol: 1.0 ul

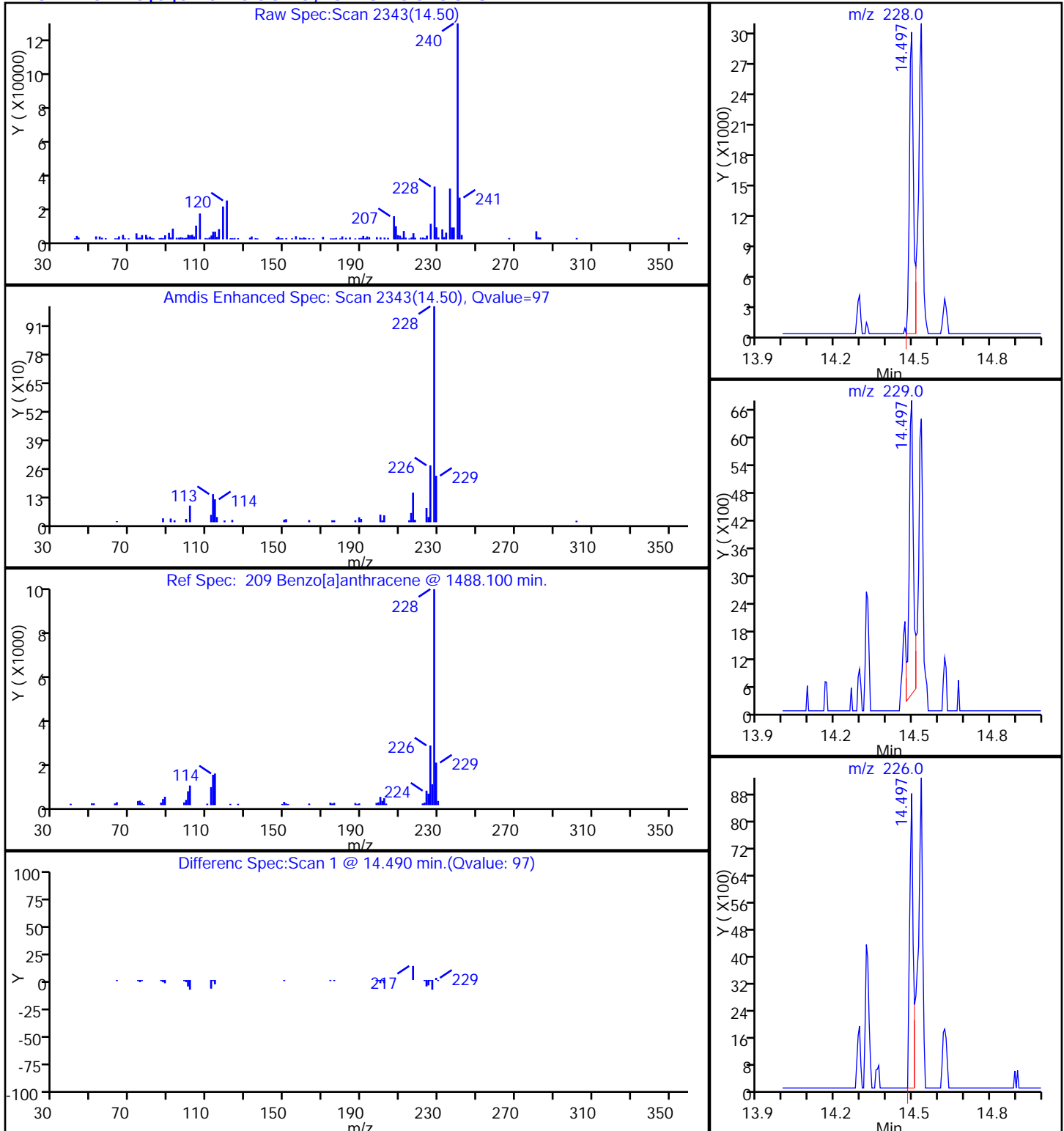
Dil. Factor: 20.0000

Method: U-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

209 Benzo[a]anthracene, CAS: 56-55-3

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160330-51640.b\U25867.D

Injection Date: 30-Mar-2016 10:10:30

Instrument ID: HP5973U

Lims ID: 460-110715-B-1-D

Lab Sample ID: 480-110715-1

Client ID: C3

Operator ID: CAS

ALS Bottle#: 13

Worklist Smp#: 13

Injection Vol: 1.0 ul

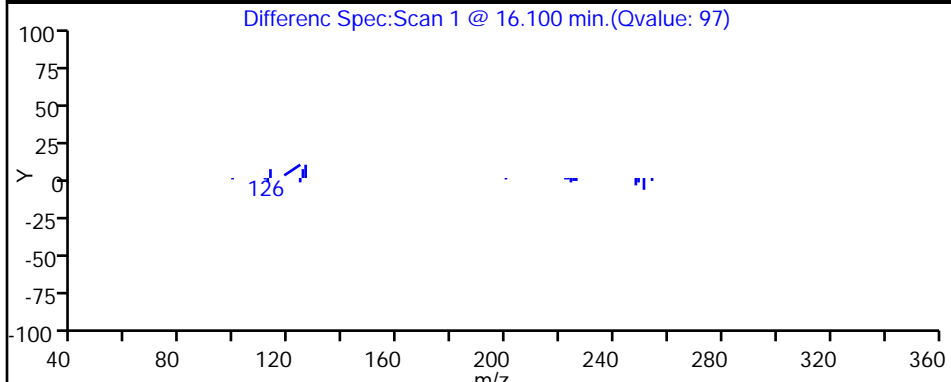
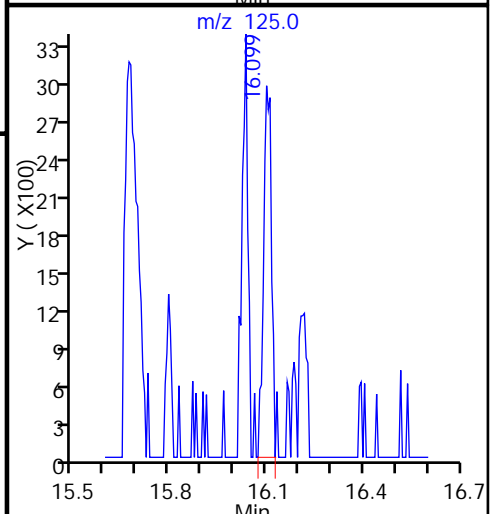
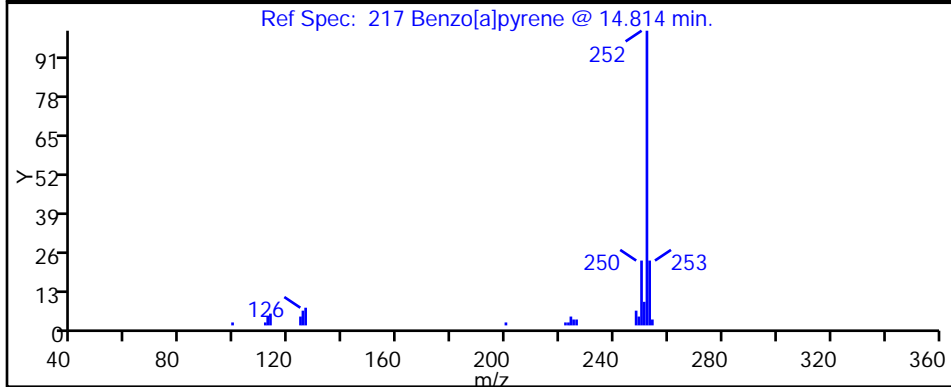
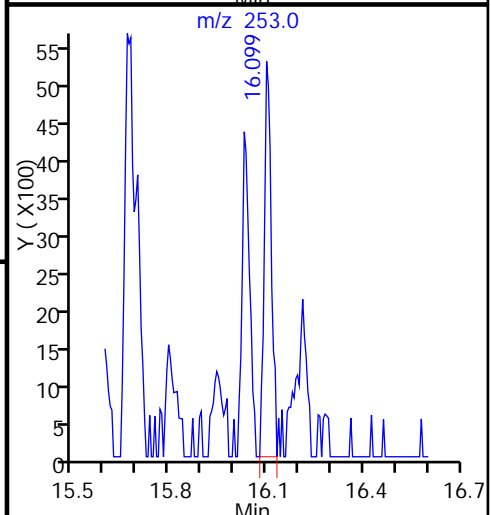
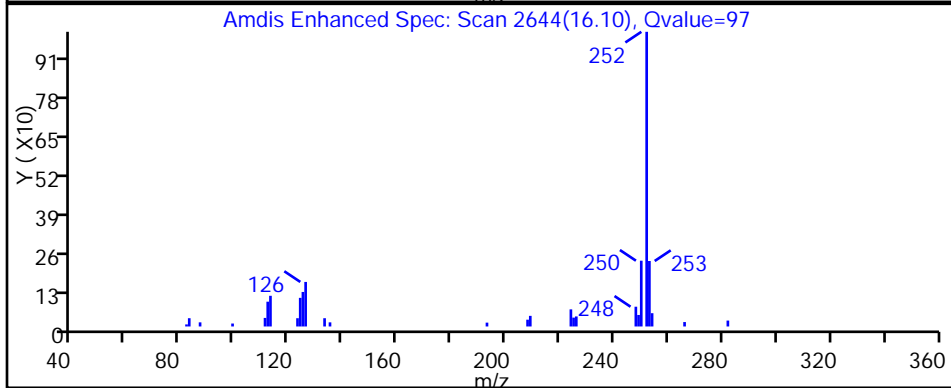
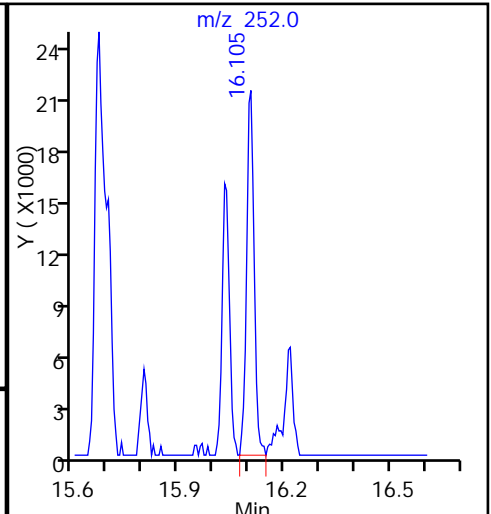
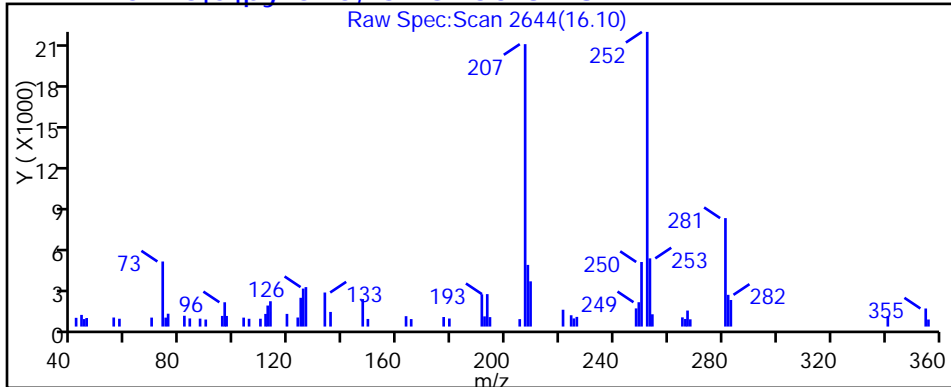
Dil. Factor: 20.0000

Method: U-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

217 Benzo[a]pyrene, CAS: 50-32-8

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160330-51640.b\U25867.D

Injection Date: 30-Mar-2016 10:10:30

Instrument ID: HP5973U

Lims ID: 460-110715-B-1-D

Lab Sample ID: 480-110715-1

Client ID: C3

Operator ID: CAS

ALS Bottle#: 13

Worklist Smp#: 13

Injection Vol: 1.0 ul

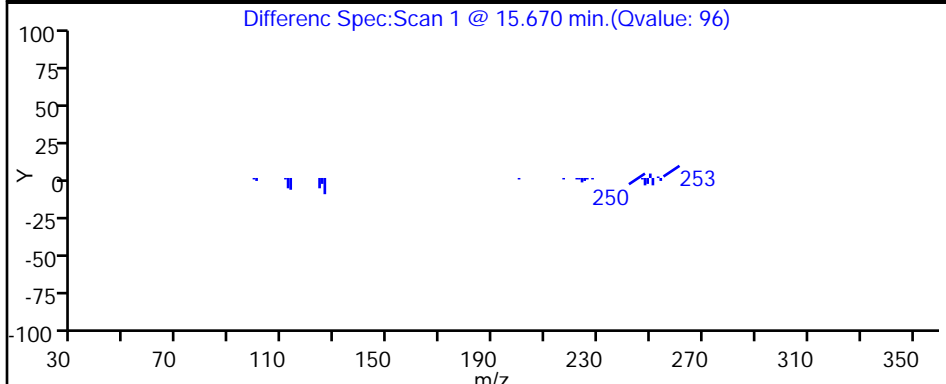
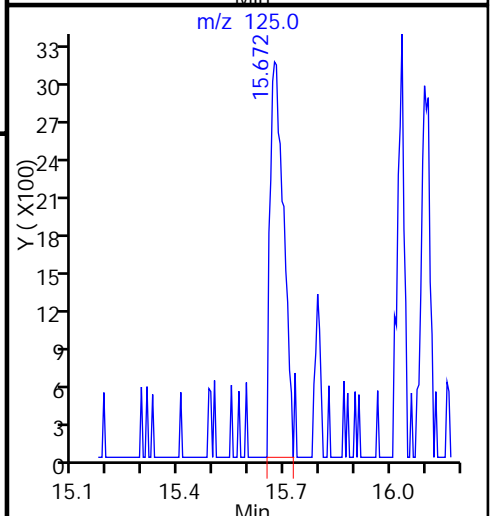
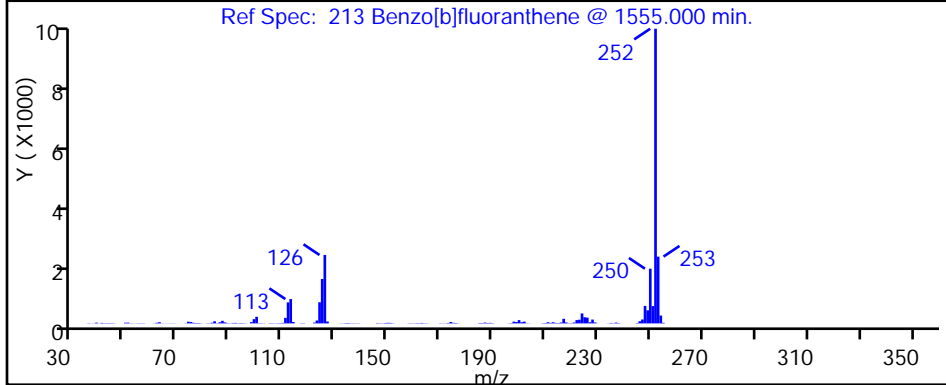
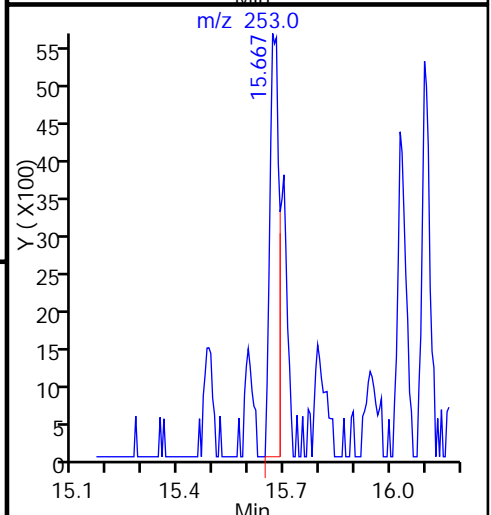
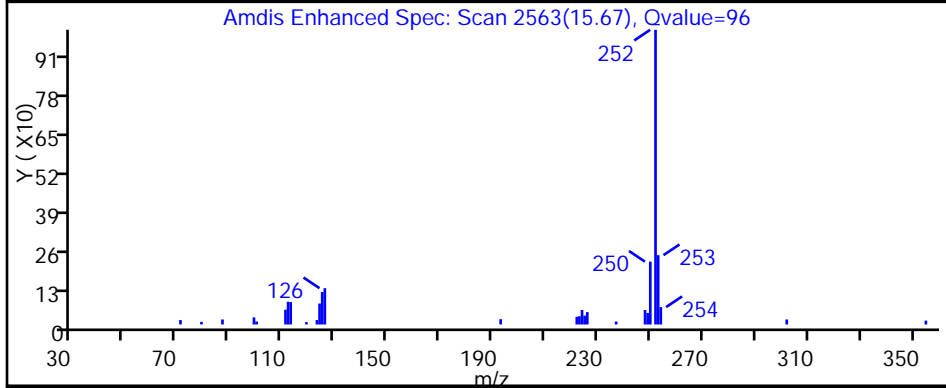
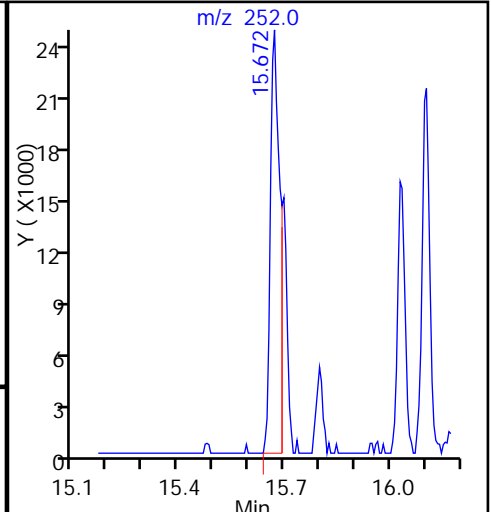
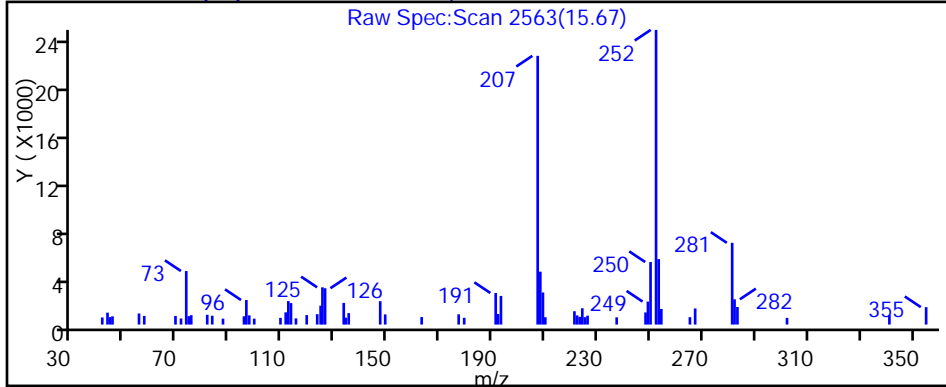
Dil. Factor: 20.0000

Method: U-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

213 Benzo[b]fluoranthene, CAS: 205-99-2

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160330-51640.b\U25867.D

Injection Date: 30-Mar-2016 10:10:30

Instrument ID: HP5973U

Lims ID: 460-110715-B-1-D

Lab Sample ID: 480-110715-1

Client ID: C3

Operator ID: CAS

ALS Bottle#: 13

Worklist Smp#: 13

Injection Vol: 1.0 ul

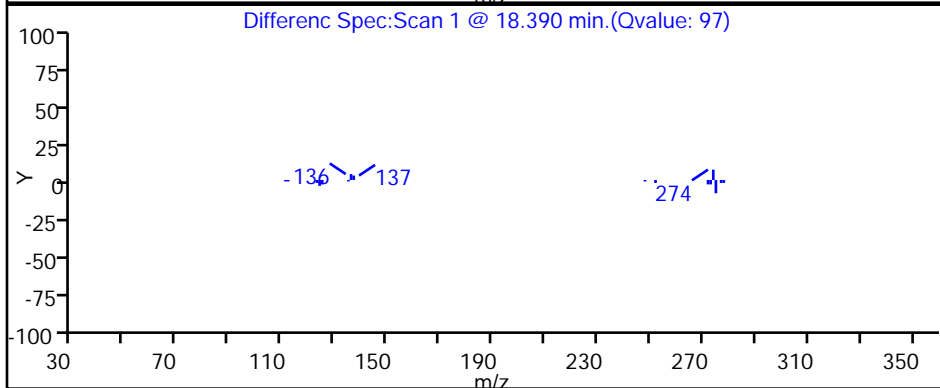
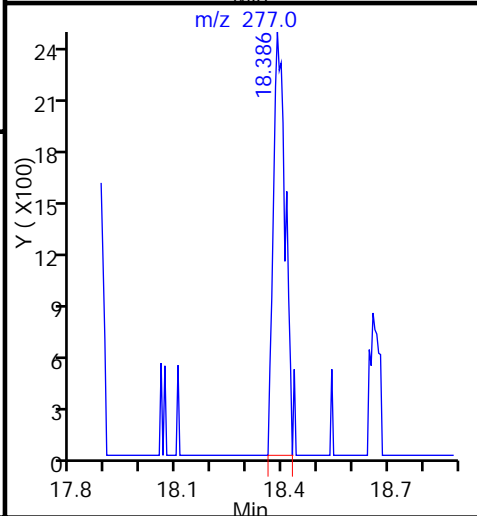
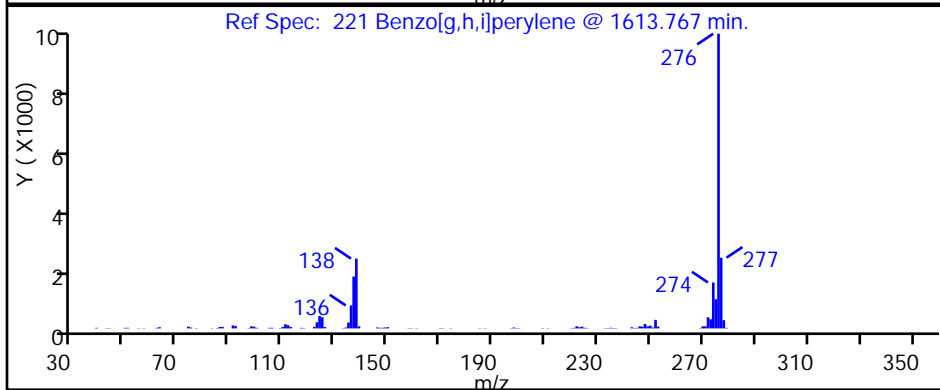
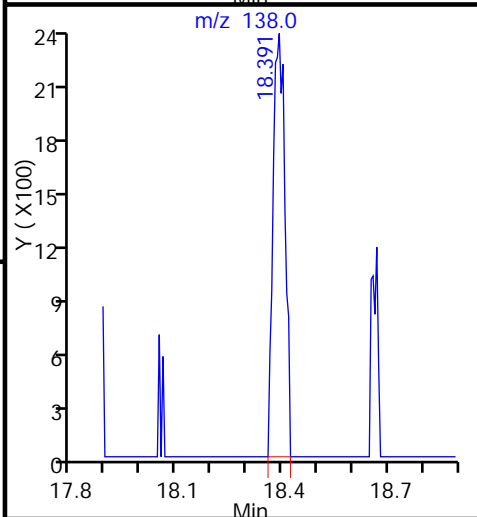
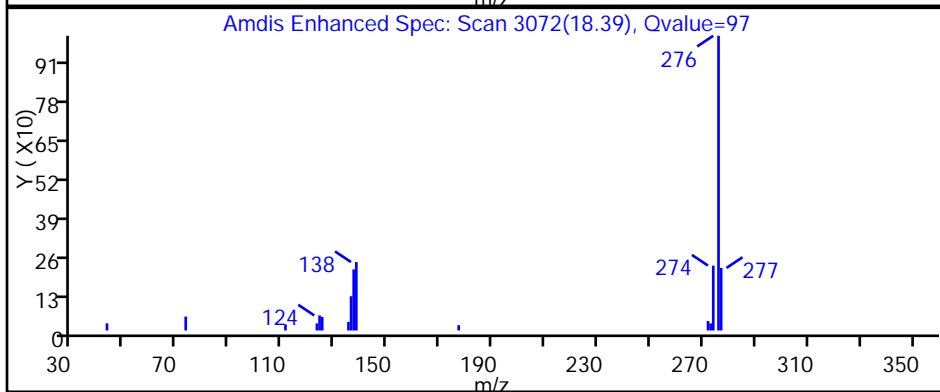
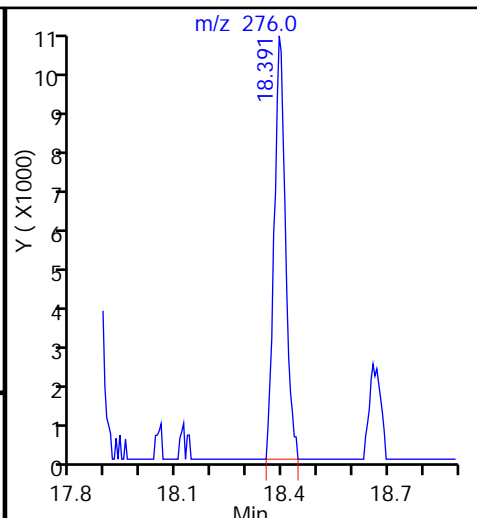
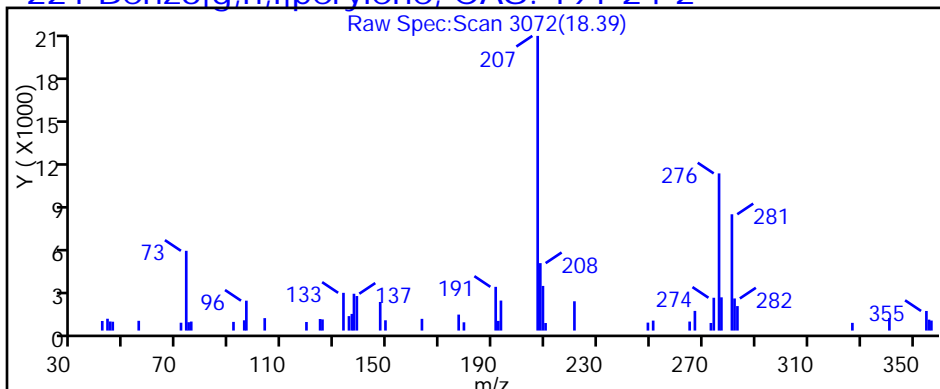
Dil. Factor: 20.0000

Method: U-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

221 Benzo[g,h,i]perylene, CAS: 191-24-2

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160330-51640.b\U25867.D

Injection Date: 30-Mar-2016 10:10:30

Instrument ID: HP5973U

Lims ID: 460-110715-B-1-D

Lab Sample ID: 480-110715-1

Client ID: C3

Operator ID: CAS

ALS Bottle#: 13

Worklist Smp#: 13

Injection Vol: 1.0 ul

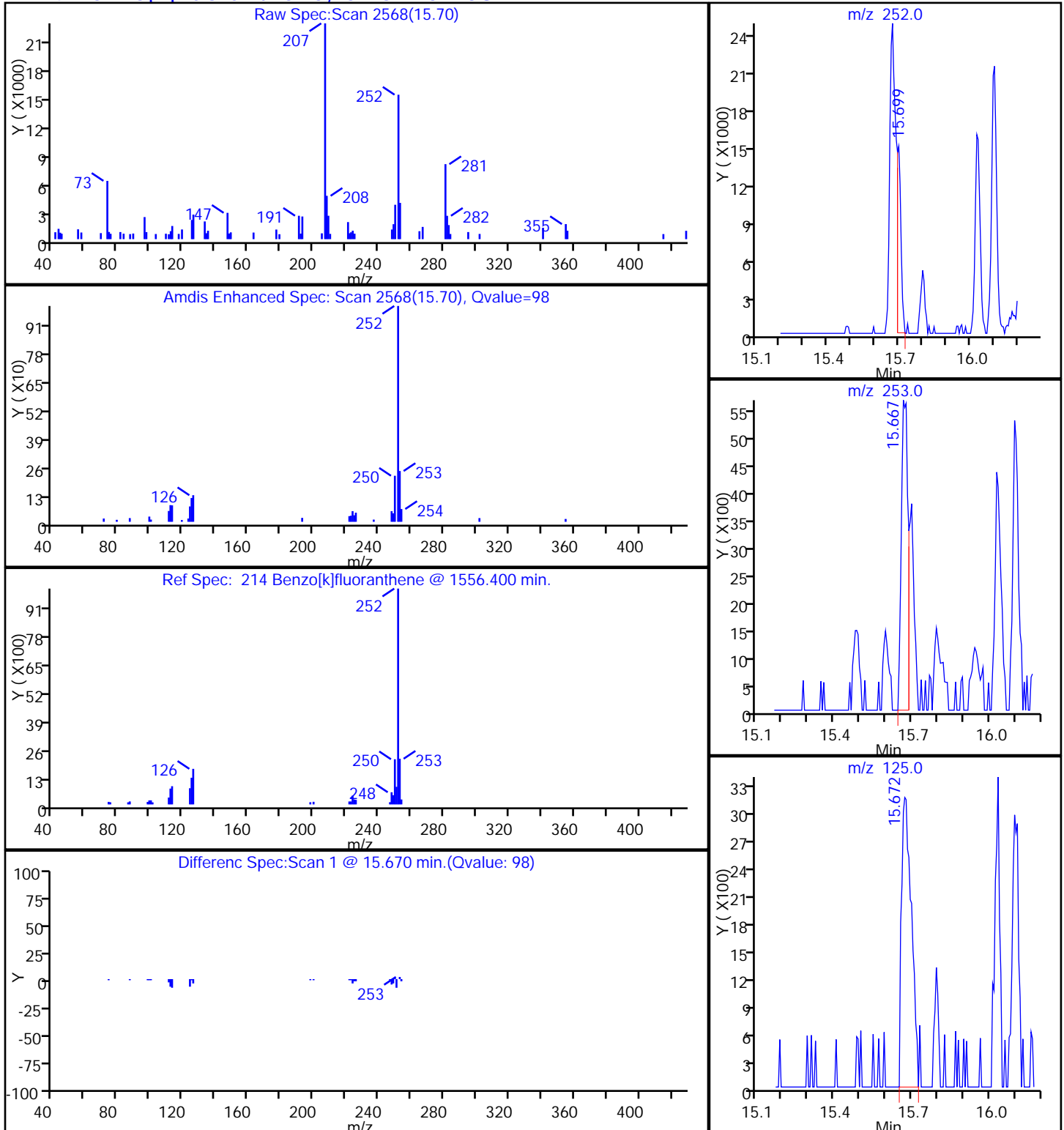
Dil. Factor: 20.0000

Method: U-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

214 Benzo[k]fluoranthene, CAS: 207-08-9

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160330-51640.b\U25867.D

Injection Date: 30-Mar-2016 10:10:30

Instrument ID: HP5973U

Lims ID: 460-110715-B-1-D

Lab Sample ID: 480-110715-1

Client ID: C3

Operator ID: CAS

ALS Bottle#: 13

Worklist Smp#: 13

Injection Vol: 1.0 ul

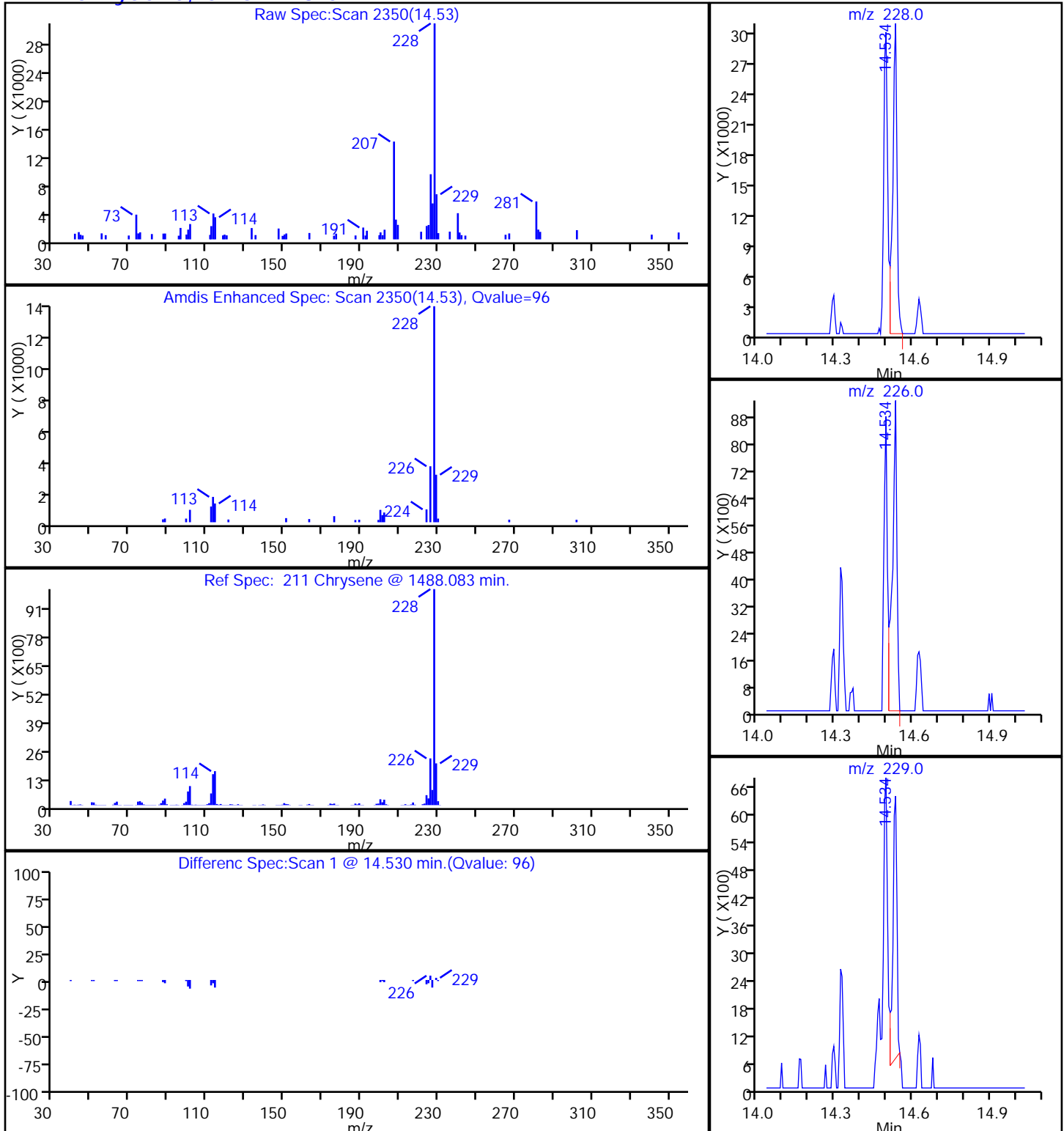
Dil. Factor: 20.0000

Method: U-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

211 Chrysene, CAS: 218-01-9

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160330-51640.b\U25867.D

Injection Date: 30-Mar-2016 10:10:30

Instrument ID: HP5973U

Lims ID: 460-110715-B-1-D

Lab Sample ID: 480-110715-1

Client ID: C3

Operator ID: CAS

ALS Bottle#: 13

Worklist Smp#: 13

Injection Vol: 1.0 ul

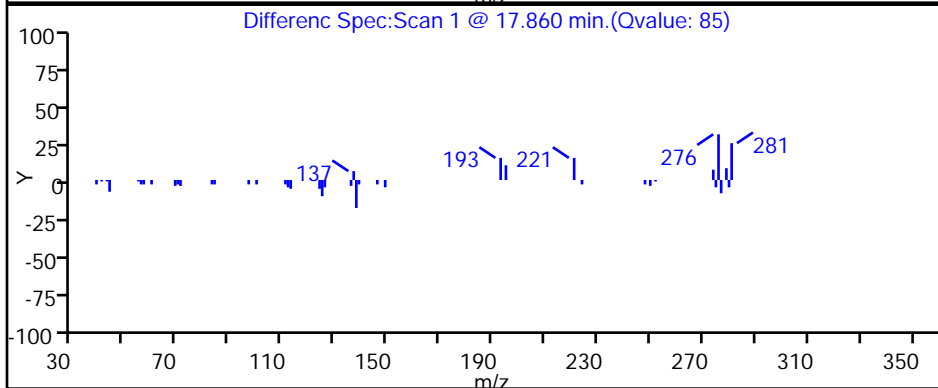
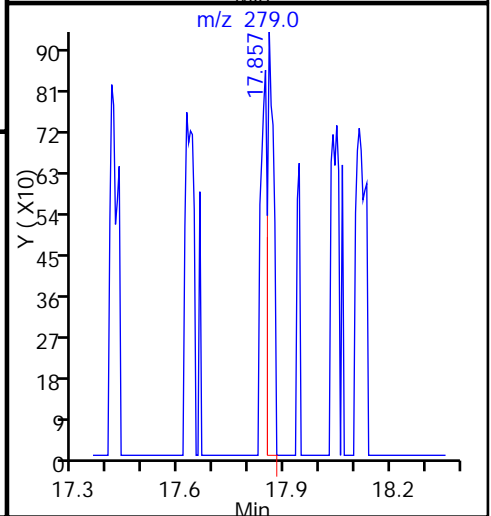
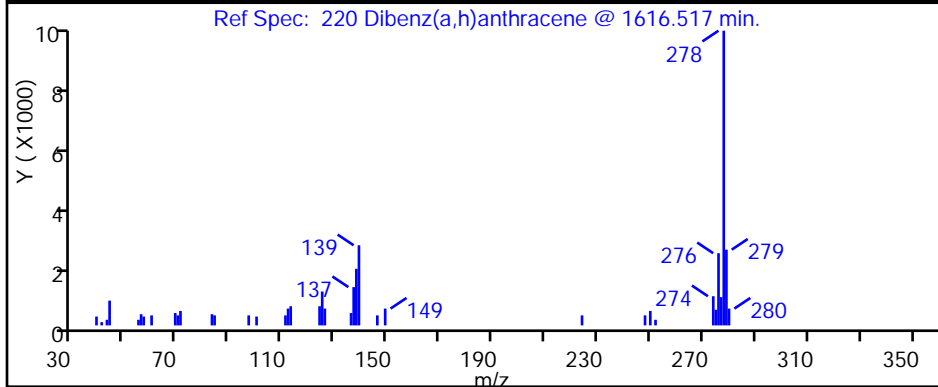
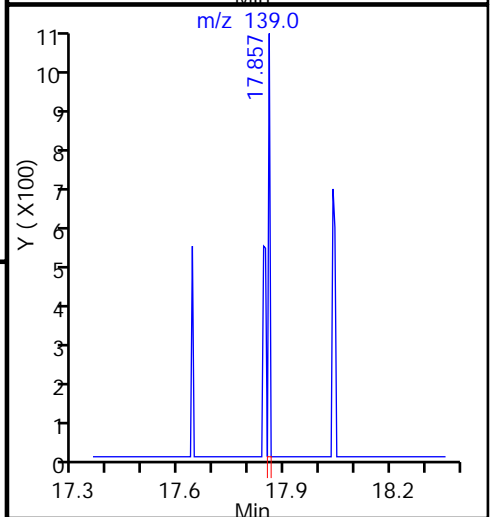
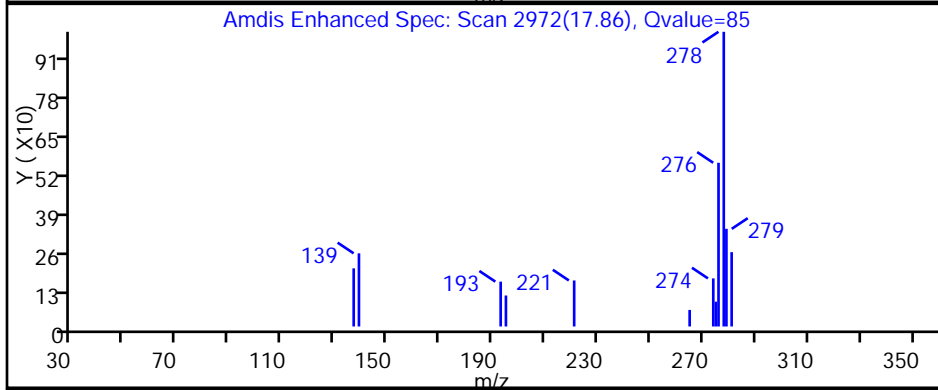
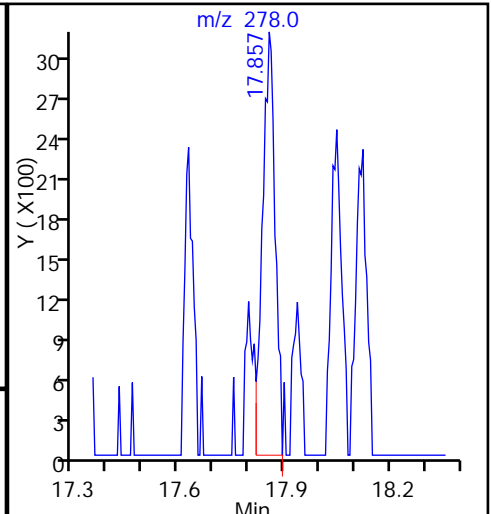
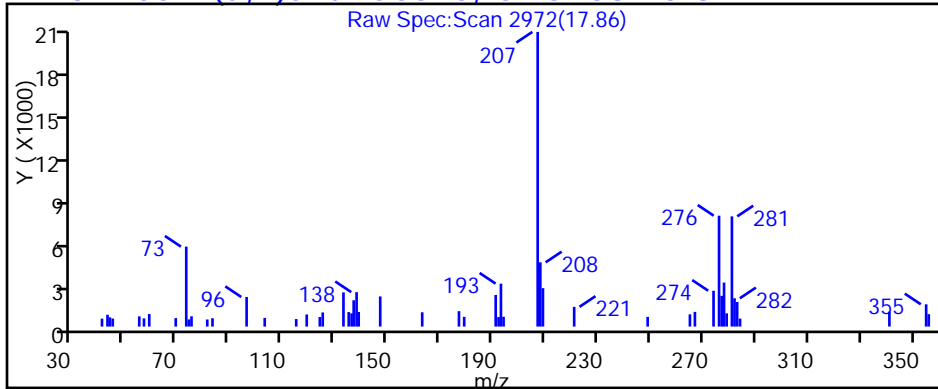
Dil. Factor: 20.0000

Method: U-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

220 Dibenz(a,h)anthracene, CAS: 53-70-3

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160330-51640.b\U25867.D

Injection Date: 30-Mar-2016 10:10:30

Instrument ID: HP5973U

Lims ID: 460-110715-B-1-D

Lab Sample ID: 480-110715-1

Client ID: C3

Operator ID: CAS

ALS Bottle#: 13

Worklist Smp#: 13

Injection Vol: 1.0 ul

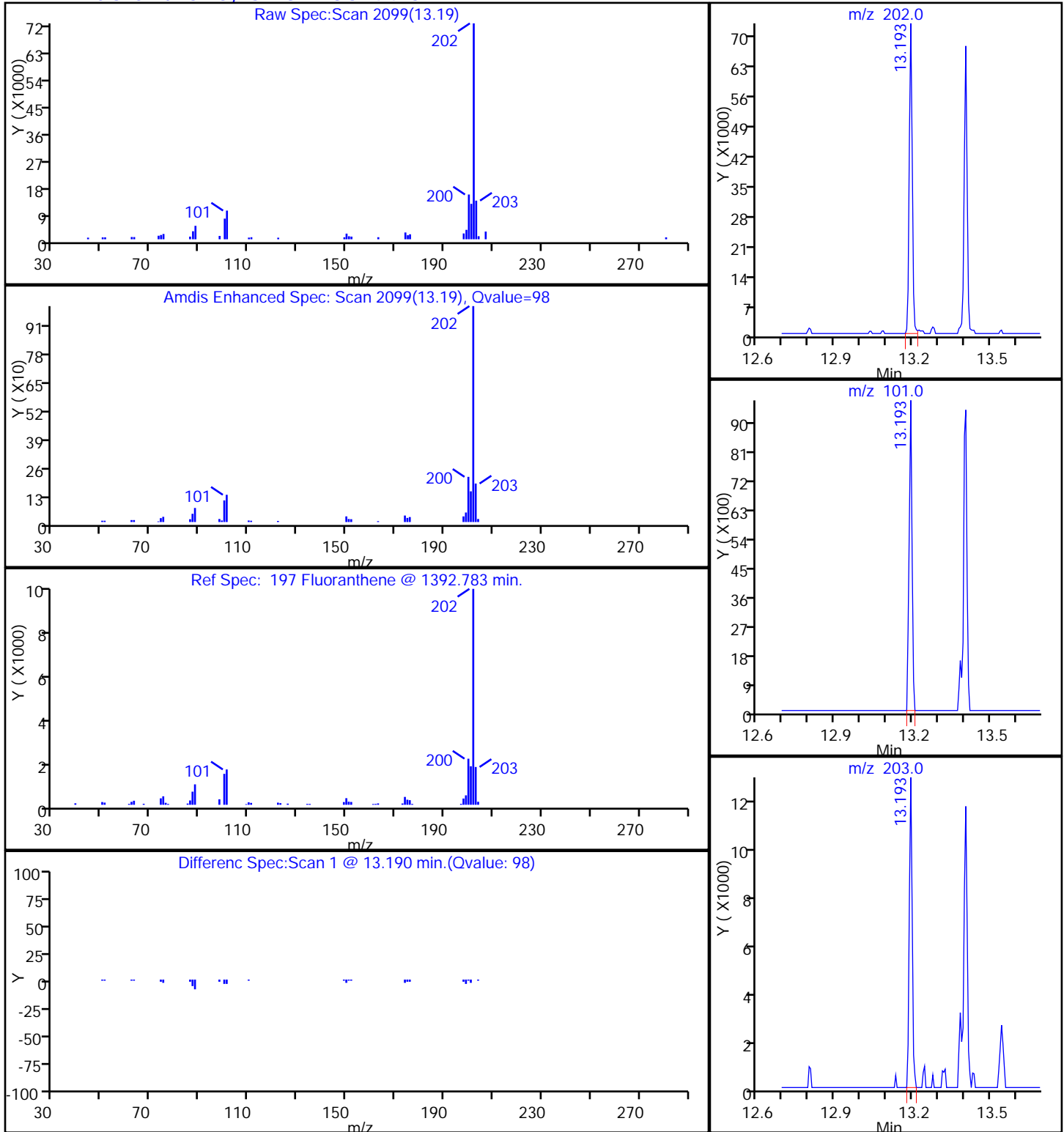
Dil. Factor: 20.0000

Method: U-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

197 Fluoranthene, CAS: 206-44-0

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160330-51640.b\U25867.D

Injection Date: 30-Mar-2016 10:10:30

Instrument ID: HP5973U

Lims ID: 460-110715-B-1-D

Lab Sample ID: 480-110715-1

Client ID: C3

Operator ID: CAS

ALS Bottle#: 13

Worklist Smp#: 13

Injection Vol: 1.0 ul

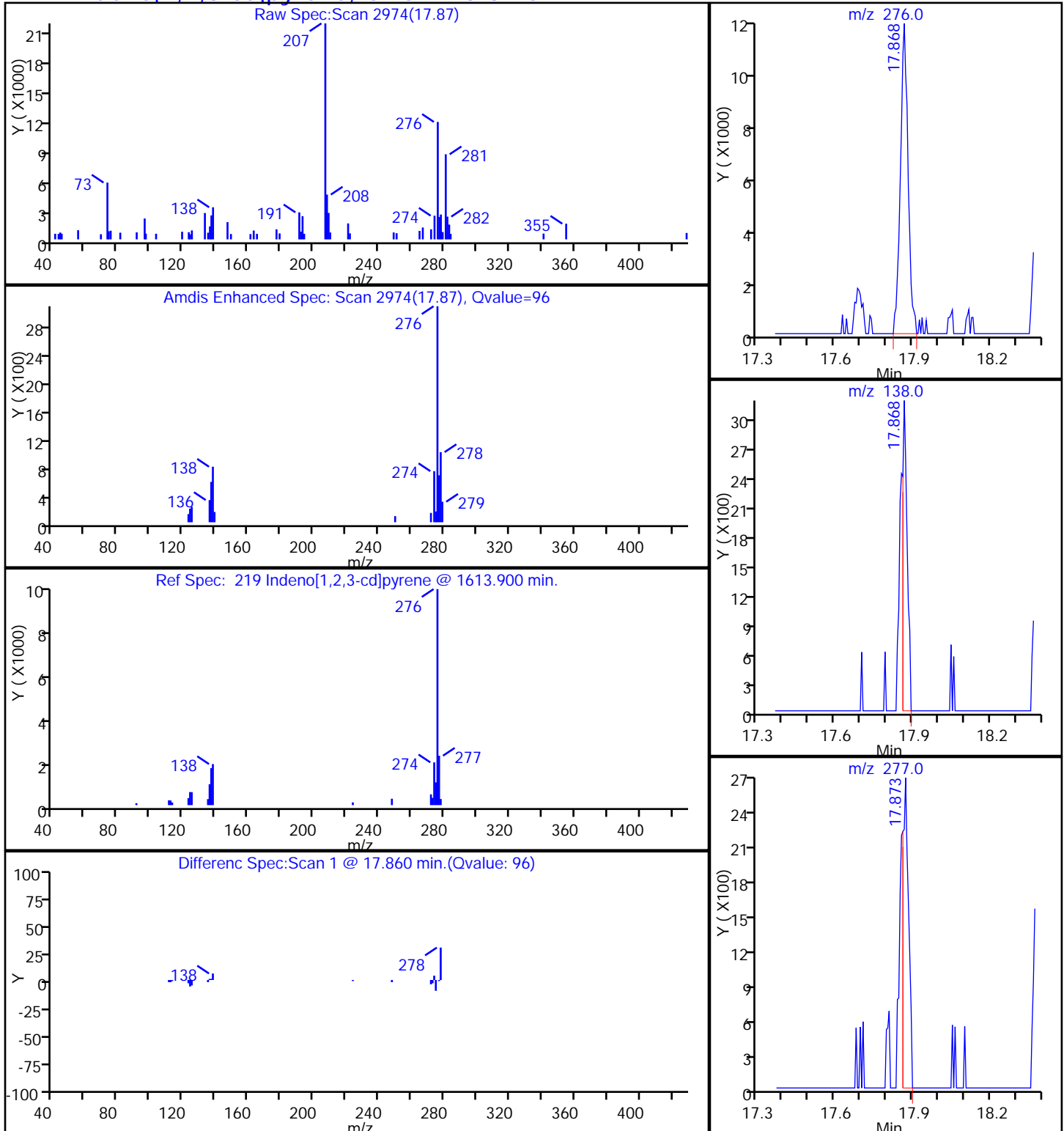
Dil. Factor: 20.0000

Method: U-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

219 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160330-51640.b\U25867.D

Injection Date: 30-Mar-2016 10:10:30

Instrument ID: HP5973U

Lims ID: 460-110715-B-1-D

Lab Sample ID: 480-110715-1

Client ID: C3

Operator ID: CAS

ALS Bottle#: 13

Worklist Smp#: 13

Injection Vol: 1.0 ul

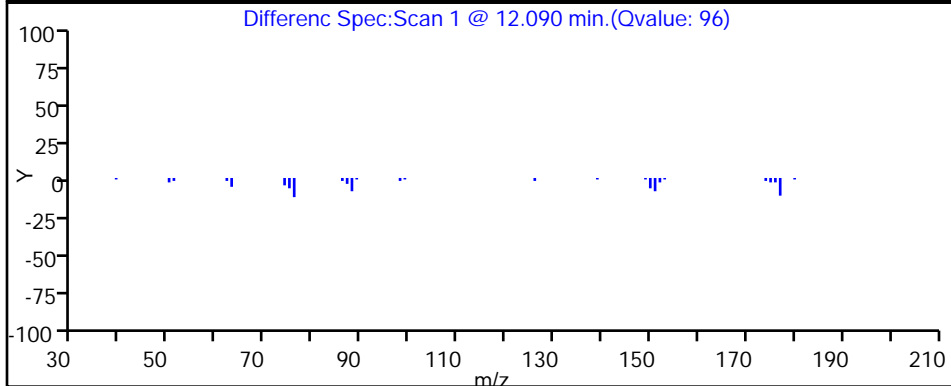
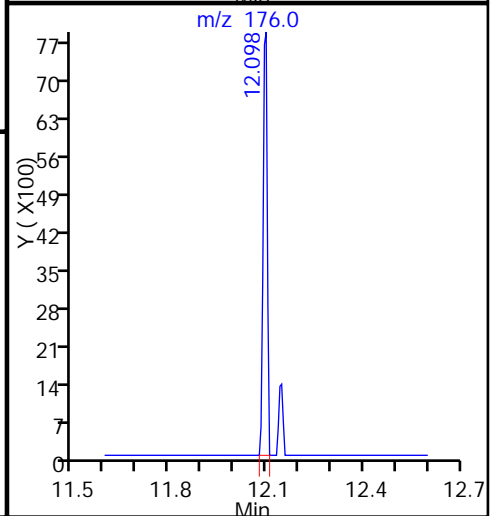
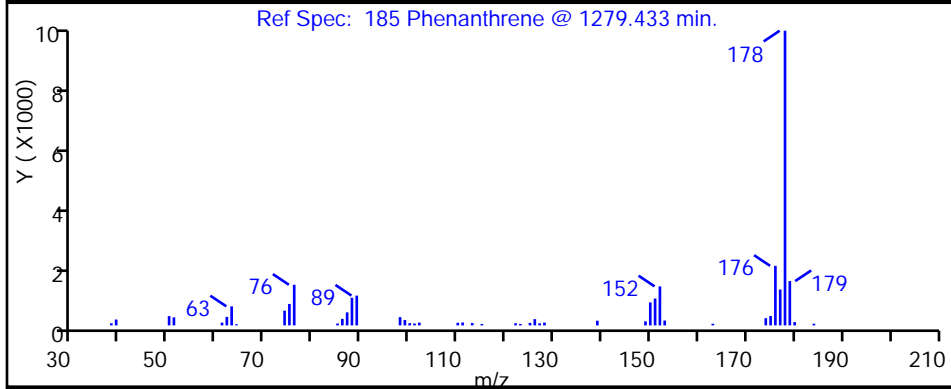
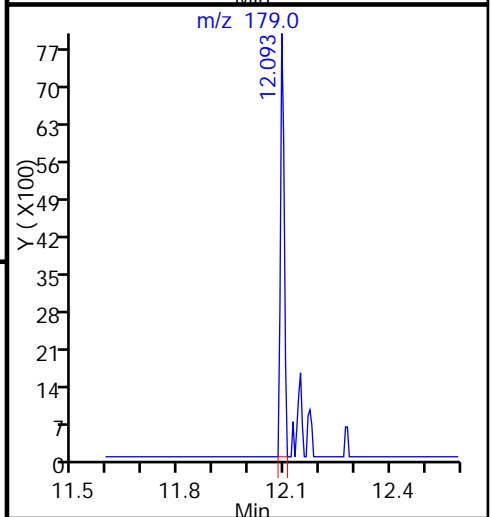
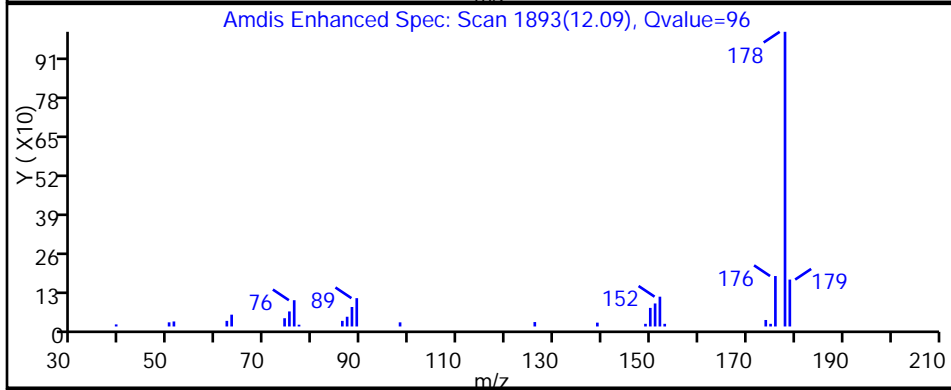
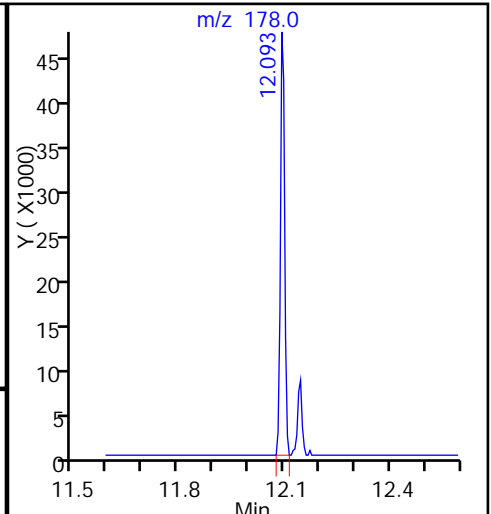
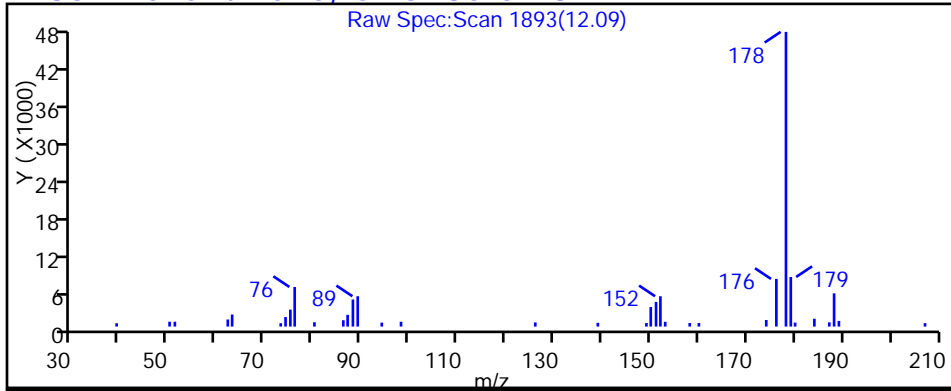
Dil. Factor: 20.0000

Method: U-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

185 Phenanthrene, CAS: 85-01-8

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160330-51640.b\U25867.D

Injection Date: 30-Mar-2016 10:10:30

Instrument ID: HP5973U

Lims ID: 460-110715-B-1-D

Lab Sample ID: 480-110715-1

Client ID: C3

Operator ID: CAS

ALS Bottle#: 13

Worklist Smp#: 13

Injection Vol: 1.0 ul

Dil. Factor: 20.0000

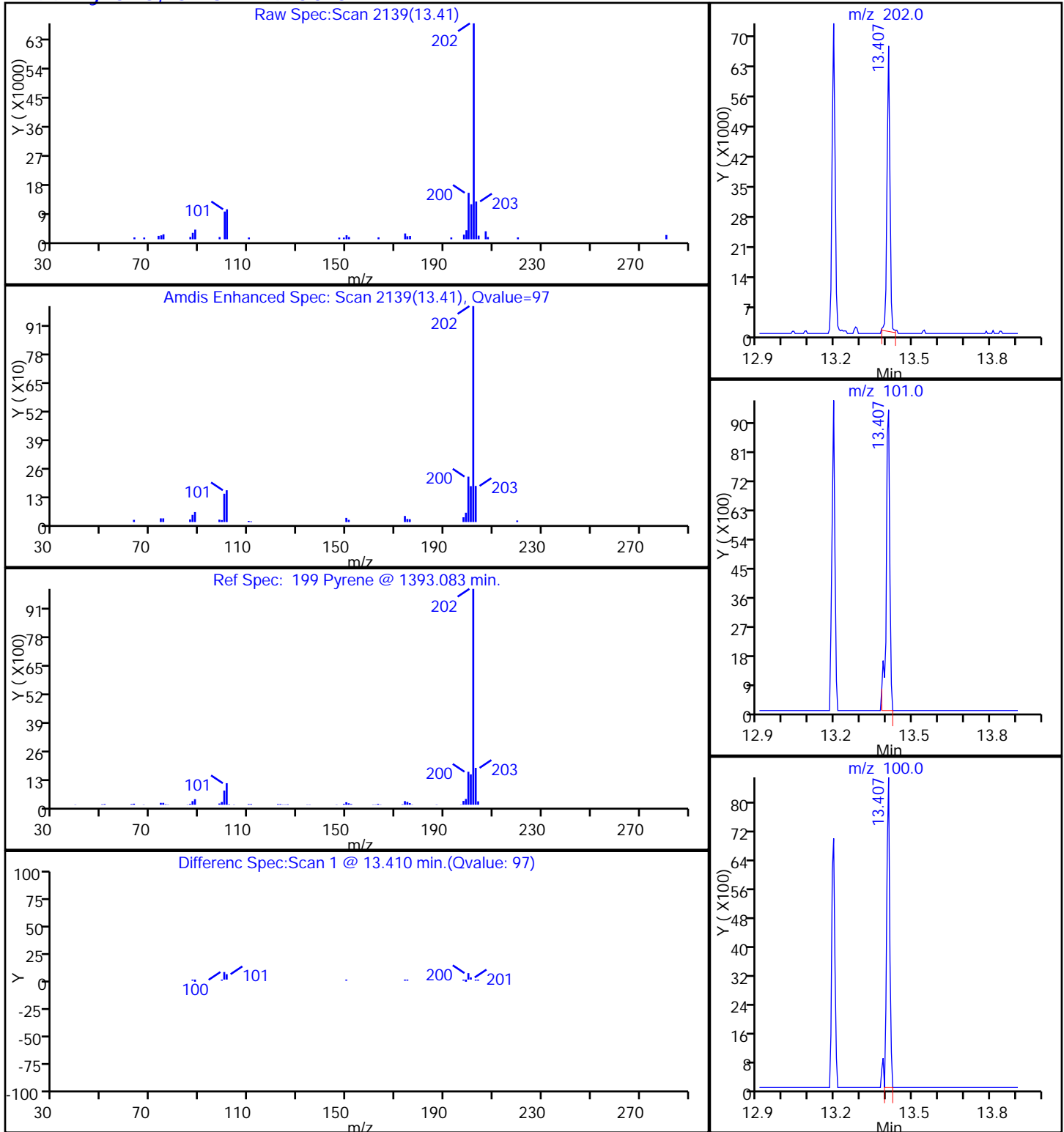
Method: U-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

199 Pyrene, CAS: 129-00-0



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160330-51640.b\U25867.D

Injection Date: 30-Mar-2016 10:10:30

Instrument ID: HP5973U

Lims ID: 460-110715-B-1-D

Lab Sample ID: 480-110715-1

Client ID: C3

Operator ID: CAS

ALS Bottle#: 13

Worklist Smp#: 13

Injection Vol: 1.0 ul

Dil. Factor: 20.0000

Method: U-8270

Limit Group: MB - 8270D ICAL

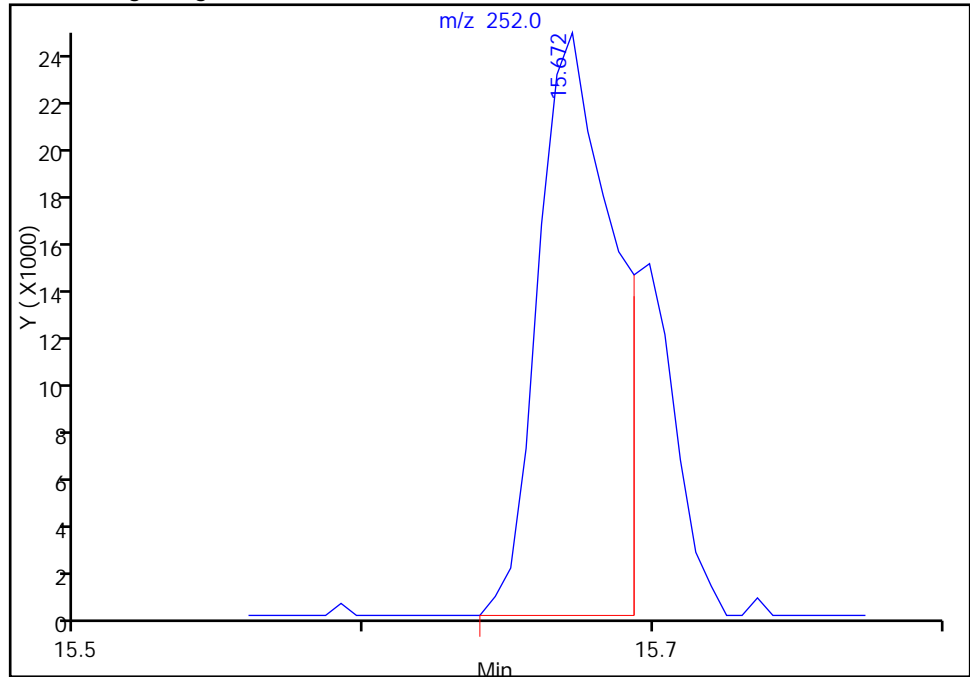
Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

214 Benzo[k]fluoranthene, CAS: 207-08-9

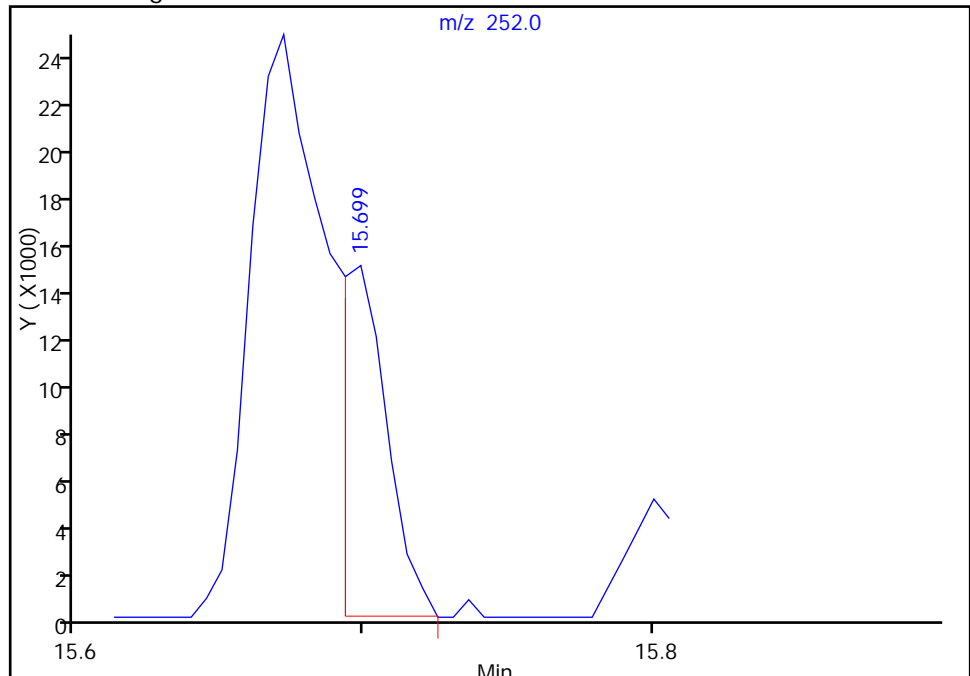
RT: 15.67
Area: 46112
Amount: 2.448643
Amount Units: ng/uL

Processing Integration Results



RT: 15.70
Area: 16672
Amount: 0.885318
Amount Units: ng/uL

Manual Integration Results



Reviewer: richardsd, 30-Mar-2016 13:29:52

Audit Action: Manually Integrated

Audit Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>460-110715-1</u>
SDG No.: _____	
Client Sample ID: <u>C4</u>	Lab Sample ID: <u>460-110715-2</u>
Matrix: <u>Solid</u>	Lab File ID: <u>U25868.D</u>
Analysis Method: <u>8270D</u>	Date Collected: <u>03/18/2016 12:20</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>03/29/2016 16:12</u>
Sample wt/vol: <u>30.76(g)</u>	Date Analyzed: <u>03/30/2016 10:37</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>20</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>15.5</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>293176</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	3900	U	3900	580
95-94-3	1,2,4,5-Tetrachlorobenzene	3900	U	3900	670
108-60-1	2,2'-oxybis[1-chloropropane]	3900	U	3900	780
58-90-2	2,3,4,6-Tetrachlorophenol	3900	U *	3900	810
95-95-4	2,4,5-Trichlorophenol	3900	U	3900	1100
88-06-2	2,4,6-Trichlorophenol	3900	U	3900	780
120-83-2	2,4-Dichlorophenol	3900	U	3900	420
105-67-9	2,4-Dimethylphenol	3900	U	3900	950
51-28-5	2,4-Dinitrophenol	38000	U *	38000	18000
121-14-2	2,4-Dinitrotoluene	3900	U	3900	810
606-20-2	2,6-Dinitrotoluene	3900	U	3900	460
91-58-7	2-Chloronaphthalene	3900	U	3900	650
95-57-8	2-Chlorophenol	3900	U	3900	720
91-57-6	2-Methylnaphthalene	3900	U	3900	780
95-48-7	2-Methylphenol	3900	U	3900	460
88-74-4	2-Nitroaniline	7600	U	7600	580
88-75-5	2-Nitrophenol	3900	U	3900	1100
91-94-1	3,3'-Dichlorobenzidine	7600	U	7600	4600
99-09-2	3-Nitroaniline	7600	U	7600	1100
534-52-1	4,6-Dinitro-2-methylphenol	7600	U	7600	3900
101-55-3	4-Bromophenyl phenyl ether	3900	U	3900	550
59-50-7	4-Chloro-3-methylphenol	3900	U	3900	970
106-47-8	4-Chloroaniline	3900	U	3900	970
7005-72-3	4-Chlorophenyl phenyl ether	3900	U	3900	480
106-44-5	4-Methylphenol	7600	U	7600	460
100-01-6	4-Nitroaniline	7600	U	7600	2100
100-02-7	4-Nitrophenol	7600	U	7600	2700
83-32-9	Acenaphthene	3900	U	3900	580
208-96-8	Acenaphthylene	3900	U	3900	510
98-86-2	Acetophenone	3900	U *	3900	530
120-12-7	Anthracene	3900	U	3900	970
1912-24-9	Atrazine	3900	U	3900	1400
100-52-7	Benzaldehyde	3900	U *	3900	3100
56-55-3	Benzo[a]anthracene	1200	J	3900	390

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>460-110715-1</u>
SDG No.: _____	
Client Sample ID: <u>C4</u>	Lab Sample ID: <u>460-110715-2</u>
Matrix: <u>Solid</u>	Lab File ID: <u>U25868.D</u>
Analysis Method: <u>8270D</u>	Date Collected: <u>03/18/2016 12:20</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>03/29/2016 16:12</u>
Sample wt/vol: <u>30.76(g)</u>	Date Analyzed: <u>03/30/2016 10:37</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>20</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>15.5</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>293176</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
50-32-8	Benzo[a]pyrene	1000	J	3900	580
205-99-2	Benzo[b]fluoranthene	1400	J	3900	620
191-24-2	Benzo[g,h,i]perylene	2100	J	3900	420
207-08-9	Benzo[k]fluoranthene	680	J	3900	510
111-91-1	Bis(2-chloroethoxy)methane	3900	U	3900	830
111-44-4	Bis(2-chloroethyl)ether	3900	U	3900	510
117-81-7	Bis(2-ethylhexyl) phthalate	3900	U	3900	1300
85-68-7	Butyl benzyl phthalate	3900	U	3900	650
105-60-2	Caprolactam	3900	U	3900	1200
86-74-8	Carbazole	3900	U	3900	460
218-01-9	Chrysene	1300	J	3900	880
53-70-3	Dibenz(a,h)anthracene	1700	J	3900	690
132-64-9	Dibenzofuran	3900	U	3900	460
84-66-2	Diethyl phthalate	3900	U	3900	510
131-11-3	Dimethyl phthalate	3900	U	3900	460
84-74-2	Di-n-butyl phthalate	3900	U	3900	670
117-84-0	Di-n-octyl phthalate	3900	U	3900	460
206-44-0	Fluoranthene	2700	J	3900	420
86-73-7	Fluorene	3900	U	3900	460
118-74-1	Hexachlorobenzene	3900	U	3900	530
87-68-3	Hexachlorobutadiene	3900	U	3900	580
77-47-4	Hexachlorocyclopentadiene	3900	U	3900	530
67-72-1	Hexachloroethane	3900	U	3900	510
193-39-5	Indeno[1,2,3-cd]pyrene	2000	J	3900	480
78-59-1	Isophorone	3900	U	3900	830
91-20-3	Naphthalene	3900	U	3900	510
98-95-3	Nitrobenzene	3900	U	3900	440
621-64-7	N-Nitrosodi-n-propylamine	3900	U	3900	670
86-30-6	N-Nitrosodiphenylamine	3900	U	3900	3200
87-86-5	Pentachlorophenol	7600	U	7600	3900
85-01-8	Phenanthrene	2300	J	3900	580
108-95-2	Phenol	3900	U	3900	600
129-00-0	Pyrene	1900	J	3900	460

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 460-110715-1
SDG No.: _____
Client Sample ID: C4 Lab Sample ID: 460-110715-2
Matrix: Solid Lab File ID: U25868.D
Analysis Method: 8270D Date Collected: 03/18/2016 12:20
Extract. Method: 3546 Date Extracted: 03/29/2016 16:12
Sample wt/vol: 30.76(g) Date Analyzed: 03/30/2016 10:37
Con. Extract Vol.: 1(mL) Dilution Factor: 20
Injection Volume: 1(uL) Level: (low/med) Low
% Moisture: 15.5 GPC Cleanup: (Y/N) N
Analysis Batch No.: 293176 Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	144		39-146
321-60-8	2-Fluorobiphenyl	67		37-120
367-12-4	2-Fluorophenol (Surr)	63		18-120
4165-60-0	Nitrobenzene-d5 (Surr)	55		34-132
4165-62-2	Phenol-d5 (Surr)	61		11-120
1718-51-0	p-Terphenyl-d14 (Surr)	61	*	65-153

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160330-51640.b\U25868.D
 Lims ID: 460-110715-B-2-B Lab Sample ID: 480-110715-2
 Client ID: C4
 Sample Type: Client
 Inject. Date: 30-Mar-2016 10:37:30 ALS Bottle#: 14 Worklist Smp#: 14
 Injection Vol: 1.0 ul Dil. Factor: 20.0000
 Sample Info: 480-0051640-014
 Misc. Info.: 480-97201-A-1-A
 Operator ID: CAS Instrument ID: HP5973U
 Method: \\ChromNA\Buffalo\ChromData\HP5973U\20160330-51640.b\U-8270.m
 Limit Group: MB - 8270D ICAL
 Last Update: 30-Mar-2016 13:44:50 Calib Date: 15-Mar-2016 21:31:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U25648.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK047

First Level Reviewer: richardsd

Date: 30-Mar-2016 13:31:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.986	6.980	0.006	96	120649	40.0	
* 2 Naphthalene-d8	136	8.497	8.497	0.000	100	456178	40.0	
* 3 Acenaphthene-d10	164	10.559	10.559	0.000	96	251803	40.0	
* 4 Phenanthrene-d10	188	12.071	12.071	0.000	97	425892	40.0	
* 5 Chrysene-d12	240	14.507	14.507	0.000	97	537486	40.0	
* 6 Perylene-d12	264	16.180	16.179	0.001	97	650473	40.0	
\$ 9 2-Fluorophenol	112	5.410	5.404	0.006	92	5214	1.25	
\$ 10 Phenol-d5	99	6.499	6.505	-0.006	88	6184	1.22	
\$ 11 Nitrobenzene-d5	82	7.627	7.627	0.000	94	4953	1.09	
\$ 12 2-Fluorobiphenyl	172	9.763	9.763	0.000	96	11302	1.35	
\$ 13 2,4,6-Tribromophenol	330	11.382	11.388	-0.006	1	1374	2.87	
\$ 14 p-Terphenyl-d14	244	13.492	13.498	-0.006	41	14431	1.22	
88 Benzaldehyde	77		6.457				ND	
89 Phenol	94		6.521				ND	
91 Bis(2-chloroethyl)ether	93		6.628				ND	
93 2-Chlorophenol	128		6.740				ND	
98 2-Methylphenol	108		7.242				ND	
99 2,2'-oxybis[1-chloropropan	45		7.274				ND	
102 4-Methylphenol	108		7.413				ND	
101 N-Nitrosodi-n-propylamine	70		7.424				ND	
104 Acetophenone	105		7.440				ND	
106 Hexachloroethane	117		7.600				ND	
107 Nitrobenzene	77		7.648				ND	
110 Isophorone	82		7.920				ND	
111 2-Nitrophenol	139		8.033				ND	
112 2,4-Dimethylphenol	107		8.049				ND	
115 Bis(2-chloroethoxy)methane	93		8.155				ND	
117 2,4-Dichlorophenol	162		8.316				ND	
121 Naphthalene	128		8.524				ND	
123 4-Chloroaniline	127		8.561				ND	
126 Hexachlorobutadiene	225		8.668				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
127 Caprolactam	113		8.941				ND	
131 4-Chloro-3-methylphenol	107		9.122				ND	
133 2-Methylnaphthalene	142		9.347				ND	
136 Hexachlorocyclopentadiene	237		9.544				ND	
138 1,2,4,5-Tetrachlorobenzene	216		9.550				ND	
139 2,4,6-Trichlorophenol	196		9.673				ND	
140 2,4,5-Trichlorophenol	196		9.721				ND	
144 1,1'-Biphenyl	154		9.886				ND	
143 2-Chloronaphthalene	162		9.929				ND	
145 2-Nitroaniline	65		10.020				ND	
147 Dimethyl phthalate	163		10.207				ND	
148 2,6-Dinitrotoluene	165		10.282				ND	
149 Acenaphthylene	152		10.405				ND	
150 3-Nitroaniline	138		10.479				ND	
152 2,4-Dinitrophenol	184		10.592				ND	
151 Acenaphthene	153	10.592	10.592	0.000	88	1552	0.2195	
153 4-Nitrophenol	109		10.645				ND	
154 2,4-Dinitrotoluene	165		10.730				ND	
155 Dibenzofuran	168		10.778				ND	
158 2,3,4,6-Tetrachlorophenol	232		10.901				ND	
160 Diethyl phthalate	149		10.965				ND	
162 4-Chlorophenyl phenyl ethe	204		11.115				ND	
164 4-Nitroaniline	138		11.131				ND	
161 Fluorene	166		11.136				ND	
166 4,6-Dinitro-2-methylphenol	198		11.163				ND	
167 N-Nitrosodiphenylamine	169		11.233				ND	
176 4-Bromophenyl phenyl ether	248		11.612				ND	
177 Hexachlorobenzene	284		11.708				ND	
180 Atrazine	200		11.735				ND	
181 Pentachlorophenol	266		11.890				ND	
185 Phenanthrene	178	12.098	12.098	0.000	96	34935	2.94	
188 Anthracene	178	12.146	12.146	0.000	94	7444	0.6090	
189 Carbazole	167	12.280	12.280	0.000	1	2870	0.2571	
192 Di-n-butyl phthalate	149		12.541				ND	
197 Fluoranthene	202	13.193	13.193	0.000	96	44954	3.50	
199 Pyrene	202	13.407	13.407	0.000	95	38015	2.53	
205 Butyl benzyl phthalate	149		13.893				ND	
210 Bis(2-ethylhexyl) phthalat	149		14.379				ND	
208 3,3'-Dichlorobenzidine	252		14.427				ND	
209 Benzo[a]anthracene	228	14.497	14.497	0.000	96	24355	1.59	
211 Chrysene	228	14.534	14.534	0.000	96	25207	1.69	
212 Di-n-octyl phthalate	149		15.004				ND	
213 Benzo[b]fluoranthene	252	15.667	15.672	-0.005	97	35109	1.84	
214 Benzo[k]fluoranthene	252	15.699	15.704	-0.005	98	17206	0.8804	M
217 Benzo[a]pyrene	252	16.105	16.110	-0.005	95	23217	1.30	
220 Dibenz(a,h)anthracene	278	17.857	17.873	-0.016	53	5773	2.21	
219 Indeno[1,2,3-cd]pyrene	276	17.868	17.884	-0.016	95	19232	2.63	
221 Benzo[g,h,i]perylene	276	18.397	18.407	-0.010	96	19260	2.68	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MB_INTSTD_STK_00019

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160330-51640.b\U25868.D

Injection Date: 30-Mar-2016 10:37:30

Instrument ID: HP5973U

Operator ID: CAS

Lims ID: 460-110715-B-2-B

Lab Sample ID: 480-110715-2

Worklist Smp#: 14

Client ID: C4

Injection Vol: 1.0 ul

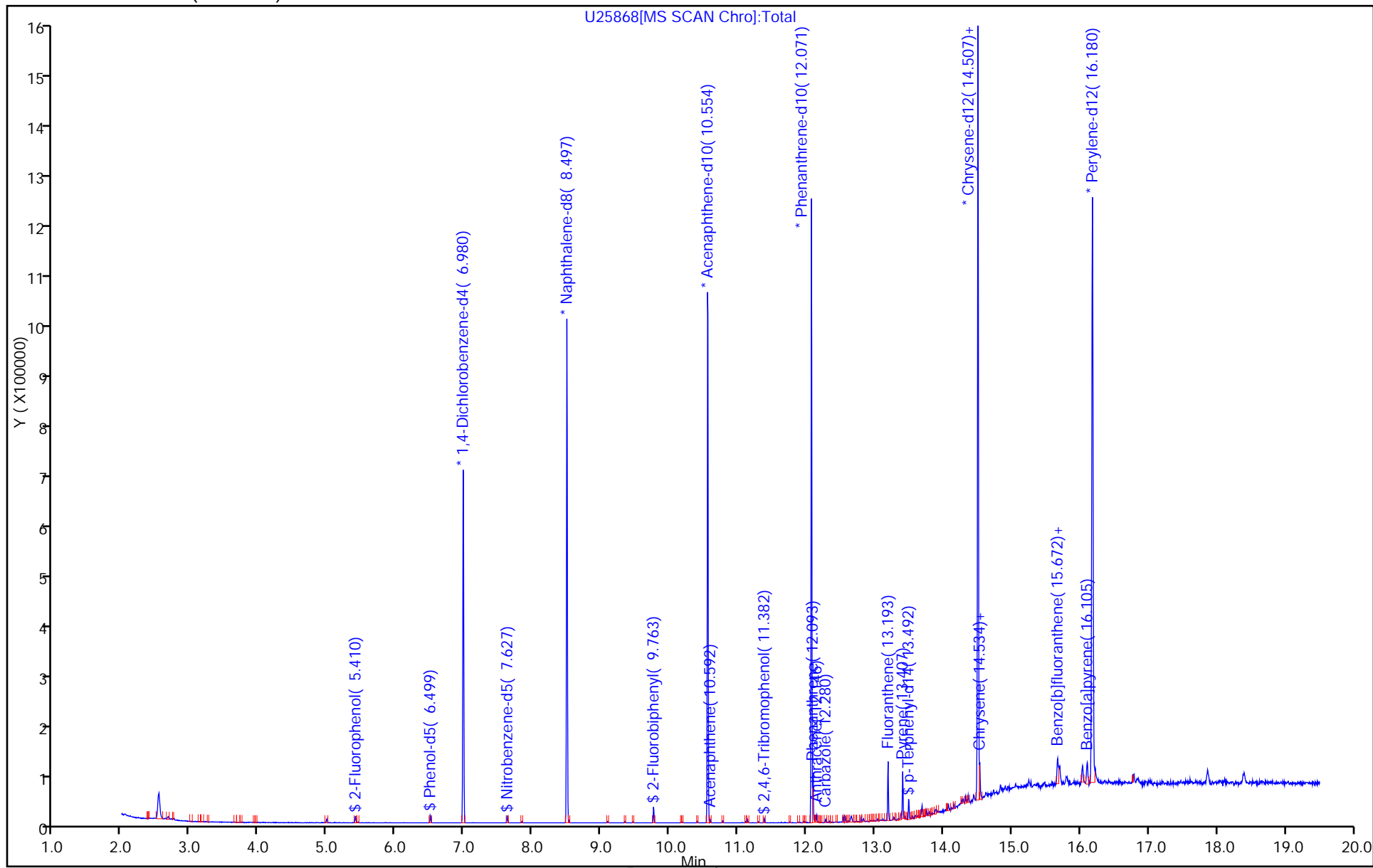
Dil. Factor: 20.0000

ALS Bottle#: 14

Method: U-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973U\\20160330-51640.b\\U25868.D

Injection Date: 30-Mar-2016 10:37:30

Instrument ID: HP5973U

Lims ID: 460-110715-B-2-B

Lab Sample ID: 480-110715-2

Client ID: C4

Operator ID: CAS

ALS Bottle#: 14

Worklist Smp#: 14

Injection Vol: 1.0 ul

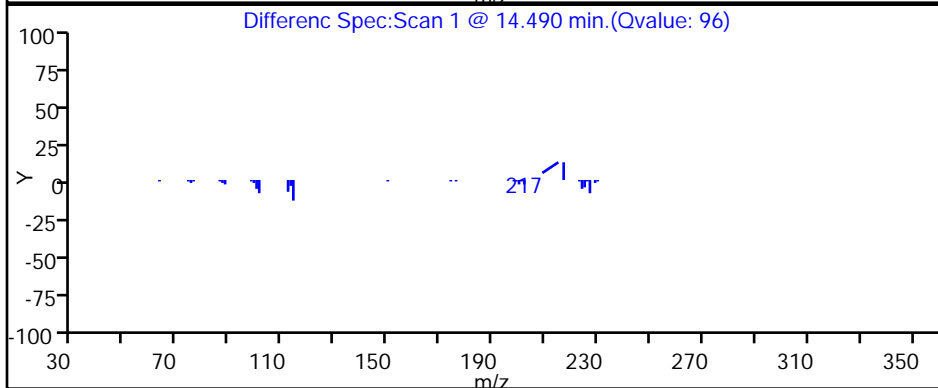
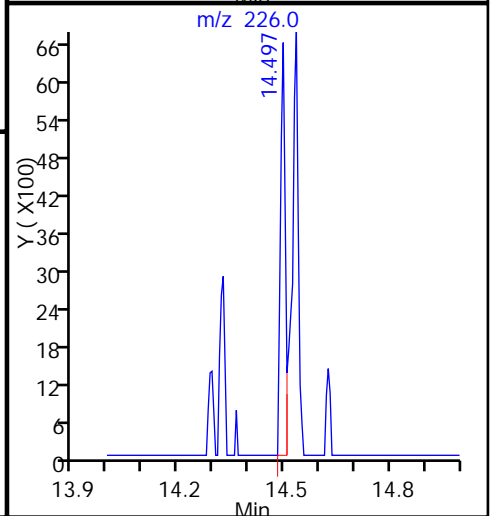
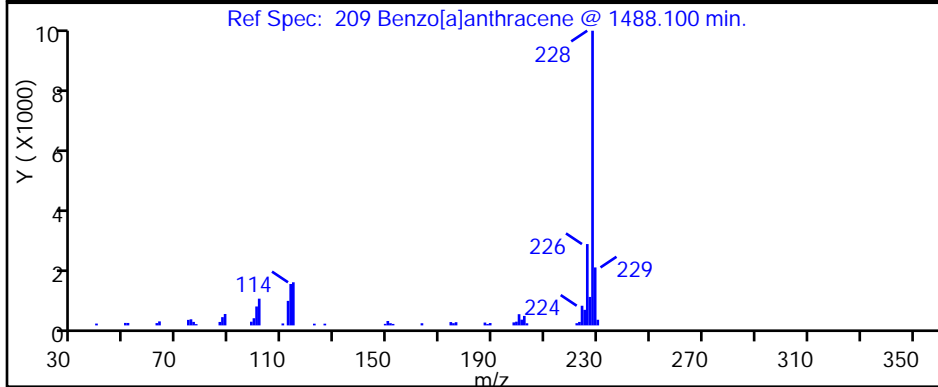
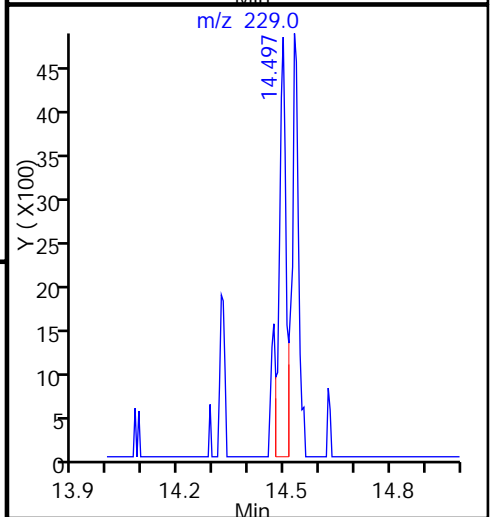
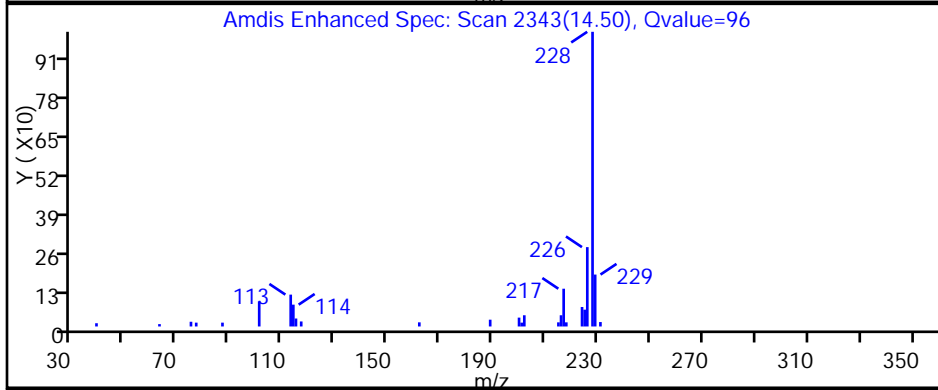
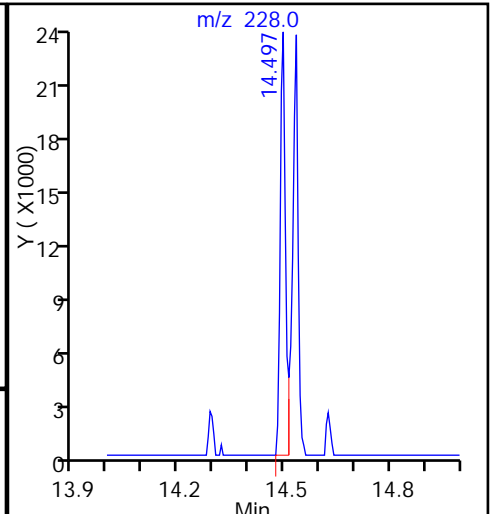
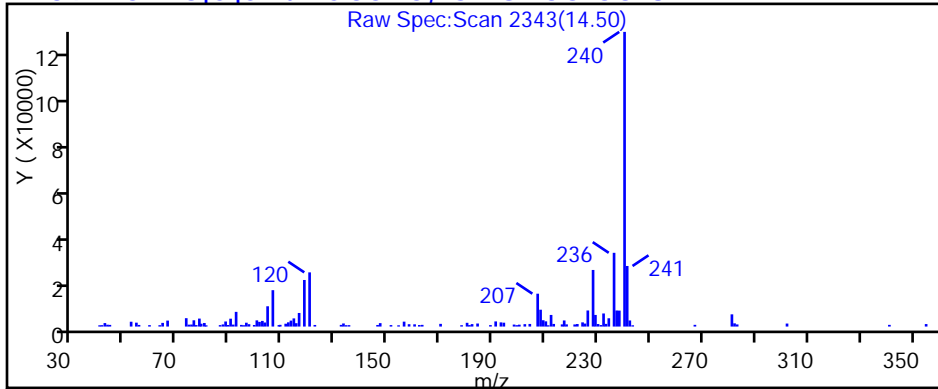
Dil. Factor: 20.0000

Method: U-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

209 Benzo[a]anthracene, CAS: 56-55-3

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160330-51640.b\U25868.D

Injection Date: 30-Mar-2016 10:37:30

Instrument ID: HP5973U

Lims ID: 460-110715-B-2-B

Lab Sample ID: 480-110715-2

Client ID: C4

Operator ID: CAS

ALS Bottle#: 14

Worklist Smp#: 14

Injection Vol: 1.0 ul

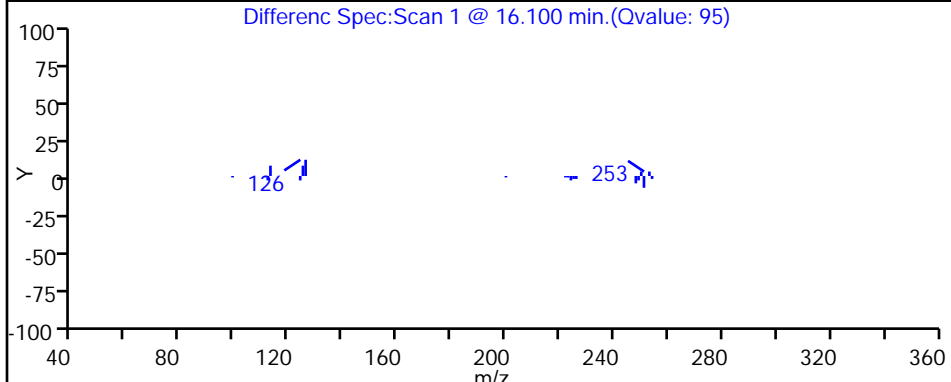
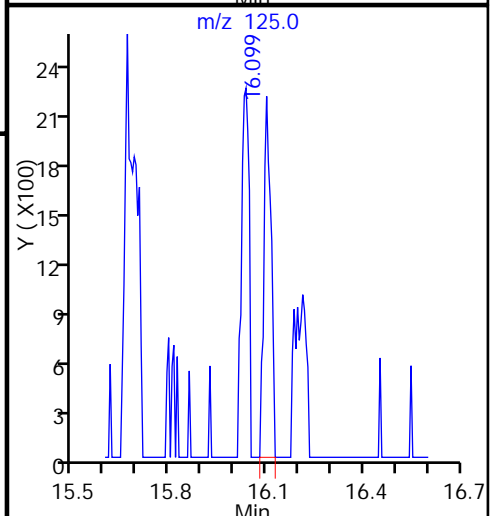
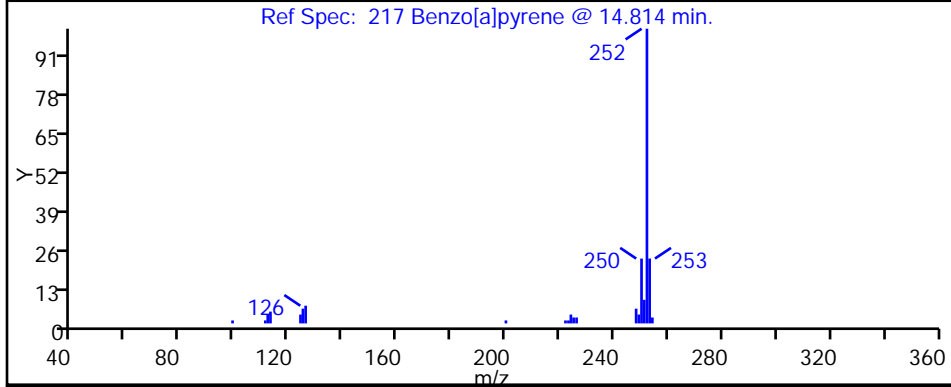
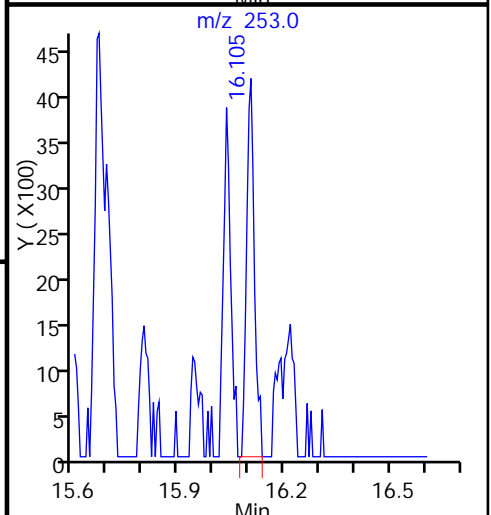
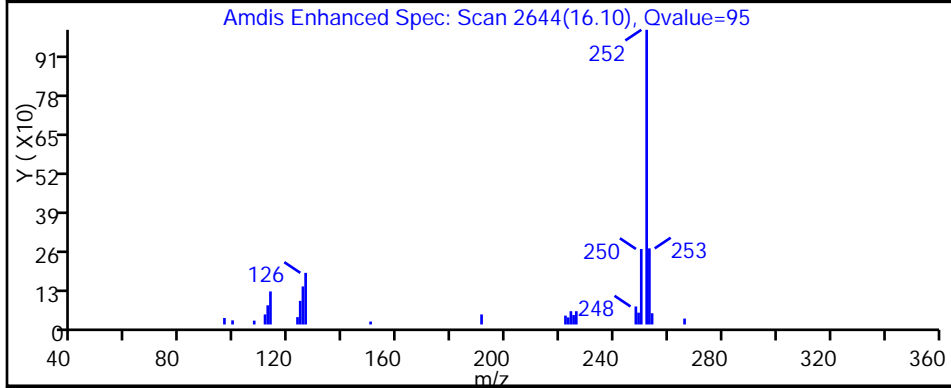
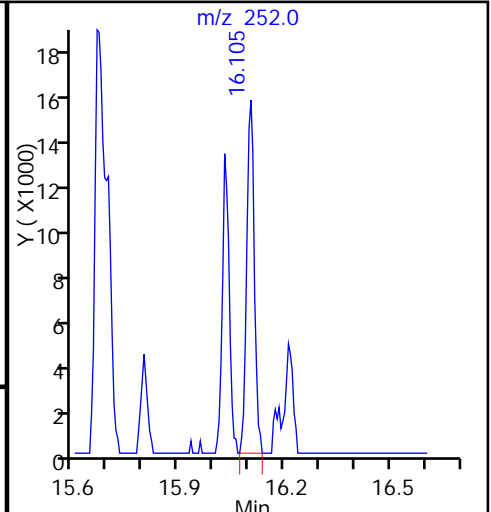
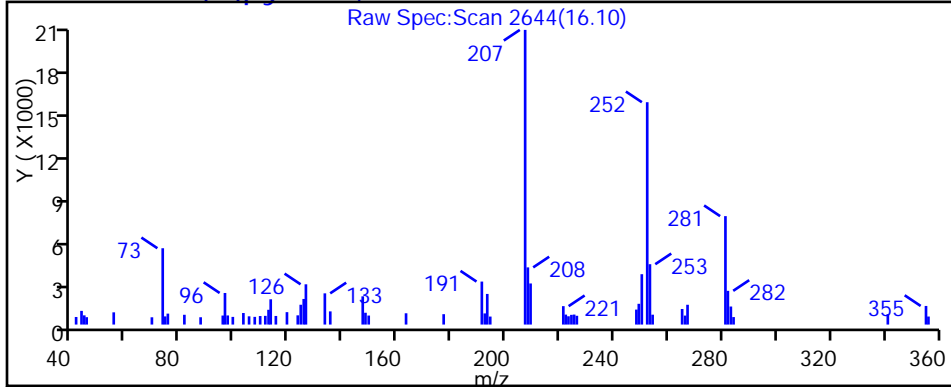
Dil. Factor: 20.0000

Method: U-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

217 Benzo[a]pyrene, CAS: 50-32-8

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160330-51640.b\U25868.D

Injection Date: 30-Mar-2016 10:37:30

Instrument ID: HP5973U

Lims ID: 460-110715-B-2-B

Lab Sample ID: 480-110715-2

Client ID: C4

Operator ID: CAS

ALS Bottle#: 14

Worklist Smp#: 14

Injection Vol: 1.0 ul

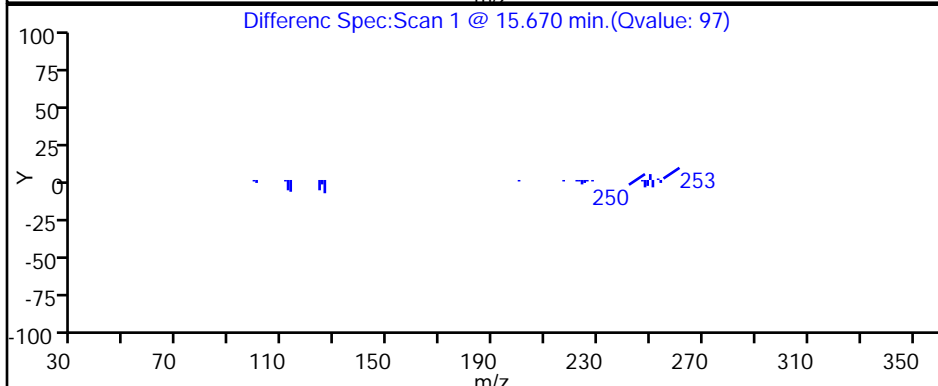
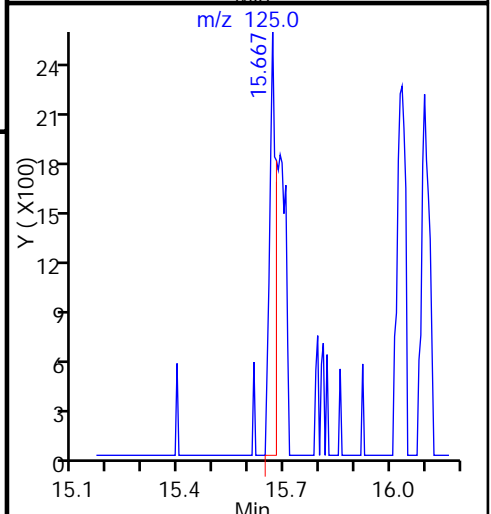
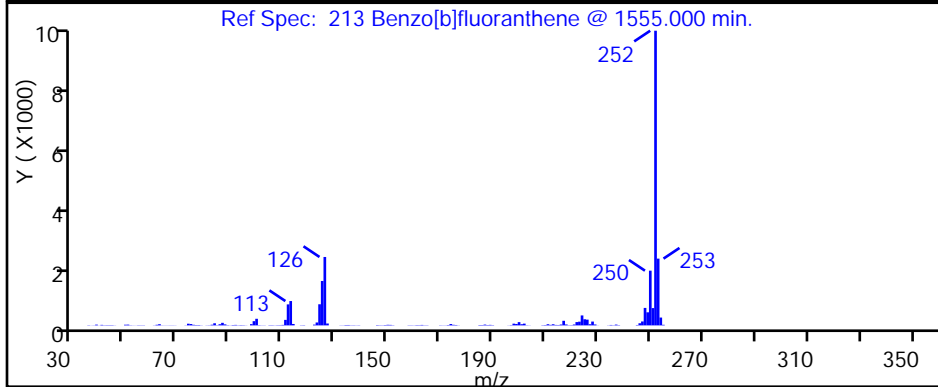
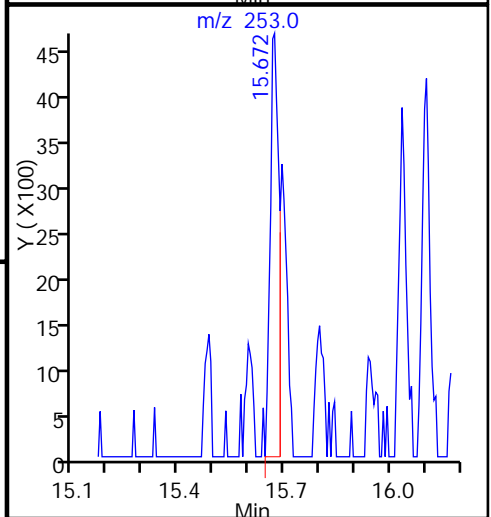
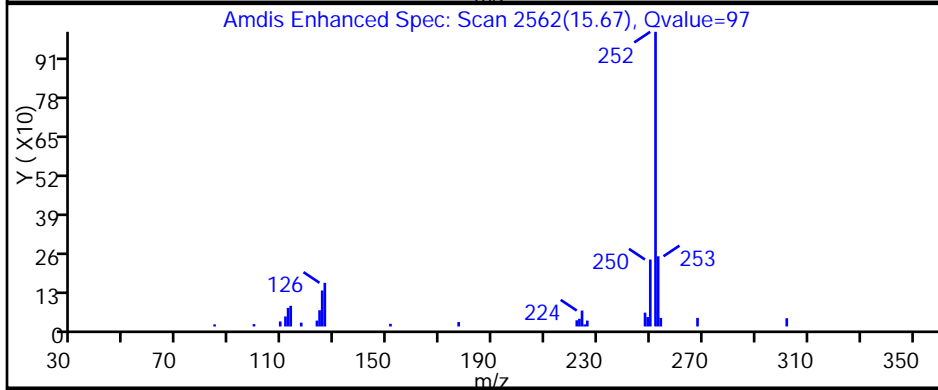
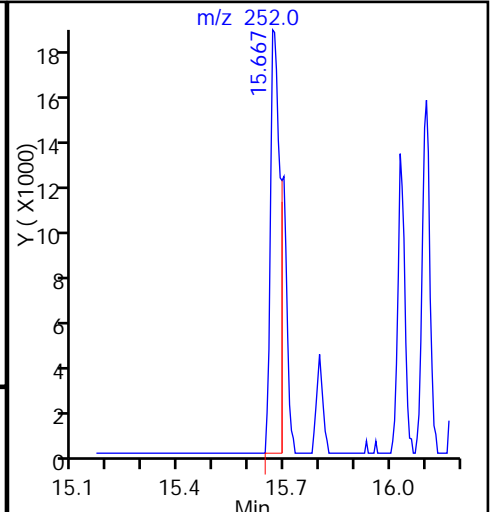
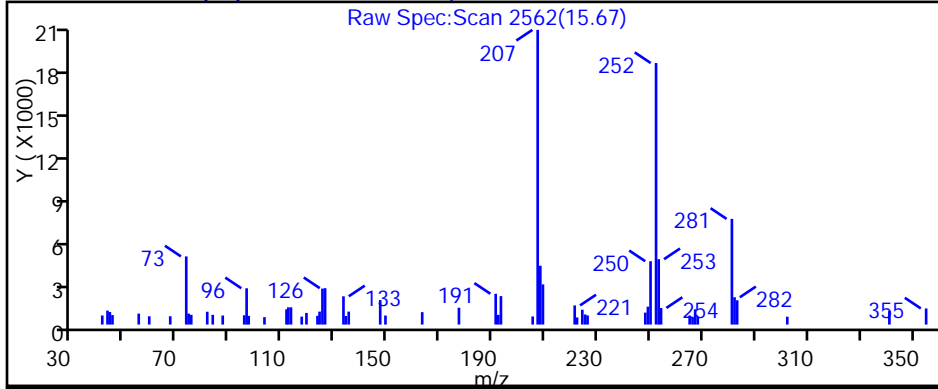
Dil. Factor: 20.0000

Method: U-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

213 Benzo[b]fluoranthene, CAS: 205-99-2

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160330-51640.b\U25868.D

Injection Date: 30-Mar-2016 10:37:30

Instrument ID: HP5973U

Lims ID: 460-110715-B-2-B

Lab Sample ID: 480-110715-2

Client ID: C4

Operator ID: CAS

ALS Bottle#: 14

Worklist Smp#: 14

Injection Vol: 1.0 ul

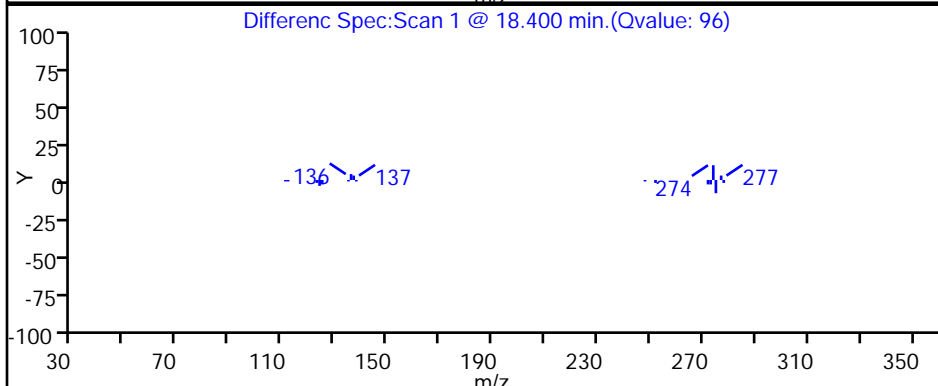
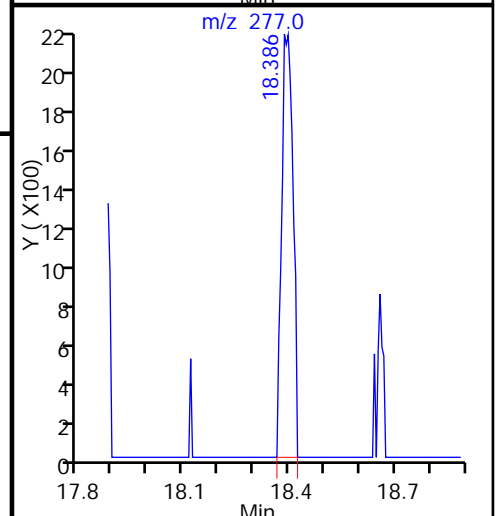
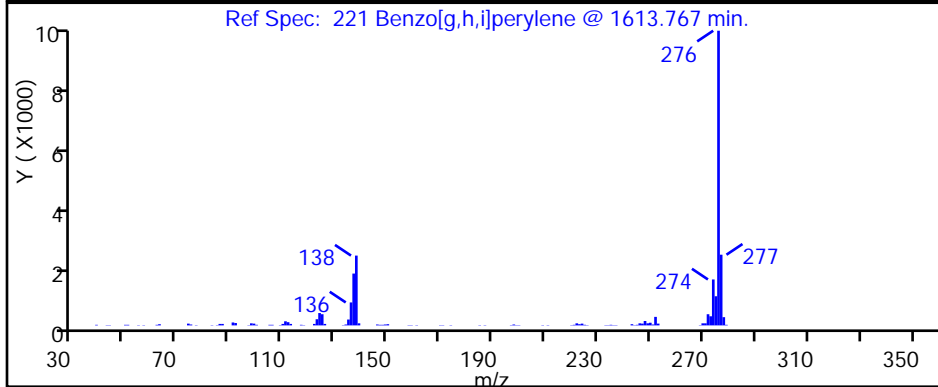
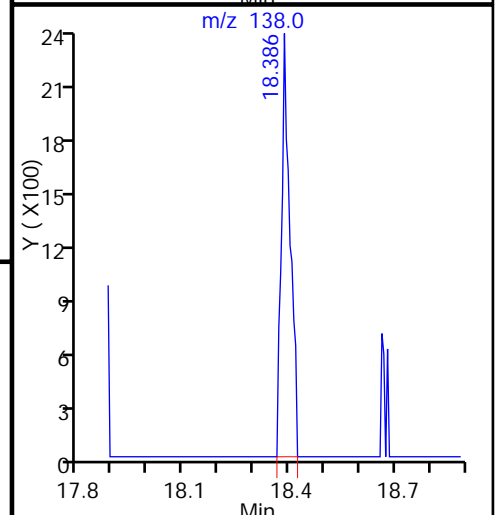
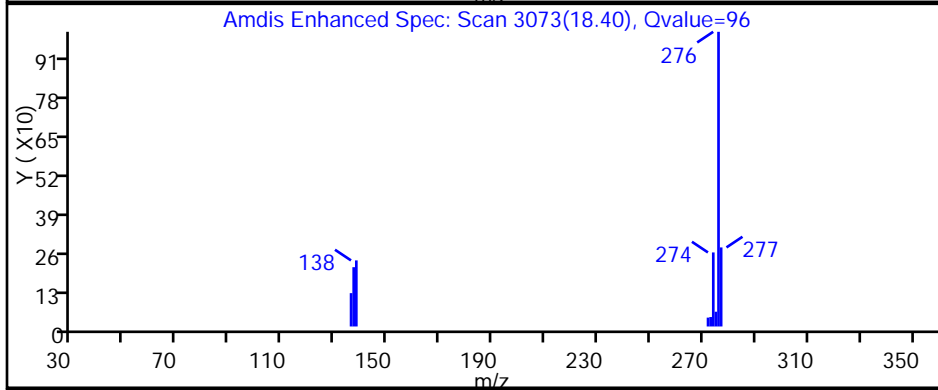
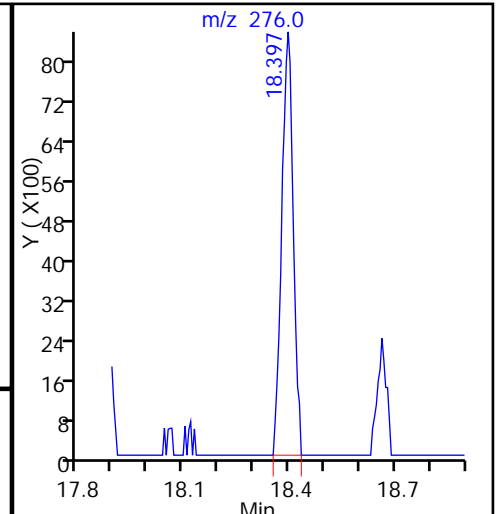
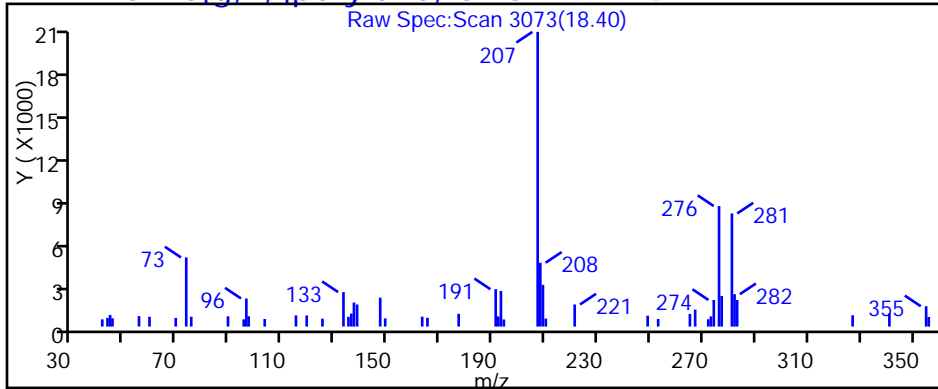
Dil. Factor: 20.0000

Method: U-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

221 Benzo[g,h,i]perylene, CAS: 191-24-2

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160330-51640.b\U25868.D

Injection Date: 30-Mar-2016 10:37:30

Instrument ID: HP5973U

Lims ID: 460-110715-B-2-B

Lab Sample ID: 480-110715-2

Client ID: C4

Operator ID: CAS

ALS Bottle#: 14

Worklist Smp#: 14

Injection Vol: 1.0 ul

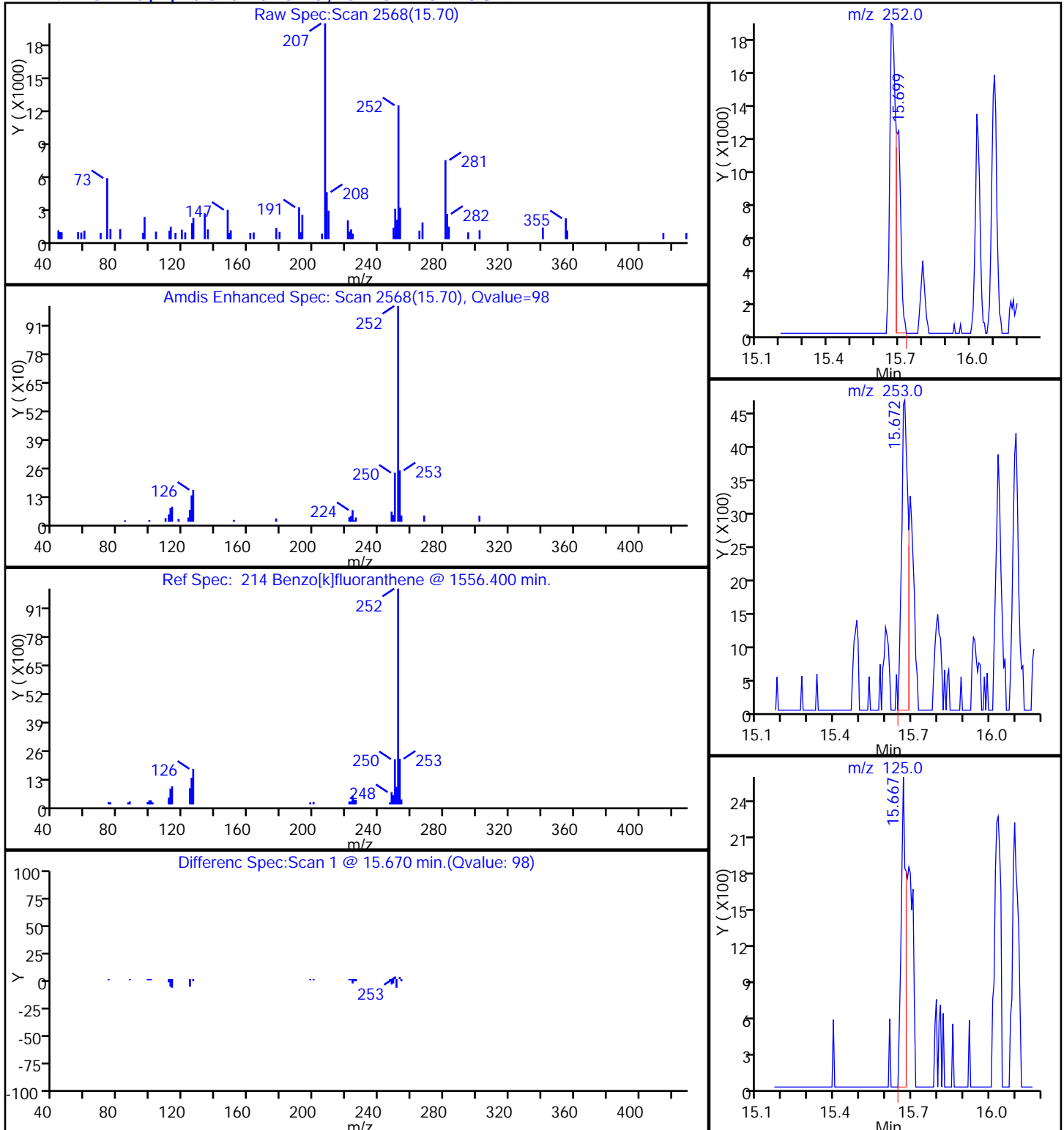
Dil. Factor: 20.0000

Method: U-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

214 Benzo[k]fluoranthene, CAS: 207-08-9

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160330-51640.b\U25868.D

Injection Date: 30-Mar-2016 10:37:30

Instrument ID: HP5973U

Lims ID: 460-110715-B-2-B

Lab Sample ID: 480-110715-2

Client ID: C4

Operator ID: CAS

ALS Bottle#: 14

Worklist Smp#: 14

Injection Vol: 1.0 ul

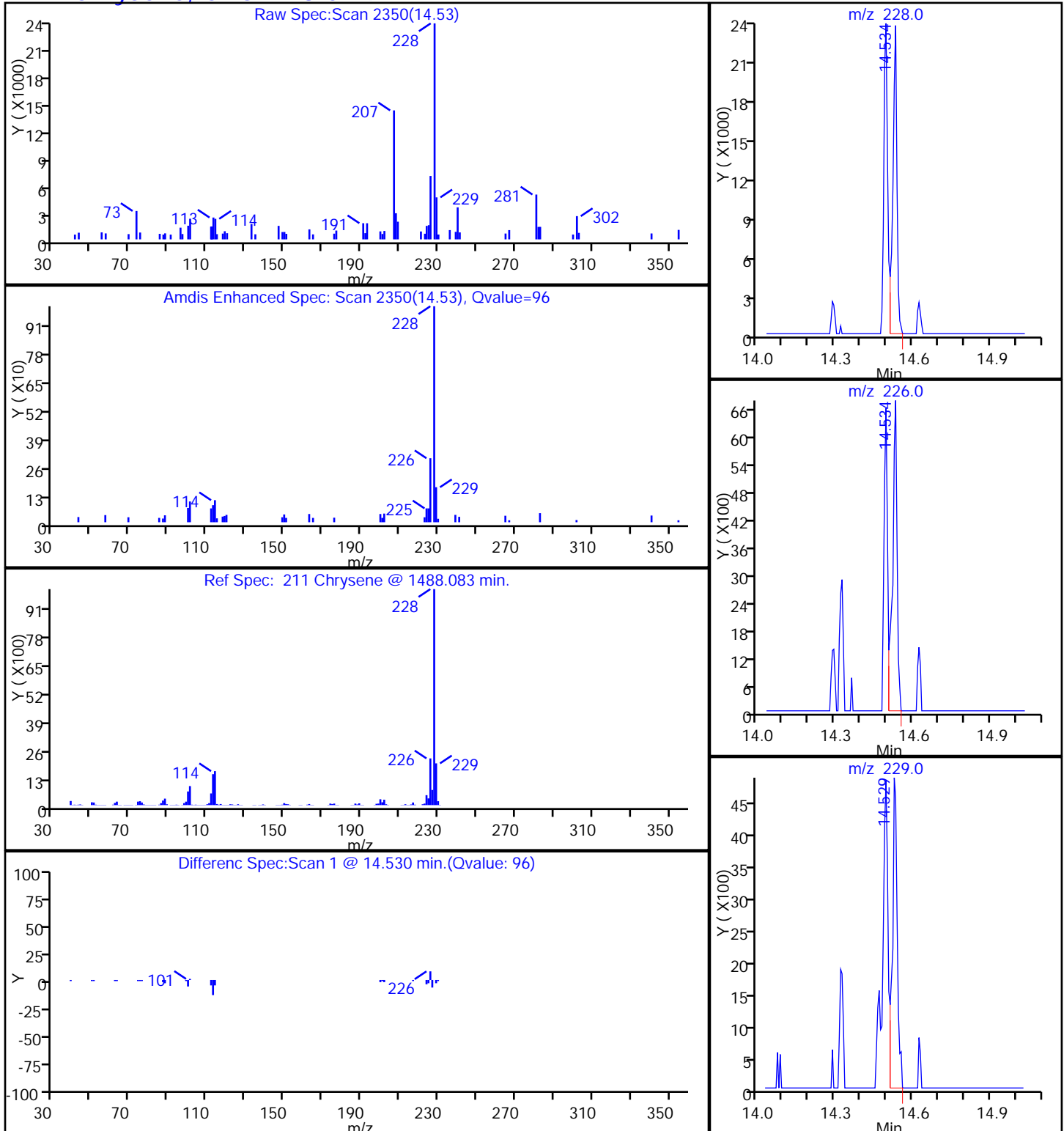
Dil. Factor: 20.0000

Method: U-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

211 Chrysene, CAS: 218-01-9

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160330-51640.b\U25868.D

Injection Date: 30-Mar-2016 10:37:30

Instrument ID: HP5973U

Lims ID: 460-110715-B-2-B

Lab Sample ID: 480-110715-2

Client ID: C4

Operator ID: CAS

ALS Bottle#: 14

Worklist Smp#: 14

Injection Vol: 1.0 ul

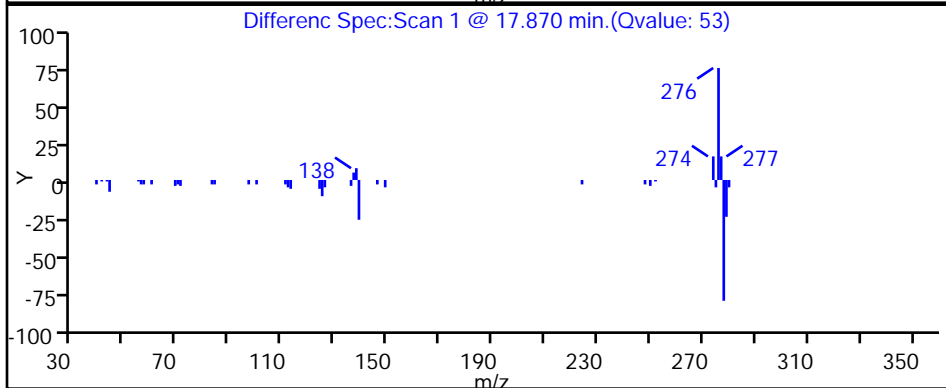
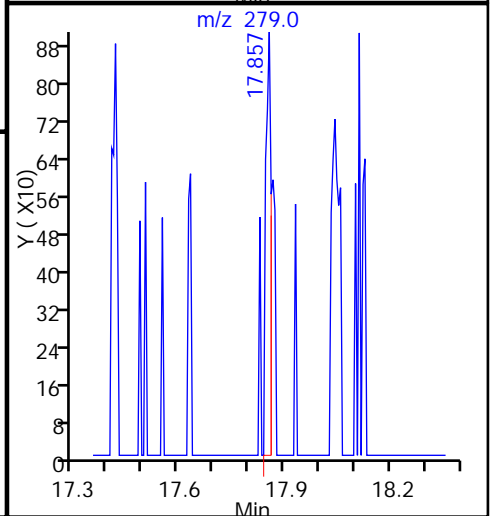
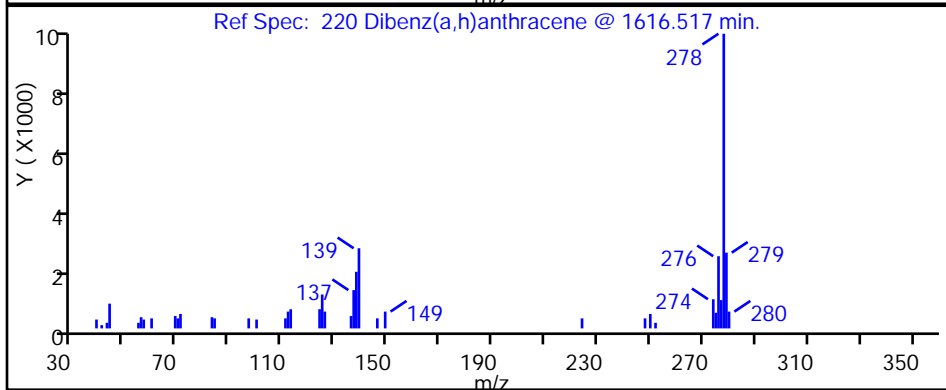
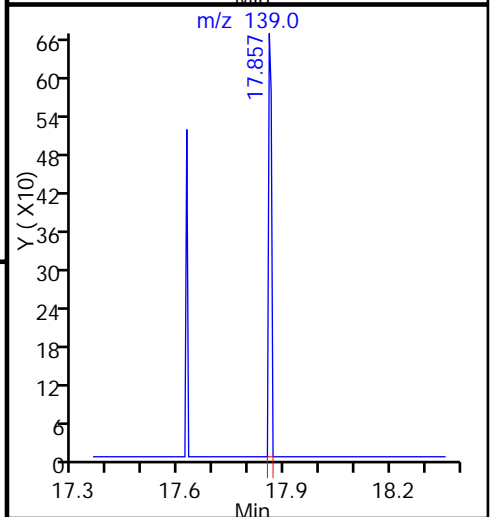
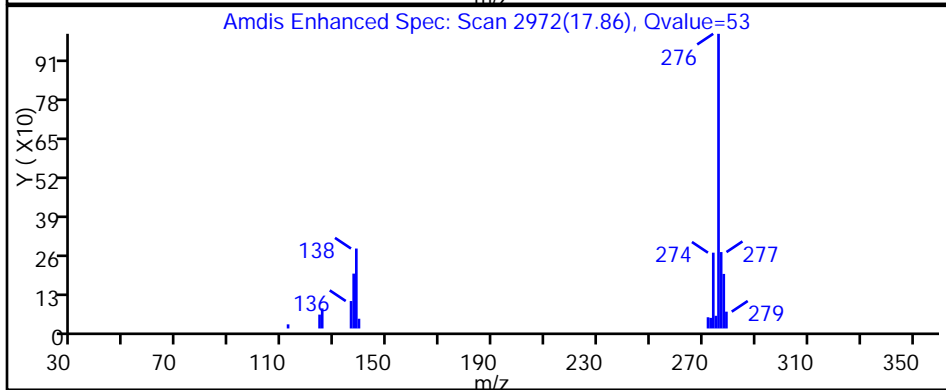
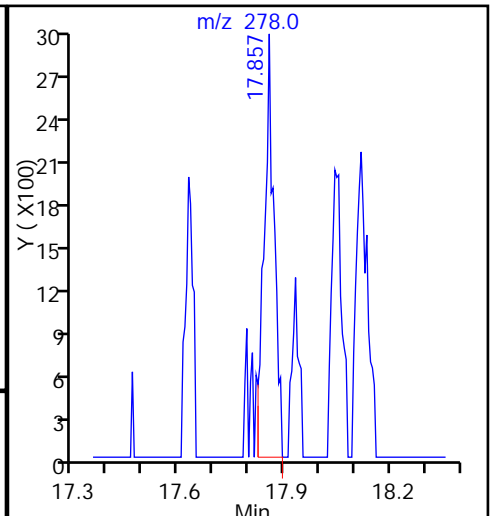
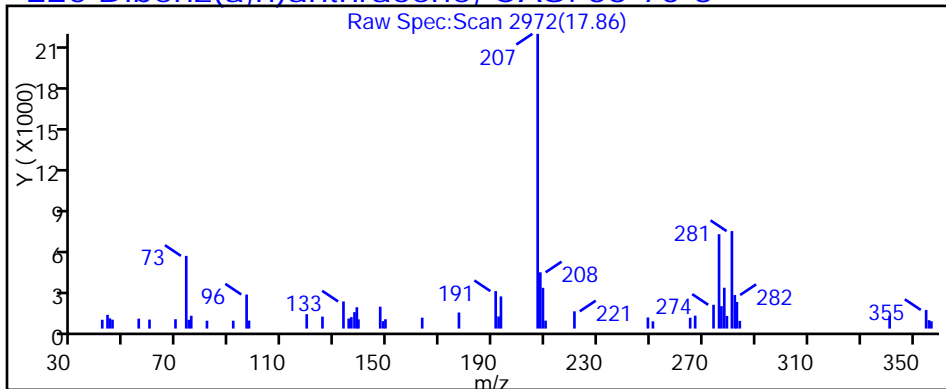
Dil. Factor: 20.0000

Method: U-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

220 Dibenz(a,h)anthracene, CAS: 53-70-3

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160330-51640.b\U25868.D

Injection Date: 30-Mar-2016 10:37:30

Instrument ID: HP5973U

Lims ID: 460-110715-B-2-B

Lab Sample ID: 480-110715-2

Client ID: C4

Operator ID: CAS

ALS Bottle#: 14

Worklist Smp#: 14

Injection Vol: 1.0 ul

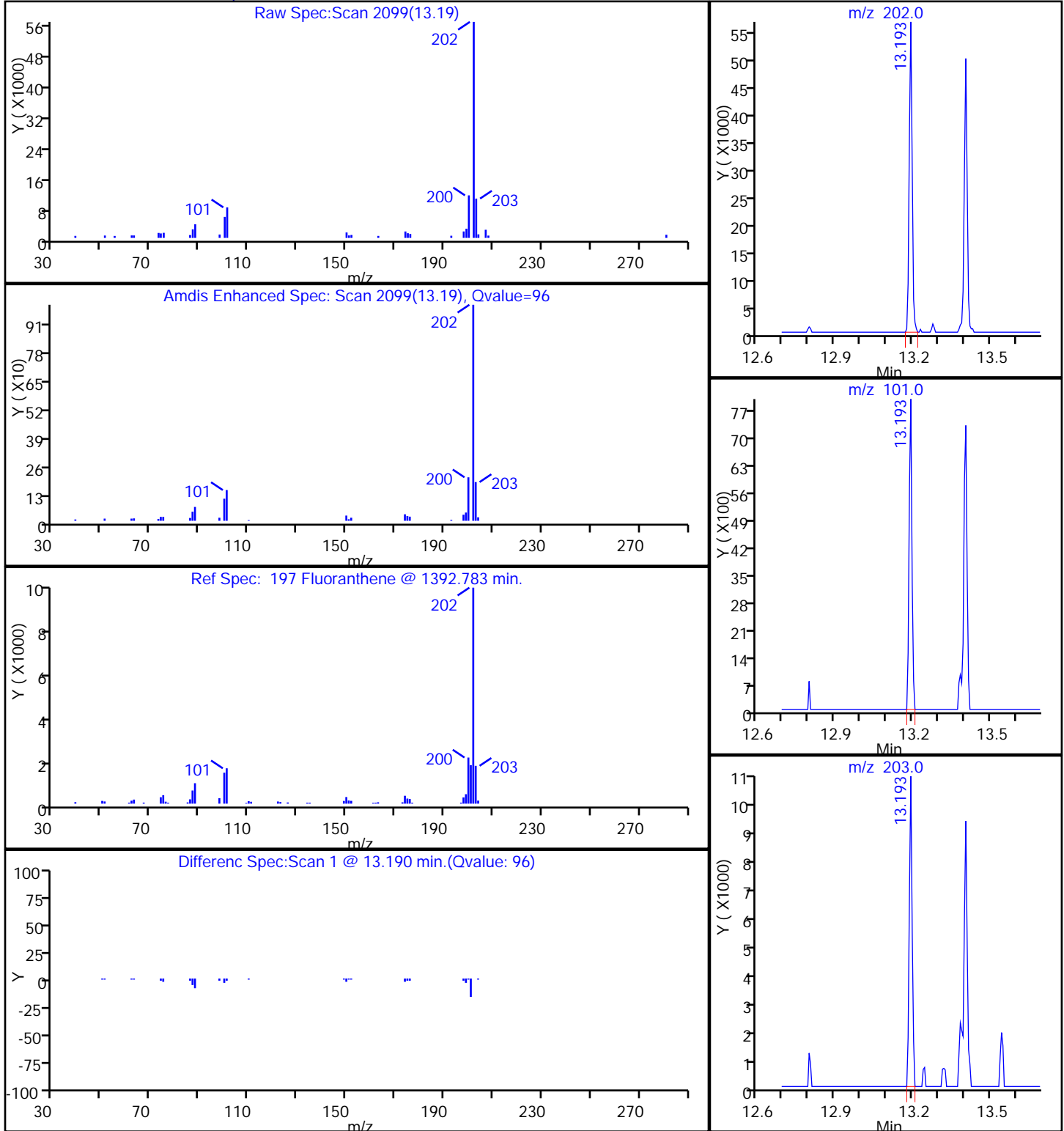
Dil. Factor: 20.0000

Method: U-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

197 Fluoranthene, CAS: 206-44-0

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160330-51640.b\U25868.D

Injection Date: 30-Mar-2016 10:37:30

Instrument ID: HP5973U

Lims ID: 460-110715-B-2-B

Lab Sample ID: 480-110715-2

Client ID: C4

Operator ID: CAS

ALS Bottle#: 14

Worklist Smp#: 14

Injection Vol: 1.0 ul

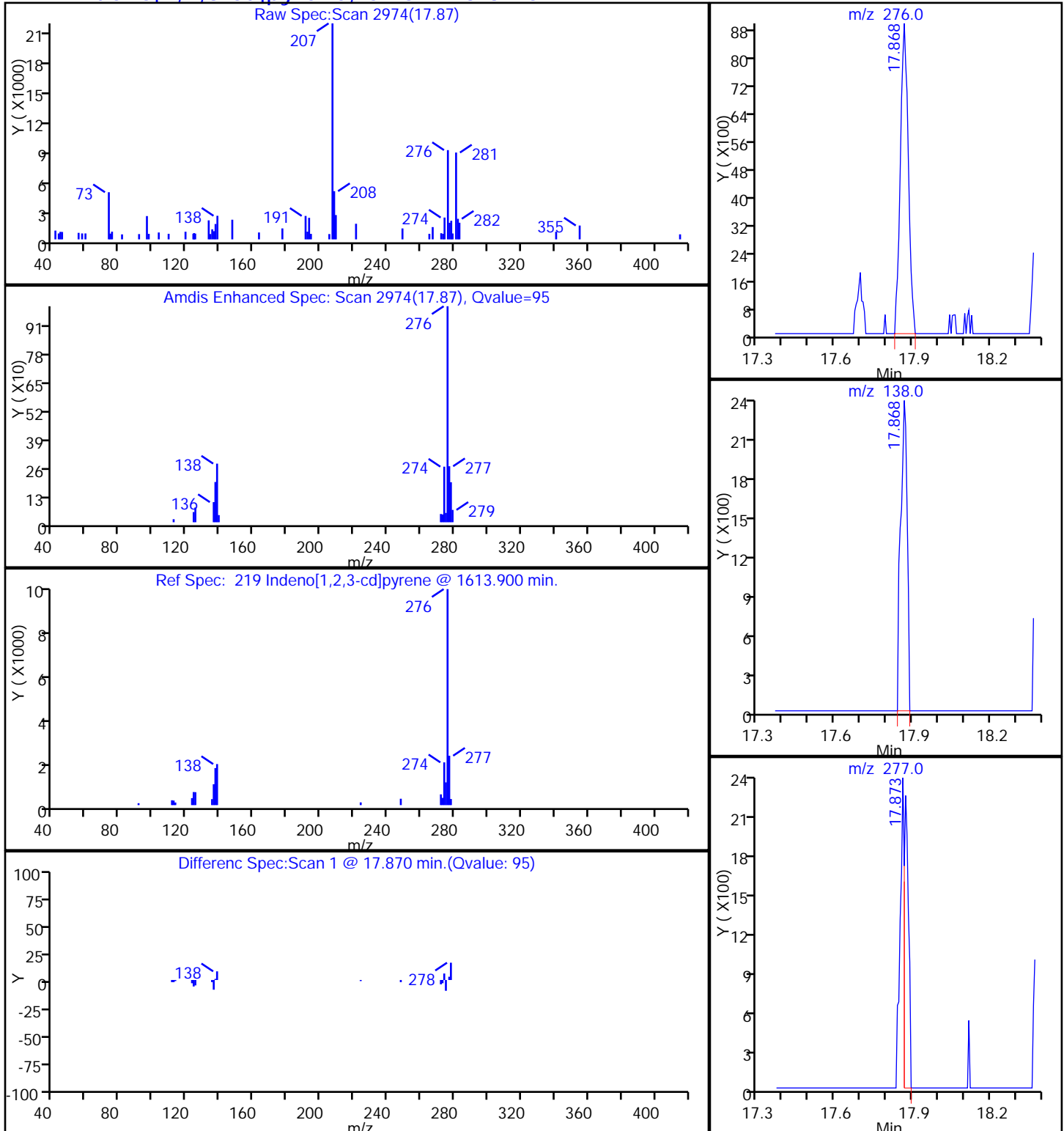
Dil. Factor: 20.0000

Method: U-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

219 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160330-51640.b\U25868.D

Injection Date: 30-Mar-2016 10:37:30

Instrument ID: HP5973U

Lims ID: 460-110715-B-2-B

Lab Sample ID: 480-110715-2

Client ID: C4

Operator ID: CAS

ALS Bottle#: 14

Worklist Smp#: 14

Injection Vol: 1.0 ul

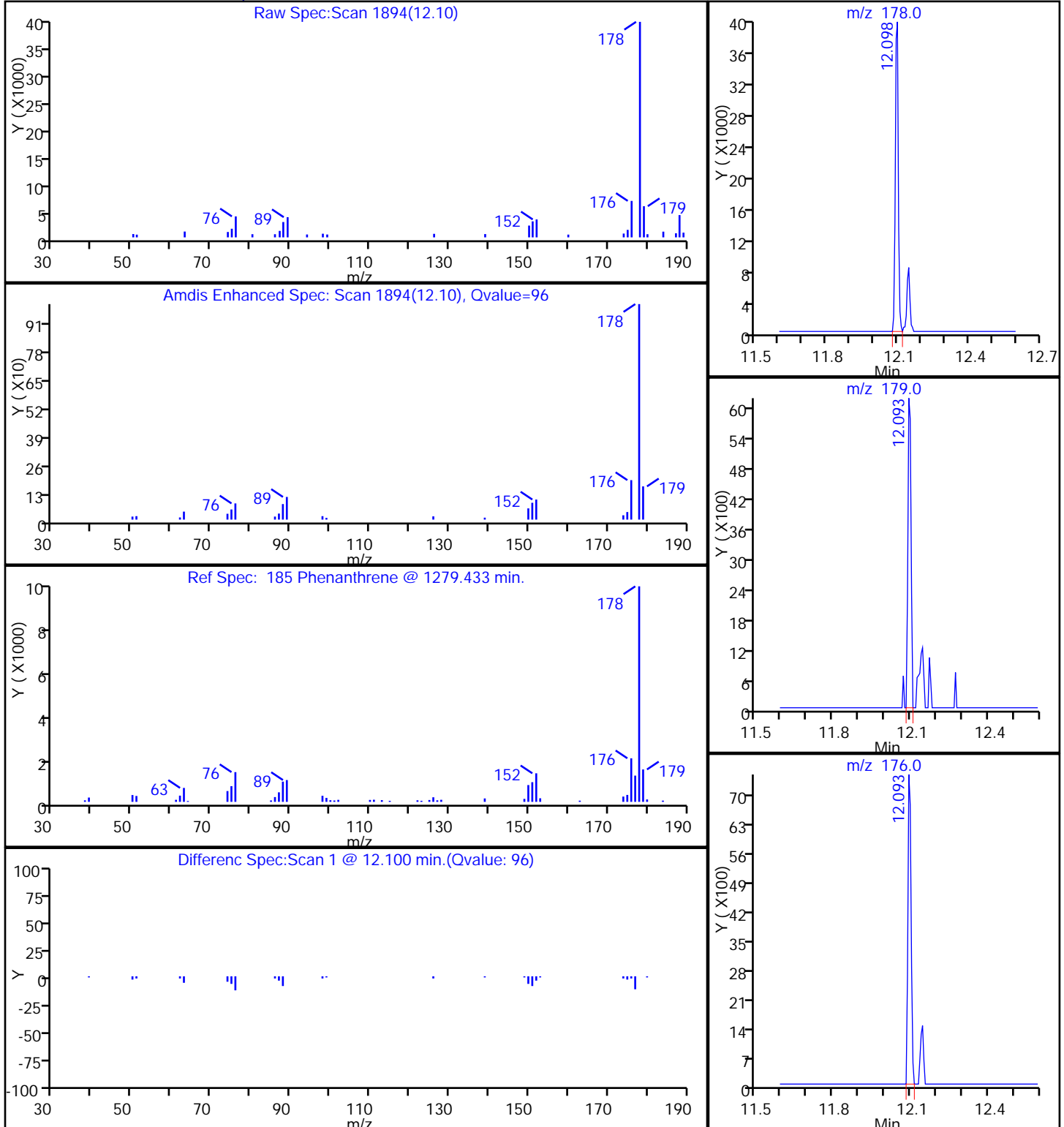
Dil. Factor: 20.0000

Method: U-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

185 Phenanthrene, CAS: 85-01-8

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160330-51640.b\U25868.D

Injection Date: 30-Mar-2016 10:37:30

Instrument ID: HP5973U

Lims ID: 460-110715-B-2-B

Lab Sample ID: 480-110715-2

Client ID: C4

Operator ID: CAS

ALS Bottle#: 14

Worklist Smp#: 14

Injection Vol: 1.0 ul

Dil. Factor: 20.0000

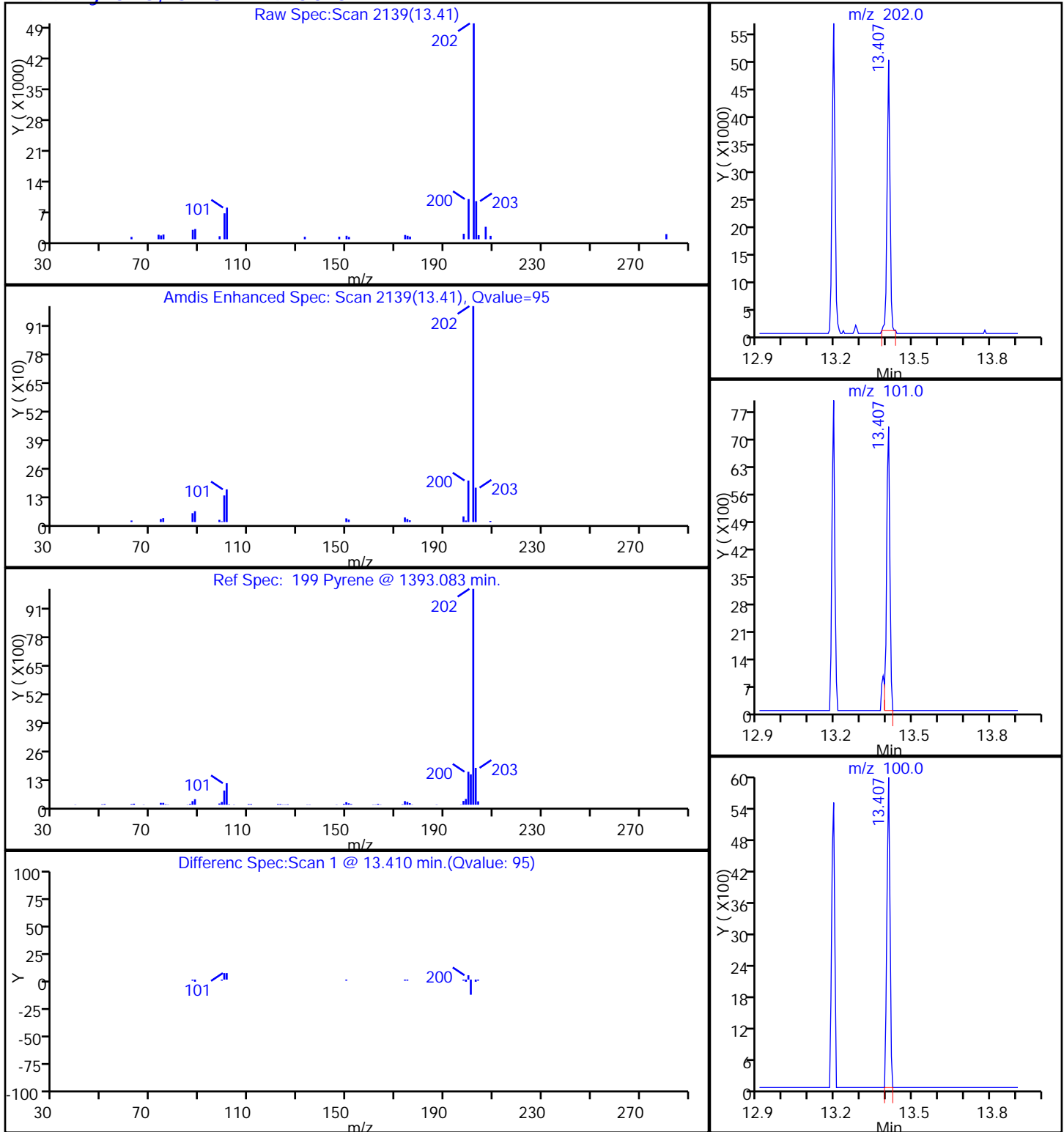
Method: U-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

199 Pyrene, CAS: 129-00-0



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160330-51640.b\U25868.D

Injection Date: 30-Mar-2016 10:37:30

Instrument ID: HP5973U

Lims ID: 460-110715-B-2-B

Lab Sample ID: 480-110715-2

Client ID: C4

Operator ID: CAS

ALS Bottle#: 14

Worklist Smp#: 14

Injection Vol: 1.0 ul

Dil. Factor: 20.0000

Method: U-8270

Limit Group: MB - 8270D ICAL

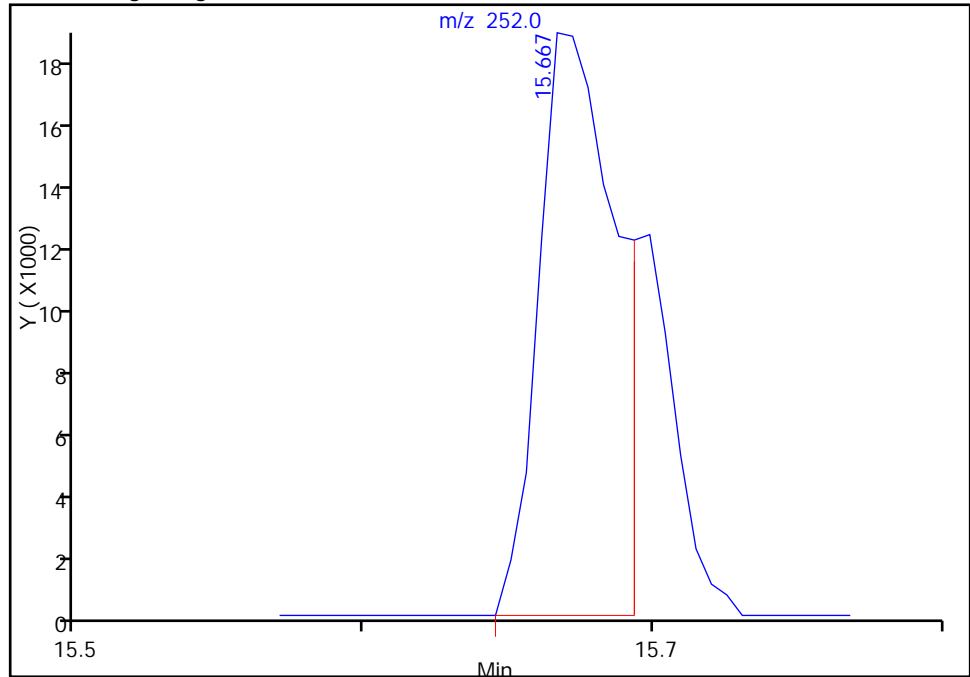
Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

214 Benzo[k]fluoranthene, CAS: 207-08-9

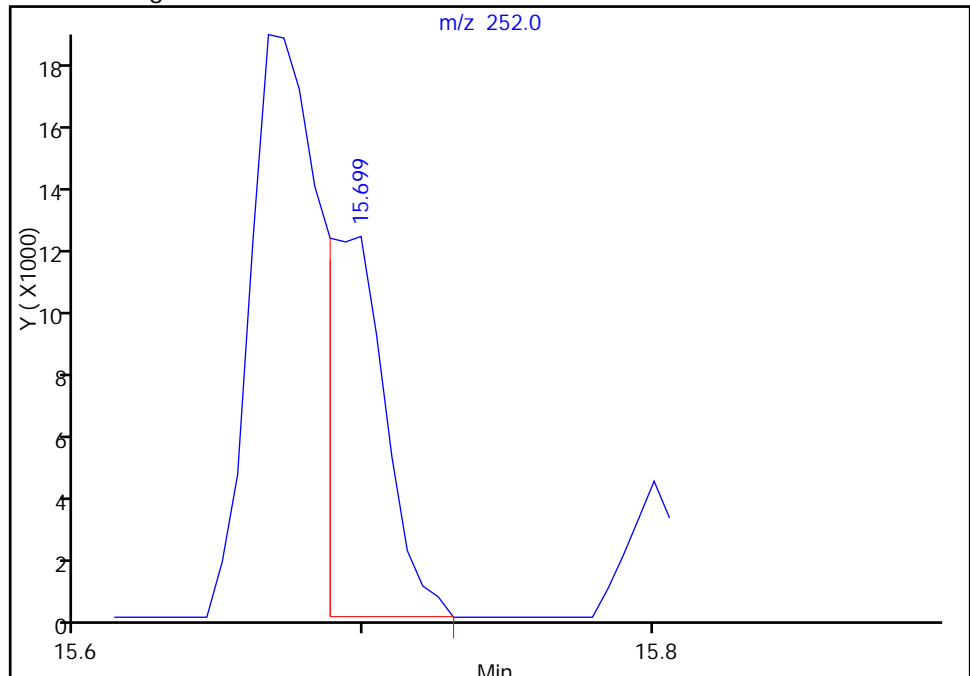
RT: 15.67
Area: 35109
Amount: 1.796507
Amount Units: ng/uL

Processing Integration Results



RT: 15.70
Area: 17206
Amount: 0.880421
Amount Units: ng/uL

Manual Integration Results



Reviewer: richardsd, 30-Mar-2016 13:31:22

Audit Action: Manually Integrated

Audit Reason: Split Peak

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

Lab Name: TestAmerica Buffalo Job No.: 460-110715-1 Analy Batch No.: 290883

SDG No.: _____

Instrument ID: HP5973U GC Column: RXI-5Sil MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/15/2016 11:37 Calibration End Date: 03/15/2016 13:51 Calibration ID: 26677

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-290883/3	U25626.D
Level 2	IC 480-290883/4	U25627.D
Level 3	ICIS 480-290883/5	U25628.D
Level 4	IC 480-290883/6	U25629.D
Level 5	IC 480-290883/7	U25630.D
Level 6	IC 480-290883/8	U25631.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,4-Dioxane	0.6616 0.6676	0.6582	0.6472	0.6397	0.6482	Ave		0.6538				1.6		20.0			
N-Nitrosodimethylamine	0.8593 0.8417	0.9191	0.8617	0.8844	0.8631	Ave		0.8716				3.1		20.0			
Pyridine	1.1493 1.2323	1.2457	1.2219	1.2594	1.2430	Ave		1.2252				3.2		20.0			
Benzaldehyde	0.3343 0.3424	0.3373	0.3393	0.3493	0.3454	Ave		0.3413			0.0100	1.6		20.0			
Phenol	1.6336 1.7086	1.8399	1.7883	1.8521	1.7997	Ave		1.7704			0.8000	4.7		20.0			
Aniline	1.9543 2.1079	2.2264	2.1869	2.2691	2.2128	Ave		2.1596				5.3		20.0			
Bis(2-chloroethyl)ether	1.3937 1.4022	1.5068	1.4636	1.5033	1.4502	Ave		1.4533			0.7000	3.3		20.0			
2-Chlorophenol	1.2849 1.4153	1.4019	1.4252	1.5040	1.4605	Ave		1.4153			0.8000	5.2		20.0			
n-Decane	1.6571 1.8521	1.8285	1.8064	1.8259	1.8227	Ave		1.7988			0.0100	3.9		20.0			
1,3-Dichlorobenzene	1.5603 1.5501	1.6055	1.5423	1.5716	1.5481	Ave		1.5630				1.5		20.0			
1,4-Dichlorobenzene	1.5768 1.5464	1.5888	1.5619	1.5812	1.5540	Ave		1.5682				1.1		20.0			
Benzyl alcohol	0.7948 0.8730	0.9111	0.9211	0.9735	0.9400	Ave		0.9023				6.9		20.0			
1,2-Dichlorobenzene	1.4275 1.4403	1.5222	1.4725	1.4914	1.4740	Ave		1.4713				2.3		20.0			
2-Methylphenol	1.1324 1.2172	1.2852	1.2901	1.3305	1.3004	Ave		1.2593			0.7000	5.8		20.0			
2,2'-oxybis[1-chloropropane]	1.9449 1.9507	2.0714	2.0321	2.0892	2.0375	Ave		2.0210			0.0100	3.0		20.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Buffalo Job No.: 460-110715-1 Analy Batch No.: 290883
SDG No.: _____
Instrument ID: HP5973U GC Column: RXI-5Sil MS ID: 0.25 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 03/15/2016 11:37 Calibration End Date: 03/15/2016 13:51 Calibration ID: 26677

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Indene	2.4072 2.4638	2.6117	2.5373	2.5902	2.5261	Ave		2.5227				3.0		20.0			
4-Methylphenol	1.2312 1.2587	1.3404	1.3443	1.3954	1.3674	Ave		1.3229			0.6000	4.8		20.0			
N-Nitrosodi-n-propylamine	0.9075 0.9577	1.0215	1.0597	1.0882	1.0653	Ave		1.0167			0.5000	6.9		20.0			
Acetophenone	1.7951 1.7540	2.0063	1.9548	2.0026	1.9301	Ave		1.9071			0.0100	5.6		20.0			
Hexachloroethane	0.5634 0.6231	0.6342	0.6287	0.6287	0.6369	Ave		0.6192			0.3000	4.5		20.0			
Nitrobenzene	0.3346 0.3768	0.3688	0.3637	0.3763	0.3839	Ave		0.3673			0.2000	4.8		20.0			
Isophorone	0.5959 0.6465	0.6585	0.6695	0.6873	0.6827	Ave		0.6567			0.4000	5.1		20.0			
2-Nitrophenol	0.1218 0.1770	0.1423	0.1600	0.1726	0.1801	Lin1	-0.383	0.1782			0.1000				0.9980		0.9900
2,4-Dimethylphenol	0.3160 0.3510	0.3557	0.3508	0.3623	0.3604	Ave		0.3494			0.2000	4.9		20.0			
Benzoic acid	0.0676 0.2028	0.1307	0.1711	0.2049	0.2156	Lin1	-0.918	0.2115							0.9930		0.9900
Bis(2-chloroethoxy)methane	0.4077 0.4123	0.4236	0.4190	0.4304	0.4286	Ave		0.4203			0.3000	2.1		20.0			
2,4-Dichlorophenol	0.2349 0.2818	0.2717	0.2789	0.2913	0.2915	Ave		0.2750			0.2000	7.7		20.0			
1,2,4-Trichlorobenzene	0.3000 0.3192	0.3250	0.3146	0.3223	0.3228	Ave		0.3173				2.9		20.0			
Naphthalene	1.0072 0.9944	1.0421	0.9985	1.0046	1.0088	Ave		1.0093			0.7000	1.7		20.0			
4-Chloroaniline	0.3965 0.4215	0.4335	0.4356	0.4471	0.4454	Ave		0.4299			0.0100	4.4		20.0			
2,6-Dichlorophenol	0.2521 0.2773	0.2761	0.2768	0.2862	0.2872	Ave		0.2760				4.6		20.0			
Hexachlorobutadiene	0.1863 0.1968	0.1957	0.1923	0.1952	0.1978	Ave		0.1940			0.0100	2.2		20.0			
Caprolactam	0.0699 0.1050	0.0920	0.1004	0.1088	0.1081	Lin1	-0.219	0.1084			0.0100				0.9990		0.9900
4-Chloro-3-methylphenol	0.2407 0.2790	0.2770	0.2898	0.2956	0.2957	Ave		0.2796			0.2000	7.4		20.0			
2-Methylnaphthalene	0.6134 0.6291	0.6646	0.6487	0.6614	0.6588	Ave		0.6460			0.4000	3.2		20.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Buffalo Job No.: 460-110715-1 Analy Batch No.: 290883
SDG No.: _____
Instrument ID: HP5973U GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N
Calibration Start Date: 03/15/2016 11:37 Calibration End Date: 03/15/2016 13:51 Calibration ID: 26677

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
1-Methylnaphthalene	0.5841 0.5909	0.6349	0.6050	0.6195	0.6177	Ave		0.6087			0.0100	3.1		20.0			
Hexachlorocyclopentadiene	0.3509 0.4510	0.4296	0.4183	0.4456	0.4585	Lin1	-0.567	0.4541			0.0500				0.9990		0.9900
1,2,4,5-Tetrachlorobenzene	0.5328 0.5809	0.5944	0.5668	0.5771	0.5981	Ave		0.5750			0.0100	4.1		20.0			
2,4,6-Trichlorophenol	0.2712 0.3703	0.3442	0.3582	0.3752	0.3811	Lin1	-0.582	0.3792			0.2000				1.0000		0.9900
2,4,5-Trichlorophenol	0.2820 0.3844	0.3598	0.3686	0.3909	0.3970	Lin1	-0.603	0.3940			0.2000				0.9990		0.9900
1,1'-Biphenyl	1.3845 1.4015	1.5078	1.4165	1.4281	1.4603	Ave		1.4331			0.0100	3.1		20.0			
2-Chloronaphthalene	1.1070 1.1384	1.2091	1.1482	1.1460	1.1691	Ave		1.1530			0.8000	3.0		20.0			
2-Nitroaniline	0.2283 0.3569	0.2990	0.3307	0.3578	0.3661	Lin1	-0.824	0.3644			0.0100				0.9990		0.9900
Dimethyl phthalate	1.1605 1.2715	1.3154	1.2645	1.2885	1.2930	Ave		1.2656			0.0100	4.3		20.0			
1,3-Dinitrobenzene	0.0568 0.1092	0.0780	0.0916	0.1077	0.1101	Lin1	-0.357	0.1101							0.9950		0.9900
2,6-Dinitrotoluene	0.1809 0.3016	0.2525	0.2775	0.2946	0.2997	Lin1	-0.714	0.3036							0.9990		0.9900
Acenaphthylene	1.5572 1.6803	1.7655	1.6853	1.7000	1.7171	Ave		1.6842			0.9000	4.1		20.0			
3-Nitroaniline	0.1968 0.3332	0.2794	0.2980	0.3193	0.3314	Lin1	-0.802	0.3332			0.0100				0.9990		0.9900
2,4-Dinitrophenol	0.0590 0.1665	0.0920	0.1225	0.1488	0.1617	Lin1	-1.470	0.1619			0.0100				0.9880	*	0.9900
Acenaphthene	1.0765 1.1164	1.1504	1.1161	1.1355	1.1455	Ave		1.1234			0.9000	2.4		20.0			
4-Nitrophenol	0.1152 0.1818	0.1577	0.1680	0.1755	0.1808	Lin1	-0.762	0.1823			0.0100				0.9990		0.9900
2,4-Dinitrotoluene	0.2163 0.4018	0.3240	0.3569	0.3907	0.3934	Lin1	-1.095	0.4021			0.2000				0.9990		0.9900
Dibenzofuran	1.5636 1.5899	1.6960	1.5995	1.6148	1.6293	Ave		1.6155			0.8000	2.8		20.0			
2,3,4,6-Tetrachlorophenol	0.2095 0.3328	0.2995	0.3045	0.3296	0.3367	Lin1	-0.699	0.3372			0.0100				0.9990		0.9900
Diethyl phthalate	1.0930 1.2589	1.2651	1.2459	1.2482	1.2576	Ave		1.2281			0.0100	5.4		20.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Buffalo Job No.: 460-110715-1 Analy Batch No.: 290883

SDG No.: _____

Instrument ID: HP5973U GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/15/2016 11:37 Calibration End Date: 03/15/2016 13:51 Calibration ID: 26677

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Hexadecane	0.8356 0.9301	0.9674	0.9372	0.9455	0.9618	Ave		0.9296			0.0100	5.2		20.0			
4-Chlorophenyl phenyl ether	0.6234 0.6588	0.6637	0.6564	0.6637	0.6618	Ave		0.6546			0.4000	2.4		20.0			
4-Nitroaniline	0.2208 0.3590	0.2888	0.3171	0.3363	0.3441	Lin1	-0.820	0.3521			0.0100				0.9980		0.9900
Fluorene	1.2458 1.3455	1.3753	1.3112	1.3392	1.3472	Ave		1.3274			0.9000	3.4		20.0			
4,6-Dinitro-2-methylphenol	0.0545 0.1439	0.0958	0.1184	0.1378	0.1417	Lin1	-1.143	0.1440			0.0100				0.9950		0.9900
Diphenylamine	0.6254 0.6715	0.7111	0.6826	0.7137	0.7022	Ave		0.6844				4.9		20.0			
N-Nitrosodiphenylamine	0.5320 0.5712	0.6049	0.5807	0.6072	0.5974	Ave		0.5822			0.0100	4.9		20.0			
1,2-Diphenylhydrazine	0.7924 0.8276	0.9059	0.8523	0.8741	0.8598	Ave		0.8520				4.6		20.0			
trans-Azobenzene	0.7924 0.8276	0.9059	0.8523	0.8741	0.8598	Ave		0.8520				4.6		20.0			
4-Bromophenyl phenyl ether	0.2141 0.2441	0.2460	0.2411	0.2521	0.2513	Ave		0.2415			0.1000	5.8		20.0			
Hexachlorobenzene	0.2704 0.2879	0.2955	0.2904	0.2958	0.2953	Ave		0.2892			0.1000	3.4		20.0			
Atrazine	0.2793 0.3601	0.3427	0.3454	0.3486	0.3474	Ave		0.3372			0.0100	8.6		20.0			
Pentachlorophenol	0.0976 0.1806	0.1422	0.1640	0.1766	0.1819	Lin1	-1.029	0.1830			0.0500				0.9990		0.9900
n-Octadecane	0.4843 0.5422	0.5842	0.5807	0.5865	0.5809	Ave		0.5598			0.0100	7.2		20.0			
Phenanthrene	1.0839 1.1017	1.1597	1.1175	1.1304	1.1022	Ave		1.1159			0.7000	2.4		20.0			
Anthracene	1.0656 1.1477	1.1636	1.1680	1.1821	1.1607	Ave		1.1480			0.7000	3.6		20.0			
Carbazole	0.9680 1.0632	1.0625	1.0727	1.0733	1.0507	Ave		1.0484			0.0100	3.8		20.0			
Di-n-butyl phthalate	1.0235 1.2525	1.2011	1.2621	1.2663	1.2459	Ave		1.2086			0.0100	7.7		20.0			
Fluoranthene	1.0831 1.2334	1.2306	1.2488	1.2375	1.2130	Ave		1.2077			0.6000	5.1		20.0			
Benzidine	0.1766 0.3204	0.2480	0.2802	0.3109	0.3121	Lin1	-0.889	0.3193							0.9980		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Buffalo Job No.: 460-110715-1 Analy Batch No.: 290883
SDG No.: _____
Instrument ID: HP5973U GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N
Calibration Start Date: 03/15/2016 11:37 Calibration End Date: 03/15/2016 13:51 Calibration ID: 26677

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Pyrene	1.0642 1.0747	1.1515	1.1347	1.1555	1.1163	Ave		1.1162			0.6000	3.5		20.0			
Butyl benzyl phthalate	0.3547 0.4950	0.4652	0.4942	0.5085	0.5027	Lin1	-0.770	0.5087			0.0100				1.0000		0.9900
Bis(2-ethylhexyl) phthalate	0.4828 0.6866	0.6329	0.6738	0.6956	0.6930	Ave		0.6441			0.0100	12.8		20.0			
3,3'-Dichlorobenzidine	0.2992 0.4245	0.3671	0.3872	0.4117	0.4224	Lin1	-0.766	0.4238			0.0100				0.9990		0.9900
Benzo[a]anthracene	1.0615 1.1419	1.1837	1.1542	1.1708	1.1487	Ave		1.1435			0.8000	3.8		20.0			
Chrysene	1.0977 1.0977	1.1359	1.1019	1.1075	1.1016	Ave		1.1070			0.7000	1.3		20.0			
Di-n-octyl phthalate	0.7672 1.1875	1.0397	1.1194	1.1767	1.1798	Lin1	-2.408	1.1991			0.0100				1.0000		0.9900
Benzo[b]fluoranthene	1.0459 1.1650	1.2019	1.1460	1.2592	1.2072	Ave		1.1709			0.7000	6.2		20.0			
Benzo[k]fluoranthene	1.1043 1.1900	1.2529	1.2323	1.2155	1.2156	Ave		1.2018			0.7000	4.3		20.0			
Benzo[a]pyrene	0.9355 1.1311	1.1092	1.1023	1.1464	1.1538	Ave		1.0964			0.7000	7.4		20.0			
Dibenz(a,h)anthracene	0.9266 1.3252	1.0888	1.1111	1.2193	1.2705	Lin1	-2.479	1.2812							0.9960		0.9900
Indeno[1,2,3-cd]pyrene	1.1187 1.5601	1.2777	1.3042	1.4187	1.4871	Lin1	-2.763	1.4996			0.5000				0.9960		0.9900
Benzo[g,h,i]perylene	0.9267 1.2484	1.0383	1.0388	1.1386	1.1926	Lin1	-2.034	1.1992			0.5000				0.9960		0.9900
2-Fluorophenol (Surr)	1.2664 1.4332	1.3593	1.3827	1.4348	1.4187	Ave		1.3825				4.6		20.0			
Phenol-d5 (Surr)	1.5276 1.6576	1.7141	1.7007	1.7748	1.7317	Ave		1.6844				5.1		20.0			
Nitrobenzene-d5 (Surr)	0.3584 0.3903	0.3987	0.3974	0.4158	0.4265	Ave		0.3979				5.9		20.0			
2-Fluorobiphenyl	1.2601 1.3130	1.4087	1.3159	1.3407	1.3573	Ave		1.3326				3.7		20.0			
2,4,6-Tribromophenol (Surr)	0.1007 0.1541	0.1341	0.1470	0.1578	0.1564	Lin1	-0.325	0.1580							0.9990		0.9900
p-Terphenyl-d14 (Surr)	0.8359 0.8513	0.8875	0.8966	0.9109	0.8972	Ave		0.8799				3.4		20.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Buffalo Job No.: 460-110715-1 Analy Batch No.: 290883

SDG No.: _____

Instrument ID: HP5973U GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/15/2016 11:37 Calibration End Date: 03/15/2016 13:51 Calibration ID: 26677

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-290883/3	U25626.D
Level 2	IC 480-290883/4	U25627.D
Level 3	ICIS 480-290883/5	U25628.D
Level 4	IC 480-290883/6	U25629.D
Level 5	IC 480-290883/7	U25630.D
Level 6	IC 480-290883/8	U25631.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
1,4-Dioxane	DCB	Ave	8356 186847	31132	76518	129052	162618	5.00 120	20.0	50.0	80.0	100
N-Nitrosodimethylamine	DCB	Ave	10853 235569	43469	101876	178410	216540	5.00 120	20.0	50.0	80.0	100
Pyridine	DCB	Ave	14515 344870	58918	144453	254050	311851	5.00 120	20.0	50.0	80.0	100
Benzaldehyde	DCB	Ave	4222 95813	15954	40117	70468	86648	5.00 120	20.0	50.0	80.0	100
Phenol	DCB	Ave	20632 478186	87019	211410	373618	451528	5.00 120	20.0	50.0	80.0	100
Aniline	DCB	Ave	24682 589926	105302	258539	457746	555168	5.00 120	20.0	50.0	80.0	100
Bis(2-chloroethyl)ether	DCB	Ave	17602 392420	71266	173023	303262	363837	5.00 120	20.0	50.0	80.0	100
2-Chlorophenol	DCB	Ave	16228 396085	66304	168486	303404	366432	5.00 120	20.0	50.0	80.0	100
n-Decane	DCB	Ave	20929 518338	86480	213551	368334	457302	5.00 120	20.0	50.0	80.0	100
1,3-Dichlorobenzene	DCB	Ave	19706 433832	75936	182332	317036	388405	5.00 120	20.0	50.0	80.0	100
1,4-Dichlorobenzene	DCB	Ave	19914 432773	75145	184648	318985	389881	5.00 120	20.0	50.0	80.0	100
Benzyl alcohol	DCB	Ave	10038 244325	43091	108898	196384	235842	5.00 120	20.0	50.0	80.0	100
1,2-Dichlorobenzene	DCB	Ave	18029 403079	71996	174083	300867	369801	5.00 120	20.0	50.0	80.0	100
2-Methylphenol	DCB	Ave	14302 340660	60784	152513	268405	326263	5.00 120	20.0	50.0	80.0	100
2,2'-oxybis[1-chloropropane]	DCB	Ave	24563 545940	97968	240240	421449	511189	5.00 120	20.0	50.0	80.0	100
Indene	DCB	Ave	30402 689547	123523	299960	522517	633755	5.00 120	20.0	50.0	80.0	100

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

Lab Name: TestAmerica Buffalo Job No.: 460-110715-1 Analy Batch No.: 290883

SDG No.: _____

Instrument ID: HP5973U GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/15/2016 11:37 Calibration End Date: 03/15/2016 13:51 Calibration ID: 26677

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
4-Methylphenol	DCB	Ave	15549 352269	63397	158926	281498	343063	5.00 120	20.0	50.0	80.0	100
N-Nitrosodi-n-propylamine	DCB	Ave	11461 268042	48313	125280	219525	267271	5.00 120	20.0	50.0	80.0	100
Acetophenone	DCB	Ave	22671 490883	94893	231099	403975	484233	5.00 120	20.0	50.0	80.0	100
Hexachloroethane	DCB	Ave	7116 174381	29995	74327	126833	159782	5.00 120	20.0	50.0	80.0	100
Nitrobenzene	NPT	Ave	16516 384774	68723	171981	306523	374205	5.00 120	20.0	50.0	80.0	100
Isophorone	NPT	Ave	29415 660310	122695	316562	559893	665389	5.00 120	20.0	50.0	80.0	100
2-Nitrophenol	NPT	Lin1	6014 180737	26515	75663	140614	175540	5.00 120	20.0	50.0	80.0	100
2,4-Dimethylphenol	NPT	Ave	15599 358447	66277	165882	295139	351266	5.00 120	20.0	50.0	80.0	100
Benzoic acid	NPT	Lin1	3339 207098	24353	80898	166952	210166	5.00 120	20.0	50.0	80.0	100
Bis(2-chloroethoxy)methane	NPT	Ave	20125 421030	78929	198148	350620	417693	5.00 120	20.0	50.0	80.0	100
2,4-Dichlorophenol	NPT	Ave	11597 287791	50622	131877	237348	284144	5.00 120	20.0	50.0	80.0	100
1,2,4-Trichlorobenzene	NPT	Ave	14809 326036	60552	148778	262545	314649	5.00 120	20.0	50.0	80.0	100
Naphthalene	NPT	Ave	49720 1015618	194173	472129	818375	983210	5.00 120	20.0	50.0	80.0	100
4-Chloroaniline	NPT	Ave	19572 430467	80769	205983	364216	434050	5.00 120	20.0	50.0	80.0	100
2,6-Dichlorophenol	NPT	Ave	12447 283169	51451	130876	233148	279899	5.00 120	20.0	50.0	80.0	100
Hexachlorobutadiene	NPT	Ave	9195 200970	36473	90938	159056	192750	5.00 120	20.0	50.0	80.0	100
Caprolactam	NPT	Lin1	3453 107269	17136	47483	88618	105318	5.00 120	20.0	50.0	80.0	100
4-Chloro-3-methylphenol	NPT	Ave	11880 284964	51604	137043	240842	288172	5.00 120	20.0	50.0	80.0	100
2-Methylnaphthalene	NPT	Ave	30281 642492	123833	306737	538808	642051	5.00 120	20.0	50.0	80.0	100
1-Methylnaphthalene	NPT	Ave	28836 603480	118298	286054	504666	602057	5.00 120	20.0	50.0	80.0	100
Hexachlorocyclopentadiene	ANT	Lin1	9531 240484	42174	107984	198442	237984	5.00 120	20.0	50.0	80.0	100

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

Lab Name: TestAmerica Buffalo Job No.: 460-110715-1 Analy Batch No.: 290883

SDG No.: _____

Instrument ID: HP5973U GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/15/2016 11:37 Calibration End Date: 03/15/2016 13:51 Calibration ID: 26677

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
1,2,4,5-Tetrachlorobenzene	ANT	Ave	14474 309772	58349	146329	256999	310412	5.00 120	20.0	50.0	80.0	100
2,4,6-Trichlorophenol	ANT	Lin1	7368 197458	33795	92470	167096	197776	5.00 120	20.0	50.0	80.0	100
2,4,5-Trichlorophenol	ANT	Lin1	7661 204970	35319	95173	174055	206026	5.00 120	20.0	50.0	80.0	100
1,1'-Biphenyl	ANT	Ave	37611 747295	148020	365695	635925	757932	5.00 120	20.0	50.0	80.0	100
2-Chloronaphthalene	ANT	Ave	30071 607021	118699	296436	510321	606774	5.00 120	20.0	50.0	80.0	100
2-Nitroaniline	ANT	Lin1	6201 190285	29351	85371	159326	190002	5.00 120	20.0	50.0	80.0	100
Dimethyl phthalate	ANT	Ave	31525 678006	129130	326466	573784	671081	5.00 120	20.0	50.0	80.0	100
1,3-Dinitrobenzene	NPT	Lin1	2803 111482	14536	43324	87758	107302	5.00 120	20.0	50.0	80.0	100
2,6-Dinitrotoluene	ANT	Lin1	4914 160836	24792	71638	131183	155572	5.00 120	20.0	50.0	80.0	100
Acenaphthylene	ANT	Ave	42301 895997	173320	435109	757016	891226	5.00 120	20.0	50.0	80.0	100
3-Nitroaniline	ANT	Lin1	5345 177682	27427	76932	142190	171985	5.00 120	20.0	50.0	80.0	100
2,4-Dinitrophenol	ANT	Lin1	3203 177594	18071	63235	132527	167806	10.0 240	40.0	100	160	200
Acenaphthene	ANT	Ave	29244 595320	112934	288148	505653	594542	5.00 120	20.0	50.0	80.0	100
4-Nitrophenol	ANT	Lin1	6259 193898	30963	86731	156269	187635	10.0 240	40.0	100	160	200
2,4-Dinitrotoluene	ANT	Lin1	5877 214239	31806	92145	173961	204200	5.00 120	20.0	50.0	80.0	100
Dibenzofuran	ANT	Ave	42475 847764	166500	412937	719065	845662	5.00 120	20.0	50.0	80.0	100
2,3,4,6-Tetrachlorophenol	ANT	Lin1	5692 177478	29404	78609	146790	174735	5.00 120	20.0	50.0	80.0	100
Diethyl phthalate	ANT	Ave	29692 671296	124192	321667	555840	652734	5.00 120	20.0	50.0	80.0	100
Hexadecane	ANT	Ave	22700 495965	94971	241953	421053	499215	5.00 120	20.0	50.0	80.0	100
4-Chlorophenyl phenyl ether	ANT	Ave	16935 351289	65151	169454	295542	343481	5.00 120	20.0	50.0	80.0	100
4-Nitroaniline	ANT	Lin1	5997 191430	28356	81865	149743	178613	5.00 120	20.0	50.0	80.0	100

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

Lab Name: TestAmerica Buffalo Job No.: 460-110715-1 Analy Batch No.: 290883

SDG No.: _____

Instrument ID: HP5973U GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/15/2016 11:37 Calibration End Date: 03/15/2016 13:51 Calibration ID: 26677

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Fluorene	ANT	Ave	33843 717442	135009	338513	596352	699243	5.00 120	20.0	50.0	80.0	100
4,6-Dinitro-2-methylphenol	PHN	Lin1	4792 259954	30331	99172	196819	240395	10.0 240	40.0	100	160	200
Diphenylamine	PHN	Ave	23395 515852	95749	243103	433704	506562	4.25 102	17.0	42.5	68.1	85.1
N-Nitrosodiphenylamine	PHN	Ave	23395 515852	95749	243103	433704	506562	5.00 120	20.0	50.0	80.0	100
1,2-Diphenylhydrazine	PHN	Ave	34845 747404	143392	356819	624356	729061	5.00 120	20.0	50.0	80.0	100
trans-Azobenzene	PHN	Ave	34845 747404	143392	356819	624356	729061	5.00 120	20.0	50.0	80.0	100
4-Bromophenyl phenyl ether	PHN	Ave	9416 220480	38935	100919	180112	213091	5.00 120	20.0	50.0	80.0	100
Hexachlorobenzene	PHN	Ave	11893 260003	46770	121563	211304	250382	5.00 120	20.0	50.0	80.0	100
Atrazine	ANT	Ave	7587 192016	33640	89181	155214	180292	5.00 120	20.0	50.0	80.0	100
Pentachlorophenol	PHN	Lin1	8587 326214	45024	137355	252286	308466	10.0 240	40.0	100	160	200
n-Octadecane	PHN	Ave	21298 489665	92476	243107	418954	492605	5.00 120	20.0	50.0	80.0	100
Phenanthrene	PHN	Ave	47666 994874	183570	467851	807443	934652	5.00 120	20.0	50.0	80.0	100
Anthracene	PHN	Ave	46863 1036408	184189	489008	844382	984224	5.00 120	20.0	50.0	80.0	100
Carbazole	PHN	Ave	42571 960123	168181	449100	766649	890964	5.00 120	20.0	50.0	80.0	100
Di-n-butyl phthalate	PHN	Ave	45010 1131058	190120	528369	904510	1056449	5.00 120	20.0	50.0	80.0	100
Fluoranthene	PHN	Ave	47630 1113836	194793	522809	883983	1028575	5.00 120	20.0	50.0	80.0	100
Benzidine	CRY	Lin1	8119 343897	43153	132234	245438	297312	5.00 120	20.0	50.0	80.0	100
Pyrene	CRY	Ave	48939 1153405	200330	535558	912046	1063283	5.00 120	20.0	50.0	80.0	100
Butyl benzyl phthalate	CRY	Lin1	16313 531197	80938	233263	401362	478862	5.00 120	20.0	50.0	80.0	100
Bis(2-ethylhexyl) phthalate	CRY	Ave	22203 736850	110105	318034	549082	660131	5.00 120	20.0	50.0	80.0	100
3,3'-Dichlorobenzidine	CRY	Lin1	13759 455620	63868	182740	324986	402344	5.00 120	20.0	50.0	80.0	100

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

Lab Name: TestAmerica Buffalo Job No.: 460-110715-1 Analy Batch No.: 290883

SDG No.: _____

Instrument ID: HP5973U GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/15/2016 11:37 Calibration End Date: 03/15/2016 13:51 Calibration ID: 26677

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Benzo[a]anthracene	CRY	Ave	48813 1225544	205942	544761	924123	1094103	5.00 120	20.0	50.0	80.0	100
Chrysene	CRY	Ave	50477 1178074	197624	520081	874159	1049249	5.00 120	20.0	50.0	80.0	100
Di-n-octyl phthalate	CRY	Lin1	35281 1274476	180885	528332	928817	1123731	5.00 120	20.0	50.0	80.0	100
Benzo[b]fluoranthene	PRY	Ave	48263 1360236	208718	537817	993120	1183439	5.00 120	20.0	50.0	80.0	100
Benzo[k]fluoranthene	PRY	Ave	50956 1389377	217578	578319	958645	1191723	5.00 120	20.0	50.0	80.0	100
Benzo[a]pyrene	PRY	Ave	43166 1320666	192625	517276	904128	1131144	5.00 120	20.0	50.0	80.0	100
Dibenz(a,h)anthracene	PRY	Lin1	42758 1547294	189075	521443	961614	1245523	5.00 120	20.0	50.0	80.0	100
Indeno[1,2,3-cd]pyrene	PRY	Lin1	51621 1821560	221879	612040	1118882	1457892	5.00 120	20.0	50.0	80.0	100
Benzo[g,h,i]perylene	PRY	Lin1	42762 1457613	180309	487481	898007	1169140	5.00 120	20.0	50.0	80.0	100
2-Fluorophenol (Surr)	DCB	Ave	15994 401102	64292	163465	289447	355943	5.00 120	20.0	50.0	80.0	100
Phenol-d5 (Surr)	DCB	Ave	19293 463895	81070	201059	358040	434450	5.00 120	20.0	50.0	80.0	100
Nitrobenzene-d5 (Surr)	NPT	Ave	17694 398622	74288	187928	338736	415647	5.00 120	20.0	50.0	80.0	100
2-Fluorobiphenyl	ANT	Ave	34231 700135	138293	339739	597025	704479	5.00 120	20.0	50.0	80.0	100
2,4,6-Tribromophenol (Surr)	PHN	Lin1	4429 139167	21232	61542	112732	132661	5.00 120	20.0	50.0	80.0	100
p-Terphenyl-d14 (Surr)	CRY	Ave	38438 913667	154401	423185	718972	854581	5.00 120	20.0	50.0	80.0	100

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U25626.D
 Lims ID: IC - List1 5ppm
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 15-Mar-2016 11:37:30 ALS Bottle#: 1 Worklist Smp#: 3
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: CAL 5 PT
 Operator ID: MKP Instrument ID: HP5973U
 Sublist: chrom-U-8270*sub56
 Method: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U-8270.m
 Limit Group: MB - 8270D ICAL
 Last Update: 17-Mar-2016 13:23:01 Calib Date: 15-Mar-2016 21:31:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U25648.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK030

First Level Reviewer: pagem

Date: 15-Mar-2016 12:26:01

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.996	6.996	0.000	98	101037	40.0	40.0	
* 2 Naphthalene-d8	136	8.508	8.508	0.000	100	394914	40.0	40.0	
* 3 Acenaphthene-d10	164	10.565	10.565	0.000	99	217319	40.0	40.0	
* 4 Phenanthrene-d10	188	12.082	12.082	0.000	99	351811	40.0	40.0	
* 5 Chrysene-d12	240	14.518	14.518	0.000	97	367882	40.0	40.0	
* 6 Perylene-d12	264	16.195	16.195	0.000	98	369150	40.0	40.0	
\$ 9 2-Fluorophenol	112	5.410	5.409	0.001	95	15994	5.00	4.58	
\$ 10 Phenol-d5	99	6.499	6.499	0.000	87	19293	5.00	4.53	
\$ 11 Nitrobenzene-d5	82	7.637	7.637	0.000	97	17694	5.00	4.50	
\$ 12 2-Fluorobiphenyl	172	9.774	9.774	0.000	99	34231	5.00	4.73	
\$ 13 2,4,6-Tribromophenol	330	11.393	11.393	0.000	90	4429	5.00	5.24	
\$ 14 p-Terphenyl-d14	244	13.503	13.503	0.000	99	38438	5.00	4.75	
80 1,4-Dioxane	88	3.128	3.128	0.000	95	8356	5.00	5.06	
81 N-Nitrosodimethylamine	42	3.550	3.556	-0.006	90	10853	5.00	4.93	
82 Pyridine	52	3.657	3.657	0.000	93	14515	5.00	4.69	
88 Benzaldehyde	77	6.462	6.467	-0.005	92	4222	5.00	4.90	
89 Phenol	94	6.515	6.515	0.000	98	20632	5.00	4.61	
90 Aniline	93	6.585	6.590	-0.005	97	24682	5.00	4.52	
91 Bis(2-chloroethyl)ether	93	6.638	6.638	0.000	97	17602	5.00	4.80	
93 2-Chlorophenol	128	6.745	6.745	0.000	96	16228	5.00	4.54	
258 n-Decane	57	6.782	6.782	0.000	96	20929	5.00	4.61	
94 1,3-Dichlorobenzene	146	6.937	6.937	0.000	97	19706	5.00	4.99	
95 1,4-Dichlorobenzene	146	7.018	7.017	0.001	94	19914	5.00	5.03	
96 Benzyl alcohol	108	7.119	7.124	-0.005	92	10038	5.00	4.40	
97 1,2-Dichlorobenzene	146	7.204	7.204	0.000	96	18029	5.00	4.85	
98 2-Methylphenol	108	7.242	7.242	0.000	98	14302	5.00	4.50	
99 2,2'-oxybis[1-chloropropan	45	7.285	7.285	0.000	94	24563	5.00	4.81	
249 Indene	115	7.306	7.306	0.000	96	30402	5.00	4.77	
102 4-Methylphenol	108	7.413	7.418	-0.005	93	15549	5.00	4.65	
101 N-Nitrosodi-n-propylamine	70	7.429	7.434	-0.005	92	11461	5.00	4.46	
104 Acetophenone	105	7.445	7.445	0.000	95	22671	5.00	4.71	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
106 Hexachloroethane	117	7.616	7.616	0.000	92	7116	5.00	4.55	
107 Nitrobenzene	77	7.659	7.658	0.001	89	16516	5.00	4.55	
110 Isophorone	82	7.931	7.931	0.000	99	29415	5.00	4.54	
111 2-Nitrophenol	139	8.043	8.043	0.000	95	6014	5.00	5.57	
112 2,4-Dimethylphenol	107	8.054	8.054	0.000	94	15599	5.00	4.52	
119 Benzoic acid	105	8.081	8.113	-0.032	1	3339	5.00	5.94	M
115 Bis(2-chloroethoxy)methane	93	8.161	8.161	0.000	99	20125	5.00	4.85	
117 2,4-Dichlorophenol	162	8.321	8.321	0.000	95	11597	5.00	4.27	
120 1,2,4-Trichlorobenzene	180	8.439	8.438	0.001	94	14809	5.00	4.73	
121 Naphthalene	128	8.535	8.535	0.000	97	49720	5.00	4.99	
123 4-Chloroaniline	127	8.572	8.567	0.005	97	19572	5.00	4.61	
124 2,6-Dichlorophenol	162	8.593	8.588	0.005	97	12447	5.00	4.57	
126 Hexachlorobutadiene	225	8.684	8.684	0.000	95	9195	5.00	4.80	
127 Caprolactam	113	8.930	8.946	-0.016	39	3453	5.00	5.25	
131 4-Chloro-3-methylphenol	107	9.122	9.122	0.000	92	11880	5.00	4.30	
133 2-Methylnaphthalene	142	9.357	9.357	0.000	92	30281	5.00	4.75	
252 1-Methylnaphthalene	142	9.475	9.475	0.000	96	28836	5.00	4.80	
136 Hexachlorocyclopentadiene	237	9.555	9.555	0.000	96	9531	5.00	5.11	
138 1,2,4,5-Tetrachlorobenzene	216	9.560	9.560	0.000	97	14474	5.00	4.63	
139 2,4,6-Trichlorophenol	196	9.678	9.678	0.000	95	7368	5.00	5.11	
140 2,4,5-Trichlorophenol	196	9.726	9.726	0.000	92	7661	5.00	5.11	
144 1,1'-Biphenyl	154	9.897	9.897	0.000	95	37611	5.00	4.83	
143 2-Chloronaphthalene	162	9.934	9.934	0.000	96	30071	5.00	4.80	
145 2-Nitroaniline	65	10.025	10.025	0.000	79	6201	5.00	5.39	
147 Dimethyl phthalate	163	10.212	10.217	-0.005	98	31525	5.00	4.58	
50 1,3-Dinitrobenzene	168	10.250	10.255	-0.005	83	2803	5.00	5.82	
148 2,6-Dinitrotoluene	165	10.287	10.287	0.000	87	4914	5.00	5.33	
149 Acenaphthylene	152	10.415	10.410	0.005	98	42301	5.00	4.62	
150 3-Nitroaniline	138	10.485	10.485	0.000	91	5345	5.00	5.36	
152 2,4-Dinitrophenol	184	10.597	10.597	0.000	77	3203	10.0	12.7	
151 Acenaphthene	153	10.602	10.602	0.000	95	29244	5.00	4.79	
153 4-Nitrophenol	109	10.634	10.639	-0.005	94	6259	10.0	10.5	
154 2,4-Dinitrotoluene	165	10.736	10.736	0.000	89	5877	5.00	5.41	
155 Dibenzofuran	168	10.784	10.784	0.000	96	42475	5.00	4.84	
158 2,3,4,6-Tetrachlorophenol	232	10.907	10.907	0.000	94	5692	5.00	5.18	
160 Diethyl phthalate	149	10.976	10.976	0.000	98	29692	5.00	4.45	
257 Hexadecane	57	10.987	10.987	0.000	97	22700	5.00	4.49	
162 4-Chlorophenyl phenyl ethe	204	11.126	11.126	0.000	91	16935	5.00	4.76	
164 4-Nitroaniline	138	11.131	11.136	-0.005	83	5997	5.00	5.46	
161 Fluorene	166	11.147	11.147	0.000	93	33843	5.00	4.69	
166 4,6-Dinitro-2-methylphenol	198	11.168	11.174	-0.006	82	4792	10.0	11.7	
169 Diphenylamine	169	11.238	11.238	0.000	97	23395	4.25	3.89	
167 N-Nitrosodiphenylamine	169	11.238	11.238	0.000	99	23395	5.00	4.57	
170 Azobenzene	77	11.286	11.286	0.000	97	34845	5.00	4.65	
168 1,2-Diphenylhydrazine	77	11.286	11.286	0.000	98	34845	5.00	4.65	
176 4-Bromophenyl phenyl ether	248	11.623	11.622	0.001	95	9416	5.00	4.43	
177 Hexachlorobenzene	284	11.719	11.719	0.000	96	11893	5.00	4.68	
180 Atrazine	200	11.740	11.740	0.000	90	7587	5.00	4.14	
181 Pentachlorophenol	266	11.895	11.895	0.000	92	8587	10.0	11.0	
263 n-Octadecane	57	11.900	11.900	0.000	97	21298	5.00	4.33	
185 Phenanthrene	178	12.103	12.103	0.000	98	47666	5.00	4.86	
188 Anthracene	178	12.151	12.151	0.000	97	46863	5.00	4.64	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
189 Carbazole	167	12.285	12.285	0.000	97	42571	5.00	4.62	
192 Di-n-butyl phthalate	149	12.552	12.547	0.005	100	45010	5.00	4.23	
197 Fluoranthene	202	13.204	13.198	0.006	99	47630	5.00	4.48	
198 Benzidine	184	13.279	13.279	0.000	98	8119	5.00	5.55	
199 Pyrene	202	13.418	13.417	0.001	97	48939	5.00	4.77	
205 Butyl benzyl phthalate	149	13.904	13.898	0.006	97	16313	5.00	5.00	
210 Bis(2-ethylhexyl) phthalat	149	14.390	14.390	0.000	98	22203	5.00	3.75	
208 3,3'-Dichlorobenzidine	252	14.438	14.432	0.006	98	13759	5.00	5.34	
209 Benzo[a]anthracene	228	14.507	14.507	0.000	97	48813	5.00	4.64	
211 Chrysene	228	14.545	14.545	0.000	97	50477	5.00	4.96	
212 Di-n-octyl phthalate	149	15.020	15.020	0.000	99	35281	5.00	5.21	
213 Benzo[b]fluoranthene	252	15.683	15.683	0.000	97	48263	5.00	4.47	
214 Benzo[k]fluoranthene	252	15.715	15.715	0.000	98	50956	5.00	4.59	
217 Benzo[a]pyrene	252	16.121	16.121	0.000	97	43166	5.00	4.27	
220 Dibenz(a,h)anthracene	278	17.889	17.889	0.000	73	42758	5.00	5.55	
219 Indeno[1,2,3-cd]pyrene	276	17.889	17.894	-0.005	94	51621	5.00	5.57	
221 Benzo[g,h,i]perylene	276	18.423	18.423	0.000	97	42762	5.00	5.56	
S 78 3-Methylphenol	1				0			4.65	
S 222 Total Cresols	1				0			9.15	
S 77 3 & 4 Methylphenol	108				0			4.65	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MB_LIST1_WRK_00298

Amount Added: 1.00

Units: mL

MB_INTSTD_STK_00019

Amount Added: 20.00

Units: uL

Run Reagent

Chrom Revision: 2.2 04-Mar-2016 14:36:24

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U25626.D

Instrument ID: HP5973U

Operator ID: MKP

Worklist Smp#: 3

Client ID:

Injection Vol: 1.0 ul

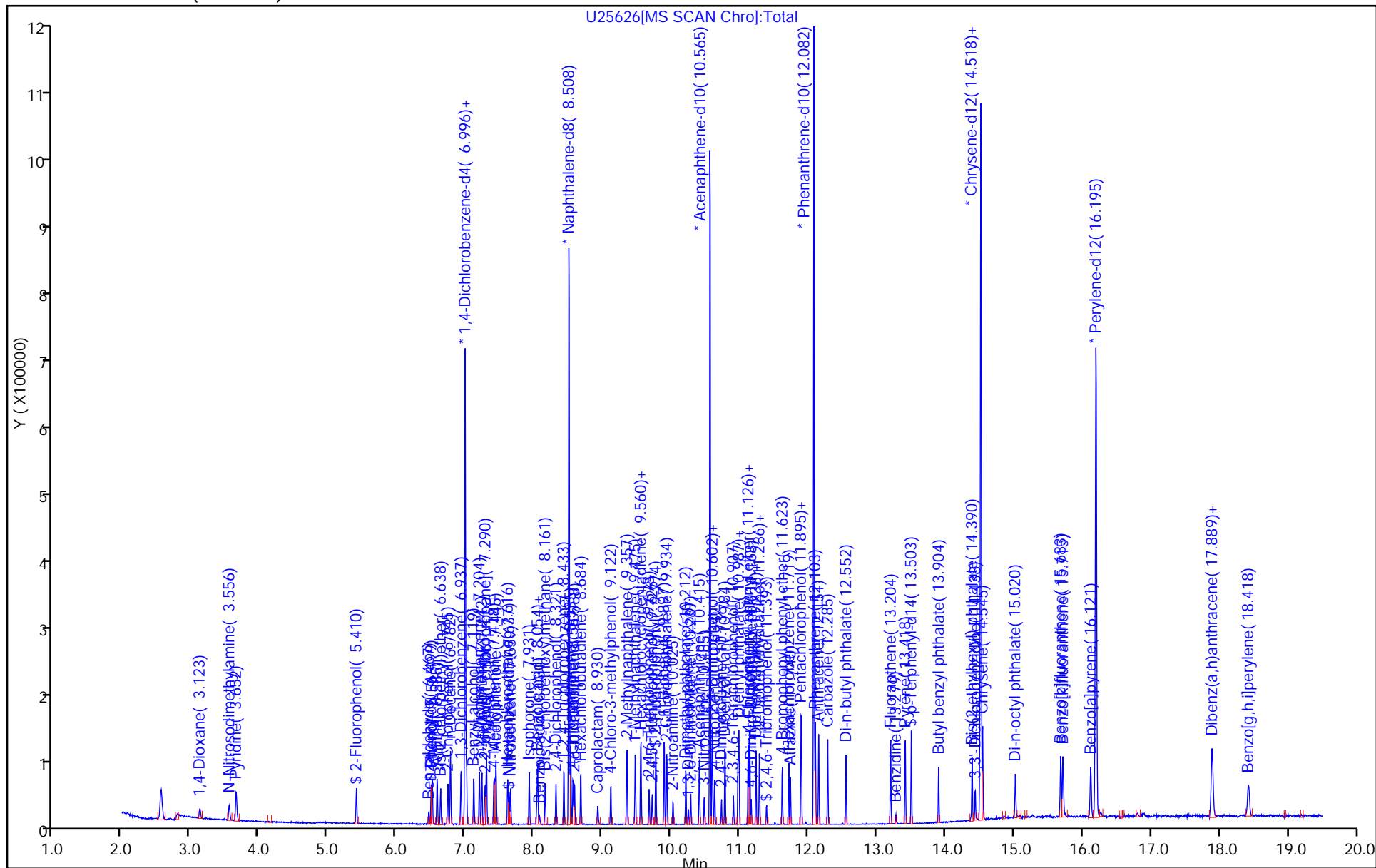
Dil. Factor: 1.0000

ALS Bottle#: 1

Method: U-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U25626.D

Injection Date: 15-Mar-2016 11:37:30

Instrument ID: HP5973U

Lims ID: IC - List1 5ppm

Client ID:

Operator ID: MKP

ALS Bottle#: 1 Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: U-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

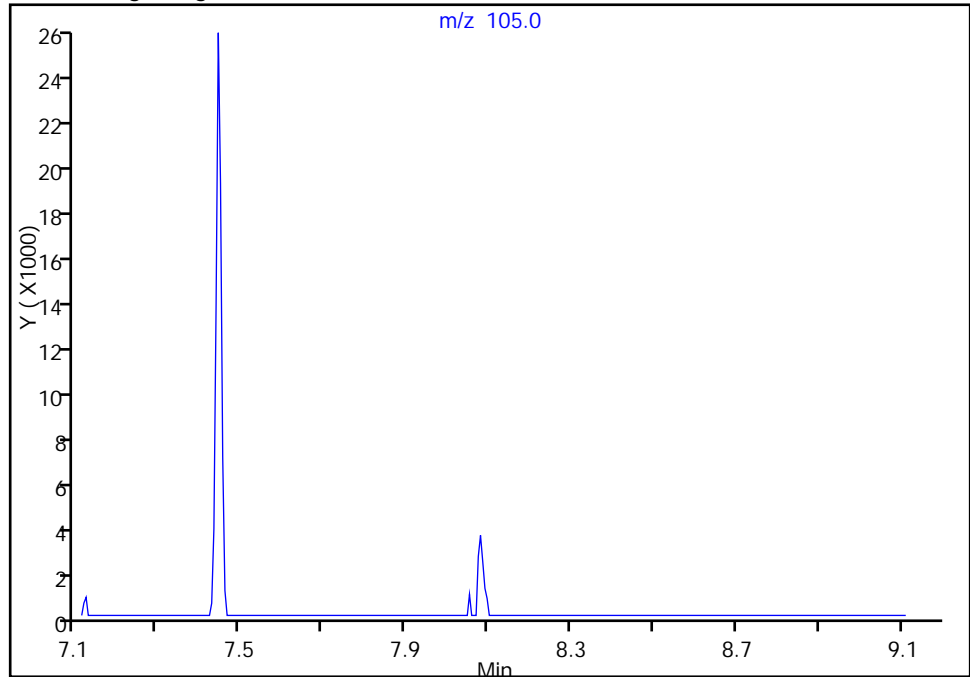
Detector: MS SCAN

119 Benzoic acid, CAS: 65-85-0

Not Detected

Expected RT: 8.11

Processing Integration Results



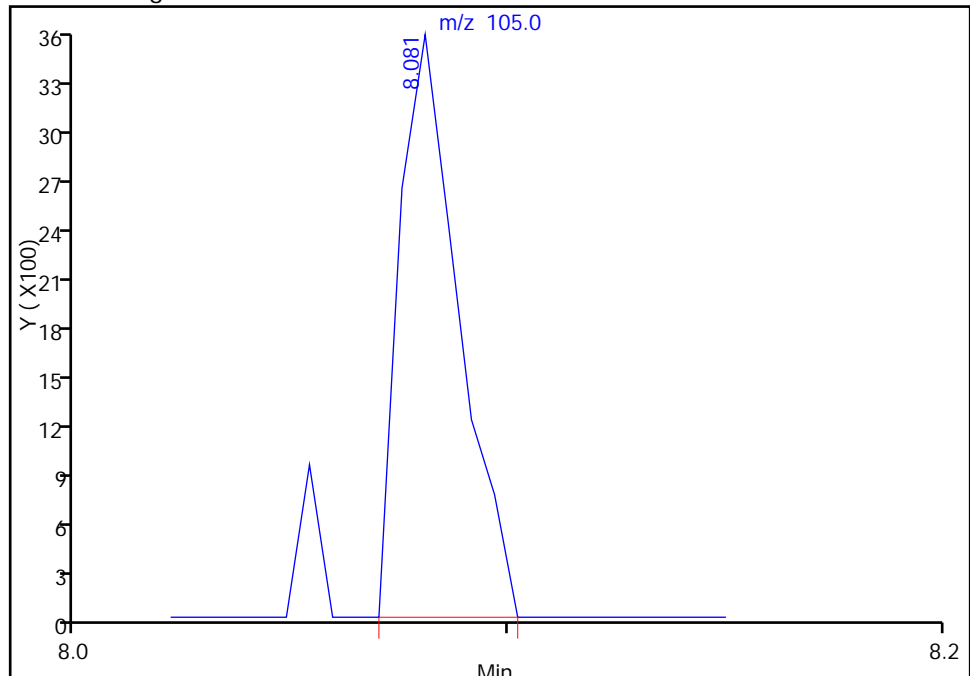
RT: 8.08

Area: 3339

Amount: 5.939121

Amount Units: ng/uL

Manual Integration Results



Reviewer: pagem, 15-Mar-2016 13:14:23

Audit Action: Manually Integrated

Audit Reason: Missed Peak

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U25627.D
 Lims ID: IC - List1 20ppm
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 15-Mar-2016 12:04:30 ALS Bottle#: 2 Worklist Smp#: 4
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 480-0051236-004
 Misc. Info.: IC - LIST1 20PPM
 Operator ID: MKP Instrument ID: HP5973U
 Sublist: chrom-U-8270*sub56
 Method: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U-8270.m
 Limit Group: MB - 8270D ICAL
 Last Update: 17-Mar-2016 13:23:06 Calib Date: 15-Mar-2016 21:31:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U25648.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK030

First Level Reviewer: pagem

Date: 15-Mar-2016 14:49:00

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.996	6.996	0.000	98	94593	40.0	40.0	
* 2 Naphthalene-d8	136	8.508	8.508	0.000	100	372650	40.0	40.0	
* 3 Acenaphthene-d10	164	10.565	10.565	0.000	98	196341	40.0	40.0	
* 4 Phenanthrene-d10	188	12.082	12.082	0.000	98	316574	40.0	40.0	
* 5 Chrysene-d12	240	14.518	14.518	0.000	97	347950	40.0	40.0	
* 6 Perylene-d12	264	16.195	16.195	0.000	97	347320	40.0	40.0	
\$ 9 2-Fluorophenol	112	5.404	5.409	-0.005	97	64292	20.0	19.7	
\$ 10 Phenol-d5	99	6.499	6.499	0.000	88	81070	20.0	20.4	
\$ 11 Nitrobenzene-d5	82	7.632	7.637	-0.005	97	74288	20.0	20.0	
\$ 12 2-Fluorobiphenyl	172	9.774	9.774	0.000	100	138293	20.0	21.1	
\$ 13 2,4,6-Tribromophenol	330	11.393	11.393	0.000	93	21232	20.0	19.0	
\$ 14 p-Terphenyl-d14	244	13.503	13.503	0.000	99	154401	20.0	20.2	
80 1,4-Dioxane	88	3.118	3.128	-0.010	99	31132	20.0	20.1	
81 N-Nitrosodimethylamine	42	3.540	3.556	-0.016	89	43469	20.0	21.1	
82 Pyridine	52	3.641	3.657	-0.016	93	58918	20.0	20.3	
88 Benzaldehyde	77	6.462	6.467	-0.005	95	15954	20.0	19.8	
89 Phenol	94	6.515	6.515	0.000	98	87019	20.0	20.8	
90 Aniline	93	6.585	6.590	-0.005	97	105302	20.0	20.6	
91 Bis(2-chloroethyl)ether	93	6.638	6.638	0.000	97	71266	20.0	20.7	
93 2-Chlorophenol	128	6.745	6.745	0.000	97	66304	20.0	19.8	
258 n-Decane	57	6.782	6.782	0.000	97	86480	20.0	20.3	
94 1,3-Dichlorobenzene	146	6.932	6.937	-0.005	97	75936	20.0	20.5	
95 1,4-Dichlorobenzene	146	7.012	7.017	-0.005	93	75145	20.0	20.3	
96 Benzyl alcohol	108	7.119	7.124	-0.005	92	43091	20.0	20.2	
97 1,2-Dichlorobenzene	146	7.204	7.204	0.000	94	71996	20.0	20.7	
98 2-Methylphenol	108	7.242	7.242	0.000	98	60784	20.0	20.4	
99 2,2'-oxybis[1-chloropropan	45	7.284	7.285	-0.001	94	97968	20.0	20.5	
249 Indene	115	7.306	7.306	0.000	96	123523	20.0	20.7	
102 4-Methylphenol	108	7.413	7.418	-0.005	95	63397	20.0	20.3	
101 N-Nitrosodi-n-propylamine	70	7.429	7.434	-0.005	90	48313	20.0	20.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
104 Acetophenone	105	7.445	7.445	0.000	96	94893	20.0	21.0	
106 Hexachloroethane	117	7.616	7.616	0.000	95	29995	20.0	20.5	
107 Nitrobenzene	77	7.658	7.658	0.000	89	68723	20.0	20.1	
110 Isophorone	82	7.931	7.931	0.000	99	122695	20.0	20.1	
111 2-Nitrophenol	139	8.038	8.043	-0.005	96	26515	20.0	18.1	
112 2,4-Dimethylphenol	107	8.054	8.054	0.000	96	66277	20.0	20.4	
119 Benzoic acid	105	8.097	8.113	-0.016	76	24353	20.0	16.7	M
115 Bis(2-chloroethoxy)methane	93	8.161	8.161	0.000	98	78929	20.0	20.2	
117 2,4-Dichlorophenol	162	8.321	8.321	0.000	95	50622	20.0	19.8	
120 1,2,4-Trichlorobenzene	180	8.433	8.438	-0.005	94	60552	20.0	20.5	
121 Naphthalene	128	8.535	8.535	0.000	98	194173	20.0	20.7	
123 4-Chloroaniline	127	8.567	8.567	0.000	96	80769	20.0	20.2	
124 2,6-Dichlorophenol	162	8.588	8.588	0.000	96	51451	20.0	20.0	
126 Hexachlorobutadiene	225	8.679	8.684	-0.005	97	36473	20.0	20.2	
127 Caprolactam	113	8.935	8.946	-0.011	77	17136	20.0	19.0	
131 4-Chloro-3-methylphenol	107	9.117	9.122	-0.005	93	51604	20.0	19.8	
133 2-Methylnaphthalene	142	9.357	9.357	0.000	92	123833	20.0	20.6	
252 1-Methylnaphthalene	142	9.475	9.475	0.000	98	118298	20.0	20.9	
136 Hexachlorocyclopentadiene	237	9.555	9.555	0.000	96	42174	20.0	20.2	
138 1,2,4,5-Tetrachlorobenzene	216	9.560	9.560	0.000	98	58349	20.0	20.7	
139 2,4,6-Trichlorophenol	196	9.678	9.678	0.000	96	33795	20.0	19.7	
140 2,4,5-Trichlorophenol	196	9.721	9.726	-0.005	96	35319	20.0	19.8	
144 1,1'-Biphenyl	154	9.897	9.897	0.000	96	148020	20.0	21.0	
143 2-Chloronaphthalene	162	9.934	9.934	0.000	97	118699	20.0	21.0	
145 2-Nitroaniline	65	10.025	10.025	0.000	82	29351	20.0	18.7	
147 Dimethyl phthalate	163	10.212	10.217	-0.005	99	129130	20.0	20.8	
50 1,3-Dinitrobenzene	168	10.255	10.255	0.000	83	14536	20.0	17.4	
148 2,6-Dinitrotoluene	165	10.287	10.287	0.000	94	24792	20.0	19.0	
149 Acenaphthylene	152	10.410	10.410	0.000	98	173320	20.0	21.0	
150 3-Nitroaniline	138	10.479	10.485	-0.006	92	27427	20.0	19.2	
152 2,4-Dinitrophenol	184	10.591	10.597	-0.006	83	18071	40.0	31.8	
151 Acenaphthene	153	10.602	10.602	0.000	96	112934	20.0	20.5	
153 4-Nitrophenol	109	10.634	10.639	-0.005	94	30963	40.0	38.8	
154 2,4-Dinitrotoluene	165	10.736	10.736	0.000	93	31806	20.0	18.8	
155 Dibenzofuran	168	10.784	10.784	0.000	97	166500	20.0	21.0	
158 2,3,4,6-Tetrachlorophenol	232	10.907	10.907	0.000	96	29404	20.0	19.8	
160 Diethyl phthalate	149	10.976	10.976	0.000	98	124192	20.0	20.6	
257 Hexadecane	57	10.987	10.987	0.000	97	94971	20.0	20.8	
162 4-Chlorophenyl phenyl ethe	204	11.126	11.126	0.000	92	65151	20.0	20.3	
164 4-Nitroaniline	138	11.131	11.136	-0.005	82	28356	20.0	18.7	
161 Fluorene	166	11.147	11.147	0.000	94	135009	20.0	20.7	
166 4,6-Dinitro-2-methylphenol	198	11.168	11.174	-0.006	86	30331	40.0	34.5	
169 Diphenylamine	169	11.238	11.238	0.000	97	95749	17.0	17.7	
167 N-Nitrosodiphenylamine	169	11.238	11.238	0.000	98	95749	20.0	20.8	
170 Azobenzene	77	11.286	11.286	0.000	97	143392	20.0	21.3	
168 1,2-Diphenylhydrazine	77	11.286	11.286	0.000	99	143392	20.0	21.3	
176 4-Bromophenyl phenyl ether	248	11.617	11.622	-0.005	95	38935	20.0	20.4	
177 Hexachlorobenzene	284	11.719	11.719	0.000	96	46770	20.0	20.4	
180 Atrazine	200	11.740	11.740	0.000	92	33640	20.0	20.3	
181 Pentachlorophenol	266	11.890	11.895	-0.005	93	45024	40.0	36.7	
263 n-Octadecane	57	11.895	11.900	-0.005	98	92476	20.0	20.9	
185 Phenanthrene	178	12.103	12.103	0.000	96	183570	20.0	20.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
188 Anthracene	178	12.151	12.151	0.000	97	184189	20.0	20.3	
189 Carbazole	167	12.285	12.285	0.000	96	168181	20.0	20.3	
192 Di-n-butyl phthalate	149	12.547	12.547	0.000	100	190120	20.0	19.9	
197 Fluoranthene	202	13.198	13.198	0.000	99	194793	20.0	20.4	
198 Benzidine	184	13.278	13.279	-0.001	99	43153	20.0	18.3	
199 Pyrene	202	13.412	13.417	-0.005	97	200330	20.0	20.6	
205 Butyl benzyl phthalate	149	13.898	13.898	0.000	99	80938	20.0	19.8	
210 Bis(2-ethylhexyl) phthalat	149	14.390	14.390	0.000	97	110105	20.0	19.7	
208 3,3'-Dichlorobenzidine	252	14.432	14.432	0.000	99	63868	20.0	19.1	
209 Benzo[a]anthracene	228	14.502	14.507	-0.005	97	205942	20.0	20.7	
211 Chrysene	228	14.539	14.545	-0.006	97	197624	20.0	20.5	
212 Di-n-octyl phthalate	149	15.020	15.020	0.000	100	180885	20.0	19.3	
213 Benzo[b]fluoranthene	252	15.683	15.683	-0.001	97	208718	20.0	20.5	
214 Benzo[k]fluoranthene	252	15.715	15.715	0.000	98	217578	20.0	20.9	
217 Benzo[a]pyrene	252	16.121	16.121	0.000	97	192625	20.0	20.2	
220 Dibenz(a,h)anthracene	278	17.889	17.889	0.000	77	189075	20.0	18.9	
219 Indeno[1,2,3-cd]pyrene	276	17.889	17.894	-0.005	93	221879	20.0	18.9	
221 Benzo[g,h,i]perylene	276	18.423	18.423	0.000	97	180309	20.0	19.0	
S 78 3-Methylphenol	1				0			20.3	
S 222 Total Cresols	1				0			40.7	
S 77 3 & 4 Methylphenol	108				0			20.3	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MB_LIST1_WRK_00299

Amount Added: 1.00

Units: mL

MB_INTSTD_STK_00019

Amount Added: 20.00

Units: uL

Run Reagent

Report Date: 17-Mar-2016 13:23:09

Chrom Revision: 2.2 04-Mar-2016 14:36:24

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973U\\20160314-51236.b\\U25627.D

Injection Date: 15-Mar-2016 12:04:30

Instrument ID: HP5973U

Operator ID: MKP

Lims ID: IC - List1 20ppm

Worklist Smp#: 4

Client ID:

Injection Vol: 1.0 ul

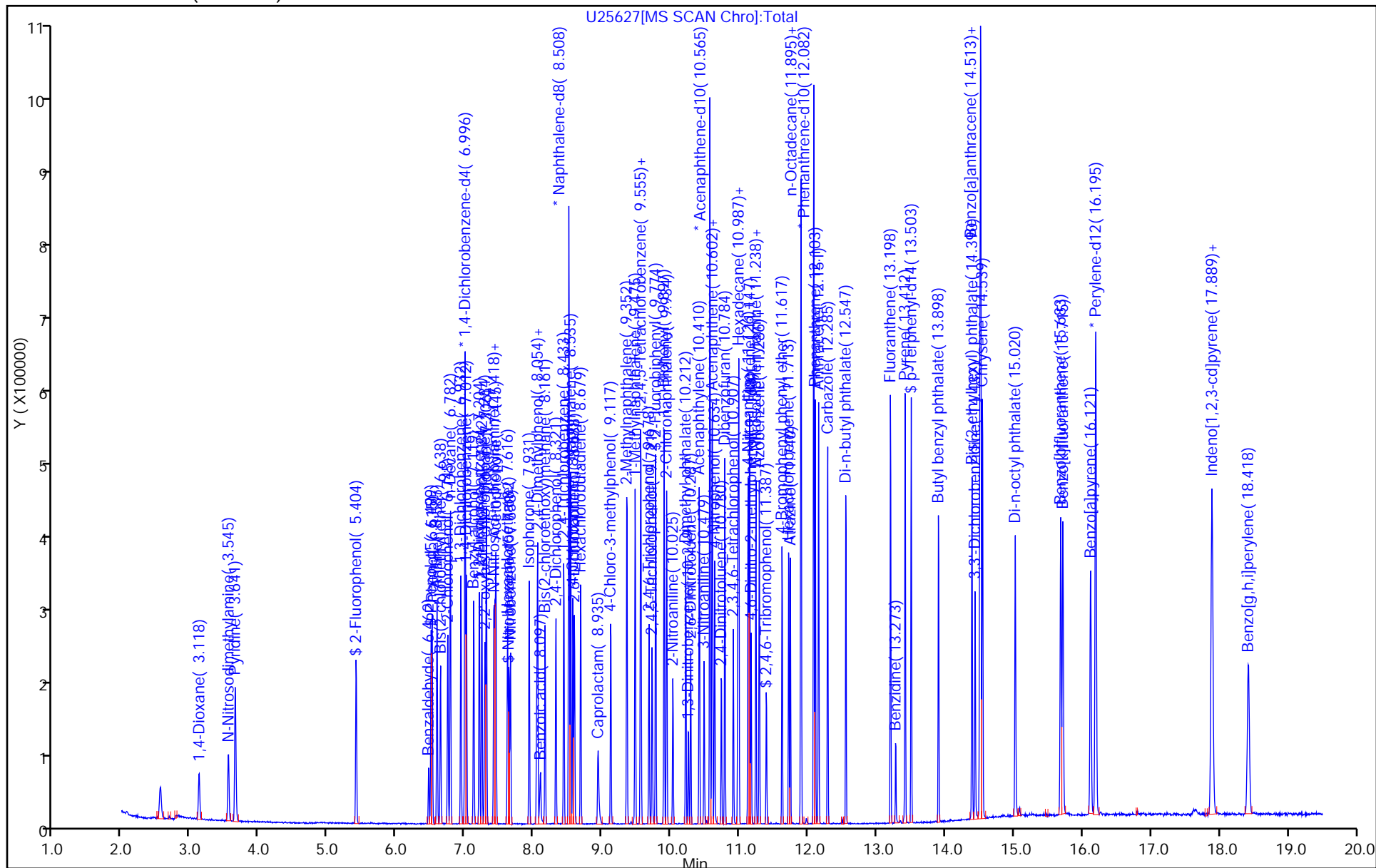
Dil. Factor: 1.0000

ALS Bottle#: 2

Method: U-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U25627.D

Injection Date: 15-Mar-2016 12:04:30

Instrument ID: HP5973U

Lims ID: IC - List1 20ppm

Client ID:

Operator ID: MKP

ALS Bottle#:

2

Worklist Smp#: 4

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: U-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

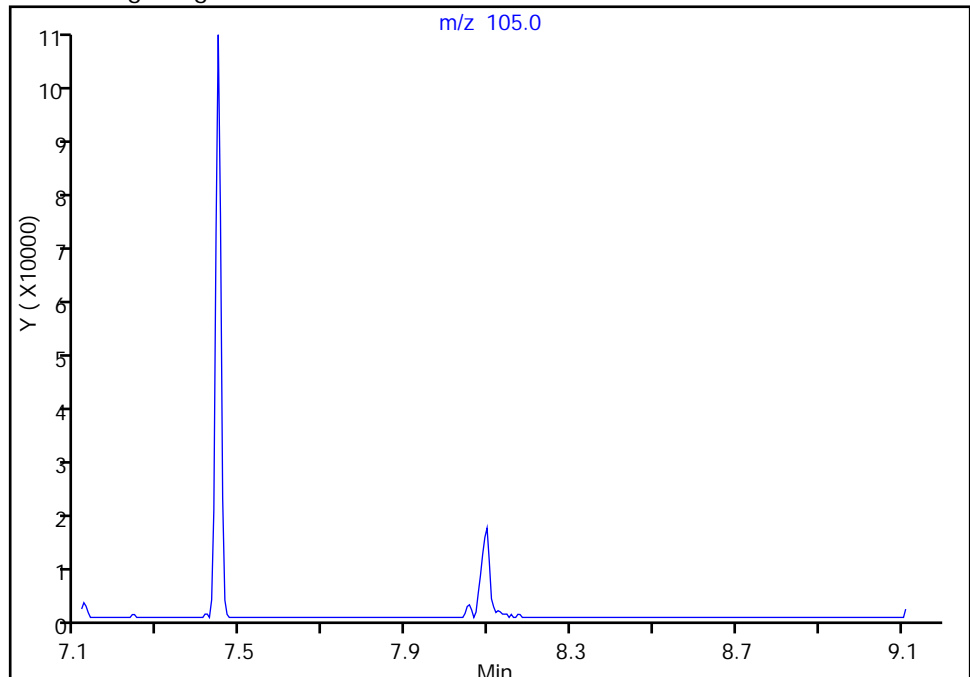
Detector: MS SCAN

119 Benzoic acid, CAS: 65-85-0

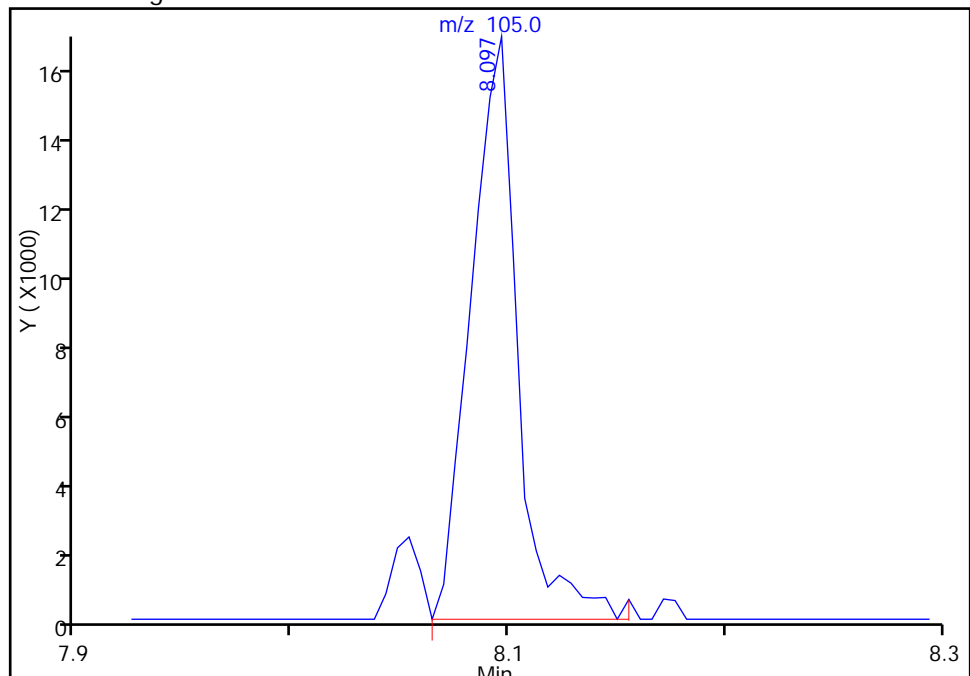
Not Detected

Expected RT: 8.11

Processing Integration Results



Manual Integration Results



Reviewer: pagem, 16-Mar-2016 10:48:50

Audit Action: Split an Integrated Peak

Audit Reason: Peak Tail

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U25628.D
 Lims ID: ICIS - List1 50ppm
 Client ID:
 Sample Type: ICIS Calib Level: 3
 Inject. Date: 15-Mar-2016 12:31:30 ALS Bottle#: 3 Worklist Smp#: 5
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 480-0051236-005
 Misc. Info.: ICIS - LIST1 50PPM
 Operator ID: MKP Instrument ID: HP5973U
 Sublist: chrom-U-8270*sub56
 Method: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U-8270.m
 Limit Group: MB - 8270D ICAL
 Last Update: 17-Mar-2016 13:23:11 Calib Date: 15-Mar-2016 21:31:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U25648.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK030

First Level Reviewer: pagem

Date: 17-Mar-2016 13:22:44

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.996	6.996	0.000	97	94577	40.0	40.0	
* 2 Naphthalene-d8	136	8.508	8.508	0.000	100	378282	40.0	40.0	
* 3 Acenaphthene-d10	164	10.565	10.565	0.000	99	206539	40.0	40.0	
* 4 Phenanthrene-d10	188	12.082	12.082	0.000	98	334923	40.0	40.0	
* 5 Chrysene-d12	240	14.518	14.518	0.000	97	377584	40.0	40.0	
* 6 Perylene-d12	264	16.195	16.195	0.000	97	375432	40.0	40.0	
\$ 9 2-Fluorophenol	112	5.409	5.409	0.000	96	163465	50.0	50.0	
\$ 10 Phenol-d5	99	6.499	6.499	0.000	87	201059	50.0	50.5	
\$ 11 Nitrobenzene-d5	82	7.637	7.637	0.000	96	187928	50.0	49.9	
\$ 12 2-Fluorobiphenyl	172	9.774	9.774	0.000	100	339739	50.0	49.4	
\$ 13 2,4,6-Tribromophenol	330	11.393	11.393	0.000	93	61542	50.0	48.6	
\$ 14 p-Terphenyl-d14	244	13.503	13.503	0.000	99	423185	50.0	51.0	
80 1,4-Dioxane	88	3.128	3.128	0.000	97	76518	50.0	49.5	
81 N-Nitrosodimethylamine	42	3.556	3.556	0.000	90	101876	50.0	49.4	
82 Pyridine	52	3.657	3.657	0.000	92	144453	50.0	49.9	
88 Benzaldehyde	77	6.467	6.467	0.000	93	40117	50.0	49.7	
89 Phenol	94	6.515	6.515	0.000	99	211410	50.0	50.5	
90 Aniline	93	6.590	6.590	0.000	97	258539	50.0	50.6	
91 Bis(2-chloroethyl)ether	93	6.638	6.638	0.000	98	173023	50.0	50.4	
93 2-Chlorophenol	128	6.745	6.745	0.000	98	168486	50.0	50.3	
258 n-Decane	57	6.782	6.782	0.000	97	213551	50.0	50.2	
94 1,3-Dichlorobenzene	146	6.937	6.937	0.000	97	182332	50.0	49.3	
95 1,4-Dichlorobenzene	146	7.017	7.017	0.000	92	184648	50.0	49.8	
96 Benzyl alcohol	108	7.124	7.124	0.000	92	108898	50.0	51.0	
97 1,2-Dichlorobenzene	146	7.204	7.204	0.000	95	174083	50.0	50.0	
98 2-Methylphenol	108	7.242	7.242	0.000	97	152513	50.0	51.2	
99 2,2'-oxybis[1-chloropropan	45	7.285	7.285	0.000	94	240240	50.0	50.3	
249 Indene	115	7.306	7.306	0.000	97	299960	50.0	50.3	
102 4-Methylphenol	108	7.418	7.418	0.000	95	158926	50.0	50.8	
101 N-Nitrosodi-n-propylamine	70	7.434	7.434	0.000	91	125280	50.0	52.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
104 Acetophenone	105	7.445	7.445	0.000	95	231099	50.0	51.2	
106 Hexachloroethane	117	7.616	7.616	0.000	96	74327	50.0	50.8	
107 Nitrobenzene	77	7.658	7.658	0.000	89	171981	50.0	49.5	
110 Isophorone	82	7.931	7.931	0.000	99	316562	50.0	51.0	
111 2-Nitrophenol	139	8.043	8.043	0.000	96	75663	50.0	47.1	
112 2,4-Dimethylphenol	107	8.054	8.054	0.000	95	165882	50.0	50.2	
119 Benzoic acid	105	8.113	8.113	0.000	87	80898	50.0	44.8	M
115 Bis(2-chloroethoxy)methane	93	8.161	8.161	0.000	99	198148	50.0	49.9	
117 2,4-Dichlorophenol	162	8.321	8.321	0.000	95	131877	50.0	50.7	
120 1,2,4-Trichlorobenzene	180	8.438	8.438	0.000	94	148778	50.0	49.6	
121 Naphthalene	128	8.535	8.535	0.000	98	472129	50.0	49.5	
123 4-Chloroaniline	127	8.567	8.567	0.000	97	205983	50.0	50.7	
124 2,6-Dichlorophenol	162	8.588	8.588	0.000	97	130876	50.0	50.2	
126 Hexachlorobutadiene	225	8.684	8.684	0.000	96	90938	50.0	49.6	
127 Caprolactam	113	8.946	8.946	0.000	79	47483	50.0	48.4	
131 4-Chloro-3-methylphenol	107	9.122	9.122	0.000	93	137043	50.0	51.8	
133 2-Methylnaphthalene	142	9.357	9.357	0.000	92	306737	50.0	50.2	
252 1-Methylnaphthalene	142	9.475	9.475	0.000	97	286054	50.0	49.7	
136 Hexachlorocyclopentadiene	237	9.555	9.555	0.000	96	107984	50.0	47.3	
138 1,2,4,5-Tetrachlorobenzene	216	9.560	9.560	0.000	98	146329	50.0	49.3	
139 2,4,6-Trichlorophenol	196	9.678	9.678	0.000	96	92470	50.0	48.8	
140 2,4,5-Trichlorophenol	196	9.726	9.726	0.000	95	95173	50.0	48.3	
144 1,1'-Biphenyl	154	9.897	9.897	0.000	96	365695	50.0	49.4	
143 2-Chloronaphthalene	162	9.934	9.934	0.000	97	296436	50.0	49.8	
145 2-Nitroaniline	65	10.025	10.025	0.000	83	85371	50.0	47.6	
147 Dimethyl phthalate	163	10.217	10.217	0.000	99	326466	50.0	50.0	
50 1,3-Dinitrobenzene	168	10.255	10.255	0.000	84	43324	50.0	44.8	
148 2,6-Dinitrotoluene	165	10.287	10.287	0.000	95	71638	50.0	48.0	
149 Acenaphthylene	152	10.410	10.410	0.000	99	435109	50.0	50.0	
150 3-Nitroaniline	138	10.485	10.485	0.000	92	76932	50.0	47.1	
152 2,4-Dinitrophenol	184	10.597	10.597	0.000	83	63235	100.0	84.7	
151 Acenaphthene	153	10.602	10.602	0.000	94	288148	50.0	49.7	
153 4-Nitrophenol	109	10.639	10.639	0.000	93	86731	100.0	96.3	
154 2,4-Dinitrotoluene	165	10.736	10.736	0.000	93	92145	50.0	47.1	
155 Dibenzofuran	168	10.784	10.784	0.000	96	412937	50.0	49.5	
158 2,3,4,6-Tetrachlorophenol	232	10.907	10.907	0.000	97	78609	50.0	47.2	
160 Diethyl phthalate	149	10.976	10.976	0.000	98	321667	50.0	50.7	
257 Hexadecane	57	10.987	10.987	0.000	97	241953	50.0	50.4	
162 4-Chlorophenyl phenyl ethe	204	11.126	11.126	0.000	90	169454	50.0	50.1	
164 4-Nitroaniline	138	11.136	11.136	0.000	83	81865	50.0	47.4	
161 Fluorene	166	11.147	11.147	0.000	94	338513	50.0	49.4	
166 4,6-Dinitro-2-methylphenol	198	11.174	11.174	0.000	86	99172	100.0	90.2	
169 Diphenylamine	169	11.238	11.238	0.000	96	243103	42.5	42.4	
167 N-Nitrosodiphenylamine	169	11.238	11.238	0.000	98	243103	50.0	49.9	
170 Azobenzene	77	11.286	11.286	0.000	98	356819	50.0	50.0	
168 1,2-Diphenylhydrazine	77	11.286	11.286	0.000	99	356819	50.0	50.0	
176 4-Bromophenyl phenyl ether	248	11.622	11.622	0.000	95	100919	50.0	49.9	
177 Hexachlorobenzene	284	11.719	11.719	0.000	96	121563	50.0	50.2	
180 Atrazine	200	11.740	11.740	0.000	92	89181	50.0	51.2	
181 Pentachlorophenol	266	11.895	11.895	0.000	94	137355	100.0	95.3	
263 n-Octadecane	57	11.900	11.900	0.000	98	243107	50.0	51.9	
185 Phenanthrene	178	12.103	12.103	0.000	97	467851	50.0	50.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
188 Anthracene	178	12.151	12.151	0.000	97	489008	50.0	50.9	
189 Carbazole	167	12.285	12.285	0.000	96	449100	50.0	51.2	
192 Di-n-butyl phthalate	149	12.547	12.547	0.000	100	528369	50.0	52.2	
197 Fluoranthene	202	13.198	13.198	0.000	98	522809	50.0	51.7	
198 Benzidine	184	13.279	13.279	0.000	99	132234	50.0	46.7	
199 Pyrene	202	13.417	13.417	0.000	97	535558	50.0	50.8	
205 Butyl benzyl phthalate	149	13.898	13.898	0.000	99	233263	50.0	50.1	
210 Bis(2-ethylhexyl) phthalat	149	14.390	14.390	0.000	97	318034	50.0	52.3	
208 3,3'-Dichlorobenzidine	252	14.432	14.432	0.000	99	182740	50.0	47.5	
209 Benzo[a]anthracene	228	14.507	14.507	0.000	98	544761	50.0	50.5	
211 Chrysene	228	14.545	14.545	0.000	97	520081	50.0	49.8	
212 Di-n-octyl phthalate	149	15.020	15.020	0.000	100	528332	50.0	48.7	
213 Benzo[b]fluoranthene	252	15.683	15.683	0.000	97	537817	50.0	48.9	
214 Benzo[k]fluoranthene	252	15.715	15.715	0.000	98	578319	50.0	51.3	
217 Benzo[a]pyrene	252	16.121	16.121	0.000	97	517276	50.0	50.3	
220 Dibenz(a,h)anthracene	278	17.889	17.889	0.000	87	521443	50.0	45.3	
219 Indeno[1,2,3-cd]pyrene	276	17.894	17.894	0.000	98	612040	50.0	45.3	
221 Benzo[g,h,i]perylene	276	18.423	18.423	0.000	97	487481	50.0	45.0	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MB_LIST1_WRK_00304

Amount Added: 1.00

Units: mL

MB_INTSTD_STK_00019

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973U\\20160314-51236.b\\U25628.D

Injection Date: 15-Mar-2016 12:31:30

Instrument ID: HP5973U

Operator ID: MKP

Lims ID: ICIS - List1 50ppm

Worklist Smp#: 5

Client ID:

Injection Vol: 1.0 ul

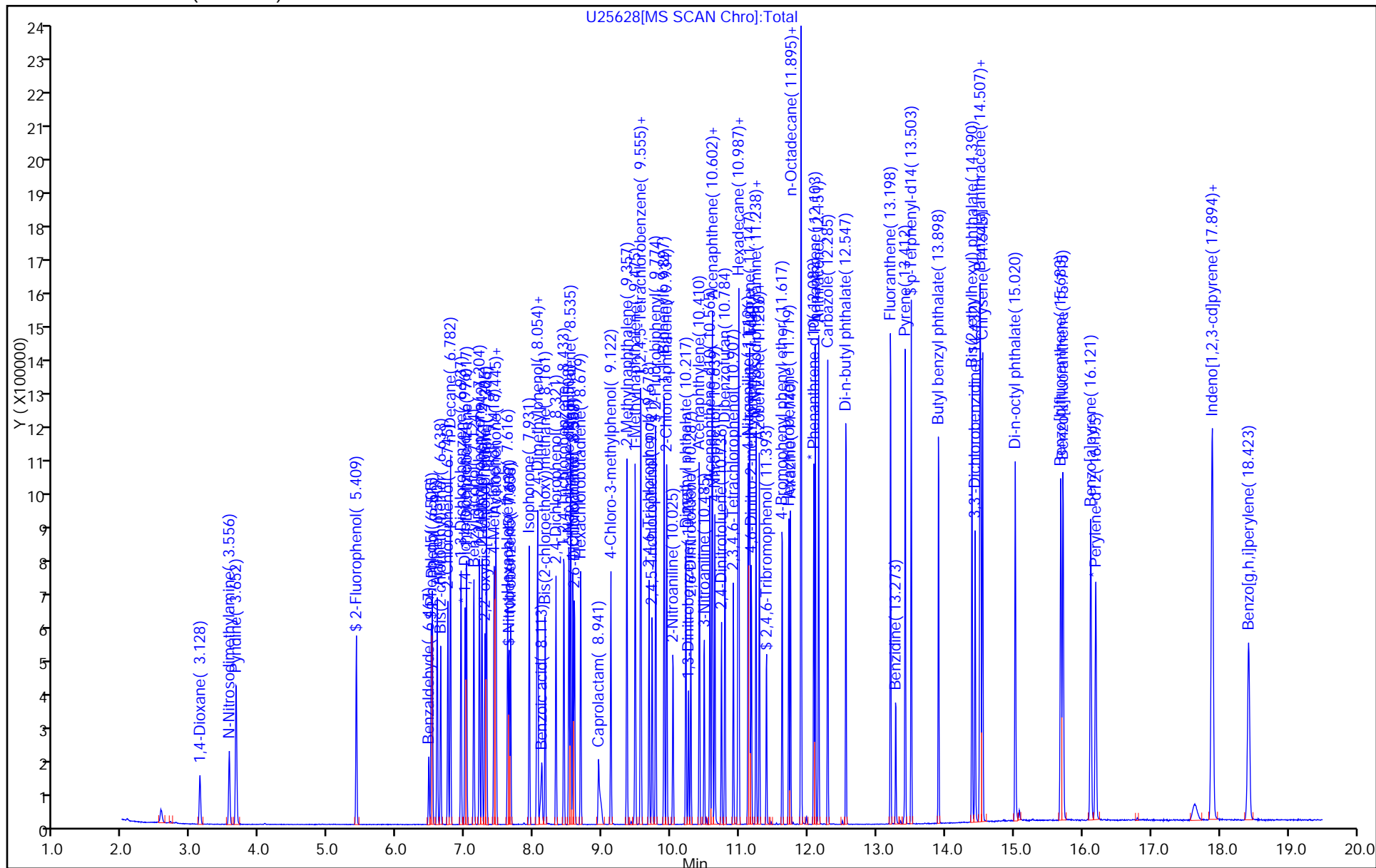
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: U-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U25628.D

Injection Date: 15-Mar-2016 12:31:30

Instrument ID: HP5973U

Lims ID: ICIS - List1 50ppm

Client ID:

Operator ID: MKP

ALS Bottle#:

3

Worklist Smp#: 5

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: U-8270

Limit Group: MB - 8270D ICAL

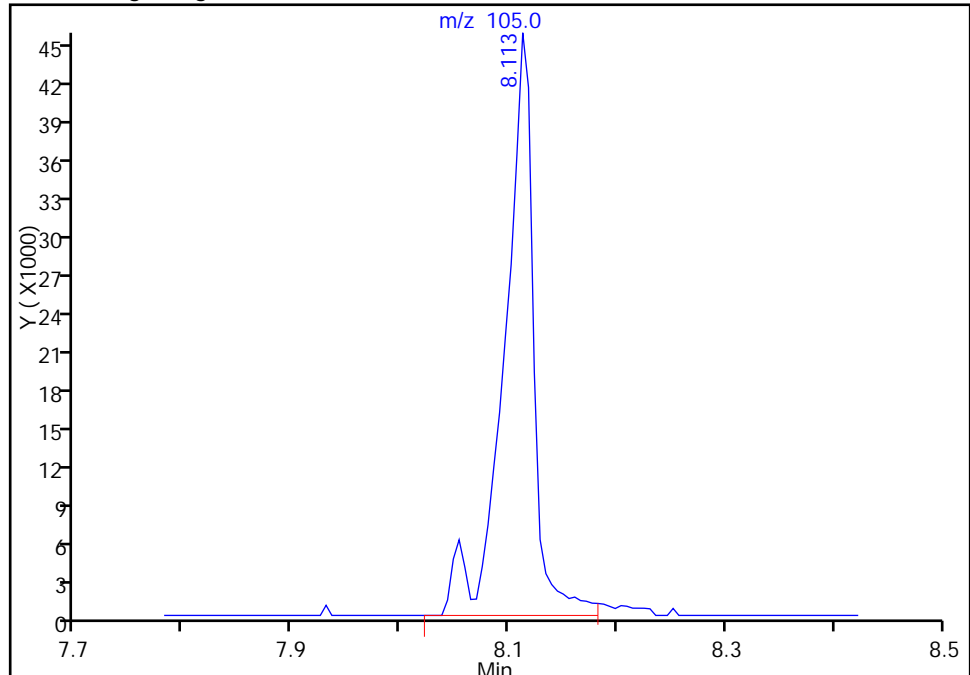
Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

119 Benzoic acid, CAS: 65-85-0

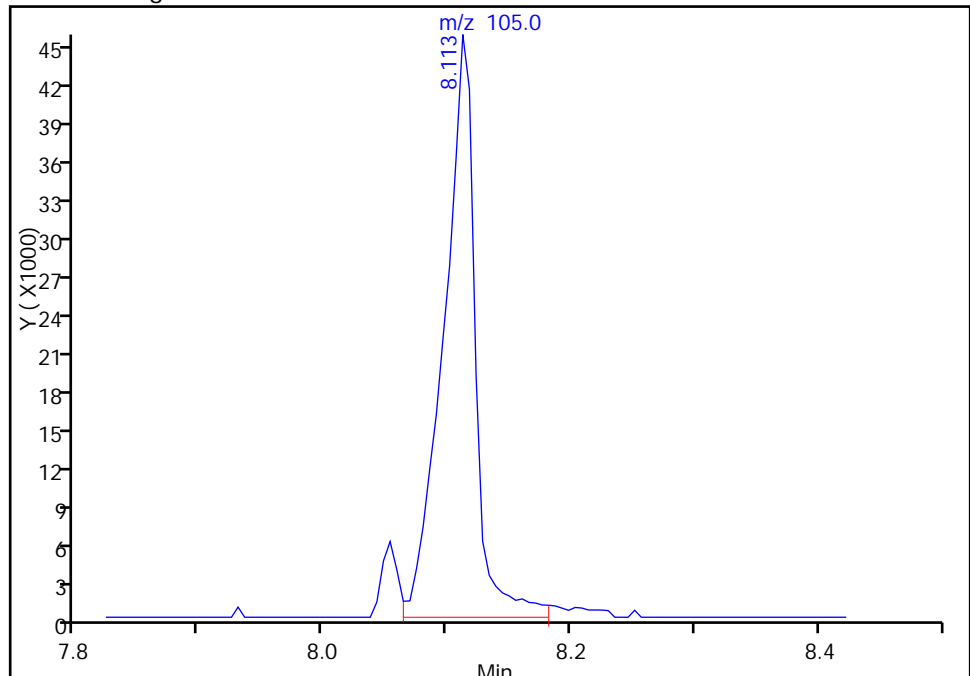
RT: 8.11
Area: 85770
Amount: 44.959823
Amount Units: ng/uL

Processing Integration Results



RT: 8.11
Area: 80898
Amount: 44.789046
Amount Units: ng/uL

Manual Integration Results



Reviewer: pagem, 16-Mar-2016 10:46:37

Audit Action: Split an Integrated Peak

Audit Reason: Peak Tail

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U25629.D
 Lims ID: IC - List1 80ppm
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 15-Mar-2016 12:57:30 ALS Bottle#: 4 Worklist Smp#: 6
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 480-0051236-006
 Misc. Info.: IC - LIST1 80PPM
 Operator ID: MKP Instrument ID: HP5973U
 Sublist: chrom-U-8270*sub56
 Method: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U-8270.m
 Limit Group: MB - 8270D ICAL
 Last Update: 17-Mar-2016 13:23:16 Calib Date: 15-Mar-2016 21:31:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U25648.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK030

First Level Reviewer: pagem

Date: 15-Mar-2016 14:50:09

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.996	6.996	0.000	97	100865	40.0	40.0	
* 2 Naphthalene-d8	136	8.508	8.508	0.000	99	407325	40.0	40.0	
* 3 Acenaphthene-d10	164	10.565	10.565	0.000	99	222653	40.0	40.0	
* 4 Phenanthrene-d10	188	12.082	12.082	0.000	99	357154	40.0	40.0	
* 5 Chrysene-d12	240	14.518	14.518	0.000	97	394666	40.0	40.0	
* 6 Perylene-d12	264	16.196	16.195	0.001	97	394343	40.0	40.0	
\$ 9 2-Fluorophenol	112	5.410	5.409	0.001	96	289447	80.0	83.0	
\$ 10 Phenol-d5	99	6.505	6.499	0.006	88	358040	80.0	84.3	
\$ 11 Nitrobenzene-d5	82	7.637	7.637	0.000	96	338736	80.0	83.6	
\$ 12 2-Fluorobiphenyl	172	9.774	9.774	0.000	99	597025	80.0	80.5	
\$ 13 2,4,6-Tribromophenol	330	11.393	11.393	0.000	93	112732	80.0	82.0	
\$ 14 p-Terphenyl-d14	244	13.503	13.503	0.000	99	718972	80.0	82.8	
80 1,4-Dioxane	88	3.128	3.128	0.000	98	129052	80.0	78.3	
81 N-Nitrosodimethylamine	42	3.561	3.556	0.005	90	178410	80.0	81.2	
82 Pyridine	52	3.657	3.657	0.000	92	254050	80.0	82.2	
88 Benzaldehyde	77	6.467	6.467	0.000	94	70468	80.0	81.9	
89 Phenol	94	6.521	6.515	0.006	98	373618	80.0	83.7	
90 Aniline	93	6.590	6.590	0.000	97	457746	80.0	84.1	
91 Bis(2-chloroethyl)ether	93	6.638	6.638	0.000	98	303262	80.0	82.8	
93 2-Chlorophenol	128	6.745	6.745	0.000	97	303404	80.0	85.0	
258 n-Decane	57	6.783	6.782	0.001	98	368334	80.0	81.2	
94 1,3-Dichlorobenzene	146	6.938	6.937	0.001	97	317036	80.0	80.4	
95 1,4-Dichlorobenzene	146	7.018	7.017	0.001	92	318985	80.0	80.7	
96 Benzyl alcohol	108	7.124	7.124	0.000	92	196384	80.0	86.3	
97 1,2-Dichlorobenzene	146	7.205	7.204	0.001	95	300867	80.0	81.1	
98 2-Methylphenol	108	7.242	7.242	0.000	97	268405	80.0	84.5	
99 2,2'-oxybis[1-chloropropan	45	7.290	7.285	0.005	94	421449	80.0	82.7	
249 Indene	115	7.306	7.306	0.000	96	522517	80.0	82.1	
102 4-Methylphenol	108	7.418	7.418	0.000	97	281498	80.0	84.4	
101 N-Nitrosodi-n-propylamine	70	7.434	7.434	0.000	89	219525	80.0	85.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
104 Acetophenone	105	7.450	7.445	0.005	96	403975	80.0	84.0	
106 Hexachloroethane	117	7.616	7.616	0.000	96	126833	80.0	81.2	
107 Nitrobenzene	77	7.659	7.658	0.001	88	306523	80.0	81.9	
110 Isophorone	82	7.931	7.931	0.000	99	559893	80.0	83.7	
111 2-Nitrophenol	139	8.043	8.043	0.000	96	140614	80.0	79.7	
112 2,4-Dimethylphenol	107	8.054	8.054	0.000	96	295139	80.0	83.0	
119 Benzoic acid	105	8.134	8.113	0.021	89	166952	80.0	81.9	M
115 Bis(2-chloroethoxy)methane	93	8.166	8.161	0.005	99	350620	80.0	81.9	
117 2,4-Dichlorophenol	162	8.321	8.321	0.000	95	237348	80.0	84.7	
120 1,2,4-Trichlorobenzene	180	8.439	8.438	0.001	94	262545	80.0	81.2	
121 Naphthalene	128	8.535	8.535	0.000	98	818375	80.0	79.6	
123 4-Chloroaniline	127	8.572	8.567	0.005	96	364216	80.0	83.2	
124 2,6-Dichlorophenol	162	8.594	8.588	0.006	97	233148	80.0	83.0	
126 Hexachlorobutadiene	225	8.679	8.684	-0.005	96	159056	80.0	80.5	
127 Caprolactam	113	8.952	8.946	0.006	79	88618	80.0	82.3	M
131 4-Chloro-3-methylphenol	107	9.122	9.122	0.000	93	240842	80.0	84.6	
133 2-Methylnaphthalene	142	9.358	9.357	0.001	92	538808	80.0	81.9	
252 1-Methylnaphthalene	142	9.475	9.475	0.000	97	504666	80.0	81.4	
136 Hexachlorocyclopentadiene	237	9.555	9.555	0.000	95	198442	80.0	79.8	
138 1,2,4,5-Tetrachlorobenzene	216	9.561	9.560	0.001	98	256999	80.0	80.3	
139 2,4,6-Trichlorophenol	196	9.678	9.678	0.000	96	167096	80.0	80.7	
140 2,4,5-Trichlorophenol	196	9.726	9.726	0.000	95	174055	80.0	80.9	
144 1,1'-Biphenyl	154	9.897	9.897	0.000	96	635925	80.0	79.7	
143 2-Chloronaphthalene	162	9.940	9.934	0.006	97	510321	80.0	79.5	
145 2-Nitroaniline	65	10.031	10.025	0.006	83	159326	80.0	80.8	
147 Dimethyl phthalate	163	10.218	10.217	0.001	99	573784	80.0	81.5	
50 1,3-Dinitrobenzene	168	10.255	10.255	0.000	85	87758	80.0	81.5	
148 2,6-Dinitrotoluene	165	10.287	10.287	0.000	95	131183	80.0	80.0	
149 Acenaphthylene	152	10.415	10.410	0.005	98	757016	80.0	80.7	
150 3-Nitroaniline	138	10.485	10.485	0.000	93	142190	80.0	79.1	
152 2,4-Dinitrophenol	184	10.597	10.597	0.000	84	132527	160.0	156.1	
151 Acenaphthene	153	10.602	10.602	0.000	94	505653	80.0	80.9	
153 4-Nitrophenol	109	10.640	10.639	0.001	94	156269	160.0	158.2	
154 2,4-Dinitrotoluene	165	10.736	10.736	0.000	94	173961	80.0	80.4	
155 Dibenzofuran	168	10.784	10.784	0.000	96	719065	80.0	80.0	
158 2,3,4,6-Tetrachlorophenol	232	10.907	10.907	0.000	97	146790	80.0	80.3	
160 Diethyl phthalate	149	10.976	10.976	0.000	98	555840	80.0	81.3	
257 Hexadecane	57	10.987	10.987	0.000	97	421053	80.0	81.4	
162 4-Chlorophenyl phenyl ethe	204	11.126	11.126	0.000	90	295542	80.0	81.1	
164 4-Nitroaniline	138	11.142	11.136	0.006	86	149743	80.0	78.7	
161 Fluorene	166	11.147	11.147	0.000	94	596352	80.0	80.7	
166 4,6-Dinitro-2-methylphenol	198	11.174	11.174	0.000	87	196819	160.0	161.0	
169 Diphenylamine	169	11.238	11.238	0.000	97	433704	68.1	71.0	
167 N-Nitrosodiphenylamine	169	11.238	11.238	0.000	98	433704	80.0	83.4	
170 Azobenzene	77	11.286	11.286	0.000	98	624356	80.0	82.1	
168 1,2-Diphenylhydrazine	77	11.286	11.286	0.000	99	624356	80.0	82.1	
176 4-Bromophenyl phenyl ether	248	11.623	11.622	0.001	94	180112	80.0	83.5	
177 Hexachlorobenzene	284	11.719	11.719	0.000	97	211304	80.0	81.8	
180 Atrazine	200	11.746	11.740	0.006	93	155214	80.0	82.7	
181 Pentachlorophenol	266	11.895	11.895	0.000	94	252286	160.0	160.1	
263 n-Octadecane	57	11.900	11.900	0.000	98	418954	80.0	83.8	
185 Phenanthrene	178	12.103	12.103	0.000	97	807443	80.0	81.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
188 Anthracene	178	12.152	12.151	0.001	97	844382	80.0	82.4	
189 Carbazole	167	12.285	12.285	0.000	96	766649	80.0	81.9	
192 Di-n-butyl phthalate	149	12.552	12.547	0.005	100	904510	80.0	83.8	
197 Fluoranthene	202	13.204	13.198	0.006	98	883983	80.0	82.0	
198 Benzidine	184	13.279	13.279	0.000	99	245438	80.0	80.7	
199 Pyrene	202	13.418	13.417	0.001	96	912046	80.0	82.8	
205 Butyl benzyl phthalate	149	13.898	13.898	0.000	99	401362	80.0	81.5	
210 Bis(2-ethylhexyl) phthalat	149	14.390	14.390	0.000	97	549082	80.0	86.4	
208 3,3'-Dichlorobenzidine	252	14.438	14.432	0.006	99	324986	80.0	79.5	
209 Benzo[a]anthracene	228	14.507	14.507	0.000	98	924123	80.0	81.9	
211 Chrysene	228	14.545	14.545	0.000	97	874159	80.0	80.0	
212 Di-n-octyl phthalate	149	15.020	15.020	0.000	100	928817	80.0	80.5	
213 Benzo[b]fluoranthene	252	15.688	15.683	0.005	97	993120	80.0	86.0	
214 Benzo[k]fluoranthene	252	15.720	15.715	0.005	98	958645	80.0	80.9	
217 Benzo[a]pyrene	252	16.121	16.121	0.000	97	904128	80.0	83.6	
220 Dibenz(a,h)anthracene	278	17.900	17.889	0.011	90	961614	80.0	78.1	
219 Indeno[1,2,3-cd]pyrene	276	17.905	17.894	0.011	97	1118882	80.0	77.5	
221 Benzo[g,h,i]perylene	276	18.429	18.423	0.006	97	898007	80.0	77.7	
S 78 3-Methylphenol	1				0			84.4	
S 222 Total Cresols	1				0			168.9	
S 77 3 & 4 Methylphenol	108				0			84.4	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MB_LIST1_WRK_00301

Amount Added: 1.00

Units: mL

MB_INTSTD_STK_00019

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973U\\20160314-51236.b\\U25629.D

Injection Date: 15-Mar-2016 12:57:30

Instrument ID: HP5973U

Operator ID: MKP

Lims ID: IC - List1 80ppm

Worklist Smp#: 6

Client ID:

Injection Vol: 1.0 ul

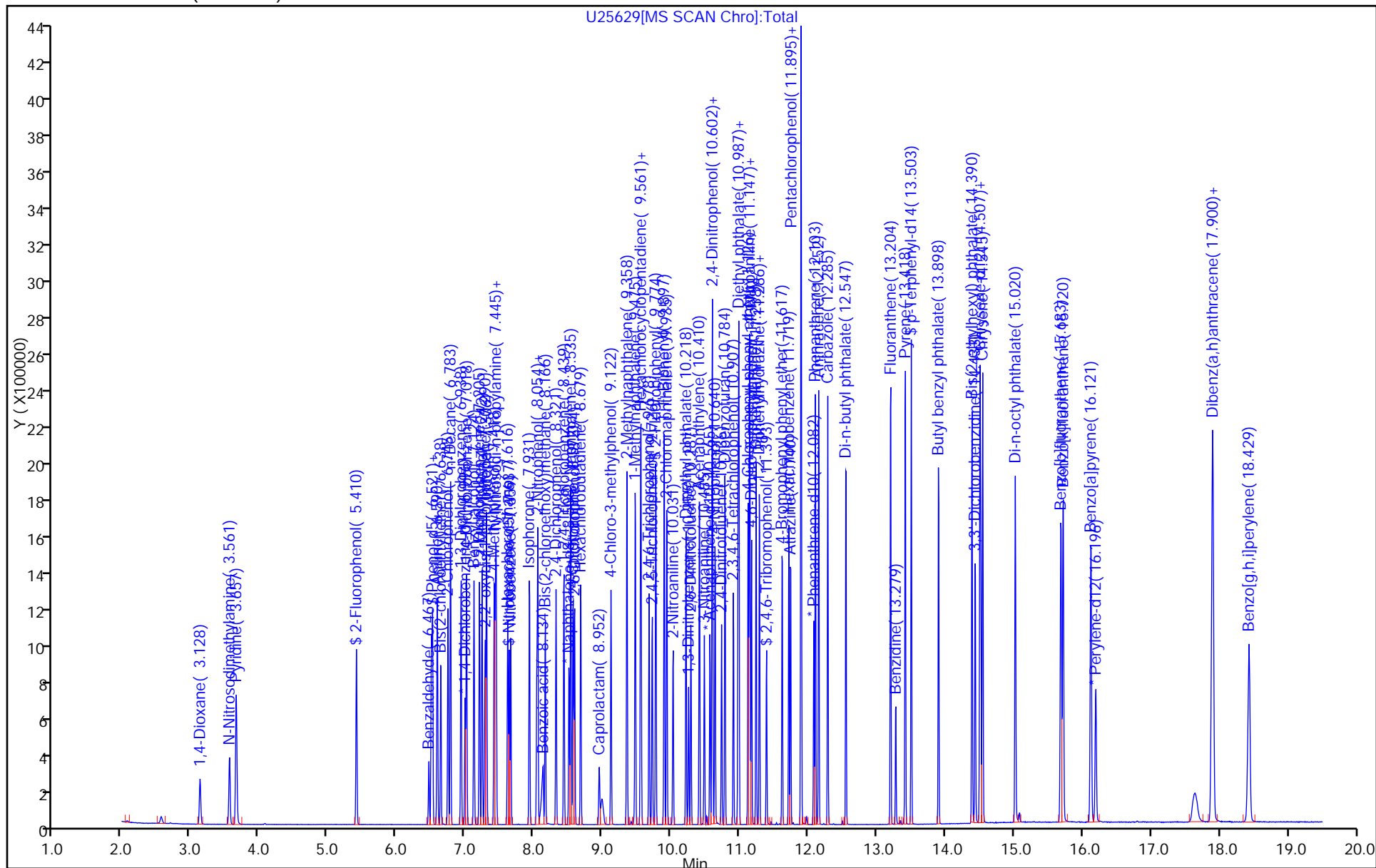
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: U-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U25629.D

Injection Date: 15-Mar-2016 12:57:30

Instrument ID: HP5973U

Lims ID: IC - List1 80ppm

Client ID:

Operator ID: MKP

ALS Bottle#:

4

Worklist Smp#: 6

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: U-8270

Limit Group: MB - 8270D ICAL

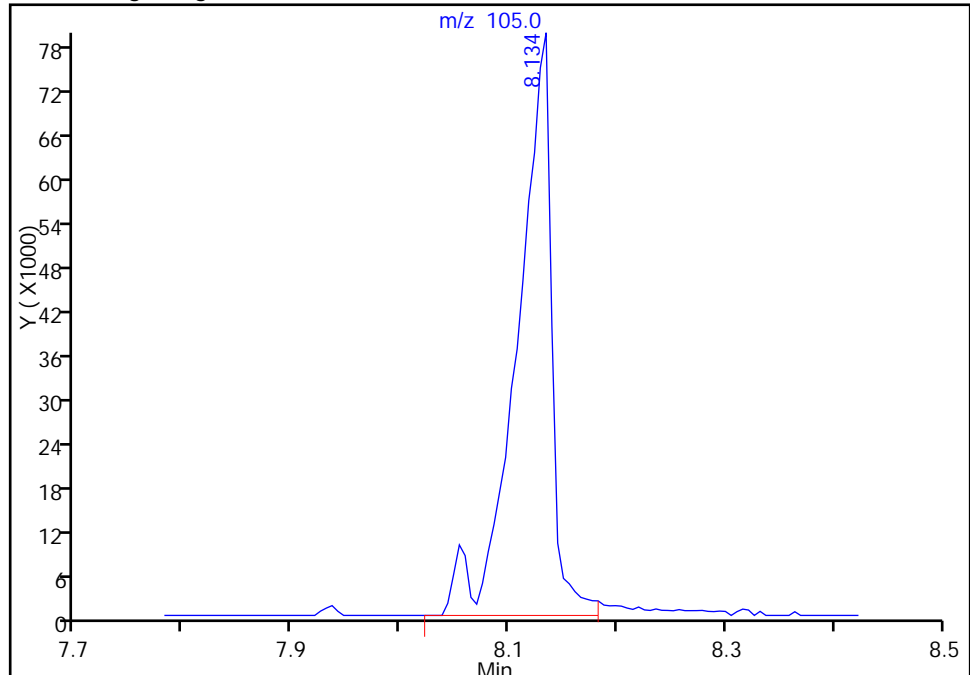
Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

119 Benzoic acid, CAS: 65-85-0

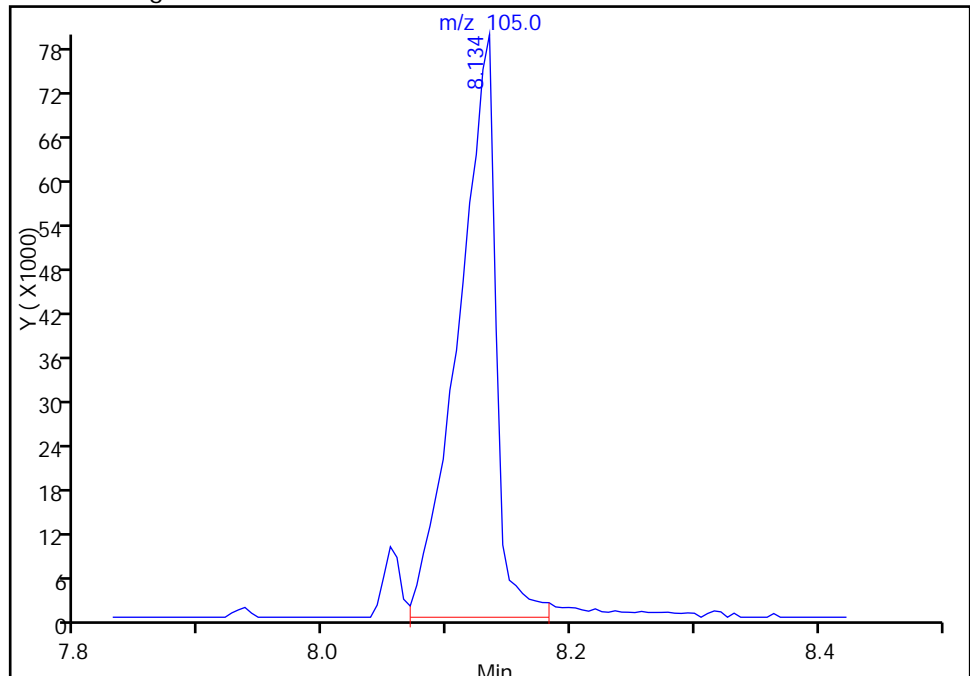
RT: 8.13
Area: 175720
Amount: 82.269688
Amount Units: ng/uL

Processing Integration Results



RT: 8.13
Area: 166952
Amount: 81.864166
Amount Units: ng/uL

Manual Integration Results



Reviewer: pagem, 16-Mar-2016 10:49:43

Audit Action: Split an Integrated Peak

Audit Reason: Peak Tail

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U25629.D

Injection Date: 15-Mar-2016 12:57:30

Instrument ID: HP5973U

Lims ID: IC - List1 80ppm

Client ID:

Operator ID: MKP

ALS Bottle#:

4

Worklist Smp#: 6

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: U-8270

Limit Group: MB - 8270D ICAL

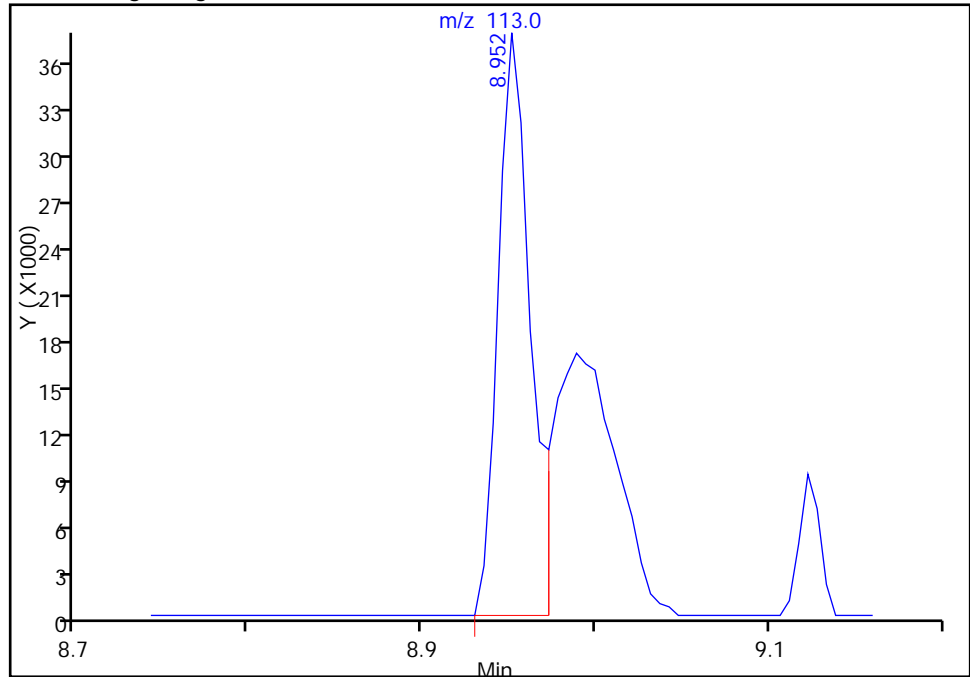
Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

127 Caprolactam, CAS: 105-60-2

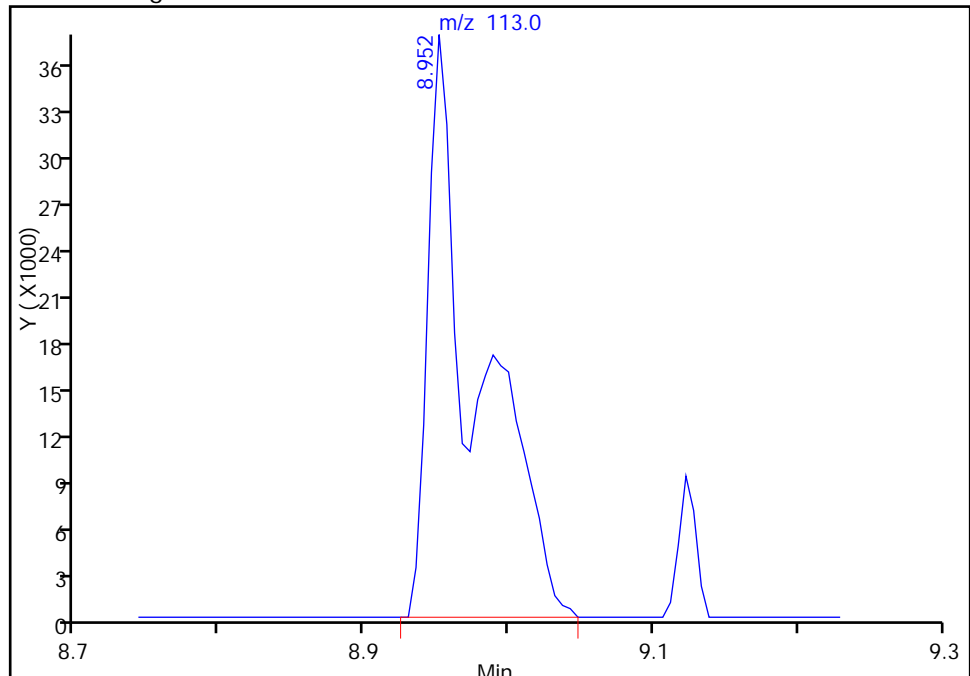
RT: 8.95
Area: 49290
Amount: 67.328667
Amount Units: ng/uL

Processing Integration Results



RT: 8.95
Area: 88618
Amount: 82.327472
Amount Units: ng/uL

Manual Integration Results



Reviewer: pagem, 15-Mar-2016 14:50:09

Audit Action: Manually Integrated

Audit Reason: Split Peak

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U25630.D
 Lims ID: IC - List1 100ppm
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 15-Mar-2016 13:24:30 ALS Bottle#: 5 Worklist Smp#: 7
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 480-0051236-007
 Misc. Info.: IC - LIST1 100PPM
 Operator ID: MKP Instrument ID: HP5973U
 Sublist: chrom-U-8270*sub56
 Method: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U-8270.m
 Limit Group: MB - 8270D ICAL
 Last Update: 17-Mar-2016 13:23:21 Calib Date: 15-Mar-2016 21:31:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U25648.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK030

First Level Reviewer: pagem

Date: 15-Mar-2016 14:50:28

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.996	6.996	0.000	97	100355	40.0	40.0	
* 2 Naphthalene-d8	136	8.513	8.508	0.005	99	389850	40.0	40.0	
* 3 Acenaphthene-d10	164	10.565	10.565	0.000	98	207608	40.0	40.0	
* 4 Phenanthrene-d10	188	12.082	12.082	0.000	98	339183	40.0	40.0	
* 5 Chrysene-d12	240	14.518	14.518	0.000	97	381003	40.0	40.0	
* 6 Perylene-d12	264	16.195	16.195	0.000	97	392133	40.0	40.0	
\$ 9 2-Fluorophenol	112	5.409	5.409	0.000	96	355943	100.0	102.6	
\$ 10 Phenol-d5	99	6.505	6.499	0.005	87	434450	100.0	102.8	
\$ 11 Nitrobenzene-d5	82	7.637	7.637	0.000	96	415647	100.0	107.2	
\$ 12 2-Fluorobiphenyl	172	9.779	9.774	0.005	100	704479	100.0	101.9	
\$ 13 2,4,6-Tribromophenol	330	11.393	11.393	0.000	92	132661	100.0	101.1	
\$ 14 p-Terphenyl-d14	244	13.503	13.503	0.000	99	854581	100.0	102.0	
80 1,4-Dioxane	88	3.123	3.128	-0.005	98	162618	100.0	99.1	
81 N-Nitrosodimethylamine	42	3.556	3.556	0.000	91	216540	100.0	99.0	
82 Pyridine	52	3.652	3.657	-0.005	92	311851	100.0	101.4	
88 Benzaldehyde	77	6.467	6.467	0.000	93	86648	100.0	101.2	
89 Phenol	94	6.521	6.515	0.006	98	451528	100.0	101.7	
90 Aniline	93	6.590	6.590	0.000	97	555168	100.0	102.5	
91 Bis(2-chloroethyl)ether	93	6.643	6.638	0.005	98	363837	100.0	99.8	
93 2-Chlorophenol	128	6.745	6.745	0.000	97	366432	100.0	103.2	
258 n-Decane	57	6.782	6.782	0.000	98	457302	100.0	101.3	
94 1,3-Dichlorobenzene	146	6.937	6.937	0.000	96	388405	100.0	99.0	
95 1,4-Dichlorobenzene	146	7.017	7.017	0.000	92	389881	100.0	99.1	
96 Benzyl alcohol	108	7.124	7.124	0.000	92	235842	100.0	104.2	
97 1,2-Dichlorobenzene	146	7.204	7.204	0.000	95	369801	100.0	100.2	
98 2-Methylphenol	108	7.242	7.242	0.000	97	326263	100.0	103.3	
99 2,2'-oxybis[1-chloropropan	45	7.290	7.285	0.005	94	511189	100.0	100.8	
249 Indene	115	7.306	7.306	0.000	96	633755	100.0	100.1	
102 4-Methylphenol	108	7.423	7.418	0.005	96	343063	100.0	103.4	
101 N-Nitrosodi-n-propylamine	70	7.434	7.434	0.000	91	267271	100.0	104.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
104 Acetophenone	105	7.450	7.445	0.005	96	484233	100.0	101.2	
106 Hexachloroethane	117	7.616	7.616	0.000	97	159782	100.0	102.9	
107 Nitrobenzene	77	7.658	7.658	0.000	88	374205	100.0	104.5	
110 Isophorone	82	7.936	7.931	0.005	99	665389	100.0	104.0	
111 2-Nitrophenol	139	8.043	8.043	0.000	96	175540	100.0	103.2	
112 2,4-Dimethylphenol	107	8.054	8.054	0.000	96	351266	100.0	103.2	
119 Benzoic acid	105	8.139	8.113	0.026	88	210166	100.0	106.3	M
115 Bis(2-chloroethoxy)methane	93	8.166	8.161	0.005	99	417693	100.0	102.0	
117 2,4-Dichlorophenol	162	8.321	8.321	0.000	95	284144	100.0	106.0	
120 1,2,4-Trichlorobenzene	180	8.438	8.438	0.000	94	314649	100.0	101.7	
121 Naphthalene	128	8.535	8.535	0.000	98	983210	100.0	100.0	
123 4-Chloroaniline	127	8.572	8.567	0.005	96	434050	100.0	103.6	
124 2,6-Dichlorophenol	162	8.593	8.588	0.005	97	279899	100.0	104.1	
126 Hexachlorobutadiene	225	8.684	8.684	0.000	96	192750	100.0	101.9	
127 Caprolactam	113	8.957	8.946	0.011	78	105318	100.0	101.7	M
131 4-Chloro-3-methylphenol	107	9.122	9.122	0.000	93	288172	100.0	105.7	
133 2-Methylnaphthalene	142	9.357	9.357	0.000	92	642051	100.0	102.0	
252 1-Methylnaphthalene	142	9.480	9.475	0.005	97	602057	100.0	101.5	
136 Hexachlorocyclopentadiene	237	9.555	9.555	0.000	97	237984	100.0	102.2	
138 1,2,4,5-Tetrachlorobenzene	216	9.560	9.560	0.000	98	310412	100.0	104.0	
139 2,4,6-Trichlorophenol	196	9.678	9.678	0.000	96	197776	100.0	102.0	
140 2,4,5-Trichlorophenol	196	9.726	9.726	0.000	95	206026	100.0	102.3	
144 1,1'-Biphenyl	154	9.902	9.897	0.005	96	757932	100.0	101.9	
143 2-Chloronaphthalene	162	9.940	9.934	0.006	97	606774	100.0	101.4	
145 2-Nitroaniline	65	10.030	10.025	0.005	83	190002	100.0	102.7	
147 Dimethyl phthalate	163	10.217	10.217	0.000	99	671081	100.0	102.2	
50 1,3-Dinitrobenzene	168	10.255	10.255	0.000	85	107302	100.0	103.2	
148 2,6-Dinitrotoluene	165	10.292	10.287	0.005	95	155572	100.0	101.1	
149 Acenaphthylene	152	10.415	10.410	0.005	98	891226	100.0	102.0	
150 3-Nitroaniline	138	10.484	10.485	-0.001	93	171985	100.0	101.9	
152 2,4-Dinitrophenol	184	10.597	10.597	0.000	84	167806	200.0	208.7	
151 Acenaphthene	153	10.602	10.602	0.000	93	594542	100.0	102.0	
153 4-Nitrophenol	109	10.645	10.639	0.006	93	187635	200.0	202.5	
154 2,4-Dinitrotoluene	165	10.736	10.736	0.000	93	204200	100.0	100.6	
155 Dibenzofuran	168	10.789	10.784	0.005	96	845662	100.0	100.9	
158 2,3,4,6-Tetrachlorophenol	232	10.912	10.907	0.005	97	174735	100.0	101.9	
160 Diethyl phthalate	149	10.976	10.976	0.000	98	652734	100.0	102.4	
257 Hexadecane	57	10.987	10.987	0.000	97	499215	100.0	103.5	
162 4-Chlorophenyl phenyl ethe	204	11.126	11.126	0.000	92	343481	100.0	101.1	
164 4-Nitroaniline	138	11.142	11.136	0.006	86	178613	100.0	100.1	
161 Fluorene	166	11.147	11.147	0.000	94	699243	100.0	101.5	
166 4,6-Dinitro-2-methylphenol	198	11.174	11.174	0.000	87	240395	200.0	204.8	
169 Diphenylamine	169	11.238	11.238	0.000	97	506562	85.1	87.3	
167 N-Nitrosodiphenylamine	169	11.238	11.238	0.000	98	506562	100.0	102.6	
170 Azobenzene	77	11.286	11.286	0.000	98	729061	100.0	100.9	
168 1,2-Diphenylhydrazine	77	11.286	11.286	0.000	99	729061	100.0	100.9	
176 4-Bromophenyl phenyl ether	248	11.622	11.622	0.000	95	213091	100.0	104.1	
177 Hexachlorobenzene	284	11.719	11.719	0.000	97	250382	100.0	102.1	
180 Atrazine	200	11.745	11.740	0.005	93	180292	100.0	103.0	
181 Pentachlorophenol	266	11.895	11.895	0.000	94	308466	200.0	204.4	
263 n-Octadecane	57	11.900	11.900	0.000	98	492605	100.0	103.8	
185 Phenanthrene	178	12.103	12.103	0.000	97	934652	100.0	98.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
188 Anthracene	178	12.157	12.151	0.006	97	984224	100.0	101.1	
189 Carbazole	167	12.285	12.285	0.000	97	890964	100.0	100.2	
192 Di-n-butyl phthalate	149	12.552	12.547	0.005	100	1056449	100.0	103.1	
197 Fluoranthene	202	13.204	13.198	0.006	99	1028575	100.0	100.4	
198 Benzidine	184	13.278	13.279	-0.001	99	297312	100.0	100.5	
199 Pyrene	202	13.417	13.417	0.000	96	1063283	100.0	100.0	
205 Butyl benzyl phthalate	149	13.898	13.898	0.000	99	478862	100.0	100.3	
210 Bis(2-ethylhexyl) phthalat	149	14.390	14.390	0.000	97	660131	100.0	107.6	
208 3,3'-Dichlorobenzidine	252	14.438	14.432	0.006	99	402344	100.0	101.5	
209 Benzo[a]anthracene	228	14.507	14.507	0.000	98	1094103	100.0	100.5	
211 Chrysene	228	14.545	14.545	0.000	97	1049249	100.0	99.5	
212 Di-n-octyl phthalate	149	15.020	15.020	0.000	100	1123731	100.0	100.4	
213 Benzo[b]fluoranthene	252	15.688	15.683	0.005	97	1183439	100.0	103.1	
214 Benzo[k]fluoranthene	252	15.720	15.715	0.005	98	1191723	100.0	101.2	
217 Benzo[a]pyrene	252	16.126	16.121	0.005	97	1131144	100.0	105.2	
220 Dibenz(a,h)anthracene	278	17.900	17.889	0.011	92	1245523	100.0	101.1	
219 Indeno[1,2,3-cd]pyrene	276	17.910	17.894	0.016	98	1457892	100.0	101.0	
221 Benzo[g,h,i]perylene	276	18.434	18.423	0.011	96	1169140	100.0	101.1	
S 78 3-Methylphenol	1				0			103.4	
S 222 Total Cresols	1				0			206.6	
S 77 3 & 4 Methylphenol	108				0			103.4	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MB_LIST1_WRK_00302

Amount Added: 1.00

Units: mL

MB_INTSTD_STK_00019

Amount Added: 20.00

Units: uL

Run Reagent

Report Date: 17-Mar-2016 13:23:23

Chrom Revision: 2.2 04-Mar-2016 14:36:24

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973U\\20160314-51236.b\\U25630.D

Injection Date: 15-Mar-2016 13:24:30

Instrument ID: HP5973U

Operator ID: MKP

Lims ID: IC - List1 100ppm

Worklist Smp#: 7

Client ID:

Injection Vol: 1.0 ul

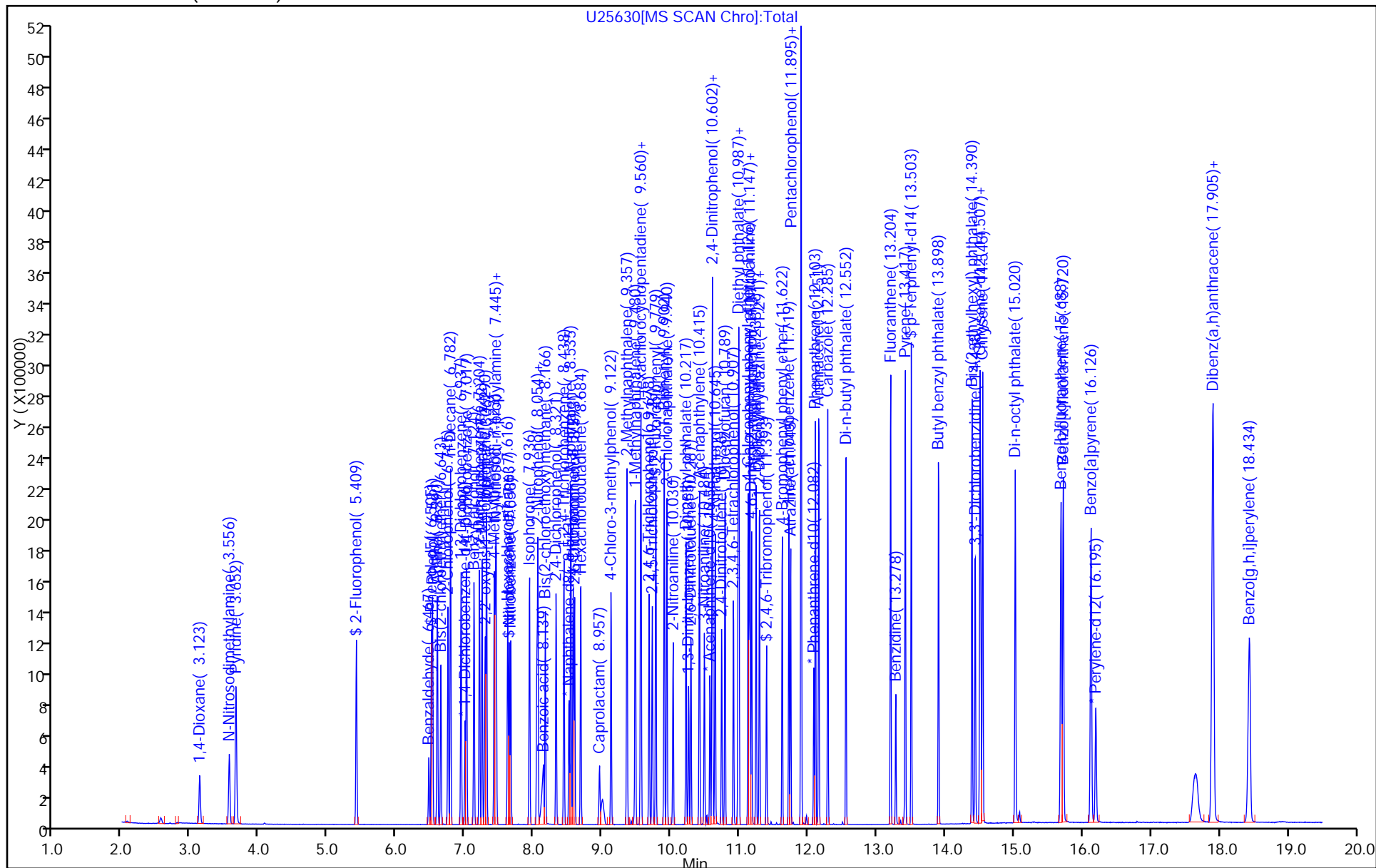
Dil. Factor: 1.0000

ALS Bottle#: 5

Method: U-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U25630.D

Injection Date: 15-Mar-2016 13:24:30

Instrument ID: HP5973U

Lims ID: IC - List1 100ppm

Client ID:

Operator ID: MKP

ALS Bottle#:

5

Worklist Smp#: 7

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: U-8270

Limit Group: MB - 8270D ICAL

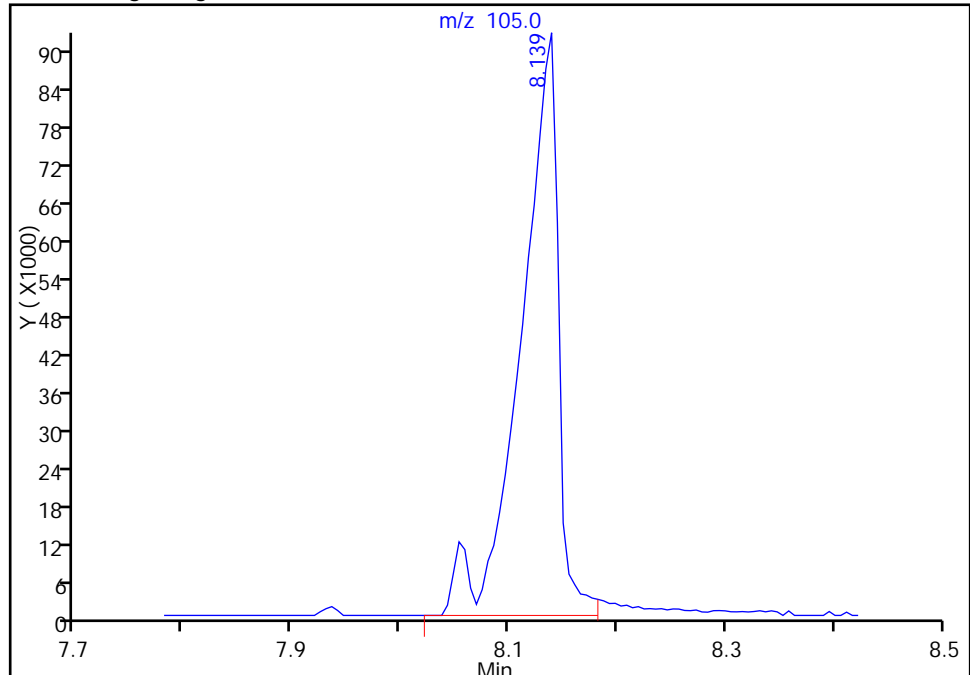
Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

119 Benzoic acid, CAS: 65-85-0

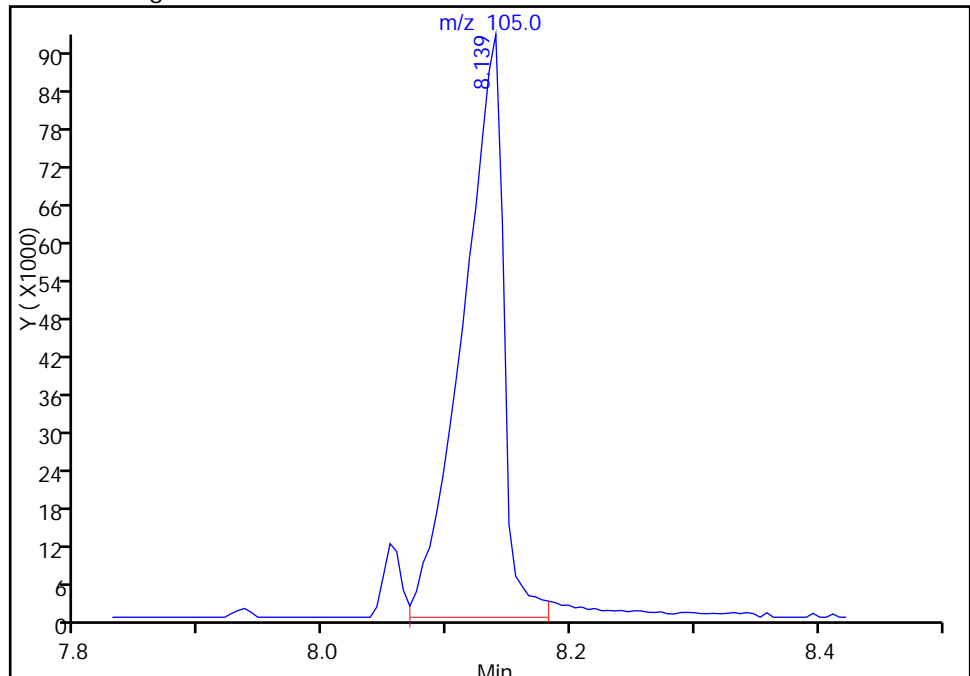
RT: 8.14
Area: 221284
Amount: 107.9634
Amount Units: ng/uL

Processing Integration Results



RT: 8.14
Area: 210166
Amount: 106.3051
Amount Units: ng/uL

Manual Integration Results



Reviewer: pagem, 16-Mar-2016 10:50:33

Audit Action: Split an Integrated Peak

Audit Reason: Peak Tail

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U25630.D

Injection Date: 15-Mar-2016 13:24:30

Instrument ID: HP5973U

Lims ID: IC - List1 100ppm

Client ID:

Operator ID: MKP

ALS Bottle#:

5

Worklist Smp#: 7

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: U-8270

Limit Group: MB - 8270D ICAL

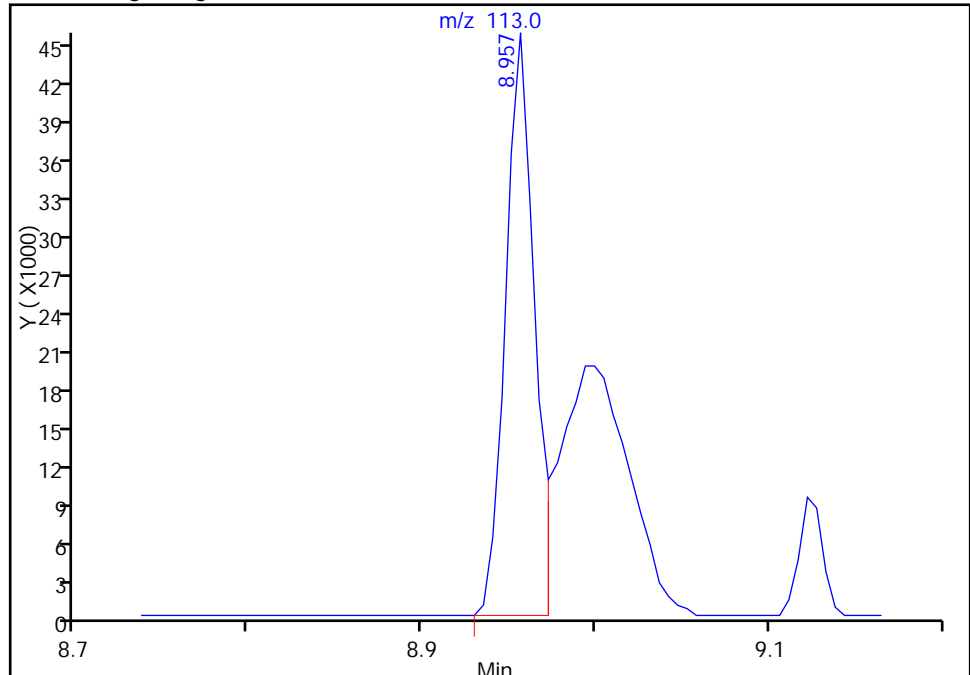
Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

127 Caprolactam, CAS: 105-60-2

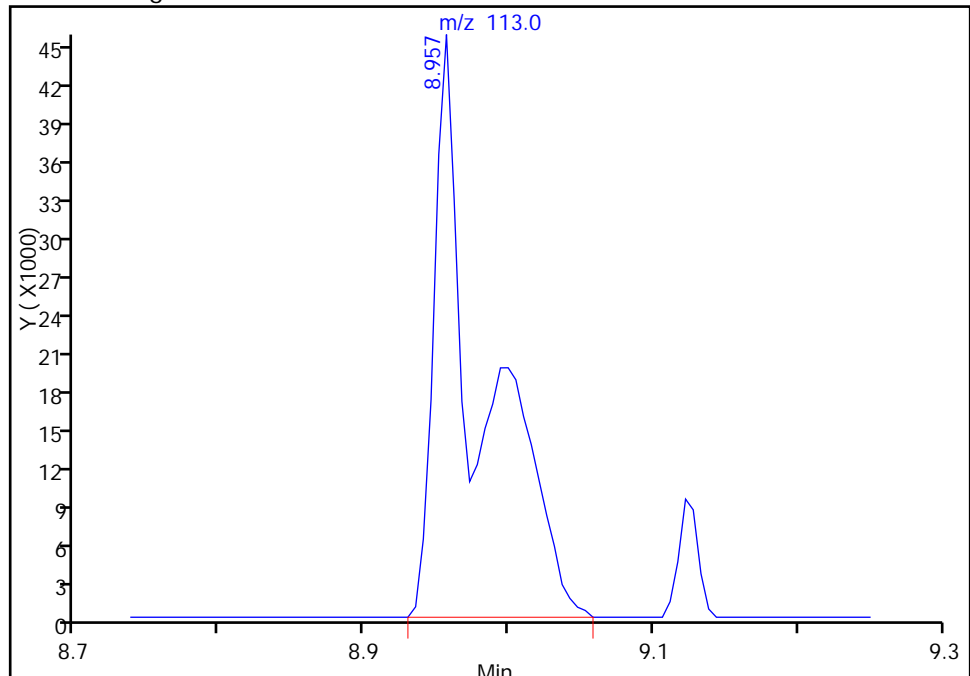
RT: 8.96
Area: 53659
Amount: 68.873849
Amount Units: ng/uL

Processing Integration Results



RT: 8.96
Area: 105318
Amount: 101.7383
Amount Units: ng/uL

Manual Integration Results



Reviewer: pagem, 15-Mar-2016 14:50:28

Audit Action: Manually Integrated

Audit Reason: Split Peak

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U25631.D
 Lims ID: IC - List1 120ppm
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 15-Mar-2016 13:51:30 ALS Bottle#: 6 Worklist Smp#: 8
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 480-0051236-008
 Misc. Info.: IC - LIST1 120PPM
 Operator ID: MKP Instrument ID: HP5973U
 Sublist: chrom-U-8270*sub56
 Method: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U-8270.m
 Limit Group: MB - 8270D ICAL
 Last Update: 17-Mar-2016 13:23:26 Calib Date: 15-Mar-2016 21:31:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U25648.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK030

First Level Reviewer: pagem

Date: 15-Mar-2016 14:50:41

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.996	6.996	0.000	97	93289	40.0	40.0	
* 2 Naphthalene-d8	136	8.513	8.508	0.005	99	340432	40.0	40.0	
* 3 Acenaphthene-d10	164	10.565	10.565	0.000	99	177743	40.0	40.0	
* 4 Phenanthrene-d10	188	12.082	12.082	0.000	99	301019	40.0	40.0	
* 5 Chrysene-d12	240	14.518	14.518	0.000	97	357735	40.0	40.0	
* 6 Perylene-d12	264	16.196	16.195	0.001	97	389194	40.0	40.0	
\$ 9 2-Fluorophenol	112	5.410	5.409	0.001	96	401102	120.0	124.4	
\$ 10 Phenol-d5	99	6.505	6.499	0.006	87	463895	120.0	118.1	
\$ 11 Nitrobenzene-d5	82	7.637	7.637	0.000	96	398622	120.0	117.7	
\$ 12 2-Fluorobiphenyl	172	9.780	9.774	0.006	100	700135	120.0	118.2	
\$ 13 2,4,6-Tribromophenol	330	11.393	11.393	0.000	92	139167	120.0	119.1	
\$ 14 p-Terphenyl-d14	244	13.503	13.503	0.000	99	913667	120.0	116.1	
80 1,4-Dioxane	88	3.128	3.128	0.000	98	186847	120.0	122.5	
81 N-Nitrosodimethylamine	42	3.561	3.556	0.005	91	235569	120.0	115.9	
82 Pyridine	52	3.657	3.657	0.000	92	344870	120.0	120.7	
88 Benzaldehyde	77	6.467	6.467	0.000	94	95813	120.0	120.4	
89 Phenol	94	6.521	6.515	0.006	99	478186	120.0	115.8	
90 Aniline	93	6.590	6.590	0.000	97	589926	120.0	117.1	
91 Bis(2-chloroethyl)ether	93	6.644	6.638	0.006	98	392420	120.0	115.8	
93 2-Chlorophenol	128	6.745	6.745	0.000	97	396085	120.0	120.0	
258 n-Decane	57	6.783	6.782	0.001	98	518338	120.0	123.6	
94 1,3-Dichlorobenzene	146	6.937	6.937	0.000	97	433832	120.0	119.0	
95 1,4-Dichlorobenzene	146	7.018	7.017	0.001	92	432773	120.0	118.3	
96 Benzyl alcohol	108	7.124	7.124	0.000	93	244325	120.0	116.1	
97 1,2-Dichlorobenzene	146	7.205	7.204	0.001	95	403079	120.0	117.5	
98 2-Methylphenol	108	7.242	7.242	0.000	97	340660	120.0	116.0	
99 2,2'-oxybis[1-chloropropan	45	7.290	7.285	0.005	95	545940	120.0	115.8	
249 Indene	115	7.306	7.306	0.000	97	689547	120.0	117.2	
102 4-Methylphenol	108	7.424	7.418	0.006	96	352269	120.0	114.2	
101 N-Nitrosodi-n-propylamine	70	7.434	7.434	0.000	91	268042	120.0	113.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
104 Acetophenone	105	7.450	7.445	0.005	96	490883	120.0	110.4	
106 Hexachloroethane	117	7.616	7.616	0.000	97	174381	120.0	120.8	
107 Nitrobenzene	77	7.659	7.658	0.001	88	384774	120.0	123.1	
110 Isophorone	82	7.936	7.931	0.005	99	660310	120.0	118.1	
111 2-Nitrophenol	139	8.043	8.043	0.000	96	180737	120.0	121.4	
112 2,4-Dimethylphenol	107	8.054	8.054	0.000	95	358447	120.0	120.6	
119 Benzoic acid	105	8.134	8.113	0.021	88	207098	120.0	119.4	M
115 Bis(2-chloroethoxy)methane	93	8.166	8.161	0.005	99	421030	120.0	117.7	
117 2,4-Dichlorophenol	162	8.321	8.321	0.000	95	287791	120.0	122.9	
120 1,2,4-Trichlorobenzene	180	8.439	8.438	0.001	94	326036	120.0	120.7	
121 Naphthalene	128	8.535	8.535	0.000	98	1015618	120.0	118.2	
123 4-Chloroaniline	127	8.572	8.567	0.005	97	430467	120.0	117.6	
124 2,6-Dichlorophenol	162	8.594	8.588	0.006	98	283169	120.0	120.6	
126 Hexachlorobutadiene	225	8.684	8.684	0.000	96	200970	120.0	121.7	
127 Caprolactam	113	8.957	8.946	0.011	79	107269	120.0	118.3	M
131 4-Chloro-3-methylphenol	107	9.122	9.122	0.000	93	284964	120.0	119.7	
133 2-Methylnaphthalene	142	9.358	9.357	0.001	92	642492	120.0	116.9	
252 1-Methylnaphthalene	142	9.480	9.475	0.005	97	603480	120.0	116.5	
136 Hexachlorocyclopentadiene	237	9.555	9.555	0.000	96	240484	120.0	120.4	
138 1,2,4,5-Tetrachlorobenzene	216	9.561	9.560	0.001	97	309772	120.0	121.2	
139 2,4,6-Trichlorophenol	196	9.678	9.678	0.000	96	197458	120.0	118.7	
140 2,4,5-Trichlorophenol	196	9.726	9.726	0.000	95	204970	120.0	118.6	
144 1,1'-Biphenyl	154	9.897	9.897	0.000	96	747295	120.0	117.3	
143 2-Chloronaphthalene	162	9.940	9.934	0.006	97	607021	120.0	118.5	
145 2-Nitroaniline	65	10.031	10.025	0.006	83	190285	120.0	119.8	
147 Dimethyl phthalate	163	10.218	10.217	0.001	99	678006	120.0	120.6	
50 1,3-Dinitrobenzene	168	10.255	10.255	0.000	85	111482	120.0	122.2	
148 2,6-Dinitrotoluene	165	10.292	10.287	0.005	96	160836	120.0	121.6	
149 Acenaphthylene	152	10.415	10.410	0.005	98	895997	120.0	119.7	
150 3-Nitroaniline	138	10.485	10.485	0.000	93	177682	120.0	122.4	
152 2,4-Dinitrophenol	184	10.597	10.597	0.000	83	177594	240.0	255.9	
151 Acenaphthene	153	10.602	10.602	0.000	95	595320	120.0	119.3	
153 4-Nitrophenol	109	10.645	10.639	0.006	92	193898	240.0	243.6	
154 2,4-Dinitrotoluene	165	10.736	10.736	0.000	94	214239	120.0	122.6	
155 Dibenzofuran	168	10.789	10.784	0.005	96	847764	120.0	118.1	
158 2,3,4,6-Tetrachlorophenol	232	10.912	10.907	0.005	97	177478	120.0	120.5	
160 Diethyl phthalate	149	10.976	10.976	0.000	98	671296	120.0	123.0	
257 Hexadecane	57	10.987	10.987	0.000	97	495965	120.0	120.1	
162 4-Chlorophenyl phenyl ethe	204	11.126	11.126	0.000	90	351289	120.0	120.8	
164 4-Nitroaniline	138	11.142	11.136	0.006	86	191430	120.0	124.7	
161 Fluorene	166	11.147	11.147	0.000	94	717442	120.0	121.6	
166 4,6-Dinitro-2-methylphenol	198	11.174	11.174	0.000	87	259954	240.0	247.8	
169 Diphenylamine	169	11.238	11.238	0.000	96	515852	102.1	100.2	
167 N-Nitrosodiphenylamine	169	11.238	11.238	0.000	98	515852	120.0	117.7	
170 Azobenzene	77	11.286	11.286	0.000	98	747404	120.0	116.6	
168 1,2-Diphenylhydrazine	77	11.286	11.286	0.000	99	747404	120.0	116.6	
176 4-Bromophenyl phenyl ether	248	11.623	11.622	0.001	95	220480	120.0	121.3	
177 Hexachlorobenzene	284	11.719	11.719	0.000	97	260003	120.0	119.5	
180 Atrazine	200	11.746	11.740	0.006	92	192016	120.0	128.1	
181 Pentachlorophenol	266	11.895	11.895	0.000	95	326214	240.0	242.5	
263 n-Octadecane	57	11.900	11.900	0.000	98	489665	120.0	116.2	
185 Phenanthrene	178	12.103	12.103	0.000	97	994874	120.0	118.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
188 Anthracene	178	12.152	12.151	0.001	97	1036408	120.0	120.0	
189 Carbazole	167	12.285	12.285	0.000	97	960123	120.0	121.7	
192 Di-n-butyl phthalate	149	12.552	12.547	0.005	100	1131058	120.0	124.4	
197 Fluoranthene	202	13.204	13.198	0.006	99	1113836	120.0	122.6	
198 Benzidine	184	13.279	13.279	0.000	98	343897	120.0	123.2	
199 Pyrene	202	13.418	13.417	0.001	96	1153405	120.0	115.5	
205 Butyl benzyl phthalate	149	13.904	13.898	0.006	99	531197	120.0	118.3	
210 Bis(2-ethylhexyl) phthalat	149	14.390	14.390	0.000	97	736850	120.0	127.9	
208 3,3'-Dichlorobenzidine	252	14.438	14.432	0.006	99	455620	120.0	122.0	
209 Benzo[a]anthracene	228	14.507	14.507	0.000	98	1225544	120.0	119.8	
211 Chrysene	228	14.545	14.545	0.000	97	1178074	120.0	119.0	
212 Di-n-octyl phthalate	149	15.020	15.020	0.000	100	1274476	120.0	120.9	
213 Benzo[b]fluoranthene	252	15.688	15.683	0.005	97	1360236	120.0	119.4	
214 Benzo[k]fluoranthene	252	15.720	15.715	0.005	98	1389377	120.0	118.8	
217 Benzo[a]pyrene	252	16.126	16.121	0.005	97	1320666	120.0	123.8	
220 Dibenz(a,h)anthracene	278	17.905	17.889	0.016	91	1547294	120.0	126.1	
219 Indeno[1,2,3-cd]pyrene	276	17.910	17.894	0.016	97	1821560	120.0	126.7	
221 Benzo[g,h,i]perylene	276	18.439	18.423	0.016	98	1457613	120.0	126.6	
S 78 3-Methylphenol	1				0			114.2	
S 222 Total Cresols	1				0			230.2	
S 77 3 & 4 Methylphenol	108				0			114.2	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MB_LIST1_WRK_00303

Amount Added: 1.00

Units: mL

MB_INTSTD_STK_00019

Amount Added: 20.00

Units: uL

Run Reagent

Chrom Revision: 2.2 04-Mar-2016 14:36:24

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U25631.D

Instrument ID: HP5973U

Operator ID: MKP

Worklist Smp#: 8

Client ID:

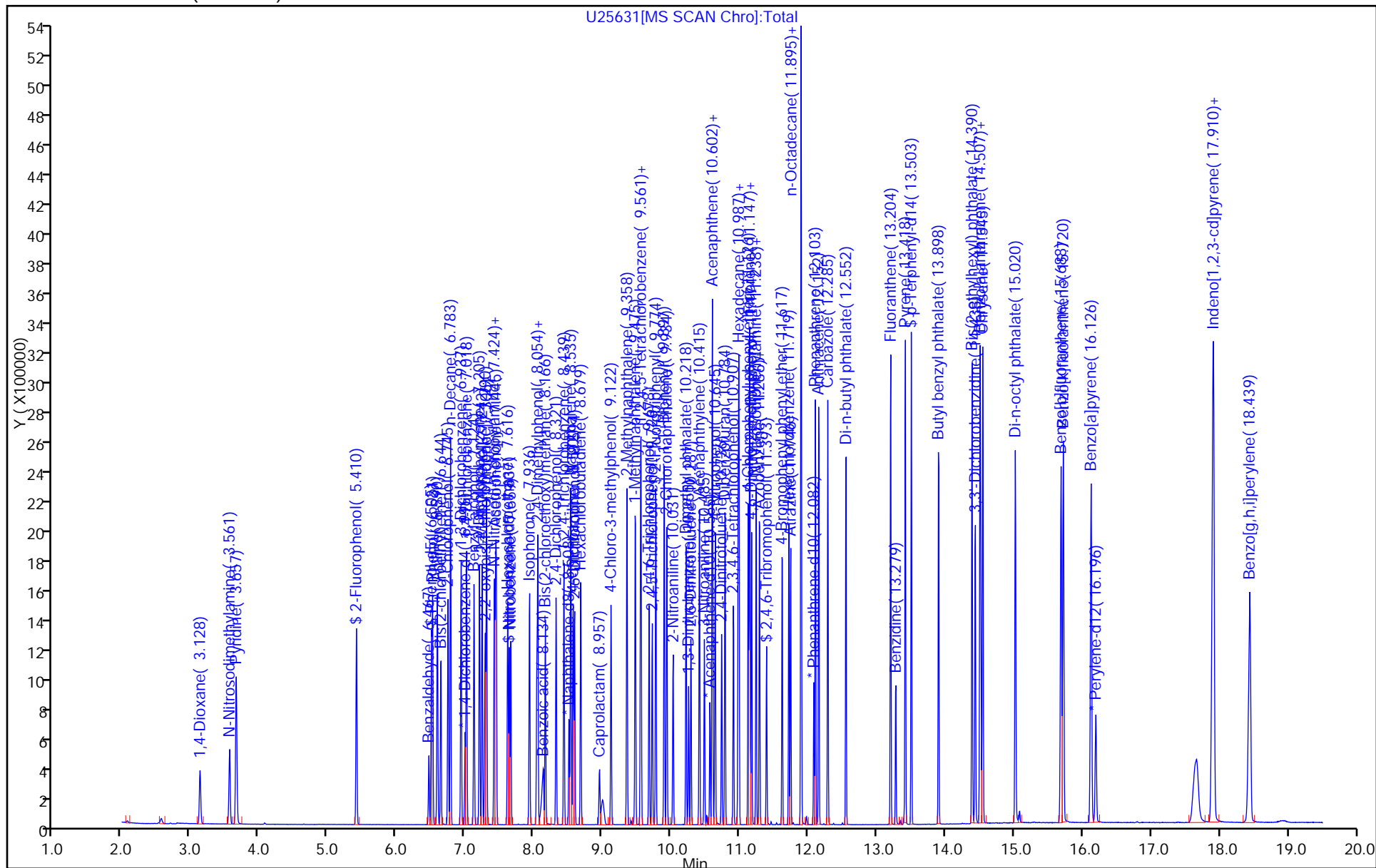
Dil. Factor: 1.0000

ALS Bottle#: 6

Method: U-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U25631.D

Injection Date: 15-Mar-2016 13:51:30

Instrument ID: HP5973U

Lims ID: IC - List1 120ppm

Client ID:

Operator ID: MKP

ALS Bottle#:

6

Worklist Smp#: 8

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: U-8270

Limit Group: MB - 8270D ICAL

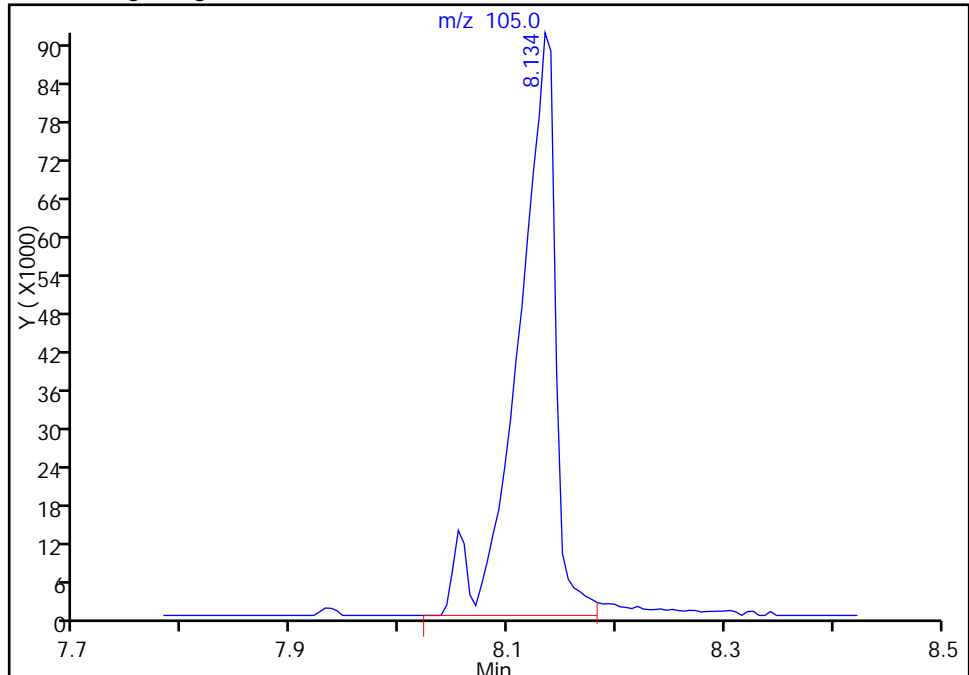
Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

119 Benzoic acid, CAS: 65-85-0

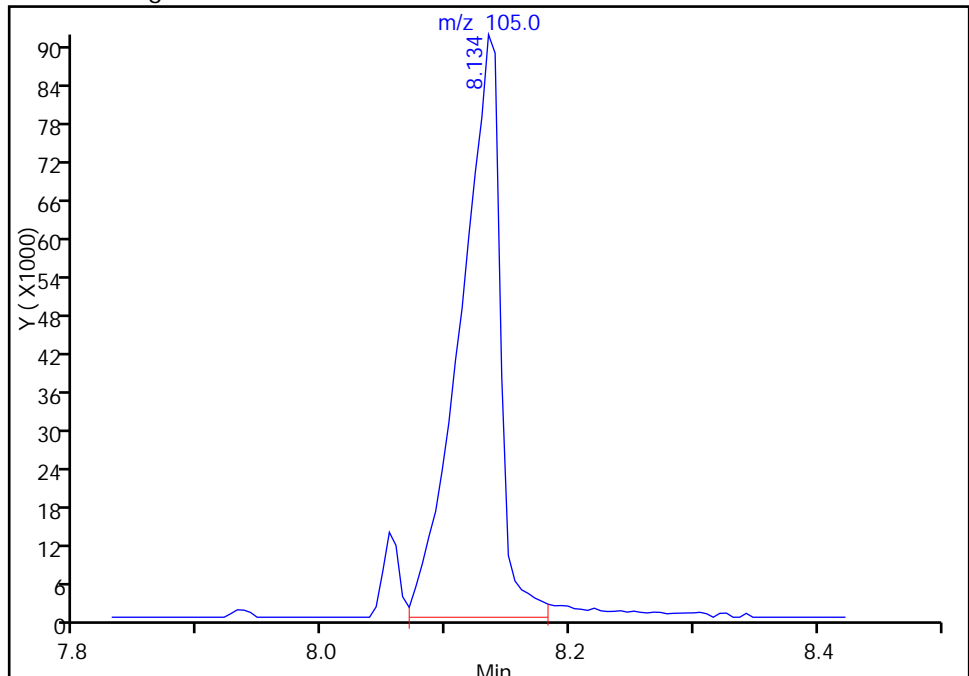
RT: 8.13
Area: 218909
Amount: 123.5620
Amount Units: ng/uL

Processing Integration Results



RT: 8.13
Area: 207098
Amount: 119.4021
Amount Units: ng/uL

Manual Integration Results



Reviewer: pagem, 16-Mar-2016 10:51:20

Audit Action: Split an Integrated Peak

Audit Reason: Peak Tail

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U25631.D

Injection Date: 15-Mar-2016 13:51:30

Instrument ID: HP5973U

Lims ID: IC - List1 120ppm

Client ID:

Operator ID: MKP

ALS Bottle#:

6

Worklist Smp#: 8

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: U-8270

Limit Group: MB - 8270D ICAL

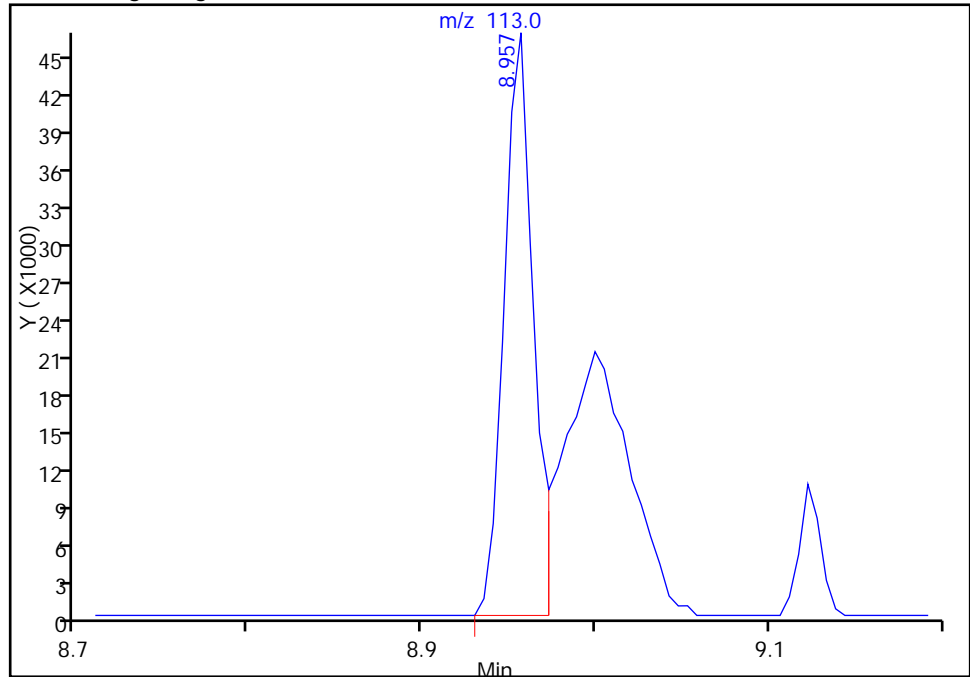
Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

127 Caprolactam, CAS: 105-60-2

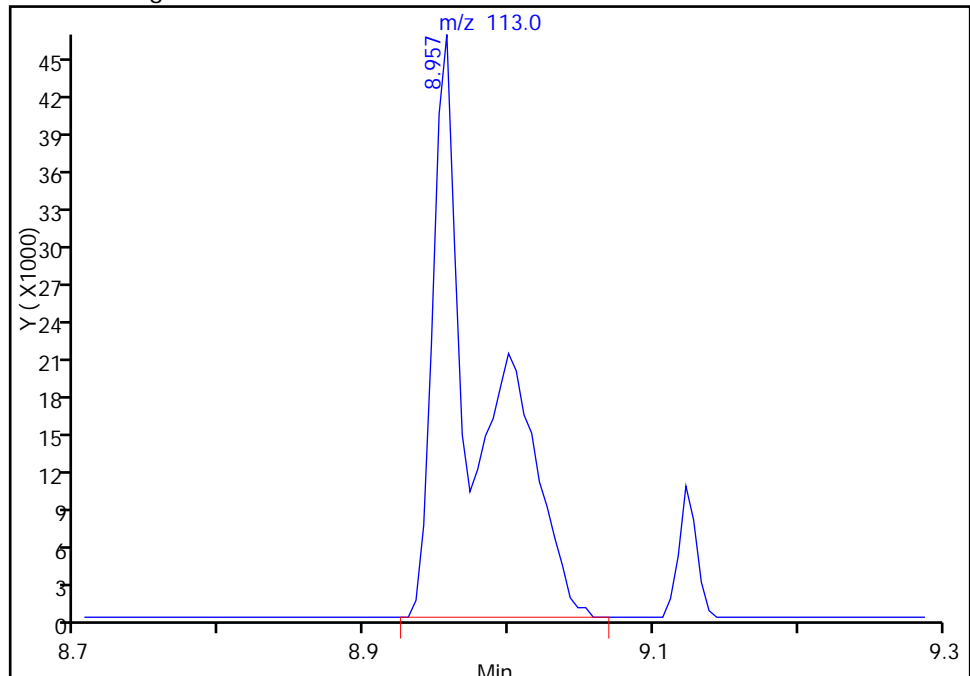
RT: 8.96
Area: 54591
Amount: 72.256517
Amount Units: ng/uL

Processing Integration Results



RT: 8.96
Area: 107269
Amount: 118.3283
Amount Units: ng/uL

Manual Integration Results



Reviewer: pagem, 15-Mar-2016 14:50:41

Audit Action: Manually Integrated

Audit Reason: Split Peak

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Buffalo

Job No.: 460-110715-1

SDG No.: _____

Lab Sample ID (1): CCVIS 480-293176/3

Instrument ID (1): HP5973U

GC Column (1): RXI-5Sil MS ID: 0.25 (mm)

Date Analyzed (1): 03/30/2016 05:44

ANALYTE	RT	RESOLUTION (%)
2-Fluorophenol (Surr)	5.40	100.0
Benzaldehyde	6.46	100.0
Phenol-d5 (Surr)	6.51	100.0
Phenol	6.52	100.0
Bis(2-chloroethyl)ether	6.63	100.0
2-Chlorophenol	6.74	100.0
2-Methylphenol	7.24	100.0
2,2'-oxybis[1-chloropropane]	7.27	100.0
4-Methylphenol	7.41	100.0
N-Nitrosodi-n-propylamine	7.42	100.0
Acetophenone	7.44	100.0
Hexachloroethane	7.60	100.0
Nitrobenzene-d5 (Surr)	7.63	100.0
Nitrobenzene	7.65	100.0
Isophorone	7.92	100.0
2-Nitrophenol	8.03	100.0
2,4-Dimethylphenol	8.05	100.0
Bis(2-chloroethoxy)methane	8.16	100.0
2,4-Dichlorophenol	8.32	100.0
Naphthalene	8.52	100.0
4-Chloroaniline	8.56	100.0
Hexachlorobutadiene	8.67	100.0
Caprolactam	8.94	100.0
4-Chloro-3-methylphenol	9.12	100.0
2-Methylnaphthalene	9.35	100.0
Hexachlorocyclopentadiene	9.54	100.0
1,2,4,5-Tetrachlorobenzene	9.55	100.0
2,4,6-Trichlorophenol	9.67	100.0
2,4,5-Trichlorophenol	9.72	100.0
2-Fluorobiphenyl	9.76	100.0
1,1'-Biphenyl	9.89	100.0
2-Chloronaphthalene	9.93	100.0
2-Nitroaniline	10.02	100.0
Dimethyl phthalate	10.21	100.0
2,6-Dinitrotoluene	10.28	100.0
Acenaphthylene	10.41	100.0
3-Nitroaniline	10.48	100.0
2,4-Dinitrophenol	10.59	100.0
Acenaphthene	10.59	100.0
4-Nitrophenol	10.65	100.0
2,4-Dinitrotoluene	10.73	100.0
Dibenzofuran	10.78	100.0
2,3,4,6-Tetrachlorophenol	10.90	100.0
Diethyl phthalate	10.97	100.0
4-Chlorophenyl phenyl ether	11.12	100.0

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 460-110715-1
 SDG No.: _____
 Lab Sample ID (1): CCVIS 480-293176/3 Instrument ID (1): HP5973U
 GC Column (1): RXI-5Sil MS ID: 0.25 (mm) Date Analyzed (1): 03/30/2016 05:44

ANALYTE	RT	RESOLUTION (%)
4-Nitroaniline	11.13	100.0
Fluorene	11.14	100.0
4,6-Dinitro-2-methylphenol	11.16	100.0
N-Nitrosodiphenylamine	11.23	100.0
2,4,6-Tribromophenol (Surr)	11.39	100.0
4-Bromophenyl phenyl ether	11.61	100.0
Hexachlorobenzene	11.71	100.0
Atrazine	11.74	100.0
Pentachlorophenol	11.89	100.0
Phenanthrene	12.10	100.0
Anthracene	12.15	100.0
Carbazole	12.28	100.0
Di-n-butyl phthalate	12.54	100.0
Fluoranthene	13.19	100.0
Pyrene	13.41	100.0
p-Terphenyl-d14 (Surr)	13.50	100.0
Butyl benzyl phthalate	13.89	100.0
Bis(2-ethylhexyl) phthalate	14.38	100.0
3,3'-Dichlorobenzidine	14.43	100.0
Benzo[a]anthracene	14.50	100.0
Chrysene	14.53	100.0
Di-n-octyl phthalate	15.00	100.0
Benzo[b]fluoranthene	15.67	28.60
Benzo[k]fluoranthene	15.70	100.0
Benzo[a]pyrene	16.11	100.0
Dibenz(a,h)anthracene	17.87	100.0
Indeno[1,2,3-cd]pyrene	17.88	100.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 460-110715-1

SDG No.: _____

Lab Sample ID: ICV 480-290883/9 Calibration Date: 03/15/2016 14:18

Instrument ID: HP5973U Calib Start Date: 03/15/2016 11:37

GC Column: RXI-5Sil MS ID: 0.25 (mm) Calib End Date: 03/15/2016 13:51

Lab File ID: U25632.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.6538	0.6157	0.0100	47100	50000	-5.8	30.0
N-Nitrosodimethylamine	Ave	0.8716	0.7351	0.0100	42200	50000	-15.7	30.0
Pyridine	Ave	1.225	1.198	0.0100	48900	50000	-2.2	30.0
Benzaldehyde	Ave	0.3413	0.7785	0.0100	114000	50000	128.1*	30.0
Phenol	Ave	1.770	1.789	0.8000	50500	50000	1.1	30.0
Aniline	Ave	2.160	2.211	0.0100	51200	50000	2.4	30.0
Bis(2-chloroethyl)ether	Ave	1.453	1.440	0.7000	49500	50000	-0.9	30.0
2-Chlorophenol	Ave	1.415	1.434	0.8000	50700	50000	1.3	30.0
n-Decane	Ave	1.799	1.772	0.0100	49300	50000	-1.5	30.0
1,3-Dichlorobenzene	Ave	1.563	1.527	0.0100	48900	50000	-2.3	30.0
1,4-Dichlorobenzene	Ave	1.568	1.573	0.0100	50100	50000	0.3	30.0
Benzyl alcohol	Ave	0.9023	0.9584	0.0100	53100	50000	6.2	30.0
1,2-Dichlorobenzene	Ave	1.471	1.481	0.0100	50300	50000	0.6	30.0
2-Methylphenol	Ave	1.259	1.332	0.7000	52900	50000	5.8	30.0
2,2'-oxybis[1-chloropropane]	Ave	2.021	2.075	0.0100	51300	50000	2.7	30.0
Indene	Ave	2.523	2.461		48800	50000	-2.5	
4-Methylphenol	Ave	1.323	1.355	0.6000	51200	50000	2.5	30.0
N-Nitrosodi-n-propylamine	Ave	1.017	1.060	0.5000	52100	50000	4.3	30.0
Acetophenone	Ave	1.907	1.939	0.0100	50800	50000	1.7	30.0
Hexachloroethane	Ave	0.6192	0.6306	0.3000	50900	50000	1.8	30.0
Nitrobenzene	Ave	0.3673	0.3691	0.2000	50200	50000	0.5	30.0
Isophorone	Ave	0.6567	0.6804	0.4000	51800	50000	3.6	30.0
2-Nitrophenol	Lin1		0.1760	0.1000	51500	50000	3.1	25.0
2,4-Dimethylphenol	Ave	0.3494	0.3545	0.2000	50700	50000	1.5	30.0
Benzoic acid	Lin1		0.2150	0.0100	55200	50000	10.3	25.0
Bis(2-chloroethoxy)methane	Ave	0.4203	0.4181	0.3000	49700	50000	-0.5	30.0
2,4-Dichlorophenol	Ave	0.2750	0.2844	0.2000	51700	50000	3.4	30.0
1,2,4-Trichlorobenzene	Ave	0.3173	0.3140	0.0100	49500	50000	-1.1	30.0
Naphthalene	Ave	1.009	1.013	0.7000	50200	50000	0.3	30.0
4-Chloroaniline	Ave	0.4299	0.4339	0.0100	50500	50000	0.9	30.0
2,6-Dichlorophenol	Ave	0.2760	0.2824	0.0100	51200	50000	2.3	30.0
Hexachlorobutadiene	Ave	0.1940	0.1931	0.0100	49800	50000	-0.5	30.0
Caprolactam	Lin1		0.1091	0.0100	52400	50000	4.7	25.0
4-Chloro-3-methylphenol	Ave	0.2796	0.2934	0.2000	52500	50000	4.9	30.0
2-Methylnaphthalene	Ave	0.6460	0.6533	0.4000	50600	50000	1.1	30.0
1-Methylnaphthalene	Ave	0.6087	0.6097	0.0100	50100	50000	0.2	30.0
Hexachlorocyclopentadiene	Lin1		0.4049	0.0500	45800	50000	-8.3	25.0
1,2,4,5-Tetrachlorobenzene	Ave	0.5750	0.5615	0.0100	48800	50000	-2.3	30.0
2,4,6-Trichlorophenol	Lin1		0.3705	0.2000	50400	50000	0.8	25.0
2,4,5-Trichlorophenol	Lin1		0.4065	0.2000	53100	50000	6.2	25.0
1,1'-Biphenyl	Ave	1.433	1.435	0.0100	50000	50000	0.1	30.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 460-110715-1

SDG No.: _____

Lab Sample ID: ICV 480-290883/9 Calibration Date: 03/15/2016 14:18

Instrument ID: HP5973U Calib Start Date: 03/15/2016 11:37

GC Column: RXI-5Sil MS ID: 0.25 (mm) Calib End Date: 03/15/2016 13:51

Lab File ID: U25632.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Chloronaphthalene	Ave	1.153	1.149	0.8000	49800	50000	-0.3	30.0
2-Nitroaniline	Lin1		0.3545	0.0100	50900	50000	1.8	25.0
Dimethyl phthalate	Ave	1.266	1.295	0.0100	51100	50000	2.3	30.0
1,3-Dinitrobenzene	Lin1		0.1073	0.0100	52000	50000	4.0	25.0
2,6-Dinitrotoluene	Lin1		0.2969	0.2000	51200	50000	2.5	25.0
Acenaphthylene	Ave	1.684	1.701	0.9000	50500	50000	1.0	30.0
3-Nitroaniline	Lin1		0.3253	0.0100	51200	50000	2.4	25.0
2,4-Dinitrophenol	Lin1		0.1460	0.0100	99200	100000	-0.8	25.0
Acenaphthene	Ave	1.123	1.150	0.0100	51200	50000	2.3	30.0
4-Nitrophenol	Lin1		0.1808	0.0100	103000	100000	3.4	25.0
2,4-Dinitrotoluene	Lin1		0.3915	0.0100	51400	50000	2.8	25.0
Dibenzofuran	Ave	1.616	1.588	0.8000	49100	50000	-1.7	30.0
2,3,4,6-Tetrachlorophenol	Lin1		0.3319	0.0100	51300	50000	2.6	25.0
Diethyl phthalate	Ave	1.228	1.258	0.0100	51200	50000	2.4	30.0
Hexadecane	Ave	0.9296	0.9517	0.0100	51200	50000	2.4	30.0
4-Chlorophenyl phenyl ether	Ave	0.6546	0.6468	0.4000	49400	50000	-1.2	30.0
4-Nitroaniline	Lin1		0.3425	0.0100	51000	50000	1.9	25.0
Fluorene	Ave	1.327	1.323	0.9000	49800	50000	-0.3	30.0
4,6-Dinitro-2-methylphenol	Lin1		0.1322	0.0100	99700	100000	-0.3	25.0
Diphenylamine	Ave	0.6844	0.6828	0.0100	85300	85500	-0.2	30.0
N-Nitrosodiphenylamine	Ave	0.5822	0.5838	0.0100	100000	100000	0.3	30.0
1,2-Diphenylhydrazine	Ave	0.8520	0.8621	0.0100	50600	50000	1.2	30.0
trans-Azobenzene	Ave	0.8520	0.8621	0.0100	50600	50000	1.2	30.0
4-Bromophenyl phenyl ether	Ave	0.2415	0.2407	0.1000	49800	50000	-0.3	30.0
Hexachlorobenzene	Ave	0.2892	0.2989	0.1000	51700	50000	3.3	30.0
Atrazine	Ave	0.3372	0.3381	0.0100	50100	50000	0.3	30.0
n-Octadecane	Ave	0.5598	0.5757	0.0100	51400	50000	2.8	30.0
Pentachlorophenol	Lin1		0.1750	0.0500	101000	100000	1.2	25.0
Phenanthrene	Ave	1.116	1.114	0.7000	49900	50000	-0.1	30.0
Anthracene	Ave	1.148	1.143	0.7000	49800	50000	-0.4	30.0
Carbazole	Ave	1.048	1.044	0.0100	49800	50000	-0.4	30.0
Di-n-butyl phthalate	Ave	1.209	1.250	0.0100	51700	50000	3.5	30.0
Fluoranthene	Ave	1.208	1.210	0.6000	50100	50000	0.2	30.0
Benzidine	Lin1		0.4336	0.0100	70700	50000	41.4*	25.0
Pyrene	Ave	1.116	1.125	0.6000	50400	50000	0.8	30.0
Butyl benzyl phthalate	Lin1		0.5091	0.0100	51600	50000	3.1	25.0
Bis(2-ethylhexyl) phthalate	Ave	0.6441	0.6911	0.0100	53600	50000	7.3	30.0
3,3'-Dichlorobenzidine	Lin1		0.4360	0.0100	53200	50000	6.5	25.0
Benzo[a]anthracene	Ave	1.143	1.170	0.8000	51200	50000	2.3	30.0
Chrysene	Ave	1.107	1.140	0.7000	51500	50000	3.0	30.0
Di-n-octyl phthalate	Lin1		1.178	0.0100	51100	50000	2.2	25.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 460-110715-1
 SDG No.: _____
 Lab Sample ID: ICV 480-290883/9 Calibration Date: 03/15/2016 14:18
 Instrument ID: HP5973U Calib Start Date: 03/15/2016 11:37
 GC Column: RXI-5Sil MS ID: 0.25 (mm) Calib End Date: 03/15/2016 13:51
 Lab File ID: U25632.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Benzo[b]fluoranthene	Ave	1.171	1.171	0.7000	50000	50000	0.0	30.0
Benzo[k]fluoranthene	Ave	1.202	1.308	0.7000	54400	50000	8.8	30.0
Benzo[a]pyrene	Ave	1.096	1.119	0.7000	51000	50000	2.1	30.0
Dibenz(a,h)anthracene	Lin1		1.185	0.4000	48200	50000	-3.7	25.0
Indeno[1,2,3-cd]pyrene	Lin1		1.373	0.5000	47600	50000	-4.8	25.0
Benzo[g,h,i]perylene	Lin1		1.075	0.5000	46500	50000	-7.0	25.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U25632.D
 Lims ID: ICV - List1
 Client ID:
 Sample Type: ICV
 Inject. Date: 15-Mar-2016 14:18:30 ALS Bottle#: 7 Worklist Smp#: 9
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 480-0051236-009
 Misc. Info.: ICV - LIST1
 Operator ID: MKP Instrument ID: HP5973U
 Sublist:
 Method: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U-8270.m
 Limit Group: MB - 8270D ICAL
 Last Update: 17-Mar-2016 13:23:26 Calib Date: 15-Mar-2016 21:31:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U25648.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK030

First Level Reviewer: pagem

Date: 16-Mar-2016 10:52:03

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.996	6.996	0.000	97	114821	40.0	40.0	
* 2 Naphthalene-d8	136	8.508	8.508	0.000	100	449714	40.0	40.0	
* 3 Acenaphthene-d10	164	10.565	10.565	0.000	98	245593	40.0	40.0	
* 4 Phenanthrene-d10	188	12.082	12.082	0.000	99	407394	40.0	40.0	
* 5 Chrysene-d12	240	14.518	14.518	0.000	97	450506	40.0	40.0	
* 6 Perylene-d12	264	16.196	16.195	0.001	97	449306	40.0	40.0	
80 1,4-Dioxane	88	3.128	3.128	0.000	98	88374	50.0	47.1	
81 N-Nitrosodimethylamine	42	3.556	3.556	0.000	92	105503	50.0	42.2	
82 Pyridine	52	3.657	3.657	0.000	92	171923	50.0	48.9	
88 Benzaldehyde	77	6.467	6.467	0.000	95	111733	50.0	114.0	
89 Phenol	94	6.521	6.515	0.006	99	256818	50.0	50.5	
90 Aniline	93	6.590	6.590	0.000	97	317401	50.0	51.2	
91 Bis(2-chloroethyl)ether	93	6.638	6.638	0.000	98	206673	50.0	49.5	
93 2-Chlorophenol	128	6.745	6.745	0.000	97	205846	50.0	50.7	
258 n-Decane	57	6.782	6.782	0.000	98	254391	50.0	49.3	
94 1,3-Dichlorobenzene	146	6.937	6.937	0.000	97	219205	50.0	48.9	
95 1,4-Dichlorobenzene	146	7.018	7.017	0.001	93	225716	50.0	50.1	
96 Benzyl alcohol	108	7.124	7.124	0.000	93	137561	50.0	53.1	
97 1,2-Dichlorobenzene	146	7.205	7.204	0.000	95	212494	50.0	50.3	
98 2-Methylphenol	108	7.242	7.242	0.000	97	191224	50.0	52.9	
99 2,2'-oxybis[1-chloropropan	45	7.290	7.285	0.005	94	297880	50.0	51.3	
249 Indene	115	7.306	7.306	0.000	96	353171	50.0	48.8	
102 4-Methylphenol	108	7.418	7.418	0.000	96	194549	50.0	51.2	
101 N-Nitrosodi-n-propylamine	70	7.434	7.434	0.000	91	152146	50.0	52.1	
104 Acetophenone	105	7.450	7.445	0.005	96	278252	50.0	50.8	
106 Hexachloroethane	117	7.616	7.616	0.000	98	90508	50.0	50.9	
107 Nitrobenzene	77	7.659	7.658	0.001	89	207462	50.0	50.2	
110 Isophorone	82	7.931	7.931	0.000	99	382502	50.0	51.8	
111 2-Nitrophenol	139	8.043	8.043	0.000	96	98950	50.0	51.5	
112 2,4-Dimethylphenol	107	8.054	8.054	0.000	96	199274	50.0	50.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
119 Benzoic acid	105	8.123	8.113	0.010	89	120866	50.0	55.2	M
115 Bis(2-chloroethoxy)methane	93	8.166	8.161	0.005	99	235037	50.0	49.7	
117 2,4-Dichlorophenol	162	8.321	8.321	0.000	95	159867	50.0	51.7	
120 1,2,4-Trichlorobenzene	180	8.439	8.438	0.001	94	176482	50.0	49.5	
121 Naphthalene	128	8.535	8.535	0.000	98	569265	50.0	50.2	
123 4-Chloroaniline	127	8.567	8.567	0.000	96	243926	50.0	50.5	
124 2,6-Dichlorophenol	162	8.593	8.588	0.005	97	158755	50.0	51.2	
126 Hexachlorobutadiene	225	8.684	8.684	0.000	96	108574	50.0	49.8	
127 Caprolactam	113	8.946	8.946	0.000	79	61333	50.0	52.4	
131 4-Chloro-3-methylphenol	107	9.122	9.122	0.000	93	164957	50.0	52.5	
133 2-Methylnaphthalene	142	9.357	9.357	0.000	92	367244	50.0	50.6	
252 1-Methylnaphthalene	142	9.475	9.475	0.000	97	342710	50.0	50.1	
136 Hexachlorocyclopentadiene	237	9.555	9.555	0.000	96	124302	50.0	45.8	
138 1,2,4,5-Tetrachlorobenzene	216	9.560	9.560	0.000	98	172378	50.0	48.8	
139 2,4,6-Trichlorophenol	196	9.678	9.678	0.000	96	113744	50.0	50.4	
140 2,4,5-Trichlorophenol	196	9.726	9.726	0.000	95	124801	50.0	53.1	
144 1,1'-Biphenyl	154	9.897	9.897	0.000	96	440383	50.0	50.0	
143 2-Chloronaphthalene	162	9.934	9.934	0.000	97	352817	50.0	49.8	
145 2-Nitroaniline	65	10.025	10.025	0.000	83	108818	50.0	50.9	
147 Dimethyl phthalate	163	10.218	10.217	0.001	99	397414	50.0	51.1	
50 1,3-Dinitrobenzene	168	10.255	10.255	0.000	84	60335	50.0	52.0	
148 2,6-Dinitrotoluene	165	10.287	10.287	0.000	95	91132	50.0	51.2	
149 Acenaphthylene	152	10.410	10.410	0.000	98	522121	50.0	50.5	
150 3-Nitroaniline	138	10.485	10.485	0.000	93	99856	50.0	51.2	
152 2,4-Dinitrophenol	184	10.597	10.597	0.000	84	89642	100.0	99.2	
151 Acenaphthene	153	10.602	10.602	0.000	94	352911	50.0	51.2	
153 4-Nitrophenol	109	10.640	10.639	0.001	93	110985	100.0	103.4	
154 2,4-Dinitrotoluene	165	10.736	10.736	0.000	94	120180	50.0	51.4	
155 Dibenzofuran	168	10.784	10.784	0.000	96	487399	50.0	49.1	
158 2,3,4,6-Tetrachlorophenol	232	10.907	10.907	0.000	98	101889	50.0	51.3	
160 Diethyl phthalate	149	10.976	10.976	0.000	98	386244	50.0	51.2	
257 Hexadecane	57	10.987	10.987	0.000	97	292174	50.0	51.2	
162 4-Chlorophenyl phenyl ethe	204	11.126	11.126	0.000	90	198566	50.0	49.4	
164 4-Nitroaniline	138	11.136	11.136	0.000	85	105154	50.0	51.0	
161 Fluorene	166	11.147	11.147	0.000	94	406231	50.0	49.8	
166 4,6-Dinitro-2-methylphenol	198	11.174	11.174	0.000	86	134612	100.0	99.7	
169 Diphenylamine	169	11.238	11.238	0.000	97	594575	85.5	85.3	
167 N-Nitrosodiphenylamine	169	11.238	11.238	0.000	98	594575	100.0	100.3	
170 Azobenzene	77	11.286	11.286	0.000	98	439029	50.0	50.6	
168 1,2-Diphenylhydrazine	77	11.286	11.286	0.000	99	439029	50.0	50.6	
176 4-Bromophenyl phenyl ether	248	11.623	11.622	0.001	95	122557	50.0	49.8	
177 Hexachlorobenzene	284	11.719	11.719	0.000	97	152200	50.0	51.7	
180 Atrazine	200	11.740	11.740	0.000	93	103795	50.0	50.1	
181 Pentachlorophenol	266	11.895	11.895	0.000	94	178183	100.0	101.2	
263 n-Octadecane	57	11.895	11.900	-0.005	98	293146	50.0	51.4	
185 Phenanthrene	178	12.103	12.103	0.000	97	567467	50.0	49.9	
188 Anthracene	178	12.151	12.151	0.000	97	581961	50.0	49.8	
189 Carbazole	167	12.285	12.285	0.000	97	531706	50.0	49.8	
192 Di-n-butyl phthalate	149	12.547	12.547	0.000	100	636801	50.0	51.7	
197 Fluoranthene	202	13.199	13.198	0.000	99	616400	50.0	50.1	
198 Benzidine	184	13.279	13.279	0.000	98	244180	50.0	70.7	
199 Pyrene	202	13.418	13.417	0.001	96	633595	50.0	50.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
205 Butyl benzyl phthalate	149	13.898	13.898	0.000	99	286710	50.0	51.6	
210 Bis(2-ethylhexyl) phthalat	149	14.390	14.390	0.000	97	389164	50.0	53.6	
208 3,3'-Dichlorobenzidine	252	14.433	14.432	0.001	99	245525	50.0	53.2	
209 Benzo[a]anthracene	228	14.507	14.507	0.000	98	658834	50.0	51.2	
211 Chrysene	228	14.545	14.545	0.000	97	641875	50.0	51.5	
212 Di-n-octyl phthalate	149	15.020	15.020	0.000	100	663329	50.0	51.1	
213 Benzo[b]fluoranthene	252	15.683	15.683	0.000	97	657675	50.0	50.0	
214 Benzo[k]fluoranthene	252	15.715	15.715	0.000	98	734632	50.0	54.4	
217 Benzo[a]pyrene	252	16.121	16.121	0.000	97	628471	50.0	51.0	
220 Dibenz(a,h)anthracene	278	17.889	17.889	0.000	90	665320	50.0	48.2	
219 Indeno[1,2,3-cd]pyrene	276	17.894	17.894	0.000	98	771159	50.0	47.6	
221 Benzo[g,h,i]perylene	276	18.423	18.423	0.000	97	603766	50.0	46.5	
S 78 3-Methylphenol	1				0		25.0	51.2	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MB_L1SS_WRK_00013

Amount Added: 1.00

Units: mL

MB_INTSTD_STK_00019

Amount Added: 20.00

Units: uL

Run Reagent

Chrom Revision: 2.2 04-Mar-2016 14:36:24

Operator ID: MKP

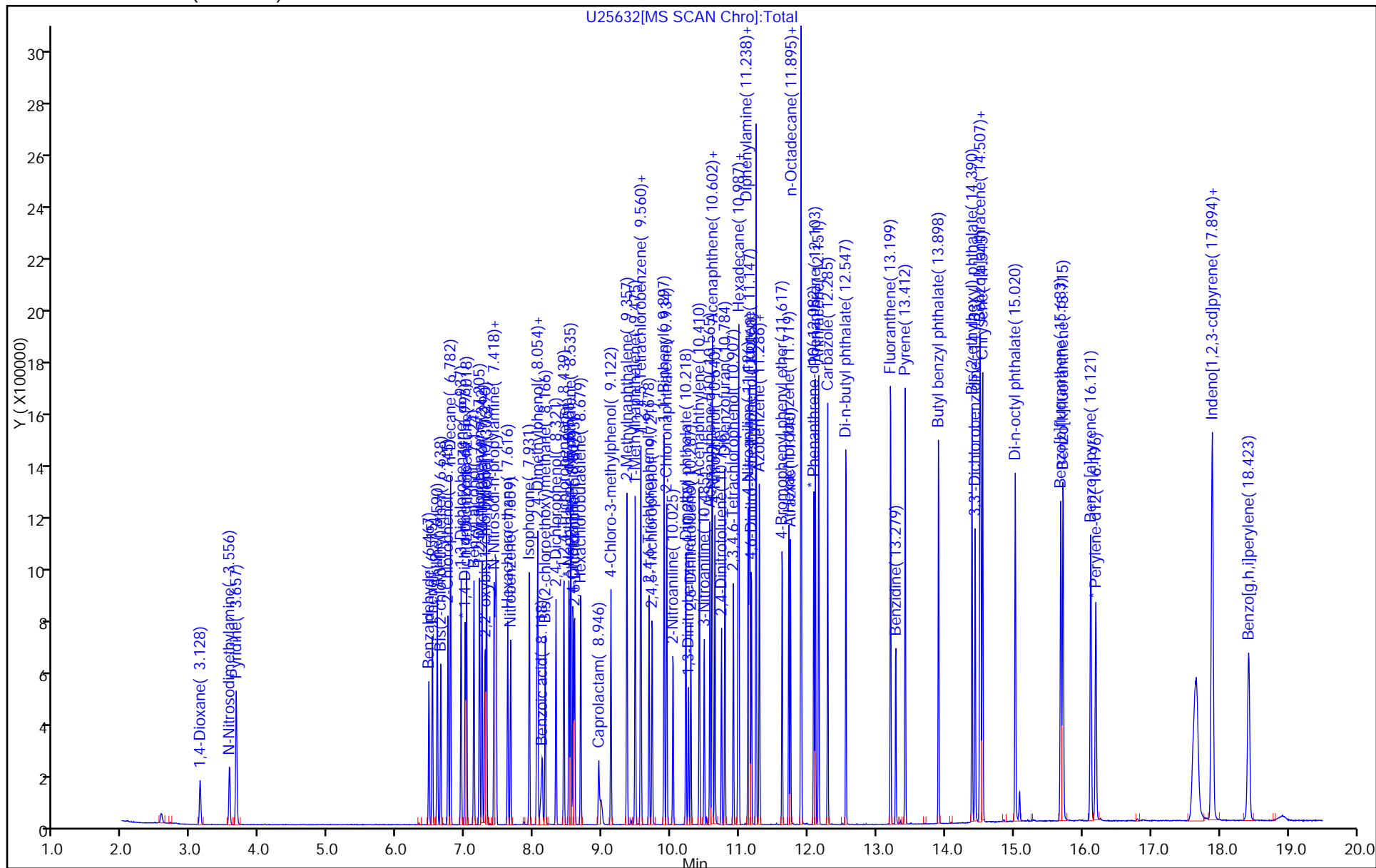
Worklist Smp#: 9

ALS Bottle#: 7

ALS Bottle#: 7

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U25632.D

Injection Date: 15-Mar-2016 14:18:30

Instrument ID: HP5973U

Lims ID: ICV - List1

Client ID:

Operator ID: MKP

ALS Bottle#:

7

Worklist Smp#: 9

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: U-8270

Limit Group: MB - 8270D ICAL

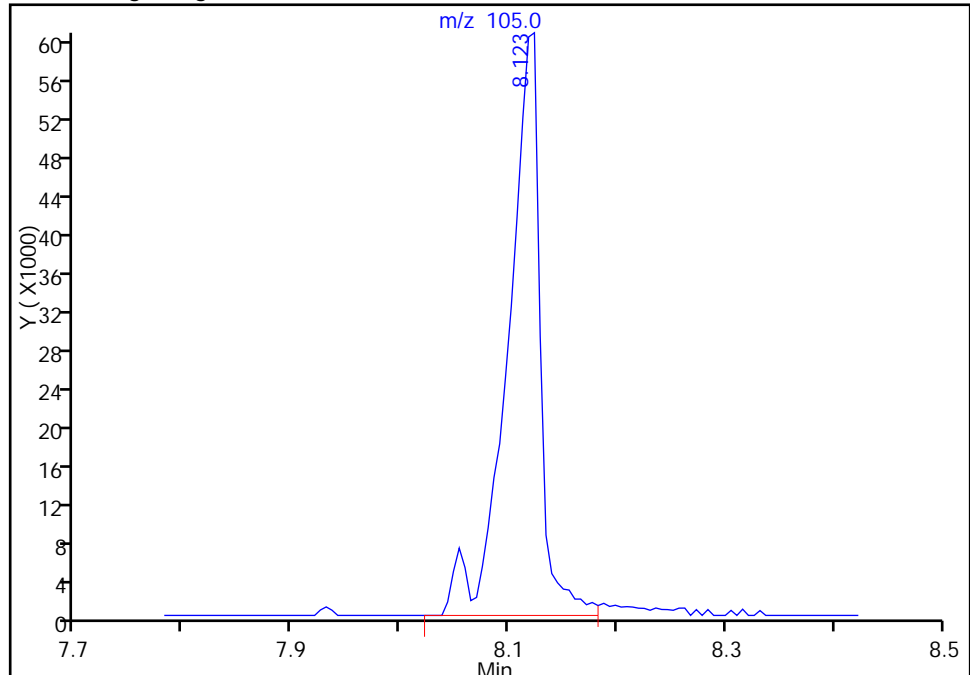
Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

119 Benzoic acid, CAS: 65-85-0

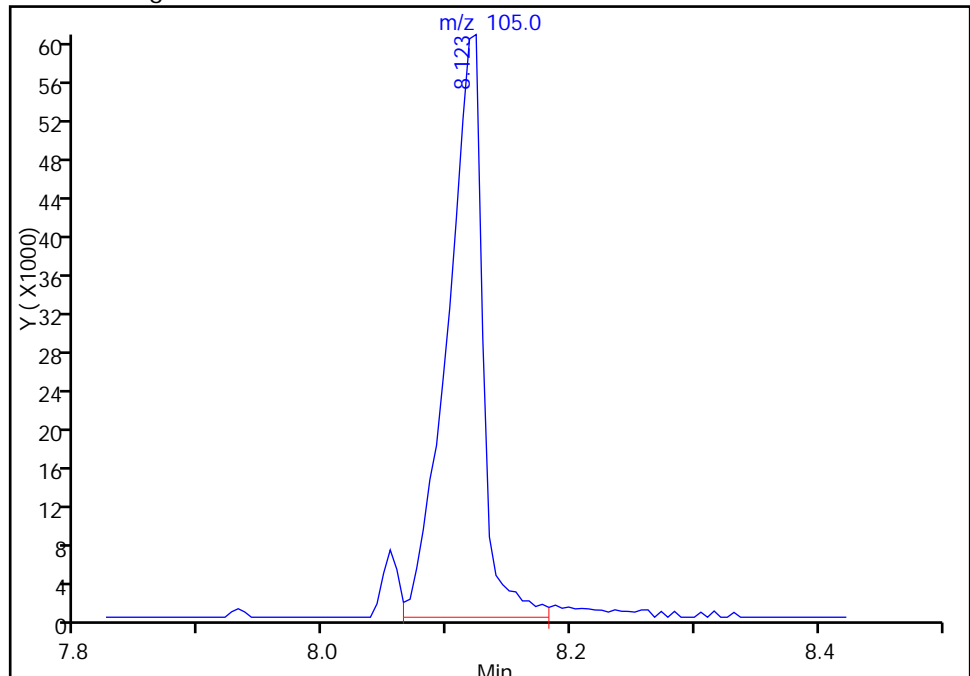
RT: 8.12
Area: 126600
Amount: 57.585591
Amount Units: ng/uL

Processing Integration Results



RT: 8.12
Area: 120866
Amount: 55.173975
Amount Units: ng/uL

Manual Integration Results



Reviewer: pagem, 16-Mar-2016 10:52:03

Audit Action: Split an Integrated Peak

Audit Reason: Peak Tail

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 460-110715-1

SDG No.: _____

Lab Sample ID: CCVIS 480-293176/3 Calibration Date: 03/30/2016 05:44

Instrument ID: HP5973U Calib Start Date: 03/15/2016 11:37

GC Column: RXI-5Sil MS ID: 0.25 (mm) Calib End Date: 03/15/2016 13:51

Lab File ID: U25857.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.6538	0.6436	0.0100	49200	50000	-1.6	50.0
N-Nitrosodimethylamine	Ave	0.8716	0.7523	0.0100	43200	50000	-13.7	25.0
Pyridine	Ave	1.225	1.271	0.0100	51900	50000	3.8	50.0
Benzaldehyde	Ave	0.3413	0.4878	0.0100	71400	50000	42.9*	40.0
Phenol	Ave	1.770	1.790	0.8000	50500	50000	1.1	20.0
Aniline	Ave	2.160	2.187	0.0100	50600	50000	1.3	50.0
Bis(2-chloroethyl)ether	Ave	1.453	1.433	0.7000	49300	50000	-1.4	20.0
2-Chlorophenol	Ave	1.415	1.424	0.8000	50300	50000	0.6	20.0
n-Decane	Ave	1.799	1.799	0.0100	50000	50000	0.0	40.0
1,3-Dichlorobenzene	Ave	1.563	1.538	0.0100	49200	50000	-1.6	20.0
1,4-Dichlorobenzene	Ave	1.568	1.562	0.0100	49800	50000	-0.4	20.0
Benzyl alcohol	Ave	0.9023	0.9044	0.0100	50100	50000	0.2	50.0
1,2-Dichlorobenzene	Ave	1.471	1.444	0.0100	49100	50000	-1.9	20.0
2-Methylphenol	Ave	1.259	1.263	0.7000	50100	50000	0.3	20.0
2,2'-oxybis[1-chloropropane]	Ave	2.021	1.952	0.0100	48300	50000	-3.4	20.0
Indene	Ave	2.523	2.486		49300	50000	-1.5	
4-Methylphenol	Ave	1.323	1.323	0.6000	50000	50000	0.0	20.0
N-Nitrosodi-n-propylamine	Ave	1.017	1.007	0.5000	49500	50000	-1.0	20.0
Acetophenone	Ave	1.907	1.836	0.0100	48100	50000	-3.7	40.0
Hexachloroethane	Ave	0.6192	0.5975	0.3000	48200	50000	-3.5	20.0
Nitrobenzene	Ave	0.3673	0.3774	0.2000	51400	50000	2.7	20.0
Isophorone	Ave	0.6567	0.6648	0.4000	50600	50000	1.2	20.0
2-Nitrophenol	Lin1		0.1866	0.1000	54500	50000	9.0	20.0
2,4-Dimethylphenol	Ave	0.3494	0.3491	0.2000	50000	50000	-0.0	20.0
Benzoic acid	Lin1		0.2457	0.0100	62400	50000	24.8	25.0
Bis(2-chloroethoxy)methane	Ave	0.4203	0.4176	0.3000	49700	50000	-0.6	20.0
2,4-Dichlorophenol	Ave	0.2750	0.2874	0.2000	52300	50000	4.5	20.0
1,2,4-Trichlorobenzene	Ave	0.3173	0.3198	0.0100	50400	50000	0.8	20.0
Naphthalene	Ave	1.009	0.998	0.7000	49500	50000	-1.1	20.0
4-Chloroaniline	Ave	0.4299	0.4268	0.0100	49600	50000	-0.7	20.0
2,6-Dichlorophenol	Ave	0.2760	0.2832	0.0100	51300	50000	2.6	50.0
Hexachlorobutadiene	Ave	0.1940	0.1974	0.0100	50900	50000	1.7	20.0
Caprolactam	Lin1		0.1081	0.0100	51900	50000	3.8	40.0
4-Chloro-3-methylphenol	Ave	0.2796	0.2906	0.2000	52000	50000	3.9	20.0
2-Methylnaphthalene	Ave	0.6460	0.6469	0.4000	50100	50000	0.1	20.0
1-Methylnaphthalene	Ave	0.6087	0.6059	0.0100	49800	50000	-0.5	40.0
Hexachlorocyclopentadiene	Lin1		0.4108	0.0500	46500	50000	-7.0	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.5750	0.5782	0.0100	50300	50000	0.5	40.0
2,4,6-Trichlorophenol	Lin1		0.3793	0.2000	51500	50000	3.1	20.0
2,4,5-Trichlorophenol	Lin1		0.3890	0.2000	50900	50000	1.8	20.0
1,1'-Biphenyl	Ave	1.433	1.419	0.0100	49500	50000	-1.0	40.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 460-110715-1

SDG No.: _____

Lab Sample ID: CCVIS 480-293176/3 Calibration Date: 03/30/2016 05:44

Instrument ID: HP5973U Calib Start Date: 03/15/2016 11:37

GC Column: RXI-5Sil MS ID: 0.25 (mm) Calib End Date: 03/15/2016 13:51

Lab File ID: U25857.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Chloronaphthalene	Ave	1.153	1.144	0.8000	49600	50000	-0.8	25.0
2-Nitroaniline	Lin1		0.3539	0.0100	50800	50000	1.6	20.0
Dimethyl phthalate	Ave	1.266	1.280	0.0100	50600	50000	1.1	20.0
1,3-Dinitrobenzene	Lin1		0.1195	0.0100	57500	50000	15.0	50.0
2,6-Dinitrotoluene	Lin1		0.3029	0.2000	52200	50000	4.5	20.0
Acenaphthylene	Ave	1.684	1.683	0.9000	50000	50000	-0.0	20.0
3-Nitroaniline	Lin1		0.3251	0.0100	51200	50000	2.4	20.0
2,4-Dinitrophenol	Lin1		0.1704	0.0100	114000	100000	14.3	20.0
Acenaphthene	Ave	1.123	1.133	0.0100	50400	50000	0.8	20.0
4-Nitrophenol	Lin1		0.1783	0.0100	102000	100000	2.0	20.0
2,4-Dinitrotoluene	Lin1		0.4178	0.0100	54700	50000	9.4	20.0
Dibenzofuran	Ave	1.616	1.619	0.8000	50100	50000	0.2	20.0
2,3,4,6-Tetrachlorophenol	Lin1		0.3348	0.0100	51700	50000	3.4	40.0
Diethyl phthalate	Ave	1.228	1.259	0.0100	51300	50000	2.5	20.0
Hexadecane	Ave	0.9296	0.9092	0.0100	48900	50000	-2.2	40.0
4-Chlorophenyl phenyl ether	Ave	0.6546	0.6713	0.4000	51300	50000	2.6	20.0
4-Nitroaniline	Lin1		0.3523	0.0100	52400	50000	4.7	20.0
Fluorene	Ave	1.327	1.337	0.9000	50400	50000	0.7	20.0
4,6-Dinitro-2-methylphenol	Lin1		0.1525	0.0100	114000	100000	13.8	20.0
Diphenylamine	Ave	0.6844	0.6688	0.0100	41600	42500	-2.3	50.0
N-Nitrosodiphenylamine	Ave	0.5822	0.5689	0.0100	48900	50000	-2.3	20.0
1,2-Diphenylhydrazine	Ave	0.8520	0.7970	0.0100	46800	50000	-6.5	25.0
trans-Azobenzene	Ave	0.8520	0.7970	0.0100	46800	50000	-6.5	40.0
4-Bromophenyl phenyl ether	Ave	0.2415	0.2462	0.1000	51000	50000	1.9	20.0
Hexachlorobenzene	Ave	0.2892	0.2966	0.1000	51300	50000	2.5	20.0
Atrazine	Ave	0.3372	0.3630	0.0100	53800	50000	7.6	25.0
n-Octadecane	Ave	0.5598	0.5306	0.0100	47400	50000	-5.2	40.0
Pentachlorophenol	Lin1		0.1517	0.0500	88500	100000	-11.5	20.0
Phenanthrene	Ave	1.116	1.112	0.7000	49800	50000	-0.4	20.0
Anthracene	Ave	1.148	1.145	0.7000	49900	50000	-0.3	20.0
Carbazole	Ave	1.048	1.060	0.0100	50500	50000	1.1	20.0
Di-n-butyl phthalate	Ave	1.209	1.256	0.0100	52000	50000	4.0	20.0
Fluoranthene	Ave	1.208	1.299	0.6000	53800	50000	7.6	20.0
Benzidine	Lin1		0.3569	0.0100	58700	50000	17.3	25.0
Pyrene	Ave	1.116	1.033	0.6000	46300	50000	-7.5	20.0
Butyl benzyl phthalate	Lin1		0.4861	0.0100	49300	50000	-1.4	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.6441	0.7050	0.0100	54700	50000	9.4	20.0
3,3'-Dichlorobenzidine	Lin1		0.4627	0.0100	56400	50000	12.8	20.0
Benzo[a]anthracene	Ave	1.143	1.166	0.8000	51000	50000	2.0	20.0
Chrysene	Ave	1.107	1.111	0.7000	50200	50000	0.3	20.0
Di-n-octyl phthalate	Lin1		1.248	0.0100	54000	50000	8.1	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 460-110715-1
 SDG No.: _____
 Lab Sample ID: CCVIS 480-293176/3 Calibration Date: 03/30/2016 05:44
 Instrument ID: HP5973U Calib Start Date: 03/15/2016 11:37
 GC Column: RXI-5Sil MS ID: 0.25 (mm) Calib End Date: 03/15/2016 13:51
 Lab File ID: U25857.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Benzo[b]fluoranthene	Ave	1.171	1.155	0.7000	49300	50000	-1.4	20.0
Benzo[k]fluoranthene	Ave	1.202	1.175	0.7000	48900	50000	-2.2	20.0
Benzo[a]pyrene	Ave	1.096	1.110	0.7000	50600	50000	1.2	20.0
Dibenz(a,h)anthracene	Lin1		1.270	0.4000	51500	50000	3.0	20.0
Indeno[1,2,3-cd]pyrene	Lin1		1.483	0.5000	51300	50000	2.6	20.0
Benzo[g,h,i]perylene	Lin1		1.260	0.5000	54200	50000	8.5	20.0
2-Fluorophenol (Surr)	Ave	1.383	1.416	0.0100	51200	50000	2.4	25.0
Phenol-d5 (Surr)	Ave	1.684	1.732	0.0100	51400	50000	2.8	25.0
Nitrobenzene-d5 (Surr)	Ave	0.3979	0.3935	0.0100	49500	50000	-1.1	25.0
2-Fluorobiphenyl	Ave	1.333	1.339	0.0100	50200	50000	0.5	25.0
2,4,6-Tribromophenol (Surr)	Lin1		0.1609	0.0100	53000	50000	5.9	25.0
p-Terphenyl-d14 (Surr)	Ave	0.8799	0.8422	0.0100	47900	50000	-4.3	25.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160330-51640.b\U25857.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 30-Mar-2016 05:44:30 ALS Bottle#: 3 Worklist Smp#: 3
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 480-0051640-003
 Misc. Info.: 480-97201-A-1-A
 Operator ID: CAS Instrument ID: HP5973U
 Sublist: chrom-U-8270*sub56
 Method: \\ChromNA\Buffalo\ChromData\HP5973U\20160330-51640.b\U-8270.m
 Limit Group: MB - 8270D ICAL
 Last Update: 30-Mar-2016 06:34:05 Calib Date: 15-Mar-2016 21:31:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U25648.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK005

First Level Reviewer: sosinskic

Date: 30-Mar-2016 06:34:05

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.985	6.985	0.000	96	133486	40.0	40.0	
* 2 Naphthalene-d8	136	8.497	8.497	0.000	99	512909	40.0	40.0	
* 3 Acenaphthene-d10	164	10.559	10.559	0.000	98	281288	40.0	40.0	
* 4 Phenanthrene-d10	188	12.071	12.071	0.000	97	480982	40.0	40.0	
* 5 Chrysene-d12	240	14.507	14.507	0.000	97	624835	40.0	40.0	
* 6 Perylene-d12	264	16.179	16.179	0.000	97	719375	40.0	40.0	
\$ 9 2-Fluorophenol	112	5.404	5.404	0.000	96	236267	50.0	51.2	
\$ 10 Phenol-d5	99	6.505	6.505	0.000	86	288942	50.0	51.4	
\$ 11 Nitrobenzene-d5	82	7.627	7.627	0.000	96	252293	50.0	49.5	
\$ 12 2-Fluorobiphenyl	172	9.763	9.763	0.000	100	470752	50.0	50.2	
\$ 13 2,4,6-Tribromophenol	330	11.388	11.388	0.000	90	96712	50.0	53.0	
\$ 14 p-Terphenyl-d14	244	13.498	13.498	0.000	96	657812	50.0	47.9	
80 1,4-Dioxane	88	3.107	3.107	0.000	98	107388	50.0	49.2	
81 N-Nitrosodimethylamine	42	3.540	3.540	0.000	95	125529	50.0	43.2	
82 Pyridine	52	3.636	3.636	0.000	92	212140	50.0	51.9	
88 Benzaldehyde	77	6.457	6.457	0.000	96	81384	50.0	71.4	
89 Phenol	94	6.521	6.521	0.000	98	298636	50.0	50.5	
90 Aniline	93	6.579	6.579	0.000	97	364987	50.0	50.6	
91 Bis(2-chloroethyl)ether	93	6.628	6.628	0.000	98	239150	50.0	49.3	
93 2-Chlorophenol	128	6.740	6.740	0.000	97	237581	50.0	50.3	
258 n-Decane	57	6.766	6.766	0.000	98	300231	50.0	50.0	
94 1,3-Dichlorobenzene	146	6.921	6.921	0.000	97	256552	50.0	49.2	
95 1,4-Dichlorobenzene	146	7.002	7.002	0.000	93	260567	50.0	49.8	
96 Benzyl alcohol	108	7.114	7.114	0.000	93	150904	50.0	50.1	
97 1,2-Dichlorobenzene	146	7.194	7.194	0.000	96	240929	50.0	49.1	
98 2-Methylphenol	108	7.242	7.242	0.000	97	210726	50.0	50.1	
99 2,2'-oxybis[1-chloropropan	45	7.274	7.274	0.000	95	325624	50.0	48.3	
249 Indene	115	7.295	7.295	0.000	97	414770	50.0	49.3	
102 4-Methylphenol	108	7.413	7.413	0.000	95	220825	50.0	50.0	
101 N-Nitrosodi-n-propylamine	70	7.424	7.424	0.000	87	168006	50.0	49.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
104 Acetophenone	105	7.440	7.440	0.000	97	306416	50.0	48.1	
106 Hexachloroethane	117	7.600	7.600	0.000	98	99691	50.0	48.2	
107 Nitrobenzene	77	7.648	7.648	0.000	87	241957	50.0	51.4	
110 Isophorone	82	7.920	7.920	0.000	99	426240	50.0	50.6	
111 2-Nitrophenol	139	8.033	8.033	0.000	93	119639	50.0	54.5	
112 2,4-Dimethylphenol	107	8.049	8.049	0.000	94	223843	50.0	50.0	
119 Benzoic acid	105	8.123	8.123	0.000	54	157493	50.0	62.4	M
115 Bis(2-chloroethoxy)methane	93	8.155	8.155	0.000	99	267743	50.0	49.7	
117 2,4-Dichlorophenol	162	8.316	8.316	0.000	94	184286	50.0	52.3	
120 1,2,4-Trichlorobenzene	180	8.428	8.428	0.000	94	205048	50.0	50.4	
121 Naphthalene	128	8.524	8.524	0.000	98	640162	50.0	49.5	
123 4-Chloroaniline	127	8.561	8.561	0.000	96	273658	50.0	49.6	
124 2,6-Dichlorophenol	162	8.583	8.583	0.000	97	181541	50.0	51.3	
126 Hexachlorobutadiene	225	8.668	8.668	0.000	96	126540	50.0	50.9	
127 Caprolactam	113	8.941	8.941	0.000	80	69328	50.0	51.9	
131 4-Chloro-3-methylphenol	107	9.122	9.122	0.000	92	186337	50.0	52.0	
133 2-Methylnaphthalene	142	9.347	9.347	0.000	92	414728	50.0	50.1	
252 1-Methylnaphthalene	142	9.464	9.464	0.000	97	388479	50.0	49.8	
136 Hexachlorocyclopentadiene	237	9.544	9.544	0.000	96	144448	50.0	46.5	
138 1,2,4,5-Tetrachlorobenzene	216	9.550	9.550	0.000	97	203288	50.0	50.3	
139 2,4,6-Trichlorophenol	196	9.673	9.673	0.000	95	133349	50.0	51.5	
140 2,4,5-Trichlorophenol	196	9.721	9.721	0.000	94	136789	50.0	50.9	
144 1,1'-Biphenyl	154	9.886	9.886	0.000	96	499031	50.0	49.5	
143 2-Chloronaphthalene	162	9.929	9.929	0.000	97	402072	50.0	49.6	
145 2-Nitroaniline	65	10.020	10.020	0.000	82	124422	50.0	50.8	
147 Dimethyl phthalate	163	10.207	10.207	0.000	99	449980	50.0	50.6	
50 1,3-Dinitrobenzene	168	10.250	10.250	0.000	89	76591	50.0	57.5	
148 2,6-Dinitrotoluene	165	10.282	10.282	0.000	96	106512	50.0	52.2	
149 Acenaphthylene	152	10.405	10.405	0.000	98	591832	50.0	50.0	
150 3-Nitroaniline	138	10.479	10.479	0.000	93	114312	50.0	51.2	
152 2,4-Dinitrophenol	184	10.592	10.592	0.000	82	119842	100.0	114.3	
151 Acenaphthene	153	10.592	10.592	0.000	94	398358	50.0	50.4	
153 4-Nitrophenol	109	10.645	10.645	0.000	93	125369	100.0	102.0	
154 2,4-Dinitrotoluene	165	10.730	10.730	0.000	95	146911	50.0	54.7	
155 Dibenzofuran	168	10.778	10.778	0.000	96	569417	50.0	50.1	
158 2,3,4,6-Tetrachlorophenol	232	10.901	10.901	0.000	97	117706	50.0	51.7	
160 Diethyl phthalate	149	10.965	10.965	0.000	98	442798	50.0	51.3	
257 Hexadecane	57	10.976	10.976	0.000	97	319683	50.0	48.9	
162 4-Chlorophenyl phenyl ethe	204	11.115	11.115	0.000	88	236049	50.0	51.3	
164 4-Nitroaniline	138	11.131	11.131	0.000	87	123886	50.0	52.4	
161 Fluorene	166	11.136	11.136	0.000	94	470168	50.0	50.4	
166 4,6-Dinitro-2-methylphenol	198	11.163	11.163	0.000	90	183412	100.0	113.8	
167 N-Nitrosodiphenylamine	169	11.233	11.233	0.000	98	342041	50.0	48.9	
169 Diphenylamine	169	11.233	11.233	0.000	97	342041	42.5	41.6	
168 1,2-Diphenylhydrazine	77	11.281	11.281	0.000	99	479157	50.0	46.8	
170 Azobenzene	77	11.281	11.281	0.000	99	479157	50.0	46.8	
176 4-Bromophenyl phenyl ether	248	11.612	11.612	0.000	94	148000	50.0	51.0	
177 Hexachlorobenzene	284	11.708	11.708	0.000	97	178314	50.0	51.3	
180 Atrazine	200	11.735	11.735	0.000	93	127629	50.0	53.8	
181 Pentachlorophenol	266	11.890	11.890	0.000	95	182428	100.0	88.5	
263 n-Octadecane	57	11.890	11.890	0.000	98	319038	50.0	47.4	
185 Phenanthrene	178	12.098	12.098	0.000	97	668291	50.0	49.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
188 Anthracene	178	12.146	12.146	0.000	97	688456	50.0	49.9	
189 Carbazole	167	12.280	12.280	0.000	98	637125	50.0	50.5	
192 Di-n-butyl phthalate	149	12.541	12.541	0.000	100	755350	50.0	52.0	
197 Fluoranthene	202	13.193	13.193	0.000	96	781199	50.0	53.8	
198 Benzidine	184	13.268	13.268	0.000	99	278739	50.0	58.7	
199 Pyrene	202	13.407	13.407	0.000	97	806436	50.0	46.3	
205 Butyl benzyl phthalate	149	13.893	13.893	0.000	98	379628	50.0	49.3	
210 Bis(2-ethylhexyl) phthalat	149	14.379	14.379	0.000	97	550595	50.0	54.7	
208 3,3'-Dichlorobenzidine	252	14.427	14.427	0.000	99	361375	50.0	56.4	
209 Benzo[a]anthracene	228	14.497	14.497	0.000	98	910941	50.0	51.0	
211 Chrysene	228	14.534	14.534	0.000	97	867578	50.0	50.2	
212 Di-n-octyl phthalate	149	15.004	15.004	0.000	100	974473	50.0	54.0	
213 Benzo[b]fluoranthene	252	15.672	15.672	0.000	97	1038217	50.0	49.3	
214 Benzo[k]fluoranthene	252	15.704	15.704	0.000	98	1056992	50.0	48.9	
217 Benzo[a]pyrene	252	16.110	16.110	0.000	97	998024	50.0	50.6	
220 Dibenz(a,h)anthracene	278	17.873	17.873	0.000	90	1142156	50.0	51.5	
219 Indeno[1,2,3-cd]pyrene	276	17.884	17.884	0.000	98	1333801	50.0	51.3	
221 Benzo[g,h,i]perylene	276	18.407	18.407	0.000	97	1133091	50.0	54.2	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MB_LIST1_WRK_00304

Amount Added: 1.00

Units: mL

MB_INTSTD_STK_00019

Amount Added: 20.00

Units: uL

Run Reagent

Chrom Revision: 2.2 04-Mar-2016 14:36:24

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160330-51640.b\U25857.D

Instrument ID: HP5973U

Operator ID: CAS

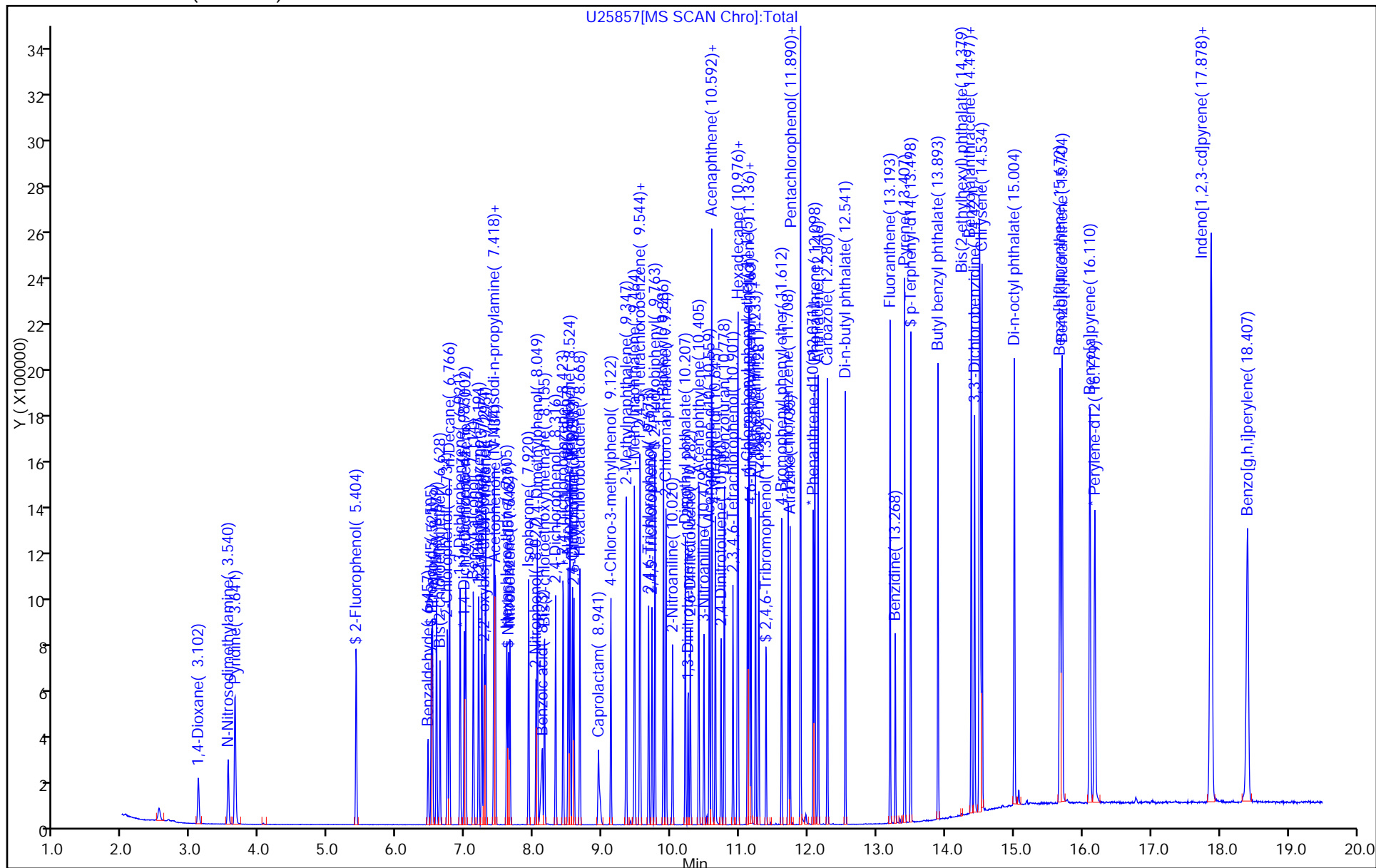
Worklist Smp#: 3

ALS Bottle#: 3

Dil. Factor: 1.0000

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160330-51640.b\U25857.D

Injection Date: 30-Mar-2016 05:44:30

Instrument ID: HP5973U

Lims ID: CCVIS

Client ID:

Operator ID: CAS

ALS Bottle#:

3

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: U-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

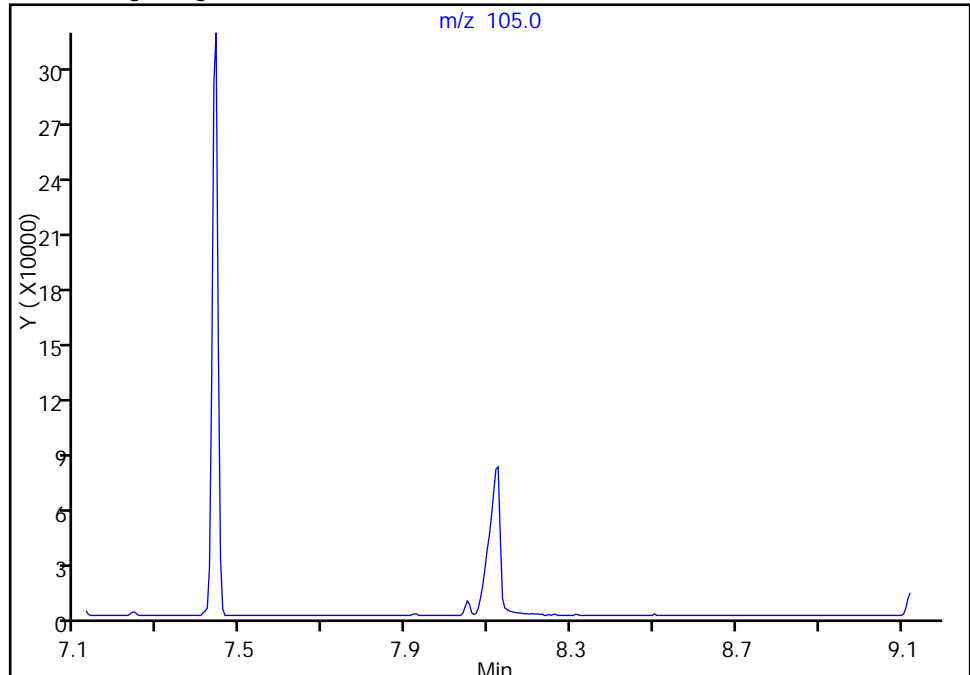
Detector: MS SCAN

119 Benzoic acid, CAS: 65-85-0

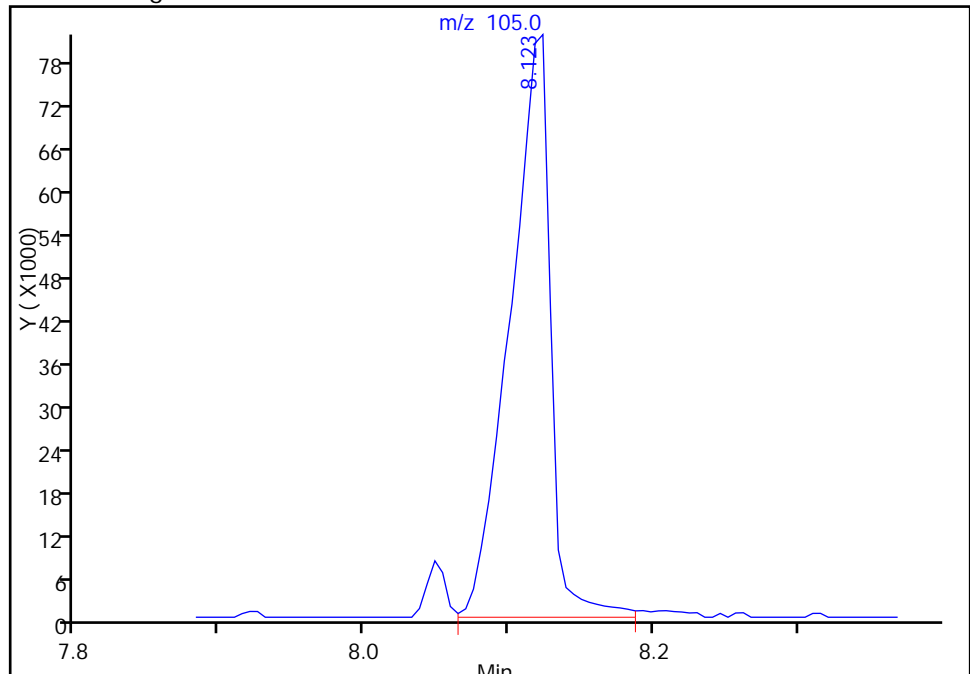
Not Detected

Expected RT: 8.12

Processing Integration Results



Manual Integration Results



Reviewer: sosinskic, 30-Mar-2016 06:34:05

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U25625.D
 Lims ID: DFTPP
 Client ID:
 Sample Type: DFTPP
 Inject. Date: 15-Mar-2016 11:02:30 ALS Bottle#: 2 Worklist Smp#: 2
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: DFTPP
 Misc. Info.: DFTPP
 Operator ID: MKP Instrument ID: HP5973U
 Method: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U-8270.m
 Limit Group: MB - 8270D ICAL
 Last Update: 15-Mar-2016 11:39:11 Calib Date: 04-Mar-2016 01:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973U\20160303-50977.b\U25338.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK033

First Level Reviewer: pagem

Date: 15-Mar-2016 11:39:11

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
108 Pentachlorophenol_T	266	11.890	11.890	0.000	84	47733	NR	NR	
114 DFTPP									
134 4,4'-DDE	246		13.548					ND	
130 Benzidine_T	184	13.279	13.279	0.000	98	259112	NR	NR	
137 4,4'-DDD	235		13.730					ND	
141 4,4'-DDT	235	14.026	14.026	0.000	95	137239	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

MB_DFTPP_WRK_00271

Amount Added: 1.00

Units: mL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U25625.D

Injection Date: 15-Mar-2016 11:02:30

Instrument ID: HP5973U

Lims ID: DFTPP

Client ID:

Operator ID: MKP

ALS Bottle#: 2 Worklist Smp#: 2

Injection Vol: 1.0 ul

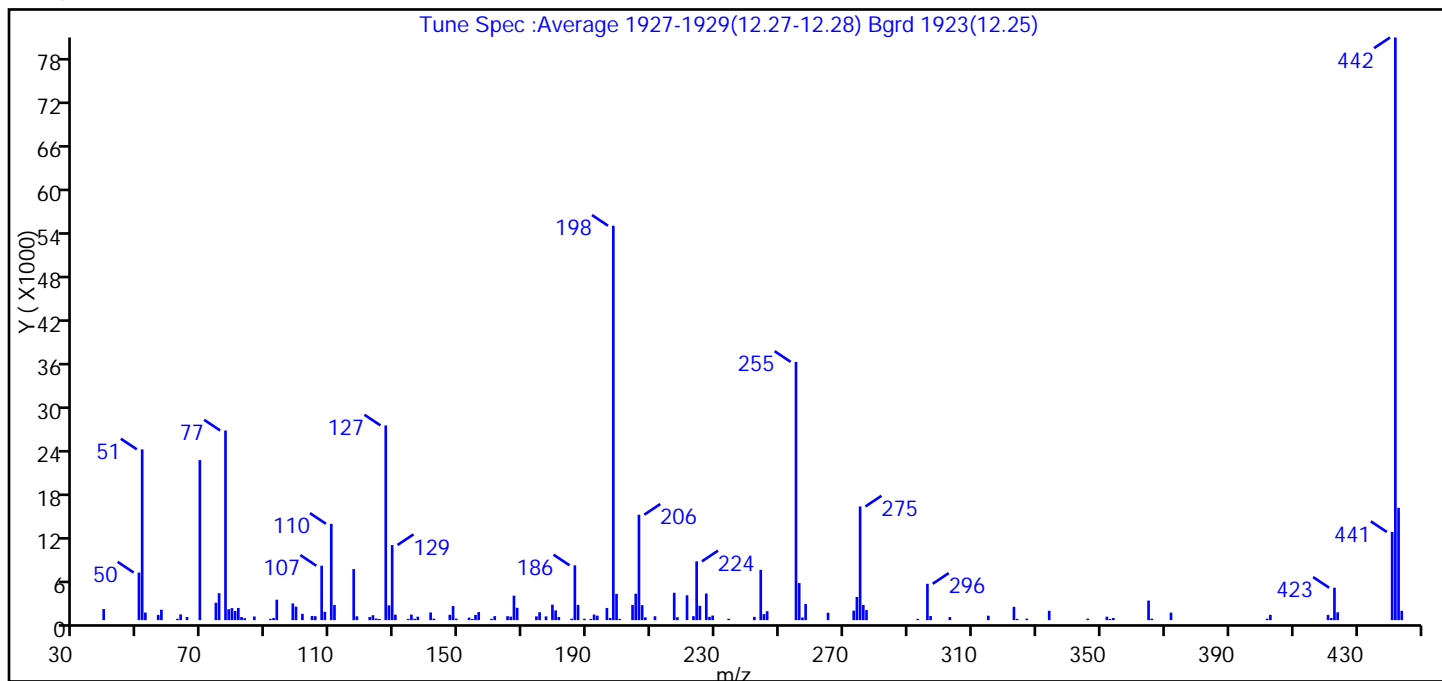
Dil. Factor: 1.0000

Method: U-8270

Limit Group: MB - 8270D ICAL

Tune Method: DFTPP Method 8270D, BP 198

114 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >50% of 442	100.0 (67.7)
51	10-80% of the base peak	43.3
68	<2% of mass 69	0.0 (0.0)
69	Present	40.6
70	<2% of mass 69	0.0 (0.0)
127	10-80% of the base peak	49.4
197	<2% of mass 198	0.5
199	5-9% of mass 198	6.7
275	10-60% of the base peak	28.8
365	>1% of mass 198	5.0
441	present but <24% of mass 442	22.3 (15.1)
442	base peak, or >50% of 198	147.7
443	15-24% of mass 442	28.5 (19.3)

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U25625.D\U-8270.rslt\spectra.d
Injection Date: 15-Mar-2016 11:02:30
Spectrum: Tune Spec :Average 1927-1929(12.27-12.28) Bgrd 1923(12.25)
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 135

m/z	Y	m/z	Y	m/z	Y	m/z	Y
39.00	1530	122.00	442	186.00	7552	258.00	2215
50.00	6560	123.00	677	187.00	2109	265.00	1024
51.00	23528	124.00	224	189.00	193	273.00	1311
52.00	1046	125.00	171	191.00	172	274.00	3191
56.00	724	127.00	26832	192.00	771	275.00	15661
57.00	1441	128.00	2042	193.00	619	276.00	2087
62.00	183	129.00	10351	196.00	1679	277.00	1388
63.00	796	130.00	752	197.00	287	293.00	176
65.00	423	134.00	173	198.00	54344	296.00	5012
69.00	22048	135.00	767	199.00	3620	297.00	563
74.00	2398	136.00	187	200.00	168	303.00	428
75.00	3710	137.00	476	204.00	2099	315.00	614
77.00	26128	141.00	1065	205.00	3646	323.00	1837
78.00	1504	142.00	206	206.00	14528	324.00	178
79.00	1660	147.00	733	207.00	2068	327.00	206
80.00	1266	148.00	1937	208.00	393	334.00	1290
81.00	1679	149.00	206	211.00	534	346.00	201
82.00	433	153.00	352	217.00	3775	352.00	483
83.00	263	154.00	170	218.00	405	353.00	167
86.00	505	155.00	727	221.00	3428	354.00	296
91.00	189	156.00	1114	223.00	548	365.00	2697
92.00	287	160.00	187	224.00	8105	366.00	202
93.00	2818	161.00	549	225.00	1976	372.00	1044
98.00	2298	165.00	546	227.00	3665	402.00	206
99.00	1862	166.00	481	228.00	462	403.00	733
101.00	870	167.00	3374	229.00	632	421.00	727
104.00	574	168.00	1702	234.00	190	422.00	282
105.00	545	174.00	527	242.00	455	423.00	4464
107.00	7499	175.00	1088	244.00	6926	424.00	1082
108.00	1143	177.00	523	245.00	834	441.00	12145
110.00	13275	179.00	2138	246.00	1227	442.00	80280
111.00	2089	180.00	1342	255.00	35584	443.00	15470
117.00	7035	181.00	436	256.00	5108	444.00	1288

Report Date: 15-Mar-2016 11:39:13

Chrom Revision: 2.2 02-Dec-2015 11:51:48

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U25625.D\U-8270.rslt\spectra.d

Injection Date: 15-Mar-2016 11:02:30

Spectrum: Tune Spec :Average 1927-1929(12.27-12.28) Bgrd 1923(12.25)

Base Peak: 442.00

Minimum % Base Peak: 0

Number of Points: 135

m/z	Y	m/z	Y	m/z	Y	m/z	Y
118.00	532	185.00	201	257.00	368		

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U25625.D
Injection Date: 15-Mar-2016 11:02:30 Instrument ID: HP5973U
Lims ID: DFTPP
Client ID:
Operator ID: MKP ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: U-8270 Limit Group: MB - 8270D ICAL

141 4,4'-DDT, Detector: MS SCAN

SW-846 Method

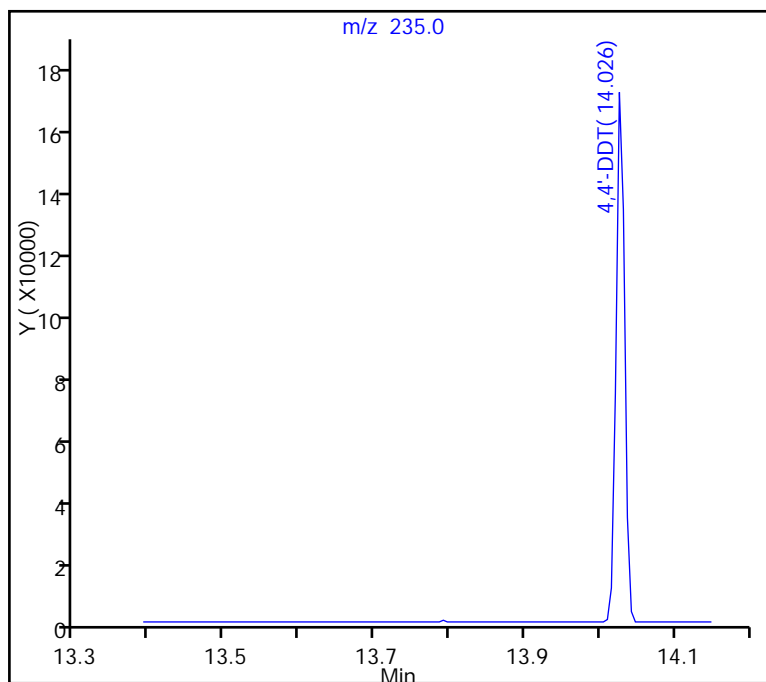
%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

141 4,4'-DDT, Area = 137239

137 4,4'-DDD, Area = 0

134 4,4'-DDE, Area = 0

%Breakdown: 0.00%, Max Limit: 20.00%
Passed



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U25625.D

Injection Date: 15-Mar-2016 11:02:30

Instrument ID: HP5973U

Lims ID: DFTPP

Client ID:

Operator ID: MKP

ALS Bottle#: 2 Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: U-8270

Limit Group: MB - 8270D ICAL

130 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =

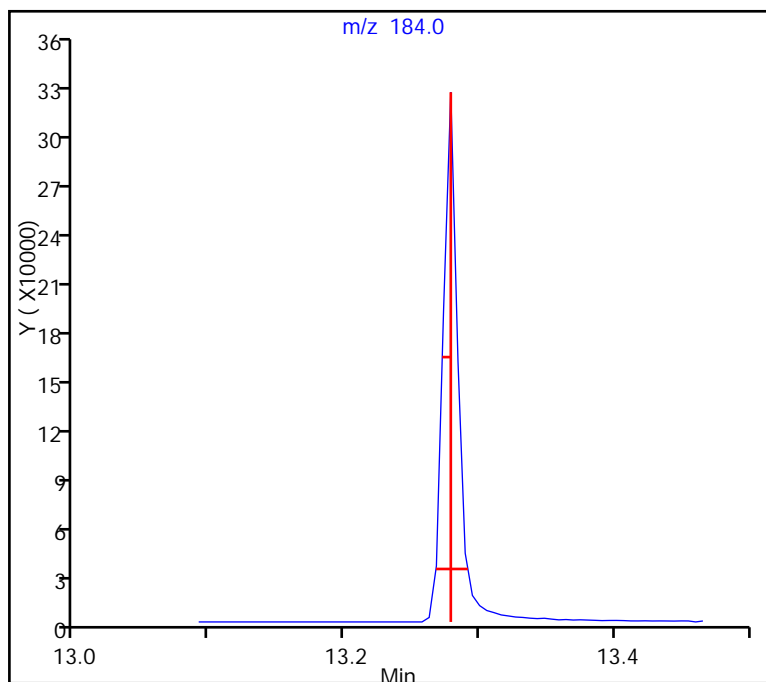
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.013 (min.)

Front Width = 0.011 (min.)

Tailing Factor = 1.2, Max. Tailing < 2.00

Passed



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U25625.D

Injection Date: 15-Mar-2016 11:02:30

Instrument ID: HP5973U

Lims ID: DFTPP

Client ID:

Operator ID: MKP

ALS Bottle#: 2 Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: U-8270

Limit Group: MB - 8270D ICAL

108 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =

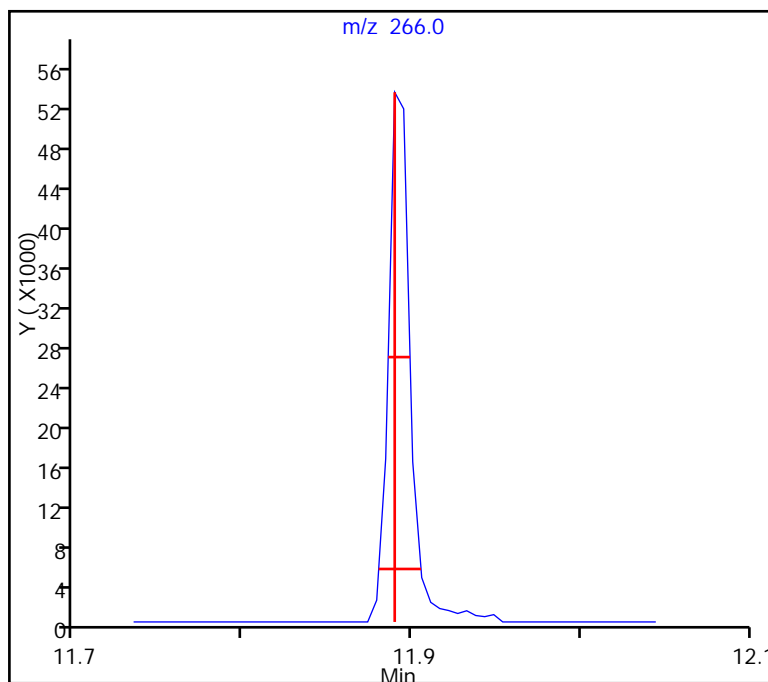
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.016 (min.)

Front Width = 0.010 (min.)

Tailing Factor = 1.6, Max. Tailing < 2.00

Passed



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160330-51640.b\U25856.D
 Lims ID: DFTPP
 Client ID:
 Sample Type: DFTPP
 Inject. Date: 30-Mar-2016 05:17:30 ALS Bottle#: 2 Worklist Smp#: 2
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: dftpp
 Misc. Info.: 480-97201-A-1-A
 Operator ID: CAS Instrument ID: HP5973U
 Method: \\ChromNA\Buffalo\ChromData\HP5973U\20160330-51640.b\U-8270.m
 Limit Group: MB - 8270D ICAL
 Last Update: 30-Mar-2016 05:39:44 Calib Date: 15-Mar-2016 21:31:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U25648.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK005

First Level Reviewer: sosinskic

Date: 30-Mar-2016 05:39:44

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
108 Pentachlorophenol_T	266	11.884	11.884	0.000	94	59796	NR	NR	
114 DFTPP									
130 Benzidine_T	184	13.273	13.273	0.000	99	462243	NR	NR	
134 4,4'-DDE	246		13.548					ND	
137 4,4'-DDD	235		13.781					ND	
141 4,4'-DDT	235	14.021	14.021	0.000	99	249351	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

MB_DFTPP_WRK_00271

Amount Added: 1.00

Units: mL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160330-51640.b\U25856.D

Injection Date: 30-Mar-2016 05:17:30

Instrument ID: HP5973U

Lims ID: DFTPP

Client ID:

Operator ID: CAS

ALS Bottle#: 2 Worklist Smp#: 2

Injection Vol: 1.0 ul

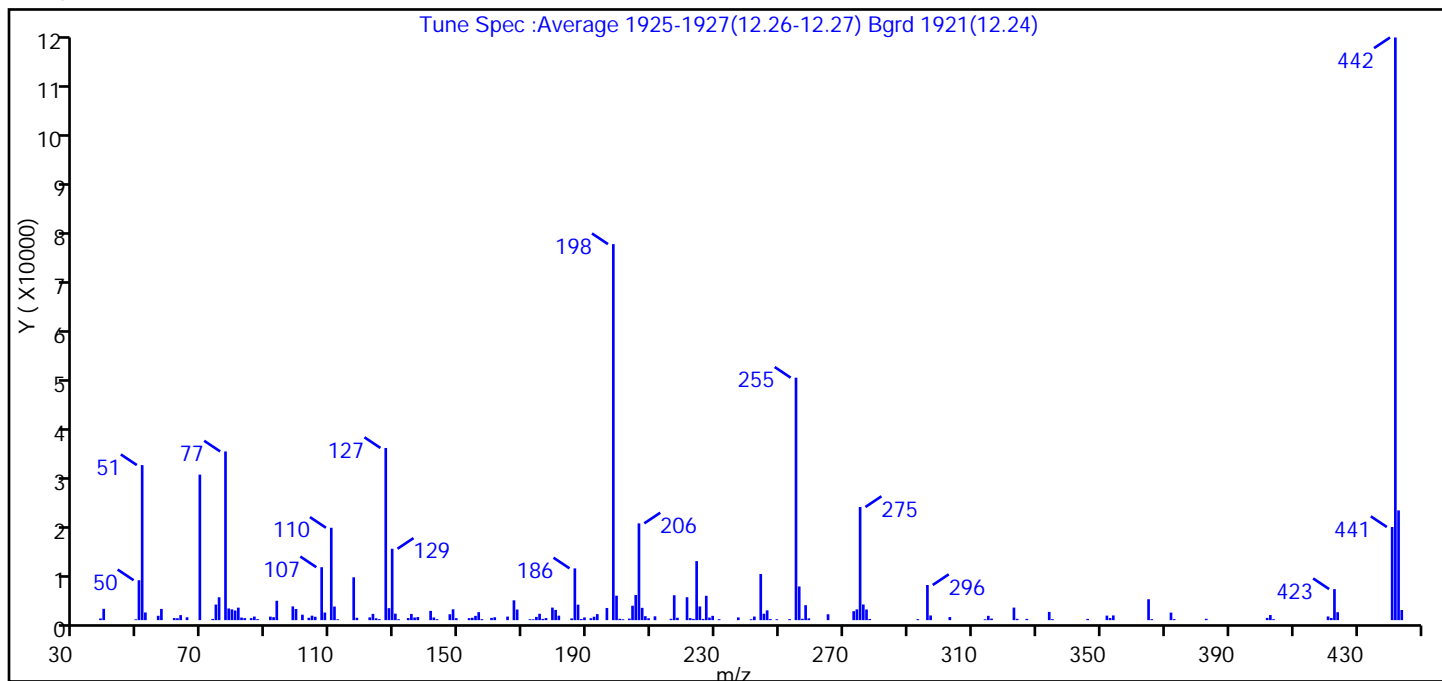
Dil. Factor: 1.0000

Method: U-8270

Limit Group: MB - 8270D ICAL

Tune Method: DFTPP Method 8270D, BP 198

114 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >50% of 442	100.0 (64.5)
51	10-80% of the base peak	41.2
68	<2% of mass 69	0.0 (0.0)
69	Present	38.7
70	<2% of mass 69	0.0 (0.0)
127	10-80% of the base peak	45.8
197	<2% of mass 198	0.0
199	5-9% of mass 198	6.5
275	10-60% of the base peak	30.1
365	>1% of mass 198	5.6
441	present but <24% of mass 442	24.8 (16.0)
442	base peak, or >50% of 198	154.9
443	15-24% of mass 442	29.2 (18.8)

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160330-51640.b\U25856.D\U-8270.rslt\spectra.d
Injection Date: 30-Mar-2016 05:17:30
Spectrum: Tune Spec :Average 1925-1927(12.26-12.27) Bgrd 1921(12.24)
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 167

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.00	345	122.00	563	189.00	553	258.00	3021
39.00	2289	123.00	1267	191.00	387	259.00	356
49.00	168	124.00	381	192.00	694	265.00	1190
50.00	8073	125.00	201	193.00	1225	273.00	1813
51.00	31360	127.00	34824	196.00	2463	274.00	2183
52.00	1555	128.00	2422	198.00	76056	275.00	22888
56.00	880	129.00	14437	199.00	4949	276.00	3168
57.00	2272	130.00	1313	200.00	274	277.00	2154
61.00	416	131.00	191	201.00	170	278.00	236
62.00	389	134.00	425	203.00	305	293.00	202
63.00	1015	135.00	1257	204.00	2916	296.00	7109
65.00	577	136.00	534	205.00	5078	297.00	943
69.00	29432	137.00	625	206.00	19576	303.00	628
73.00	243	141.00	1873	207.00	2488	314.00	176
74.00	3153	142.00	538	208.00	802	315.00	872
75.00	4626	143.00	197	209.00	382	316.00	319
77.00	34120	147.00	1192	211.00	775	323.00	2536
78.00	2360	148.00	2191	216.00	270	324.00	268
79.00	2183	149.00	397	217.00	5032	327.00	259
80.00	1952	153.00	404	218.00	482	334.00	1668
81.00	2527	154.00	477	221.00	4637	335.00	200
82.00	516	155.00	867	222.00	409	346.00	252
83.00	411	156.00	1619	223.00	260	352.00	914
85.00	403	157.00	205	224.00	11943	353.00	421
86.00	725	160.00	453	225.00	2769	354.00	955
87.00	206	161.00	578	226.00	248	365.00	4227
91.00	711	165.00	720	227.00	4922	366.00	205
92.00	596	167.00	4008	228.00	522	372.00	1526
93.00	3919	168.00	2145	229.00	868	373.00	205
98.00	2782	172.00	176	231.00	197	383.00	271
99.00	2260	173.00	167	237.00	555	402.00	451
101.00	1103	174.00	660	241.00	187	403.00	1034
103.00	477	175.00	1291	242.00	727	404.00	194

Report Date: 30-Mar-2016 05:39:45

Chrom Revision: 2.2 04-Mar-2016 14:36:24

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160330-51640.b\U25856.D\U-8270.rslt\spectra.d

Injection Date: 30-Mar-2016 05:17:30

Spectrum: Tune Spec :Average 1925-1927(12.26-12.27) Bgrd 1921(12.24)

Base Peak: 442.00

Minimum % Base Peak: 0

Number of Points: 167

m/z	Y	m/z	Y	m/z	Y	m/z	Y
104.00	901	176.00	252	244.00	9335	421.00	746
105.00	684	177.00	420	245.00	1299	422.00	443
107.00	10707	179.00	2536	246.00	1976	423.00	6281
108.00	1535	180.00	2069	247.00	222	424.00	1606
110.00	18688	181.00	909	249.00	182	441.00	18840
111.00	2752	185.00	348	253.00	213	442.00	117848
112.00	175	186.00	10472	255.00	49040	443.00	22200
117.00	8664	187.00	3133	256.00	6810	444.00	2053
118.00	480	188.00	226	257.00	279		

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160330-51640.b\U25856.D
Injection Date: 30-Mar-2016 05:17:30 Instrument ID: HP5973U
Lims ID: DFTPP
Client ID:
Operator ID: CAS ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: U-8270 Limit Group: MB - 8270D ICAL

141 4,4'-DDT, Detector: MS SCAN

SW-846 Method

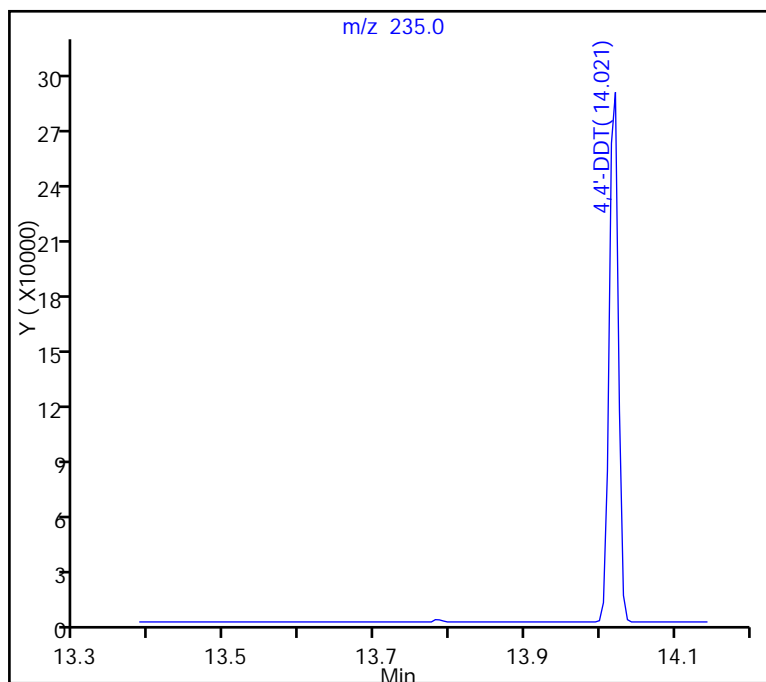
%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

141 4,4'-DDT, Area = 249351

137 4,4'-DDD, Area = 0

134 4,4'-DDE, Area = 0

%Breakdown: 0.00%, Max Limit: 20.00%
Passed



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160330-51640.b\U25856.D
Injection Date: 30-Mar-2016 05:17:30 Instrument ID: HP5973U
Lims ID: DFTPP
Client ID:
Operator ID: CAS ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: U-8270 Limit Group: MB - 8270D ICAL

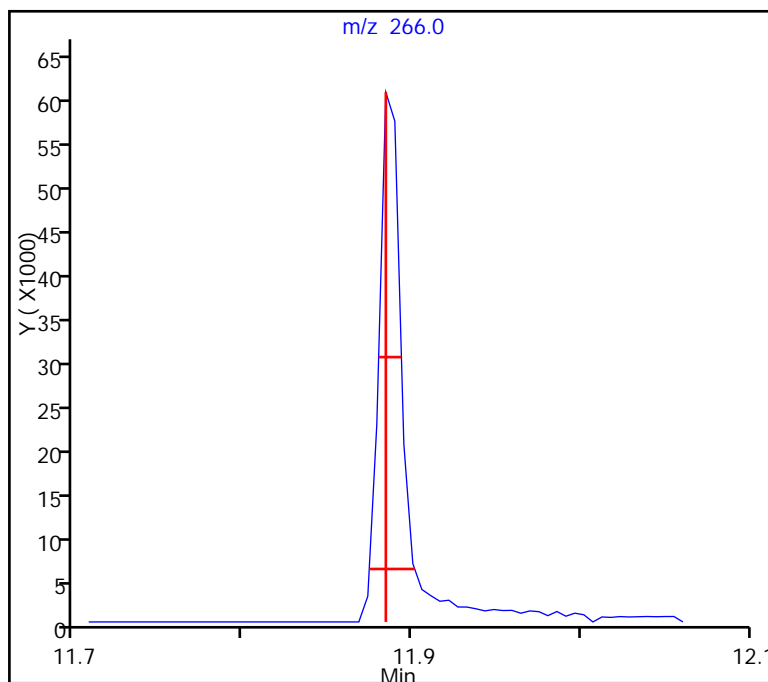
108 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.017 (min.)

Front Width = 0.010 (min.)

Tailing Factor = 1.7, Max. Tailing < 2.00
Passed



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160330-51640.b\U25856.D

Injection Date: 30-Mar-2016 05:17:30

Instrument ID: HP5973U

Lims ID: DFTPP

Client ID:

Operator ID: CAS

ALS Bottle#: 2 Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: U-8270

Limit Group: MB - 8270D ICAL

130 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =

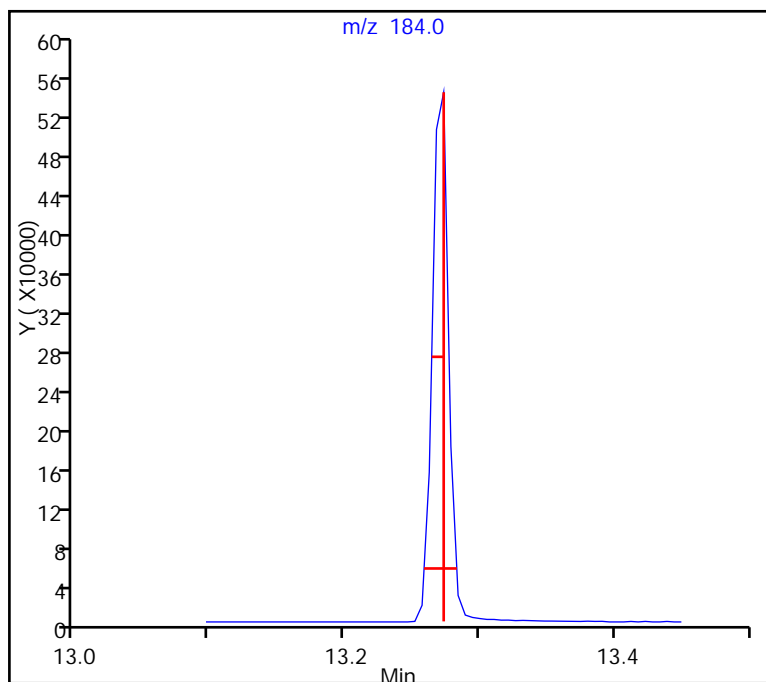
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.010 (min.)

Front Width = 0.015 (min.)

Tailing Factor = 0.7, Max. Tailing < 2.00

Passed



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>460-110715-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>MB 480-293139/1-A</u>
Matrix: <u>Solid</u>	Lab File ID: <u>U25863.D</u>
Analysis Method: <u>8270D</u>	Date Collected: _____
Extract. Method: <u>3546</u>	Date Extracted: <u>03/29/2016 16:12</u>
Sample wt/vol: <u>30.16(g)</u>	Date Analyzed: <u>03/30/2016 08:24</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>293176</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	170	U	170	25
95-94-3	1,2,4,5-Tetrachlorobenzene	170	U	170	29
108-60-1	2,2'-oxybis[1-chloropropane]	170	U	170	34
58-90-2	2,3,4,6-Tetrachlorophenol	170	U	170	35
95-95-4	2,4,5-Trichlorophenol	170	U	170	46
88-06-2	2,4,6-Trichlorophenol	170	U	170	34
120-83-2	2,4-Dichlorophenol	170	U	170	18
105-67-9	2,4-Dimethylphenol	170	U	170	41
51-28-5	2,4-Dinitrophenol	1700	U	1700	780
121-14-2	2,4-Dinitrotoluene	170	U	170	35
606-20-2	2,6-Dinitrotoluene	170	U	170	20
91-58-7	2-Chloronaphthalene	170	U	170	28
95-57-8	2-Chlorophenol	170	U	170	31
91-57-6	2-Methylnaphthalene	170	U	170	34
95-48-7	2-Methylphenol	170	U	170	20
88-74-4	2-Nitroaniline	330	U	330	25
88-75-5	2-Nitrophenol	170	U	170	48
91-94-1	3,3'-Dichlorobenzidine	330	U	330	200
99-09-2	3-Nitroaniline	330	U	330	47
534-52-1	4,6-Dinitro-2-methylphenol	330	U	330	170
101-55-3	4-Bromophenyl phenyl ether	170	U	170	24
59-50-7	4-Chloro-3-methylphenol	170	U	170	42
106-47-8	4-Chloroaniline	170	U	170	42
7005-72-3	4-Chlorophenyl phenyl ether	170	U	170	21
106-44-5	4-Methylphenol	330	U	330	20
100-01-6	4-Nitroaniline	330	U	330	89
100-02-7	4-Nitrophenol	330	U	330	120
83-32-9	Acenaphthene	170	U	170	25
208-96-8	Acenaphthylene	170	U	170	22
98-86-2	Acetophenone	170	U	170	23
120-12-7	Anthracene	170	U	170	42
1912-24-9	Atrazine	170	U	170	59
100-52-7	Benzaldehyde	170	U	170	130
56-55-3	Benzo[a]anthracene	170	U	170	17

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>460-110715-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>MB 480-293139/1-A</u>
Matrix: <u>Solid</u>	Lab File ID: <u>U25863.D</u>
Analysis Method: <u>8270D</u>	Date Collected: _____
Extract. Method: <u>3546</u>	Date Extracted: <u>03/29/2016 16:12</u>
Sample wt/vol: <u>30.16(g)</u>	Date Analyzed: <u>03/30/2016 08:24</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>293176</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
50-32-8	Benzo[a]pyrene	170	U	170	25
205-99-2	Benzo[b]fluoranthene	170	U	170	27
191-24-2	Benzo[g,h,i]perylene	170	U	170	18
207-08-9	Benzo[k]fluoranthene	170	U	170	22
111-91-1	Bis(2-chloroethoxy)methane	170	U	170	36
111-44-4	Bis(2-chloroethyl)ether	170	U	170	22
117-81-7	Bis(2-ethylhexyl) phthalate	170	U	170	58
85-68-7	Butyl benzyl phthalate	170	U	170	28
105-60-2	Caprolactam	170	U	170	51
86-74-8	Carbazole	170	U	170	20
218-01-9	Chrysene	170	U	170	38
53-70-3	Dibenz(a,h)anthracene	170	U	170	30
132-64-9	Dibenzofuran	170	U	170	20
84-66-2	Diethyl phthalate	170	U	170	22
131-11-3	Dimethyl phthalate	170	U	170	20
84-74-2	Di-n-butyl phthalate	170	U	170	29
117-84-0	Di-n-octyl phthalate	170	U	170	20
206-44-0	Fluoranthene	170	U	170	18
86-73-7	Fluorene	170	U	170	20
118-74-1	Hexachlorobenzene	170	U	170	23
87-68-3	Hexachlorobutadiene	170	U	170	25
77-47-4	Hexachlorocyclopentadiene	170	U	170	23
67-72-1	Hexachloroethane	170	U	170	22
193-39-5	Indeno[1,2,3-cd]pyrene	170	U	170	21
78-59-1	Isophorone	170	U	170	36
91-20-3	Naphthalene	170	U	170	22
98-95-3	Nitrobenzene	170	U	170	19
621-64-7	N-Nitrosodi-n-propylamine	170	U	170	29
86-30-6	N-Nitrosodiphenylamine	170	U	170	140
87-86-5	Pentachlorophenol	330	U	330	170
85-01-8	Phenanthrene	170	U	170	25
108-95-2	Phenol	170	U	170	26
129-00-0	Pyrene	170	U	170	20

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 460-110715-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: MB 480-293139/1-A
Matrix: Solid Lab File ID: U25863.D
Analysis Method: 8270D Date Collected: _____
Extract. Method: 3546 Date Extracted: 03/29/2016 16:12
Sample wt/vol: 30.16(g) Date Analyzed: 03/30/2016 08:24
Con. Extract Vol.: 1(mL) Dilution Factor: 1
Injection Volume: 1(uL) Level: (low/med) Low
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 293176 Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	54		39-146
321-60-8	2-Fluorobiphenyl	91		37-120
367-12-4	2-Fluorophenol (Surr)	69		18-120
4165-60-0	Nitrobenzene-d5 (Surr)	75		34-132
4165-62-2	Phenol-d5 (Surr)	79		11-120
1718-51-0	p-Terphenyl-d14 (Surr)	99		65-153

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160330-51640.b\U25863.D
 Lims ID: MB 480-293139/1-A
 Client ID:
 Sample Type: MB
 Inject. Date: 30-Mar-2016 08:24:30 ALS Bottle#: 9 Worklist Smp#: 9
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 480-0051640-009
 Misc. Info.: 480-97201-A-1-A
 Operator ID: CAS Instrument ID: HP5973U
 Method: \\ChromNA\Buffalo\ChromData\HP5973U\20160330-51640.b\U-8270.m
 Limit Group: MB - 8270D ICAL
 Last Update: 30-Mar-2016 13:44:50 Calib Date: 15-Mar-2016 21:31:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U25648.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK047

First Level Reviewer: richardsd

Date: 30-Mar-2016 12:13:59

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.986	6.980	0.006	96	147881	40.0	40.0	
* 2 Naphthalene-d8	136	8.497	8.497	0.000	100	557229	40.0	40.0	
* 3 Acenaphthene-d10	164	10.559	10.559	0.000	96	288687	40.0	40.0	
* 4 Phenanthrene-d10	188	12.071	12.071	0.000	97	451020	40.0	40.0	
* 5 Chrysene-d12	240	14.507	14.507	0.000	97	461311	40.0	40.0	
* 6 Perylene-d12	264	16.180	16.179	0.001	97	447126	40.0	40.0	
\$ 9 2-Fluorophenol	112	5.410	5.404	0.006	95	140911	40.0	27.6	
\$ 10 Phenol-d5	99	6.505	6.505	0.000	88	197362	40.0	31.7	
\$ 11 Nitrobenzene-d5	82	7.627	7.627	0.000	96	166851	40.0	30.1	
\$ 12 2-Fluorobiphenyl	172	9.764	9.763	0.001	100	348802	40.0	36.3	
\$ 13 2,4,6-Tribromophenol	330	11.388	11.388	0.000	91	34591	40.0	21.5	
\$ 14 p-Terphenyl-d14	244	13.498	13.498	0.000	100	401808	40.0	39.6	
22 N-Methylaniline	1		0.700					ND	
71 Chlorotoluene N.O.S	1		0.700					ND	
58 Chlorobenzotrifluoride N.O	1		0.700					ND	
33 o-Anisidine	1		0.700					ND	
41 2-Chlorotoluene	91		0.700					ND	
59 Tricresyl phosphate	1		0.700					ND	
15 Lidocaine	1		0.700					ND	
75 3-Chloropyridine	1		0.700					ND	
63 5-Ethyl-5-phenyl barbituri	1		0.700					ND	
68 4-Chloropyridine	1		0.700					ND	
48 2-Chloropyridine	1		0.700					ND	
80 1,4-Dioxane	88		3.107					ND	
81 N-Nitrosodimethylamine	42		3.540					ND	
82 Pyridine	52		3.636					ND	
248 Triethyl amine	86		3.980					ND	
83 2-Picoline	93		4.667					ND	
84 N-Nitrosomethylethylamine	88		4.774					ND	
31 Dimethylformamide	73		4.783					ND	
250 Acrylamide	71		5.094					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
85 Methyl methanesulfonate	80		5.153					ND	
86 N-Nitrosodiethylamine	102		5.671					ND	
87 Ethyl methanesulfonate	79		6.008					ND	
88 Benzaldehyde	77		6.457					ND	
89 Phenol	94		6.521					ND	
90 Aniline	93		6.579					ND	
91 Bis(2-chloroethyl)ether	93		6.628					ND	
92 Pentachloroethane	167		6.654					ND	
93 2-Chlorophenol	128		6.740					ND	
258 n-Decane	57		6.766					ND	
94 1,3-Dichlorobenzene	146		6.921					ND	
95 1,4-Dichlorobenzene	146		7.002					ND	
96 Benzyl alcohol	108		7.114					ND	
45 2-Aminopyridine	94		7.171					ND	
97 1,2-Dichlorobenzene	146		7.194					ND	
98 2-Methylphenol	108		7.242					ND	
99 2,2'-oxybis[1-chloropropan	45		7.274					ND	
249 Indene	115		7.295					ND	
100 N-Nitrosopyrrolidine	100		7.391					ND	
102 4-Methylphenol	108		7.413					ND	
101 N-Nitrosodi-n-propylamine	70		7.424					ND	
103 N-Nitrosomorpholine	56		7.434					ND	
104 Acetophenone	105		7.440					ND	
105 2-Toluidine	106		7.482					ND	
73 4-Methylbenzenamine	106		7.488					ND	
106 Hexachloroethane	117		7.600					ND	
107 Nitrobenzene	77		7.648					ND	
109 N-Nitrosopiperidine	114		7.819					ND	
110 Isophorone	82		7.920					ND	
46 2,4-Dichlorotoluene	125		7.942					ND	
51 2-Chloroaniline	127		7.984					ND	
111 2-Nitrophenol	139		8.033					ND	
112 2,4-Dimethylphenol	107		8.049					ND	
53 1,3,5-Trichlorobenzene	180		8.059					ND	
116 o,o',o"-Triethylphosphoro	198		8.118					ND	
119 Benzoic acid	105		8.123					ND	
113 Tetraethyl lead	237		8.134					ND	
115 Bis(2-chloroethoxy)methane	93		8.155					ND	
118 alpha,alpha-Dimethyl phene	58		8.300					ND	
117 2,4-Dichlorophenol	162		8.316					ND	
66 4-Chlorophenol	128		8.412					ND	
120 1,2,4-Trichlorobenzene	180		8.428					ND	
122 Alpha-Terpineol	59		8.503					ND	
121 Naphthalene	128		8.524					ND	
123 4-Chloroaniline	127		8.561					ND	
124 2,6-Dichlorophenol	162		8.583					ND	
125 Hexachloropropene	213		8.636					ND	
126 Hexachlorobutadiene	225		8.668					ND	
32 Quinoline	129		8.909					ND	
129 N-Nitrosodi-n-butylamine	84		8.941					ND	
127 Caprolactam	113		8.941					ND	
128 p-Phenylene diamine	108		8.967					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
131 4-Chloro-3-methylphenol	107		9.122					ND	
132 Safrole, Total	162		9.213					ND	
259 2,4,5-Trichlorotoluene	159		9.299					ND	
133 2-Methylnaphthalene	142		9.347					ND	
135 Phthalic anhydride	104		9.389					ND	
251 n,n'-Dimethylaniline	120		9.404					ND	
252 1-Methylnaphthalene	142		9.464					ND	
136 Hexachlorocyclopentadiene	237		9.544					ND	
138 1,2,4,5-Tetrachlorobenzene	216		9.550					ND	
262 1,2,3,4 -Tetrachlorobenzen	216		9.550					ND	
261 2,3-Dichlorobenzenamine	161		9.673					ND	
139 2,4,6-Trichlorophenol	196		9.673					ND	
140 2,4,5-Trichlorophenol	196		9.721					ND	
142 Isosafrole	162		9.833					ND	
144 1,1'-Biphenyl	154		9.886					ND	
143 2-Chloronaphthalene	162		9.929					ND	
254 1-Chloronaphthalene	162		9.956					ND	
145 2-Nitroaniline	65		10.020					ND	
42 1,4-Naphthoquinone	158		10.111					ND	
30 Dicyclohexylamine	138		10.127					ND	
146 1,4-Dinitrobenzene	168		10.159					ND	
147 Dimethyl phthalate	163		10.207					ND	
50 1,3-Dinitrobenzene	168		10.250					ND	
148 2,6-Dinitrotoluene	165		10.282					ND	
149 Acenaphthylene	152		10.405					ND	
150 3-Nitroaniline	138		10.479					ND	
152 2,4-Dinitrophenol	184		10.592					ND	
151 Acenaphthene	153		10.592					ND	
153 4-Nitrophenol	109		10.645					ND	
154 2,4-Dinitrotoluene	165		10.730					ND	
156 Pentachlorobenzene	250		10.741					ND	
155 Dibenzofuran	168		10.778					ND	
157 1-Naphthylamine	143		10.853					ND	
265 2,3,5,6-Tetrachlorophenol	232		10.858					ND	
158 2,3,4,6-Tetrachlorophenol	232		10.901					ND	
159 2-Naphthylamine	143		10.933					ND	
160 Diethyl phthalate	149		10.965					ND	
257 Hexadecane	57		10.976					ND	
163 Thionazin	97		11.056					ND	
162 4-Chlorophenyl phenyl ethe	204		11.115					ND	
165 N-Nitro-o-toluidine	152		11.126					ND	
164 4-Nitroaniline	138		11.131					ND	
161 Fluorene	166		11.136					ND	
29 Tributyl phosphate	99		11.163					ND	
166 4,6-Dinitro-2-methylphenol	198		11.163					ND	
167 N-Nitrosodiphenylamine	169		11.233					ND	
169 Diphenylamine	169		11.233					ND	
168 1,2-Diphenylhydrazine	77		11.281					ND	
170 Azobenzene	77		11.281					ND	
171 Sulfotepp	322		11.361					ND	
172 1,3,5-Trinitrobenzene	213		11.462					ND	
175 Phenacetin	108		11.516					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
173 Diallate	43		11.516					ND	
174 Phorate	75		11.521					ND	
176 4-Bromophenyl phenyl ether	248		11.612					ND	
178 Dimethoate	87		11.687					ND	
179 Simazine	201		11.708					ND	
177 Hexachlorobenzene	284		11.708					ND	
180 Atrazine	200		11.735					ND	
182 4-Aminobiphenyl	169		11.863					ND	
181 Pentachlorophenol	266		11.890					ND	
263 n-Octadecane	57		11.890					ND	
184 Pronamide	173		11.900					ND	
183 Pentachloronitrobenzene	237		11.906					ND	
187 Disulfoton	88		12.023					ND	
186 Dinoseb	211		12.034					ND	
185 Phenanthrene	178		12.098					ND	
188 Anthracene	178		12.146					ND	
189 Carbazole	167		12.280					ND	
190 Methyl parathion	109		12.381					ND	
191 Alachlor	160		12.381					ND	
192 Di-n-butyl phthalate	149		12.541					ND	
264 2-Methylanthracene	192		12.611					ND	
193 Ethyl Parathion	97		12.728					ND	
194 4-Nitroquinoline-1-oxide	190		12.792					ND	
195 Methapyrilene	58		12.830					ND	
62 Anthraquinone	180		12.830					ND	
196 Isodrin	193		13.065					ND	
197 Fluoranthene	202		13.193					ND	
37 1-Hydroxyanthraquinone	224		13.214					ND	
198 Benzidine	184		13.268					ND	
199 Pyrene	202		13.407					ND	
200 Aramite, Total	185		13.498					ND	
201 p-Dimethylamino azobenzene	120		13.615					ND	
202 Chlorobenzilate	139		13.642					ND	
34 1,4-Dihydroxyanthraquinone	240		13.642					ND	
204 Famphur	218		13.861					ND	
64 9-Octadecenamide	72		13.877					ND	
205 Butyl benzyl phthalate	149		13.893					ND	
203 3,3'-Dimethylbenzidine	212		13.914					ND	
206 Kepone	272		14.032					ND	
207 2-Acetylaminofluorene	181		14.155					ND	
210 Bis(2-ethylhexyl) phthalat	149		14.379					ND	
247 4,4'-Methylene bis(2-chlor	231		14.416					ND	
208 3,3'-Dichlorobenzidine	252		14.427					ND	
209 Benzo[a]anthracene	228		14.497					ND	
211 Chrysene	228		14.534					ND	
255 6-Methylchrysene	242		14.988					ND	
212 Di-n-octyl phthalate	149		15.004					ND	
215 7,12-Dimethylbenz(a)anthra	256		15.640					ND	
213 Benzo[b]fluoranthene	252		15.672					ND	
214 Benzo[k]fluoranthene	252		15.704					ND	
216 Hexachlorophene	196		15.720					ND	
260 Benzo[e]pyrene	252		16.041					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
217 Benzo[a]pyrene	252		16.110					ND	
218 3-Methylcholanthrene	252		16.564					ND	
237 Dibenz[a,h]acridine	279		17.424					ND	
220 Dibenz(a,h)anthracene	278		17.873					ND	
219 Indeno[1,2,3-cd]pyrene	276		17.884					ND	
221 Benzo[g,h,i]perylene	276		18.407					ND	
72 4-Chlorobenzotrifluoride	1		0.700					ND	
269 2,4-Dichlorotoluene TIC	1		0.700					ND	
277 4-Chloro-3-nitro-alpha,alp	1		0.700					ND	
283 2,4'-DDT	1		0.700					ND	
21 2-Chlorobenzotrifluoride	1		0.700					ND	
239 Benzo[j]fluoranthene	1		0.700					ND	
234 7H-Dibenzo[c,g]carbazole	1		0.700					ND	
267 4-Chlorobenzotrifluoride T	1		0.700					ND	
266 2,6-Dichlorotoluene TIC	1		0.700					ND	
268 2-Chlorobenzotrifluoride T	1		0.700					ND	
40 1-Methylcyclopentanol	1		0.700					ND	
280 Photomirex TIC	1		0.700					ND	
246 Phenylmercaptan	110		0.700					ND	
76 3-Chlorobenzotrifluoride	1		0.700					ND	
17 CN-500	1		0.700					ND	
23 n,n'-Dimethylacetamide	1		0.700					ND	
274 Phenyl ether	1		0.700					ND	
227 CBF-500	1		0.700					ND	
225 CBF-400	1		0.700					ND	
74 3-Chlorotoluene	1		0.700					ND	
56 Benzeneacetic acid (TIC)	1		0.700					ND	
281 2,4'-DDE	1		0.700					ND	
67 4-Chlorotoluene	91		0.700					ND	
241 2,4-Toluene diamine	1		0.700					ND	
52 2,6-Dichlorotoluene	1		0.700					ND	
27 Pendimethalin	1		0.700					ND	
229 1,3-phenylenediamine TIC	1		0.700					ND	
224 5-Methyl-o-Anisidine TIC	1		0.700					ND	
236 Dibenz[a,j]acridine	279		0.700					ND	
238 Dibenzo[a,h]pyrene	1		0.700					ND	
70 Phenylacetic Acid	1		0.700					ND	
54 p-Fluoroaniline	1		0.700					ND	
49 2,6-Dichloropyridine	1		0.700					ND	
242 alpha,alpha-Dimethyl phene	1		0.700					ND	
19 NVF-400	1		0.700					ND	
24 Dibenzo[a,e]pyrene	1		0.700					ND	
244 Hexamethyldisiloxane TIC	1		0.700					ND	
245 1-Bromopropane	1		0.700					ND	
57 5-Methyl-o-Anisidine	1		0.700					ND	
230 2,4-Xylidine TIC	1		0.700					ND	
226 Tris(2,3-dibromopropyl)pho	1		0.700					ND	
36 2,3-Dichlorophenol	1		0.700					ND	
273 4-tert-Octylphenol	1		0.700					ND	
240 Dibenz(a,i)pyrene	1		0.700					ND	
18 CU-600	1		0.700					ND	
61 CAG-800	1		0.700					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
235 Octachlorostyrene	1		0.700					ND	
270 3-Chlorobenzotrifluoride T	1		0.700					ND	
228 o-Anisidine TIC	1		0.700					ND	
60 Benzeneacetonitrile	1		0.700					ND	
282 2,4'-DDD	235		0.700					ND	
272 Benzophenone	1		0.700					ND	
279 1,4-Dioxane TIC	1		0.700					ND	
232 4,4'-Methylene bis(2-chlor	1		0.700					ND	
243 Tetramethyl lead TIC	1		0.700					ND	
275 1,2,3-Trimethylbenzene	105		0.700					ND	
S 222 Total Cresols	1		0.700					ND	
S 77 3 & 4 Methylphenol	108		0.700					ND	
S 78 3-Methylphenol	1		0.700					ND	
S 233 EPH Adjustment 1	1		0.700					ND	
T 25 Prometryn (TIC)	1		0.700					ND	
T 65 Benefin (TIC)	1		0.700					ND	
T 28 Pendimethalin (TIC)	1		0.700					ND	
T 26 trans Azobenzene (TIC)	77		0.700					ND	
T 38 1-Methylnaphthalene (TIC)	142		0.700					ND	
T 231 2,3,7,8-TCDD	322		10.700					ND	

Reagents:

MB_INTSTD_STK_00019

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160330-51640.b\U25863.D

Injection Date: 30-Mar-2016 08:24:30

Instrument ID: HP5973U

Operator ID: CAS

Lims ID: MB 480-293139/1-A

Worklist Smp#: 9

Client ID:

Injection Vol: 1.0 ul

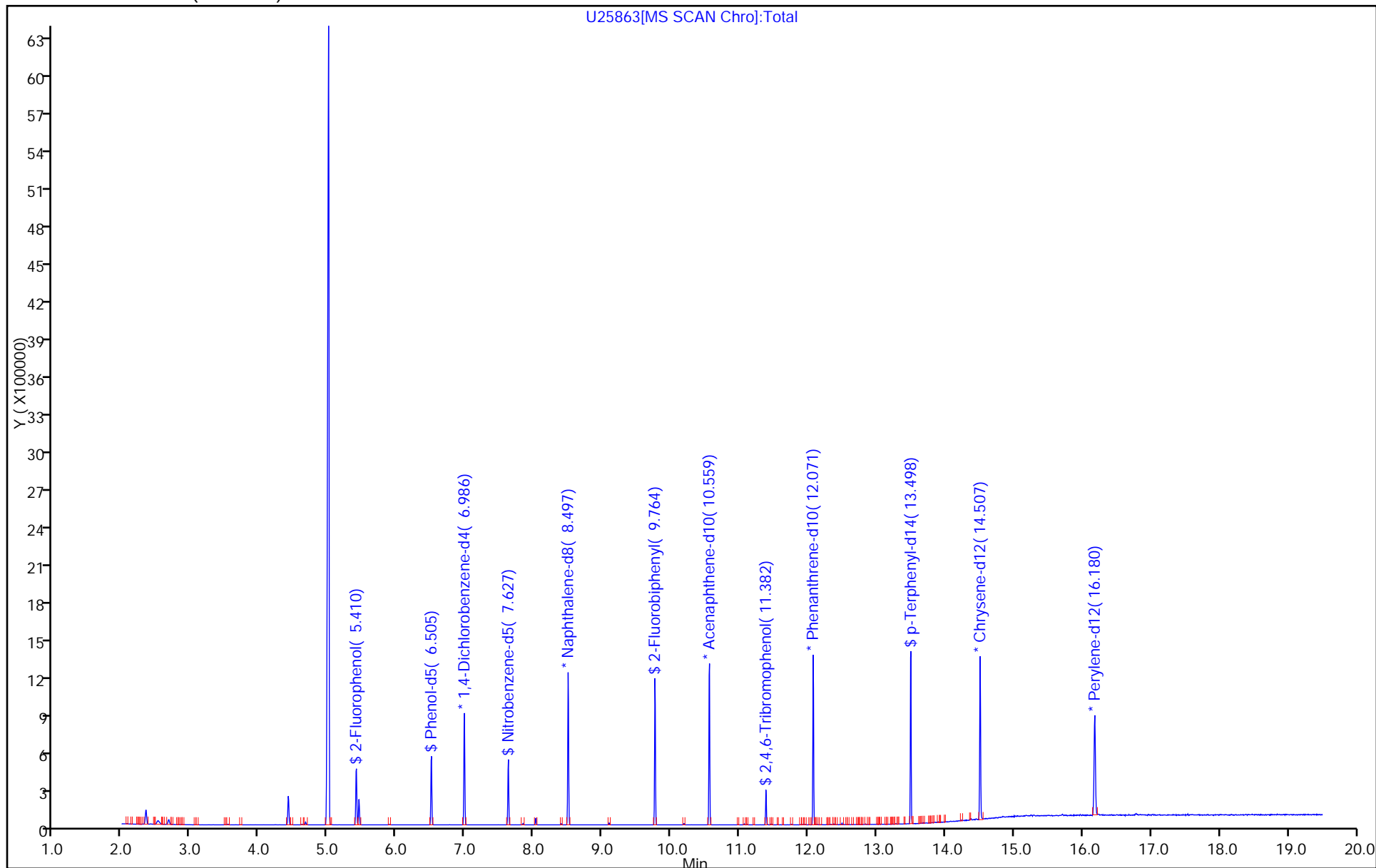
Dil. Factor: 1.0000

ALS Bottle#: 9

Method: U-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>460-110715-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>LCS 480-293139/2-A</u>
Matrix: <u>Solid</u>	Lab File ID: <u>U25864.D</u>
Analysis Method: <u>8270D</u>	Date Collected: _____
Extract. Method: <u>3546</u>	Date Extracted: <u>03/29/2016 16:12</u>
Sample wt/vol: <u>30.88(g)</u>	Date Analyzed: <u>03/30/2016 08:51</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>293176</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	1210		170	24
95-94-3	1,2,4,5-Tetrachlorobenzene	1200		170	28
108-60-1	2,2'-oxybis[1-chloropropane]	1020		170	33
58-90-2	2,3,4,6-Tetrachlorophenol	987		170	34
95-95-4	2,4,5-Trichlorophenol	1000		170	45
88-06-2	2,4,6-Trichlorophenol	1090		170	33
120-83-2	2,4-Dichlorophenol	1020		170	17
105-67-9	2,4-Dimethylphenol	1120		170	40
51-28-5	2,4-Dinitrophenol	872	J	1600	760
121-14-2	2,4-Dinitrotoluene	1250		170	34
606-20-2	2,6-Dinitrotoluene	1300		170	19
91-58-7	2-Chloronaphthalene	1180		170	27
95-57-8	2-Chlorophenol	1000		170	30
91-57-6	2-Methylnaphthalene	1130		170	33
95-48-7	2-Methylphenol	1080		170	19
88-74-4	2-Nitroaniline	1190		320	24
88-75-5	2-Nitrophenol	1070		170	47
91-94-1	3,3'-Dichlorobenzidine	2330		320	190
99-09-2	3-Nitroaniline	1030		320	46
534-52-1	4,6-Dinitro-2-methylphenol	1750		320	170
101-55-3	4-Bromophenyl phenyl ether	1330		170	23
59-50-7	4-Chloro-3-methylphenol	1140		170	41
106-47-8	4-Chloroaniline	801		170	41
7005-72-3	4-Chlorophenyl phenyl ether	1240		170	20
106-44-5	4-Methylphenol	1080		320	19
100-01-6	4-Nitroaniline	1160		320	86
100-02-7	4-Nitrophenol	1870		320	120
83-32-9	Acenaphthene	1210		170	24
208-96-8	Acenaphthylene	1190		170	21
98-86-2	Acetophenone	1040		170	22
120-12-7	Anthracene	1260		170	41
1912-24-9	Atrazine	2760		170	57
100-52-7	Benzaldehyde	4600		170	130
56-55-3	Benzo[a]anthracene	1330		170	17

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>460-110715-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>LCS 480-293139/2-A</u>
Matrix: <u>Solid</u>	Lab File ID: <u>U25864.D</u>
Analysis Method: <u>8270D</u>	Date Collected: _____
Extract. Method: <u>3546</u>	Date Extracted: <u>03/29/2016 16:12</u>
Sample wt/vol: <u>30.88(g)</u>	Date Analyzed: <u>03/30/2016 08:51</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>293176</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
50-32-8	Benzo[a]pyrene	1350		170	24
205-99-2	Benzo[b]fluoranthene	1370		170	26
191-24-2	Benzo[g,h,i]perylene	1450		170	17
207-08-9	Benzo[k]fluoranthene	1330		170	21
111-91-1	Bis(2-chloroethoxy)methane	1130		170	35
111-44-4	Bis(2-chloroethyl)ether	1050		170	21
117-81-7	Bis(2-ethylhexyl) phthalate	1400		170	56
85-68-7	Butyl benzyl phthalate	1330		170	27
105-60-2	Caprolactam	1780		170	50
86-74-8	Carbazole	1260		170	19
218-01-9	Chrysene	1330		170	37
53-70-3	Dibenz(a,h)anthracene	1360		170	29
132-64-9	Dibenzofuran	1210		170	19
84-66-2	Diethyl phthalate	1240		170	21
131-11-3	Dimethyl phthalate	1230		170	19
84-74-2	Di-n-butyl phthalate	1290		170	28
117-84-0	Di-n-octyl phthalate	1270		170	19
206-44-0	Fluoranthene	1300		170	17
86-73-7	Fluorene	1220		170	19
118-74-1	Hexachlorobenzene	1360		170	22
87-68-3	Hexachlorobutadiene	1090		170	24
77-47-4	Hexachlorocyclopentadiene	1030		170	22
67-72-1	Hexachloroethane	953		170	21
193-39-5	Indeno[1,2,3-cd]pyrene	1360		170	20
78-59-1	Isophorone	1150		170	35
91-20-3	Naphthalene	1090		170	21
98-95-3	Nitrobenzene	1110		170	18
621-64-7	N-Nitrosodi-n-propylamine	1070		170	28
86-30-6	N-Nitrosodiphenylamine	1280		170	130
87-86-5	Pentachlorophenol	1390		320	170
85-01-8	Phenanthrene	1260		170	24
108-95-2	Phenol	1050		170	25
129-00-0	Pyrene	1370		170	19

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 460-110715-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 480-293139/2-A
 Matrix: Solid Lab File ID: U25864.D
 Analysis Method: 8270D Date Collected: _____
 Extract. Method: 3546 Date Extracted: 03/29/2016 16:12
 Sample wt/vol: 30.88(g) Date Analyzed: 03/30/2016 08:51
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 293176 Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	72		39-146
321-60-8	2-Fluorobiphenyl	77		37-120
367-12-4	2-Fluorophenol (Surr)	61		18-120
4165-60-0	Nitrobenzene-d5 (Surr)	65		34-132
4165-62-2	Phenol-d5 (Surr)	67		11-120
1718-51-0	p-Terphenyl-d14 (Surr)	86		65-153

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160330-51640.b\U25864.D
 Lims ID: LCS 480-293139/2-A
 Client ID:
 Sample Type: LCS
 Inject. Date: 30-Mar-2016 08:51:30 ALS Bottle#: 10 Worklist Smp#: 10
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 480-0051640-010
 Misc. Info.: 480-97201-A-1-A
 Operator ID: CAS Instrument ID: HP5973U
 Method: \\ChromNA\Buffalo\ChromData\HP5973U\20160330-51640.b\U-8270.m
 Limit Group: MB - 8270D ICAL
 Last Update: 30-Mar-2016 13:44:50 Calib Date: 15-Mar-2016 21:31:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U25648.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK047

First Level Reviewer: richardsd

Date: 30-Mar-2016 12:15:05

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.985	6.980	0.005	95	142278	40.0	40.0	
* 2 Naphthalene-d8	136	8.497	8.497	0.000	99	532669	40.0	40.0	
* 3 Acenaphthene-d10	164	10.559	10.559	0.000	97	274919	40.0	40.0	
* 4 Phenanthrene-d10	188	12.071	12.071	0.000	98	432564	40.0	40.0	
* 5 Chrysene-d12	240	14.507	14.507	0.000	97	449556	40.0	40.0	
* 6 Perylene-d12	264	16.179	16.179	0.000	97	428465	40.0	40.0	
\$ 9 2-Fluorophenol	112	5.410	5.404	0.006	95	120713	40.0	24.5	
\$ 10 Phenol-d5	99	6.505	6.505	0.000	88	160642	40.0	26.8	
\$ 11 Nitrobenzene-d5	82	7.627	7.627	0.000	96	138358	40.0	26.1	
\$ 12 2-Fluorobiphenyl	172	9.763	9.763	0.000	100	282690	40.0	30.9	
\$ 13 2,4,6-Tribromophenol	330	11.387	11.388	-0.001	90	45818	40.0	28.9	
\$ 14 p-Terphenyl-d14	244	13.492	13.498	-0.006	100	340243	40.0	34.4	
80 1,4-Dioxane	88	3.102	3.107	-0.005	98	51087	50.0	22.0	
81 N-Nitrosodimethylamine	42	3.534	3.540	-0.006	95	80550	100.0	26.0	
82 Pyridine	52	3.636	3.636	0.000	95	89733	50.0	20.6	
88 Benzaldehyde	77	6.457	6.457	0.000	96	172544	100.0	142.1	E
89 Phenol	94	6.521	6.521	0.000	98	203894	50.0	32.4	
90 Aniline	93	6.579	6.579	0.000	97	187144	50.0	24.4	
91 Bis(2-chloroethyl)ether	93	6.628	6.628	0.000	98	167830	50.0	32.5	
93 2-Chlorophenol	128	6.740	6.740	0.000	97	156171	50.0	31.0	
258 n-Decane	57	6.766	6.766	0.000	99	181134	50.0	28.3	
94 1,3-Dichlorobenzene	146	6.921	6.921	0.000	97	167708	50.0	30.2	
95 1,4-Dichlorobenzene	146	7.007	7.002	0.005	93	170394	50.0	30.5	
96 Benzyl alcohol	108	7.114	7.114	0.000	93	108320	50.0	33.8	
97 1,2-Dichlorobenzene	146	7.194	7.194	0.000	96	161347	50.0	30.8	
98 2-Methylphenol	108	7.242	7.242	0.000	96	150031	50.0	33.5	
99 2,2'-oxybis[1-chloropropan	45	7.274	7.274	0.000	95	225982	50.0	31.4	
249 Indene	115	7.295	7.295	0.000	97	562833	100.0	62.7	
102 4-Methylphenol	108	7.418	7.413	0.005	94	156447	50.0	33.2	
101 N-Nitrosodi-n-propylamine	70	7.424	7.424	0.000	87	119204	50.0	33.0	
104 Acetophenone	105	7.434	7.440	-0.006	97	217142	50.0	32.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
106 Hexachloroethane	117	7.600	7.600	0.000	97	64794	50.0	29.4	
107 Nitrobenzene	77	7.648	7.648	0.000	88	167347	50.0	34.2	
110 Isophorone	82	7.920	7.920	0.000	99	311033	50.0	35.6	
111 2-Nitrophenol	139	8.033	8.033	0.000	93	73402	50.0	33.1	
112 2,4-Dimethylphenol	107	8.049	8.049	0.000	92	161270	50.0	34.7	
119 Benzoic acid	105	8.086	8.123	-0.037	0	20035	100.0	11.5	M
115 Bis(2-chloroethoxy)methane	93	8.155	8.155	0.000	100	194566	50.0	34.8	
117 2,4-Dichlorophenol	162	8.316	8.316	0.000	94	115484	50.0	31.5	
120 1,2,4-Trichlorobenzene	180	8.428	8.428	0.000	94	141218	50.0	33.4	
121 Naphthalene	128	8.524	8.524	0.000	98	450591	50.0	33.5	
123 4-Chloroaniline	127	8.561	8.561	0.000	97	141568	50.0	24.7	
124 2,6-Dichlorophenol	162	8.583	8.583	0.000	98	122922	50.0	33.5	
126 Hexachlorobutadiene	225	8.668	8.668	0.000	95	86831	50.0	33.6	
127 Caprolactam	113	8.935	8.941	-0.006	80	76316	100.0	54.9	
131 4-Chloro-3-methylphenol	107	9.122	9.122	0.000	92	131046	50.0	35.2	
133 2-Methylnaphthalene	142	9.347	9.347	0.000	91	300048	50.0	34.9	
252 1-Methylnaphthalene	142	9.464	9.464	0.000	97	280335	50.0	34.6	
136 Hexachlorocyclopentadiene	237	9.544	9.544	0.000	96	95443	50.0	31.8	
138 1,2,4,5-Tetrachlorobenzene	216	9.550	9.550	0.000	98	146104	50.0	37.0	
139 2,4,6-Trichlorophenol	196	9.673	9.673	0.000	95	84018	50.0	33.8	
140 2,4,5-Trichlorophenol	196	9.721	9.721	0.000	94	79700	50.0	31.0	
144 1,1'-Biphenyl	154	9.886	9.886	0.000	96	367346	50.0	37.3	
143 2-Chloronaphthalene	162	9.924	9.929	-0.005	97	289899	50.0	36.6	
145 2-Nitroaniline	65	10.020	10.020	0.000	83	86499	50.0	36.8	
147 Dimethyl phthalate	163	10.207	10.207	0.000	99	330661	50.0	38.0	
50 1,3-Dinitrobenzene	168	10.250	10.250	0.000	88	52385	50.0	39.0	
148 2,6-Dinitrotoluene	165	10.282	10.282	0.000	97	78778	50.0	40.1	
149 Acenaphthylene	152	10.405	10.405	-0.001	99	425950	50.0	36.8	
150 3-Nitroaniline	138	10.479	10.479	0.000	93	67205	50.0	31.8	
152 2,4-Dinitrophenol	184	10.586	10.592	-0.006	80	19858	100.0	26.9	
151 Acenaphthene	153	10.591	10.592	-0.001	95	288427	50.0	37.4	
153 4-Nitrophenol	109	10.645	10.645	0.000	90	67026	100.0	57.7	
154 2,4-Dinitrotoluene	165	10.730	10.730	0.000	95	99241	50.0	38.6	
155 Dibenzofuran	168	10.778	10.778	0.000	97	415578	50.0	37.4	
158 2,3,4,6-Tetrachlorophenol	232	10.901	10.901	0.000	96	65800	50.0	30.5	
160 Diethyl phthalate	149	10.965	10.965	0.000	98	323226	50.0	38.3	
257 Hexadecane	57	10.976	10.976	0.000	97	242603	50.0	38.0	
162 4-Chlorophenyl phenyl ethe	204	11.115	11.115	0.000	89	172370	50.0	38.3	
164 4-Nitroaniline	138	11.131	11.131	0.000	90	80877	50.0	35.7	
161 Fluorene	166	11.136	11.136	0.000	93	343922	50.0	37.7	
166 4,6-Dinitro-2-methylphenol	198	11.163	11.163	0.000	89	71625	100.0	53.9	
167 N-Nitrosodiphenylamine	169	11.233	11.233	0.000	98	247982	50.0	39.4	
169 Diphenylamine	169	11.233	11.233	0.000	97	247982	42.5	33.5	
170 Azobenzene	77	11.281	11.281	0.000	98	349470	50.0	37.9	
176 4-Bromophenyl phenyl ether	248	11.612	11.612	0.000	94	107287	50.0	41.1	
177 Hexachlorobenzene	284	11.708	11.708	0.000	96	130942	50.0	41.9	
180 Atrazine	200	11.735	11.735	0.000	94	197624	100.0	85.3	
181 Pentachlorophenol	266	11.890	11.890	0.000	94	73855	100.0	43.0	
263 n-Octadecane	57	11.890	11.890	0.000	98	244271	50.0	40.3	
185 Phenanthrene	178	12.098	12.098	0.000	96	469833	50.0	38.9	
188 Anthracene	178	12.146	12.146	0.000	96	482655	50.0	38.9	
189 Carbazole	167	12.280	12.280	0.000	97	439525	50.0	38.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
192 Di-n-butyl phthalate	149	12.541	12.541	0.000	100	520553	50.0	39.8	
197 Fluoranthene	202	13.193	13.193	0.000	96	523474	50.0	40.1	
198 Benzidine	184	13.268	13.268	0.000	99	126448	100.0	38.0	
199 Pyrene	202	13.407	13.407	0.000	97	531806	50.0	42.4	
205 Butyl benzyl phthalate	149	13.893	13.893	0.000	98	225540	50.0	41.0	
210 Bis(2-ethylhexyl) phthalat	149	14.379	14.379	0.000	97	313481	50.0	43.3	
208 3,3'-Dichlorobenzidine	252	14.427	14.427	0.000	99	333533	100.0	71.8	
209 Benzo[a]anthracene	228	14.497	14.497	0.000	97	526663	50.0	41.0	
211 Chrysene	228	14.534	14.534	0.000	97	509682	50.0	41.0	
212 Di-n-octyl phthalate	149	15.010	15.004	0.006	99	501797	50.0	39.2	
213 Benzo[b]fluoranthene	252	15.672	15.672	0.000	96	530169	50.0	42.3	
214 Benzo[k]fluoranthene	252	15.704	15.704	0.000	98	528890	50.0	41.1	
217 Benzo[a]pyrene	252	16.105	16.110	-0.005	97	487912	50.0	41.5	
220 Dibenz(a,h)anthracene	278	17.868	17.873	-0.005	89	550187	50.0	42.0	
219 Indeno[1,2,3-cd]pyrene	276	17.873	17.884	-0.011	98	644588	50.0	42.0	
221 Benzo[g,h,i]perylene	276	18.402	18.407	-0.005	97	552236	50.0	44.7	
S 78 3-Methylphenol	1				0		50.0	33.2	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Review Flags

M - Manually Integrated

Reagents:

MB_INTSTD_STK_00019

Amount Added: 20.00

Units: uL

Run Reagent

Chrom Revision: 2.2 04-Mar-2016 14:36:24

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160330-51640.b\U25864.D

Injection Date: 30-Mar-2016 08:51:30

Instrument ID: HP5973U

Operator ID: CAS

Lims ID: LCS 480-293139/2-A

Worklist Smp#: 10

Client ID:

Injection Vol: 1.0 ul

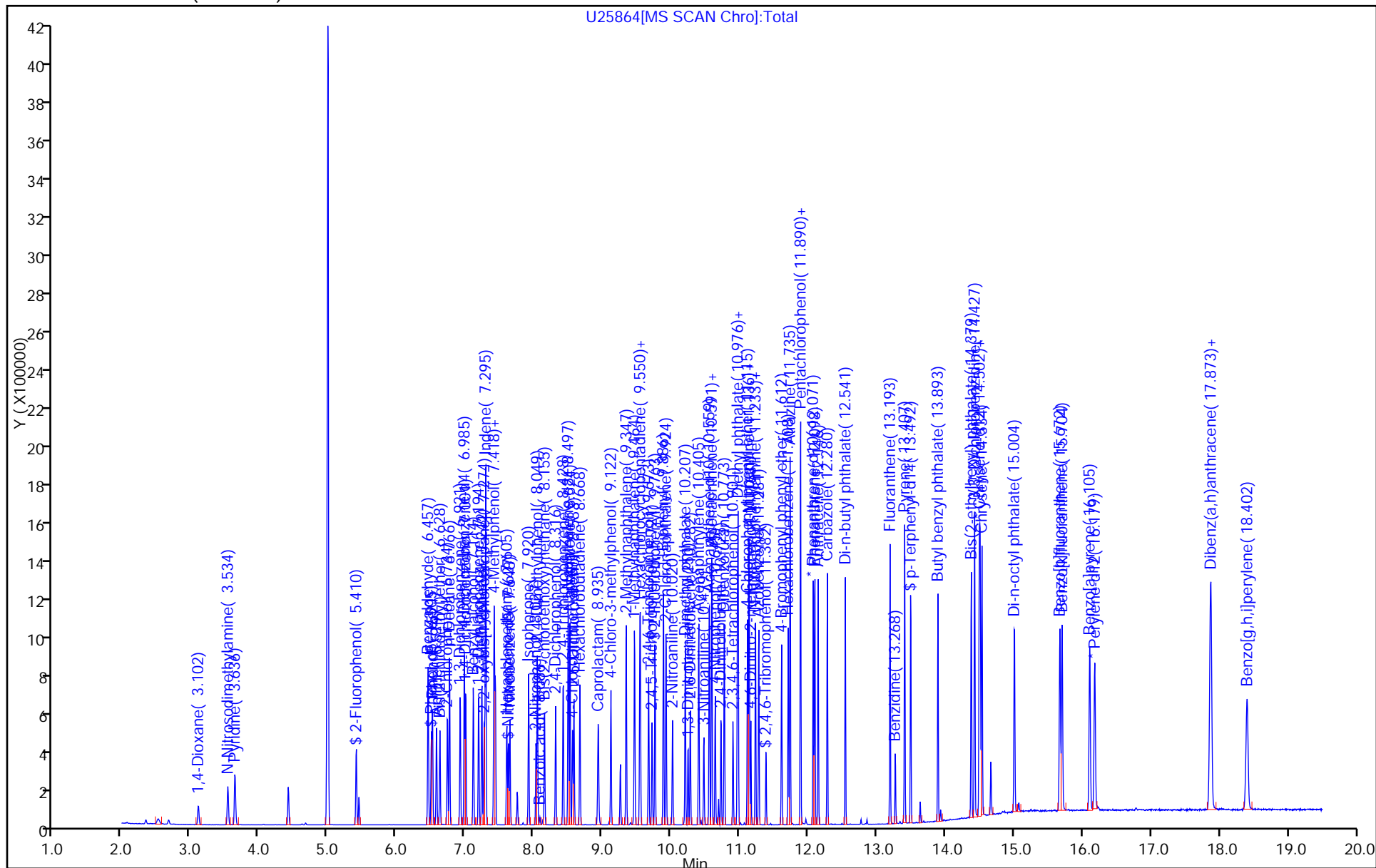
Dil. Factor: 1.0000

ALS Bottle#: 10

Method: U-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>460-110715-1</u>
SDG No.: _____	
Client Sample ID: <u>C3 MS</u>	Lab Sample ID: <u>460-110715-1 MS</u>
Matrix: <u>Solid</u>	Lab File ID: <u>U25865.D</u>
Analysis Method: <u>8270D</u>	Date Collected: <u>03/18/2016 12:15</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>03/29/2016 16:12</u>
Sample wt/vol: <u>30.31(g)</u>	Date Analyzed: <u>03/30/2016 09:17</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>20</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>4.9</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>293176</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	1500	J	3500	520
95-94-3	1,2,4,5-Tetrachlorobenzene	1470	J	3500	600
108-60-1	2,2'-oxybis[1-chloropropane]	1400	J	3500	710
58-90-2	2,3,4,6-Tetrachlorophenol	2400	J	3500	730
95-95-4	2,4,5-Trichlorophenol	2080	J	3500	960
88-06-2	2,4,6-Trichlorophenol	2300	J	3500	710
120-83-2	2,4-Dichlorophenol	1320	J	3500	370
105-67-9	2,4-Dimethylphenol	1250	J	3500	850
51-28-5	2,4-Dinitrophenol	35000	U	35000	16000
121-14-2	2,4-Dinitrotoluene	2900	J	3500	730
606-20-2	2,6-Dinitrotoluene	2650	J	3500	420
91-58-7	2-Chloronaphthalene	1520	J	3500	580
95-57-8	2-Chlorophenol	1280	J	3500	650
91-57-6	2-Methylnaphthalene	1440	J	3500	710
95-48-7	2-Methylphenol	1300	J	3500	420
88-74-4	2-Nitroaniline	2650	J	6900	520
88-75-5	2-Nitrophenol	2590	J	3500	1000
91-94-1	3,3'-Dichlorobenzidine	6900	U	6900	4200
99-09-2	3-Nitroaniline	2490	J	6900	980
534-52-1	4,6-Dinitro-2-methylphenol	6700	J	6900	3500
101-55-3	4-Bromophenyl phenyl ether	1350	J	3500	500
59-50-7	4-Chloro-3-methylphenol	1210	J	3500	870
106-47-8	4-Chloroaniline	876	J	3500	870
7005-72-3	4-Chlorophenyl phenyl ether	1440	J	3500	440
106-44-5	4-Methylphenol	1250	J	6900	420
100-01-6	4-Nitroaniline	2520	J	6900	1900
100-02-7	4-Nitrophenol	4350	J	6900	2500
83-32-9	Acenaphthene	1650	J	3500	520
208-96-8	Acenaphthylene	1430	J	3500	460
98-86-2	Acetophenone	1270	J	3500	480
120-12-7	Anthracene	1630	J	3500	870
1912-24-9	Atrazine	2750	J	3500	1200
100-52-7	Benzaldehyde	5580		3500	2800
56-55-3	Benzo[a]anthracene	2900	J	3500	350

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>460-110715-1</u>
SDG No.: _____	
Client Sample ID: <u>C3 MS</u>	Lab Sample ID: <u>460-110715-1 MS</u>
Matrix: <u>Solid</u>	Lab File ID: <u>U25865.D</u>
Analysis Method: <u>8270D</u>	Date Collected: <u>03/18/2016 12:15</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>03/29/2016 16:12</u>
Sample wt/vol: <u>30.31(g)</u>	Date Analyzed: <u>03/30/2016 09:17</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>20</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>4.9</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>293176</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
50-32-8	Benzo[a]pyrene	2720	J	3500	520
205-99-2	Benzo[b]fluoranthene	3200	J	3500	560
191-24-2	Benzo[g,h,i]perylene	3660		3500	370
207-08-9	Benzo[k]fluoranthene	2200	J	3500	460
111-91-1	Bis(2-chloroethoxy)methane	1360	J	3500	750
111-44-4	Bis(2-chloroethyl)ether	1390	J	3500	460
117-81-7	Bis(2-ethylhexyl) phthalate	1460	J	3500	1200
85-68-7	Butyl benzyl phthalate	2280	J	3500	580
105-60-2	Caprolactam	3040	J	3500	1100
86-74-8	Carbazole	1600	J	3500	420
218-01-9	Chrysene	3300	J	3500	790
53-70-3	Dibenz(a,h)anthracene	3000	J	3500	620
132-64-9	Dibenzofuran	1600	J	3500	420
84-66-2	Diethyl phthalate	1320	J	3500	460
131-11-3	Dimethyl phthalate	1400	J	3500	420
84-74-2	Di-n-butyl phthalate	1280	J	3500	600
117-84-0	Di-n-octyl phthalate	2680	J	3500	420
206-44-0	Fluoranthene	4440		3500	370
86-73-7	Fluorene	1510	J	3500	420
118-74-1	Hexachlorobenzene	1490	J	3500	480
87-68-3	Hexachlorobutadiene	1490	J	3500	520
77-47-4	Hexachlorocyclopentadiene	1820	J	3500	480
67-72-1	Hexachloroethane	1200	J	3500	460
193-39-5	Indeno[1,2,3-cd]pyrene	3490	J	3500	440
78-59-1	Isophorone	1200	J	3500	750
91-20-3	Naphthalene	1500	J	3500	460
98-95-3	Nitrobenzene	1270	J	3500	400
621-64-7	N-Nitrosodi-n-propylamine	1230	J	3500	600
86-30-6	N-Nitrosodiphenylamine	3500	U	3500	2900
87-86-5	Pentachlorophenol	4800	J	6900	3500
85-01-8	Phenanthrene	3270	J	3500	520
108-95-2	Phenol	1350	J	3500	540
129-00-0	Pyrene	3820		3500	420

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>460-110715-1</u>
SDG No.: _____	
Client Sample ID: <u>C3 MS</u>	Lab Sample ID: <u>460-110715-1 MS</u>
Matrix: <u>Solid</u>	Lab File ID: <u>U25865.D</u>
Analysis Method: <u>8270D</u>	Date Collected: <u>03/18/2016 12:15</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>03/29/2016 16:12</u>
Sample wt/vol: <u>30.31(g)</u>	Date Analyzed: <u>03/30/2016 09:17</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>20</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>4.9</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>293176</u>	Units: <u>ug/Kg</u>

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	161	*	39-146
321-60-8	2-Fluorobiphenyl	88		37-120
367-12-4	2-Fluorophenol (Surr)	79		18-120
4165-60-0	Nitrobenzene-d5 (Surr)	73		34-132
4165-62-2	Phenol-d5 (Surr)	78		11-120
1718-51-0	p-Terphenyl-d14 (Surr)	86		65-153

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160330-51640.b\U25865.D
 Lims ID: 460-110715-B-1-B MS
 Client ID:
 Sample Type: MS
 Inject. Date: 30-Mar-2016 09:17:30 ALS Bottle#: 11 Worklist Smp#: 11
 Injection Vol: 1.0 ul Dil. Factor: 20.0000
 Sample Info: 480-0051640-011
 Misc. Info.: 480-97201-A-1-A
 Operator ID: CAS Instrument ID: HP5973U
 Method: \\ChromNA\Buffalo\ChromData\HP5973U\20160330-51640.b\U-8270.m
 Limit Group: MB - 8270D ICAL
 Last Update: 04-Apr-2016 15:24:02 Calib Date: 15-Mar-2016 21:31:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U25648.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK003

First Level Reviewer: richardsd

Date: 30-Mar-2016 13:14:03

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.986	6.980	0.006	96	124271	2.00	40.0	
* 2 Naphthalene-d8	136	8.497	8.497	0.000	100	474535	2.00	40.0	
* 3 Acenaphthene-d10	164	10.554	10.559	-0.005	98	248452	2.00	40.0	
* 4 Phenanthrene-d10	188	12.071	12.071	0.000	97	413867	2.00	40.0	
* 5 Chrysene-d12	240	14.507	14.507	0.000	97	513447	2.00	40.0	
* 6 Perylene-d12	264	16.180	16.179	0.001	97	572077	2.00	40.0	
\$ 9 2-Fluorophenol	112	5.404	5.404	0.000	93	6828	2.00	1.59	
\$ 10 Phenol-d5	99	6.499	6.505	-0.006	86	8193	2.00	1.57	
\$ 11 Nitrobenzene-d5	82	7.627	7.627	0.000	94	6896	2.00	1.46	
\$ 12 2-Fluorobiphenyl	172	9.764	9.763	0.001	97	14502	2.00	1.75	
\$ 13 2,4,6-Tribromophenol	330	11.382	11.388	-0.006	81	1905	2.00	3.22	
\$ 14 p-Terphenyl-d14	244	13.492	13.498	-0.006	50	19370	2.00	1.71	
22 N-Methylaniline	1		0.700					ND	
71 Chlorotoluene N.O.S	1		0.700					ND	
58 Chlorobenzotrifluoride N.O	1		0.700					ND	
33 o-Anisidine	1		0.700					ND	
41 2-Chlorotoluene	91		0.700					ND	
59 Tricresyl phosphate	1		0.700					ND	
15 Lidocaine	1		0.700					ND	
75 3-Chloropyridine	1		0.700					ND	
63 5-Ethyl-5-phenyl barbituri	1		0.700					ND	
68 4-Chloropyridine	1		0.700					ND	
48 2-Chloropyridine	1		0.700					ND	
80 1,4-Dioxane	88	3.107	3.107	0.000	88	2612	2.50	1.29	
81 N-Nitrosodimethylamine	42	3.534	3.540	-0.006	93	3823	5.00	1.41	
82 Pyridine	52	3.647	3.636	0.011	88	5303	2.50	1.39	
248 Triethyl amine	86		3.980					ND	
83 2-Picoline	93		4.667					ND	
84 N-Nitrosomethylethylamine	88		4.774					ND	
31 Dimethylformamide	73		4.783					ND	
250 Acrylamide	71		5.094					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
85 Methyl methanesulfonate	80		5.153					ND	
86 N-Nitrosodiethylamine	102		5.671					ND	
87 Ethyl methanesulfonate	79		6.008					ND	
88 Benzaldehyde	77	6.451	6.457	-0.006	94	8537	5.00	8.05	
89 Phenol	94	6.515	6.521	-0.006	97	10685	2.50	1.94	
90 Aniline	93	6.580	6.579	0.001	95	7140	2.50	1.06	
91 Bis(2-chloroethyl)ether	93	6.628	6.628	0.000	97	9047	2.50	2.00	
92 Pentachloroethane	167		6.654					ND	
93 2-Chlorophenol	128	6.735	6.740	-0.006	96	8091	2.50	1.84	
258 n-Decane	57	6.767	6.766	0.001	96	9443	2.50	1.69	
94 1,3-Dichlorobenzene	146	6.921	6.921	0.000	94	9212	2.50	1.90	
95 1,4-Dichlorobenzene	146	7.002	7.002	0.000	10	9377	2.50	1.92	
96 Benzyl alcohol	108	7.114	7.114	0.000	92	4696	2.50	1.68	
45 2-Aminopyridine	94		7.171					ND	
97 1,2-Dichlorobenzene	146	7.194	7.194	0.000	96	9343	2.50	2.04	
98 2-Methylphenol	108	7.237	7.242	-0.005	94	7322	2.50	1.87	
99 2,2'-oxybis[1-chloropropan	45	7.274	7.274	0.000	95	12699	2.50	2.02	
249 Indene	115	7.295	7.295	0.000	97	30695	5.00	3.92	
100 N-Nitrosopyrrolidine	100		7.391					ND	
102 4-Methylphenol	108	7.413	7.413	0.000	94	7378	2.50	1.80	
101 N-Nitrosodi-n-propylamine	70	7.418	7.424	-0.006	90	5599	2.50	1.77	
103 N-Nitrosomorpholine	56		7.434					ND	
104 Acetophenone	105	7.434	7.440	-0.006	94	10832	2.50	1.83	
105 2-Toluidine	106		7.482					ND	
73 4-Methylbenzenamine	106		7.488					ND	
106 Hexachloroethane	117	7.600	7.600	0.000	92	3319	2.50	1.73	
107 Nitrobenzene	77	7.648	7.648	0.000	85	7996	2.50	1.83	
109 N-Nitrosopiperidine	114		7.819					ND	
110 Isophorone	82	7.920	7.920	0.000	99	13531	2.50	1.74	
46 2,4-Dichlorotoluene	125		7.942					ND	
51 2-Chloroaniline	127		7.984					ND	
111 2-Nitrophenol	139	8.027	8.033	-0.006	88	3364	2.50	3.74	
112 2,4-Dimethylphenol	107	8.049	8.049	0.000	92	7480	2.50	1.80	
53 1,3,5-Trichlorobenzene	180		8.059					ND	
116 o,o',o"-Triethylphosphoro	198		8.118					ND	
119 Benzoic acid	105	8.086	8.086	-0.037	1	1565	5.00	4.96	M
113 Tetraethyl lead	237		8.134					ND	
115 Bis(2-chloroethoxy)methane	93	8.150	8.155	-0.005	95	9811	2.50	1.97	
118 alpha,alpha-Dimethyl phene	58		8.300					ND	
117 2,4-Dichlorophenol	162	8.316	8.316	0.000	91	6219	2.50	1.91	
66 4-Chlorophenol	128		8.412					ND	
120 1,2,4-Trichlorobenzene	180	8.423	8.428	-0.005	92	7728	2.50	2.05	
122 Alpha-Terpineol	59		8.503					ND	
121 Naphthalene	128	8.524	8.524	0.000	95	25978	2.50	2.17	
123 4-Chloroaniline	127	8.562	8.561	0.001	96	6438	2.50	1.26	
124 2,6-Dichlorophenol	162	8.583	8.583	0.000	94	6220	2.50	1.90	
125 Hexachloropropene	213		8.636					ND	
126 Hexachlorobutadiene	225	8.668	8.668	0.000	91	4959	2.50	2.15	
32 Quinoline	129		8.909					ND	
129 N-Nitrosodi-n-butylamine	84		8.941					ND	
127 Caprolactam	113	8.925	8.941	-0.016	1	3031	5.00	4.38	M
128 p-Phenylene diamine	108		8.967					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
131 4-Chloro-3-methylphenol	107	9.117	9.122	-0.005	88	5798	2.50	1.75	
132 Safrole, Total	162		9.213					ND	
259 2,4,5-Trichlorotoluene	159		9.299					ND	
133 2-Methylnaphthalene	142	9.347	9.347	0.000	94	15889	2.50	2.07	
135 Phthalic anhydride	104		9.389					ND	
251 n,n'-Dimethylaniline	120		9.404					ND	
252 1-Methylnaphthalene	142	9.464	9.464	0.000	96	14579	2.50	2.02	
136 Hexachlorocyclopentadiene	237	9.545	9.545	0.001	1	3889	2.50	2.63	
138 1,2,4,5-Tetrachlorobenzene	216	9.550	9.550	0.000	97	7591	2.50	2.13	
262 1,2,3,4 -Tetrachlorobenzen	216	9.550	9.550	0.000	0	7591		NC	
261 2,3-Dichlorobenzenamine	161		9.673					ND	
139 2,4,6-Trichlorophenol	196	9.673	9.673	0.000	91	4198	2.50	3.32	
140 2,4,5-Trichlorophenol	196	9.721	9.721	0.000	89	3612	2.50	3.01	
142 Isosafrole	162		9.833					ND	
144 1,1'-Biphenyl	154	9.886	9.886	0.000	96	19245	2.50	2.16	
143 2-Chloronaphthalene	162	9.924	9.929	-0.005	96	15675	2.50	2.19	
254 1-Chloronaphthalene	162		9.956					ND	
145 2-Nitroaniline	65	10.020	10.020	0.000	81	3548	2.50	3.83	
42 1,4-Naphthoquinone	158		10.111					ND	
30 Dicyclohexylamine	138		10.127					ND	
146 1,4-Dinitrobenzene	168		10.159					ND	
147 Dimethyl phthalate	163	10.207	10.207	0.000	99	15901	2.50	2.02	
50 1,3-Dinitrobenzene	168	10.244	10.250	-0.006	81	1820	2.50	4.63	
148 2,6-Dinitrotoluene	165	10.282	10.282	0.000	88	2777	2.50	3.82	
149 Acenaphthylene	152	10.405	10.405	0.000	98	21525	2.50	2.06	
150 3-Nitroaniline	138	10.479	10.479	0.000	24	2450	2.50	3.59	
152 2,4-Dinitrophenol	184	10.586	10.586	-0.006	1	447	5.00	9.52	
151 Acenaphthene	153	10.592	10.592	0.000	95	16586	2.50	2.38	
153 4-Nitrophenol	109	10.645	10.645	0.000	49	2366	5.00	6.27	
154 2,4-Dinitrotoluene	165	10.725	10.730	-0.005	91	3648	2.50	4.18	
156 Pentachlorobenzene	250		10.741					ND	
155 Dibenzofuran	168	10.773	10.778	-0.005	96	23100	2.50	2.30	
157 1-Naphthylamine	143		10.853					ND	
265 2,3,5,6-Tetrachlorophenol	232		10.858					ND	
158 2,3,4,6-Tetrachlorophenol	232	10.901	10.901	0.000	91	2915	2.50	3.46	
159 2-Naphthylamine	143		10.933					ND	
160 Diethyl phthalate	149	10.966	10.965	0.001	98	14545	2.50	1.91	
257 Hexadecane	57	10.976	10.976	0.000	96	11045	2.50	1.91	
163 Thionazin	97		11.056					ND	
162 4-Chlorophenyl phenyl ethe	204	11.115	11.115	0.000	90	8424	2.50	2.07	
165 N-Nitro-o-toluidine	152		11.126					ND	
164 4-Nitroaniline	138	11.131	11.131	0.000	88	2845	2.50	3.63	
161 Fluorene	166	11.137	11.136	0.000	92	18001	2.50	2.18	
29 Tributyl phosphate	99		11.163					ND	
166 4,6-Dinitro-2-methylphenol	198	11.163	11.163	0.000	85	2572	5.00	9.66	
167 N-Nitrosodiphenylamine	169	11.233	11.233	0.000	97	11228	2.50	1.86	
169 Diphenylamine	169	11.233	11.233	0.000	97	11228	2.13	1.59	
168 1,2-Diphenylhydrazine	77	11.275	11.281	-0.006	99	15601		1.77	
170 Azobenzene	77	11.275	11.281	-0.006	98	15601	2.50	1.77	
171 Sulfotepp	322		11.361					ND	
172 1,3,5-Trinitrobenzene	213		11.462					ND	
175 Phenacetin	108		11.516					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
173 Diallate	43		11.516					ND	
174 Phorate	75		11.521					ND	
176 4-Bromophenyl phenyl ether	248	11.612	11.612	0.000	94	4869	2.50	1.95	
178 Dimethoate	87		11.687					ND	
179 Simazine	201		11.708					ND	
177 Hexachlorobenzene	284	11.708	11.708	0.000	94	6444	2.50	2.15	
180 Atrazine	200	11.735	11.735	0.000	93	8303	5.00	3.96	
182 4-Aminobiphenyl	169		11.863					ND	
181 Pentachlorophenol	266	11.884	11.890	-0.006	61	2441	5.00	6.91	
263 n-Octadecane	57	11.890	11.890	0.000	97	10800	2.50	1.86	
184 Pronamide	173		11.900					ND	
183 Pentachloronitrobenzene	237		11.906					ND	
187 Disulfoton	88		12.023					ND	
186 Dinoseb	211		12.034					ND	
185 Phenanthrene	178	12.093	12.098	-0.005	96	54472	2.50	4.72	
188 Anthracene	178	12.146	12.146	0.000	97	27876	2.50	2.35	
189 Carbazole	167	12.280	12.280	0.000	96	24968	2.50	2.30	
190 Methyl parathion	109		12.381					ND	
191 Alachlor	160		12.381					ND	
192 Di-n-butyl phthalate	149	12.542	12.541	0.001	100	23108	2.50	1.85	
264 2-Methylantracene	192	12.606	12.611	-0.005	90	1578		NC	
193 Ethyl Parathion	97		12.728					ND	
194 4-Nitroquinoline-1-oxide	190		12.792					ND	
195 Methapyrilene	58		12.830					ND	
62 Anthraquinone	180		12.830					ND	
196 Isodrin	193		13.065					ND	
197 Fluoranthene	202	13.193	13.193	0.000	95	79946	2.50	6.40	
37 1-Hydroxyanthraquinone	224		13.214					ND	
198 Benzidine	184		13.268				ND	ND	
199 Pyrene	202	13.407	13.407	0.000	96	78836	2.50	5.50	
200 Aramite, Total	185		13.498					ND	
201 p-Dimethylamino azobenzene	120		13.615					ND	
202 Chlorobenzilate	139		13.642					ND	
34 1,4-Dihydroxyanthraquinone	240		13.642					ND	
204 Famphur	218		13.861					ND	
64 9-Octadecenamide	72		13.877					ND	
205 Butyl benzyl phthalate	149	13.893	13.893	0.000	96	11581	2.50	3.29	
203 3,3'-Dimethylbenzidine	212		13.914					ND	
206 Kepone	272		14.032					ND	
207 2-Acetylaminofluorene	181		14.155					ND	
210 Bis(2-ethylhexyl) phthalat	149	14.379	14.379	0.000	97	17443	2.50	2.11	
247 4,4'-Methylene bis(2-chlor	231		14.416					ND	
208 3,3'-Dichlorobenzidine	252	14.427	14.427	0.000	98	16848	5.00	4.91	
209 Benzo[a]anthracene	228	14.497	14.497	0.000	97	61280	2.50	4.18	
211 Chrysene	228	14.534	14.534	0.000	97	67687	2.50	4.76	
255 6-Methylchrysene	242		14.988					ND	
212 Di-n-octyl phthalate	149	15.004	15.004	0.000	80	28466	2.50	3.86	
215 7,12-Dimethylbenz(a)anthra	256		15.640					ND	
213 Benzo[b]fluoranthene	252	15.667	15.672	-0.005	97	77165	2.50	4.61	
214 Benzo[k]fluoranthene	252	15.699	15.704	-0.005	99	54587	2.50	3.18	
216 Hexachlorophene	196		15.720					ND	
260 Benzo[e]pyrene	252	16.030	16.041	-0.011	98	21872		NC	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
217 Benzo[a]pyrene	252	16.105	16.110	-0.005	97	61476	2.50	3.92	
218 3-Methylcholanthrene	252		16.564					ND	
237 Dibenz[a,h]acridine	279		17.424					ND	
220 Dibenz(a,h)anthracene	278	17.857	17.873	-0.016	67	43715	2.50	4.32	
219 Indeno[1,2,3-cd]pyrene	276	17.862	17.884	-0.022	95	68332	2.50	5.03	
221 Benzo[g,h,i]perylene	276	18.391	18.407	-0.016	98	61357	2.50	5.27	
72 4-Chlorobenzotrifluoride	1		0.700					ND	
269 2,4-Dichlorotoluene TIC	1		0.700					ND	
277 4-Chloro-3-nitro-alpha,alp	1		0.700					ND	
283 2,4'-DDT	1		0.700					ND	
21 2-Chlorobenzotrifluoride	1		0.700					ND	
239 Benzo[j]fluoranthene	1		0.700					ND	
234 7H-Dibenzo[c,g]carbazole	1		0.700					ND	
267 4-Chlorobenzotrifluoride T	1		0.700					ND	
266 2,6-Dichlorotoluene TIC	1		0.700					ND	
268 2-Chlorobenzotrifluoride T	1		0.700					ND	
40 1-Methylcyclopentanol	1		0.700					ND	
280 Photomirex TIC	1		0.700					ND	
246 Phenylmercaptan	110		0.700					ND	
76 3-Chlorobenzotrifluoride	1		0.700					ND	
17 CN-500	1		0.700					ND	
23 n,n'-Dimethylacetamide	1		0.700					ND	
274 Phenyl ether	1		0.700					ND	
227 CBF-500	1		0.700					ND	
225 CBF-400	1		0.700					ND	
74 3-Chlorotoluene	1		0.700					ND	
56 Benzeneacetic acid (TIC)	1		0.700					ND	
281 2,4'-DDE	1		0.700					ND	
67 4-Chlorotoluene	91		0.700					ND	
241 2,4-Toluene diamine	1		0.700					ND	
52 2,6-Dichlorotoluene	1		0.700					ND	
27 Pendimethalin	1		0.700					ND	
229 1,3-phenylenediamine TIC	1		0.700					ND	
224 5-Methyl-o-Anisidine TIC	1		0.700					ND	
236 Dibenz[a,j]acridine	279		0.700					ND	
238 Dibenzo[a,h]pyrene	1		0.700					ND	
70 Phenylacetic Acid	1		0.700					ND	
54 p-Fluoroaniline	1		0.700					ND	
49 2,6-Dichloropyridine	1		0.700					ND	
242 alpha,alpha-Dimethyl phene	1		0.700					ND	
19 NVF-400	1		0.700					ND	
24 Dibenzo[a,e]pyrene	1		0.700					ND	
244 Hexamethyldisiloxane TIC	1		0.700					ND	
245 1-Bromopropane	1		0.700					ND	
57 5-Methyl-o-Anisidine	1		0.700					ND	
230 2,4-Xylidine TIC	1		0.700					ND	
226 Tris(2,3-dibromopropyl)pho	1		0.700					ND	
36 2,3-Dichlorophenol	1		0.700					ND	
273 4-tert-Octylphenol	1		0.700					ND	
240 Dibenz(a,i)pyrene	1		0.700					ND	
18 CU-600	1		0.700					ND	
61 CAG-800	1		0.700					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
235 Octachlorostyrene	1		0.700					ND	
270 3-Chlorobenzotrifluoride T	1		0.700					ND	
228 o-Anisidine TIC	1		0.700					ND	
60 Benzeneacetonitrile	1		0.700					ND	
282 2,4'-DDD	235		0.700					ND	
272 Benzophenone	1		0.700					ND	
279 1,4-Dioxane TIC	1		0.700					ND	
232 4,4'-Methylene bis(2-chlor	1		0.700					ND	
243 Tetramethyl lead TIC	1		0.700					ND	
275 1,2,3-Trimethylbenzene	105		0.700					ND	
108 Pentachlorophenol_T	266	11.884	11.884	0.000	61	2441		NR	
130 Benzidine_T	184		13.273					ND	
134 4,4'-DDE	246		13.548					ND	
137 4,4'-DDD	235		13.781					ND	
141 4,4'-DDT	235		14.021					ND	
S 222 Total Cresols	1				0			3.67	
S 77 3 & 4 Methylphenol	108				0			1.80	
S 78 3-Methylphenol	1				0		2.50	1.80	
S 233 EPH Adjustment 1	1		0.700					ND	
T 25 Prometryn (TIC)	1		0.700					ND	
T 65 Benefin (TIC)	1		0.700					ND	
T 28 Pendimethalin (TIC)	1		0.700					ND	
T 26 trans Azobenzene (TIC)	77	11.275	0.700	10.575	91	15601		2.51	
T 38 1-Methylnaphthalene (TIC)	142	9.347	0.700	8.647	91	15889		2.56	
T 231 2,3,7,8-TCDD	322		10.700					ND	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

NC - Not Calibrated

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

MB_INTSTD_STK_00019

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160330-51640.b\U25865.D

Injection Date: 30-Mar-2016 09:17:30

Instrument ID: HP5973U

Operator ID: CAS

Lims ID: 460-110715-B-1-B MS

Worklist Smp#: 11

Client ID:

Injection Vol: 1.0 ul

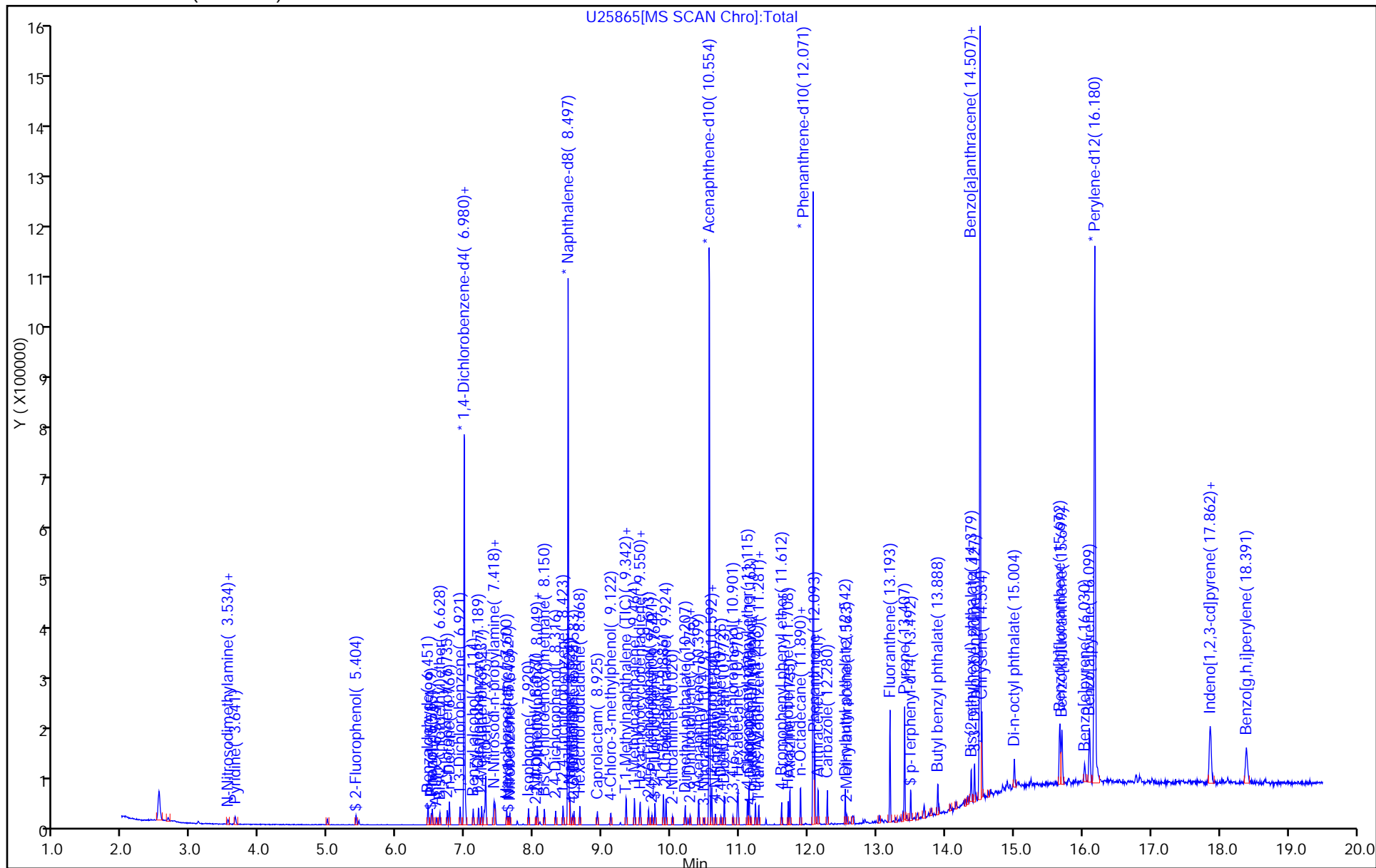
Dil. Factor: 20.0000

ALS Bottle#: 11

Method: U-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160330-51640.b\U25865.D

Injection Date: 30-Mar-2016 09:17:30

Instrument ID: HP5973U

Lims ID: 460-110715-B-1-B MS

Client ID:

Operator ID: CAS

ALS Bottle#:

11

Worklist Smp#: 11

Injection Vol: 1.0 ul

Dil. Factor: 20.0000

Method: U-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

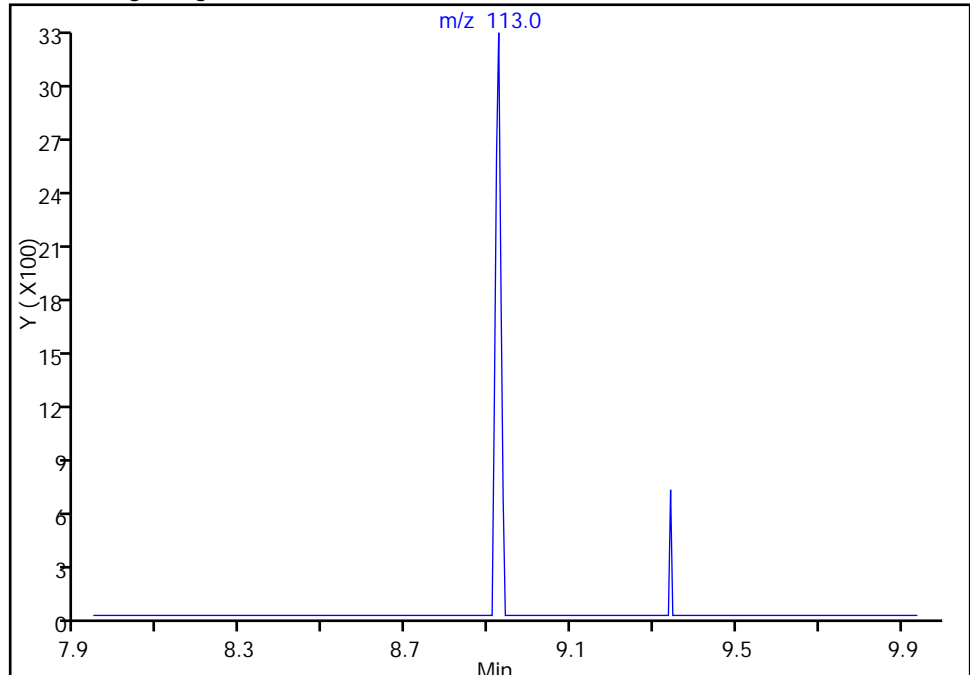
Detector: MS SCAN

127 Caprolactam, CAS: 105-60-2

Not Detected

Expected RT: 8.94

Processing Integration Results



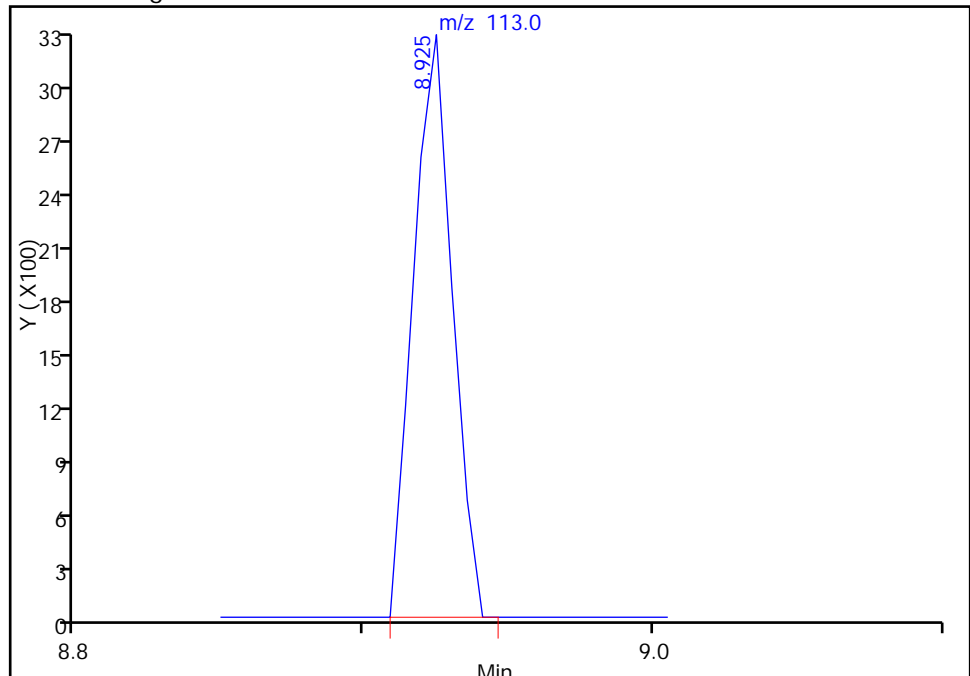
RT: 8.92

Area: 3031

Amount: 4.382483

Amount Units: ng/uL

Manual Integration Results



Reviewer: richardsd, 30-Mar-2016 13:14:03

Audit Action: Manually Integrated

Audit Reason: Assign Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>460-110715-1</u>
SDG No.: _____	
Client Sample ID: <u>C3 MSD</u>	Lab Sample ID: <u>460-110715-1 MSD</u>
Matrix: <u>Solid</u>	Lab File ID: <u>U25866.D</u>
Analysis Method: <u>8270D</u>	Date Collected: <u>03/18/2016 12:15</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>03/29/2016 16:12</u>
Sample wt/vol: <u>19.30 (g)</u>	Date Analyzed: <u>03/30/2016 09:44</u>
Con. Extract Vol.: <u>1 (mL)</u>	Dilution Factor: <u>20</u>
Injection Volume: <u>1 (uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>4.9</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>293176</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	2200	J	5600	820
95-94-3	1,2,4,5-Tetrachlorobenzene	2020	J	5600	950
108-60-1	2,2'-oxybis[1-chloropropane]	1960	J	5600	1100
58-90-2	2,3,4,6-Tetrachlorophenol	3690	J	5600	1100
95-95-4	2,4,5-Trichlorophenol	3230	J	5600	1500
88-06-2	2,4,6-Trichlorophenol	3380	J	5600	1100
120-83-2	2,4-Dichlorophenol	2000	J	5600	590
105-67-9	2,4-Dimethylphenol	1790	J	5600	1300
51-28-5	2,4-Dinitrophenol	54000	U	54000	26000
121-14-2	2,4-Dinitrotoluene	4380	J	5600	1100
606-20-2	2,6-Dinitrotoluene	4030	J	5600	650
91-58-7	2-Chloronaphthalene	2140	J	5600	920
95-57-8	2-Chlorophenol	1930	J	5600	1000
91-57-6	2-Methylnaphthalene	2070	J	5600	1100
95-48-7	2-Methylphenol	1800	J	5600	650
88-74-4	2-Nitroaniline	3860	J	11000	820
88-75-5	2-Nitrophenol	4030	J	5600	1600
91-94-1	3,3'-Dichlorobenzidine	11000	U	11000	6500
99-09-2	3-Nitroaniline	11000	U	11000	1500
534-52-1	4,6-Dinitro-2-methylphenol	10400	J	11000	5600
101-55-3	4-Bromophenyl phenyl ether	2260	J	5600	780
59-50-7	4-Chloro-3-methylphenol	1800	J	5600	1400
106-47-8	4-Chloroaniline	5600	U	5600	1400
7005-72-3	4-Chlorophenyl phenyl ether	2100	J	5600	690
106-44-5	4-Methylphenol	1780	J	11000	650
100-01-6	4-Nitroaniline	3940	J	11000	2900
100-02-7	4-Nitrophenol	11000	U	11000	3900
83-32-9	Acenaphthene	2160	J	5600	820
208-96-8	Acenaphthylene	1990	J	5600	720
98-86-2	Acetophenone	1860	J	5600	750
120-12-7	Anthracene	2230	J	5600	1400
1912-24-9	Atrazine	4360	J	5600	1900
100-52-7	Benzaldehyde	8270		5600	4400
56-55-3	Benzo[a]anthracene	3580	J	5600	560

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>460-110715-1</u>
SDG No.: _____	
Client Sample ID: <u>C3 MSD</u>	Lab Sample ID: <u>460-110715-1 MSD</u>
Matrix: <u>Solid</u>	Lab File ID: <u>U25866.D</u>
Analysis Method: <u>8270D</u>	Date Collected: <u>03/18/2016 12:15</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>03/29/2016 16:12</u>
Sample wt/vol: <u>19.30 (g)</u>	Date Analyzed: <u>03/30/2016 09:44</u>
Con. Extract Vol.: <u>1 (mL)</u>	Dilution Factor: <u>20</u>
Injection Volume: <u>1 (uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>4.9</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>293176</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
50-32-8	Benzo[a]pyrene	3270	J	5600	820
205-99-2	Benzo[b]fluoranthene	3520	J	5600	880
191-24-2	Benzo[g,h,i]perylene	4820	J	5600	590
207-08-9	Benzo[k]fluoranthene	2740	J	5600	720
111-91-1	Bis(2-chloroethoxy)methane	2060	J	5600	1200
111-44-4	Bis(2-chloroethyl)ether	1930	J	5600	720
117-81-7	Bis(2-ethylhexyl) phthalate	2190	J	5600	1900
85-68-7	Butyl benzyl phthalate	3480	J	5600	920
105-60-2	Caprolactam	5010	J	5600	1700
86-74-8	Carbazole	2140	J	5600	650
218-01-9	Chrysene	3760	J	5600	1200
53-70-3	Dibenz(a,h)anthracene	4310	J	5600	980
132-64-9	Dibenzofuran	2200	J	5600	650
84-66-2	Diethyl phthalate	1870	J	5600	720
131-11-3	Dimethyl phthalate	1940	J	5600	650
84-74-2	Di-n-butyl phthalate	1800	J	5600	950
117-84-0	Di-n-octyl phthalate	4070	J	5600	650
206-44-0	Fluoranthene	4650	J	5600	590
86-73-7	Fluorene	2230	J	5600	650
118-74-1	Hexachlorobenzene	2270	J	5600	750
87-68-3	Hexachlorobutadiene	1880	J	5600	820
77-47-4	Hexachlorocyclopentadiene	2670	J	5600	750
67-72-1	Hexachloroethane	1560	J	5600	720
193-39-5	Indeno[1,2,3-cd]pyrene	4630	J	5600	690
78-59-1	Isophorone	1840	J	5600	1200
91-20-3	Naphthalene	2120	J	5600	720
98-95-3	Nitrobenzene	1880	J	5600	620
621-64-7	N-Nitrosodi-n-propylamine	1570	J	5600	950
86-30-6	N-Nitrosodiphenylamine	5600	U	5600	4500
87-86-5	Pentachlorophenol	7350	J	11000	5600
85-01-8	Phenanthrene	3930	J	5600	820
108-95-2	Phenol	1950	J	5600	850
129-00-0	Pyrene	4160	J	5600	650

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>460-110715-1</u>
SDG No.: _____	
Client Sample ID: <u>C3 MSD</u>	Lab Sample ID: <u>460-110715-1 MSD</u>
Matrix: <u>Solid</u>	Lab File ID: <u>U25866.D</u>
Analysis Method: <u>8270D</u>	Date Collected: <u>03/18/2016 12:15</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>03/29/2016 16:12</u>
Sample wt/vol: <u>19.30(g)</u>	Date Analyzed: <u>03/30/2016 09:44</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>20</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>4.9</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>293176</u>	Units: <u>ug/Kg</u>

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	160	*	39-146
321-60-8	2-Fluorobiphenyl	80		37-120
367-12-4	2-Fluorophenol (Surr)	72		18-120
4165-60-0	Nitrobenzene-d5 (Surr)	64		34-132
4165-62-2	Phenol-d5 (Surr)	72		11-120
1718-51-0	p-Terphenyl-d14 (Surr)	74		65-153

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160330-51640.b\U25866.D
 Lims ID: 460-110715-B-1-C MSD
 Client ID:
 Sample Type: MSD
 Inject. Date: 30-Mar-2016 09:44:30 ALS Bottle#: 12 Worklist Smp#: 12
 Injection Vol: 1.0 ul Dil. Factor: 20.0000
 Sample Info: 480-0051640-012
 Misc. Info.: 480-97201-A-1-A
 Operator ID: CAS Instrument ID: HP5973U
 Method: \\ChromNA\Buffalo\ChromData\HP5973U\20160330-51640.b\U-8270.m
 Limit Group: MB - 8270D ICAL
 Last Update: 04-Apr-2016 15:26:08 Calib Date: 15-Mar-2016 21:31:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U25648.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK003

First Level Reviewer: richardsd

Date: 30-Mar-2016 13:22:46

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.980	6.980	0.000	96	118722	2.00	40.0	
* 2 Naphthalene-d8	136	8.497	8.497	0.000	100	458569	2.00	40.0	
* 3 Acenaphthene-d10	164	10.559	10.559	0.000	98	250197	2.00	40.0	
* 4 Phenanthrene-d10	188	12.071	12.071	0.000	98	425571	2.00	40.0	
* 5 Chrysene-d12	240	14.507	14.507	0.000	97	516742	2.00	40.0	
* 6 Perylene-d12	264	16.179	16.179	0.000	97	586327	2.00	40.0	
\$ 9 2-Fluorophenol	112	5.404	5.404	0.000	92	5930	2.00	1.45	
\$ 10 Phenol-d5	99	6.499	6.505	-0.006	85	7169	2.00	1.43	
\$ 11 Nitrobenzene-d5	82	7.626	7.627	-0.001	92	5801	2.00	1.27	
\$ 12 2-Fluorobiphenyl	172	9.763	9.763	0.000	98	13366	2.00	1.60	
\$ 13 2,4,6-Tribromophenol	330	11.382	11.388	-0.006	1	1920	2.00	3.20	
\$ 14 p-Terphenyl-d14	244	13.492	13.498	-0.006	54	16908	2.00	1.49	
22 N-Methylaniline	1		0.700					ND	
71 Chlorotoluene N.O.S	1		0.700					ND	
58 Chlorobenzotrifluoride N.O	1		0.700					ND	
33 o-Anisidine	1		0.700					ND	
41 2-Chlorotoluene	91		0.700					ND	
59 Tricresyl phosphate	1		0.700					ND	
15 Lidocaine	1		0.700					ND	
75 3-Chloropyridine	1		0.700					ND	
63 5-Ethyl-5-phenyl barbituri	1		0.700					ND	
68 4-Chloropyridine	1		0.700					ND	
48 2-Chloropyridine	1		0.700					ND	
80 1,4-Dioxane	88	3.096	3.096	-0.011	9	2533	2.50	1.31	M
81 N-Nitrosodimethylamine	42	3.534	3.540	-0.006	95	3781	5.00	1.46	
82 Pyridine	52	3.641	3.636	0.005	88	4881	2.50	1.34	
248 Triethyl amine	86		3.980					ND	
83 2-Picoline	93		4.667					ND	
84 N-Nitrosomethylethylamine	88		4.774					ND	
31 Dimethylformamide	73		4.783					ND	
250 Acrylamide	71		5.094					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
85 Methyl methanesulfonate	80		5.153					ND	
86 N-Nitrosodiethylamine	102		5.671					ND	
87 Ethyl methanesulfonate	79		6.008					ND	
88 Benzaldehyde	77	6.451	6.457	-0.006	95	7689	5.00	7.59	
89 Phenol	94	6.515	6.521	-0.006	97	9422	2.50	1.79	
90 Aniline	93	6.574	6.579	-0.005	95	6730	2.50	1.05	
91 Bis(2-chloroethyl)ether	93	6.627	6.628	-0.001	96	7660	2.50	1.78	
92 Pentachloroethane	167		6.654					ND	
93 2-Chlorophenol	128	6.734	6.740	-0.006	96	7435	2.50	1.77	
258 n-Decane	57	6.766	6.766	0.000	98	8239	2.50	1.54	
94 1,3-Dichlorobenzene	146	6.921	6.921	0.000	95	8068	2.50	1.74	
95 1,4-Dichlorobenzene	146	7.001	7.001	-0.001	2	7854	2.50	1.69	
96 Benzyl alcohol	108	7.114	7.114	0.000	93	4305	2.50	1.61	
45 2-Aminopyridine	94		7.171					ND	
97 1,2-Dichlorobenzene	146	7.194	7.194	0.000	93	7632	2.50	1.75	
98 2-Methylphenol	108	7.236	7.242	-0.006	94	6182	2.50	1.65	
99 2,2'-oxybis[1-chloropropan	45	7.274	7.274	0.000	73	10815	2.50	1.80	
249 Indene	115	7.295	7.295	0.000	96	26051	5.00	3.48	
100 N-Nitrosopyrrolidine	100		7.391					ND	
102 4-Methylphenol	108	7.413	7.413	0.000	92	6428	2.50	1.64	
101 N-Nitrosodi-n-propylamine	70	7.418	7.424	-0.006	89	4344	2.50	1.44	
103 N-Nitrosomorpholine	56		7.434					ND	
104 Acetophenone	105	7.434	7.440	-0.006	97	9659	2.50	1.71	
105 2-Toluidine	106		7.482					ND	
73 4-Methylbenzenamine	106		7.488					ND	
106 Hexachloroethane	117	7.600	7.600	0.000	90	2626	2.50	1.43	
107 Nitrobenzene	77	7.648	7.648	0.000	87	7273	2.50	1.73	
109 N-Nitrosopiperidine	114		7.819					ND	
110 Isophorone	82	7.920	7.920	0.000	64	12724	2.50	1.69	
46 2,4-Dichlorotoluene	125		7.942					ND	
51 2-Chloroaniline	127		7.984					ND	
111 2-Nitrophenol	139	8.032	8.033	-0.001	85	3178	2.50	3.70	
112 2,4-Dimethylphenol	107	8.048	8.049	-0.001	91	6577	2.50	1.64	
53 1,3,5-Trichlorobenzene	180		8.059					ND	
116 o,o',o''-Triethylphosphoro	198		8.118					ND	
119 Benzoic acid	105	8.086	8.123	-0.037	1	2417	5.00	5.34	
113 Tetraethyl lead	237		8.134					ND	
115 Bis(2-chloroethoxy)methane	93	8.150	8.155	-0.005	97	9113	2.50	1.89	
118 alpha,alpha-Dimethyl phene	58		8.300					ND	
117 2,4-Dichlorophenol	162	8.316	8.316	0.000	89	5786	2.50	1.84	
66 4-Chlorophenol	128		8.412					ND	
120 1,2,4-Trichlorobenzene	180	8.422	8.428	-0.006	92	7119	2.50	1.96	
122 Alpha-Terpineol	59		8.503					ND	
121 Naphthalene	128	8.524	8.524	0.000	97	22508	2.50	1.95	
123 4-Chloroaniline	127	8.561	8.561	0.000	95	6269	2.50	1.27	
124 2,6-Dichlorophenol	162	8.583	8.583	0.000	93	5622	2.50	1.78	
125 Hexachloropropene	213		8.636					ND	
126 Hexachlorobutadiene	225	8.668	8.668	0.000	88	3848	2.50	1.73	
32 Quinoline	129		8.909					ND	
129 N-Nitrosodi-n-butylamine	84		8.941					ND	
127 Caprolactam	113	8.925	8.941	-0.016	1	3202	5.00	4.60	M
128 p-Phenylene diamine	108		8.967					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
131 4-Chloro-3-methylphenol	107	9.117	9.122	-0.005	90	5294	2.50	1.65	
132 Safrole, Total	162		9.213					ND	
259 2,4,5-Trichlorotoluene	159		9.299					ND	
133 2-Methylnaphthalene	142	9.341	9.347	-0.006	89	14053	2.50	1.90	
135 Phthalic anhydride	104		9.389					ND	
251 n,n'-Dimethylaniline	120		9.404					ND	
252 1-Methylnaphthalene	142	9.464	9.464	0.000	97	13272	2.50	1.90	
136 Hexachlorocyclopentadiene	237	9.544	9.544	0.000	9	3423	2.50	2.45	
138 1,2,4,5-Tetrachlorobenzene	216	9.550	9.550	0.000	95	6684	2.50	1.86	
262 1,2,3,4 -Tetrachlorobenzen	216	9.550	9.550	0.000	0	6684		NC	
261 2,3-Dichlorobenzenamine	161		9.673					ND	
139 2,4,6-Trichlorophenol	196	9.673	9.673	0.000	89	3723	2.50	3.10	
140 2,4,5-Trichlorophenol	196	9.721	9.721	0.000	90	3533	2.50	2.96	
142 Isosafrole	162		9.833					ND	
144 1,1'-Biphenyl	154	9.886	9.886	0.000	95	18134	2.50	2.02	
143 2-Chloronaphthalene	162	9.924	9.929	-0.005	96	14199	2.50	1.97	
254 1-Chloronaphthalene	162		9.956					ND	
145 2-Nitroaniline	65	10.020	10.020	0.000	78	2936	2.50	3.55	
42 1,4-Naphthoquinone	158		10.111					ND	
30 Dicyclohexylamine	138		10.127					ND	
146 1,4-Dinitrobenzene	168		10.159					ND	
147 Dimethyl phthalate	163	10.207	10.207	0.000	98	14062	2.50	1.78	
50 1,3-Dinitrobenzene	168	10.244	10.250	-0.006	82	1664	2.50	4.56	
148 2,6-Dinitrotoluene	165	10.282	10.282	0.000	92	2566	2.50	3.70	
149 Acenaphthylene	152	10.404	10.405	-0.001	98	19239	2.50	1.83	
150 3-Nitroaniline	138		10.479				ND	ND	
152 2,4-Dinitrophenol	184		10.592				ND	ND	
151 Acenaphthene	153	10.591	10.592	-0.001	96	13958	2.50	1.99	
153 4-Nitrophenol	109		10.645				ND	ND	
154 2,4-Dinitrotoluene	165	10.730	10.730	0.000	91	3263	2.50	4.02	
156 Pentachlorobenzene	250		10.741					ND	
155 Dibenzofuran	168	10.778	10.778	0.000	96	20366	2.50	2.02	
157 1-Naphthylamine	143		10.853					ND	
265 2,3,5,6-Tetrachlorophenol	232		10.858					ND	
158 2,3,4,6-Tetrachlorophenol	232	10.901	10.901	0.000	88	2781	2.50	3.39	
159 2-Naphthylamine	143		10.933					ND	
160 Diethyl phthalate	149	10.965	10.965	0.000	98	13183	2.50	1.72	
257 Hexadecane	57	10.976	10.976	0.000	96	10583	2.50	1.82	
163 Thionazin	97		11.056					ND	
162 4-Chlorophenyl phenyl ethe	204	11.115	11.115	0.000	89	7907	2.50	1.93	
165 N-Nitro-o-toluidine	152		11.126					ND	
164 4-Nitroaniline	138	11.131	11.131	0.000	87	2841	2.50	3.62	
161 Fluorene	166	11.136	11.136	0.000	95	16985	2.50	2.05	
29 Tributyl phosphate	99		11.163					ND	
166 4,6-Dinitro-2-methylphenol	198	11.163	11.163	0.000	84	2402	5.00	9.50	
167 N-Nitrosodiphenylamine	169	11.232	11.233	-0.001	97	11149	2.50	1.80	
169 Diphenylamine	169	11.232	11.233	-0.001	97	11149	2.13	1.53	
168 1,2-Diphenylhydrazine	77	11.281	11.281	0.000	98	14204		1.57	
170 Azobenzene	77	11.281	11.281	0.000	98	14204	2.50	1.57	
171 Sulfotepp	322		11.361					ND	
172 1,3,5-Trinitrobenzene	213		11.462					ND	
175 Phenacetin	108		11.516					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
173 Diallylate	43		11.516					ND	
174 Phorate	75		11.521					ND	
176 4-Bromophenyl phenyl ether	248	11.612	11.612	0.000	89	5334	2.50	2.08	
178 Dimethoate	87		11.687					ND	
179 Simazine	201		11.708					ND	
177 Hexachlorobenzene	284	11.708	11.708	0.000	94	6418	2.50	2.09	
180 Atrazine	200	11.735	11.735	0.000	91	8451	5.00	4.01	
182 4-Aminobiphenyl	169		11.863					ND	
181 Pentachlorophenol	266	11.884	11.890	-0.006	60	2179	5.00	6.74	
263 n-Octadecane	57	11.890	11.890	0.000	96	10304	2.50	1.73	
184 Pronamide	173		11.900					ND	
183 Pentachloronitrobenzene	237		11.906					ND	
187 Disulfoton	88		12.023					ND	
186 Dinoseb	211		12.034					ND	
185 Phenanthrene	178	12.093	12.098	-0.005	96	42798	2.50	3.60	
188 Anthracene	178	12.146	12.146	0.000	96	25021	2.50	2.05	
189 Carbazole	167	12.280	12.280	0.000	95	21916	2.50	1.96	
190 Methyl parathion	109		12.381					ND	
191 Alachlor	160		12.381					ND	
192 Di-n-butyl phthalate	149	12.541	12.541	0.000	100	21298	2.50	1.66	
264 2-Methylantracene	192	12.643	12.611	0.032	90	3347		NC	
193 Ethyl Parathion	97		12.728					ND	
194 4-Nitroquinoline-1-oxide	190		12.792					ND	
195 Methapyrilene	58		12.830					ND	
62 Anthraquinone	180		12.830					ND	
196 Isodrin	193		13.065					ND	
197 Fluoranthene	202	13.193	13.193	0.000	96	54860	2.50	4.27	
37 1-Hydroxyanthraquinone	224		13.214					ND	
198 Benzidine	184		13.268				ND	ND	
199 Pyrene	202	13.407	13.407	0.000	95	55039	2.50	3.82	
200 Aramite, Total	185		13.498					ND	
201 p-Dimethylamino azobenzene	120		13.615					ND	
202 Chlorobenzilate	139		13.642					ND	
34 1,4-Dihydroxyanthraquinone	240		13.642					ND	
204 Famphur	218		13.861					ND	
64 9-Octadecenamide	72		13.877					ND	
205 Butyl benzyl phthalate	149	13.893	13.893	0.000	96	11064	2.50	3.20	
203 3,3'-Dimethylbenzidine	212		13.914					ND	
206 Kepone	272		14.032					ND	
207 2-Acetylaminofluorene	181		14.155					ND	
210 Bis(2-ethylhexyl) phthalat	149	14.379	14.379	0.000	97	16761	2.50	2.01	
247 4,4'-Methylene bis(2-chlor	231		14.416					ND	
208 3,3'-Dichlorobenzidine	252	14.427	14.427	0.000	98	18269	5.00	5.15	
209 Benzo[a]anthracene	228	14.497	14.497	0.000	96	48519	2.50	3.28	
211 Chrysene	228	14.534	14.534	0.000	97	49412	2.50	3.46	
255 6-Methylchrysene	242		14.988					ND	
212 Di-n-octyl phthalate	149	15.009	15.009	0.005	99	26751	2.50	3.73	
215 7,12-Dimethylbenz(a)anthra	256		15.640					ND	
213 Benzo[b]fluoranthene	252	15.672	15.672	0.000	97	55405	2.50	3.23	
214 Benzo[k]fluoranthene	252	15.699	15.704	-0.005	98	44230	2.50	2.51	
216 Hexachlorophene	196		15.720					ND	
260 Benzo[e]pyrene	252	16.035	16.041	-0.006	98	12092		NC	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
217 Benzo[a]pyrene	252	16.105	16.110	-0.005	97	48251	2.50	3.00	
218 3-Methylcholanthrene	252		16.564					ND	
237 Dibenz[a,h]acridine	279		17.424					ND	
220 Dibenz(a,h)anthracene	278	17.862	17.873	-0.011	88	37884	2.50	3.95	
219 Indeno[1,2,3-cd]pyrene	276	17.868	17.884	-0.016	96	52858	2.50	4.25	
221 Benzo[g,h,i]perylene	276	18.391	18.407	-0.016	97	48025	2.50	4.43	
72 4-Chlorobenzotrifluoride	1		0.700					ND	
269 2,4-Dichlorotoluene TIC	1		0.700					ND	
277 4-Chloro-3-nitro-alpha,alp	1		0.700					ND	
283 2,4'-DDT	1		0.700					ND	
21 2-Chlorobenzotrifluoride	1		0.700					ND	
239 Benzo[j]fluoranthene	1		0.700					ND	
234 7H-Dibenzo[c,g]carbazole	1		0.700					ND	
267 4-Chlorobenzotrifluoride T	1		0.700					ND	
266 2,6-Dichlorotoluene TIC	1		0.700					ND	
268 2-Chlorobenzotrifluoride T	1		0.700					ND	
40 1-Methylcyclopentanol	1		0.700					ND	
280 Photomirex TIC	1		0.700					ND	
246 Phenylmercaptan	110		0.700					ND	
76 3-Chlorobenzotrifluoride	1		0.700					ND	
17 CN-500	1		0.700					ND	
23 n,n'-Dimethylacetamide	1		0.700					ND	
274 Phenyl ether	1		0.700					ND	
227 CBF-500	1		0.700					ND	
225 CBF-400	1		0.700					ND	
74 3-Chlorotoluene	1		0.700					ND	
56 Benzeneacetic acid (TIC)	1		0.700					ND	
281 2,4'-DDE	1		0.700					ND	
67 4-Chlorotoluene	91		0.700					ND	
241 2,4-Toluene diamine	1		0.700					ND	
52 2,6-Dichlorotoluene	1		0.700					ND	
27 Pendimethalin	1		0.700					ND	
229 1,3-phenylenediamine TIC	1		0.700					ND	
224 5-Methyl-o-Anisidine TIC	1		0.700					ND	
236 Dibenz[a,j]acridine	279		0.700					ND	
238 Dibenzo[a,h]pyrene	1		0.700					ND	
70 Phenylacetic Acid	1		0.700					ND	
54 p-Fluoroaniline	1		0.700					ND	
49 2,6-Dichloropyridine	1		0.700					ND	
242 alpha,alpha-Dimethyl phene	1		0.700					ND	
19 NVF-400	1		0.700					ND	
24 Dibenzo[a,e]pyrene	1		0.700					ND	
244 Hexamethyldisiloxane TIC	1		0.700					ND	
245 1-Bromopropane	1		0.700					ND	
57 5-Methyl-o-Anisidine	1		0.700					ND	
230 2,4-Xylidine TIC	1		0.700					ND	
226 Tris(2,3-dibromopropyl)pho	1		0.700					ND	
36 2,3-Dichlorophenol	1		0.700					ND	
273 4-tert-Octylphenol	1		0.700					ND	
240 Dibenz(a,i)pyrene	1		0.700					ND	
18 CU-600	1		0.700					ND	
61 CAG-800	1		0.700					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
235 Octachlorostyrene	1		0.700					ND	
270 3-Chlorobenzotrifluoride T	1		0.700					ND	
228 o-Anisidine TIC	1		0.700					ND	
60 Benzeneacetonitrile	1		0.700					ND	
282 2,4'-DDD	235		0.700					ND	
272 Benzophenone	1		0.700					ND	
279 1,4-Dioxane TIC	1		0.700					ND	
232 4,4'-Methylene bis(2-chlor	1		0.700					ND	
243 Tetramethyl lead TIC	1		0.700					ND	
275 1,2,3-Trimethylbenzene	105		0.700					ND	
108 Pentachlorophenol_T	266	11.884	11.884	0.000	60	2179		NR	
130 Benzidine_T	184		13.273					ND	
134 4,4'-DDE	246		13.548					ND	
137 4,4'-DDD	235		13.781					ND	
141 4,4'-DDT	235		14.021					ND	
S 222 Total Cresols	1				0			3.29	
S 77 3 & 4 Methylphenol	108				0			1.64	
S 78 3-Methylphenol	1				0		2.50	1.64	
S 233 EPH Adjustment 1	1		0.700					ND	
T 25 Prometryn (TIC)	1		0.700					ND	
T 65 Benefin (TIC)	1		0.700					ND	
T 28 Pendimethalin (TIC)	1		0.700					ND	
T 26 trans Azobenzene (TIC)	77	11.281	0.700	10.581	91	14204		2.27	
T 38 1-Methylnaphthalene (TIC)	142	9.341	0.700	8.641	90	14053		2.25	
T 231 2,3,7,8-TCDD	322		10.700					ND	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

NC - Not Calibrated

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

MB_INTSTD_STK_00019

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160330-51640.b\U25866.D

Injection Date: 30-Mar-2016 09:44:30

Instrument ID: HP5973U

Operator ID: CAS

Lims ID: 460-110715-B-1-C MSD

Worklist Smp#: 12

Client ID:

Injection Vol: 1.0 ul

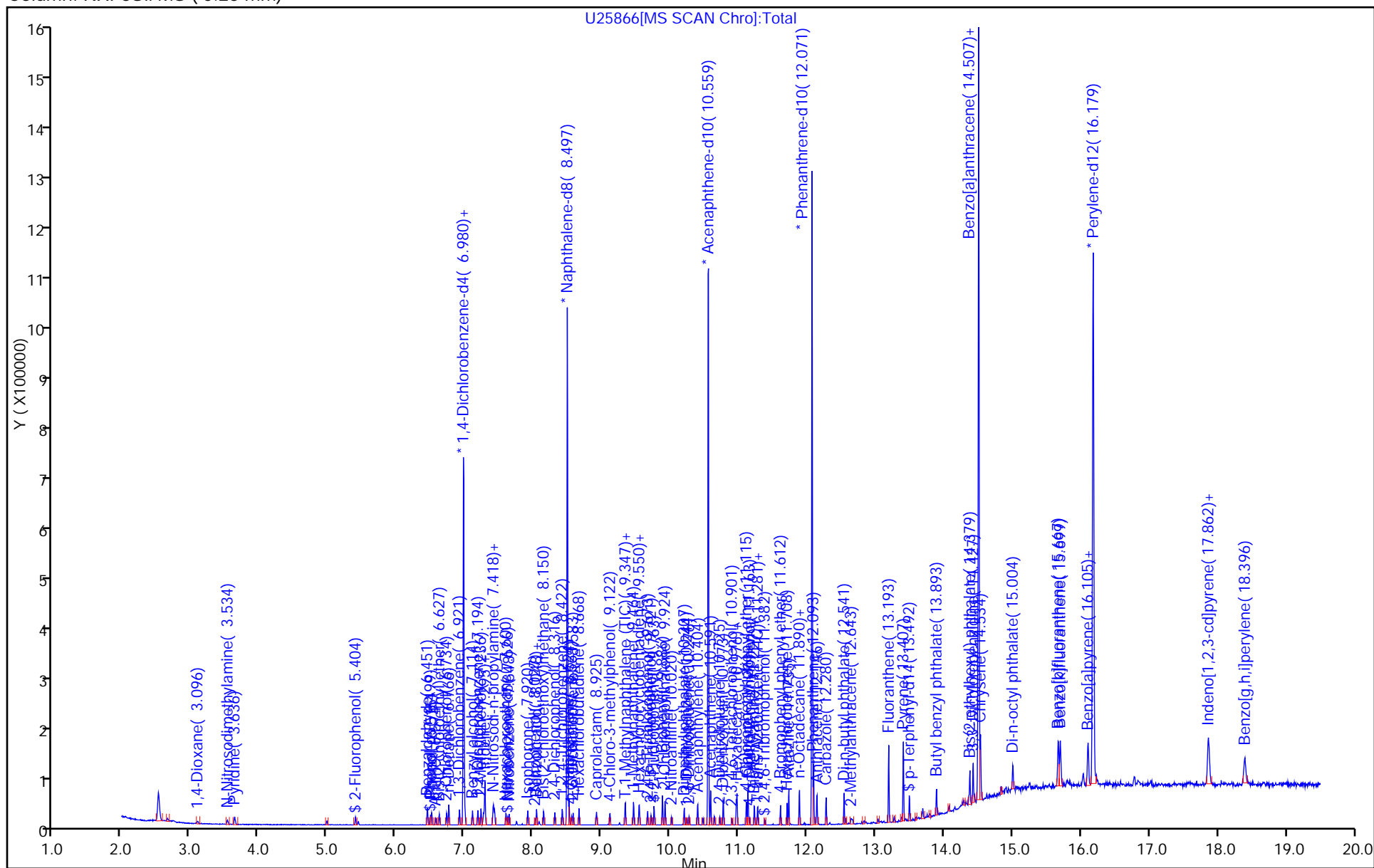
Dil. Factor: 20.0000

ALS Bottle#: 12

Method: U-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160330-51640.b\U25866.D

Injection Date: 30-Mar-2016 09:44:30

Instrument ID: HP5973U

Lims ID: 460-110715-B-1-C MSD

Client ID:

Operator ID: CAS

ALS Bottle#:

12

Worklist Smp#: 12

Injection Vol: 1.0 ul

Dil. Factor: 20.0000

Method: U-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

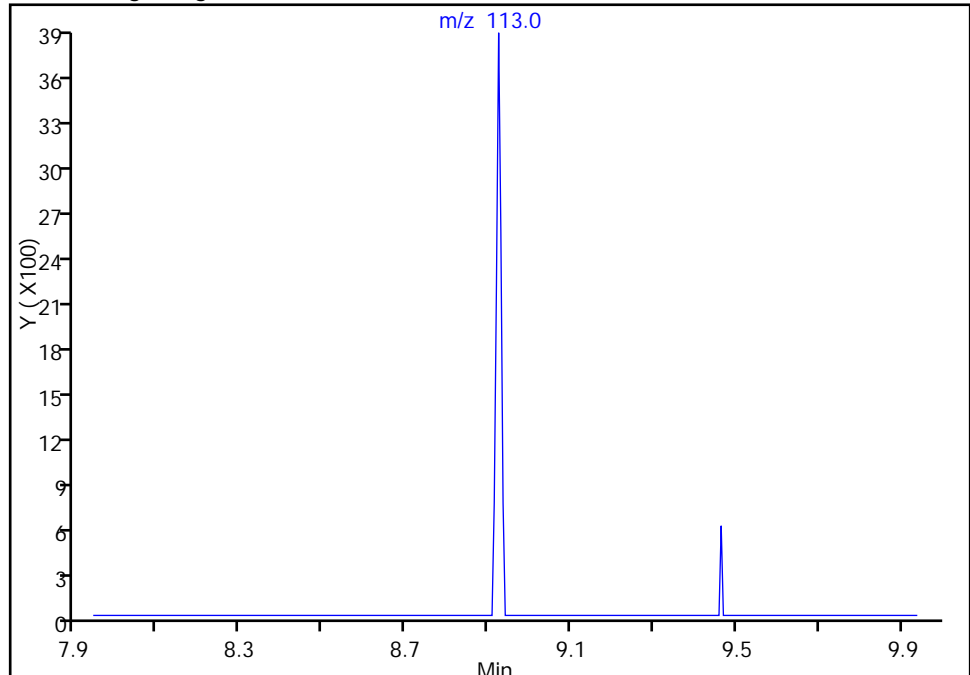
Detector: MS SCAN

127 Caprolactam, CAS: 105-60-2

Not Detected

Expected RT: 8.94

Processing Integration Results



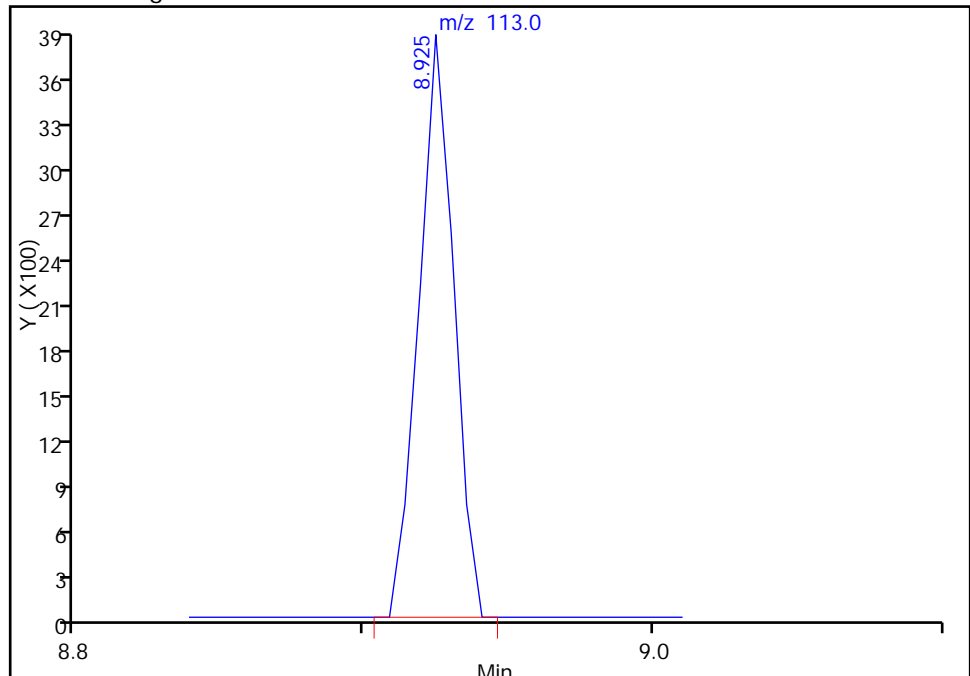
RT: 8.92

Area: 3202

Amount: 4.602205

Amount Units: ng/uL

Manual Integration Results



Reviewer: richardsd, 30-Mar-2016 13:22:46

Audit Action: Manually Integrated

Audit Reason: Assign Peak

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica BuffaloJob No.: 460-110715-1

SDG No.: _____

Instrument ID: HP5973UStart Date: 03/15/2016 11:02Analysis Batch Number: 290883End Date: 03/15/2016 22:25

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 480-290883/2		03/15/2016 11:02	1	U25625.D	RXI-5Sil MS 0.25 (mm)
IC 480-290883/3		03/15/2016 11:37	1	U25626.D	RXI-5Sil MS 0.25 (mm)
IC 480-290883/4		03/15/2016 12:04	1	U25627.D	RXI-5Sil MS 0.25 (mm)
ICIS 480-290883/5		03/15/2016 12:31	1	U25628.D	RXI-5Sil MS 0.25 (mm)
IC 480-290883/6		03/15/2016 12:57	1	U25629.D	RXI-5Sil MS 0.25 (mm)
IC 480-290883/7		03/15/2016 13:24	1	U25630.D	RXI-5Sil MS 0.25 (mm)
IC 480-290883/8		03/15/2016 13:51	1	U25631.D	RXI-5Sil MS 0.25 (mm)
ICV 480-290883/9		03/15/2016 14:18	1	U25632.D	RXI-5Sil MS 0.25 (mm)
IC 480-290883/10		03/15/2016 14:45	1		RXI-5Sil MS 0.25 (mm)
IC 480-290883/11		03/15/2016 15:13	1		RXI-5Sil MS 0.25 (mm)
IC 480-290883/12		03/15/2016 15:40	1		RXI-5Sil MS 0.25 (mm)
IC 480-290883/13		03/15/2016 16:07	1		RXI-5Sil MS 0.25 (mm)
IC 480-290883/14		03/15/2016 16:35	1		RXI-5Sil MS 0.25 (mm)
IC 480-290883/15		03/15/2016 17:02	1		RXI-5Sil MS 0.25 (mm)
ICV 480-290883/16		03/15/2016 17:29	1		RXI-5Sil MS 0.25 (mm)
IC 480-290883/17		03/15/2016 17:56	1		RXI-5Sil MS 0.25 (mm)
IC 480-290883/18		03/15/2016 18:23	1		RXI-5Sil MS 0.25 (mm)
IC 480-290883/19		03/15/2016 18:50	1		RXI-5Sil MS 0.25 (mm)
IC 480-290883/20		03/15/2016 19:17	1		RXI-5Sil MS 0.25 (mm)
IC 480-290883/21		03/15/2016 19:44	1		RXI-5Sil MS 0.25 (mm)
IC 480-290883/22		03/15/2016 20:11	1		RXI-5Sil MS 0.25 (mm)
IC 480-290883/23		03/15/2016 20:38	1		RXI-5Sil MS 0.25 (mm)
IC 480-290883/24		03/15/2016 21:04	1		RXI-5Sil MS 0.25 (mm)
IC 480-290883/25		03/15/2016 21:31	1		RXI-5Sil MS 0.25 (mm)
CCVIS 480-290883/27		03/15/2016 22:25	1		RXI-5Sil MS 0.25 (mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica BuffaloJob No.: 460-110715-1

SDG No.: _____

Instrument ID: HP5973UStart Date: 03/30/2016 05:17Analysis Batch Number: 293176End Date: 03/30/2016 17:17

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 480-293176/2		03/30/2016 05:17	1	U25856.D	RXI-5Sil MS 0.25 (mm)
CCVIS 480-293176/3		03/30/2016 05:44	1	U25857.D	RXI-5Sil MS 0.25 (mm)
RL 480-293176/4		03/30/2016 06:10	1		RXI-5Sil MS 0.25 (mm)
CCV 480-293176/5		03/30/2016 06:38	1		RXI-5Sil MS 0.25 (mm)
RL 480-293176/6		03/30/2016 07:05	1		RXI-5Sil MS 0.25 (mm)
CCV 480-293176/7		03/30/2016 07:31	1		RXI-5Sil MS 0.25 (mm)
RL 480-293176/8		03/30/2016 07:58	1		RXI-5Sil MS 0.25 (mm)
MB 480-293139/1-A		03/30/2016 08:24	1	U25863.D	RXI-5Sil MS 0.25 (mm)
LCS 480-293139/2-A		03/30/2016 08:51	1	U25864.D	RXI-5Sil MS 0.25 (mm)
460-110715-1 MS		03/30/2016 09:17	20	U25865.D	RXI-5Sil MS 0.25 (mm)
460-110715-1 MSD		03/30/2016 09:44	20	U25866.D	RXI-5Sil MS 0.25 (mm)
460-110715-1		03/30/2016 10:10	20	U25867.D	RXI-5Sil MS 0.25 (mm)
460-110715-2		03/30/2016 10:37	20	U25868.D	RXI-5Sil MS 0.25 (mm)
ZZZZZ		03/30/2016 11:03	5		RXI-5Sil MS 0.25 (mm)
ZZZZZ		03/30/2016 11:30	20		RXI-5Sil MS 0.25 (mm)
ZZZZZ		03/30/2016 11:57	1		RXI-5Sil MS 0.25 (mm)
ZZZZZ		03/30/2016 12:23	1		RXI-5Sil MS 0.25 (mm)
ZZZZZ		03/30/2016 12:50	1		RXI-5Sil MS 0.25 (mm)
ZZZZZ		03/30/2016 13:17	1		RXI-5Sil MS 0.25 (mm)
ZZZZZ		03/30/2016 13:43	1		RXI-5Sil MS 0.25 (mm)
ZZZZZ		03/30/2016 14:10	1		RXI-5Sil MS 0.25 (mm)
ZZZZZ		03/30/2016 14:37	1		RXI-5Sil MS 0.25 (mm)
ZZZZZ		03/30/2016 15:04	1		RXI-5Sil MS 0.25 (mm)
ZZZZZ		03/30/2016 15:30	1		RXI-5Sil MS 0.25 (mm)
ZZZZZ		03/30/2016 15:57	1		RXI-5Sil MS 0.25 (mm)
ZZZZZ		03/30/2016 16:24	1		RXI-5Sil MS 0.25 (mm)
ZZZZZ		03/30/2016 16:51	1		RXI-5Sil MS 0.25 (mm)
ZZZZZ		03/30/2016 17:17	1		RXI-5Sil MS 0.25 (mm)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 460-110715-1

SDG No.: _____

Batch Number: 293139 Batch Start Date: 03/29/16 16:11 Batch Analyst: Wright, Allicia VBatch Method: 3546 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	O_8270/625LCS 00059	O_8270surr 00040	AnalysisComment	
MB 480-293139/1		3546, 8270D		30.16 g	1 mL		1 mL		
LCS 480-293139/2		3546, 8270D		30.88 g	1 mL	1 mL	1 mL		
460-110715-B-1 MS	C3	3546, 8270D	T	30.31 g	1 mL	1 mL	1 mL		
460-110715-B-1 MSD	C3	3546, 8270D	T	19.30 g	1 mL	1 mL	1 mL	Insufficient sample remaining for full initial amount	
460-110715-B-1	C3	3546, 8270D	T	30.28 g	1 mL		1 mL		
460-110715-B-2	C4	3546, 8270D	T	30.76 g	1 mL		1 mL		

Batch Notes	
Acetone ID	3271917
Balance ID	40029
Analyst ID - Concentration	AW IL
Filter Paper ID	9648520
Final Concentrator Volume	1 mL
MeCL2 ID	3270790
MeCl2 / Acetone ID	3270790/3271917
Microwave Start Time	2:30
Microwave Stop Time	3:20
Na2SO4 ID	3261621
Ottawa Sand ID	3249333
Person's name who did the prep	AW
Solvent Lot #	3270789/3271913
Solvent Name	1:1 Methylene Chloride/Acetone
Analyst ID - Spike Analyst	AW
Analyst ID - Spike Witness Analyst	AW
Vial ID	68828

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 460-110715-1

SDG No.: _____

Batch Number: 293139 Batch Start Date: 03/29/16 16:11 Batch Analyst: Wright, Allicia VBatch Method: 3546 Batch End Date: _____

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS

COVER PAGE
METALS

Lab Name: TestAmerica Edison Job Number: 460-110715-1

SDG No.: _____

Project: DEC Elmont546; Site: E130150

Client Sample ID	Lab Sample ID
<u>C3</u>	<u>460-110715-1</u>
<u>C4</u>	<u>460-110715-2</u>

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: C3	Lab Sample ID: 460-110715-1
Lab Name: TestAmerica Edison	Job No.: 460-110715-1
SDG ID.:	
Matrix: Solid	Date Sampled: 03/18/2016 12:15
Reporting Basis: DRY	Date Received: 03/18/2016 17:30
% Solids: 95.1	

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	3800	33.4	17.2	mg/Kg			4	6010C
7440-36-0	Antimony	3.3	3.3	1.3	mg/Kg	U		4	6010C
7440-38-2	Arsenic	3.8	2.5	0.82	mg/Kg			4	6010C
7440-39-3	Barium	307	33.4	1.2	mg/Kg			4	6010C
7440-41-7	Beryllium	0.33	0.33	0.28	mg/Kg	U		4	6010C
7440-43-9	Cadmium	0.93	0.67	0.35	mg/Kg			4	6010C
7440-70-2	Calcium	654	834	49.4	mg/Kg	J		4	6010C
7440-47-3	Chromium	11.4	1.7	0.81	mg/Kg			4	6010C
7440-48-4	Cobalt	3.8	8.3	0.96	mg/Kg	J		4	6010C
7440-50-8	Copper	31.7	4.2	1.1	mg/Kg			4	6010C
7439-89-6	Iron	17800	25.0	18.9	mg/Kg			4	6010C
7439-92-1	Lead	1520	1.7	0.65	mg/Kg			4	6010C
7439-95-4	Magnesium	715	834	41.6	mg/Kg	J		4	6010C
7439-96-5	Manganese	239	2.5	0.88	mg/Kg			4	6010C
7440-02-0	Nickel	14.7	6.7	1.2	mg/Kg			4	6010C
7440-09-7	Potassium	305	834	25.3	mg/Kg	J		4	6010C
7782-49-2	Selenium	3.3	3.3	1.2	mg/Kg	U		4	6010C
7440-22-4	Silver	0.32	1.7	0.29	mg/Kg	J		4	6010C
7440-23-5	Sodium	834	834	56.5	mg/Kg	U		4	6010C
7440-28-0	Thallium	3.3	3.3	1.5	mg/Kg	U		4	6010C
7440-62-2	Vanadium	9.5	8.3	0.83	mg/Kg			4	6010C
7440-66-6	Zinc	514	5.0	1.2	mg/Kg			4	6010C

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: C4	Lab Sample ID: 460-110715-2
Lab Name: TestAmerica Edison	Job No.: 460-110715-1
SDG ID.:	
Matrix: Solid	Date Sampled: 03/18/2016 12:20
Reporting Basis: DRY	Date Received: 03/18/2016 17:30
% Solids: 84.5	

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	4230	38.5	19.8	mg/Kg			4	6010C
7440-36-0	Antimony	3.8	3.8	1.5	mg/Kg	U		4	6010C
7440-38-2	Arsenic	8.6	2.9	0.95	mg/Kg			4	6010C
7440-39-3	Barium	223	38.5	1.4	mg/Kg			4	6010C
7440-41-7	Beryllium	0.38	0.38	0.33	mg/Kg	U		4	6010C
7440-43-9	Cadmium	0.87	0.77	0.40	mg/Kg			4	6010C
7440-70-2	Calcium	1920	962	56.9	mg/Kg			4	6010C
7440-47-3	Chromium	17.1	1.9	0.93	mg/Kg			4	6010C
7440-48-4	Cobalt	5.3	9.6	1.1	mg/Kg	J		4	6010C
7440-50-8	Copper	34.8	4.8	1.3	mg/Kg			4	6010C
7439-89-6	Iron	25700	28.9	21.7	mg/Kg			4	6010C
7439-92-1	Lead	1170	1.9	0.75	mg/Kg			4	6010C
7439-95-4	Magnesium	1070	962	48.0	mg/Kg			4	6010C
7439-96-5	Manganese	224	2.9	1.0	mg/Kg			4	6010C
7440-02-0	Nickel	20.9	7.7	1.4	mg/Kg			4	6010C
7440-09-7	Potassium	223	962	29.1	mg/Kg	J		4	6010C
7782-49-2	Selenium	3.8	3.8	1.3	mg/Kg	U		4	6010C
7440-22-4	Silver	0.70	1.9	0.34	mg/Kg	J		4	6010C
7440-23-5	Sodium	962	962	65.1	mg/Kg	U		4	6010C
7440-28-0	Thallium	3.8	3.8	1.7	mg/Kg	U		4	6010C
7440-62-2	Vanadium	12.1	9.6	0.96	mg/Kg			4	6010C
7440-66-6	Zinc	356	5.8	1.4	mg/Kg			4	6010C

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Edison Job No.: 460-110715-1

SDG No.: _____

ICV Source: ME_CCV_DUO_00154 Concentration Units: ug/L

CCV Source: ME_CCV_DUO_00154

Analyte	ICV 460-359578/7 03/29/2016 15:40				CCV 460-359578/46 03/29/2016 18:25				CCV 460-359578/59 03/29/2016 19:14			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	128500		125000	103	129000		125000	103	127500		125000	102
Antimony	1010		1000	101	1016		1000	102	1015		1000	102
Arsenic	2509		2500	100	2509		2500	100	2492		2500	100
Barium	10290		10000	103	10330		10000	103	10180		10000	102
Beryllium	1039		1000	104	1045		1000	105	1056		1000	106
Cadmium	1281		1250	102	1288		1250	103	1283		1250	103
Calcium	126600		125000	101	127900		125000	102	129000		125000	103
Chromium	5138		5000	103	5164		5000	103	5123		5000	102
Cobalt	2564		2500	103	2581		2500	103	2575		2500	103
Copper	12620		12500	101	12710		12500	102	12800		12500	102
Iron	102700		100000	103	102900		100000	103	101800		100000	102
Lead	7714		7500	103	7735		7500	103	7582		7500	101
Magnesium	126500		125000	101	126800		125000	101	126800		125000	101
Manganese	5108		5000	102	5158		5000	103	5226		5000	105
Nickel	2575		2500	103	2581		2500	103	2541		2500	102
Potassium	51130		50000	102	51410		50000	103	51830		50000	104
Selenium	2527		2500	101	2527		2500	101	2491		2500	100
Silver	1261		1250	101	1265		1250	101	1240		1250	99
Sodium	127600		125000	102	128300		125000	103	127200		125000	102
Thallium	2592		2500	104	2583		2500	103	2494		2500	100
Vanadium	2520		2500	101	2549		2500	102	2588		2500	104
Zinc	2566		2500	103	2563		2500	103	2500		2500	100

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Edison Job No.: 460-110715-1

SDG No.: _____

ICV Source: ME_CCV_DUO_00154 Concentration Units: ug/L

CCV Source: ME_CCV_DUO_00154

Analyte	CCV 460-359578/72 03/29/2016 20:04				CCV 460-359578/85 03/29/2016 20:54							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	127300		125000	102	126300		125000	101				
Antimony	1027		1000	103	1011		1000	101				
Arsenic	2502		2500	100	2441		2500	98				
Barium	10190		10000	102	10040		10000	100				
Beryllium	1068		1000	107	1067		1000	107				
Cadmium	1290		1250	103	1269		1250	102				
Calcium	128500		125000	103	127100		125000	102				
Chromium	5095		5000	102	5025		5000	101				
Cobalt	2597		2500	104	2570		2500	103				
Copper	12840		12500	103	12680		12500	101				
Iron	100700		100000	101	98750		100000	99				
Lead	7566		7500	101	7426		7500	99				
Magnesium	125900		125000	101	124000		125000	99				
Manganese	5220		5000	104	5171		5000	103				
Nickel	2544		2500	102	2502		2500	100				
Potassium	52200		50000	104	52180		50000	104				
Selenium	2510		2500	100	2436		2500	97				
Silver	1230		1250	98	1210		1250	97				
Sodium	127100		125000	102	126200		125000	101				
Thallium	2497		2500	100	2431		2500	97				
Vanadium	2583		2500	103	2558		2500	102				
Zinc	2478		2500	99	2420		2500	97				

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Edison

Job No.: 460-110715-1

SDG No.: _____

ICV Source: ME_Cal2_BC_00009

Concentration Units: ug/L

CCV Source: ME_Cal2_BC_00009

Analyte	ICVL 460-359578/9 03/29/2016 15:49				CCVL 460-359578/48 03/29/2016 18:33				CCVL 460-359578/61 03/29/2016 19:22			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	225.4		200	113	215.3		200	108	229.8		200	115
Antimony	21.23		20.0	106	20.04		20.0	100	19.66	J	20.0	98
Arsenic	16.10		15.0	107	13.93	J	15.0	93	13.87	J	15.0	92
Barium	221.1		200	111	217.3		200	109	215.8		200	108
Beryllium	2.01		2.00	100	2.18		2.00	109	2.10		2.00	105
Cadmium	4.39		4.00	110	4.40		4.00	110	4.31		4.00	108
Calcium	5260		5000	105	5334		5000	107	5146		5000	103
Chromium	11.23		10.0	112	10.60		10.0	106	10.54		10.0	105
Cobalt	55.85		50.0	112	55.73		50.0	111	55.36		50.0	111
Copper	25.64		25.0	103	26.10		25.0	104	25.12		25.0	100
Iron	172.4		150	115	162.1		150	108	162.0		150	108
Lead	10.95		10.0	110	10.10		10.0	101	10.29		10.0	103
Magnesium	5247		5000	105	5245		5000	105	5042		5000	101
Manganese	16.61		15.0	111	16.83		15.0	112	16.25		15.0	108
Nickel	45.57		40.0	114	44.48		40.0	111	44.50		40.0	111
Potassium	5092		5000	102	5083		5000	102	5146		5000	103
Selenium	20.14		20.0	101	19.10	J	20.0	96	16.87	J	20.0	84
Silver	10.17		10.0	102	10.35		10.0	104	10.27		10.0	103
Sodium	5207		5000	104	5127		5000	103	5098		5000	102
Thallium	24.48		20.0	122	22.95		20.0	115	23.44		20.0	117
Vanadium	52.59		50.0	105	53.77		50.0	108	51.42		50.0	103
Zinc	33.18		30.0	111	32.44		30.0	108	31.65		30.0	106

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Edison Job No.: 460-110715-1

SDG No.: _____

ICV Source: ME_Cal2_BC_00009 Concentration Units: ug/L

CCV Source: ME_Cal2_BC_00009

Analyte	CCVL 460-359578/74 03/29/2016 20:12				CCVL 460-359578/87 03/29/2016 21:01							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	225.8		200	113	230.5		200	115				
Antimony	20.70		20.0	104	19.36	J	20.0	97				
Arsenic	14.46	J	15.0	96	14.41	J	15.0	96				
Barium	215.5		200	108	212.5		200	106				
Beryllium	2.11		2.00	106	2.20		2.00	110				
Cadmium	4.35		4.00	109	4.46		4.00	111				
Calcium	5191		5000	104	5212		5000	104				
Chromium	10.33		10.0	103	10.79		10.0	108				
Cobalt	55.63		50.0	111	55.33		50.0	111				
Copper	25.94		25.0	104	25.92		25.0	104				
Iron	161.6		150	108	163.0		150	109				
Lead	11.69		10.0	117	10.81		10.0	108				
Magnesium	5038		5000	101	5035		5000	101				
Manganese	16.41		15.0	109	16.42		15.0	109				
Nickel	44.30		40.0	111	44.04		40.0	110				
Potassium	5215		5000	104	5171		5000	103				
Selenium	18.73	J	20.0	94	17.49	J	20.0	87				
Silver	10.58		10.0	106	10.44		10.0	104				
Sodium	5139		5000	103	5107		5000	102				
Thallium	22.53		20.0	113	21.46		20.0	107				
Vanadium	52.59		50.0	105	52.33		50.0	105				
Zinc	31.03		30.0	103	30.71		30.0	102				

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Edison Job No.: 460-110715-1

SDG No.: _____

Concentration Units: ug/L

Analyte	RL	ICB 460-359578/8 03/29/2016 15:44		CCB 460-359578/47 03/29/2016 18:29		CCB 460-359578/60 03/29/2016 19:18		CCB 460-359578/73 03/29/2016 20:08	
		Found	C	Found	C	Found	C	Found	C
Aluminum	200	200	U	200	U	200	U	200	U
Antimony	20.0	20.0	U	20.0	U	20.0	U	20.0	U
Arsenic	15.0	15.0	U	15.0	U	15.0	U	15.0	U
Barium	200	200	U	200	U	200	U	200	U
Beryllium	2.0	2.0	U	2.0	U	2.0	U	2.0	U
Cadmium	4.0	4.0	U	4.0	U	4.0	U	4.0	U
Calcium	5000	5000	U	5000	U	5000	U	5000	U
Chromium	10.0	10.0	U	10.0	U	10.0	U	10.0	U
Cobalt	50.0	50.0	U	50.0	U	50.0	U	50.0	U
Copper	25.0	25.0	U	25.0	U	25.0	U	25.0	U
Iron	150	150	U	150	U	150	U	150	U
Lead	10.0	10.0	U	10.0	U	10.0	U	10.0	U
Magnesium	5000	5000	U	5000	U	5000	U	5000	U
Manganese	15.0	15.0	U	15.0	U	15.0	U	15.0	U
Nickel	40.0	40.0	U	40.0	U	40.0	U	40.0	U
Potassium	5000	5000	U	5000	U	5000	U	5000	U
Selenium	20.0	20.0	U	20.0	U	20.0	U	20.0	U
Silver	10.0	10.0	U	10.0	U	10.0	U	10.0	U
Sodium	5000	5000	U	5000	U	5000	U	5000	U
Thallium	20.0	20.0	U	20.0	U	20.0	U	20.0	U
Vanadium	50.0	50.0	U	50.0	U	50.0	U	50.0	U
Zinc	30.0	30.0	U	30.0	U	30.0	U	30.0	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Edison Job No.: 460-110715-1

SDG No.: _____

Concentration Units: ug/L

Analyte	RL	CCB 460-359578/86 03/29/2016 20:57							
		Found	C	Found	C	Found	C	Found	C
Aluminum	200	200	U						
Antimony	20.0	20.0	U						
Arsenic	15.0	15.0	U						
Barium	200	200	U						
Beryllium	2.0	2.0	U						
Cadmium	4.0	4.0	U						
Calcium	5000	5000	U						
Chromium	10.0	10.0	U						
Cobalt	50.0	50.0	U						
Copper	25.0	25.0	U						
Iron	150	150	U						
Lead	10.0	10.0	U						
Magnesium	5000	5000	U						
Manganese	15.0	15.0	U						
Nickel	40.0	40.0	U						
Potassium	5000	5000	U						
Selenium	20.0	20.0	U						
Silver	10.0	10.0	U						
Sodium	5000	5000	U						
Thallium	20.0	20.0	U						
Vanadium	50.0	50.0	U						
Zinc	30.0	30.0	U						

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Edison Job No.: 460-110715-1
 SDG No.: _____
 Concentration Units: mg/Kg Lab Sample ID: MB 460-359060/1-A ^2
 Instrument Code: ICP4 Batch No.: 359578

CAS No.	Analyte	Concentration	C	Q	Method
7429-90-5	Aluminum	20.0	U		6010C
7440-36-0	Antimony	2.0	U		6010C
7440-38-2	Arsenic	1.5	U		6010C
7440-39-3	Barium	20.0	U		6010C
7440-41-7	Beryllium	0.20	U		6010C
7440-43-9	Cadmium	0.40	U		6010C
7440-70-2	Calcium	500	U		6010C
7440-47-3	Chromium	1.0	U		6010C
7440-48-4	Cobalt	5.0	U		6010C
7440-50-8	Copper	2.5	U		6010C
7439-89-6	Iron	15.0	U		6010C
7439-92-1	Lead	1.0	U		6010C
7439-95-4	Magnesium	500	U		6010C
7439-96-5	Manganese	1.5	U		6010C
7440-02-0	Nickel	4.0	U		6010C
7440-09-7	Potassium	500	U		6010C
7782-49-2	Selenium	2.0	U		6010C
7440-22-4	Silver	1.0	U		6010C
7440-23-5	Sodium	500	U		6010C
7440-28-0	Thallium	2.0	U		6010C
7440-62-2	Vanadium	5.0	U		6010C
7440-66-6	Zinc	3.0	U		6010C

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Edison Job No.: 460-110715-1
 SDG No.: _____
 Lab Sample ID: ICSA 460-359578/10 Instrument ID: ICP4
 Lab File ID: r358955.asc ICS Source: ME_ICSA_Duo_00066
 Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Aluminum	500000	507000	101
Antimony		-0.124	
Arsenic		-0.724	
Barium		0.393	
Beryllium		-0.0333	
Cadmium		0.217	
Calcium	500000	494300	99
Chromium		-2.00	
Cobalt		-2.87	
Copper		-4.62	
Iron	200000	196400	98
Lead		2.75	
Magnesium	500000	506100	101
Manganese		-4.72	
Nickel		-3.27	
Potassium		-65.2	
Selenium		0.548	
Silver		-0.340	
Sodium		-36.1	
Thallium		-1.87	
Vanadium		3.37	
Zinc		-2.38	
<i>Boron</i>		<i>-9.03</i>	
<i>Molybdenum</i>		<i>-0.751</i>	
<i>Strontium</i>		<i>-1.68</i>	
<i>Tin</i>		<i>3.98</i>	
<i>Titanium</i>		<i>3.27</i>	

Calculations are performed before rounding to avoid round-off errors in calculated results.

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Edison Job No.: 460-110715-1
 SDG No.: _____
 Lab Sample ID: ICSAB 460-359578/11 Instrument ID: ICP4
 Lab File ID: r358955.asc ICS Source: ME_ICSAB_DUO_00082
 Concentration Units: ug/L

Analyte	True	Found	Percent Recovery
	Solution AB	Solution AB	
Aluminum	500000	565300	113
Antimony	100	107	107
Arsenic	100	103	103
Barium	100	111	111
Beryllium	100	108	108
Cadmium	100	103	103
Calcium	500000	550200	110
Chromium	100	109	109
Cobalt	100	101	101
Copper	100	113	113
Iron	200000	218000	109
Lead	100	108	108
Magnesium	500000	557800	112
Manganese	100	105	105
Nickel	100	99.8	100
Potassium	10000	11210	112
Selenium	100	108	108
Silver	100	117	117
Sodium	10000	11460	115
Thallium	100	102	102
Vanadium	100	113	113
Zinc	100	101	101
<i>Boron</i>	<i>100</i>	<i>98.8</i>	<i>99</i>
<i>Molybdenum</i>	<i>100</i>	<i>105</i>	<i>105</i>
<i>Strontium</i>	<i>100</i>	<i>107</i>	<i>107</i>
<i>Tin</i>	<i>100</i>	<i>108</i>	<i>108</i>
<i>Titanium</i>	<i>100</i>	<i>117</i>	<i>117</i>

Calculations are performed before rounding to avoid round-off errors in calculated results.

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: C3 MS

Lab ID: 460-110715-1 MS

Lab Name: TestAmerica Edison

Job No.: 460-110715-1

SDG No.: _____

Matrix: Solid

Concentration Units: mg/Kg

% Solids: 95.1

Analyte	SSR C	Sample Result (SR) C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Aluminum	5697	3800	172	1098	75-125	4	6010C
Antimony	27.37	3.3 U	43.1	64	75-125	N	6010C
Arsenic	162.4	3.8	172	92	75-125		6010C
Barium	986.2	307	172	394	75-125	N	6010C
Beryllium	4.78	0.33 U	4.31	111	75-125		6010C
Cadmium	5.38	0.93	4.31	103	75-125		6010C
Calcium	2790	654 J	1720	124	75-125		6010C
Chromium	31.36	11.4	17.2	116	75-125		6010C
Cobalt	48.63	3.8 J	43.1	104	75-125		6010C
Copper	60.02	31.7	21.5	131	75-125	N	6010C
Iron	18870	17800	86.2	1218	75-125	4	6010C
Lead	1394	1520	43.1	-291	75-125	4	6010C
Magnesium	2847	715 J	1720	124	75-125		6010C
Manganese	264.2	239	43.1	59	75-125	4	6010C
Nickel	62.12	14.7	43.1	110	75-125		6010C
Potassium	2364	305 J	1720	119	75-125		6010C
Selenium	160.9	3.3 U	172	93	75-125		6010C
Silver	4.46	0.32 J	4.31	96	75-125		6010C
Sodium	1692	834 U	1720	98	75-125		6010C
Thallium	175.3	3.3 U	172	102	75-125		6010C
Vanadium	56.61	9.5	43.1	109	75-125		6010C
Zinc	634.5	514	43.1	280	75-125	4	6010C

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

5B-IN
POST DIGESTION SPIKE SAMPLE RECOVERY
METALS

Client ID: C3 PDS

Lab ID: 460-110715-1 PDS

Lab Name: TestAmerica Edison

Job No.: 460-110715-1

SDG No.: _____

Matrix: Solid

Concentration Units: mg/Kg

Analyte	SSR C	Sample Result (SR) C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Aluminum	4145	3800	334	NC	80-120		6010C
Antimony	76.42	3.3 U	83.4	92	80-120		6010C
Arsenic	296.5	3.8	334	88	80-120		6010C
Barium	615.9	307	334	93	80-120		6010C
Beryllium	8.49	0.33 U	8.34	102	80-120		6010C
Cadmium	8.82	0.93	8.34	95	80-120		6010C
Calcium	3703	654 J	3340	91	80-120		6010C
Chromium	43.65	11.4	33.4	97	80-120		6010C
Cobalt	84.23	3.8 J	83.4	96	80-120		6010C
Copper	69.21	31.7	41.7	90	80-120		6010C
Iron	17670	17800	167	NC	80-120		6010C
Lead	1574	1520	83.4	NC	80-120		6010C
Magnesium	3644	715 J	3340	88	80-120		6010C
Manganese	311.4	239	83.4	87	80-120		6010C
Nickel	95.34	14.7	83.4	97	80-120		6010C
Potassium	3194	305 J	3340	87	80-120		6010C
Selenium	299.7	3.3 U	334	90	80-120		6010C
Silver	7.83	0.32 J	8.34	90	80-120		6010C
Sodium	3085	834 U	3340	92	80-120		6010C
Thallium	323.7	3.3 U	334	97	80-120		6010C
Vanadium	87.73	9.5	83.4	94	80-120		6010C
Zinc	586.3	514	83.4	87	80-120		6010C

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

6-IN
DUPLICATES
METALS

Client ID: C3 DU

Lab ID: 460-110715-1 DU

Lab Name: TestAmerica Edison

Job No.: 460-110715-1

SDG No.: _____

% Solids for Sample: 95.1

% Solids for Duplicate: 95.1

Matrix: Solid

Concentration Units: mg/Kg

Analyte	Control Limit	Sample (S) C	Duplicate (D) C	RPD	Q	Method
Aluminum	34.8	3800	3991	5		6010C
Antimony	3.5	3.3 U	3.5 U	NC		6010C
Arsenic	2.6	3.8	3.49	8		6010C
Barium	34.8	307	323.9	5		6010C
Beryllium	0.35	0.33 U	0.35 U	NC		6010C
Cadmium	0.70	0.93	0.949	2		6010C
Calcium	869	654 J	688.4 J	5		6010C
Chromium	1.7	11.4	11.89	4		6010C
Cobalt	8.7	3.8 J	3.92 J	4		6010C
Copper	4.3	31.7	33.31	5		6010C
Iron	26.1	17800	18820	5		6010C
Lead	1.7	1520	1605	6		6010C
Magnesium	869	715 J	755.1 J	5		6010C
Manganese	2.6	239	250.7	5		6010C
Nickel	7.0	14.7	15.47	5		6010C
Potassium	869	305 J	315.9 J	3		6010C
Selenium	3.5	3.3 U	3.5 U	NC		6010C
Silver	1.7	0.32 J	0.381 J	17		6010C
Sodium	869	834 U	869 U	NC		6010C
Thallium	3.5	3.3 U	3.5 U	NC		6010C
Vanadium	8.7	9.5	9.92	5		6010C
Zinc	5.2	514	544.7	6		6010C

Calculations are performed before rounding to avoid round-off errors in calculated results.

7A-IN
LCS-CERTIFIED REFERENCE MATERIAL
METALS

Lab ID: LCSSRM 460-359060/2-A

Lab Name: TestAmerica Edison

Job No.: 460-110715-1

Sample Matrix: Solid

LCS Source: ME_LCSS_87_00006

Analyte	Solid (mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Aluminum	7930	6937		87.5	50.2	150.1		6010C
Antimony	105	54.12		51.5	0.1	201.0		6010C
Arsenic	98.5	91.69		93.1	77.8	122.8		6010C
Barium	308	301.8		98.0	82.5	117.5		6010C
Beryllium	66.0	64.41		97.6	83.0	116.8		6010C
Cadmium	146	140.9		96.5	82.9	117.8		6010C
Calcium	6610	6182		93.5	83.7	116.2		6010C
Chromium	182	179.5		98.6	79.7	120.3		6010C
Cobalt	162	161.5		99.7	83.3	116.0		6010C
Copper	106	100.2		94.5	81.5	118.9		6010C
Iron	14400	13810		95.9	44.1	155.6		6010C
Lead	130	128.3		98.7	82.3	117.7		6010C
Magnesium	2640	2408		91.2	75.8	124.6		6010C
Manganese	410	400.0		97.6	81.2	119.0		6010C
Nickel	149	150.3		100.9	82.6	117.4		6010C
Potassium	2550	2290		89.8	69.0	130.6		6010C
Selenium	154	142.8		92.7	77.9	122.1		6010C
Silver	40.9	37.88		92.6	75.1	124.7		6010C
Sodium	2480	2288		92.3	70.6	129.0		6010C
Thallium	175	178.6		102.1	78.3	121.1		6010C
Vanadium	96.7	92.73		95.9	77.2	123.1		6010C
Zinc	191	185.2		97.0	83.2	116.8		6010C

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 460-110715-1

SDG No:

Lab Name: TestAmerica Edison

Job No: 460-110715-1

Matrix: Solid

Concentration Units: mg/Kg

Analyte	Initial Sample Result (I) C		Serial Dilution Result (S) C		% Difference	Q	Method
Aluminum	3800		3778		0.68		6010C
Antimony	3.3	U	16.7	U	NC		6010C
Arsenic	3.8		4.51	J	NC		6010C
Barium	307		307.3		NC		6010C
Beryllium	0.33	U	1.7	U	NC		6010C
Cadmium	0.93		3.3	U	NC		6010C
Calcium	654	J	654.9	J	NC		6010C
Chromium	11.4		11.10		NC		6010C
Cobalt	3.8	J	41.7	U	NC		6010C
Copper	31.7		30.42		NC		6010C
Iron	17800		17740		0.47		6010C
Lead	1520		1539		1.3		6010C
Magnesium	715	J	712.3	J	NC		6010C
Manganese	239		235.3		1.5		6010C
Nickel	14.7		14.74	J	NC		6010C
Potassium	305	J	291.3	J	NC		6010C
Selenium	3.3	U	16.7	U	NC		6010C
Silver	0.32	J	8.3	U	NC		6010C
Sodium	834	U	4170	U	NC		6010C
Thallium	3.3	U	16.7	U	NC		6010C
Vanadium	9.5		8.88	J	NC		6010C
Zinc	514		518.3		0.89		6010C

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Edison Job Number: 460-110715-1
 SDG Number: _____
 Matrix: Solid Instrument ID: ICP4
 Method: 6010C MDL Date: 05/05/2015 13:01
 Prep Method: 3050B

Analyte	Wavelength/ Mass	RL (mg/Kg)	MDL (mg/Kg)
Aluminum		40	20.6
Antimony		4	1.58
Arsenic		3	0.983
Barium		40	1.43
Beryllium		0.4	0.339
Cadmium		0.8	0.417
Calcium		1000	59.2
Chromium		2	0.967
Cobalt		10	1.15
Copper		5	1.3
Iron		30	22.6
Lead		2	0.785
Magnesium		1000	49.9
Manganese		3	1.05
Nickel		8	1.46
Potassium		1000	30.3
Selenium		4	1.38
Silver		2	0.353
Sodium		1000	67.7
Thallium		4	1.77
Vanadium		10	1
Zinc		6	1.46

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Edison Job Number: 460-110715-1
SDG Number: _____
Matrix: Solid Instrument ID: ICP4
Method: 6010C XMDL Date: 05/05/2015 12:52

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Aluminum		200	69.5
Antimony		20	4.7
Arsenic		15	4.41
Barium		200	5.49
Beryllium		2	1.8
Cadmium		4	2.32
Calcium		5000	317
Chromium		10	4.5
Cobalt		50	5.08
Copper		25	5.02
Iron		150	65.4
Lead		10	4.16
Magnesium		5000	260
Manganese		15	4.88
Nickel		40	5.39
Potassium		5000	122
Selenium		20	6.76
Silver		10	1.86
Sodium		5000	315
Thallium		20	4.52
Vanadium		50	4.37
Zinc		30	5.9

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-110715-1

SDG No.: _____

Prep Method: 3050B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 460-359060/1-A ^2	03/27/2016 20:57	359060	1.00		50
LCSSRM 460-359060/2-A	03/27/2016 20:57	359060	1.02		50
460-110715-1	03/27/2016 20:57	359060	1.26		50
460-110715-1 DU	03/27/2016 20:57	359060	1.21		50
460-110715-1 MS	03/27/2016 20:57	359060	1.22		50
460-110715-2	03/27/2016 20:57	359060	1.23		50

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-110715-1

SDG No.: _____

Instrument ID: ICP4 Method: 6010C

Start Date: 03/29/2016 15:15 End Date: 03/30/2016 02:49

Lab Sample ID	D / F	T y p e	Time	Analytes																			
				A g	A l	A s	B a	B e	C a	C d	C o	C r	C u	F e	K	M g	M n	N a	N i	P b	S b	S e	T l
ICIS 460-359578/1	1		15:15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			15:19																				
ZZZZZZ			15:23																				
ZZZZZZ			15:27																				
ZZZZZZ			15:31																				
ZZZZZZ			15:36																				
ICV 460-359578/7	1		15:40	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICB 460-359578/8	1		15:44	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICVL 460-359578/9	1		15:49	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSA 460-359578/10	1		15:53	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSAB 460-359578/11	1		15:57	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			16:02																				
ZZZZZZ			16:06																				
ZZZZZZ			16:11																				
ZZZZZZ			16:15																				
ZZZZZZ			16:19																				
ZZZZZZ			16:23																				
ZZZZZZ			16:28																				
ZZZZZZ			16:32																				
CCV 460-359578/20			16:36																				
CCB 460-359578/21			16:40																				
CCVL 460-359578/22			16:45																				
ZZZZZZ			16:49																				
ZZZZZZ			16:53																				
ZZZZZZ			16:57																				
ZZZZZZ			17:02																				
ZZZZZZ			17:06																				
ZZZZZZ			17:10																				
ZZZZZZ			17:15																				
ZZZZZZ			17:19																				
ZZZZZZ			17:23																				
ZZZZZZ			17:27																				
CCV 460-359578/33			17:32																				
CCB 460-359578/34			17:36																				
CCVL 460-359578/35			17:40																				
ZZZZZZ			17:45																				
ZZZZZZ			17:49																				
ZZZZZZ			17:53																				
ZZZZZZ			17:57																				
ZZZZZZ			18:02																				
ZZZZZZ			18:06																				
ZZZZZZ			18:10																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-110715-1

SDG No.: _____

Instrument ID: ICP4 Method: 6010C

Start Date: 03/29/2016 15:15 End Date: 03/30/2016 02:49

Lab Sample ID	D / F	T y p e	Time	Analytes																			
				A g	A l	A s	B a	B e	C a	C d	C o	C r	C u	F e	K	M g	M n	N a	N i	P b	S b	S e	T l
ZZZZZZ			18:13																				
ZZZZZZ			18:17																				
ZZZZZZ			18:21																				
CCV 460-359578/46	1		18:25	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CCB 460-359578/47	1		18:29	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CCVL 460-359578/48	1		18:33	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
MB 460-359060/1-A ^2	2	T	18:36	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
LCSSRM 460-359060/2-A	4	T	18:40	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
460-110715-1 DU	4	T	18:44	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
460-110715-1	4	T	18:48	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
460-110715-1 SD	20	T	18:52	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
460-110715-1 MS	4	T	18:55	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
460-110715-1 PDS	4	T	18:59	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
ZZZZZZ			19:03																				
ZZZZZZ			19:06																				
ZZZZZZ			19:10																				
CCV 460-359578/59	1		19:14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CCB 460-359578/60	1		19:18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CCVL 460-359578/61	1		19:22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
ZZZZZZ			19:26																				
ZZZZZZ			19:30																				
ZZZZZZ			19:33																				
ZZZZZZ			19:37																				
ZZZZZZ			19:41																				
ZZZZZZ			19:45																				
ZZZZZZ			19:49																				
ZZZZZZ			19:52																				
ZZZZZZ			19:56																				
ZZZZZZ			20:00																				
CCV 460-359578/72	1		20:04	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CCB 460-359578/73	1		20:08	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CCVL 460-359578/74	1		20:12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
ZZZZZZ			20:15																				
ZZZZZZ			20:19																				
ZZZZZZ			20:23																				
ZZZZZZ			20:27																				
ZZZZZZ			20:31																				
460-110715-2	4	T	20:34	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
ZZZZZZ			20:38																				
ZZZZZZ			20:42																				
ZZZZZZ			20:46																				
ZZZZZZ			20:50																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-110715-1

SDG No.: _____

Instrument ID: ICP4 Method: 6010C

Start Date: 03/29/2016 15:15 End Date: 03/30/2016 02:49

Lab Sample ID	D / F	T y p e	Time	Analytes																			
				A g	A l	A s	B a	B e	C a	C d	C o	C r	C u	F e	K	M g	M n	N a	N i	P b	S b	S e	T l
CCV 460-359578/85	1		20:54	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 460-359578/86	1		20:57	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCVL 460-359578/87	1		21:01	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			21:31																				
ZZZZZZ			21:35																				
ZZZZZZ			21:39																				
ZZZZZZ			21:43																				
ZZZZZZ			21:47																				
ZZZZZZ			21:50																				
ZZZZZZ			21:54																				
ZZZZZZ			21:58																				
ZZZZZZ			22:02																				
ZZZZZZ			22:06																				
CCV 460-359578/98			22:10																				
CCB 460-359578/99			22:13																				
CCVL 460-359578/100			22:17																				
ZZZZZZ			22:21																				
ZZZZZZ			22:25																				
ZZZZZZ			22:29																				
ZZZZZZ			22:33																				
ZZZZZZ			22:37																				
ZZZZZZ			22:41																				
ZZZZZZ			22:45																				
ZZZZZZ			22:48																				
ZZZZZZ			22:52																				
ZZZZZZ			22:56																				
CCV 460-359578/111			23:00																				
CCB 460-359578/112			23:03																				
CCVL 460-359578/113			23:07																				
ICSA 460-359578/114			23:11																				
ICSAB 460-359578/115			23:15																				
ZZZZZZ			23:19																				
ZZZZZZ			23:23																				
ZZZZZZ			23:27																				
ZZZZZZ			23:31																				
ZZZZZZ			23:35																				
ZZZZZZ			23:39																				
ZZZZZZ			23:43																				
ZZZZZZ			23:47																				
CCV 460-359578/124			23:51																				
CCB 460-359578/125			23:55																				
CCVL 460-359578/126			23:59																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-110715-1

SDG No.: _____

Instrument ID: ICP4 Method: 6010C

Start Date: 03/29/2016 15:15 End Date: 03/30/2016 02:49

Lab Sample ID	D / F	T y p e	Time	Analytes																			
				A g	A l	A s	B a	B e	C a	C d	C o	C r	C u	F e	K	M g	M n	N a	N i	P b	S b	S e	T l
ZZZZZZZ			00:03																				
ZZZZZZZ			00:07																				
ZZZZZZZ			00:11																				
ZZZZZZZ			00:15																				
ZZZZZZZ			00:19																				
ZZZZZZZ			00:23																				
ZZZZZZZ			00:27																				
ZZZZZZZ			00:31																				
ZZZZZZZ			00:35																				
ZZZZZZZ			00:39																				
CCV 460-359578/137			00:43																				
CCB 460-359578/138			00:47																				
CCVL 460-359578/139			00:51																				
ZZZZZZZ			00:55																				
ZZZZZZZ			00:58																				
ZZZZZZZ			01:02																				
ZZZZZZZ			01:06																				
ZZZZZZZ			01:10																				
ZZZZZZZ			01:14																				
ZZZZZZZ			01:18																				
ZZZZZZZ			01:22																				
ZZZZZZZ			01:26																				
ZZZZZZZ			01:30																				
CCV 460-359578/150			01:34																				
CCB 460-359578/151			01:37																				
CCVL 460-359578/152			01:42																				
ZZZZZZZ			01:45																				
ZZZZZZZ			01:49																				
ZZZZZZZ			01:54																				
ZZZZZZZ			01:57																				
ZZZZZZZ			02:01																				
ZZZZZZZ			02:05																				
ZZZZZZZ			02:09																				
ZZZZZZZ			02:13																				
ZZZZZZZ			02:17																				
ZZZZZZZ			02:21																				
CCV 460-359578/163			02:25																				
CCB 460-359578/164			02:29																				
CCVL 460-359578/165			02:33																				
ZZZZZZZ			02:37																				
CCV 460-359578/167			02:41																				
CCB 460-359578/168			02:45																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-110715-1

SDG No.: _____

Instrument ID: ICP4 Method: 6010C

Start Date: 03/29/2016 15:15 End Date: 03/30/2016 02:49

Lab Sample ID	D / F	T y p e	Time	Analytes																		
				A g	A l	A s	B a	B e	C a	C d	C o	C r	C u	F e	K	M g	M n	N a	N i	P b	S b	S e
CCVL 460-359578/169			02:49																			

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-110715-1

SDG No.: _____

Instrument ID: ICP4 Method: 6010C

Start Date: 03/29/2016 15:15 End Date: 03/30/2016 02:49

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				V	Z n																
ICIS 460-359578/1	1		15:15	X	X																
ZZZZZZ			15:19																		
ZZZZZZ			15:23																		
ZZZZZZ			15:27																		
ZZZZZZ			15:31																		
ZZZZZZ			15:36																		
ICV 460-359578/7	1		15:40	X	X																
ICB 460-359578/8	1		15:44	X	X																
ICVL 460-359578/9	1		15:49	X	X																
ICSA 460-359578/10	1		15:53	X	X																
ICSAB 460-359578/11	1		15:57	X	X																
ZZZZZZ			16:02																		
ZZZZZZ			16:06																		
ZZZZZZ			16:11																		
ZZZZZZ			16:15																		
ZZZZZZ			16:19																		
ZZZZZZ			16:23																		
ZZZZZZ			16:28																		
ZZZZZZ			16:32																		
CCV 460-359578/20			16:36																		
CCB 460-359578/21			16:40																		
CCVL 460-359578/22			16:45																		
ZZZZZZ			16:49																		
ZZZZZZ			16:53																		
ZZZZZZ			16:57																		
ZZZZZZ			17:02																		
ZZZZZZ			17:06																		
ZZZZZZ			17:10																		
ZZZZZZ			17:15																		
ZZZZZZ			17:19																		
ZZZZZZ			17:23																		
ZZZZZZ			17:27																		
CCV 460-359578/33			17:32																		
CCB 460-359578/34			17:36																		
CCVL 460-359578/35			17:40																		
ZZZZZZ			17:45																		
ZZZZZZ			17:49																		
ZZZZZZ			17:53																		
ZZZZZZ			17:57																		
ZZZZZZ			18:02																		
ZZZZZZ			18:06																		
ZZZZZZ			18:10																		

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-110715-1

SDG No.: _____

Instrument ID: ICP4 Method: 6010C

Start Date: 03/29/2016 15:15 End Date: 03/30/2016 02:49

Lab Sample ID	D / F	T y p e	Time	Analytes															
				V	Z n														
ZZZZZZ			18:13																
ZZZZZZ			18:17																
ZZZZZZ			18:21																
CCV 460-359578/46	1		18:25	X	X														
CCB 460-359578/47	1		18:29	X	X														
CCVL 460-359578/48	1		18:33	X	X														
MB 460-359060/1-A ^2	2	T	18:36	X	X														
LCSSRM 460-359060/2-A	4	T	18:40	X	X														
460-110715-1 DU	4	T	18:44	X	X														
460-110715-1	4	T	18:48	X	X														
460-110715-1 SD	20	T	18:52	X	X														
460-110715-1 MS	4	T	18:55	X	X														
460-110715-1 PDS	4	T	18:59	X	X														
ZZZZZZ			19:03																
ZZZZZZ			19:06																
ZZZZZZ			19:10																
CCV 460-359578/59	1		19:14	X	X														
CCB 460-359578/60	1		19:18	X	X														
CCVL 460-359578/61	1		19:22	X	X														
ZZZZZZ			19:26																
ZZZZZZ			19:30																
ZZZZZZ			19:33																
ZZZZZZ			19:37																
ZZZZZZ			19:41																
ZZZZZZ			19:45																
ZZZZZZ			19:49																
ZZZZZZ			19:52																
ZZZZZZ			19:56																
ZZZZZZ			20:00																
CCV 460-359578/72	1		20:04	X	X														
CCB 460-359578/73	1		20:08	X	X														
CCVL 460-359578/74	1		20:12	X	X														
ZZZZZZ			20:15																
ZZZZZZ			20:19																
ZZZZZZ			20:23																
ZZZZZZ			20:27																
ZZZZZZ			20:31																
460-110715-2	4	T	20:34	X	X														
ZZZZZZ			20:38																
ZZZZZZ			20:42																
ZZZZZZ			20:46																
ZZZZZZ			20:50																

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-110715-1

SDG No.: _____

Instrument ID: ICP4 Method: 6010C

Start Date: 03/29/2016 15:15 End Date: 03/30/2016 02:49

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				V	Z n																
CCV 460-359578/85	1		20:54	X	X																
CCB 460-359578/86	1		20:57	X	X																
CCVL 460-359578/87	1		21:01	X	X																
ZZZZZZ			21:31																		
ZZZZZZ			21:35																		
ZZZZZZ			21:39																		
ZZZZZZ			21:43																		
ZZZZZZ			21:47																		
ZZZZZZ			21:50																		
ZZZZZZ			21:54																		
ZZZZZZ			21:58																		
ZZZZZZ			22:02																		
ZZZZZZ			22:06																		
CCV 460-359578/98			22:10																		
CCB 460-359578/99			22:13																		
CCVL 460-359578/100			22:17																		
ZZZZZZ			22:21																		
ZZZZZZ			22:25																		
ZZZZZZ			22:29																		
ZZZZZZ			22:33																		
ZZZZZZ			22:37																		
ZZZZZZ			22:41																		
ZZZZZZ			22:45																		
ZZZZZZ			22:48																		
ZZZZZZ			22:52																		
ZZZZZZ			22:56																		
CCV 460-359578/111			23:00																		
CCB 460-359578/112			23:03																		
CCVL 460-359578/113			23:07																		
ICSA 460-359578/114			23:11																		
ICSAB 460-359578/115			23:15																		
ZZZZZZ			23:19																		
ZZZZZZ			23:23																		
ZZZZZZ			23:27																		
ZZZZZZ			23:31																		
ZZZZZZ			23:35																		
ZZZZZZ			23:39																		
ZZZZZZ			23:43																		
ZZZZZZ			23:47																		
CCV 460-359578/124			23:51																		
CCB 460-359578/125			23:55																		
CCVL 460-359578/126			23:59																		

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-110715-1

SDG No.: _____

Instrument ID: ICP4 Method: 6010C

Start Date: 03/29/2016 15:15 End Date: 03/30/2016 02:49

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				V	Z n																
ZZZZZZ			00:03																		
ZZZZZZ			00:07																		
ZZZZZZ			00:11																		
ZZZZZZ			00:15																		
ZZZZZZ			00:19																		
ZZZZZZ			00:23																		
ZZZZZZ			00:27																		
ZZZZZZ			00:31																		
ZZZZZZ			00:35																		
ZZZZZZ			00:39																		
CCV 460-359578/137			00:43																		
CCB 460-359578/138			00:47																		
CCVL 460-359578/139			00:51																		
ZZZZZZ			00:55																		
ZZZZZZ			00:58																		
ZZZZZZ			01:02																		
ZZZZZZ			01:06																		
ZZZZZZ			01:10																		
ZZZZZZ			01:14																		
ZZZZZZ			01:18																		
ZZZZZZ			01:22																		
ZZZZZZ			01:26																		
ZZZZZZ			01:30																		
CCV 460-359578/150			01:34																		
CCB 460-359578/151			01:37																		
CCVL 460-359578/152			01:42																		
ZZZZZZ			01:45																		
ZZZZZZ			01:49																		
ZZZZZZ			01:54																		
ZZZZZZ			01:57																		
ZZZZZZ			02:01																		
ZZZZZZ			02:05																		
ZZZZZZ			02:09																		
ZZZZZZ			02:13																		
ZZZZZZ			02:17																		
ZZZZZZ			02:21																		
CCV 460-359578/163			02:25																		
CCB 460-359578/164			02:29																		
CCVL 460-359578/165			02:33																		
ZZZZZZ			02:37																		
CCV 460-359578/167			02:41																		
CCB 460-359578/168			02:45																		

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-110715-1

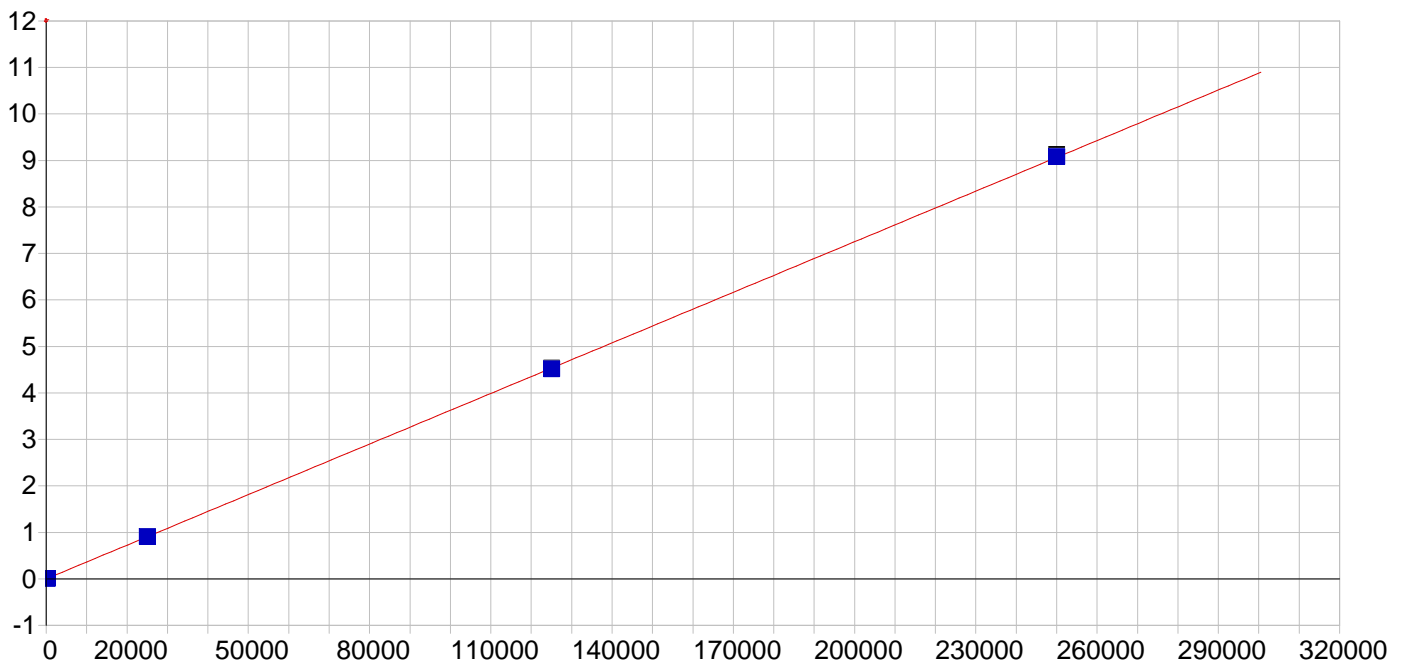
SDG No.: _____

Instrument ID: ICP4 Method: 6010C

Start Date: 03/29/2016 15:15 End Date: 03/30/2016 02:49

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				V	Z n																
CCVL 460-359578/169			02:49																		

Prep Types
T = Total/NA

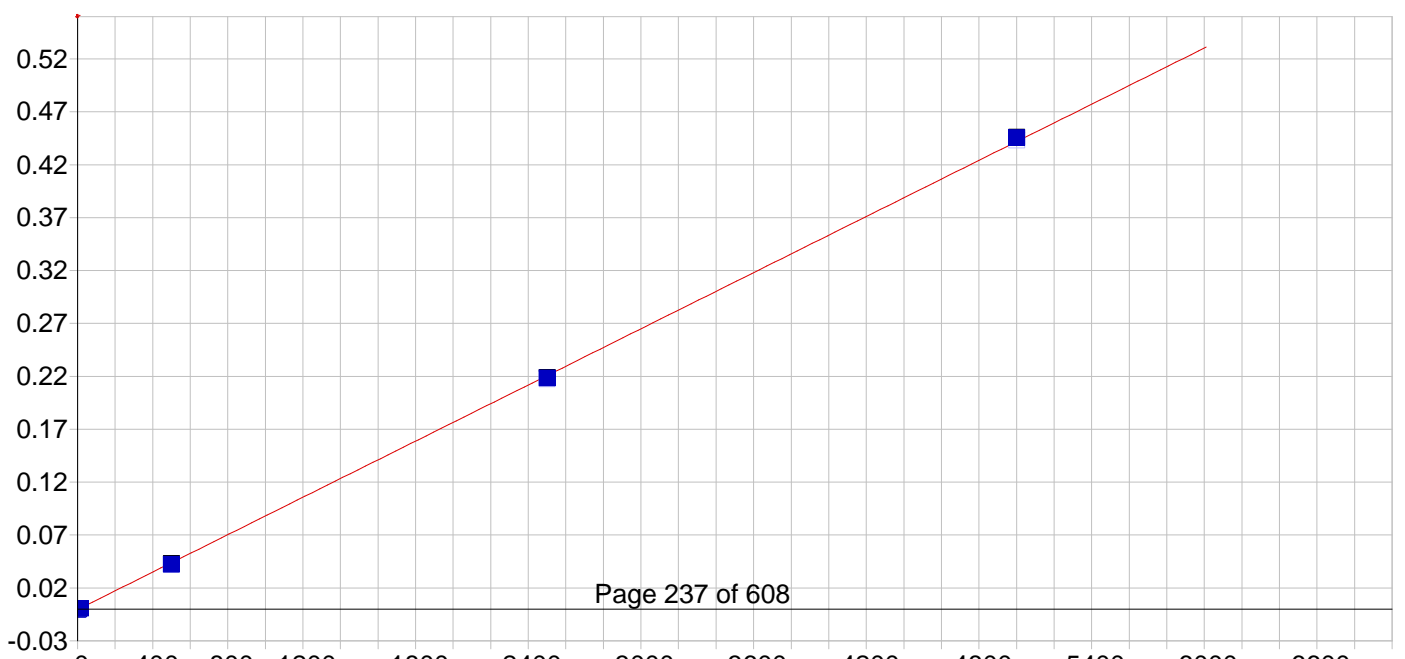


AI 396.152 { 85}

Date of Fit: 3/29/2016 15:40:16 Type of Fit: Linear Weighting: 1/Conc

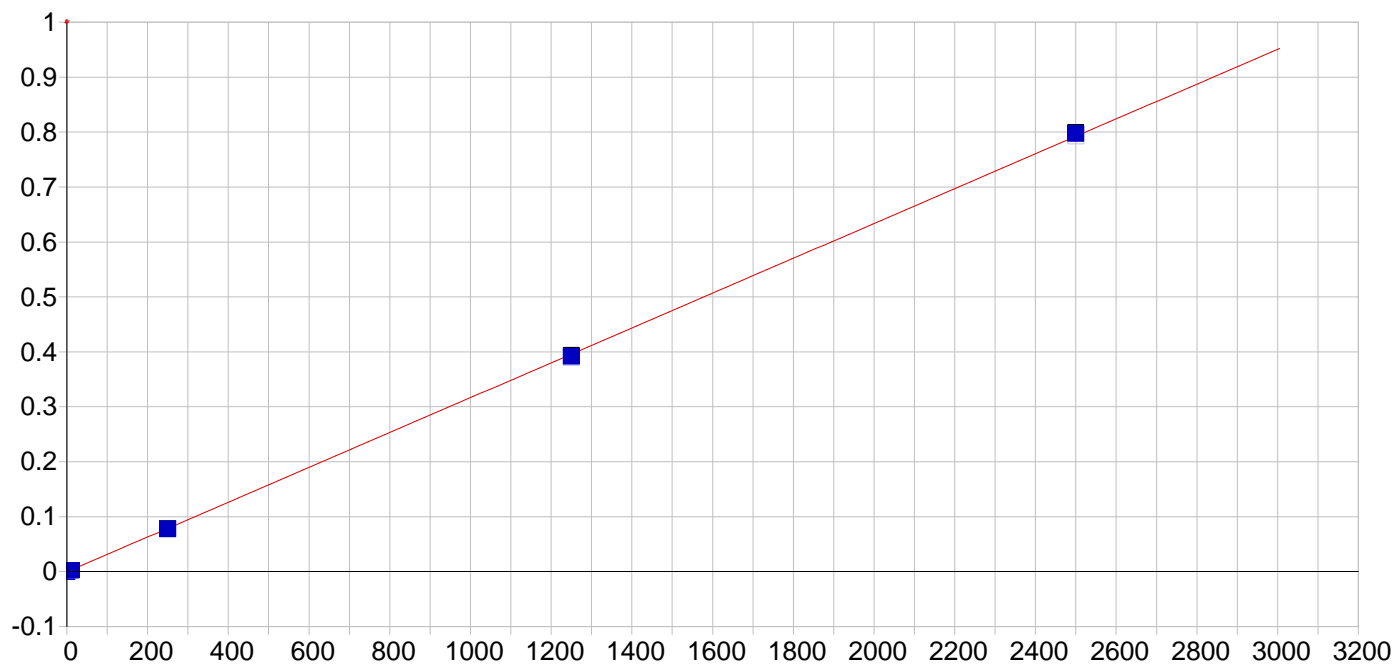
A0 (Offset): -0.000500 Re-Slope: 1.000000
 A1 (Gain): 0.000036 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 0.999994 Status: OK.
 Std Error of Est: 0.000045
 Predicted MDL: 16.144373
 Predicted MQL: 53.814576

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	-.01832	-.018	.000	-.00050	.000	1
CAL2	200.00	218.47	18.5	9.23	.00745	.000	1
CAL3	25000.	25038.	37.5	.150	.90809	.001	1
CAL4	125000.	124490.	-508.	-.406	4.5172	.010	1
CAL5	250000.	250450.	452.	.181	9.0882	.031	1



Std Error of Est: 0.000008
 Predicted MDL: 2.084943
 Predicted MQL: 6.949811

Std. Name	Stated	Conc.	Found	Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000		.00048		.000	.000	-.00041	.000	1
CAL2	15.000		14.105		-.895	-5.96	.00084	.000	1
CAL3	500.00		483.58		-16.4	-3.28	.04214	.000	1
CAL4	2500.0		2474.9		-25.1	-1.01	.21736	.000	1
CAL5	5000.0		5042.5		42.5	.849	.44332	.000	1
CAL1	5.0000		4.9874		-.013	-.253	.00003	.000	1

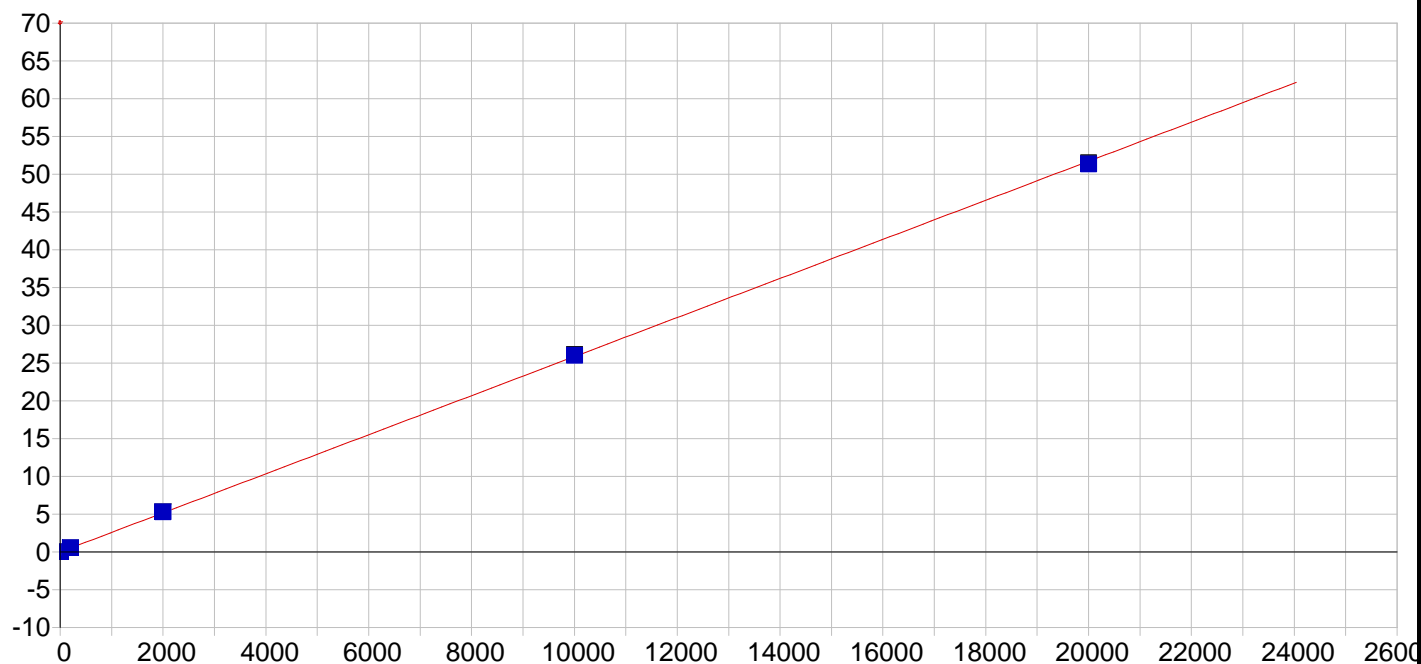


Ag 328.068 {103}

Date of Fit: 3/29/2016 15:40:16 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.000509 Re-Slope: 1.000000
 A1 (Gain): 0.000317 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 0.999963 Status: OK.
 Std Error of Est: 0.000022
 Predicted MDL: 0.547558
 Predicted MQL: 1.825193

Std. Name	Stated	Conc.	Found	Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000		-.00009		-.000	.000	-.00051	.000	1
CAL2	10.000		10.275		.275	2.75	.00272	.000	1
CAL3	250.00		246.42		-3.58	-1.43	.07714	.000	1
CAL4	1250.0		1237.3		-12.7	-1.02	.38937	.002	1
CAL5	2500.0		2516.0		16.0	.640	.79238	.002	1

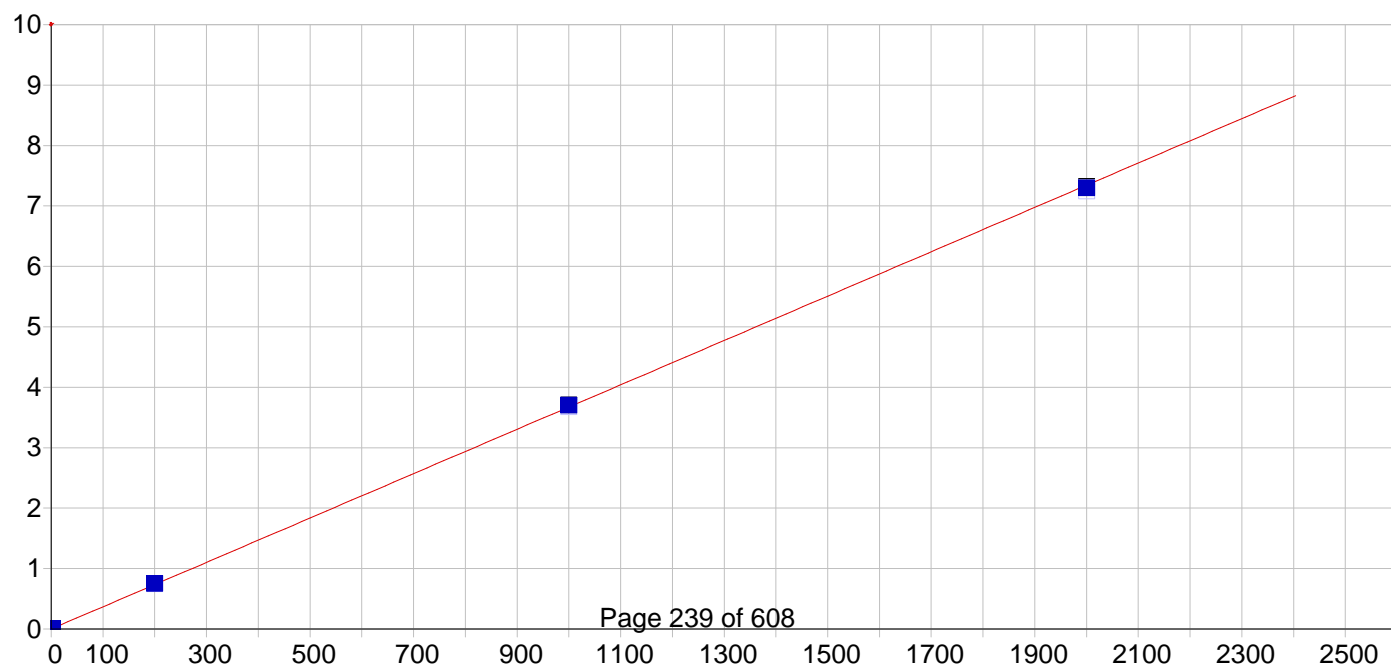


Ba 233.527 {445}

Date of Fit: 3/29/2016 15:40:16 Type of Fit: Linear Weighting: 1/Conc

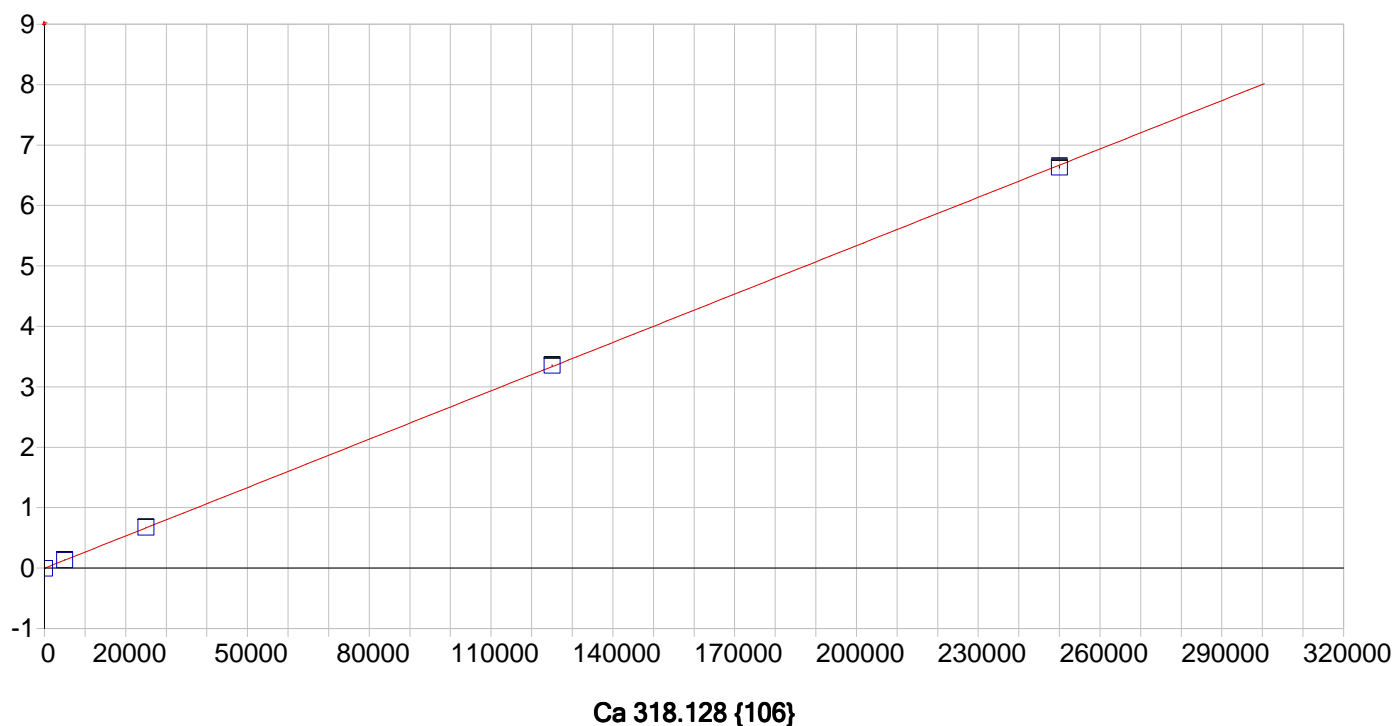
A0 (Offset): 0.000002 Re-Slope: 1.000000
 A1 (Gain): 0.002586 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 0.999940 Status: OK.
 Std Error of Est: 0.002924
 Predicted MDL: 0.127343
 Predicted MQL: 0.424477

Std. Name	Stated	Conc.	Found	Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000		-.01948		-.019	.000	-.00005	.000	1
CAL2	200.00		214.08		14.1	7.04	.55339	.002	1
CAL3	2000.0		2054.0		54.0	2.70	5.3057	.003	1
CAL4	10000.		10068.		67.9	.679	26.006	.057	1
CAL5	20000.		19864.		-136.	-.680	51.308	.107	1



Predicted MDL: 0.130450
Predicted MQL: 0.434833

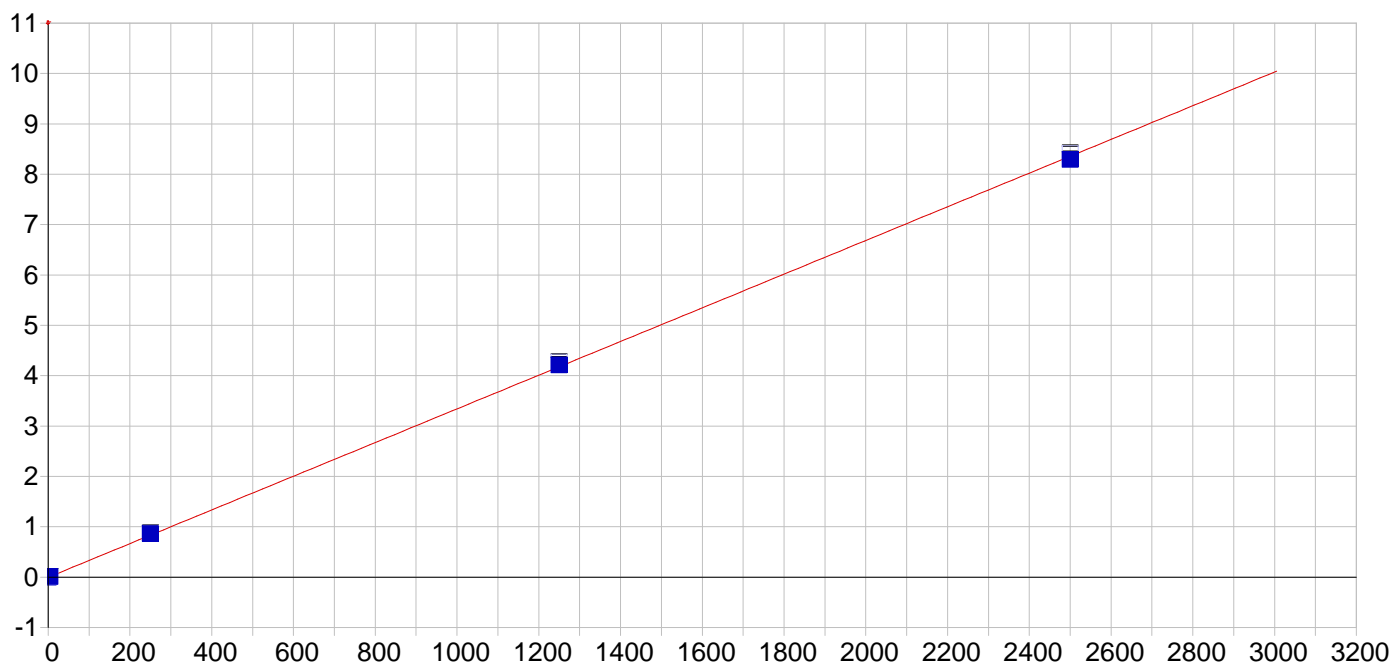
Std. Name	Stated	Conc.	Found	Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000		-.00013		-.000	.000	.00080	.000	1
CAL2	2.0000		2.0813		.081	4.07	.00839	.000	1
CAL3	200.00		204.14		4.14	2.07	.74487	.001	1
CAL4	1000.0		1008.0		8.00	.800	3.6745	.002	1
CAL5	2000.0		1987.8		-12.2	-.611	7.2446	.023	1



Date of Fit: 3/29/2016 15:40:16 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.001845 Re-Slope: 1.000000
A1 (Gain): 0.000027 Y-int: 0.000000
A2 (Curvature): 0.000000
n (Exponent): 1.000000
Correlation: 0.999973 Status: OK.
Std Error of Est: 0.000358
Predicted MDL: 5.798587
Predicted MQL: 19.328624

Std. Name	Stated	Conc.	Found	Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000		-.23618		-.236	.000	-.00185	.000	1
CAL2	5000.0		5155.7		156.	3.11	.13572	.001	1
CAL3	25000.		25381.		381.	1.53	.67540	.002	1
CAL4	125000.		125740.		745.	.596	3.3534	.011	1
CAL5	250000.		248720.		-1280.	-.513	6.6346	.020	1

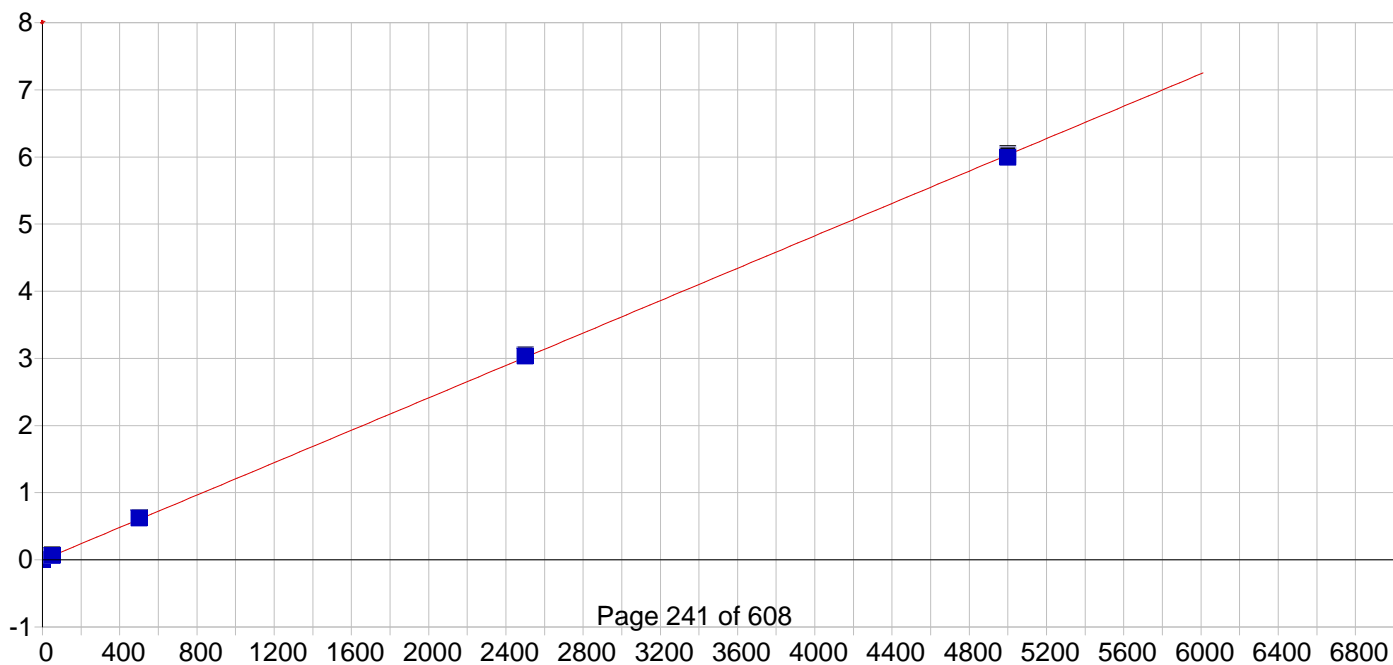


Cd 226.502 {449}

Date of Fit: 3/29/2016 15:40:16 Type of Fit: Linear Weighting: 1/Conc

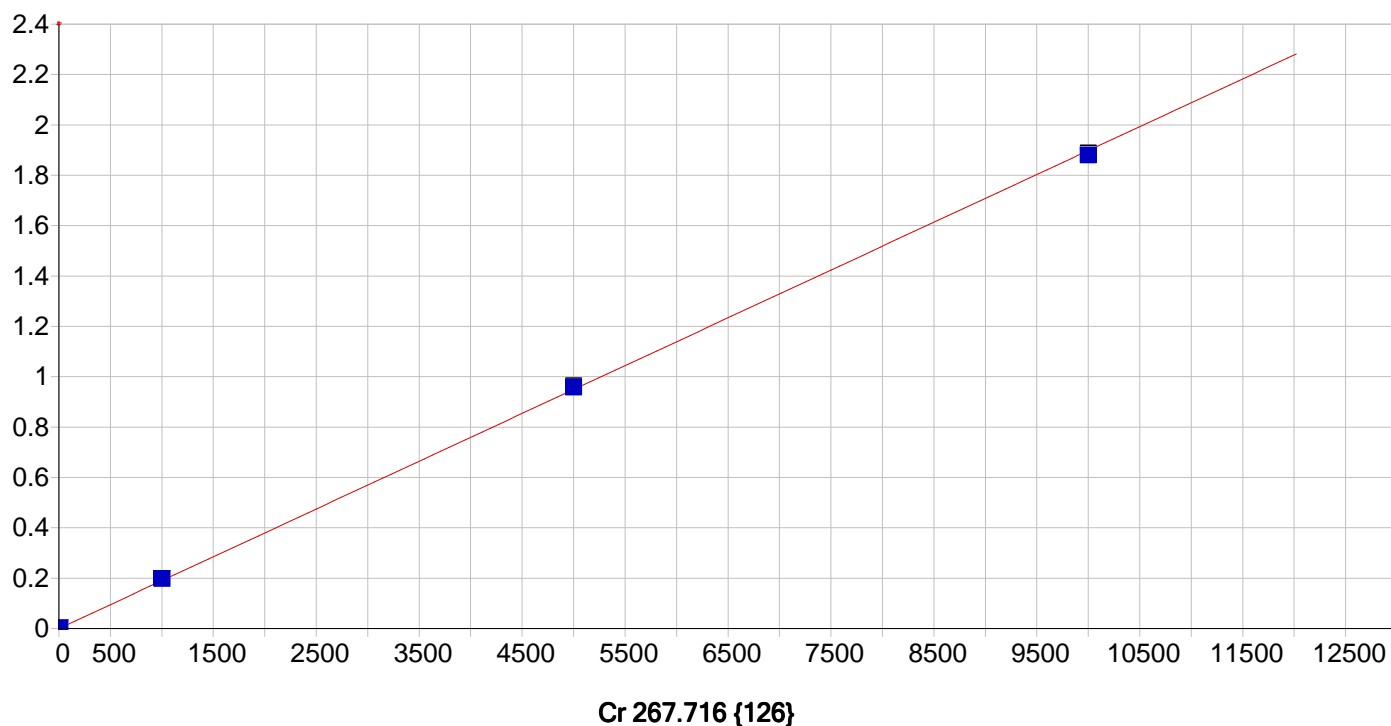
A0 (Offset): -0.002928 Re-Slope: 1.000000
 A1 (Gain): 0.003344 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 0.999922 Status: OK.
 Std Error of Est: 0.000219
 Predicted MDL: 0.119106
 Predicted MQL: 0.397020

Std. Name	Stated	Conc.	Found	Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000		-.00048		-.000	.000	-.00293	.000	1
CAL2	4.0000		4.3255		.326	8.14	.01163	.000	1
CAL3	250.00		259.64		9.64	3.86	.87706	.000	1
CAL4	1250.0		1260.2		10.2	.818	4.2700	.006	1
CAL5	2500.0		2479.8		-20.2	-.808	8.4071	.011	1



Predicted MDL: 0.276997
 Predicted MQL: 0.923325

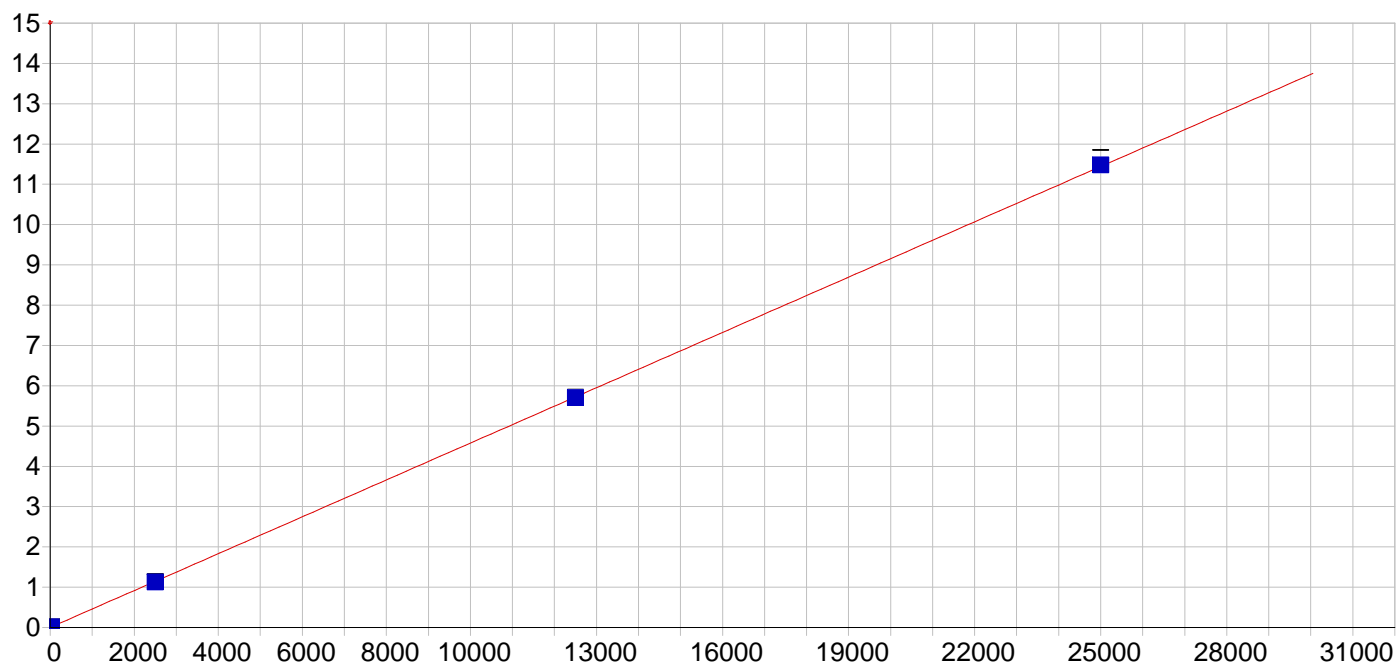
Std. Name	Stated	Conc.	Found	Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000		-.00581		-.006	.000	-.00060	.000	1
CAL2	50.000		54.208		4.21	8.42	.06482	.001	1
CAL3	500.00		516.89		16.9	3.38	.62709	.001	1
CAL4	2500.0		2512.8		12.8	.511	3.0514	.003	1
CAL5	5000.0		4966.1		-33.9	-.677	6.0316	.014	1



Date of Fit: 3/29/2016 15:40:16 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000069 Re-Slope: 1.000000
 A1 (Gain): 0.000190 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 0.999895 Status: OK.
 Std Error of Est: 0.000045
 Predicted MDL: 0.532015
 Predicted MQL: 1.773382

Std. Name	Stated	Conc.	Found	Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000		-.00121		-.001	.000	.00007	.000	1
CAL2	10.000		10.759		.759	7.59	.00212	.000	1
CAL3	1000.0		1044.8		44.8	4.48	.19839	.000	1
CAL4	5000.0		5047.4		47.4	.947	.95820	.004	1
CAL5	10000.		9907.1		-92.9	-.929	1.8807	.006	1

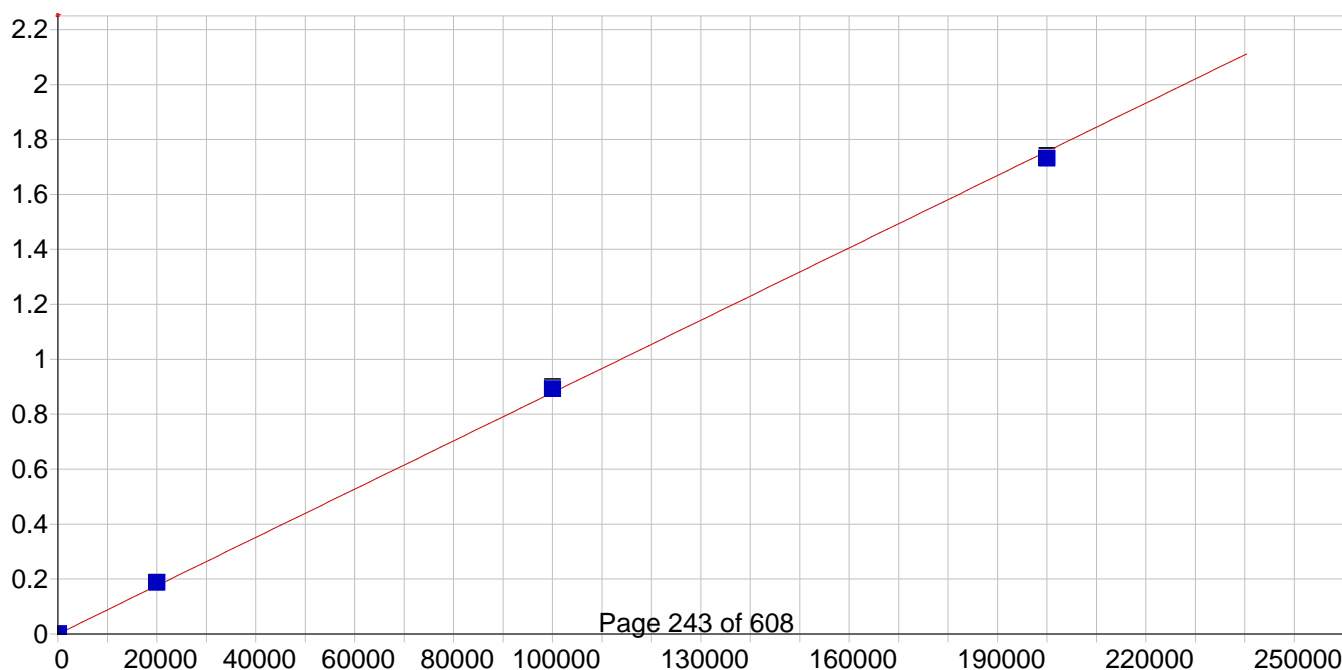


Cu 324.754 {104}

Date of Fit: 3/29/2016 15:40:16 Type of Fit: Linear Weighting: 1/Conc

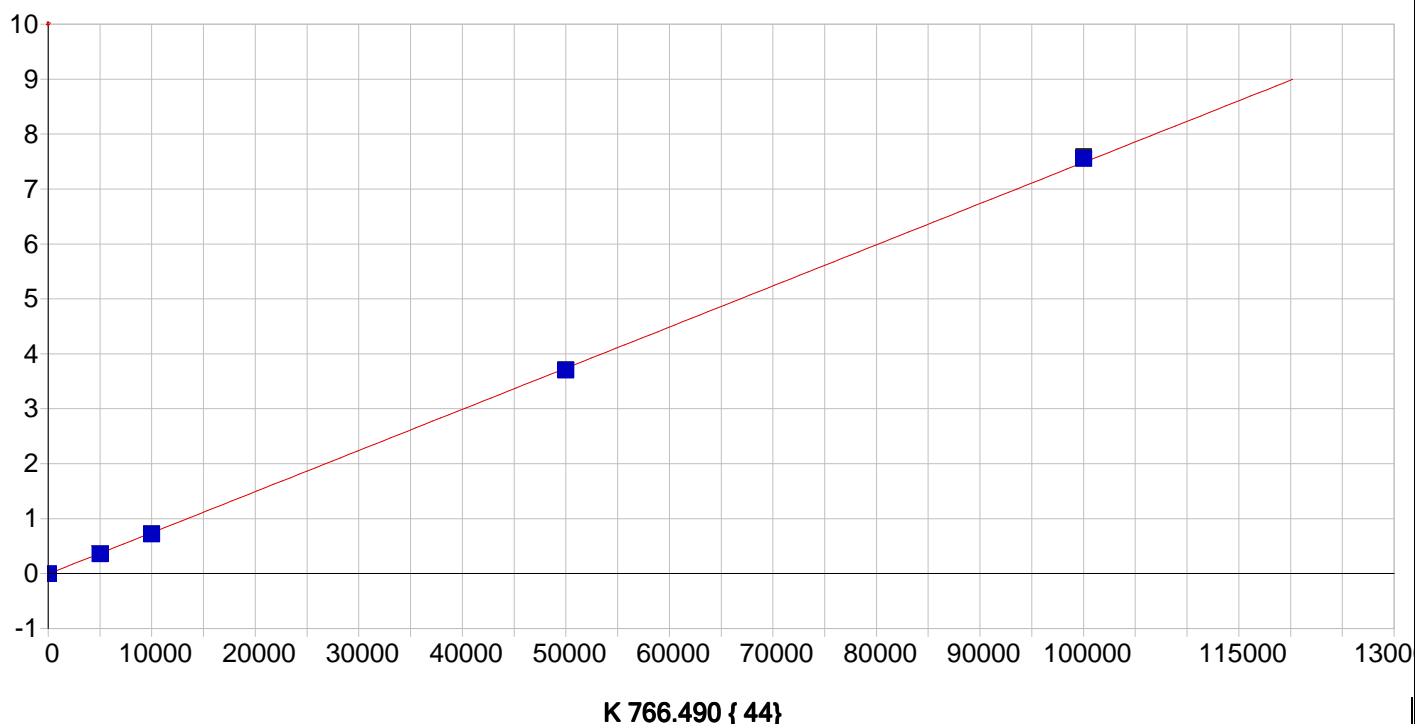
A0 (Offset): 0.001976 Re-Slope: 1.000000
 A1 (Gain): 0.000458 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 0.999985 Status: OK.
 Std Error of Est: 0.000102
 Predicted MDL: 0.316491
 Predicted MQL: 1.054970

Std. Name	Stated	Conc.	Found	Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000		.00005		.000	.000	.00198	.000	1
CAL2	25.000		25.401		.401	1.60	.01358	.000	1
CAL3	2500.0		2453.6		-46.4	-1.85	1.1241	.003	1
CAL4	12500.		12468.		-31.5	-.252	5.7044	.003	1
CAL5	25000.		25078.		77.5	.310	11.471	.181	1



Predicted MDL: 11.579357
 Predicted MQL: 38.597856

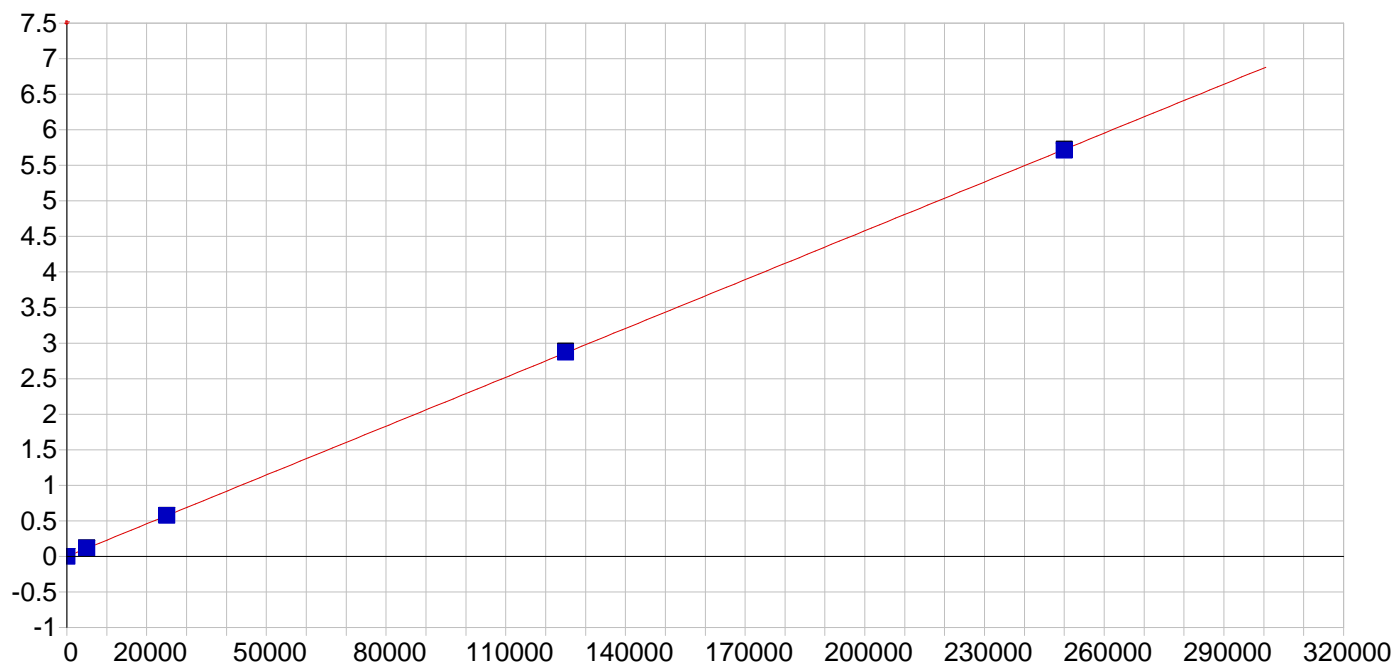
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	-.03584	-.036	.000	.00018	.000	1
CAL2	150.00	176.03	26.0	17.4	.00175	.000	1
CAL3	20000.	21278.	1280.	6.39	.18745	.000	1
CAL4	100000.	101600.	1600.	1.60	.89447	.005	1
CAL5	200000.	197090.	-2910.	-1.45	1.7351	.005	1



Date of Fit: 3/29/2016 15:40:16 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.006151 Re-Slope: 1.000000
 A1 (Gain): 0.000075 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 0.999916 Status: OK.
 Std Error of Est: 0.001138
 Predicted MDL: 33.852497
 Predicted MQL: 112.841656

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	.28342	.283	.000	-.00613	.002	1
CAL2	5000.0	4884.2	-116.	-2.32	.35963	.001	1
CAL3	10000.	9671.0	-329.	-3.29	.71839	.001	1
CAL4	50000.	49492.	-508.	-1.02	3.7017	.002	1
CAL5	100000.	100950.	952.	.952	7.5570	.024	1

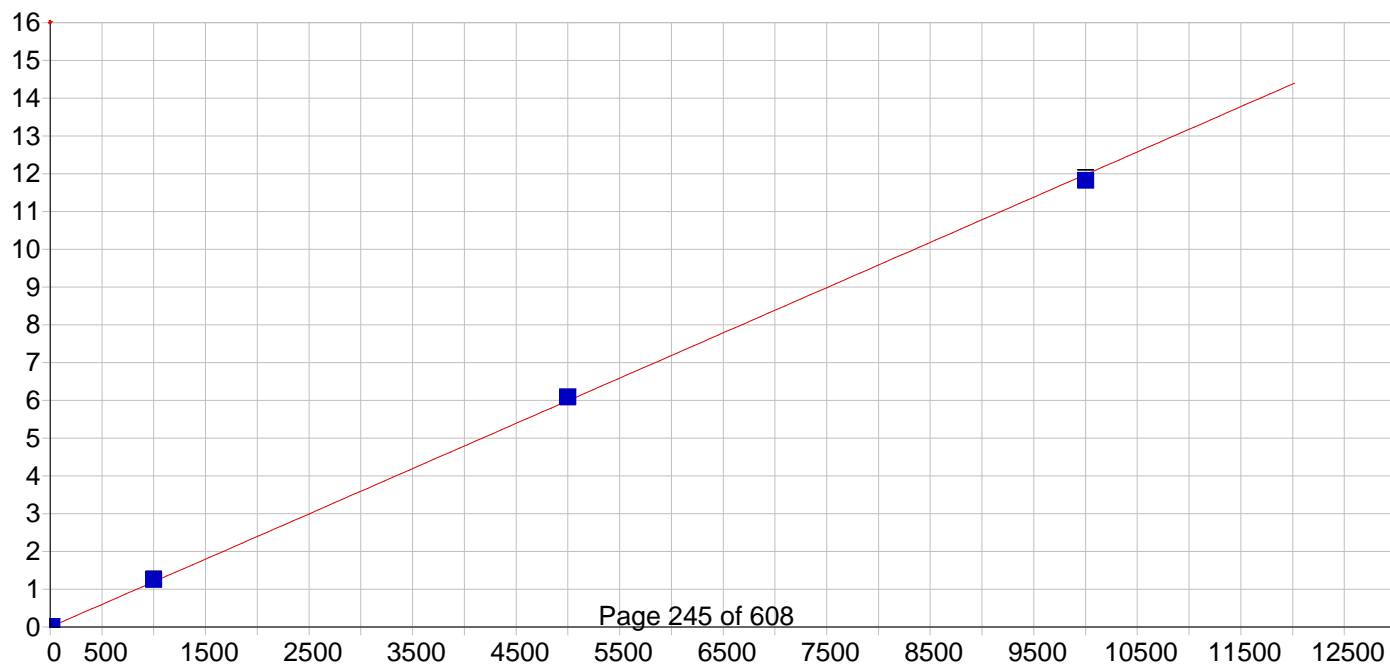


Mg 279.079 {121}

Date of Fit: 3/29/2016 15:40:16 Type of Fit: Linear Weighting: 1/Conc

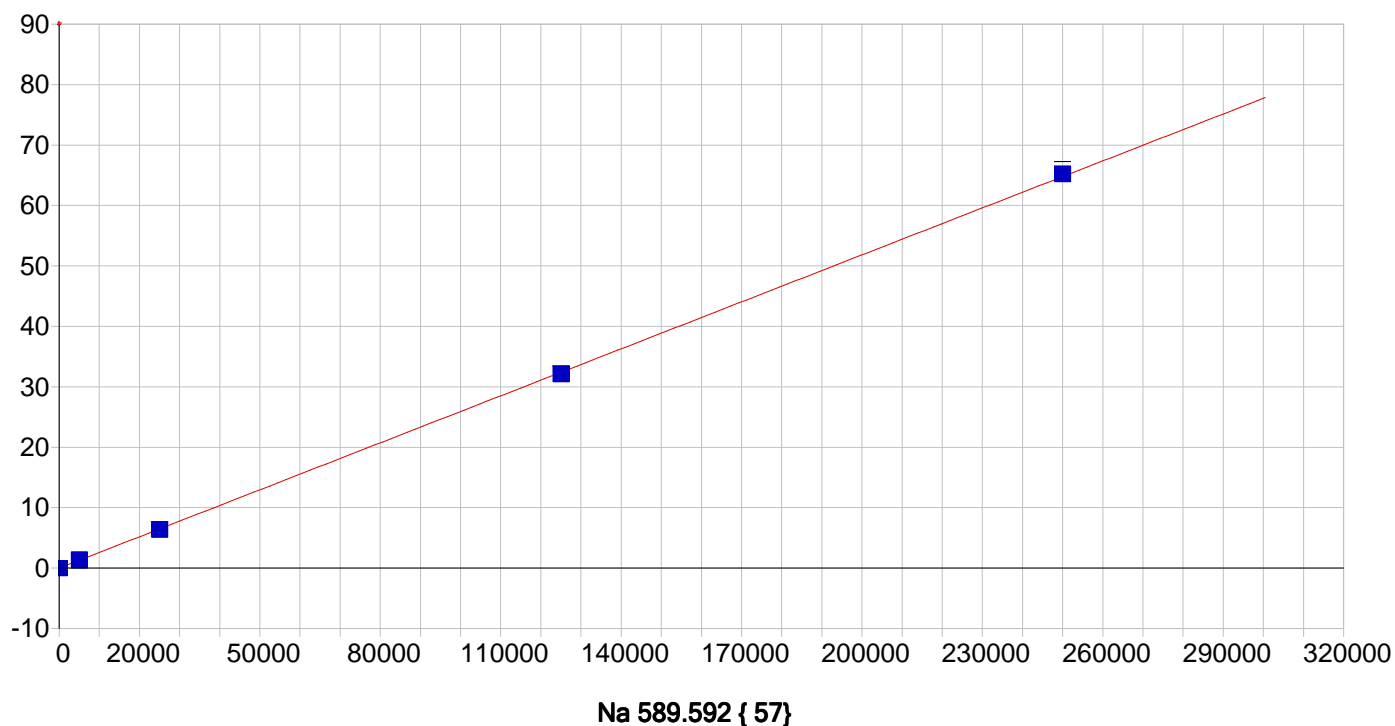
A0 (Offset): -0.000021 Re-Slope: 1.000000
 A1 (Gain): 0.000023 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 0.999993 Status: OK.
 Std Error of Est: 0.000162
 Predicted MDL: 5.015271
 Predicted MQL: 16.717569

Std. Name	Stated	Conc.	Found	Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000		-.14871		-.149	.000	-.00002	.000	1
CAL2	5000.0		5125.4		125.	2.51	.11734	.000	1
CAL3	25000.		25103.		103.	.412	.57440	.001	1
CAL4	125000.		125360.		362.	.290	2.8686	.013	1
CAL5	250000.		249410.		-591.	-.236	5.7071	.014	1



Predicted MDL: 0.078502
Predicted MQL: 0.261674

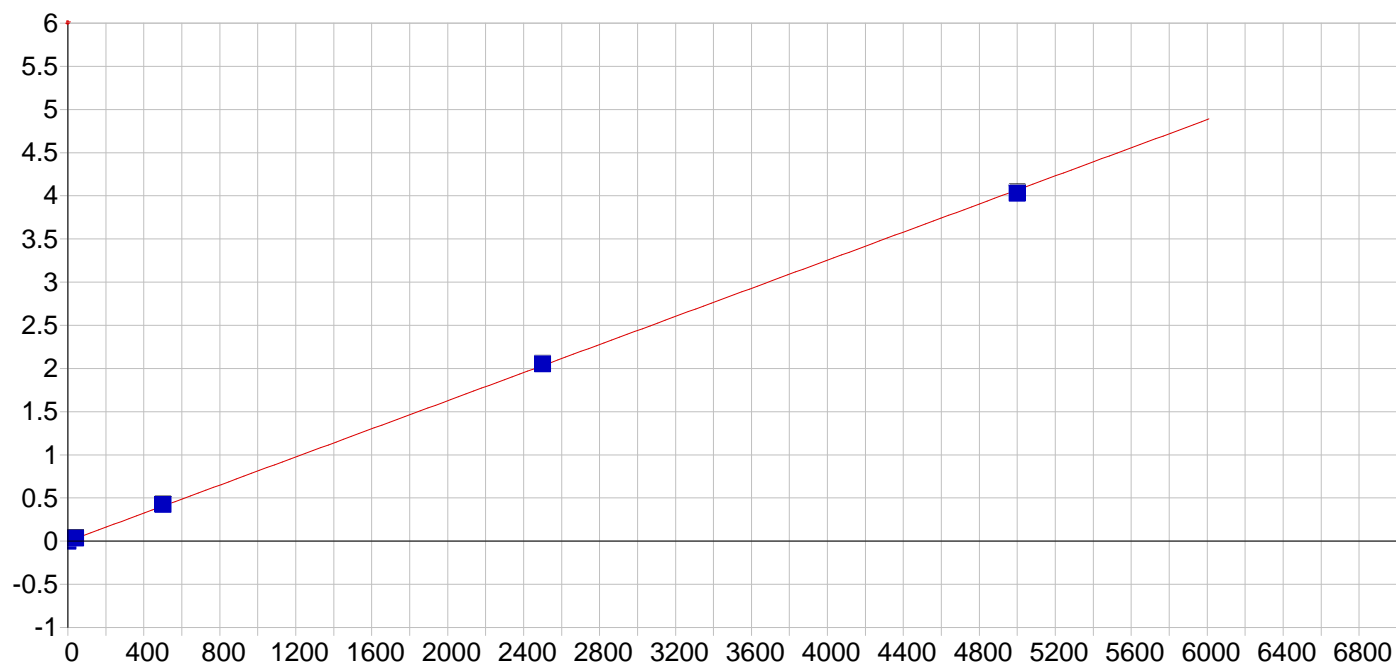
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	-.00204	-.002	.000	.00030	.000	1
CAL2	15.000	16.259	1.26	8.40	.01979	.000	1
CAL3	1000.0	1048.9	48.9	4.89	1.2572	.002	1
CAL4	5000.0	5081.0	81.0	1.62	6.0893	.014	1
CAL5	10000.	9868.9	-131.	-1.31	11.827	.069	1



Date of Fit: 3/29/2016 15:40:16 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000451 Re-Slope: 1.000000
A1 (Gain): 0.000259 Y-int: 0.000000
A2 (Curvature): 0.000000
n (Exponent): 1.000000
Correlation: 0.999964 Status: OK.
Std Error of Est: 0.004031
Predicted MDL: 8.597245
Predicted MQL: 28.657485

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	.07529	.075	.000	.00047	.001	1
CAL2	5000.0	5031.6	31.6	.633	1.3043	.001	1
CAL3	25000.	24536.	-464.	-1.86	6.3603	.006	1
CAL4	125000.	123860.	-1140.	-.912	32.105	.051	1
CAL5	250000.	251570.	1570.	.629	65.208	.744	1

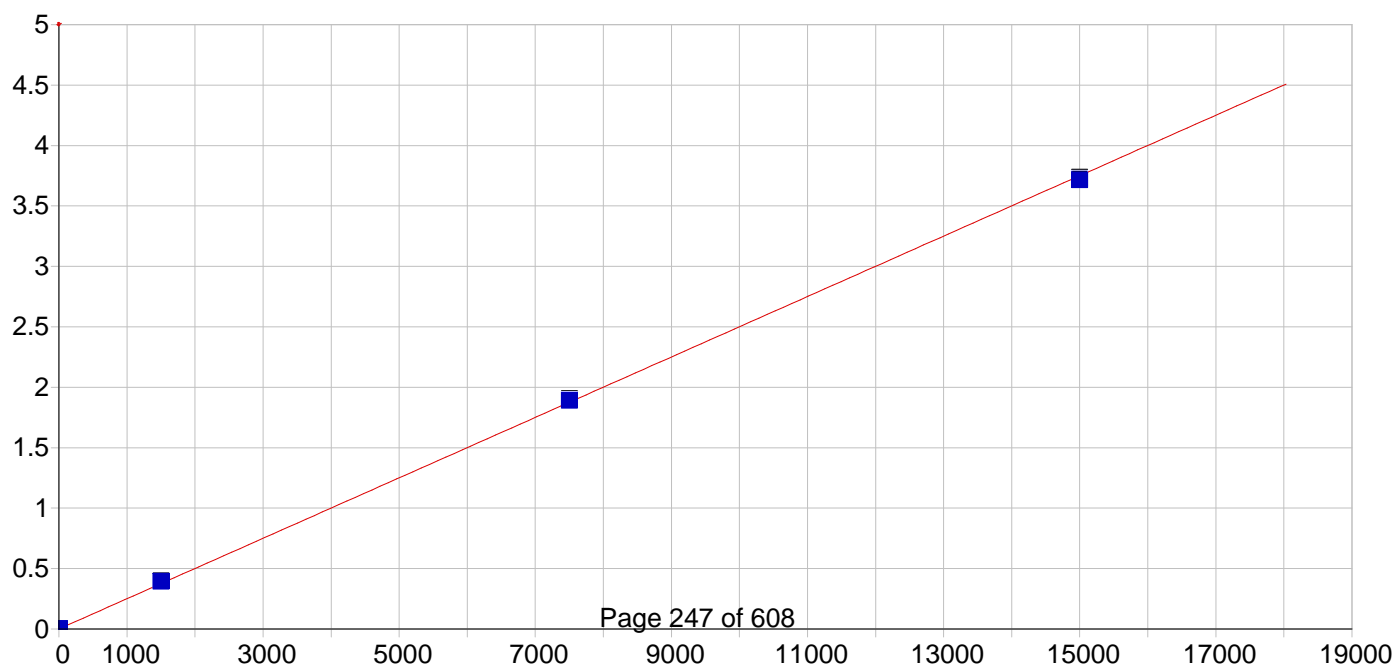


Ni 231.604 {446}

Date of Fit: 3/29/2016 15:40:16 Type of Fit: Linear Weighting: 1/Conc

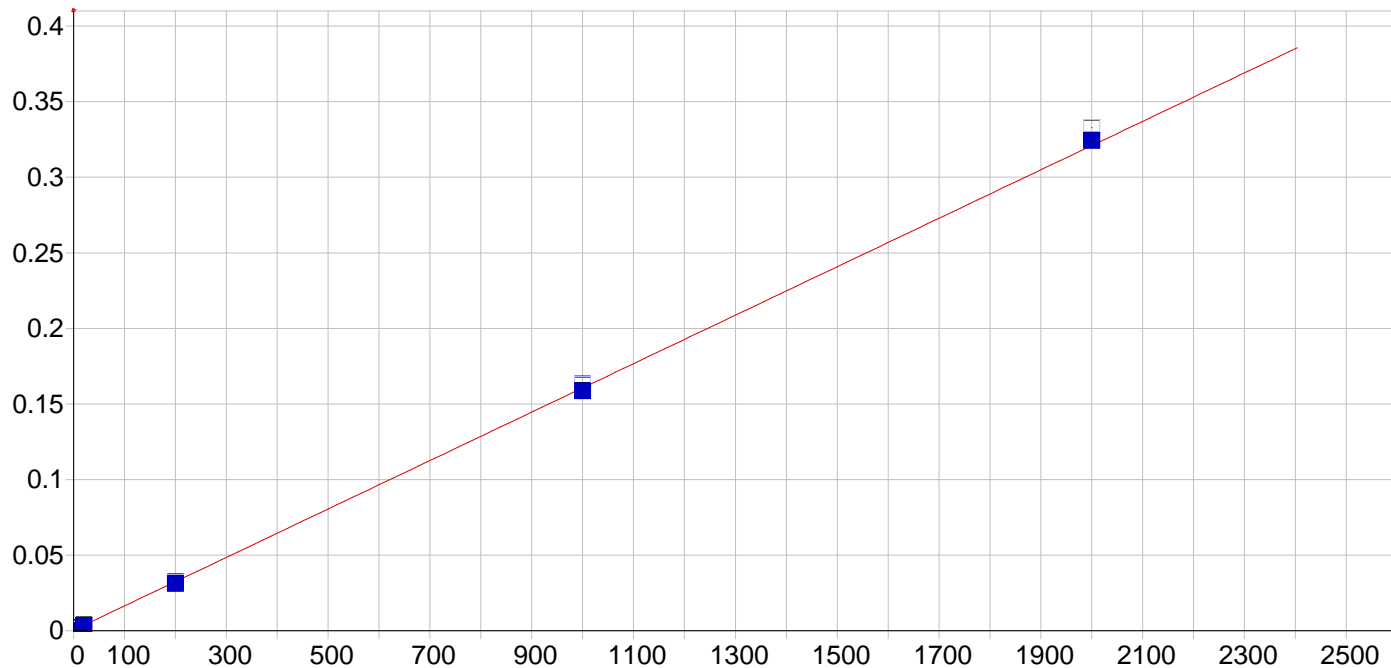
A0 (Offset): -0.001070 Re-Slope: 1.000000
 A1 (Gain): 0.000814 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 0.999872 Status: OK.
 Std Error of Est: 0.000301
 Predicted MDL: 0.470945
 Predicted MQL: 1.569818

Std. Name	Stated	Conc.	Found	Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000		-.00529		-.005	.000	-.00107	.000	1
CAL2	40.000		43.456		3.46	8.64	.03430	.001	1
CAL3	500.00		523.39		23.4	4.68	.42540	.000	1
CAL4	2500.0		2521.8		21.8	.871	2.0538	.005	1
CAL5	5000.0		4951.4		-48.6	-.972	4.0337	.007	1



Predicted MDL: 1.429050
 Predicted MQL: 4.763502

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	-.00157	-.002	.000	.00051	.000	1
CAL2	10.000	11.558	1.56	15.6	.00341	.000	1
CAL3	1500.0	1571.5	71.5	4.77	.39472	.000	1
CAL4	7500.0	7561.8	61.8	.824	1.8976	.006	1
CAL5	15000.	14865.	-135.	-.903	3.7299	.008	1
CAL1	5.0000	5.5557	.556	11.1	.00190	.000	1

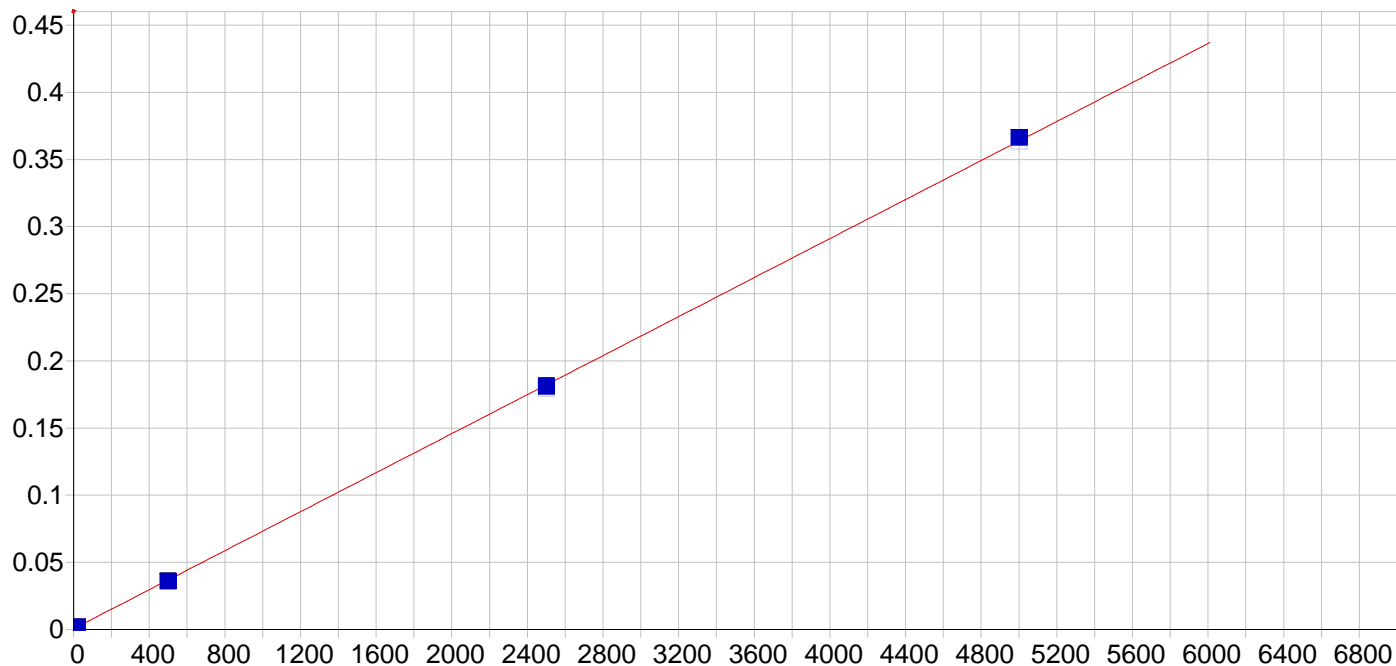


Sb 206.833 {463}

Date of Fit: 3/29/2016 15:40:16 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000395 Re-Slope: 1.000000
 A1 (Gain): 0.000160 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 0.999873 Status: OK.
 Std Error of Est: 0.000018
 Predicted MDL: 1.742610
 Predicted MQL: 5.808699

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	-.00037	-.000	.000	.00040	.000	1
CAL2	20.000	19.488	-.512	-2.56	.00342	.000	1
CAL3	200.00	191.59	-8.41	-4.21	.03196	.000	1
CAL4	1000.0	987.07	-12.9	-1.29	.16288	.000	1
CAL5	2000.0	2020.8	20.8	1.04	.33284	.000	1
CAL1	10.000	11.074	1.07	10.7	.00217	.000	1

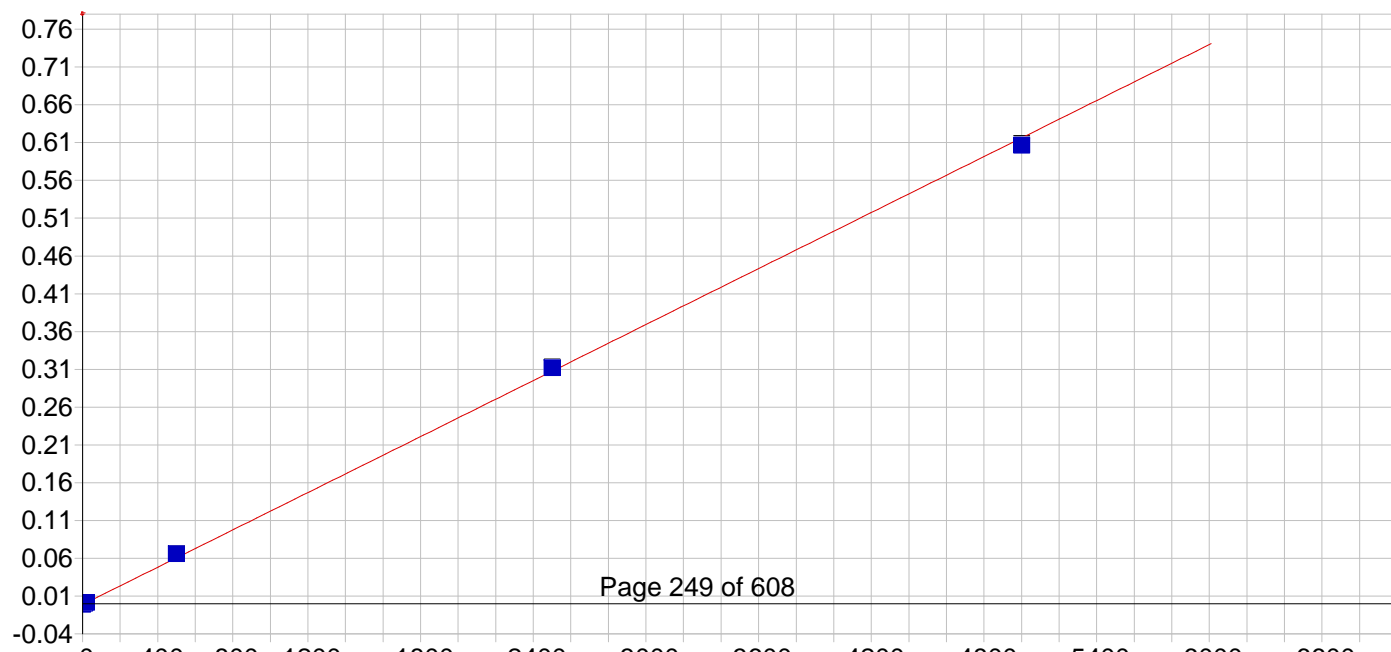


Se 196.090 (472)

Date of Fit: 3/29/2016 15:40:16 Type of Fit: Linear Weighting: 1/Conc

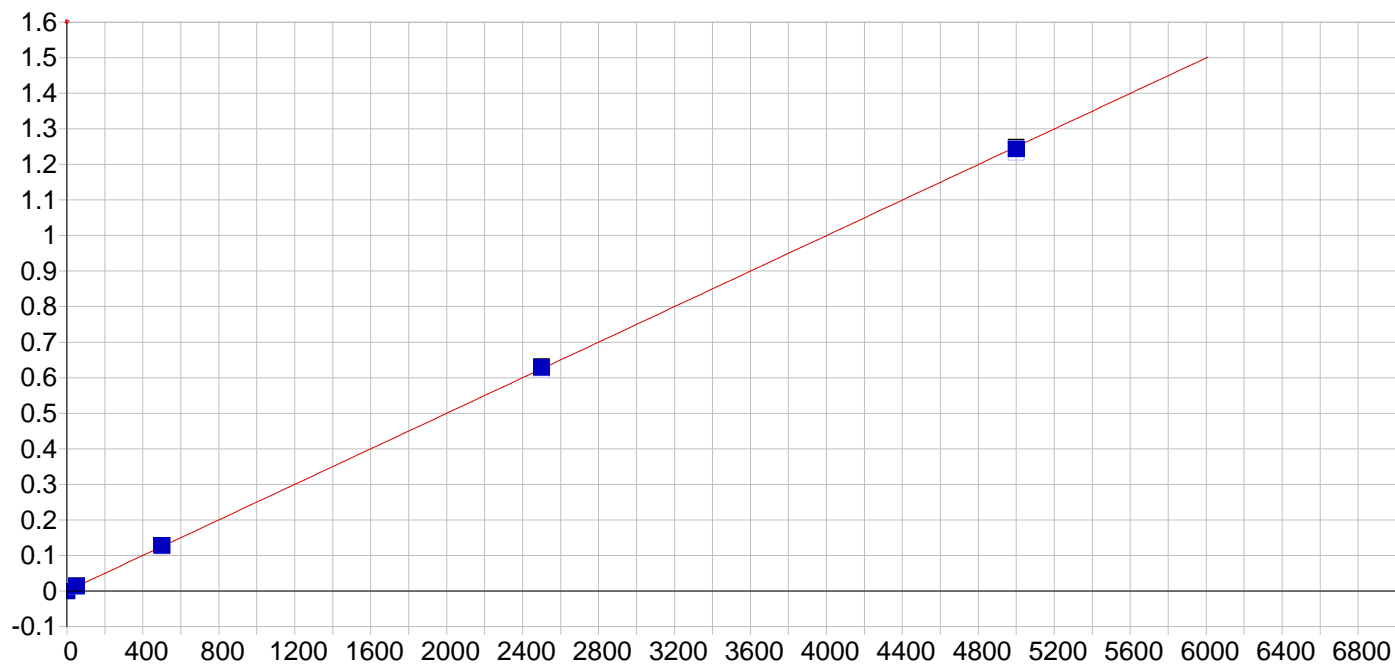
A0 (Offset): 0.000575 Re-Slope: 1.000000
 A1 (Gain): 0.000073 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 0.999897 Status: OK.
 Std Error of Est: 0.000008
 Predicted MDL: 3.050953
 Predicted MQL: 10.169844

Std. Name	Stated	Conc.	Found	Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000		.00243		.002	.000	.00057	.000	1
CAL2	20.000		16.953		-3.05	-15.2	.00181	.000	1
CAL3	500.00		487.17		-12.8	-2.57	.03568	.000	1
CAL4	2500.0		2482.8		-17.2	-.690	.17952	.001	1
CAL5	5000.0		5034.7		34.7	.694	.36349	.000	1
CAL1	5.0000		3.4648		-1.54	-30.7	.00083	.000	1



Std Error of Est: 0.000037
 Predicted MDL: 2.067422
 Predicted MQL: 6.891406

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	-.00383	-.004	.000	-.00121	.000	1
CAL2	20.000	22.235	2.24	11.2	.00154	.000	1
CAL3	500.00	541.95	41.9	8.39	.06582	.000	1
CAL4	2500.0	2535.6	35.6	1.43	.31243	.001	1
CAL5	5000.0	4918.3	-81.7	-1.63	.60719	.001	1
CAL1	10.000	11.893	1.89	18.9	.00026	.000	1

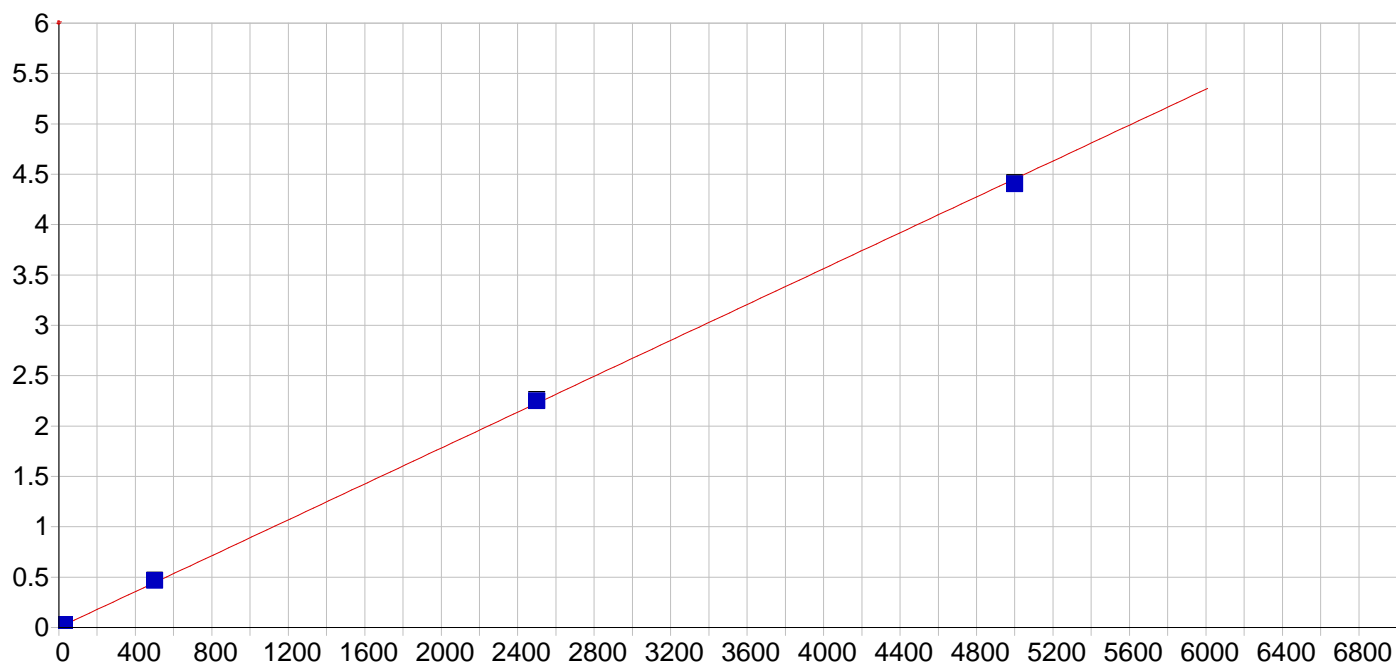


V 292.402 {115}

Date of Fit: 3/29/2016 15:40:16 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.000021 Re-Slope: 1.000000
 A1 (Gain): 0.000250 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 0.999969 Status: OK.
 Std Error of Est: 0.000051
 Predicted MDL: 0.474855
 Predicted MQL: 1.582850

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	-.00334	-.003	.000	-.00002	.000	1
CAL2	50.000	52.362	2.36	4.72	.01303	.000	1
CAL3	500.00	509.63	9.63	1.93	.12635	.000	1
CAL4	2500.0	2513.2	13.2	.530	.62312	.002	1
CAL5	5000.0	4974.7	-25.3	-5.05	1.2333	.005	1

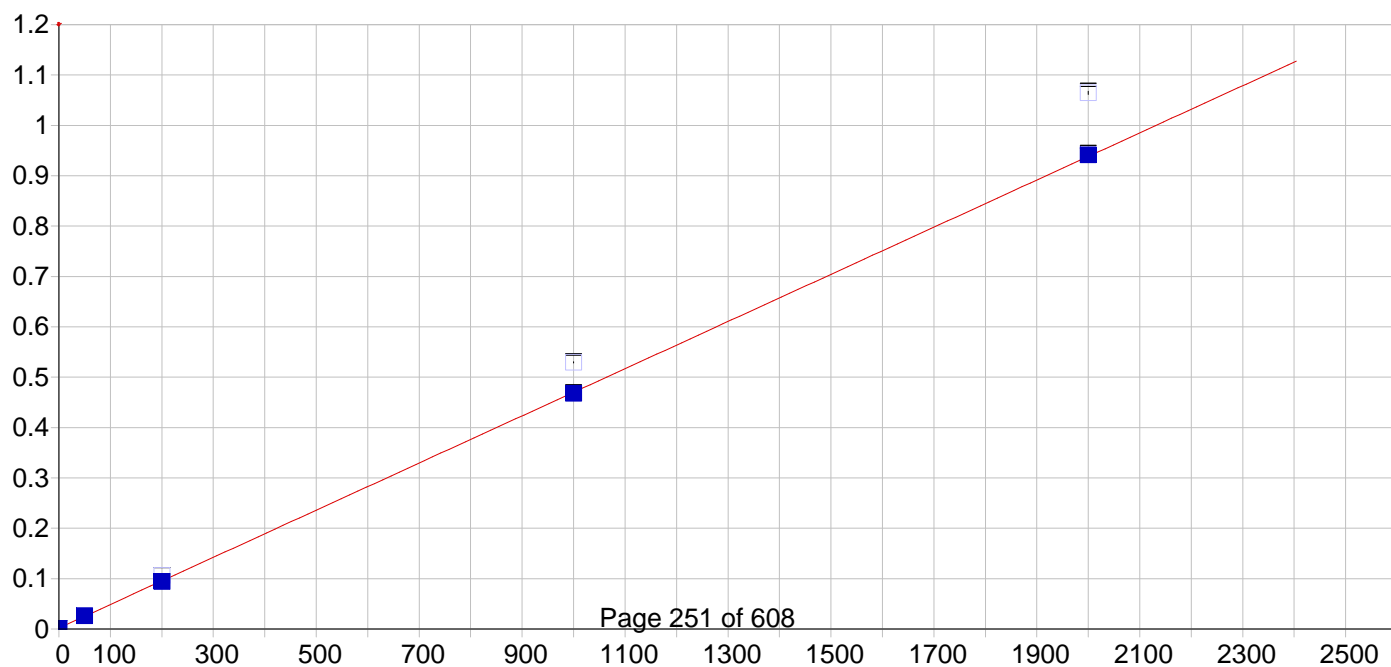


Zn 206.200 {463}

Date of Fit: 3/29/2016 15:40:16 Type of Fit: Linear Weighting: 1/Conc

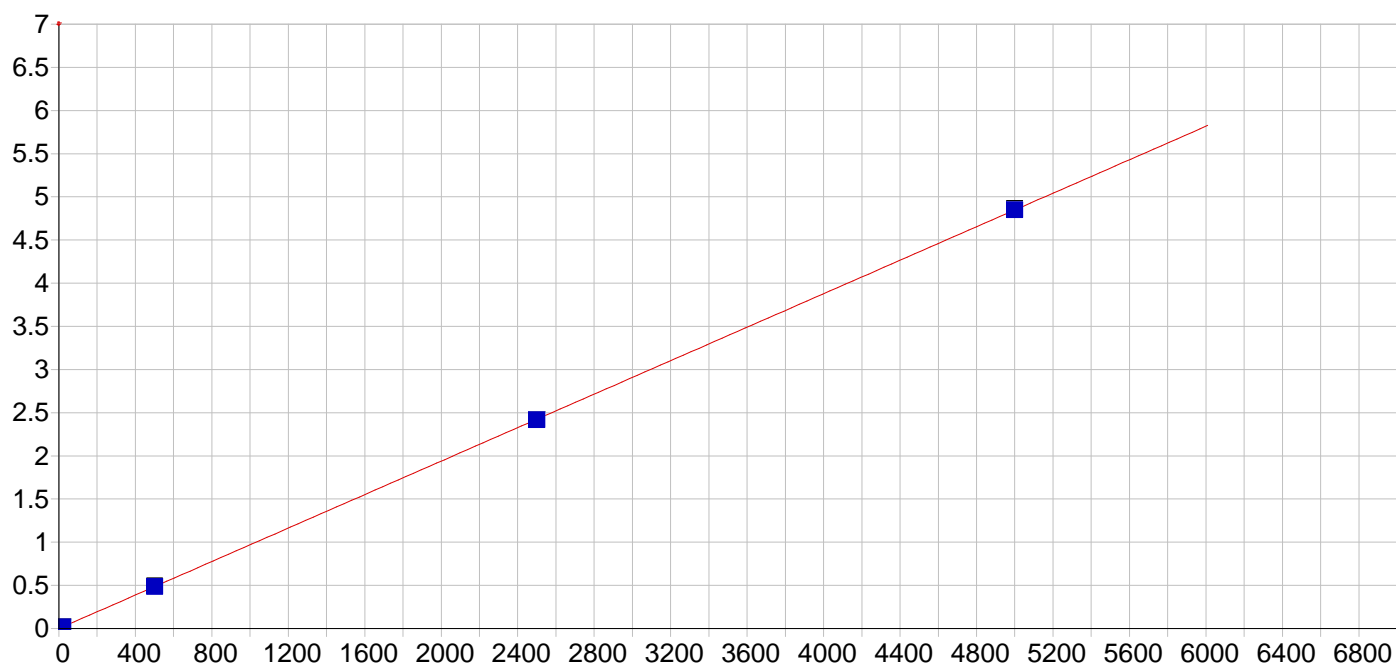
A0 (Offset): 0.000354 Re-Slope: 1.000000
 A1 (Gain): 0.000891 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 0.999864 Status: OK.
 Std Error of Est: 0.000294
 Predicted MDL: 0.254037
 Predicted MQL: 0.846789

Std. Name	Stated	Conc.	Found	Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000		-.00352		-.004	.000	.00035	.000	1
CAL2	30.000		32.066		2.07	6.89	.02891	.000	1
CAL3	500.00		524.06		24.1	4.81	.46670	.001	1
CAL4	2500.0		2527.6		27.6	1.10	2.2495	.011	1
CAL5	5000.0		4946.3		-53.7	-1.07	4.4017	.009	1



Predicted MDL: 0.565025
 Predicted MQL: 1.883417

Std. Name	Stated	Conc.	Found	Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000		-.00108		-.001	.000	.00177	.000	1
CAL2	50.000		51.995		2.00	3.99	.02661	.000	1
CAL3	200.00		196.67		-3.33	-1.67	.10619	.000	1
CAL4	1000.0		995.26		-4.74	-.474	.52943	.001	1
CAL5	2000.0		2006.3		6.28	.314	1.0645	.003	1

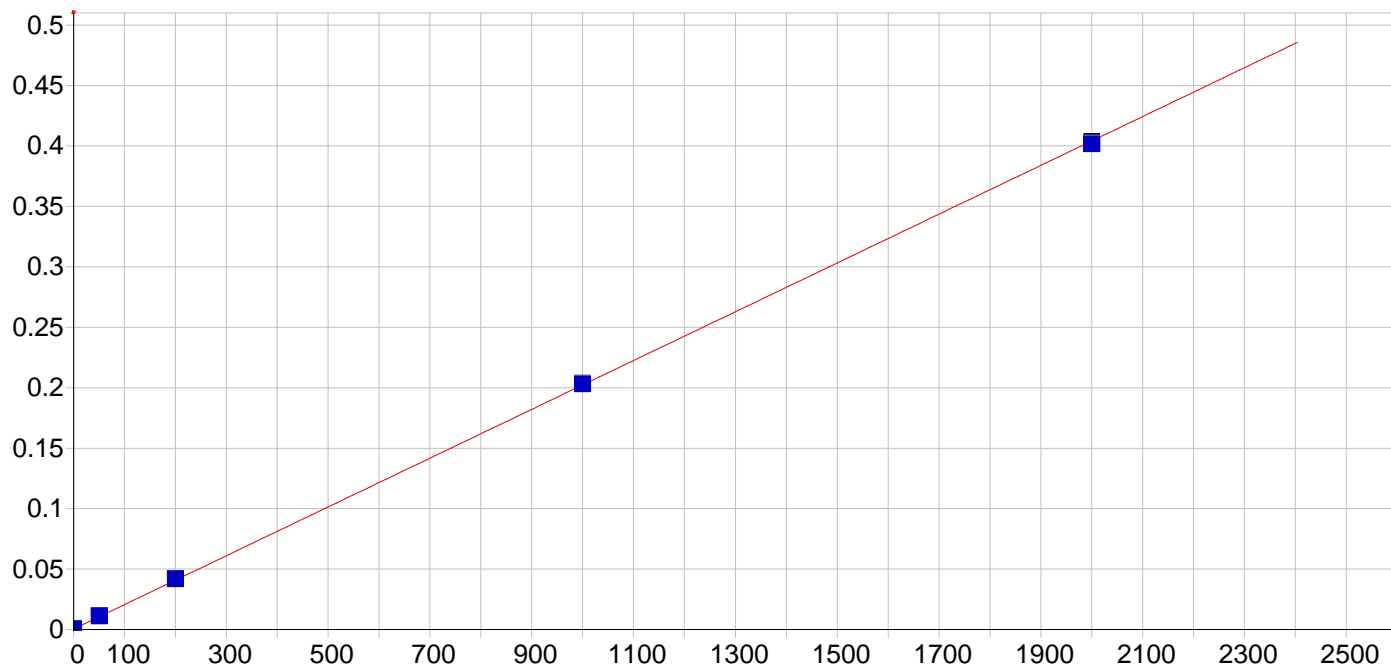


Mo 202.030 {467}

Date of Fit: 3/29/2016 15:40:16 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000470 Re-Slope: 1.000000
 A1 (Gain): 0.000969 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 0.999999 Status: OK.
 Std Error of Est: 0.000027
 Predicted MDL: 0.240949
 Predicted MQL: 0.803164

Std. Name	Stated	Conc.	Found	Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000		-.00013		-.000	.000	.00047	.000	1
CAL2	20.000		20.072		.072	.361	.01993	.000	1
CAL3	500.00		502.29		2.29	.457	.48726	.000	1
CAL4	2500.0		2494.8		-5.19	-.207	2.4183	.001	1
CAL5	5000.0		5002.8		2.83	.057	4.8490	.011	1

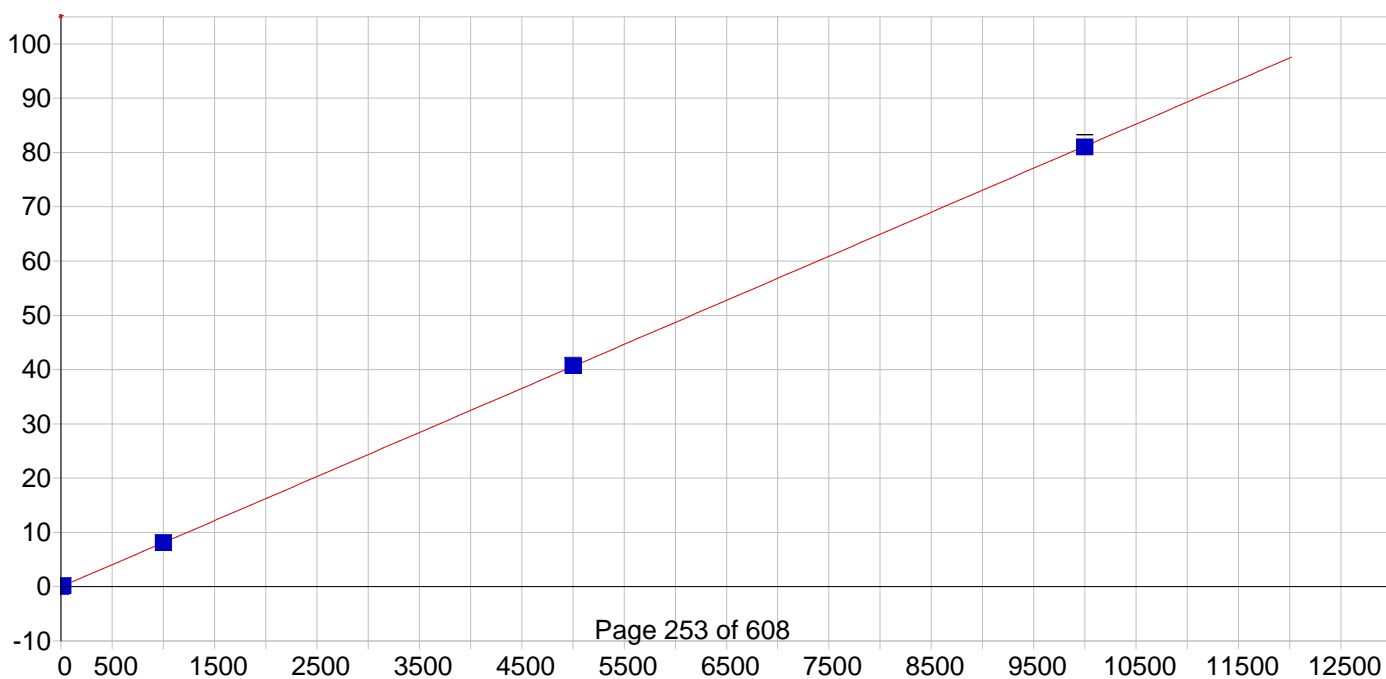


Sn 189.989 {477}

Date of Fit: 3/29/2016 15:40:16 Type of Fit: Linear Weighting: 1/Conc

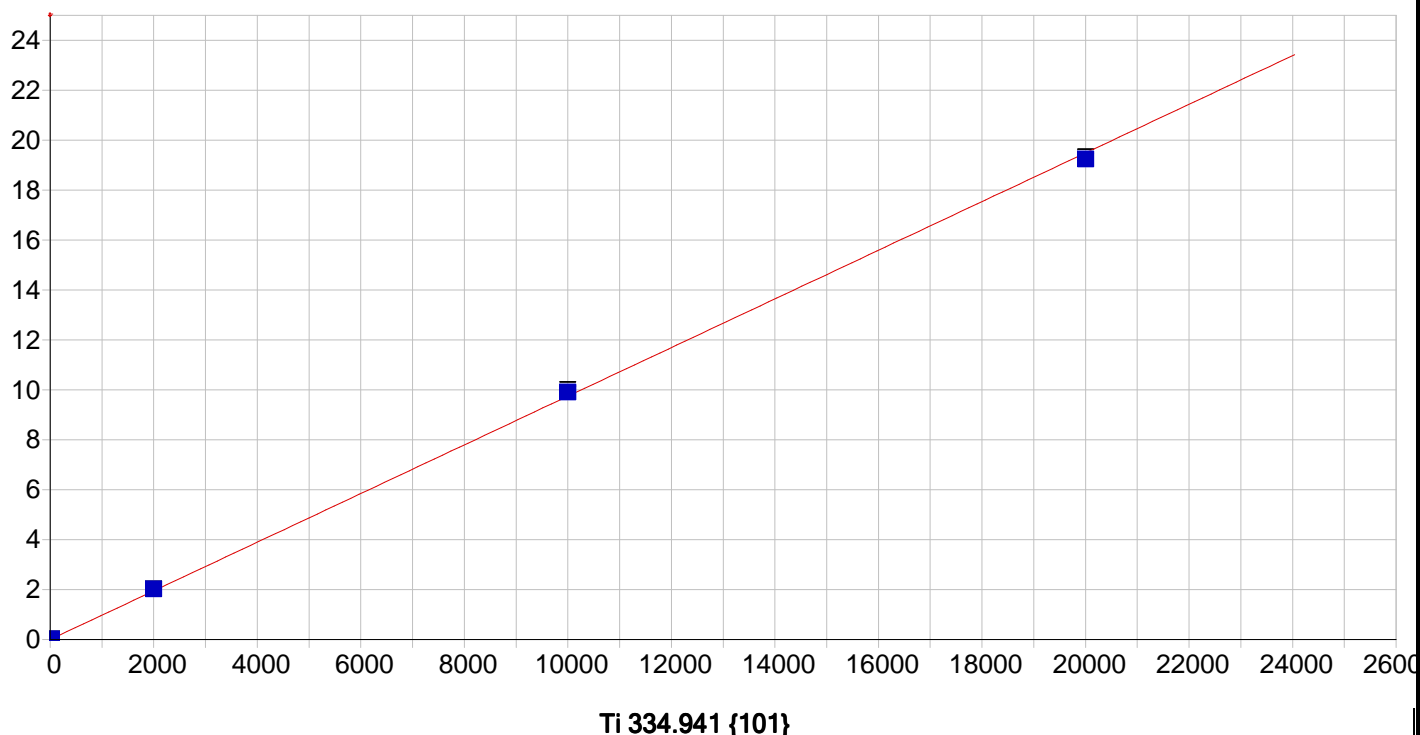
A0 (Offset): 0.000450 Re-Slope: 1.000000
 A1 (Gain): 0.000202 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 0.999944 Status: OK.
 Std Error of Est: 0.000035
 Predicted MDL: 0.849657
 Predicted MQL: 2.832190

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	-.00393	-.004	.000	.00045	.000	1
CAL2	50.000	52.747	2.75	5.49	.01110	.000	1
CAL3	200.00	205.17	5.17	2.58	.04192	.000	1
CAL4	1000.0	1003.6	3.64	.364	.20330	.000	1
CAL5	2000.0	1988.5	-11.5	-.577	.40235	.001	1



Predicted MDL: 0.121065
 Predicted MQL: 0.403549

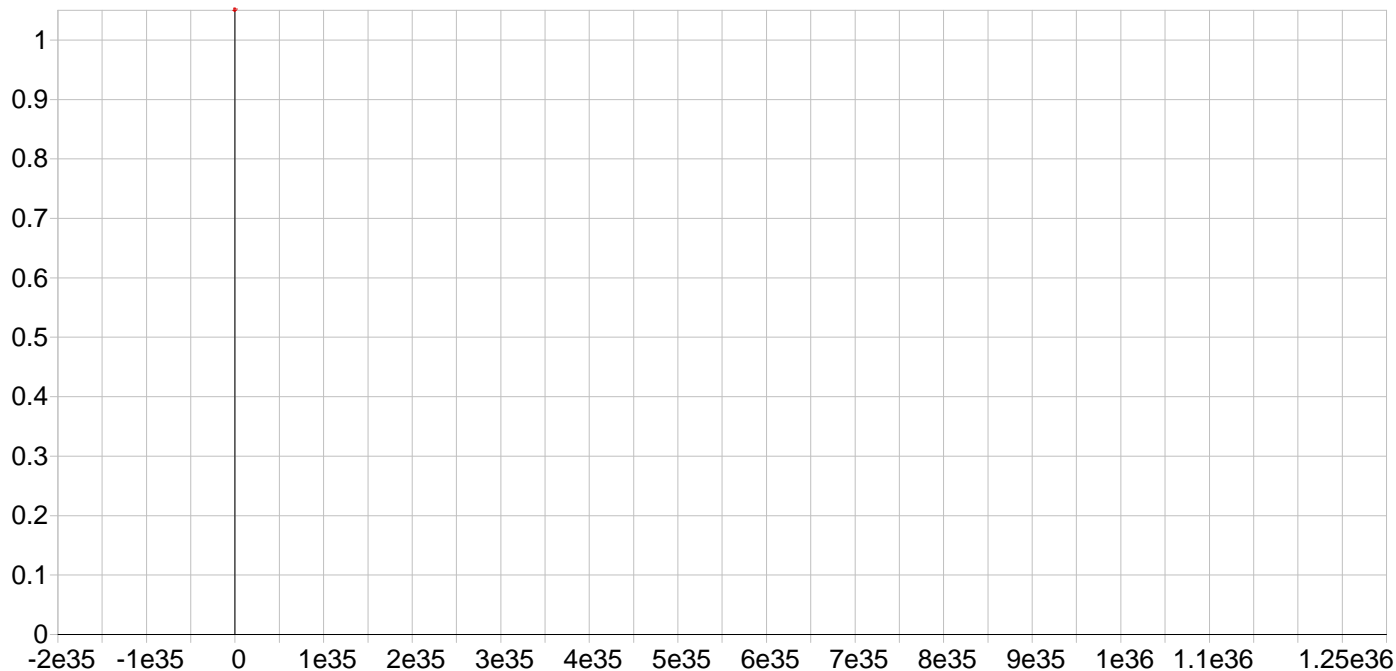
Std. Name	Stated	Conc.	Found	Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000		-.00094		-.001	.000	-.00198	.000	1
CAL2	20.000		20.897		.897	4.48	.16789	.002	1
CAL3	1000.0		1000.8		.776	.078	8.1257	.007	1
CAL4	5000.0		5018.0		18.0	.360	40.751	.009	1
CAL5	10000.		9980.3		-19.7	-.197	81.052	.796	1



Date of Fit: 3/29/2016 15:40:16 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000650 Re-Slope: 1.000000
 A1 (Gain): 0.000974 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 0.999857 Status: OK.
 Std Error of Est: 0.000539
 Predicted MDL: 0.195567
 Predicted MQL: 0.651889

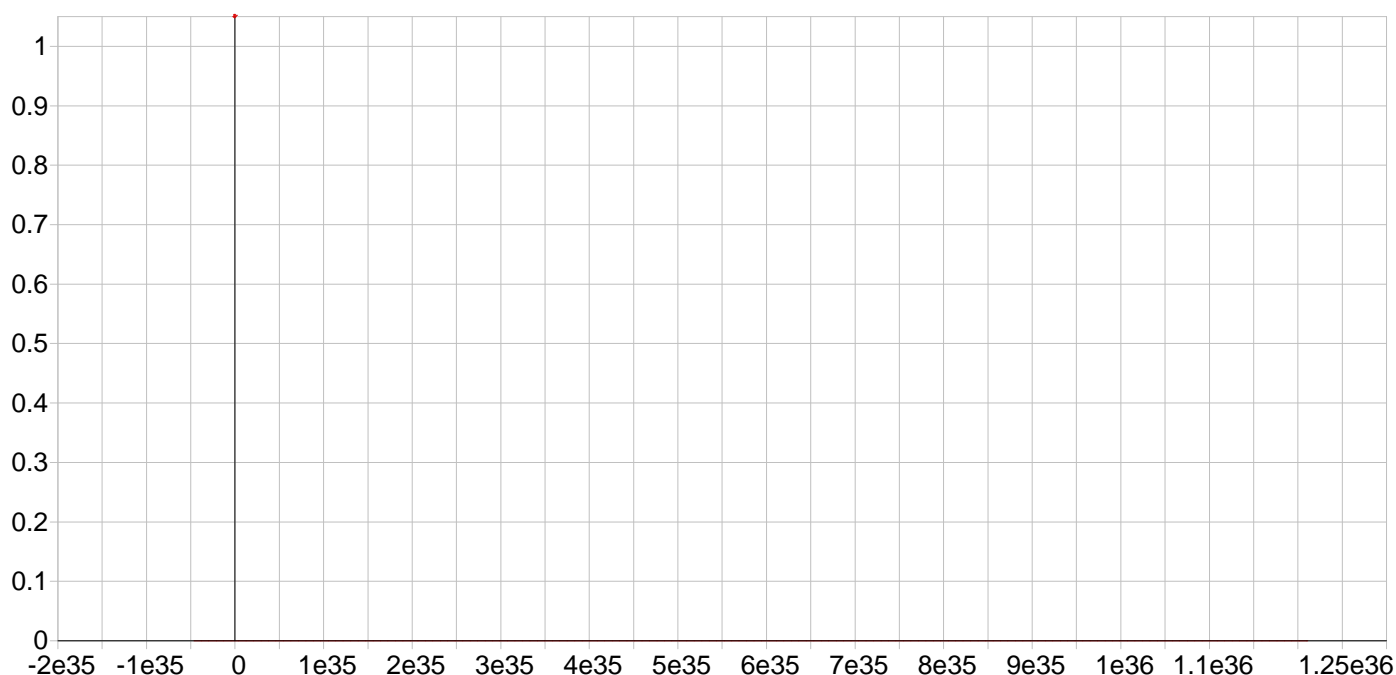
Std. Name	Stated	Conc.	Found	Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000		-.00248		-.002	.000	.00065	.000	1
CAL2	20.000		21.611		1.61	8.06	.02171	.000	1
CAL3	2000.0		2077.2		77.2	3.86	2.0248	.003	1
CAL4	10000.		10171.		171.	1.71	9.9124	.084	1
CAL5	20000.		19750.		-250.	-1.25	19.247	.075	1



Y 224.306 {450}*
Date of Fit: 3/29/2016 15:14:01 Type of Fit: Linear Weighting: 1/Conc

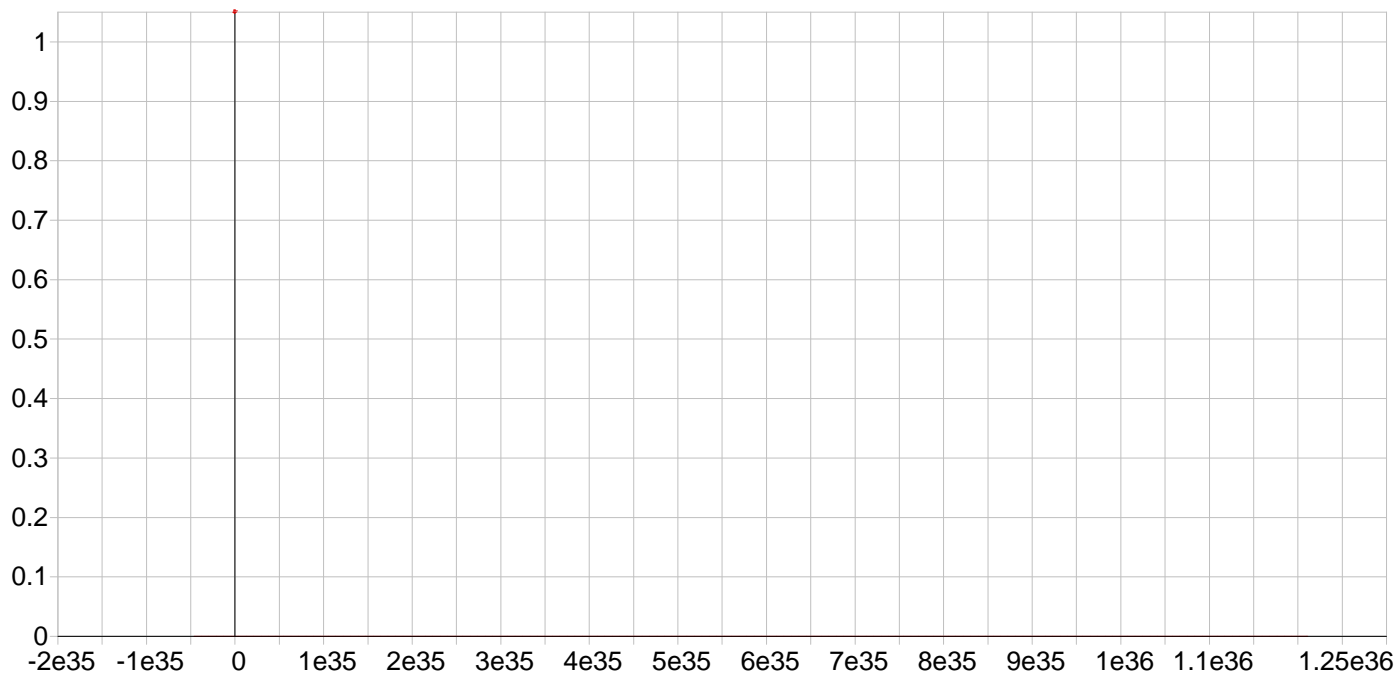
A0 (Offset): 0.000000 Re-Slope: 1.000000
A1 (Gain): 0.000000 Y-int: 0.000000
A2 (Curvature): 0.000000
n (Exponent): 1.000000
Correlation: 0.000000 Status: Warning Zero Gain
Std Error of Est: 183.492520
Predicted MDL: n/a
Predicted MQL: n/a

Std. Name	Stated	Conc.	Found	Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
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Y 360.073 { 94}*
Date of Fit: 3/29/2016 15:14:01 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000000 Re-Slope: 1.000000
A1 (Gain): 0.000000 Y-int: 0.000000

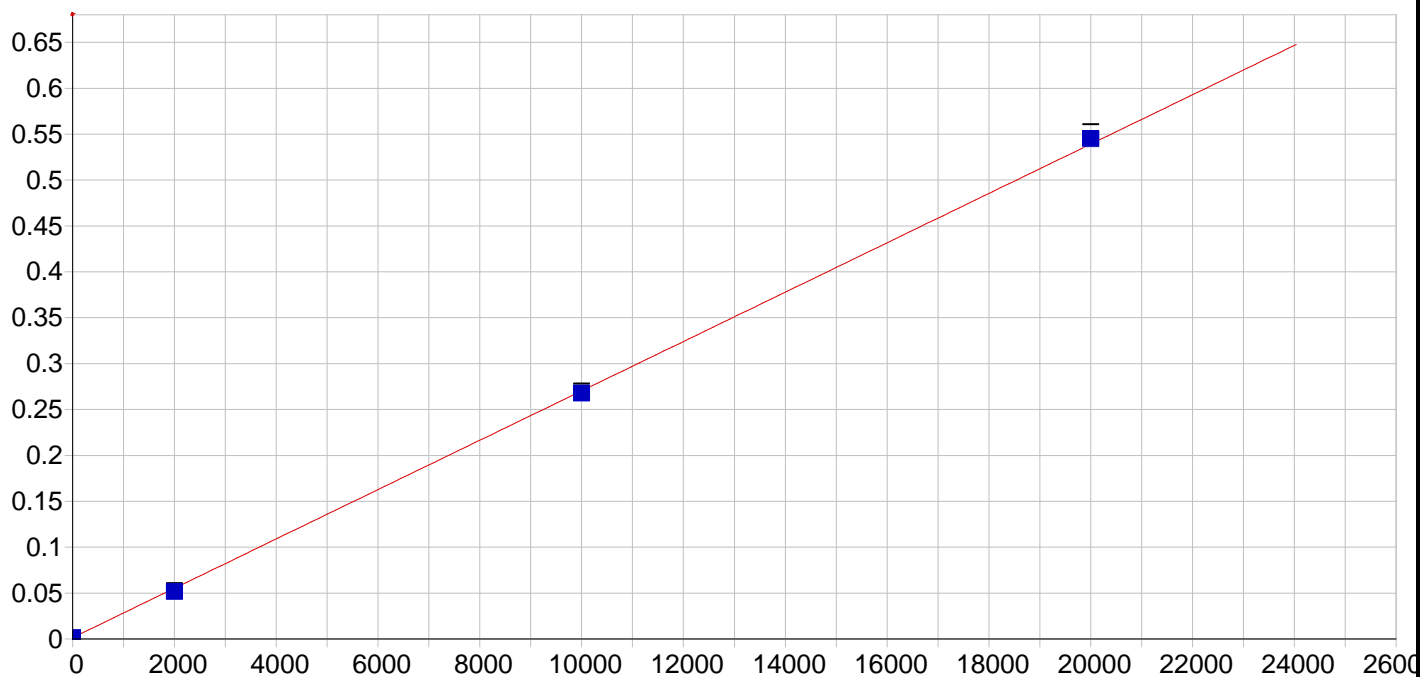


Y 371.030 { 91}*

Date of Fit: 3/29/2016 15:14:01 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000000 Re-Slope: 1.000000
 A1 (Gain): 0.000000 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 0.000000 Status: Warning Zero Gain
 Std Error of Est: 192.759705
 Predicted MDL: n/a
 Predicted MQL: n/a

Std. Name	Stated	Conc.	Found	Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
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Si 288.158 {117}

Date of Fit: 3/29/2016 15:40:16 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.001442 Re-Slope: 1.000000

Std. Name	Stated	Conc.	Found	Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000		.12906		.129	.000	.00145	.000	1
CAL5	20000.		20222.		222.	1.11	.54428	.007	1
CAL3	2000.0		1866.4		-134.	-6.68	.05154	.001	1
CAL4	10000.		9911.5		-88.5	-.885	.26750	.002	1

Sample Name: ICIS Cal Blk Acquired: 3/29/2016 15:15:00 Type: Cal
Method: sw03182016(v13) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-0.0005	-0.0004	-0.0005	-0.0000	.0008	-0.0019
Stddev	.0005	.0001	.0001	.0002	.0004	.0001
%RSD	97.03	34.43	28.54	329.6	45.93	3.564

#1	-0.0010	-0.0004	-0.0004	.0001	.0012	-0.0019
#2	-0.0001	-0.0003	-0.0006	-0.0002	.0005	-0.0019
#3	-0.0003	-0.0005	-0.0005	-0.0001	.0007	-0.0018

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-0.0029	-0.0006	.0001	.0020	.0002	-0.0061
Stddev	.0002	.0003	.0000	.0000	.0001	.0020
%RSD	5.894	54.08	41.98	1.451	42.00	32.46

#1	-0.0027	-0.0010	.0001	.0020	.0002	-0.0046
#2	-0.0031	-0.0003	.0001	.0020	.0002	-0.0055
#3	-0.0030	-0.0005	.0000	.0019	.0001	-0.0084

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-0.0000	.0003	.0005	-0.0011	.0005	.0004
Stddev	.0000	.0001	.0010	.0002	.0003	.0001
%RSD	140.7	21.18	202.4	20.23	52.18	25.57

#1	-0.0001	.0002	-0.0005	-0.0013	.0002	.0003
#2	-0.0000	.0004	.0005	-0.0011	.0006	.0004
#3	.0000	.0003	.0014	-0.0008	.0007	.0005

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0006	-0.0012	-0.0000	.0004	.0018	.0005
Stddev	.0002	.0001	.0001	.0002	.0003	.0001
%RSD	26.63	9.542	270.5	70.62	18.97	12.77

#1	.0004	-0.0012	.0000	.0001	.0020	.0005
#2	.0007	-0.0013	-0.0000	.0003	.0019	.0004
#3	.0007	-0.0011	-0.0001	.0006	.0014	.0005

Sample Name: ICIS Cal Blk Acquired: 3/29/2016 15:15:00 Type: Cal
Method: sw03182016(v13) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0004	-.0020	.0006	.0014
Stddev	.0001	.0003	.0002	.0003
%RSD	25.09	14.52	30.00	21.43

#1	.0004	-.0023	.0007	.0018
#2	.0006	-.0020	.0008	.0012
#3	.0004	-.0017	.0004	.0014

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2769.9	30685.	4876.8
Stddev	8.3	65.	10.9
%RSD	.30112	.21237	.22321

#1	2773.1	30669.	4876.1
#2	2760.4	30756.	4866.2
#3	2776.1	30629.	4888.0

Sample Name: CAL1 Acquired: 3/29/2016 15:19:20 Type: Cal
Method: sw03182016(v13) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Pb2203	Sb2068	Se196	Tl1908
Line	189.042 {478}	220.353 {453}	206.833 {463}	196.090 {472}	190.856 {477}
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0000	.0019	.0022	.0008	.0003
Stddev	.0000	.0002	.0002	.0002	.0001
%RSD	112.8	9.452	7.396	24.07	39.12

#1	-.0000	.0019	.0020	.0008	.0003
#2	.0000	.0017	.0024	.0006	.0003
#3	.0001	.0021	.0021	.0010	.0001

Int. Std.	Y_2243
Line	224.306 {450}
Units	Cts/S
Avg	2813.5
Stddev	31.2
%RSD	1.1084

#1	2791.3
#2	2800.1
#3	2849.2

Sample Name: CAL2 Acquired: 3/29/2016 15:23:39 Type: Cal
Method: sw03182016(v13) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0074	.0008	.0027	.5534	.0084	.1357
Stddev	.0002	.0000	.0001	.0022	.0004	.0005
%RSD	2.099	2.820	2.470	.3931	4.237	.3912

#1	.0074	.0009	.0028	.5509	.0080	.1351
#2	.0073	.0008	.0027	.5547	.0084	.1361
#3	.0076	.0009	.0026	.5546	.0087	.1359

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0116	.0648	.0021	.0136	.0018	.3596
Stddev	.0002	.0006	.0001	.0002	.0001	.0014
%RSD	1.291	.9341	6.628	1.167	3.098	.4021

#1	.0118	.0644	.0022	.0136	.0017	.3580
#2	.0116	.0655	.0020	.0137	.0018	.3605
#3	.0115	.0645	.0022	.0134	.0018	.3604

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.1173	.0198	1.304	.0343	.0034	.0034
Stddev	.0005	.0001	.001	.0005	.0003	.0002
%RSD	.3943	.7387	.0486	1.501	8.925	4.653

#1	.1168	.0196	1.305	.0337	.0035	.0032
#2	.1177	.0198	1.304	.0345	.0037	.0036
#3	.1175	.0199	1.304	.0347	.0031	.0035

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0018	.0015	.0130	.0289	.0266	.0199
Stddev	.0001	.0002	.0000	.0003	.0003	.0003
%RSD	6.401	11.77	.2314	1.067	1.174	1.258

#1	.0019	.0013	.0131	.0287	.0268	.0197
#2	.0017	.0016	.0130	.0287	.0263	.0198
#3	.0019	.0017	.0130	.0293	.0268	.0202

Sample Name: CAL2 Acquired: 3/29/2016 15:23:39 Type: Cal
Method: sw03182016(v13) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349
Line	189.989 {477}	407.771 { 83}	334.941 {101}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)
Units	Cts/S	Cts/S	Cts/S
Avg	.0111	.1679	.0217
Stddev	.0000	.0016	.0001
%RSD	.3979	.9666	.3053

#1	.0111	.1680	.0218
#2	.0111	.1694	.0217
#3	.0111	.1662	.0216

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2826.7	30861.	4991.9
Stddev	9.8	73.	42.9
%RSD	.34750	.23689	.85954

#1	2837.7	30909.	4948.2
#2	2818.8	30897.	5034.0
#3	2823.7	30777.	4993.4

Sample Name: CAL5 Acquired: 3/29/2016 15:36:03 Type: Cal
Method: sw03182016(v13) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9.088	.4433	.7924	51.31	7.245	6.635
Stddev	.031	.0003	.0016	.11	.023	.020
%RSD	.3449	.0756	.1980	.2078	.3206	.2961

#1	9.083	.4432	.7924	51.25	7.267	6.651
#2	9.060	.4431	.7908	51.25	7.221	6.613
#3	9.122	.4437	.7939	51.43	7.246	6.641

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8.407	6.032	1.881	11.47	1.735	7.557
Stddev	.011	.014	.006	.18	.005	.025
%RSD	.1331	.2259	.3449	1.576	.3148	.3241

#1	8.407	6.030	1.880	11.61	1.734	7.562
#2	8.396	6.019	1.875	11.27	1.730	7.530
#3	8.418	6.046	1.887	11.53	1.741	7.579

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5.707	11.83	65.21	4.034	3.730	.3328
Stddev	.014	.07	.74	.007	.008	.0001
%RSD	.2524	.5870	1.140	.1779	.2132	.0290

#1	5.720	11.91	65.54	4.030	3.731	.3329
#2	5.691	11.80	64.36	4.029	3.722	.3329
#3	5.710	11.78	65.73	4.042	3.737	.3327

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.3635	.6072	1.233	4.402	1.064	4.849
Stddev	.0001	.0014	.005	.009	.003	.011
%RSD	.0193	.2322	.3807	.2151	.3040	.2200

#1	.3634	.6067	1.239	4.405	1.063	4.841
#2	.3635	.6088	1.231	4.391	1.062	4.845
#3	.3635	.6061	1.230	4.409	1.068	4.861

Sample Name: CAL5 Acquired: 3/29/2016 15:36:03 Type: Cal
Method: sw03182016(v13) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.4024	81.05	19.25	.5443
Stddev	.0011	.80	.07	.0073
%RSD	.2674	.9816	.3887	1.346

#1	.4022	81.68	19.32	.5434
#2	.4014	80.16	19.24	.5374
#3	.4035	81.32	19.17	.5520

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2464.7	27824.	4759.0
Stddev	11.2	168.	34.8
%RSD	.45429	.60300	.73081

#1	2460.2	27680.	4738.0
#2	2477.5	28008.	4739.8
#3	2456.5	27783.	4799.1

Sample Name: icv 4258363 Acquired: 3/29/2016 15:40:43 Type: QC
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	128500.	2509.	1261.	10290.	1039.	126600.
Stddev	348.	4.	2.	19.	1.	415.
%RSD	.2709	.1509	.1901	.1837	.1255	.3279

#1	128100.	2504.	1260.	10290.	1040.	126700.
#2	128700.	2510.	1264.	10310.	1038.	126900.
#3	128600.	2512.	1261.	10270.	1039.	126100.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1281.	2564.	5138.	12620.	102700.	51130.
Stddev	2.	3.	7.	44.	133.	105.
%RSD	.1628	.1213	.1414	.3508	.1295	.2053

#1	1280.	2565.	5133.	12580.	102600.	51040.
#2	1284.	2566.	5146.	12670.	102800.	51250.
#3	1280.	2560.	5135.	12600.	102700.	51110.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	126500.	5108.	127600.	2575.	7714.	1010.
Stddev	190.	15.	267.	6.	5.	4.
%RSD	.1500	.2870	.2095	.2253	.0636	.3605

#1	126400.	5114.	127300.	2571.	7713.	1006.
#2	126700.	5119.	127900.	2581.	7720.	1011.
#3	126400.	5091.	127600.	2572.	7710.	1013.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: icv 4258363 Acquired: 3/29/2016 15:40:43 Type: QC
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2527.	2592.	2520.	2566.	1025.	2558.
Stddev	10.	21.	8.	4.	2.	6.
%RSD	.3916	.8036	.3284	.1728	.1822	.2168
#1	2522.	2568.	2521.	2562.	1023.	2553.
#2	2539.	2607.	2527.	2570.	1027.	2564.
#3	2521.	2600.	2511.	2565.	1025.	2556.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1024.	5127.	10320.	9910.
Stddev	2.	9.	74.	106.
%RSD	.2156	.1676	.7152	1.072
#1	1022.	5122.	10310.	9788.
#2	1024.	5137.	10400.	9983.
#3	1026.	5123.	10250.	9958.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2601.0	29039.	4790.9
Stddev	3.6	68.	31.6
%RSD	.13835	.23452	.65947
#1	2601.1	28999.	4757.1
#2	2597.4	29000.	4795.9
#3	2604.6	29118.	4819.7

Sample Name: CAL3 Acquired: 3/29/2016 15:27:56 Type: Cal
Method: sw03182016(v13) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.9081	.0421	.0771	5.306	.7449	.6754
Stddev	.0014	.0005	.0005	.003	.0009	.0016
%RSD	.1523	1.093	.5878	.0531	.1207	.2352

#1	.9067	.0419	.0776	5.306	.7450	.6768
#2	.9080	.0419	.0770	5.309	.7439	.6757
#3	.9095	.0427	.0768	5.303	.7457	.6737

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.8771	.6271	.1984	1.124	.1875	.7184
Stddev	.0003	.0009	.0002	.003	.0000	.0012
%RSD	.0326	.1359	.1102	.2540	.0203	.1649

#1	.8773	.6277	.1985	1.126	.1875	.7197
#2	.8768	.6261	.1981	1.125	.1874	.7174
#3	.8771	.6275	.1986	1.121	.1874	.7180

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.5744	1.257	6.360	.4254	.3947	.0320
Stddev	.0014	.002	.006	.0003	.0003	.0003
%RSD	.2390	.1917	.0995	.0610	.0798	.8305

#1	.5760	1.259	6.363	.4257	.3945	.0317
#2	.5733	1.259	6.365	.4254	.3951	.0322
#3	.5739	1.254	6.353	.4252	.3946	.0320

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0357	.0658	.1264	.4667	.1062	.4873
Stddev	.0001	.0003	.0004	.0008	.0002	.0005
%RSD	.3601	.4195	.3054	.1679	.1663	.0998

#1	.0356	.0655	.1264	.4676	.1063	.4867
#2	.0358	.0660	.1267	.4662	.1063	.4874
#3	.0356	.0660	.1259	.4663	.1060	.4877

Sample Name: CAL3 Acquired: 3/29/2016 15:27:56 Type: Cal
Method: sw03182016(v13) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0419	8.126	2.025	.0515
Stddev	.0001	.007	.003	.0005
%RSD	.2580	.0900	.1282	1.032

#1	.0419	8.133	2.026	.0515
#2	.0418	8.126	2.022	.0510
#3	.0420	8.118	2.027	.0521

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2773.8	29851.	4919.6
Stddev	7.4	103.	20.2
%RSD	.26533	.34576	.41079

#1	2765.3	29736.	4913.7
#2	2777.1	29884.	4903.0
#3	2778.9	29934.	4942.1

Sample Name: icvl 4079378 Acquired: 3/29/2016 15:49:10 Type: QC
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	225.4	16.10	10.17	221.1	2.007	5260.
Stddev	2.1	1.46	.30	.8	.050	27.
%RSD	.9223	9.046	2.912	.3585	2.493	.5048

#1	227.5	16.87	10.34	221.2	1.959	5242.
#2	223.4	14.42	10.34	221.9	2.059	5291.
#3	225.2	17.01	9.830	220.3	2.003	5249.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.386	55.85	11.23	25.64	172.4	5092.
Stddev	.061	.10	.49	.14	6.2	13.
%RSD	1.394	.1879	4.346	.5493	3.625	.2509

#1	4.357	55.78	11.20	25.80	166.6	5082.
#2	4.457	55.97	11.73	25.59	171.4	5106.
#3	4.345	55.80	10.75	25.53	179.0	5087.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5247.	16.61	5207.	45.57	10.95	21.23
Stddev	23.	.04	14.	.47	.18	1.16
%RSD	.4469	.2239	.2633	1.042	1.653	5.473

#1	5235.	16.65	5202.	45.64	10.87	22.54
#2	5274.	16.59	5223.	46.01	10.82	20.83
#3	5232.	16.59	5197.	45.06	11.15	20.32

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: icvl 4079378 Acquired: 3/29/2016 15:49:10 Type: QC
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	20.14	24.48	52.59	33.18	55.47	21.08
Stddev	.58	1.38	.27	.17	.89	.19
%RSD	2.895	5.636	.5106	.5077	1.600	.8972
#1	20.67	22.89	52.77	33.37	56.43	21.27
#2	19.51	25.15	52.72	33.12	54.67	21.08
#3	20.24	25.40	52.28	33.05	55.30	20.89

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	54.25	21.14	22.62	F -11.20
Stddev	.41	.16	.14	13.83
%RSD	.7568	.7573	.6271	123.5
#1	54.63	21.08	22.45	4.728
#2	53.82	21.32	22.70	-18.12
#3	54.31	21.02	22.70	-20.20

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2778.2	30577.	4915.4
Stddev	8.6	261.	42.9
%RSD	.30883	.85436	.87320
#1	2768.4	30807.	4961.3
#2	2782.5	30293.	4876.2
#3	2783.8	30632.	4908.9

Sample Name: int-10a 4140672 Acquired: 3/29/2016 16:02:11 Type: QC
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	9.912	.7270	7.080	6.729	7.022	3.965
Stddev	21.26	2.225	.343	.051	.042	3.020
%RSD	214.5	306.1	4.845	.7519	.5986	76.18
#1	33.56	.0012	7.133	6.679	7.060	4.034
#2	3.787	3.224	6.713	6.727	7.029	6.950
#3	-7.613	-1.045	7.393	6.780	6.977	.9105

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.3152	10340.	.5911	-1.106	116.6	-20.61
Stddev	.1204	11.	.1386	.179	13.4	20.57
%RSD	38.18	.1041	23.45	16.19	11.46	99.83
#1	-.1783	10350.	.4422	-1.193	102.9	-35.55
#2	-.4042	10330.	.7164	-.9001	117.3	-29.14
#3	-.3632	10350.	.6147	-1.225	129.6	2.858

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	12.56	-1.195	19.33	1.459	-2.112	-4.735
Stddev	4.59	.0229	6.30	.240	1.348	.397
%RSD	36.57	19.15	32.60	16.46	63.84	8.383
#1	15.56	-.1191	25.87	1.727	-1.648	-4.513
#2	14.86	-.0969	18.81	1.264	-3.630	-4.499
#3	7.273	-.1426	13.30	1.387	-1.056	-5.194

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: int-10a 4140672 Acquired: 3/29/2016 16:02:11 Type: QC
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-6.690	-1.955	F 9755.	-2507	-6.452	-3.263
Stddev	1.949	.665	27.	.0949	.449	.126
%RSD	29.13	34.00	.2782	37.85	6.965	3.858

#1	-7.566	-2.719	9749.	-.2165	-6.266	-3.160
#2	-8.046	-1.515	9785.	-.3580	-6.125	-3.403
#3	-4.457	-1.630	9731.	-.1777	-6.964	-3.227

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			6000.			
Low Limit			4000.			

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	10030.	9468.	-1.198	9146.
Stddev	27.	165.	.204	136.
%RSD	.2658	1.742	17.05	1.489

#1	10030.	9479.	-.9623	8990.
#2	10010.	9298.	-1.317	9238.
#3	10060.	9627.	-1.316	9212.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2778.8	30632.	4952.0
Stddev	9.1	177.	73.1
%RSD	.32644	.57666	1.4765

#1	2769.1	30730.	4871.2
#2	2780.2	30428.	5013.6
#3	2787.1	30739.	4971.3

Sample Name: MB 460-358954/1-A@2 Acquired: 3/29/2016 16:11:09 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.571	-.4894	.0779	-.0837	-.0850	3.223
Stddev	4.039	.8694	.4511	.0422	.0434	2.832
%RSD	157.1	177.6	579.4	50.44	51.11	87.86
#1	-5.438	.5144	-.0050	-.0969	-.0532	.4438
#2	-4.323	-.9760	.5646	-.0365	-.0673	6.104
#3	2.048	-1.007	-.3261	-.1177	-.1345	3.121

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0464	.2872	.3401	.1022	1.368	-26.76
Stddev	.0475	.2499	.1294	.2768	3.033	16.22
%RSD	102.4	87.00	38.06	270.8	221.7	60.63
#1	.0994	.5601	.2001	.1262	-1.286	-39.17
#2	.0319	.2323	.4553	-.1858	4.675	-8.401
#3	.0078	.0694	.3649	.3662	.7158	-32.71

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.987	.1576	12.03	.6083	-.9269	1.934
Stddev	3.919	.0417	5.00	.5612	.5125	1.988
%RSD	78.57	26.48	41.57	92.27	55.29	102.8
#1	2.780	.2058	13.05	1.220	-.7322	2.319
#2	2.670	.1336	16.45	.4872	-.5403	3.702
#3	9.512	.1335	6.600	.1175	-1.508	-.2177

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: MB 460-358954/1-A@2 Acquired: 3/29/2016 16:11:09 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.729	-.3077	-.0856	.5507	.1465	1.709
Stddev	2.976	.6060	.1646	.0285	.2021	1.317
%RSD	172.1	197.0	192.2	5.177	138.0	77.05
#1	1.505	-.8713	-.1731	.5754	.2823	3.109
#2	-2.341	.3332	.1042	.5573	.2429	1.525
#3	-4.351	-.3849	-.1881	.5195	-.0858	.4944

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.7587	.1128	.1753	8.670
Stddev	.4222	.1010	.1965	6.407
%RSD	55.64	89.54	112.1	73.90
#1	1.246	.1825	.3605	6.556
#2	.5192	-.0030	-.0309	3.587
#3	.5108	.1589	.1962	15.87

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2856.9	31010.	4973.6
Stddev	.9	35.	17.5
%RSD	.02975	.11366	.35202
#1	2857.0	31046.	4964.7
#2	2857.7	31008.	4962.3
#3	2856.0	30976.	4993.7

Sample Name: 460-110898-F-11-B DU Acquired: 3/29/2016 16:19:33 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7004.	1.948	-1.761	17.33	.4505	306.7
Stddev	20.	.337	.4557	.12	.0424	8.0
%RSD	.2824	17.29	258.8	.6997	9.405	2.609
#1	7010.	1.936	.1386	17.22	.4956	297.6
#2	6982.	2.290	-.6987	17.31	.4442	310.1
#3	7020.	1.617	.0317	17.46	.4116	312.6

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.1675	3.207	22.17	7.691	11070.	1701.
Stddev	.0563	.225	.40	.183	13.	27.
%RSD	33.63	7.014	1.783	2.377	.1182	1.564
#1	-.2234	2.974	22.37	7.502	11080.	1730.
#2	-.1684	3.224	22.41	7.704	11060.	1678.
#3	-.1107	3.423	21.71	7.867	11080.	1695.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	963.6	32.31	42.71	13.53	7.278	1.325
Stddev	2.9	.08	7.66	.28	.671	1.642
%RSD	.3055	.2391	17.95	2.095	9.223	123.9
#1	962.8	32.37	46.61	13.60	6.887	-.1784
#2	966.8	32.32	33.87	13.21	8.053	3.077
#3	961.1	32.22	47.63	13.77	6.895	1.077

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110898-F-11-B DU Acquired: 3/29/2016 16:19:33 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.7026	-2.434	16.02	28.04	16.70	.4617
Stddev	.7484	1.092	.13	.08	.53	.2182
%RSD	106.5	44.87	.7944	.2977	3.159	47.27
#1	.7598	-3.695	16.16	27.99	16.13	.4807
#2	1.421	-1.789	15.91	28.00	17.18	.6698
#3	-.0728	-1.819	15.99	28.14	16.78	.2345

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	6.317	4.130	342.6	592.5
Stddev	.025	.089	.7	5.1
%RSD	.3989	2.159	.1914	.8582
#1	6.291	4.233	341.9	587.2
#2	6.318	4.089	342.7	597.3
#3	6.341	4.069	343.2	592.9

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2835.9	31029.	4951.3
Stddev	17.2	461.	36.5
%RSD	.60693	1.4849	.73659
#1	2821.6	30666.	4912.3
#2	2831.2	30873.	4956.9
#3	2855.0	31547.	4984.6

Sample Name: sd 460-110898-F-11-A Acquired: 3/29/2016 16:28:10 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1396.	1.921	.3053	3.259	-.0605	70.12
Stddev	20.	1.337	.2768	.092	.0300	3.02
%RSD	1.409	69.61	90.69	2.839	49.54	4.308

#1	1384.	2.763	.3957	3.365	-.0626	69.45
#2	1387.	2.621	-.0055	3.217	-.0295	73.43
#3	1419.	.3793	.5255	3.195	-.0893	67.50

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0864	.6602	4.261	1.417	2149.	351.3
Stddev	.1115	.2545	.301	.263	21.	8.8
%RSD	129.1	38.55	7.061	18.55	.9996	2.500

#1	.2144	.9420	4.380	1.718	2173.	355.9
#2	.0103	.5912	3.919	1.298	2133.	356.7
#3	.0344	.4473	4.484	1.234	2141.	341.1

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	186.4	6.290	13.59	2.890	1.144	.9471
Stddev	1.3	.051	10.01	.269	.839	1.850
%RSD	.6995	.8083	73.61	9.300	73.30	195.3

#1	187.7	6.344	25.13	2.695	1.657	1.199
#2	186.4	6.244	8.425	2.779	.1764	-1.016
#3	185.1	6.282	7.229	3.197	1.600	2.658

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: sd 460-110898-F-11-A Acquired: 3/29/2016 16:28:10 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.367	-.0796	2.774	5.590	3.234	-.2261
Stddev	3.146	.3036	.169	.226	.508	.0869
%RSD	230.2	381.6	6.080	4.046	15.71	38.44
#1	-4.697	-.3856	2.943	5.850	2.776	-.1938
#2	1.555	-.0745	2.774	5.439	3.781	-.1599
#3	-.9585	.2215	2.606	5.481	3.146	-.3245

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1.634	.7494	66.45	98.90
Stddev	.629	.0918	.06	29.35
%RSD	38.47	12.25	.0847	29.68
#1	1.949	.6439	66.51	65.78
#2	2.043	.8113	66.41	109.2
#3	.9102	.7929	66.43	121.7

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2850.2	31376.	4974.8
Stddev	1.8	19.	46.4
%RSD	.06386	.05940	.93310
#1	2850.9	31387.	4978.9
#2	2851.6	31386.	5019.1
#3	2848.2	31354.	4926.5

Sample Name: CAL4 Acquired: 3/29/2016 15:31:59 Type: Cal
Method: sw03182016(v13) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4.517	.2174	.3894	26.01	3.675	3.353
Stddev	.010	.0002	.0017	.06	.002	.011
%RSD	.2164	.0711	.4334	.2210	.0540	.3323

#1	4.528	.2175	.3912	26.05	3.676	3.361
#2	4.508	.2174	.3891	26.03	3.672	3.358
#3	4.516	.2172	.3878	25.94	3.676	3.341

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4.270	3.051	.9582	5.704	.8945	3.702
Stddev	.006	.003	.0038	.003	.0051	.003
%RSD	.1315	.0827	.3949	.0593	.5698	.0666

#1	4.276	3.054	.9618	5.703	.8987	3.699
#2	4.270	3.050	.9585	5.708	.8960	3.704
#3	4.265	3.049	.9543	5.702	.8888	3.702

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2.869	6.089	32.11	2.054	1.898	.1629
Stddev	.013	.014	.05	.005	.006	.0002
%RSD	.4477	.2366	.1578	.2311	.3048	.1037

#1	2.880	6.094	32.16	2.057	1.903	.1628
#2	2.871	6.101	32.05	2.056	1.899	.1628
#3	2.855	6.073	32.10	2.048	1.891	.1631

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.1795	.3124	.6231	2.250	.5294	2.418
Stddev	.0006	.0005	.0017	.012	.0011	.001
%RSD	.3209	.1677	.2716	.5093	.2074	.0501

#1	.1789	.3125	.6234	2.261	.5294	2.417
#2	.1800	.3129	.6247	2.249	.5305	2.420
#3	.1797	.3119	.6213	2.238	.5283	2.418

Sample Name: CAL4 Acquired: 3/29/2016 15:31:59 Type: Cal
Method: sw03182016(v13) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.2033	40.75	9.912	.2675
Stddev	.0003	.01	.085	.0018
%RSD	.1582	.0218	.8520	.6913

#1	.2034	40.75	9.815	.2677
#2	.2029	40.75	9.959	.2692
#3	.2036	40.76	9.963	.2656

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2637.8	29031.	4961.7
Stddev	11.6	201.	62.0
%RSD	.44053	.69280	1.2488

#1	2624.5	28817.	4890.5
#2	2642.8	29058.	4990.5
#3	2646.1	29217.	5004.0

Sample Name: CCB Acquired: 3/29/2016 16:40:40 Type: QC
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	18.93	-.6520	.6350	.2835	-.0649	10.68
Stddev	16.69	2.085	.2622	.1153	.1203	.30
%RSD	88.19	319.7	41.29	40.67	185.4	2.771

#1	32.73	1.326	.3761	.4097	.0692	10.95
#2	23.67	-2.829	.9004	.1837	-.1004	10.36
#3	.3765	-.4526	.6283	.2570	-.1635	10.73

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0505	.0709	.3539	.4842	.3527	-1.839
Stddev	.0641	.0336	.3197	.2094	11.28	33.89
%RSD	127.0	47.44	90.35	43.25	3200.	1843.

#1	.1239	.0342	.0649	.6469	6.045	22.20
#2	.0219	.0783	.6973	.5578	7.657	-40.61
#3	.0056	.1002	.2994	.2479	-12.64	12.89

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.738	.1466	26.23	.0209	.1465	1.839
Stddev	1.652	.0250	6.48	.3907	.4183	2.048
%RSD	34.86	17.03	24.69	1869.	285.5	111.4

#1	3.641	.1748	31.57	.4697	.0068	-.1877
#2	3.936	.1273	28.10	-.1640	.6168	1.795
#3	6.638	.1377	19.03	-.2430	-.1840	3.908

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 3/29/2016 16:40:40 Type: QC
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.8647	.0051	-.1439	.2126	1.061	.4714
Stddev	3.746	2.089	.6469	.1775	.596	.3366
%RSD	433.3	41200.	449.7	83.50	56.18	71.42
#1	3.444	-.2310	.3844	.1241	1.501	.8573
#2	-3.433	-1.956	-.8654	.4170	1.300	.3187
#3	2.583	2.202	.0494	.0967	.3826	.2381

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.2164	.1393	.2597	8.313
Stddev	.9100	.1509	.2491	16.16
%RSD	420.5	108.3	95.91	194.4
#1	-.1876	.2161	.4272	15.68
#2	-.4216	.2365	.3785	19.47
#3	1.258	-.0345	-.0265	-10.22

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2778.9	30772.	4860.2
Stddev	14.0	153.	26.6
%RSD	.50275	.49839	.54762
#1	2790.3	30850.	4889.8
#2	2783.2	30871.	4852.9
#3	2763.3	30596.	4838.1

Sample Name: icb Acquired: 3/29/2016 15:44:48 Type: QC
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	9.647	1.921	.3623	2.215	-.1380	10.34
Stddev	7.332	2.305	.4262	3.322	.0982	3.71
%RSD	76.00	120.0	117.6	149.9	71.16	35.89

#1	15.91	-.2778	.7174	.3202	-.0267	13.56
#2	11.45	4.320	.4798	6.051	-.2125	6.282
#3	1.581	1.721	-.1102	.2753	-.1746	11.19

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.3504	.6224	.0810	.5364	-1.916	20.18
Stddev	.4145	.8326	.3628	.0906	1.918	16.70
%RSD	118.3	133.8	447.6	16.89	100.1	82.74

#1	.1076	.1012	.3751	.6337	-1.396	39.32
#2	.8290	1.583	-.3244	.4543	-4.040	12.57
#3	.1146	.1835	.1925	.5213	-.3122	8.643

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	8.449	.1878	27.68	.4494	1.441	1.456
Stddev	1.327	.0991	2.47	1.259	1.687	1.019
%RSD	15.70	52.77	8.921	280.1	117.1	70.00

#1	9.979	.2859	25.83	-.2135	-.0407	.9515
#2	7.758	.1898	26.72	1.901	3.277	.7877
#3	7.610	.0877	30.48	-.3394	1.086	2.630

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: icb Acquired: 3/29/2016 15:44:48 Type: QC
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.7508	.7779	.1471	.9072	2.650	1.360
Stddev	2.767	.7063	.1514	1.051	.456	.859
%RSD	368.6	90.80	102.9	115.8	17.22	63.16
#1	-3.933	.8450	.0802	.1320	3.167	1.172
#2	1.088	1.448	.0407	2.103	2.481	2.297
#3	.5931	.0404	.3204	.4867	2.303	.6104

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1.032	.2011	.4227	-4.344
Stddev	.439	.0348	.1377	14.40
%RSD	42.51	17.32	32.59	331.4
#1	.6365	.2288	.5494	-12.44
#2	1.504	.1620	.4425	-12.87
#3	.9565	.2124	.2761	12.28

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2801.6	30863.	4903.8
Stddev	3.2	55.	12.8
%RSD	.11247	.17927	.26151
#1	2799.8	30806.	4902.2
#2	2805.3	30916.	4891.9
#3	2799.8	30867.	4917.4

Sample Name: 460-110898-E-13-A@4 Acquired: 3/29/2016 16:57:41 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	9524.	1.220	.1651	12.51	.1143	335.9
Stddev	6.	.595	.0945	.04	.0677	5.2
%RSD	.0594	48.75	57.21	.2877	59.29	1.553
#1	9517.	.9798	.0947	12.47	.0361	330.8
#2	9528.	1.897	.2725	12.54	.1507	341.2
#3	9526.	.7829	.1283	12.51	.1560	335.6

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0028	.5213	11.96	2.535	947.7	329.8
Stddev	.0564	.2644	.55	.164	8.6	10.9
%RSD	2027.	50.72	4.589	6.452	.9125	3.292
#1	-.0532	.5602	11.32	2.450	938.0	322.0
#2	-.0133	.7640	12.27	2.431	950.8	325.3
#3	.0581	.2396	12.28	2.723	954.4	342.2

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	70.62	8.356	46.29	4.257	6.121	.9259
Stddev	1.06	.041	5.87	.495	.659	.7662
%RSD	1.502	.4854	12.68	11.64	10.76	82.76
#1	70.86	8.310	40.08	4.611	5.499	.5984
#2	69.45	8.373	51.75	4.469	6.812	.3779
#3	71.53	8.386	47.03	3.691	6.053	1.801

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Sample Name: 460-110898-E-13-A@4 Acquired: 3/29/2016 16:57:41 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-4.779	-2.447	5.907	9.461	2.464	.4087
Stddev	.8487	.053	.128	.163	.418	.0828
%RSD	177.6	2.187	2.170	1.722	16.95	20.25
#1	-1.054	-2.444	5.935	9.355	2.946	.3144
#2	.4968	-2.395	6.018	9.378	2.231	.4692
#3	-.8768	-2.501	5.767	9.648	2.214	.4426

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	6.551	4.337	210.2	962.5
Stddev	.667	.118	.1	16.5
%RSD	10.18	2.713	.0468	1.719
#1	6.282	4.222	210.2	944.7
#2	6.060	4.457	210.1	965.4
#3	7.310	4.333	210.3	977.4

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2795.3	30868.	4864.2
Stddev	14.2	70.	25.8
%RSD	.50663	.22566	.52974
#1	2781.5	30874.	4861.9
#2	2794.6	30934.	4839.7
#3	2809.8	30795.	4891.1

Sample Name: 460-110898-F-15-A@4 Acquired: 3/29/2016 17:06:22 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2700.	-.5414	.0140	9.118	.0505	116.1
Stddev	6.	1.897	.0788	.100	.0522	5.1
%RSD	.2260	350.3	563.4	1.096	103.4	4.405
#1	2696.	-2.722	-.0721	9.012	.0867	111.5
#2	2707.	.3732	.0826	9.131	-.0093	121.6
#3	2697.	.7246	.0314	9.210	.0740	115.2

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0427	.3309	8.045	1.126	680.1	126.5
Stddev	.0846	.1997	.187	.154	9.7	13.5
%RSD	198.1	60.36	2.326	13.63	1.433	10.64
#1	-.1226	.1120	7.865	1.300	680.3	141.4
#2	-.0515	.3774	8.239	1.009	689.8	115.2
#3	.0459	.5032	8.029	1.069	670.3	122.9

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	22.62	8.698	27.97	1.096	6.552	1.805
Stddev	1.27	.066	1.09	.190	.705	.534
%RSD	5.593	.7558	3.900	17.29	10.75	29.56
#1	23.97	8.623	27.53	1.119	5.885	2.056
#2	21.46	8.727	29.21	.8957	7.289	2.167
#3	22.44	8.744	27.17	1.273	6.483	1.192

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110898-F-15-A@4 Acquired: 3/29/2016 17:06:22 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.3983	-2.444	3.948	2.464	1.302	-.0470
Stddev	1.579	1.461	.507	.007	.342	.1894
%RSD	396.4	59.79	12.83	.3051	26.23	402.9
#1	1.476	-2.300	4.335	2.458	1.147	.0837
#2	1.133	-1.060	4.135	2.463	1.693	-.2643
#3	-1.414	-3.972	3.375	2.473	1.065	.0395

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	7.211	2.312	221.6	742.4
Stddev	.358	.084	.9	14.1
%RSD	4.971	3.630	.4119	1.906
#1	7.608	2.407	222.6	758.0
#2	6.911	2.284	220.8	738.7
#3	7.113	2.246	221.5	730.4

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2786.6	30728.	4885.8
Stddev	18.9	201.	30.6
%RSD	.67752	.65536	.62648
#1	2767.4	30525.	4865.1
#2	2787.3	30730.	4871.4
#3	2805.1	30928.	4921.0

Sample Name: 460-110898-F-17-A@4 Acquired: 3/29/2016 17:15:04 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	42220.	8.426	.5248	96.71	.6831	2167.
Stddev	159.	.980	.4768	.46	.0383	6.
%RSD	.3758	11.62	90.86	.4778	5.602	.2824
#1	42060.	7.679	1.075	96.19	.6401	2160.
#2	42220.	8.065	.2667	96.85	.6959	2171.
#3	42380.	9.535	.2326	97.07	.7134	2170.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.1802	4.686	45.58	19.69	40010.	1140.
Stddev	.1151	.198	.30	.06	338.	23.
%RSD	63.85	4.225	.6647	.2938	.8457	2.024
#1	-.0557	4.592	45.24	19.62	39690.	1159.
#2	-.2826	4.552	45.79	19.72	39980.	1114.
#3	-.2024	4.914	45.73	19.72	40360.	1146.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2976.	174.5	170.8	20.74	25.71	2.581
Stddev	19.	.4	4.9	.06	.99	.356
%RSD	.6409	.2401	2.870	.2918	3.870	13.78
#1	2962.	174.6	174.2	20.68	24.63	2.729
#2	2998.	174.9	173.0	20.75	26.59	2.176
#3	2968.	174.1	165.2	20.80	25.90	2.839

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110898-F-17-A@4 Acquired: 3/29/2016 17:15:04 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-0.0972	-1.186	73.87	274.9	4.773	2.197
Stddev	2.512	1.011	.11	1.6	.168	.303
%RSD	2585.	85.20	.1501	.5827	3.514	13.78
#1	.4029	-2.281	73.77	273.2	4.916	2.117
#2	2.127	-.9870	73.86	275.1	4.588	1.942
#3	-2.822	-.2897	73.99	276.4	4.816	2.532

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	6.872	19.81	627.5	963.1
Stddev	.507	.11	5.6	5.9
%RSD	7.385	.5523	.8871	.6107
#1	6.737	19.82	622.1	968.6
#2	7.434	19.69	627.1	963.8
#3	6.446	19.91	633.2	956.9

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2836.3	30927.	5047.4
Stddev	5.9	116.	31.7
%RSD	.20768	.37430	.62726
#1	2840.6	31038.	5078.7
#2	2838.6	30807.	5015.4
#3	2829.6	30937.	5048.1

Sample Name: icsa 4079387 Acquired: 3/29/2016 15:53:28 Type: QC
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	507000.	-.7240	-.3400	.3934	-.0333	494300.
Stddev	1384.	3.007	.4463	.2822	.0870	1348.
%RSD	.2730	415.4	131.3	71.74	261.4	.2727

#1	505500.	-4.192	-.2847	.4190	.0671	495600.
#2	507200.	.8559	-.8113	.6618	-.0875	494500.
#3	508200.	1.164	.0761	.0992	-.0795	492900.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.2170	-2.867	-2.000	-4.623	196400.	-65.20
Stddev	.1680	.314	.210	.158	961.	16.47
%RSD	77.42	10.96	10.52	3.419	.4891	25.26

#1	.1315	-2.710	-2.159	-4.458	195500.	-49.20
#2	.4106	-2.662	-1.761	-4.773	196400.	-82.10
#3	.1090	-3.229	-2.079	-4.638	197400.	-64.31

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	506100.	-4.722	-36.09	-3.273	2.752	-.1243
Stddev	1913.	.115	8.03	.710	1.905	2.512
%RSD	.3780	2.425	22.23	21.69	69.22	2021.

#1	504700.	-4.604	-39.80	-3.950	.6567	-1.699
#2	505300.	-4.833	-41.60	-3.333	4.380	-1.447
#3	508200.	-4.728	-26.89	-2.534	3.221	2.773

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: icsa 4079387 Acquired: 3/29/2016 15:53:28 Type: QC
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.5478	-1.871	3.373	-2.376	-9.026	-.7513
Stddev	4.607	.648	.522	.360	.704	.2802
%RSD	841.0	34.62	15.48	15.16	7.804	37.29
#1	-3.210	-1.190	3.184	-2.194	-8.497	-.8399
#2	-.8336	-2.479	2.972	-2.790	-8.754	-.4376
#3	5.687	-1.944	3.964	-2.143	-9.825	-.9764

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	3.983	-1.675	3.266	14.76
Stddev	.965	.152	.179	7.34
%RSD	24.22	9.096	5.473	49.71
#1	5.034	-1.592	3.472	13.08
#2	3.137	-1.851	3.160	22.79
#3	3.779	-1.583	3.166	8.407

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2512.2	27135.	4714.5
Stddev	8.3	18.	40.8
%RSD	.32937	.06593	.86649
#1	2506.8	27152.	4756.3
#2	2508.1	27116.	4712.3
#3	2521.7	27136.	4674.7

Sample Name: CCV Acquired: 3/29/2016 17:32:17 Type: QC
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	129500.	2524.	1285.	10390.	1037.	129400.
Stddev	76.	6.	4.	16.	3.	349.
%RSD	.0585	.2359	.2811	.1577	.2595	.2696

#1	129500.	2517.	1287.	10410.	1038.	129500.
#2	129400.	2528.	1281.	10380.	1034.	129000.
#3	129500.	2527.	1287.	10380.	1040.	129600.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1293.	2578.	5219.	12780.	104800.	51120.
Stddev	2.	1.	15.	53.	296.	101.
%RSD	.1651	.0349	.2850	.4147	.2823	.1981

#1	1292.	2577.	5217.	12810.	104900.	51100.
#2	1291.	2578.	5206.	12720.	104500.	51040.
#3	1295.	2579.	5236.	12810.	105000.	51240.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	128800.	5205.	128700.	2595.	7807.	1011.
Stddev	621.	17.	85.	6.	17.	2.
%RSD	.4816	.3175	.0657	.2206	.2204	.1966

#1	129100.	5213.	128600.	2599.	7826.	1013.
#2	128100.	5186.	128700.	2588.	7792.	1009.
#3	129300.	5217.	128700.	2596.	7804.	1011.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 3/29/2016 17:32:17 Type: QC
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2540.	2627.	2572.	2612.	1026.	2568.
Stddev	8.	21.	7.	5.	4.	1.
%RSD	.3109	.7843	.2749	.1937	.4285	.0545

#1	2542.	2627.	2575.	2615.	1031.	2568.
#2	2546.	2647.	2564.	2606.	1025.	2569.
#3	2531.	2606.	2577.	2613.	1023.	2567.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1031.	5131.	10460.	10120.
Stddev	1.	10.	32.	102.
%RSD	.1455	.1885	.3054	1.008

#1	1029.	5123.	10500.	10010.
#2	1032.	5127.	10440.	10130.
#3	1032.	5142.	10440.	10220.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2604.1	28839.	4816.3
Stddev	2.4	200.	32.4
%RSD	.09076	.69319	.67362

#1	2606.6	29034.	4779.2
#2	2603.8	28848.	4830.3
#3	2601.9	28634.	4839.4

Sample Name: CCVL Acquired: 3/29/2016 17:40:48 Type: QC
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	226.7	14.52	10.53	219.0	2.056	5333.
Stddev	1.1	1.75	.38	.5	.021	14.
%RSD	.4673	12.02	3.594	.2205	1.031	.2598

#1	225.7	15.29	10.94	219.5	2.079	5323.
#2	226.5	12.53	10.47	218.5	2.037	5326.
#3	227.8	15.76	10.19	219.1	2.052	5348.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.382	55.77	11.09	26.41	180.9	5115.
Stddev	.074	.16	.35	.33	4.6	34.
%RSD	1.701	.2823	3.189	1.236	2.542	.6572

#1	4.333	55.74	11.21	26.33	178.7	5154.
#2	4.345	55.94	10.69	26.77	186.2	5092.
#3	4.467	55.63	11.37	26.13	177.8	5101.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5255.	16.90	5163.	44.99	11.63	20.51
Stddev	6.	.03	11.	.40	.20	2.32
%RSD	.1210	.1715	.2226	.8965	1.760	11.33

#1	5249.	16.89	5176.	45.32	11.41	19.27
#2	5261.	16.87	5161.	44.54	11.81	23.19
#3	5255.	16.93	5153.	45.10	11.67	19.07

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 3/29/2016 17:40:48 Type: QC
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	17.37	23.56	53.96	32.73	53.20	20.78
Stddev	3.60	1.60	.70	.11	.29	.02
%RSD	20.72	6.799	1.298	.3363	.5365	.0906
#1	15.53	22.85	53.17	32.86	53.52	20.80
#2	21.52	22.44	54.19	32.70	52.99	20.77
#3	15.07	25.40	54.51	32.65	53.09	20.78

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	54.35	21.48	22.20	F 18.72
Stddev	.57	.09	.17	11.75
%RSD	1.045	.4354	.7484	62.77
#1	53.70	21.58	22.24	29.93
#2	54.57	21.49	22.01	19.74
#3	54.77	21.39	22.33	6.492

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2833.7	30719.	4942.7
Stddev	2.9	41.	11.2
%RSD	.10285	.13286	.22570
#1	2831.3	30674.	4929.9
#2	2837.0	30731.	4949.2
#3	2833.0	30753.	4949.2

Sample Name: 460-110898-E-21-A@4 Acquired: 3/29/2016 17:45:07 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5453.	.8417	.4618	16.46	.2191	327.5
Stddev	19.	2.004	.2433	.12	.0685	5.2
%RSD	.3410	238.0	52.67	.7433	31.26	1.596

#1	5469.	.2851	.3289	16.44	.1408	321.7
#2	5458.	-.8248	.7426	16.35	.2678	331.8
#3	5433.	3.065	.3140	16.59	.2486	329.1

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.1548	2.126	18.62	6.783	8212.	914.6
Stddev	.0822	.095	.07	.033	22.	46.5
%RSD	53.07	4.443	.3644	.4821	.2705	5.083

#1	.1535	2.228	18.56	6.776	8189.	924.1
#2	.2376	2.042	18.60	6.754	8212.	955.6
#3	.0733	2.108	18.69	6.818	8234.	864.1

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	606.4	25.21	32.76	10.42	7.495	-.4301
Stddev	1.7	.12	2.28	.23	.403	.8084
%RSD	.2870	.4623	6.953	2.217	5.370	187.9

#1	606.9	25.08	31.46	10.56	7.688	-1.233
#2	607.9	25.25	35.39	10.55	7.033	.3840
#3	604.5	25.30	31.43	10.16	7.765	-.4418

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110898-E-21-A@4 Acquired: 3/29/2016 17:45:07 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.8748	-.3146	13.56	86.34	8.327	.1270
Stddev	1.189	.5299	.17	.39	.129	.0691
%RSD	136.0	168.4	1.217	.4523	1.549	54.40
#1	1.543	.2371	13.66	85.98	8.181	.2063
#2	1.580	-.8196	13.37	86.27	8.425	.0953
#3	-.4985	-.3614	13.64	86.75	8.374	.0795

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	6.931	6.634	309.4	713.9
Stddev	.423	.164	.8	22.9
%RSD	6.103	2.478	.2612	3.207
#1	7.316	6.758	308.4	688.4
#2	7.001	6.448	309.8	732.7
#3	6.478	6.697	309.9	720.6

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2840.9	31056.	4980.5
Stddev	9.1	211.	60.1
%RSD	.31956	.68014	1.2076
#1	2830.7	31013.	4929.4
#2	2843.9	30869.	4965.3
#3	2848.1	31285.	5046.8

Sample Name: icsab 4140570 Acquired: 3/29/2016 15:57:51 Type: QC
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	565300.	102.9	116.8	110.8	108.1	550200.
Stddev	884.	2.0	.8	.1	.1	2567.
%RSD	.1564	1.947	.6796	.1226	.1353	.4666

#1	565500.	102.7	117.6	110.8	107.9	552000.
#2	566000.	101.1	116.0	110.7	108.1	547300.
#3	564300.	105.1	116.8	110.9	108.2	551400.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	103.3	100.6	108.8	112.8	218000.	11210.
Stddev	.4	.6	1.3	.0	675.	7.
%RSD	.3837	.5926	1.217	.0094	.3099	.0589

#1	103.1	100.8	110.0	112.8	218200.	11210.
#2	103.7	101.1	107.4	112.8	217200.	11220.
#3	103.0	99.94	109.0	112.8	218500.	11200.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	557800.	105.2	11460.	99.78	108.3	107.0
Stddev	2662.	.6	13.	.15	2.3	2.2
%RSD	.4772	.5351	.1147	.1541	2.164	2.071

#1	560000.	105.6	11450.	99.94	108.9	104.6
#2	558500.	105.4	11470.	99.63	105.7	107.5
#3	554800.	104.5	11450.	99.76	110.3	108.9

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: icsab 4140570 Acquired: 3/29/2016 15:57:51 Type: QC
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	107.7	101.6	113.1	101.0	98.81	104.5
Stddev	1.9	3.7	.7	.5	1.47	.5
%RSD	1.770	3.628	.6030	.4962	1.493	.4861
#1	107.3	105.3	113.1	100.6	100.5	104.9
#2	109.8	101.6	112.5	100.8	98.11	104.7
#3	106.1	97.91	113.8	101.6	97.82	103.9

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	108.2	107.2	116.6	95.40
Stddev	1.8	.2	.3	13.26
%RSD	1.623	.2058	.2395	13.90
#1	110.2	107.3	116.9	92.09
#2	106.9	107.3	116.3	110.0
#3	107.5	106.9	116.7	84.11

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2493.8	27010.	4744.0
Stddev	7.7	224.	47.1
%RSD	.30688	.82940	.99267
#1	2488.0	26756.	4691.5
#2	2502.4	27178.	4782.5
#3	2490.8	27097.	4758.1

Sample Name: 460-110976-E-2-A@4 Acquired: 3/29/2016 17:57:53 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	32160.	28.76	1.613	79.09	3.144	2123.
Stddev	51.	.75	.253	.13	.069	4.
%RSD	.1592	2.621	15.70	.1632	2.183	.1823
#1	32130.	29.47	1.420	79.12	3.078	2122.
#2	32220.	27.97	1.900	79.21	3.215	2128.
#3	32130.	28.84	1.520	78.95	3.138	2120.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.6826	17.58	127.6	95.46	138100.	1045.
Stddev	.1773	.33	.1	.30	266.	15.
%RSD	25.97	1.857	.0998	.3097	.1923	1.481
#1	-.8855	17.88	127.6	95.61	138400.	1042.
#2	-.6046	17.64	127.5	95.12	137900.	1031.
#3	-.5578	17.23	127.8	95.66	137900.	1061.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1091.	218.2	527.5	27.44	186.3	2.156
Stddev	5.	.2	5.7	.60	2.1	1.117
%RSD	.4529	.0876	1.079	2.174	1.147	51.81
#1	1091.	218.3	533.6	28.09	183.8	.8685
#2	1087.	218.2	526.5	26.92	187.3	2.865
#3	1097.	218.0	522.4	27.31	187.7	2.734

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110976-E-2-A@4 Acquired: 3/29/2016 17:57:53 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.534	-4.039	126.1	147.5	2.470	11.57
Stddev	3.590	.575	.4	1.0	.231	.30
%RSD	141.7	14.23	.3162	.6869	9.356	2.552
#1	-1.318	-3.841	125.7	148.6	2.257	11.25
#2	5.787	-3.590	126.5	146.8	2.438	11.83
#3	3.133	-4.687	126.2	146.9	2.716	11.64

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	8.719	12.60	420.7	1077.
Stddev	.726	.13	.8	41.
%RSD	8.321	1.022	.1958	3.851
#1	8.713	12.45	420.9	1030.
#2	7.997	12.63	421.3	1105.
#3	9.448	12.70	419.7	1096.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2885.2	31825.	5027.7
Stddev	13.2	241.	40.3
%RSD	.45840	.75745	.80250
#1	2873.2	31547.	4992.3
#2	2883.0	31971.	5019.2
#3	2899.4	31958.	5071.7

Sample Name: int-10b 4140674 Acquired: 3/29/2016 16:06:37 Type: QC
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-25.14	11.11	.7072	-3263	1.641	-16.05
Stddev	6.17	1.01	.4685	.1171	.058	.25
%RSD	24.54	9.103	66.24	35.89	3.514	1.558
#1	-21.05	9.956	.4202	-.4227	1.586	-16.29
#2	-32.24	11.51	.4537	-.3604	1.701	-15.79
#3	-22.13	11.85	1.248	-.1960	1.636	-16.06

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.054	-.2955	10460.	9838.	-43.97	4.213
Stddev	.068	1.501	48.	23.	3.13	16.21
%RSD	6.492	507.8	.4593	.2380	7.127	384.7
#1	-.9996	-1.318	10510.	9822.	-43.64	22.93
#2	-1.130	1.427	10430.	9828.	-41.02	-5.067
#3	-1.031	-.9954	10430.	9865.	-47.26	-5.224

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	56.20	10140.	30.25	11180.	-11.18	-4.746
Stddev	2.21	57.	2.14	46.	1.15	1.116
%RSD	3.938	.5672	7.063	.4142	10.32	23.52
#1	57.94	10190.	28.62	11230.	-12.50	-5.150
#2	56.93	10080.	32.67	11180.	-10.37	-5.604
#3	53.71	10150.	29.46	11140.	-10.67	-3.484

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: int-10b 4140674 Acquired: 3/29/2016 16:06:37 Type: QC
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-6.381	.5332	-8.151	-5.740	-95.17	5221.
Stddev	.906	2.354	.258	.226	.78	13.
%RSD	14.19	441.5	3.161	3.944	.8191	.2493
#1	-5.992	3.252	-7.853	-5.551	-94.54	5236.
#2	-5.734	-.8520	-8.308	-5.991	-94.94	5211.
#3	-7.416	-.7999	-8.291	-5.679	-96.04	5216.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-2108	.3828	10180.	-38.55
Stddev	1.383	.2256	65.	23.77
%RSD	656.2	58.92	.6395	61.67
#1	-1.153	.5377	10230.	-23.81
#2	1.377	.1240	10110.	-65.98
#3	-.8567	.4868	10190.	-25.86

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2677.2	30714.	4882.5
Stddev	15.7	134.	37.5
%RSD	.58509	.43611	.76739
#1	2664.7	30559.	4846.5
#2	2672.1	30800.	4921.2
#3	2694.8	30781.	4879.7

Sample Name: LCSSRM 460-358954/2- Acquired: 3/29/2016 16:15:31 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	35730.	470.6	198.4	1559.	333.1	32190.
Stddev	101.	2.1	.3	1.	.6	60.
%RSD	.2822	.4465	.1672	.0398	.1899	.1864

#1	35730.	468.2	198.0	1559.	333.8	32120.
#2	35630.	472.2	198.4	1558.	332.6	32210.
#3	35830.	471.3	198.7	1560.	332.9	32230.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	750.5	848.5	939.1	534.5	70870.	11730.
Stddev	.3	1.3	1.6	.6	140.	8.
%RSD	.0454	.1566	.1738	.1030	.1981	.0672

#1	750.9	850.0	937.3	534.0	70710.	11720.
#2	750.5	847.6	940.4	535.1	70930.	11740.
#3	750.2	847.8	939.7	534.4	70980.	11720.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	12360.	2134.	12370.	792.1	675.9	272.9
Stddev	23.	3.	35.	.8	.4	1.1
%RSD	.1860	.1551	.2815	.0991	.0601	.3926

#1	12340.	2131.	12390.	791.8	676.3	271.9
#2	12360.	2136.	12340.	791.5	675.5	274.0
#3	12390.	2137.	12400.	792.9	676.0	272.8

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: LCSSRM 460-358954/2- Acquired: 3/29/2016 16:15:31 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	741.1	954.2	483.9	978.6	674.0	817.4
Stddev	4.7	1.0	1.4	.8	1.3	1.3
%RSD	.6296	.1035	.2971	.0804	.1983	.1567
#1	737.0	955.1	482.2	978.7	672.5	816.8
#2	740.1	954.2	484.3	977.8	675.1	818.9
#3	746.2	953.1	485.0	979.4	674.6	816.5

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	517.5	425.3	1897.	1177.
Stddev	.5	.3	3.	34.
%RSD	.0996	.0593	.1819	2.854
#1	517.3	425.5	1893.	1196.
#2	517.2	425.1	1897.	1139.
#3	518.1	425.4	1899.	1197.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2920.2	31920.	5219.5
Stddev	1.5	94.	50.0
%RSD	.05042	.29414	.95786
#1	2920.2	31822.	5164.6
#2	2921.6	32009.	5262.4
#3	2918.7	31929.	5231.6

Sample Name: 460-110976-E-6-A@4 Acquired: 3/29/2016 18:13:57 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	37060.	15.44	.4149	133.3	1.460	1964.
Stddev	215.	1.37	.2200	.4	.033	12.
%RSD	.5792	8.871	53.03	.3079	2.249	.5977

#1	37290.	15.95	.2066	133.6	1.447	1955.
#2	37020.	16.49	.6450	133.5	1.497	1961.
#3	36870.	13.89	.3931	132.9	1.435	1977.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.4047	8.232	69.11	35.04	55800.	1527.
Stddev	.0844	.191	.25	.43	179.	42.
%RSD	20.85	2.314	.3595	1.229	.3212	2.729

#1	-.4336	8.183	69.08	34.77	55860.	1479.
#2	-.4709	8.443	69.37	34.82	55940.	1548.
#3	-.3097	8.072	68.88	35.54	55600.	1554.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2287.	198.8	821.0	18.48	81.76	.9882
Stddev	4.	.7	4.8	.17	1.16	1.044
%RSD	.1551	.3468	.5886	.9113	1.423	105.7

#1	2284.	198.3	816.1	18.50	82.95	2.114
#2	2291.	198.5	821.0	18.64	80.62	.0509
#3	2288.	199.6	825.8	18.30	81.71	.7999

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110976-E-6-A@4 Acquired: 3/29/2016 18:13:57 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.033	-3.395	89.95	72.14	3.138	10.26
Stddev	3.185	.686	.47	.93	.071	.30
%RSD	156.7	20.21	.5265	1.294	2.260	2.970
#1	-1.430	-3.306	90.00	73.22	3.083	10.10
#2	4.838	-4.121	89.45	71.63	3.114	10.62
#3	2.693	-2.758	90.39	71.57	3.218	10.08

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	7.145	22.73	580.3	991.3
Stddev	.663	.21	2.2	19.2
%RSD	9.283	.9124	.3709	1.939
#1	7.717	22.93	582.2	969.5
#2	6.418	22.75	580.7	998.9
#3	7.300	22.51	578.0	1006.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2904.5	31710.	5056.8
Stddev	18.4	213.	59.4
%RSD	.63489	.67134	1.1751
#1	2883.7	31493.	4988.3
#2	2910.8	31719.	5088.0
#3	2918.9	31918.	5094.2

Sample Name: 460-110898-F-11-A@4 Acquired: 3/29/2016 16:23:51 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7018.	3.269	.2816	17.35	.4583	307.6
Stddev	68.	2.111	.2033	.04	.0520	1.8
%RSD	.9620	64.55	72.21	.2233	11.35	.5780

#1	7090.	1.137	.2986	17.36	.4863	305.6
#2	7009.	5.357	.4758	17.38	.4903	309.0
#3	6956.	3.314	.0703	17.30	.3983	308.1

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.1248	3.455	21.84	7.451	11090.	1709.
Stddev	.1215	.053	.35	.193	50.	3.
%RSD	97.37	1.523	1.602	2.586	.4505	.1988

#1	-.2292	3.421	22.06	7.262	11110.	1713.
#2	.0086	3.516	22.03	7.647	11130.	1707.
#3	-.1540	3.429	21.44	7.444	11030.	1708.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	957.1	32.27	33.68	13.70	6.945	.4920
Stddev	3.1	.15	2.39	.68	.309	.7562
%RSD	.3286	.4680	7.091	4.959	4.450	153.7

#1	955.8	32.12	34.63	13.52	6.610	1.268
#2	960.7	32.28	35.44	14.45	7.219	.4505
#3	954.9	32.42	30.96	13.13	7.007	-.2426

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110898-F-11-A@4 Acquired: 3/29/2016 16:23:51 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.127	-2.819	15.81	28.06	16.26	.1446
Stddev	.673	1.368	.27	.31	.68	.0818
%RSD	59.76	48.52	1.716	1.088	4.190	56.54
#1	-1.884	-4.159	15.96	28.06	16.59	.2388
#2	-.5932	-1.425	15.96	28.37	16.71	.0922
#3	-.9040	-2.873	15.49	27.76	15.48	.1028

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	6.206	4.122	344.7	628.2
Stddev	.668	.049	1.2	27.8
%RSD	10.77	1.198	.3495	4.424
#1	6.946	4.148	345.6	656.7
#2	5.647	4.152	345.0	626.7
#3	6.026	4.065	343.3	601.2

Check ? Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2857.0	31388.	5032.8
Stddev	9.5	239.	21.0
%RSD	.33182	.75995	.41724
#1	2851.3	31205.	5013.0
#2	2851.7	31302.	5054.8
#3	2868.0	31658.	5030.6

Sample Name: 460-110994-E-12-A@4 Acquired: 3/29/2016 18:17:48 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	34490.	18.70	1.011	211.2	1.571	120800.
Stddev	89.	1.75	.420	.5	.056	406.
%RSD	.2569	9.386	41.56	.2285	3.567	.3363

#1	34450.	16.70	1.136	210.6	1.611	120500.
#2	34590.	19.98	.5423	211.4	1.595	121200.
#3	34430.	19.42	1.354	211.6	1.507	120600.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0860	16.38	111.7	225.3	62770.	3117.
Stddev	.0301	.26	.5	1.6	211.	41.
%RSD	35.02	1.605	.4189	.7194	.3365	1.319

#1	-.1020	16.68	112.0	225.5	62580.	3113.
#2	-.1048	16.19	111.2	223.6	62730.	3160.
#3	-.0513	16.26	111.9	226.8	63000.	3078.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	20090.	818.2	871.9	57.81	98.79	-1.709
Stddev	35.	2.0	.9	.74	1.92	1.149
%RSD	.1748	.2504	.0989	1.289	1.939	67.20

#1	20060.	817.6	872.4	56.97	96.87	-.3978
#2	20120.	820.4	872.4	58.40	100.7	-2.194
#3	20100.	816.5	870.9	58.06	98.80	-2.536

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110994-E-12-A@4 Acquired: 3/29/2016 18:17:48 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.6133	-1.857	93.68	259.3	33.87	4.606
Stddev	.6561	.649	.70	1.3	.35	.071
%RSD	107.0	34.98	.7451	.4867	1.031	1.553
#1	.2445	-2.450	94.12	257.9	33.62	4.534
#2	1.371	-1.163	92.88	260.4	34.27	4.609
#3	.2245	-1.957	94.05	259.5	33.71	4.677

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	9.294	555.4	1454.	1750.
Stddev	.851	2.1	4.	43.
%RSD	9.153	.3757	.2930	2.442
#1	9.494	555.2	1451.	1799.
#2	10.03	557.6	1452.	1730.
#3	8.361	553.4	1459.	1720.

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2868.9	31415.	5168.4
Stddev	5.2	162.	21.1
%RSD	.18112	.51718	.40745
#1	2863.0	31366.	5149.8
#2	2871.0	31283.	5164.2
#3	2872.7	31597.	5191.3

Sample Name: 460-110898-F-11-C MS Acquired: 3/29/2016 16:32:30 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	10580.	908.2	23.96	1045.	26.09	9982.
Stddev	642.	46.2	.78	57.	1.56	562.
%RSD	6.066	5.082	3.234	5.482	5.975	5.626

#1	9944.	861.9	23.25	987.3	24.56	9436.
#2	10560.	908.6	23.85	1045.	26.02	9953.
#3	11230.	954.2	24.79	1102.	27.68	10560.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	25.22	264.4	126.8	127.3	14040.	11340.
Stddev	1.41	14.4	7.4	6.8	779.	510.
%RSD	5.571	5.460	5.869	5.368	5.551	4.499

#1	23.78	249.6	119.6	120.7	13280.	10840.
#2	25.27	265.0	126.3	126.9	13980.	11330.
#3	26.59	278.5	134.5	134.4	14840.	11860.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	10630.	284.2	9526.	278.9	270.3	208.6
Stddev	566.	16.4	442.	15.5	12.7	10.9
%RSD	5.325	5.777	4.641	5.552	4.679	5.205

#1	10110.	268.5	9111.	263.2	257.2	197.0
#2	10560.	282.9	9475.	279.4	271.2	210.3
#3	11230.	301.2	9991.	294.1	282.4	218.5

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110898-F-11-C MS Acquired: 3/29/2016 16:32:30 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	929.3	1070.	264.1	285.3	274.2	246.0
Stddev	47.3	55.	15.4	15.1	13.0	13.8
%RSD	5.094	5.159	5.844	5.296	4.734	5.623
#1	881.0	1017.	249.1	269.8	261.0	232.0
#2	931.5	1067.	263.3	286.0	274.6	246.2
#3	975.6	1127.	279.9	300.0	286.9	259.7

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	257.0	252.7	503.1	1093.
Stddev	14.0	13.6	29.1	44.
%RSD	5.456	5.372	5.776	4.031
#1	242.5	239.8	474.7	1047.
#2	258.1	251.4	501.7	1096.
#3	270.5	266.9	532.8	1135.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2772.7	30795.	4855.8
Stddev	.9	194.	32.4
%RSD	.03322	.62987	.66716
#1	2773.6	30695.	4891.3
#2	2771.8	31018.	4848.3
#3	2772.5	30671.	4827.9

Sample Name: CCV Acquired: 3/29/2016 16:36:36 Type: QC
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	129100.	2526.	1268.	10360.	1047.	127500.
Stddev	206.	16.	3.	29.	4.	429.
%RSD	.1595	.6206	.2754	.2841	.3430	.3362

#1	128800.	2510.	1264.	10320.	1051.	127000.
#2	129200.	2528.	1270.	10370.	1046.	127500.
#3	129100.	2541.	1271.	10380.	1044.	127900.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1289.	2582.	5165.	12690.	103300.	51480.
Stddev	2.	3.	23.	23.	643.	113.
%RSD	.1840	.1224	.4548	.1773	.6222	.2188

#1	1286.	2578.	5142.	12660.	102600.	51590.
#2	1290.	2583.	5164.	12700.	103300.	51490.
#3	1290.	2584.	5189.	12700.	103900.	51360.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	127000.	5147.	128400.	2589.	7758.	1017.
Stddev	360.	9.	154.	10.	30.	8.
%RSD	.2832	.1771	.1201	.3793	.3922	.8131

#1	126600.	5137.	128300.	2578.	7723.	1010.
#2	127100.	5150.	128500.	2595.	7775.	1016.
#3	127300.	5155.	128300.	2595.	7776.	1026.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 3/29/2016 16:36:36 Type: QC
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2539.	2600.	2537.	2572.	1031.	2571.
Stddev	16.	24.	3.	9.	7.	8.
%RSD	.6226	.9067	.1190	.3524	.6887	.3249

#1	2520.	2580.	2533.	2562.	1023.	2562.
#2	2549.	2626.	2538.	2577.	1033.	2577.
#3	2546.	2595.	2539.	2578.	1036.	2575.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1032.	5164.	10410.	10030.
Stddev	4.	13.	68.	47.
%RSD	.4287	.2613	.6507	.4701

#1	1027.	5180.	10380.	10000.
#2	1036.	5157.	10480.	9998.
#3	1032.	5156.	10360.	10080.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2606.7	29139.	4821.2
Stddev	7.3	162.	13.6
%RSD	.28196	.55618	.28263

#1	2611.6	29316.	4835.3
#2	2598.3	29103.	4820.3
#3	2610.4	28997.	4808.1

Sample Name: CCB Acquired: 3/29/2016 18:29:05 Type: QC
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5.934	.8951	.6398	.5393	-.0717	68.35
Stddev	12.92	.7041	.6262	.3302	.1009	94.53
%RSD	217.7	78.67	97.87	61.22	140.9	138.3

#1	1.099	.9043	1.148	.9156	-.0879	177.5
#2	20.57	.1864	.8315	.4045	-.1635	14.29
#3	-3.872	1.595	-.0598	.2979	.0364	13.26

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.1370	.0967	1.589	3.993	26.73	-5.494
Stddev	.0877	.1678	2.557	5.675	51.65	48.98
%RSD	63.99	173.5	161.0	142.1	193.3	891.5

#1	.0376	.0696	4.537	10.53	86.24	18.78
#2	.2034	.2763	.2514	1.106	.4095	26.61
#3	.1700	-.0559	-.0223	.3411	-6.467	-61.87

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	39.45	1.754	25.23	.4115	-.9501	1.684
Stddev	65.32	2.593	4.98	.5450	1.547	.512
%RSD	165.6	147.9	19.74	132.4	162.8	30.39

#1	114.9	4.748	20.79	-.2160	.8226	1.490
#2	2.159	.2980	24.29	.6837	-1.647	1.298
#3	1.323	.2157	30.62	.7667	-2.026	2.265

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 3/29/2016 18:29:05 Type: QC
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.4763	1.539	.6764	.2235	.7479	.7664
Stddev	.2425	2.008	.7231	.2867	.0557	.7157
%RSD	50.90	130.4	106.9	128.2	7.443	93.39
#1	-.2012	3.425	1.488	.4644	.8116	1.508
#2	-.6589	1.764	.4412	.2997	.7239	.7115
#3	-.5688	-.5712	.1001	-.0935	.7083	.0797

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.3238	.3164	3.358	12.71
Stddev	.5282	.1488	5.369	11.08
%RSD	163.1	47.03	159.9	87.19
#1	.3094	.1630	9.557	8.852
#2	.8591	.3261	.3533	4.074
#3	-.1970	.4602	.1638	25.21

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2867.6	31332.	4962.4
Stddev	35.7	171.	49.8
%RSD	1.2445	.54435	1.0039
#1	2829.9	31153.	4906.1
#2	2871.9	31348.	5000.6
#3	2900.9	31493.	4980.7

Sample Name: 460-110715-A-1-A@4 Acquired: 3/29/2016 18:48:22 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	22800.	22.55	1.926	1840.	1.448	3921.
Stddev	80.	2.09	.375	4.	.070	14.
%RSD	.3531	9.257	19.49	.1977	4.853	.3473

#1	22840.	23.72	1.986	1843.	1.522	3934.
#2	22840.	23.78	1.524	1836.	1.382	3907.
#3	22700.	20.14	2.267	1841.	1.441	3921.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5.588	22.56	68.16	190.0	106800.	1830.
Stddev	.033	.21	.28	.7	422.	46.
%RSD	.5986	.9162	.4061	.3907	.3954	2.494

#1	5.569	22.36	68.45	190.8	107300.	1787.
#2	5.568	22.54	68.14	189.9	106500.	1878.
#3	5.626	22.77	67.90	189.3	106700.	1825.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4285.	1431.	100.2	87.81	9104.	5.973
Stddev	14.	7.	5.0	.21	22.	1.624
%RSD	.3173	.5073	4.960	.2423	.2469	27.18

#1	4301.	1439.	105.9	87.96	9123.	4.165
#2	4278.	1428.	96.69	87.90	9079.	7.307
#3	4277.	1425.	98.12	87.57	9110.	6.448

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110715-A-1-A@4 Acquired: 3/29/2016 18:48:22 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.014	-4.327	56.66	3079.	2.107	1.827
Stddev	2.313	2.105	.47	13.	.217	.309
%RSD	228.2	48.65	.8213	.4098	10.31	16.92
#1	-2.678	-6.658	56.27	3093.	1.937	1.500
#2	3.684	-3.758	57.18	3070.	2.352	1.865
#3	-3.753	-2.564	56.55	3073.	2.032	2.115

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	474.9	56.16	925.5	780.4
Stddev	.4	.12	2.6	18.4
%RSD	.0853	.2121	.2845	2.352
#1	474.6	56.22	928.6	798.9
#2	475.3	56.02	923.7	762.2
#3	474.6	56.23	924.3	780.3

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2921.6	31969.	5072.1
Stddev	6.2	223.	15.8
%RSD	.21254	.69685	.31161
#1	2921.7	31713.	5054.6
#2	2927.7	32117.	5076.2
#3	2915.3	32076.	5085.5

Sample Name: CCVL Acquired: 3/29/2016 16:45:03 Type: QC
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	216.3	14.84	10.53	220.2	2.034	5255.
Stddev	3.3	2.13	.05	.4	.060	25.
%RSD	1.514	14.36	.4541	.1761	2.968	.4664

#1	216.5	16.91	10.48	219.8	2.066	5277.
#2	212.9	14.94	10.57	220.5	1.964	5258.
#3	219.4	12.66	10.55	220.3	2.072	5228.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.417	55.68	12.15	26.98	180.9	5093.
Stddev	.114	.24	.94	2.26	25.0	5.
%RSD	2.571	.4342	7.696	8.368	13.80	.0938

#1	4.323	55.48	13.09	29.58	209.4	5088.
#2	4.385	55.62	12.16	25.60	170.8	5095.
#3	4.543	55.95	11.22	25.75	162.6	5097.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5214.	17.06	5222.	45.48	10.29	19.74
Stddev	12.	.84	8.	.08	.15	1.59
%RSD	.2384	4.909	.1601	.1865	1.423	8.034

#1	5227.	18.02	5218.	45.40	10.24	19.74
#2	5202.	16.62	5217.	45.57	10.46	18.16
#3	5213.	16.53	5232.	45.48	10.18	21.33

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 3/29/2016 16:45:03 Type: QC
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	21.35	23.64	53.12	32.89	54.61	21.05
Stddev	.74	.85	.47	.13	.45	.18
%RSD	3.451	3.600	.8797	.3833	.8195	.8695
#1	21.77	24.61	53.64	33.01	54.27	20.84
#2	21.79	23.03	52.96	32.88	55.12	21.18
#3	20.50	23.27	52.75	32.76	54.43	21.13

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	53.32	21.39	23.64	F 1.214
Stddev	.74	.01	1.78	20.37
%RSD	1.388	.0342	7.552	1677.
#1	53.68	21.39	25.70	-6.314
#2	52.47	21.39	22.55	-14.32
#3	53.82	21.38	22.67	24.27

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2791.5	30915.	4913.0
Stddev	11.4	192.	60.1
%RSD	.40935	.62011	1.2230
#1	2784.8	30860.	4865.9
#2	2785.0	30757.	4892.3
#3	2804.7	31128.	4980.6

Sample Name: 460-110657-D-11-A@4 Acquired: 3/29/2016 19:10:44 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	32270.	4.753	.7364	246.7	2.458	6891.
Stddev	65.	.909	.3083	.8	.022	31.
%RSD	.2021	19.12	41.87	.3351	.8831	.4545

#1	32310.	4.790	.7369	247.6	2.434	6887.
#2	32310.	3.827	.4278	246.0	2.475	6924.
#3	32200.	5.644	1.044	246.4	2.466	6861.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.3539	24.14	54.94	119.7	62390.	3732.
Stddev	.0417	.14	.48	.2	418.	51.
%RSD	11.78	.5672	.8669	.1870	.6706	1.357

#1	-.3641	24.02	54.66	119.8	62370.	3686.
#2	-.3895	24.29	55.49	119.9	62820.	3723.
#3	-.3080	24.11	54.67	119.4	61980.	3786.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	9645.	2049.	1870.	47.08	33.38	-.2813
Stddev	63.	7.	10.	.51	.50	2.451
%RSD	.6561	.3285	.5479	1.083	1.509	871.3

#1	9676.	2046.	1870.	47.14	32.82	-.5977
#2	9686.	2056.	1880.	46.54	33.50	-2.559
#3	9572.	2044.	1859.	47.55	33.81	2.313

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110657-D-11-A@4 Acquired: 3/29/2016 19:10:44 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-0.0457	-0.4033	70.70	124.0	13.39	1.196
Stddev	2.444	1.104	.61	.5	.22	.203
%RSD	5352.	273.9	.8644	.3795	1.645	16.99
#1	2.148	-1.025	71.11	124.4	13.33	1.063
#2	-2.680	-1.056	70.98	124.1	13.21	1.096
#3	.3950	.8718	69.99	123.5	13.64	1.430

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	7.609	36.83	919.3	795.4
Stddev	.188	.10	4.0	3.9
%RSD	2.469	.2746	.4299	.4960
#1	7.751	36.81	921.4	798.0
#2	7.396	36.73	921.8	790.9
#3	7.679	36.93	914.8	797.4

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3019.6	32837.	5214.5
Stddev	28.3	379.	30.4
%RSD	.93822	1.1548	.58372
#1	2994.7	32629.	5180.9
#2	3013.7	32607.	5222.1
#3	3050.4	33275.	5240.3

Sample Name: pds 460-110898-F-11- Acquired: 3/29/2016 16:49:20 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	8971.	1850.	47.54	2006.	51.00	19730.
Stddev	47.	9.	.30	5.	.13	35.
%RSD	.5267	.5105	.6251	.2537	.2604	.1766
#1	8941.	1857.	47.77	2002.	51.05	19770.
#2	9026.	1854.	47.20	2005.	50.85	19700.
#3	8947.	1839.	47.65	2012.	51.10	19730.

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	49.50	506.4	227.2	247.5	12010.	19450.
Stddev	.20	1.1	.4	.8	52.	53.
%RSD	.4089	.2236	.1924	.3343	.4310	.2748
#1	49.45	505.4	226.7	248.2	11990.	19450.
#2	49.33	507.6	227.2	246.6	11960.	19510.
#3	49.72	506.1	227.6	247.6	12060.	19400.

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	19900.	535.6	19250.	527.5	517.3	472.0
Stddev	37.	.9	23.	1.1	1.7	2.6
%RSD	.1839	.1716	.1208	.2178	.3300	.5604
#1	19910.	536.7	19280.	526.2	517.9	469.0
#2	19860.	535.0	19250.	528.1	515.4	473.3
#3	19930.	535.2	19230.	528.3	518.7	473.8

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Sample Name: pds 460-110898-F-11- Acquired: 3/29/2016 16:49:20 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1876.	2108.	512.1	535.2	514.2	490.3
Stddev	4.	3.	.3	1.0	1.2	1.5
%RSD	.2391	.1272	.0535	.1905	.2428	.3090
#1	1871.	2109.	512.0	534.4	512.8	488.6
#2	1879.	2105.	511.8	534.8	515.1	491.1
#3	1877.	2109.	512.4	536.3	514.7	491.3

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	506.8	494.4	851.9	648.4
Stddev	.7	.7	.9	10.4
%RSD	.1354	.1471	.1056	1.602
#1	507.2	495.0	851.1	658.4
#2	506.0	494.7	851.8	637.7
#3	507.2	493.6	852.8	649.1

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2748.4	30099.	4875.8
Stddev	15.4	243.	45.9
%RSD	.55945	.80746	.94131
#1	2732.5	29821.	4826.3
#2	2763.2	30273.	4917.0
#3	2749.6	30203.	4884.0

Sample Name: CCVL Acquired: 3/29/2016 19:22:15 Type: QC
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	229.8	13.87	10.27	215.8	2.096	5146.
Stddev	19.3	.65	.15	.3	.087	50.
%RSD	8.400	4.703	1.448	.1174	4.141	.9669

#1	246.2	14.55	10.40	216.0	2.091	5197.
#2	208.5	13.79	10.31	215.5	2.012	5142.
#3	234.7	13.26	10.11	215.8	2.186	5098.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.311	55.36	10.54	25.12	162.0	5146.
Stddev	.122	.11	.57	.45	12.8	6.
%RSD	2.818	.2050	5.424	1.773	7.915	.1113

#1	4.430	55.22	10.59	25.55	174.5	5152.
#2	4.187	55.42	9.941	25.17	162.7	5144.
#3	4.317	55.42	11.08	24.66	148.9	5141.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5042.	16.25	5098.	44.50	10.29	19.66
Stddev	39.	.25	24.	.38	1.24	1.69
%RSD	.7735	1.550	.4643	.8627	12.06	8.585

#1	5077.	16.54	5123.	44.14	11.28	18.92
#2	5048.	16.09	5094.	44.46	8.899	21.59
#3	5000.	16.12	5076.	44.90	10.71	18.47

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 3/29/2016 19:22:15 Type: QC
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	16.87	23.44	51.42	31.65	52.73	20.77
Stddev	1.08	.87	.44	.22	1.01	.17
%RSD	6.418	3.699	.8653	.6817	1.910	.8173
#1	17.98	22.64	51.85	31.88	51.79	20.97
#2	15.82	24.36	51.44	31.45	53.79	20.67
#3	16.81	23.32	50.96	31.61	52.61	20.68

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	53.17	21.35	21.88	F 14.35
Stddev	1.10	.13	.03	16.57
%RSD	2.065	.6107	.1409	115.5
#1	51.95	21.22	21.84	23.84
#2	53.48	21.48	21.89	23.99
#3	54.07	21.34	21.89	-4.783

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2856.8	31691.	4901.8
Stddev	6.8	360.	21.6
%RSD	.23848	1.1359	.44025
#1	2850.8	31278.	4914.8
#2	2864.2	31864.	4876.9
#3	2855.3	31933.	4913.6

Sample Name: 460-110657-K-32-A@4 Acquired: 3/29/2016 19:30:01 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	72980.	15.14	.8940	297.5	2.533	1879.
Stddev	51.	.80	.5203	.5	.202	11.
%RSD	.0701	5.283	58.19	.1631	7.967	.5870
#1	72970.	15.03	.3334	296.9	2.646	1873.
#2	72930.	15.98	.9874	297.9	2.652	1872.
#3	73030.	14.39	1.361	297.7	2.300	1892.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.7373	32.52	93.21	85.58	93060.	2882.
Stddev	.1825	.13	.25	.48	316.	6.
%RSD	24.76	.4102	.2657	.5664	.3400	.2179
#1	-.6646	32.54	93.04	85.28	92800.	2880.
#2	-.6022	32.37	93.10	85.32	92960.	2889.
#3	-.9449	32.64	93.50	86.14	93410.	2877.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	12040.	1622.	2152.	63.08	48.62	.5855
Stddev	100.	15.	13.	.48	1.24	.9029
%RSD	.8304	.9062	.5975	.7573	2.547	154.2
#1	11950.	1608.	2143.	62.55	49.47	1.610
#2	12030.	1620.	2147.	63.20	47.20	-.0959
#3	12150.	1637.	2167.	63.48	49.18	.2429

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110657-K-32-A@4 Acquired: 3/29/2016 19:30:01 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.7037	-5.062	136.9	153.8	6.121	2.017
Stddev	1.487	2.269	1.6	.2	.318	.132
%RSD	211.4	44.84	1.194	.1291	5.195	6.550
#1	-0.9757	-4.233	135.5	153.6	6.472	2.120
#2	1.232	-3.323	136.5	153.9	6.036	2.062
#3	1.855	-7.629	138.7	154.0	5.854	1.868

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	8.372	21.09	1794.	886.6
Stddev	.586	.22	3.	18.6
%RSD	6.996	1.027	.1695	2.102
#1	8.192	20.97	1792.	874.6
#2	7.898	21.34	1793.	877.2
#3	9.027	20.95	1798.	908.1

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2991.6	33084.	5289.6
Stddev	7.6	239.	58.9
%RSD	.25266	.72156	1.1133
#1	2985.6	33050.	5224.1
#2	3000.1	33338.	5338.1
#3	2989.2	32865.	5306.7

Sample Name: 460-110898-E-12-A@4 Acquired: 3/29/2016 16:53:21 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7342.	1.547	.0435	9.952	.0561	218.2
Stddev	28.	1.543	.5009	.604	.1664	.3
%RSD	.3823	99.75	1152.	6.066	296.8	.1461

#1	7314.	2.415	-.3269	10.65	.0462	217.9
#2	7370.	2.461	.6134	9.642	.2272	218.1
#3	7343.	-.2347	-.1561	9.566	-.1052	218.5

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0124	.5287	8.107	2.638	979.5	238.0
Stddev	.0474	.0698	.461	.234	16.4	4.4
%RSD	381.2	13.21	5.691	8.856	1.676	1.854

#1	.0465	.5541	7.990	2.908	984.1	239.7
#2	-.0417	.4498	7.714	2.513	993.1	241.4
#3	.0325	.5823	8.615	2.494	961.2	233.0

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	59.04	5.128	40.23	4.049	3.483	1.522
Stddev	3.63	.040	2.15	.110	.884	.457
%RSD	6.148	.7794	5.354	2.706	25.40	30.01

#1	61.51	5.138	38.20	4.118	3.662	1.294
#2	60.74	5.162	40.00	4.107	4.264	1.224
#3	54.87	5.084	42.49	3.923	2.522	2.048

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110898-E-12-A@4 Acquired: 3/29/2016 16:53:21 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.719	-1.931	4.083	8.497	3.356	.3521
Stddev	1.186	1.344	.462	.315	.094	.0807
%RSD	69.00	69.59	11.32	3.702	2.811	22.92
#1	.9707	-.4092	3.549	8.824	3.353	.4130
#2	1.099	-2.430	4.345	8.471	3.263	.2606
#3	3.086	-2.954	4.354	8.197	3.451	.3829

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	7.147	3.617	140.2	883.2
Stddev	.443	.111	.4	20.3
%RSD	6.198	3.054	.2819	2.304
#1	6.985	3.494	139.8	860.9
#2	7.648	3.708	140.1	888.2
#3	6.807	3.651	140.6	900.6

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2785.2	30777.	4899.9
Stddev	17.2	538.	26.2
%RSD	.61808	1.7464	.53529
#1	2779.9	30517.	4881.4
#2	2771.2	30418.	4888.3
#3	2804.4	31395.	4929.9

Sample Name: 460-110703-A-1-B@4 Acquired: 3/29/2016 19:37:41 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	47100.	49.22	2.073	145.8	4.746	4517.
Stddev	12.	.65	.151	.7	.019	6.
%RSD	.0249	1.326	7.278	.4496	.4078	.1381

#1	47110.	49.16	1.974	145.7	4.768	4513.
#2	47090.	49.90	2.247	145.2	4.731	4514.
#3	47100.	48.60	1.999	146.5	4.739	4524.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.216	20.12	295.6	22.76	182700.	9157.
Stddev	.177	.09	1.0	.41	162.	9.
%RSD	14.59	.4408	.3350	1.798	.0885	.0949

#1	-1.171	20.20	295.0	23.18	182500.	9159.
#2	-1.412	20.02	295.0	22.36	182800.	9165.
#3	-1.066	20.14	296.7	22.73	182600.	9148.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	6638.	915.5	22.63	55.00	73.10	-.1798
Stddev	26.	2.0	8.07	.49	1.14	1.098
%RSD	.3886	.2135	35.65	.8899	1.553	610.8

#1	6643.	917.7	31.71	54.44	72.23	1.027
#2	6610.	914.5	16.28	55.34	74.38	-1.121
#3	6660.	914.1	19.90	55.23	72.68	-.4456

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110703-A-1-B@4 Acquired: 3/29/2016 19:37:41 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.732	-6.057	314.5	235.9	39.55	2.886
Stddev	1.791	1.725	2.0	.7	.81	.136
%RSD	65.56	28.48	.6221	.2952	2.047	4.722
#1	3.858	-4.417	315.8	235.4	39.73	3.005
#2	.6668	-7.856	312.3	236.7	38.66	2.737
#3	3.670	-5.897	315.5	235.5	40.25	2.915

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	8.100	24.91	1028.	1098.
Stddev	.680	.07	2.	38.
%RSD	8.395	.2734	.1462	3.435
#1	8.073	24.92	1029.	1140.
#2	7.434	24.84	1028.	1067.
#3	8.793	24.97	1026.	1088.

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3034.6	33215.	5261.7
Stddev	34.7	240.	45.5
%RSD	1.1426	.72168	.86437
#1	3004.6	33020.	5260.4
#2	3026.6	33143.	5216.9
#3	3072.6	33483.	5307.8

Sample Name: 460-110703-A-4-B@4 Acquired: 3/29/2016 19:49:05 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	59660.	61.84	2.236	245.3	5.414	4597.
Stddev	12.	2.30	.237	.9	.080	12.
%RSD	.0197	3.721	10.58	.3505	1.480	.2558

#1	59650.	59.19	2.324	245.7	5.347	4611.
#2	59650.	63.06	2.415	244.4	5.393	4590.
#3	59670.	63.28	1.967	246.0	5.503	4590.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.8782	15.90	267.2	34.12	178800.	10380.
Stddev	.1196	.28	1.0	.36	359.	38.
%RSD	13.62	1.790	.3730	1.069	.2005	.3692

#1	-.7472	15.81	267.2	34.35	178800.	10430.
#2	-.9058	15.67	268.2	34.30	178500.	10360.
#3	-.9815	16.22	266.2	33.70	179200.	10370.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7849.	1437.	32.45	52.99	86.79	-.4385
Stddev	4.	3.	3.96	.43	.46	1.153
%RSD	.0531	.2385	12.20	.8049	.5256	262.9

#1	7853.	1437.	36.95	53.19	87.32	.6734
#2	7845.	1434.	30.88	52.50	86.52	-1.628
#3	7848.	1440.	29.51	53.27	86.54	-.3610

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110703-A-4-B@4 Acquired: 3/29/2016 19:49:05 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.149	-4.974	307.9	258.5	41.22	2.774
Stddev	1.597	1.211	1.3	1.2	.18	.140
%RSD	74.34	24.36	.4143	.4586	.4352	5.043
#1	3.743	-5.443	308.1	257.7	41.18	2.865
#2	.5482	-3.598	309.0	258.0	41.06	2.613
#3	2.155	-5.880	306.5	259.9	41.41	2.844

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	9.028	27.09	1099.	1108.
Stddev	.426	.14	1.	23.
%RSD	4.720	.5074	.0647	2.056
#1	8.579	27.24	1098.	1102.
#2	9.077	26.97	1099.	1089.
#3	9.427	27.06	1100.	1134.

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3264.3	35511.	5716.0
Stddev	7.5	270.	64.7
%RSD	.22979	.76055	1.1312
#1	3256.0	35214.	5641.4
#2	3270.5	35743.	5750.8
#3	3266.5	35575.	5755.9

Sample Name: 460-110898-F-14-A@4 Acquired: 3/29/2016 17:02:02 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5396.	1.848	-.2246	21.79	.0764	246.3
Stddev	26.	2.810	.2491	.13	.1064	4.8
%RSD	.4858	152.0	110.9	.6090	139.3	1.957

#1	5397.	4.840	-.3589	21.64	-.0236	240.9
#2	5422.	1.440	.0627	21.88	.1882	248.0
#3	5370.	-.7349	-.3778	21.86	.0645	250.0

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0472	.5374	14.98	2.174	1242.	285.8
Stddev	.0408	.2354	.14	.183	7.	20.0
%RSD	86.37	43.80	.9627	8.423	.5728	6.987

#1	-.0028	.6884	14.88	2.039	1245.	295.6
#2	-.0830	.2662	14.92	2.383	1234.	262.8
#3	-.0559	.6575	15.15	2.100	1247.	299.0

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	41.43	16.81	37.75	2.156	10.70	1.288
Stddev	3.65	.16	7.84	.265	1.14	1.219
%RSD	8.805	.9336	20.78	12.27	10.61	94.65

#1	42.74	16.63	28.69	1.905	11.50	2.607
#2	37.30	16.86	42.34	2.131	9.399	.2019
#3	44.23	16.93	42.20	2.433	11.19	1.056

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110898-F-14-A@4 Acquired: 3/29/2016 17:02:02 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.3375	-1.801	8.235	5.296	2.216	.5989
Stddev	.5214	1.286	.549	.143	.291	.1290
%RSD	154.5	71.41	6.662	2.705	13.11	21.54
#1	.6236	-2.455	8.282	5.461	2.073	.6296
#2	-.2644	-2.627	7.665	5.228	2.551	.7097
#3	.6532	-.3192	8.759	5.199	2.024	.4573

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	7.352	4.093	477.2	920.4
Stddev	1.124	.044	1.0	14.2
%RSD	15.29	1.074	.2064	1.541
#1	6.054	4.046	476.1	934.5
#2	8.014	4.133	477.4	906.2
#3	7.988	4.101	478.0	920.4

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2768.7	30513.	4850.9
Stddev	19.0	38.	39.4
%RSD	.68714	.12398	.81144
#1	2749.3	30498.	4811.7
#2	2769.7	30486.	4850.5
#3	2787.3	30557.	4890.4

Sample Name: 460-110898-E-16-A@4 Acquired: 3/29/2016 17:10:43 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3430.	1.821	.5368	12.35	.0296	165.6
Stddev	22.	2.167	.1292	.09	.0305	5.9
%RSD	.6317	119.0	24.07	.7676	103.2	3.571

#1	3442.	-.5652	.6183	12.34	.0576	165.5
#2	3443.	2.364	.6042	12.27	-.0030	159.8
#3	3405.	3.665	.3878	12.45	.0341	171.6

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0283	.3180	12.11	1.611	942.0	188.8
Stddev	.0435	.2124	.45	.193	9.6	11.2
%RSD	153.7	66.80	3.732	11.96	1.022	5.917

#1	-.0331	.3608	12.48	1.823	952.1	178.6
#2	.0174	.5058	11.61	1.563	941.0	200.7
#3	-.0692	.0874	12.23	1.446	932.9	187.2

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	25.01	14.18	26.05	1.696	7.831	.9358
Stddev	3.16	.08	1.65	.108	.787	.8490
%RSD	12.62	.5803	6.317	6.355	10.05	90.72

#1	21.47	14.22	26.69	1.749	8.737	1.821
#2	26.03	14.09	27.27	1.767	7.431	.1287
#3	27.52	14.24	24.18	1.572	7.324	.8575

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110898-E-16-A@4 Acquired: 3/29/2016 17:10:43 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.6400	-1.486	5.223	3.078	1.811	.6480
Stddev	1.098	.257	.523	.069	.253	.0653
%RSD	171.5	17.28	10.01	2.235	13.99	10.08
#1	-0.0615	-1.399	5.786	3.072	1.823	.5728
#2	1.905	-1.284	4.753	3.150	2.058	.6907
#3	.0764	-1.775	5.129	3.012	1.551	.6806

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	8.594	3.529	317.8	838.3
Stddev	.575	.078	.6	10.0
%RSD	6.693	2.204	.1968	1.196
#1	8.614	3.532	318.4	834.4
#2	9.160	3.449	317.9	830.8
#3	8.010	3.605	317.1	849.7

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2845.7	31057.	4931.2
Stddev	9.2	199.	23.7
%RSD	.32274	.64142	.48100
#1	2836.4	30862.	4904.9
#2	2846.1	31048.	4937.6
#3	2854.8	31260.	4951.0

Sample Name: CCB Acquired: 3/29/2016 20:08:00 Type: QC
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-12.27	-.0417	.4926	3.075	-.1103	26.03
Stddev	12.69	2.056	.6867	4.782	.0891	2.13
%RSD	103.4	4929.	139.4	155.5	80.76	8.181

#1	.6747	-2.311	-.1234	.2701	-.0084	28.08
#2	-24.68	1.696	1.233	.3590	-.1491	26.17
#3	-12.80	.4902	.3681	8.597	-.1733	23.83

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.4808	.7740	.0637	.3686	4.903	.7592
Stddev	.6571	1.208	.2876	.1204	8.890	36.35
%RSD	136.7	156.0	451.3	32.67	181.3	4787.

#1	.0258	-.1207	.0026	.2718	-.4127	41.60
#2	.1824	.2949	.3769	.5035	-.0448	-11.27
#3	1.234	2.148	-.1884	.3306	15.17	-28.05

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.939	.0721	21.55	1.182	1.716	1.081
Stddev	2.582	.0304	10.69	1.229	3.300	.709
%RSD	87.85	42.12	49.59	104.0	192.3	65.60

#1	.0806	.0645	33.83	.2170	-.4133	.2985
#2	3.634	.1056	14.35	.7628	.0437	1.263
#3	5.101	.0463	16.47	2.565	5.516	1.681

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 3/29/2016 20:08:00 Type: QC
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.5390	1.762	.1217	.6881	.9750	1.052
Stddev	3.201	1.241	.2652	1.171	.4461	.891
%RSD	593.8	70.41	217.9	170.2	45.76	84.71
#1	-3.075	2.293	.4065	.0815	1.131	.8306
#2	1.673	.3442	-.1182	-.0554	.4718	.2922
#3	3.018	2.648	.0768	2.038	1.322	2.032

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.5232	.0678	.3214	-.9682
Stddev	.7502	.0544	.1212	23.37
%RSD	143.4	80.26	37.70	2413.
#1	.1429	.0095	.4613	-13.05
#2	.0393	.1172	.2494	-15.82
#3	1.387	.0767	.2536	25.97

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2924.6	31891.	4869.0
Stddev	18.2	369.	82.5
%RSD	.62196	1.1584	1.6945
#1	2904.0	31552.	4833.3
#2	2938.3	31837.	4810.3
#3	2931.5	32285.	4963.3

Sample Name: CCVL Acquired: 3/29/2016 20:12:00 Type: QC
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	225.8	14.46	10.58	215.5	2.110	5191.
Stddev	5.4	1.52	.42	.3	.044	22.
%RSD	2.390	10.52	4.007	.1305	2.082	.4179

#1	231.7	12.90	11.03	215.2	2.113	5190.
#2	221.1	15.93	10.19	215.5	2.065	5213.
#3	224.6	14.54	10.51	215.7	2.153	5170.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.351	55.63	10.33	25.94	161.6	5215.
Stddev	.064	.08	.58	.44	.5	27.
%RSD	1.468	.1377	5.621	1.698	.3066	.5234

#1	4.346	55.72	9.670	26.42	161.3	5201.
#2	4.290	55.59	10.59	25.86	162.2	5197.
#3	4.417	55.58	10.74	25.55	161.3	5246.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5038.	16.41	5139.	44.30	11.69	20.70
Stddev	6.	.03	14.	.63	.55	.31
%RSD	.1129	.2069	.2707	1.433	4.706	1.491

#1	5041.	16.45	5135.	44.31	11.41	20.51
#2	5042.	16.40	5127.	44.93	12.33	20.54
#3	5032.	16.38	5154.	43.66	11.35	21.06

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 3/29/2016 20:12:00 Type: QC
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	18.73	22.53	52.59	31.03	52.62	20.89
Stddev	2.46	.14	.08	.16	.28	.13
%RSD	13.15	.6252	.1538	.5153	.5339	.6037
#1	21.45	22.50	52.53	30.90	52.86	20.84
#2	18.10	22.68	52.68	30.99	52.31	20.80
#3	16.65	22.40	52.56	31.21	52.70	21.04

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	53.58	21.75	21.65	F .3031
Stddev	.29	.12	.16	15.03
%RSD	.5375	.5606	.7194	4958.
#1	53.32	21.89	21.56	17.59
#2	53.53	21.70	21.83	-9.668
#3	53.89	21.66	21.57	-7.009

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2894.4	32149.	4899.8
Stddev	10.2	231.	11.7
%RSD	.35356	.71895	.23920
#1	2885.3	32056.	4904.8
#2	2892.5	31979.	4908.1
#3	2905.5	32412.	4886.4

Sample Name: 460-110703-A-9-B@4 Acquired: 3/29/2016 20:19:42 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	44690.	60.67	3.584	199.5	4.836	5123.
Stddev	109.	2.47	.236	.1	.159	30.
%RSD	.2428	4.071	6.586	.0683	3.283	.5773

#1	44560.	63.51	3.481	199.5	4.790	5143.
#2	44730.	59.46	3.416	199.7	5.013	5136.
#3	44770.	59.03	3.853	199.4	4.706	5089.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.1742	17.62	365.3	41.11	F 216000.	13960.
Stddev	.3382	.14	.7	.28	1160.	26.
%RSD	194.2	.7964	.1791	.6784	.5369	.1850

#1	-.0392	17.76	365.0	40.85	216500.	13970.
#2	-.0024	17.63	366.1	41.40	216800.	13970.
#3	.5641	17.48	364.9	41.08	214600.	13930.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					200000.	
Low Limit					-150.0	

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7589.	974.2	43.39	46.52	305.7	2.045
Stddev	41.	4.4	3.17	.59	.9	.593
%RSD	.5347	.4548	7.303	1.272	.2804	29.00

#1	7599.	978.6	46.49	46.05	305.1	1.409
#2	7624.	974.2	40.16	46.33	306.7	2.582
#3	7544.	969.7	43.50	47.18	305.3	2.144

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110703-A-9-B@4 Acquired: 3/29/2016 20:19:42 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.475	-2.926	408.5	476.4	77.85	3.149
Stddev	1.703	.945	1.1	.5	.26	.248
%RSD	49.01	32.28	.2719	.1143	.3290	7.871
#1	5.279	-4.004	409.6	476.6	77.77	2.907
#2	3.253	-2.242	408.7	476.8	77.64	3.136
#3	1.894	-2.532	407.4	475.8	78.14	3.402

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	11.79	35.03	1074.	1577.
Stddev	.34	.16	1.	15.
%RSD	2.856	.4681	.1321	.9701
#1	11.90	35.21	1074.	1594.
#2	12.05	34.97	1076.	1563.
#3	11.41	34.90	1073.	1575.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2962.5	32478.	5106.3
Stddev	8.1	217.	65.2
%RSD	.27341	.66921	1.2760
#1	2971.7	32257.	5179.3
#2	2956.4	32487.	5054.0
#3	2959.4	32691.	5085.7

Sample Name: 460-110703-A-10-B@4 Acquired: 3/29/2016 20:23:29 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	47070.	63.07	2.187	258.0	5.424	5343.
Stddev	115.	.34	.472	.4	.262	27.
%RSD	.2441	.5399	21.59	.1725	4.823	.5140
#1	47170.	62.74	2.569	258.0	5.698	5348.
#2	47100.	63.42	2.331	258.5	5.176	5313.
#3	46950.	63.05	1.659	257.6	5.399	5367.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.1045	23.53	250.5	31.63	142200.	11670.
Stddev	.1124	.16	1.6	.39	378.	69.
%RSD	107.6	.6789	.6363	1.223	.2656	.5897
#1	.0109	23.47	250.7	31.29	142500.	11750.
#2	.2292	23.41	248.8	31.55	141800.	11620.
#3	.0733	23.71	251.9	32.05	142300.	11640.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7520.	1329.	51.55	69.22	75.63	1.228
Stddev	65.	2.	8.14	.49	.10	.712
%RSD	.8642	.1460	15.79	.7134	.1351	58.01
#1	7547.	1329.	42.58	68.74	75.72	.4121
#2	7446.	1327.	58.47	69.72	75.52	1.726
#3	7567.	1331.	53.60	69.19	75.66	1.546

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110703-A-10-B@4 Acquired: 3/29/2016 20:23:29 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.121	-3.673	256.7	292.2	54.42	2.015
Stddev	.965	.505	.6	1.7	.77	.252
%RSD	86.08	13.76	.2528	.5658	1.423	12.53
#1	2.234	-3.734	256.2	291.0	55.05	2.059
#2	.6121	-3.140	256.4	294.1	54.64	1.743
#3	.5173	-4.145	257.4	291.4	53.55	2.242

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	8.799	27.26	916.6	1138.
Stddev	.181	.17	1.7	9.
%RSD	2.062	.6083	.1861	.7626
#1	9.008	27.43	917.7	1147.
#2	8.704	27.10	914.7	1135.
#3	8.686	27.25	917.6	1130.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3179.6	34972.	5480.0
Stddev	10.8	267.	12.3
%RSD	.33965	.76247	.22397
#1	3170.3	34700.	5469.7
#2	3176.9	35233.	5476.8
#3	3191.4	34985.	5493.6

Sample Name: 460-110898-F-18-A@4 Acquired: 3/29/2016 17:19:18 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	8331.	1.874	-.0819	15.55	.0219	447.8
Stddev	21.	1.192	.3653	.02	.1545	8.0
%RSD	.2498	63.63	445.8	.1475	704.5	1.792
#1	8339.	.5948	-.2142	15.57	.0820	454.0
#2	8308.	2.955	-.3627	15.53	-.1536	438.8
#3	8347.	2.072	.3311	15.53	.1373	450.7

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.1396	1.854	11.72	2.685	8274.	415.1
Stddev	.1072	.206	.16	.213	33.	27.0
%RSD	76.79	11.10	1.384	7.947	.4016	6.514
#1	-.2075	2.057	11.68	2.758	8306.	436.3
#2	-.1953	1.858	11.58	2.445	8240.	424.3
#3	-.0160	1.646	11.89	2.853	8277.	384.7

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	562.0	25.97	31.88	5.412	4.319	.6033
Stddev	3.9	.17	3.84	.275	.212	.4691
%RSD	.7007	.6639	12.03	5.083	4.917	77.75
#1	564.0	26.16	27.76	5.722	4.244	.5709
#2	557.4	25.82	32.53	5.196	4.153	.1513
#3	564.5	25.93	35.35	5.319	4.558	1.088

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110898-F-18-A@4 Acquired: 3/29/2016 17:19:18 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.172	-2.244	14.30	11.35	3.156	.0962
Stddev	.337	1.572	.36	.16	.353	.2166
%RSD	15.53	70.05	2.488	1.423	11.20	225.1
#1	2.476	-4.010	13.98	11.54	3.211	.1845
#2	2.232	-1.726	14.22	11.24	2.778	.2548
#3	1.809	-.9964	14.68	11.28	3.479	-.1506

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	6.344	4.123	180.6	785.5
Stddev	.646	.035	.7	26.5
%RSD	10.19	.8466	.3707	3.372
#1	6.256	4.084	181.3	772.3
#2	7.030	4.152	180.1	816.0
#3	5.746	4.132	180.3	768.3

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2779.7	30601.	4857.0
Stddev	6.5	397.	4.6
%RSD	.23458	1.2972	.09509
#1	2774.4	30148.	4862.2
#2	2777.8	30887.	4853.2
#3	2787.0	30769.	4855.6

Sample Name: 460-110898-F-19-A@4 Acquired: 3/29/2016 17:23:36 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4557.	-.1599	-.0453	12.30	.0813	245.0
Stddev	18.	.2059	.0545	.08	.0968	2.9
%RSD	.4058	128.8	120.1	.6548	119.1	1.170
#1	4556.	-.3860	.0133	12.23	.1322	245.5
#2	4538.	-.1105	-.0550	12.29	.1420	247.6
#3	4575.	.0169	-.0944	12.39	-.0303	242.0

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0227	1.008	11.64	2.166	5162.	296.9
Stddev	.0695	.143	.59	.066	25.	31.6
%RSD	305.4	14.24	5.061	3.066	.4939	10.66
#1	-.0570	1.140	12.31	2.110	5191.	260.3
#2	.0572	.8550	11.20	2.149	5153.	314.8
#3	-.0684	1.029	11.41	2.239	5143.	315.4

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	323.6	19.45	22.77	6.268	3.204	1.386
Stddev	4.8	.12	4.00	.436	.560	.779
%RSD	1.487	.6339	17.57	6.949	17.48	56.23
#1	328.8	19.56	26.18	5.876	3.533	.7281
#2	322.7	19.46	23.77	6.736	2.557	2.246
#3	319.3	19.31	18.37	6.191	3.521	1.183

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Sample Name: 460-110898-F-19-A@4 Acquired: 3/29/2016 17:23:36 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-0.0187	.1414	8.519	6.182	2.882	.5885
Stddev	3.379	.7047	.275	.142	.589	.1727
%RSD	18090.	498.5	3.232	2.293	20.42	29.35
#1	-1.972	-.4094	8.362	6.166	2.814	.4030
#2	-1.968	-.1021	8.836	6.049	2.330	.7448
#3	3.884	.9355	8.357	6.331	3.502	.6175

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	6.557	2.805	147.9	688.8
Stddev	.692	.123	.4	9.7
%RSD	10.55	4.366	.2846	1.413
#1	5.769	2.786	148.3	685.9
#2	7.064	2.935	147.5	680.9
#3	6.837	2.692	147.9	699.7

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2813.2	30986.	4955.2
Stddev	19.1	486.	42.1
%RSD	.67729	1.5678	.84983
#1	2793.5	30500.	4906.6
#2	2814.4	30987.	4977.0
#3	2831.6	31472.	4981.9

Sample Name: 460-110868-a-3-a@10 Acquired: 3/29/2016 20:42:29 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	34200.	137.1	1.656	402.6	2.480	9685.
Stddev	175.	.4	.326	.0	.040	23.
%RSD	.5129	.3261	19.68	.0087	1.626	.2414
#1	34290.	137.1	1.635	402.6	2.488	9666.
#2	34320.	137.6	1.992	402.6	2.437	9711.
#3	34000.	136.7	1.341	402.6	2.516	9677.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.4000	35.04	63.70	85.03	90850.	2270.
Stddev	.0659	.10	.21	.48	13.	9.
%RSD	16.48	.2885	.3312	.5680	.0140	.3880
#1	.4729	34.95	63.47	84.47	90850.	2279.
#2	.3445	35.02	63.87	85.27	90840.	2268.
#3	.3827	35.15	63.77	85.35	90860.	2262.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	6009.	335.5	149.7	57.41	671.0	-.2304
Stddev	33.	.8	3.4	.39	.5	1.437
%RSD	.5521	.2436	2.253	.6725	.0769	623.6
#1	5973.	334.6	152.3	57.24	671.2	.0135
#2	6038.	336.2	145.9	57.85	671.3	1.069
#3	6017.	335.7	150.9	57.14	670.4	-1.773

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110868-a-3-a@10 Acquired: 3/29/2016 20:42:29 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	8.543	-1.088	96.73	187.3	8.346	2.843
Stddev	2.245	2.066	.40	1.1	.507	.079
%RSD	26.28	189.8	.4173	.5787	6.076	2.780
#1	8.801	-.3329	96.30	188.3	7.926	2.809
#2	10.65	-3.425	96.78	187.5	8.202	2.934
#3	6.180	.4935	97.11	186.2	8.909	2.787

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	5.992	57.22	432.8	571.1
Stddev	.720	.29	.7	20.5
%RSD	12.02	.5090	.1530	3.589
#1	6.273	57.20	433.5	584.7
#2	6.530	57.53	432.7	581.1
#3	5.174	56.94	432.2	547.5

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3047.2	32696.	5142.8
Stddev	15.5	137.	26.4
%RSD	.50726	.41834	.51371
#1	3034.1	32846.	5171.7
#2	3043.1	32579.	5120.0
#3	3064.2	32663.	5136.6

Sample Name: 460-110898-E-20-A@4 Acquired: 3/29/2016 17:27:56 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3100.	.5964	-.1923	8.503	-.0037	242.0
Stddev	15.	1.162	.7000	.051	.0422	6.3
%RSD	.4855	194.9	364.1	.5953	1144.	2.622
#1	3084.	1.706	-.5494	8.532	.0419	234.8
#2	3113.	.6953	-.6417	8.532	-.0117	246.6
#3	3104.	-.6120	.6143	8.445	-.0413	244.8

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0341	.3235	10.18	39.69	3753.	239.0
Stddev	.0546	.0673	.43	.20	14.	17.0
%RSD	160.4	20.80	4.235	.5128	.3691	7.094
#1	-.0602	.4002	9.855	39.78	3769.	235.9
#2	-.0708	.2957	10.66	39.83	3744.	223.8
#3	.0287	.2746	10.01	39.46	3747.	257.3

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	216.0	11.83	21.39	2.796	2.599	2.508
Stddev	2.7	.04	3.57	.283	.700	.415
%RSD	1.264	.3803	16.68	10.11	26.91	16.56
#1	217.0	11.86	22.12	2.477	3.266	2.509
#2	212.9	11.86	17.51	2.893	1.871	2.923
#3	218.0	11.78	24.53	3.017	2.662	2.092

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110898-E-20-A@4 Acquired: 3/29/2016 17:27:56 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.492	-1.868	6.146	26.17	2.492	-.0340
Stddev	1.935	1.035	.318	.26	.411	.1528
%RSD	129.6	55.40	5.172	1.005	16.50	449.2
#1	.2771	-1.300	6.480	25.94	2.018	-.1855
#2	-3.558	-1.241	5.848	26.12	2.699	.1200
#3	-1.196	-3.062	6.110	26.46	2.759	-.0365

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	5.555	2.608	102.6	630.9
Stddev	1.039	.081	.1	21.6
%RSD	18.71	3.112	.0599	3.420
#1	4.926	2.690	102.7	647.7
#2	4.984	2.528	102.6	606.6
#3	6.754	2.605	102.6	638.4

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2797.0	30819.	4896.5
Stddev	7.8	147.	9.5
%RSD	.27943	.47853	.19438
#1	2788.5	30649.	4897.0
#2	2798.6	30915.	4886.8
#3	2803.9	30893.	4905.8

Sample Name: CCB Acquired: 3/29/2016 17:36:23 Type: QC
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	49.66	-.5749	-.1781	.1321	.3593	4.258
Stddev	96.64	1.508	.3272	.0852	.8532	4.431
%RSD	194.6	262.3	183.7	64.54	237.5	104.1
#1	161.2	.1842	.1300	.2303	1.344	3.334
#2	-9.203	-2.311	-.5214	.0870	-.0973	9.079
#3	-3.008	.4024	-.1429	.0789	-.1685	.3620

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0892	.0803	.2940	.2224	-2.611	38.64
Stddev	.1369	.1036	.2424	.2219	9.692	41.69
%RSD	153.5	129.1	82.46	99.76	371.2	107.9
#1	.2468	-.0358	.5689	.0188	-4.222	86.24
#2	.0198	.1132	.2023	.1895	-11.40	21.08
#3	.0009	.1634	.1108	.4589	7.785	8.611

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	6.800	.0341	78.99	.0630	-.4343	.5289
Stddev	3.278	.0606	107.6	.6780	1.014	.5924
%RSD	48.21	177.8	136.2	1076.	233.4	112.0
#1	9.094	-.0322	203.2	.2951	-.1294	.7264
#2	8.261	.0478	15.09	-.7006	.3920	-.1370
#3	3.046	.0867	18.67	.5945	-1.566	.9974

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 3/29/2016 17:36:23 Type: QC
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.834	.7821	-.0049	.0707	.7208	.5480
Stddev	3.007	.9113	.5532	.1461	.3210	.4387
%RSD	164.0	116.5	11190.	206.7	44.53	80.05
#1	-4.237	1.191	.5766	.2233	.5379	.9619
#2	-2.802	1.418	-.0670	.0566	.5332	.5940
#3	1.539	-.2620	-.5245	-.0678	1.091	.0881

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.1662	2.342	.0686	4.478
Stddev	.3859	4.140	.1973	11.85
%RSD	232.2	176.8	287.7	264.5
#1	.6114	7.120	.1653	13.32
#2	-.0405	.1071	-.1584	9.097
#3	-.0723	-.2000	.1989	-8.983

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2834.5	30932.	4936.6
Stddev	11.9	54.	39.7
%RSD	.41999	.17442	.80426
#1	2824.9	30894.	4905.1
#2	2830.7	30909.	4923.5
#3	2847.8	30994.	4981.2

Sample Name: CCVL Acquired: 3/29/2016 21:01:57 Type: QC
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	230.5	14.41	10.44	212.5	2.202	5212.
Stddev	7.7	1.59	.53	.8	.137	26.
%RSD	3.359	11.01	5.070	.3843	6.234	.4986

#1	239.2	13.71	10.82	211.6	2.361	5187.
#2	227.7	16.23	9.836	212.8	2.122	5239.
#3	224.5	13.30	10.67	213.1	2.123	5212.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.459	55.33	10.79	25.92	163.0	5171.
Stddev	.031	.23	.46	.39	7.7	22.
%RSD	.6904	.4216	4.265	1.506	4.741	.4305

#1	4.477	55.32	11.13	26.13	170.9	5158.
#2	4.423	55.11	10.97	26.17	155.5	5197.
#3	4.476	55.57	10.27	25.47	162.5	5159.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5035.	16.42	5107.	44.04	10.81	19.36
Stddev	18.	.10	11.	.46	.71	.95
%RSD	.3659	.6155	.2130	1.041	6.550	4.886

#1	5014.	16.30	5107.	43.68	10.02	18.42
#2	5049.	16.46	5119.	44.55	10.99	19.36
#3	5043.	16.48	5097.	43.88	11.40	20.31

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 3/29/2016 21:01:57 Type: QC
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	17.49	21.46	52.33	30.71	51.60	20.39
Stddev	2.07	1.14	.36	.23	.31	.25
%RSD	11.85	5.289	.6809	.7654	.6049	1.245

#1	15.16	21.86	51.92	30.45	51.93	20.23
#2	19.14	22.33	52.52	30.77	51.30	20.68
#3	18.16	20.18	52.56	30.90	51.56	20.26

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	53.21	21.74	21.38	F 12.29
Stddev	.57	.22	.12	12.95
%RSD	1.071	1.032	.5564	105.4

#1	52.98	21.94	21.28	27.24
#2	53.86	21.77	21.51	5.345
#3	52.80	21.50	21.36	4.294

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2934.9	31920.	4921.1
Stddev	15.5	182.	56.5
%RSD	.52921	.57106	1.1479

#1	2920.3	31805.	4911.6
#2	2933.0	31824.	4870.0
#3	2951.2	32130.	4981.7

Sample Name: 460-110974-D-1-B@4 Acquired: 3/29/2016 17:49:26 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	28490.	51.70	1.614	628.0	2.018	23590.
Stddev	105.	.54	.531	1.4	.144	113.
%RSD	.3696	1.053	32.89	.2204	7.135	.4791

#1	28510.	51.18	2.156	626.4	1.917	23460.
#2	28380.	52.26	1.095	628.3	1.954	23650.
#3	28590.	51.65	1.591	629.1	2.183	23670.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5.003	9.884	86.41	148.4	84830.	8350.
Stddev	.052	.389	.30	.3	383.	63.
%RSD	1.039	3.937	.3508	.1729	.4510	.7591

#1	4.967	10.06	86.08	148.1	84530.	8293.
#2	4.981	9.438	86.46	148.3	84690.	8339.
#3	5.063	10.15	86.68	148.6	85260.	8418.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5397.	678.6	389.6	34.65	1567.	1.829
Stddev	27.	2.2	3.9	.43	3.	1.309
%RSD	.5050	.3213	.9969	1.254	.1987	71.58

#1	5370.	676.1	392.9	34.18	1567.	3.335
#2	5397.	679.7	385.3	34.72	1564.	.9696
#3	5424.	680.0	390.5	35.04	1570.	1.181

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110974-D-1-B@4 Acquired: 3/29/2016 17:49:26 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.352	-1.676	132.8	2512.	47.62	2.726
Stddev	3.292	1.753	.7	3.	.53	.092
%RSD	140.0	104.6	.4940	.1323	1.120	3.368
#1	3.650	-3.469	132.7	2512.	47.14	2.793
#2	4.797	.0335	132.2	2508.	47.52	2.621
#3	-1.391	-1.593	133.5	2515.	48.19	2.763

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	37.03	178.7	384.1	1474.
Stddev	.10	.7	1.1	21.
%RSD	.2574	.3774	.2847	1.423
#1	36.92	178.5	383.6	1477.
#2	37.09	178.1	383.3	1452.
#3	37.09	179.4	385.3	1493.

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2876.5	31130.	5048.1
Stddev	7.6	133.	27.8
%RSD	.26314	.42882	.55035
#1	2877.0	31190.	5048.5
#2	2883.8	31223.	5075.7
#3	2868.6	30977.	5020.1

Sample Name: 460-110976-E-1-A@10 Acquired: 3/29/2016 17:53:38 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	14990.	F -17.12	3.439	19.02	2.395	236.2
Stddev	48.	1.04	.342	.76	.048	5.8
%RSD	.3219	6.090	9.952	4.003	2.007	2.438
#1	14990.	-18.06	3.677	19.31	2.340	234.9
#2	15040.	-16.00	3.047	19.59	2.414	242.5
#3	14950.	-17.30	3.594	18.16	2.430	231.1

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		5000.				
Low Limit		-10.00				

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-3.645	.9884	40.51	-3.334	F 381000.	-39.59
Stddev	.449	.1561	.80	.321	1872.	33.64
%RSD	12.31	15.79	1.974	9.619	.4912	84.97
#1	-3.660	1.165	40.56	-3.689	382100.	-65.87
#2	-4.087	.8674	41.28	-3.246	382100.	-51.22
#3	-3.189	.9332	39.68	-3.066	378800.	-1.677

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					200000.	
Low Limit					-150.0	

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	158.6	48.88	-64.81	2.363	28.92	1.384
Stddev	6.4	.45	6.02	.404	.91	.322
%RSD	4.021	.9198	9.293	17.08	3.157	23.26
#1	165.1	49.04	-60.54	2.815	29.94	1.027
#2	152.4	49.22	-62.19	2.236	28.20	1.472
#3	158.1	48.37	-71.70	2.038	28.61	1.653

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110976-E-1-A@10 Acquired: 3/29/2016 17:53:38 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7.390	-8.790	32.70	194.4	-14.41	3.685
Stddev	2.386	3.298	.36	1.3	.48	.329
%RSD	32.29	37.52	1.087	.6752	3.362	8.927
#1	5.070	-8.487	32.91	193.7	-14.75	4.032
#2	9.838	-5.653	32.89	196.0	-14.62	3.644
#3	7.262	-12.23	32.29	193.7	-13.86	3.378

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1.415	-4.057	78.02	448.7
Stddev	.880	.126	.03	12.9
%RSD	62.24	3.095	.0371	2.870
#1	1.663	-4.193	78.00	463.6
#2	2.145	-3.946	78.05	441.0
#3	.4369	-4.031	78.01	441.6

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2807.9	30877.	4959.1
Stddev	11.5	436.	86.7
%RSD	.40962	1.4123	1.7487
#1	2804.2	30597.	4915.0
#2	2798.8	30653.	4903.2
#3	2820.9	31379.	5059.0

Sample Name: 460-110976-E-3-A@4 Acquired: 3/29/2016 18:02:07 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	17240.	8.491	.5505	67.10	.7276	701.0
Stddev	29850.	5.887	.9820	58.70	1.468	1069.
%RSD	173.1	69.33	178.4	87.49	201.7	152.4

#1	9.59	3.219	.0226	-.0878	-.1454	55.86
#2	2.80	7.411	-.0546	92.90	-.0941	112.7
#3	51710.	14.84	1.684	108.5	2.422	1934.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5.551	9.096	30.63	19.23	55950.	322.4
Stddev	10.49	7.728	51.09	35.07	92410.	518.4
%RSD	189.0	84.96	166.8	182.4	165.2	160.8

#1	.4474	.3246	-.4680	-2.046	18.19	21.49
#2	17.62	14.90	2.769	.0237	5207.	24.83
#3	-1.413	12.06	89.60	59.71	162600.	921.0

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	324.0	80.95	172.9	18.68	37.88	1.163
Stddev	534.8	134.0	315.5	15.66	33.81	2.939
%RSD	165.1	165.5	182.5	83.83	89.26	252.7

#1	1.620	-.1174	-4.707	.6960	-1.131	-1.481
#2	28.93	7.359	-13.84	29.29	56.04	4.327
#3	941.3	235.6	537.2	26.05	58.73	.6438

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110976-E-3-A@4 Acquired: 3/29/2016 18:02:07 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-4.691	.2884	38.74	66.24	.8131	4.972
Stddev	12.68	4.566	63.84	57.64	3.269	4.834
%RSD	270.4	1583.	164.8	87.00	402.1	97.23
#1	-3.371	4.568	.0967	-.2878	-2.191	-.4793
#2	-17.98	.8157	3.695	100.9	4.294	6.657
#3	7.281	-4.519	112.4	98.12	.3361	8.738

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	5.521	5.250	150.3	353.0
Stddev	5.512	9.159	249.2	651.5
%RSD	99.84	174.5	165.8	184.5
#1	-.5871	.0298	-.4390	-29.33
#2	10.12	-1.063	13.43	-16.81
#3	7.026	15.83	438.0	1105.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	4184.2	55918.	7335.9
Stddev	2113.9	20374.	1804.1
%RSD	50.520	36.436	24.593
#1	6625.1	68181.	8239.2
#2	2959.1	67173.	8509.9
#3	2968.5	32399.	5258.5

Sample Name: 460-110976-E-4-A@4 Acquired: 3/29/2016 18:06:07 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	18140.	23.07	2.464	26.86	1.205	847.8
Stddev	61.	2.71	.578	.13	.030	2.9
%RSD	.3363	11.74	23.46	.4668	2.478	.3480
#1	18090.	21.78	2.750	27.00	1.205	851.2
#2	18210.	21.26	1.799	26.82	1.175	846.1
#3	18140.	26.19	2.844	26.76	1.235	846.2

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.9057	2.271	152.7	16.14	119800.	886.0
Stddev	.1539	.136	.4	.30	256.	21.0
%RSD	16.99	5.985	.2662	1.841	.2138	2.373
#1	-1.071	2.428	152.3	16.42	119700.	875.8
#2	-.7658	2.186	152.5	15.83	119600.	910.2
#3	-.8809	2.199	153.1	16.18	120100.	872.0

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	402.8	82.49	314.9	3.058	45.48	1.504
Stddev	2.9	.49	5.1	.177	.87	.912
%RSD	.7166	.5971	1.626	5.784	1.922	60.64
#1	405.3	82.91	317.0	2.854	46.40	.8854
#2	399.6	81.95	309.0	3.166	44.66	2.552
#3	403.6	82.61	318.5	3.154	45.40	1.075

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110976-E-4-A@4 Acquired: 3/29/2016 18:06:07 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.356	-3.743	294.3	55.86	-1.743	41.46
Stddev	1.770	2.942	1.7	.22	.189	.30
%RSD	130.6	78.60	.5817	.3977	10.82	.7171
#1	2.889	-2.649	296.2	55.77	-1.580	41.16
#2	-.5809	-7.075	292.8	56.11	-1.698	41.76
#3	1.758	-1.504	293.9	55.69	-1.949	41.45

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	7.404	9.468	501.4	949.5
Stddev	.328	.082	1.4	21.7
%RSD	4.429	.8659	.2751	2.285
#1	7.680	9.378	500.5	956.3
#2	7.490	9.488	500.8	966.9
#3	7.042	9.539	503.0	925.2

Check ? Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2855.8	31601.	4940.9
Stddev	7.8	75.	35.2
%RSD	.27245	.23867	.71202
#1	2850.9	31523.	4949.5
#2	2851.7	31608.	4902.2
#3	2864.7	31673.	4971.0

Sample Name: 460-110976-E-5-A@4 Acquired: 3/29/2016 18:10:04 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	17970.	25.74	1.043	64.28	1.468	1188.
Stddev	56.	1.89	.093	.07	.058	8.
%RSD	.3144	7.343	8.958	.1106	3.931	.6609
#1	17900.	26.82	1.146	64.25	1.487	1180.
#2	18020.	23.56	.9637	64.23	1.403	1188.
#3	17980.	26.85	1.019	64.36	1.514	1195.

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.2358	16.04	73.23	25.74	81160.	960.3
Stddev	.0578	.27	.28	.37	49.	19.4
%RSD	24.50	1.704	.3848	1.438	.0600	2.018
#1	-.2135	15.93	72.98	25.93	81160.	940.8
#2	-.3014	16.35	73.17	25.96	81110.	960.5
#3	-.1926	15.85	73.53	25.31	81210.	979.6

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	724.8	295.7	1012.	18.88	39.75	.2928
Stddev	2.5	.6	9.	.26	2.62	1.328
%RSD	.3412	.1929	.8760	1.377	6.584	453.7
#1	727.2	295.2	1002.	18.72	38.12	-.0832
#2	725.1	295.4	1019.	18.75	42.77	1.769
#3	722.2	296.3	1015.	19.18	38.36	-.8071

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Sample Name: 460-110976-E-5-A@4 Acquired: 3/29/2016 18:10:04 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.019	-3.399	66.11	86.34	2.014	6.220
Stddev	2.672	1.952	.24	.44	.414	.181
%RSD	262.2	57.42	.3679	.5123	20.53	2.905
#1	-0.2046	-4.062	66.37	86.13	2.353	6.012
#2	4.084	-1.202	66.07	86.05	2.137	6.340
#3	-0.8217	-4.934	65.88	86.85	1.553	6.309

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	6.684	12.77	377.5	1010.
Stddev	.258	.14	.5	5.
%RSD	3.852	1.102	.1352	.5046
#1	6.865	12.64	378.1	1016.
#2	6.797	12.76	377.5	1008.
#3	6.389	12.92	377.0	1007.

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2860.0	32023.	5000.2
Stddev	16.3	239.	49.5
%RSD	.56935	.74481	.98929
#1	2841.8	31762.	4956.4
#2	2865.1	32076.	4990.3
#3	2873.1	32230.	5053.8

Sample Name: 460-110994-E-13-A@4 Acquired: 3/29/2016 18:21:36 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	49830.	15.48	1.136	517.2	3.638	F 296500.
Stddev	42.	1.08	.526	1.0	.064	777.
%RSD	.0838	6.980	46.32	.1929	1.747	.2622
#1	49790.	14.27	.5386	516.2	3.644	296400.
#2	49870.	15.86	1.531	518.2	3.698	297300.
#3	49840.	16.33	1.337	517.2	3.572	295800.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						250000.
Low Limit						-200.0

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.2611	9.105	116.3	90.14	34560.	2339.
Stddev	.1087	.168	.7	.46	87.	36.
%RSD	41.63	1.847	.6280	.5098	.2529	1.529
#1	.2884	8.979	115.5	90.65	34480.	2307.
#2	.1413	9.296	116.8	89.76	34660.	2334.
#3	.3535	9.040	116.7	90.01	34550.	2377.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	26570.	1321.	608.1	40.81	93.61	-1.110
Stddev	76.	3.	7.4	.15	.82	.807
%RSD	.2863	.1933	1.224	.3687	.8760	72.68
#1	26550.	1322.	601.5	40.82	94.14	-.7835
#2	26660.	1324.	606.6	40.65	92.66	-.5179
#3	26510.	1319.	616.2	40.95	94.01	-2.029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110994-E-13-A@4 Acquired: 3/29/2016 18:21:36 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.007	-1.706	83.37	299.3	76.10	4.926
Stddev	2.003	1.002	.19	2.0	.70	.146
%RSD	199.0	58.74	.2313	.6570	.9265	2.964
#1	-4.494	-2.802	83.39	297.1	75.49	4.828
#2	.6585	-1.483	83.56	301.0	75.93	5.094
#3	-3.229	-.8346	83.17	299.7	76.87	4.856

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	9.147	892.7	2405.	1027.
Stddev	.294	2.1	4.	17.
%RSD	3.216	.2336	.1610	1.649
#1	9.323	894.0	2401.	1045.
#2	8.808	893.7	2405.	1024.
#3	9.311	890.3	2409.	1011.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2817.1	30720.	5134.6
Stddev	9.6	124.	10.5
%RSD	.34099	.40487	.20513
#1	2825.2	30851.	5143.8
#2	2806.5	30603.	5123.1
#3	2819.7	30707.	5136.9

Sample Name: CCV Acquired: 3/29/2016 18:25:24 Type: QC
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	129000.	2509.	1265.	10330.	1045.	127900.
Stddev	169.	4.	5.	24.	1.	402.
%RSD	.1308	.1542	.4096	.2297	.1417	.3144

#1	129000.	2505.	1259.	10310.	1044.	128000.
#2	128900.	2509.	1270.	10330.	1044.	128200.
#3	129200.	2513.	1266.	10350.	1046.	127400.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1288.	2581.	5164.	12710.	102900.	51410.
Stddev	4.	5.	4.	80.	48.	41.
%RSD	.3019	.1865	.0726	.6281	.0465	.0796

#1	1285.	2576.	5163.	12630.	102900.	51360.
#2	1287.	2580.	5168.	12790.	103000.	51440.
#3	1293.	2586.	5160.	12720.	102900.	51430.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	126800.	5158.	128300.	2581.	7735.	1016.
Stddev	240.	18.	63.	9.	19.	3.
%RSD	.1896	.3574	.0490	.3551	.2471	.3011

#1	126600.	5154.	128400.	2573.	7716.	1014.
#2	127100.	5178.	128300.	2579.	7735.	1014.
#3	126700.	5142.	128300.	2591.	7755.	1019.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 3/29/2016 18:25:24 Type: QC
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2527.	2583.	2549.	2563.	1024.	2565.
Stddev	9.	8.	11.	8.	3.	7.
%RSD	.3734	.3225	.4454	.3091	.3240	.2693

#1	2522.	2573.	2543.	2554.	1023.	2559.
#2	2522.	2586.	2562.	2564.	1021.	2564.
#3	2538.	2589.	2543.	2570.	1028.	2572.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1025.	5162.	10330.	10050.
Stddev	2.	6.	111.	90.
%RSD	.2425	.1121	1.074	.8979

#1	1022.	5169.	10350.	10100.
#2	1026.	5159.	10210.	9945.
#3	1027.	5159.	10430.	10100.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2631.9	29395.	4872.6
Stddev	8.5	103.	15.2
%RSD	.32347	.34921	.31109

#1	2641.7	29476.	4889.8
#2	2626.9	29279.	4861.3
#3	2627.0	29428.	4866.6

Sample Name: CCVL Acquired: 3/29/2016 18:33:03 Type: QC
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	215.3	13.93	10.35	217.3	2.175	5334.
Stddev	7.3	.53	.17	.2	.118	19.
%RSD	3.397	3.770	1.675	.0945	5.449	.3636

#1	215.1	14.54	10.41	217.1	2.297	5312.
#2	222.7	13.65	10.49	217.5	2.061	5343.
#3	208.0	13.60	10.16	217.3	2.167	5347.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.404	55.73	10.60	26.10	162.1	5083.
Stddev	.035	.19	.28	.31	11.3	25.
%RSD	.8035	.3410	2.664	1.190	6.971	.4831

#1	4.373	55.93	10.66	26.30	171.1	5080.
#2	4.396	55.69	10.84	26.27	165.8	5108.
#3	4.443	55.56	10.29	25.75	149.5	5059.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5245.	16.83	5127.	44.48	10.10	20.04
Stddev	13.	.24	11.	.36	.79	.94
%RSD	.2478	1.417	.2071	.8013	7.783	4.686

#1	5238.	16.56	5130.	44.44	9.362	21.10
#2	5260.	17.01	5115.	44.86	9.998	19.69
#3	5237.	16.92	5136.	44.15	10.92	19.33

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 3/29/2016 18:33:03 Type: QC
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	19.10	22.95	53.77	32.44	52.44	20.91
Stddev	.57	1.22	.51	.11	.52	.10
%RSD	2.978	5.324	.9504	.3492	.9990	.4931

#1	19.55	24.27	53.26	32.53	52.46	20.86
#2	18.46	21.87	54.28	32.31	52.95	20.84
#3	19.28	22.69	53.76	32.48	51.91	21.03

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	54.02	21.51	21.90	F 6.180
Stddev	.62	.03	.08	21.88
%RSD	1.151	.1567	.3511	354.1

#1	53.67	21.55	21.82	27.50
#2	53.64	21.50	21.97	-16.23
#3	54.73	21.49	21.90	7.271

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2883.6	31223.	4984.6
Stddev	17.7	268.	45.5
%RSD	.61335	.85765	.91183

#1	2871.6	31531.	5036.4
#2	2875.2	31095.	4966.3
#3	2903.9	31044.	4951.3

Sample Name: MB 460-359060/1-A@2 Acquired: 3/29/2016 18:36:58 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-9.422	-1.103	.1401	-.0284	-.0702	8.393
Stddev	19.41	1.358	.3239	.0498	.1680	2.860
%RSD	206.0	123.1	231.2	175.5	239.5	34.08
#1	-6.477	-.5976	.5107	-.0085	.1203	11.64
#2	8.345	-.0706	-.0886	.0084	-.1332	6.265
#3	-30.13	-2.642	-.0019	-.0850	-.1975	7.269

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0883	.0834	.0675	-.2365	-1.319	-3.605
Stddev	.0711	.1294	.2583	.2468	1.169	13.90
%RSD	80.48	155.1	382.6	104.4	88.61	385.6
#1	.0649	-.0473	.0836	-.3930	-2.177	-11.08
#2	.0319	.2114	-.1985	.0481	-1.793	-12.16
#3	.1682	.0861	.3175	-.3644	.0123	12.43

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.6304	-.0256	11.55	.3809	-.5323	1.940
Stddev	2.034	.0555	3.82	.3475	1.051	2.201
%RSD	322.6	216.7	33.07	91.25	197.5	113.5
#1	-.2479	-.0370	15.79	.2245	-1.128	4.415
#2	-2.828	.0347	8.380	.7791	.6812	.2024
#3	1.185	-.0745	10.47	.1390	-1.150	1.202

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: MB 460-359060/1-A@2 Acquired: 3/29/2016 18:36:58 Type: Unk
 Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
 User: admin Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.359	-1.1312	-.0306	.3506	-.0691	-.4231
Stddev	2.498	.9842	.3394	.1504	.5438	.0931
%RSD	183.8	750.1	1108.	42.88	786.6	22.00
#1	-4.159	.2869	-.3079	.4824	.3184	-.3817
#2	-.5597	-1.256	-.1319	.3826	-.6907	-.3580
#3	.6415	.5749	.3479	.1868	.1650	-.5298

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.4531	-.0763	-.1931	12.61
Stddev	.7252	.0295	.0760	28.04
%RSD	160.0	38.69	39.33	222.4
#1	.4235	-.0756	-.1378	-3.185
#2	-.2568	-.0471	-.2797	-3.979
#3	1.193	-.1062	-.1619	44.98

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2890.4	31268.	4965.2
Stddev	4.5	81.	32.2
%RSD	.15459	.25812	.64898
#1	2895.6	31359.	4978.4
#2	2888.5	31243.	4988.8
#3	2887.3	31204.	4928.5

Sample Name: LCSSRM 460-359060/2- Acquired: 3/29/2016 18:40:56 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	35380.	467.6	193.2	1539.	328.5	31530.
Stddev	82.	.1	1.2	2.	.6	47.
%RSD	.2328	.0134	.6286	.1565	.1793	.1479
#1	35390.	467.6	194.5	1540.	328.2	31550.
#2	35290.	467.7	192.9	1539.	328.1	31570.
#3	35450.	467.6	192.1	1536.	329.1	31480.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	718.8	823.9	915.4	510.9	70420.	11680.
Stddev	.6	1.0	2.0	2.7	229.	15.
%RSD	.0840	.1188	.2209	.5193	.3252	.1291
#1	718.9	824.3	914.6	513.3	70480.	11660.
#2	719.3	824.6	917.7	511.4	70620.	11680.
#3	718.1	822.8	913.9	508.1	70170.	11690.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	12280.	2040.	11670.	766.4	654.2	276.0
Stddev	35.	4.	17.	1.3	1.1	1.1
%RSD	.2844	.2119	.1494	.1659	.1623	.3860
#1	12280.	2043.	11690.	766.8	654.6	274.7
#2	12320.	2042.	11670.	767.5	655.0	276.5
#3	12250.	2035.	11650.	765.0	653.0	276.7

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: LCSSRM 460-359060/2- Acquired: 3/29/2016 18:40:56 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	728.4	910.8	472.9	944.6	662.0	797.6
Stddev	5.4	7.4	2.5	.8	.7	1.5
%RSD	.7367	.8099	.5281	.0883	.1067	.1873
#1	722.9	902.4	475.3	943.8	661.2	795.9
#2	728.6	915.9	473.0	945.5	662.3	798.3
#3	733.6	914.2	470.3	944.4	662.6	798.5

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	509.7	426.1	1925.	1124.
Stddev	2.0	1.0	1.	13.
%RSD	.3881	.2440	.0561	1.175
#1	508.0	426.9	1927.	1117.
#2	511.9	424.9	1925.	1116.
#3	509.3	426.4	1924.	1139.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2942.8	32076.	5189.4
Stddev	9.4	197.	27.1
%RSD	.31955	.61551	.52151
#1	2935.5	31895.	5172.6
#2	2939.4	32047.	5220.6
#3	2953.4	32287.	5175.0

Sample Name: 460-110715-A-1-B DU Acquired: 3/29/2016 18:44:34 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	22970.	20.06	2.194	1864.	1.451	3962.
Stddev	33.	.46	.599	6.	.043	21.
%RSD	.1454	2.313	27.28	.3082	2.958	.5270

#1	23010.	20.56	1.545	1870.	1.456	3982.
#2	22960.	19.65	2.314	1863.	1.406	3963.
#3	22950.	19.97	2.724	1859.	1.492	3940.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5.460	22.55	68.46	191.7	108300.	1818.
Stddev	.030	.22	.40	1.3	476.	33.
%RSD	.5417	.9757	.5776	.6922	.4391	1.839

#1	5.494	22.67	68.01	193.2	108800.	1793.
#2	5.438	22.68	68.68	191.5	107900.	1856.
#3	5.449	22.29	68.70	190.5	108200.	1805.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4346.	1443.	98.90	89.05	9240.	4.842
Stddev	15.	8.	3.43	.54	32.	1.163
%RSD	.3377	.5209	3.463	.6098	.3451	24.01

#1	4359.	1452.	102.8	89.36	9275.	3.703
#2	4349.	1441.	96.57	89.37	9232.	6.027
#3	4330.	1438.	97.30	88.42	9212.	4.796

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110715-A-1-B DU Acquired: 3/29/2016 18:44:34 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.253	-2.185	57.09	3135.	2.240	1.848
Stddev	1.178	2.109	.34	10.	.635	.143
%RSD	36.23	96.52	.6022	.3206	28.34	7.714
#1	3.805	-3.166	57.38	3146.	2.908	1.732
#2	1.900	.2359	57.20	3131.	2.166	1.805
#3	4.053	-3.623	56.71	3127.	1.645	2.008

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	480.7	56.53	937.9	785.9
Stddev	1.3	.30	3.0	28.4
%RSD	.2671	.5301	.3166	3.619
#1	482.2	56.54	940.2	815.8
#2	480.1	56.82	934.5	782.6
#3	479.9	56.22	938.9	759.2

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2925.2	31907.	5119.8
Stddev	8.4	271.	40.0
%RSD	.28800	.84921	.78145
#1	2915.6	31597.	5074.3
#2	2928.8	32029.	5135.9
#3	2931.2	32096.	5149.3

Sample Name: sd 460-110715-A-1-A Acquired: 3/29/2016 18:52:08 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4529.	5.404	.4458	368.4	.1564	785.0
Stddev	26.	.163	.5624	.5	.0943	3.4
%RSD	.5840	3.018	126.2	.1372	60.28	.4387

#1	4558.	5.466	.9887	367.8	.1683	788.5
#2	4505.	5.219	-.1343	368.6	.2442	781.7
#3	4525.	5.528	.4828	368.7	.0567	784.7

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.111	4.430	13.30	36.46	21260.	349.2
Stddev	.085	.067	.39	.30	92.	7.2
%RSD	7.610	1.516	2.951	.8263	.4333	2.066

#1	1.048	4.400	13.58	36.81	21360.	348.3
#2	1.078	4.383	12.85	36.29	21240.	342.5
#3	1.207	4.507	13.46	36.28	21180.	356.9

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	853.8	282.0	23.09	17.67	1845.	2.445
Stddev	2.6	1.5	5.90	.38	5.	.245
%RSD	.3091	.5379	25.55	2.152	.2455	10.03

#1	851.6	283.7	16.73	17.50	1840.	2.235
#2	856.7	281.6	28.39	17.41	1849.	2.715
#3	852.9	280.8	24.16	18.11	1846.	2.385

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: sd 460-110715-A-1-A Acquired: 3/29/2016 18:52:08 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.312	-1.653	10.64	621.3	.0854	-.1154
Stddev	3.051	3.050	.42	.8	.1506	.0433
%RSD	131.9	184.5	3.926	.1266	176.4	37.49
#1	-1.013	1.094	10.59	622.1	.1587	-.1284
#2	4.981	-1.119	11.08	620.5	-.0879	-.0671
#3	2.969	-4.936	10.25	621.3	.1854	-.1506

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	94.21	10.95	181.4	146.8
Stddev	.25	.12	.1	15.5
%RSD	.2688	1.126	.0817	10.57
#1	93.92	11.08	181.3	154.5
#2	94.35	10.94	181.3	129.0
#3	94.36	10.83	181.6	157.0

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2915.8	31979.	5018.1
Stddev	9.5	119.	24.9
%RSD	.32721	.37068	.49616
#1	2913.0	31842.	4989.3
#2	2926.4	32054.	5032.3
#3	2907.9	32039.	5032.6

Sample Name: pds 460-110715-A-1-A Acquired: 3/29/2016 18:59:37 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	24840.	1777.	46.92	3691.	50.86	22190.
Stddev	45.	8.	.72	10.	.06	50.
%RSD	.1821	.4292	1.534	.2707	.1144	.2271

#1	24890.	1785.	47.18	3699.	50.87	22150.
#2	24820.	1777.	46.10	3694.	50.80	22250.
#3	24810.	1769.	47.47	3680.	50.92	22170.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	52.88	504.8	261.6	414.8	105900.	19140.
Stddev	.27	1.2	.5	.8	330.	16.
%RSD	.5176	.2297	.1847	.1845	.3116	.0836

#1	53.13	505.7	262.1	414.0	105900.	19130.
#2	52.93	505.3	261.6	414.8	106200.	19140.
#3	52.59	503.5	261.2	415.5	105600.	19160.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	21840.	1866.	18490.	571.4	9435.	458.0
Stddev	65.	4.	25.	2.4	24.	2.2
%RSD	.2987	.1879	.1360	.4249	.2511	.4726

#1	21790.	1862.	18520.	572.9	9448.	459.8
#2	21920.	1867.	18470.	572.7	9450.	458.6
#3	21820.	1868.	18480.	568.6	9408.	455.6

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: pds 460-110715-A-1-A Acquired: 3/29/2016 18:59:37 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1796.	1940.	525.8	3514.	471.6	469.5
Stddev	12.	19.	2.8	15.	1.3	1.9
%RSD	.6418	.9635	.5280	.4358	.2708	.4008
#1	1805.	1949.	523.7	3517.	471.8	470.8
#2	1799.	1953.	524.8	3527.	472.9	470.3
#3	1783.	1919.	529.0	3497.	470.3	467.3

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	948.2	532.3	1407.	792.2
Stddev	4.0	.2	4.	24.1
%RSD	.4177	.0297	.2857	3.043
#1	949.9	532.2	1408.	769.3
#2	951.1	532.5	1410.	789.8
#3	943.7	532.3	1402.	817.3

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2868.1	31572.	5021.1
Stddev	17.1	183.	14.6
%RSD	.59750	.58011	.29137
#1	2852.7	31437.	5012.4
#2	2865.1	31500.	5012.9
#3	2886.6	31781.	5038.0

Sample Name: 460-110715-A-1-C MS Acquired: 3/29/2016 18:55:58 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	33060.	942.6	25.88	5723.	27.72	16190.
Stddev	138.	4.1	.36	8.	.16	65.
%RSD	.4183	.4344	1.401	.1450	.5646	.4009

#1	32990.	940.7	25.51	5723.	27.56	16120.
#2	33220.	939.7	25.90	5715.	27.87	16250.
#3	32980.	947.3	26.23	5732.	27.74	16190.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	31.22	282.2	182.0	348.3	109500.	13720.
Stddev	.08	.1	.7	.7	566.	54.
%RSD	.2706	.0506	.3579	.1947	.5168	.3928

#1	31.13	282.4	181.4	348.9	108900.	13660.
#2	31.21	282.2	182.2	348.3	110100.	13770.
#3	31.30	282.1	182.6	347.6	109600.	13730.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	16520.	1533.	9821.	360.5	8087.	158.8
Stddev	44.	4.	46.	.4	6.	1.8
%RSD	.2684	.2390	.4715	.0988	.0803	1.121

#1	16480.	1531.	9817.	360.6	8081.	160.4
#2	16570.	1537.	9869.	360.1	8086.	159.2
#3	16520.	1531.	9777.	360.7	8094.	156.9

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110715-A-1-C MS Acquired: 3/29/2016 18:55:58 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	933.5	1017.	328.5	3682.	248.2	248.6
Stddev	6.3	2.	.3	5.	1.3	.9
%RSD	.6769	.2254	.0947	.1416	.5144	.3536
#1	929.9	1015.	328.8	3678.	248.4	247.7
#2	929.8	1017.	328.3	3688.	246.8	248.4
#3	940.8	1019.	328.3	3680.	249.4	249.5

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	418.1	350.6	1940.	1220.
Stddev	1.1	1.6	7.	13.
%RSD	.2578	.4561	.3786	1.059
#1	416.9	350.4	1932.	1235.
#2	418.4	352.3	1946.	1214.
#3	419.0	349.1	1941.	1212.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2847.4	31382.	5001.4
Stddev	11.2	57.	11.3
%RSD	.39250	.18169	.22593
#1	2839.8	31352.	4994.3
#2	2842.2	31347.	4995.4
#3	2860.3	31448.	5014.4

Sample Name: 460-110981-F-1-B@4 Acquired: 3/29/2016 19:03:11 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	44390.	44.71	.9237	171.0	1.796	13720.
Stddev	145.	1.88	.1626	.6	.060	58.
%RSD	.3265	4.197	17.60	.3511	3.318	.4197
#1	44450.	46.85	1.034	170.6	1.767	13780.
#2	44490.	43.36	1.001	170.7	1.865	13730.
#3	44220.	43.90	.7369	171.7	1.757	13670.

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.9057	19.54	82.84	93.28	62130.	2136.
Stddev	.0713	.21	.55	1.01	193.	10.
%RSD	7.873	1.075	.6694	1.081	.3106	.4806
#1	.8334	19.53	82.51	94.45	62280.	2147.
#2	.9760	19.75	83.48	92.68	62200.	2133.
#3	.9078	19.33	82.53	92.73	61910.	2127.

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	8516.	851.7	567.7	44.77	380.2	1.205
Stddev	27.	3.6	2.3	.41	.6	.906
%RSD	.3214	.4261	.4027	.9058	.1594	75.15
#1	8546.	855.6	567.1	44.32	379.6	2.216
#2	8492.	851.0	570.2	44.90	380.3	.4670
#3	8511.	848.5	565.8	45.10	380.8	.9332

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Sample Name: 460-110981-F-1-B@4 Acquired: 3/29/2016 19:03:11 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.505	-.7337	102.9	320.0	27.99	3.372
Stddev	.717	1.139	1.0	1.2	.46	.098
%RSD	47.65	155.2	.9718	.3891	1.656	2.917
#1	.8039	.2918	103.7	319.8	28.17	3.475
#2	2.237	-1.959	101.8	319.0	27.46	3.279
#3	1.475	-.5335	103.2	321.4	28.33	3.362

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	12.58	64.28	1337.	955.8
Stddev	1.24	.13	2.	13.6
%RSD	9.861	.2084	.1398	1.421
#1	13.80	64.39	1339.	945.4
#2	12.62	64.33	1337.	971.2
#3	11.32	64.13	1336.	950.8

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2969.7	32295.	5204.1
Stddev	7.9	213.	77.7
%RSD	.26593	.65918	1.4929
#1	2961.5	32122.	5138.5
#2	2970.4	32232.	5183.9
#3	2977.2	32533.	5289.9

Sample Name: 460-110122-A-6-A@4 Acquired: 3/29/2016 19:06:59 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	94250.	-3.056	2.996	452.8	5.782	2986.
Stddev	317.	1.860	.178	1.6	.151	8.
%RSD	.3365	60.86	5.943	.3529	2.618	.2842

#1	93890.	-1.025	3.197	454.6	5.676	2989.
#2	94460.	-3.468	2.857	452.5	5.956	2976.
#3	94400.	-4.675	2.934	451.5	5.715	2992.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.575	98.57	187.6	54.66	F 208900.	17570.
Stddev	.216	.19	2.1	.22	513.	32.
%RSD	13.73	.1935	1.103	.4057	.2454	.1819

#1	-1.327	98.47	189.8	54.89	209500.	17560.
#2	-1.727	98.79	185.7	54.45	208500.	17600.
#3	-1.671	98.45	187.3	54.64	208900.	17540.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					200000.	
Low Limit					-150.0	

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	47190.	2820.	1158.	221.1	111.9	.7389
Stddev	174.	9.	3.	.6	.8	2.288
%RSD	.3682	.3040	.2614	.2834	.7311	309.7

#1	47280.	2822.	1162.	221.7	111.0	-1.903
#2	46990.	2811.	1156.	221.1	112.6	2.023
#3	47300.	2828.	1157.	220.5	112.2	2.097

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110122-A-6-A@4 Acquired: 3/29/2016 19:06:59 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.445	-1.186	186.1	530.8	73.14	4.814
Stddev	1.949	1.643	1.0	.7	1.09	.192
%RSD	79.71	138.5	.5450	.1248	1.496	3.984
#1	.5939	-.8295	186.7	531.5	74.07	4.823
#2	2.262	.2492	184.9	530.6	73.42	4.618
#3	4.479	-2.978	186.7	530.3	71.94	5.001

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	8.963	36.97	3277.	1002.
Stddev	.580	.12	9.	42.
%RSD	6.475	.3139	.2883	4.162
#1	8.296	37.11	3287.	1048.
#2	9.357	36.88	3273.	967.8
#3	9.235	36.93	3270.	989.7

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3008.2	32826.	5263.6
Stddev	8.9	107.	37.5
%RSD	.29557	.32470	.71314
#1	3002.5	32730.	5304.5
#2	3003.7	32941.	5230.8
#3	3018.5	32808.	5255.5

Sample Name: CCV Acquired: 3/29/2016 19:14:34 Type: QC
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	127500.	2492.	1240.	10180.	1056.	129000.
Stddev	769.	8.	7.	13.	4.	1182.
%RSD	.6027	.3319	.6019	.1277	.4017	.9160

#1	128200.	2501.	1248.	10200.	1060.	130200.
#2	127600.	2484.	1239.	10170.	1057.	128900.
#3	126700.	2490.	1234.	10180.	1052.	127900.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1283.	2575.	5123.	12800.	101800.	51830.
Stddev	3.	7.	31.	98.	668.	245.
%RSD	.2651	.2628	.6016	.7666	.6568	.4734

#1	1286.	2581.	5157.	12860.	102500.	52000.
#2	1283.	2574.	5115.	12860.	101500.	51940.
#3	1279.	2568.	5098.	12690.	101200.	51550.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	126800.	5226.	127200.	2541.	7582.	1015.
Stddev	965.	42.	692.	4.	15.	5.
%RSD	.7614	.8105	.5436	.1637	.1998	.4470

#1	127800.	5267.	127700.	2546.	7597.	1020.
#2	126700.	5228.	127500.	2538.	7581.	1014.
#3	125900.	5182.	126400.	2539.	7567.	1012.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 3/29/2016 19:14:34 Type: QC
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2491.	2494.	2588.	2500.	998.7	2537.
Stddev	9.	9.	19.	2.	5.0	2.
%RSD	.3767	.3803	.7209	.0898	.4959	.0729

#1	2502.	2497.	2604.	2500.	1003.	2538.
#2	2488.	2483.	2594.	2497.	993.5	2535.
#3	2484.	2502.	2568.	2501.	999.1	2537.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1018.	5231.	10120.	9741.
Stddev	2.	28.	83.	96.
%RSD	.2446	.5324	.8205	.9833

#1	1020.	5237.	10210.	9654.
#2	1020.	5255.	10070.	9844.
#3	1015.	5201.	10070.	9727.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2713.0	29652.	4911.9
Stddev	14.1	285.	54.2
%RSD	.51860	.96000	1.1035

#1	2725.4	29325.	4849.9
#2	2716.0	29840.	4950.7
#3	2697.7	29792.	4935.0

Sample Name: CCB Acquired: 3/29/2016 19:18:16 Type: QC
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.272	-.1965	.1356	.1451	-.0129	26.27
Stddev	3.355	.4945	.2816	.0986	.0134	26.21
%RSD	147.6	251.6	207.7	68.00	103.6	99.76

#1	-1.430	.1448	-.0284	.2112	-.0061	8.121
#2	5.111	.0292	.4608	.1923	-.0284	56.32
#3	3.136	-.7636	-.0256	.0317	-.0043	14.38

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0301	-.0780	.9280	1.893	17.13	8.302
Stddev	.0239	.0405	1.717	2.748	25.90	14.34
%RSD	79.60	51.88	185.0	145.2	151.2	172.7

#1	.0415	-.1095	-.7215	.5853	5.799	-4.665
#2	.0026	-.0324	2.705	5.051	46.77	23.70
#3	.0461	-.0921	.8000	.0422	-1.169	5.869

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	21.00	.8645	14.00	-.0108	-.0687	.3269
Stddev	26.35	1.316	6.87	.2506	.7658	1.650
%RSD	125.5	152.3	49.07	2329.	1114.	504.6

#1	4.537	.1287	20.10	.2666	.2630	1.259
#2	51.39	2.384	6.555	-.0780	-.9445	-1.578
#3	7.068	.0806	15.36	-.2208	.4752	1.300

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 3/29/2016 19:18:16 Type: QC
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.5724	.8878	.2180	.0573	.7754	.7037
Stddev	1.415	.2382	.3235	.0675	.7488	.5324
%RSD	247.2	26.83	148.4	117.8	96.57	75.66
#1	2.162	1.021	-.0609	-.0035	1.639	.9304
#2	-.5489	1.030	.5726	.1298	.3838	1.085
#3	.1041	.6128	.1423	.0455	.3036	.0954

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.2746	.0672	1.856	-15.52
Stddev	.5787	.0122	2.573	14.40
%RSD	210.7	18.21	138.7	92.79
#1	.9022	.0619	.7767	-8.497
#2	-.2380	.0812	4.793	-32.08
#3	.1597	.0585	-.0026	-5.976

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2879.9	31810.	4994.9
Stddev	8.3	248.	90.3
%RSD	.28813	.77850	1.8074
#1	2870.4	31529.	4913.5
#2	2885.6	31906.	4979.3
#3	2883.7	31996.	5092.0

Sample Name: 460-110657-H-21-A@4 Acquired: 3/29/2016 19:26:11 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	36690.	7.467	.6922	263.3	2.178	5470.
Stddev	48.	1.178	.1463	.6	.160	33.
%RSD	.1297	15.77	21.13	.2458	7.343	.6010

#1	36740.	8.820	.7603	262.6	2.193	5444.
#2	36680.	6.679	.7921	263.3	2.330	5457.
#3	36640.	6.901	.5243	263.9	2.011	5507.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.2082	25.93	53.20	95.09	57780.	2953.
Stddev	.0622	.09	.14	.16	51.	14.
%RSD	29.88	.3632	.2626	.1631	.0876	.4801

#1	-.1533	25.86	53.14	95.06	57750.	2952.
#2	-.1955	26.04	53.10	94.94	57840.	2968.
#3	-.2757	25.89	53.35	95.25	57760.	2940.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	8032.	1186.	2033.	43.90	35.36	.2162
Stddev	18.	3.	7.	.13	.65	.5841
%RSD	.2262	.2709	.3679	.2943	1.833	270.2

#1	8011.	1183.	2026.	44.03	35.75	.1981
#2	8041.	1186.	2041.	43.77	34.61	-.3586
#3	8044.	1189.	2032.	43.90	35.71	.8091

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110657-H-21-A@4 Acquired: 3/29/2016 19:26:11 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.109	-.3954	69.24	112.8	9.721	1.729
Stddev	3.287	.1110	1.27	.8	.262	.137
%RSD	296.4	28.08	1.830	.6864	2.692	7.911
#1	4.835	-.4026	68.89	111.9	9.829	1.731
#2	-.1285	-.5027	68.19	113.3	9.911	1.592
#3	-1.379	-.2809	70.65	113.2	9.422	1.865

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	7.306	31.99	891.2	728.6
Stddev	.576	.19	2.7	9.2
%RSD	7.881	.5783	.3019	1.261
#1	6.795	32.14	891.1	722.5
#2	7.930	32.05	894.0	739.1
#3	7.193	31.78	888.6	724.1

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2966.0	33250.	5218.8
Stddev	7.5	104.	47.1
%RSD	.25184	.31348	.90259
#1	2974.6	33341.	5185.5
#2	2962.1	33272.	5272.7
#3	2961.3	33136.	5198.2

Sample Name: 460-110657-G-43-A@4 Acquired: 3/29/2016 19:33:50 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	51190.	8.511	.9493	190.8	2.057	4361.
Stddev	146.	2.641	.1871	.3	.084	23.
%RSD	.2852	31.03	19.71	.1770	4.067	.5235

#1	51180.	11.52	1.127	191.2	2.059	4368.
#2	51340.	6.574	.9668	190.7	1.973	4336.
#3	51050.	7.440	.7540	190.5	2.140	4380.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.3376	24.94	55.85	68.80	60500.	2411.
Stddev	.1487	.31	.76	.22	94.	5.
%RSD	44.04	1.240	1.354	.3234	.1551	.2183

#1	-.5084	25.06	56.45	68.96	60520.	2406.
#2	-.2674	24.59	55.00	68.55	60400.	2410.
#3	-.2371	25.18	56.10	68.90	60580.	2417.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	8152.	2543.	1755.	43.51	46.54	.6856
Stddev	38.	4.	5.	.26	.31	2.481
%RSD	.4624	.1399	.2962	.5947	.6754	361.8

#1	8185.	2545.	1749.	43.27	46.18	.5135
#2	8111.	2539.	1756.	43.78	46.74	3.248
#3	8160.	2546.	1759.	43.49	46.70	-1.705

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110657-G-43-A@4 Acquired: 3/29/2016 19:33:50 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.498	-1.877	84.89	113.4	8.582	1.452
Stddev	1.323	1.413	.66	.6	.384	.186
%RSD	88.36	75.26	.7782	.4894	4.468	12.77

#1	3.025	-2.641	84.84	113.7	8.274	1.645
#2	.6856	-.2469	84.25	113.7	8.460	1.438
#3	.7828	-2.744	85.57	112.7	9.012	1.274

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	8.085	27.13	991.8	779.8
Stddev	.712	.05	1.2	33.7
%RSD	8.804	.1754	.1234	4.318

#1	8.492	27.08	992.5	741.0
#2	7.263	27.14	990.3	796.9
#3	8.500	27.17	992.4	801.5

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2965.2	32172.	5154.5
Stddev	20.2	160.	68.0
%RSD	.68131	.49737	1.3192

#1	2949.8	31995.	5102.4
#2	2957.7	32216.	5129.6
#3	2988.1	32305.	5231.4

Sample Name: 460-110703-A-2-B@4 Acquired: 3/29/2016 19:41:28 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	52320.	62.84	2.224	163.0	4.915	4553.
Stddev	145.	1.03	.166	.7	.144	14.
%RSD	.2776	1.642	7.475	.4058	2.939	.2975

#1	52350.	61.68	2.378	163.6	4.938	4540.
#2	52460.	63.21	2.048	163.1	4.760	4567.
#3	52170.	63.63	2.247	162.3	5.047	4553.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.267	21.42	315.6	26.51	F 204800.	9554.
Stddev	.038	.22	.5	.40	455.	53.
%RSD	3.005	1.009	.1704	1.499	.2223	.5518

#1	-1.311	21.24	315.0	26.76	205100.	9560.
#2	-1.242	21.66	316.1	26.72	205100.	9603.
#3	-1.248	21.35	315.7	26.05	204300.	9498.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					200000.	
Low Limit					-150.0	

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7256.	1020.	19.60	48.08	76.88	-.0948
Stddev	.	3.	6.46	.50	.76	.9472
%RSD	.0046	.2892	32.97	1.031	.9836	999.5

#1	7256.	1017.	25.69	48.65	76.07	-.6161
#2	7256.	1023.	12.82	47.74	77.57	-.6668
#3	7255.	1020.	20.29	47.85	77.01	.9985

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110703-A-2-B@4 Acquired: 3/29/2016 19:41:28 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.376	-4.830	363.2	245.6	41.07	2.664
Stddev	2.559	.357	1.8	1.6	.59	.096
%RSD	58.48	7.399	.5052	.6709	1.428	3.610
#1	4.921	-4.992	361.1	247.0	40.40	2.647
#2	1.588	-4.421	364.0	245.9	41.39	2.767
#3	6.618	-5.078	364.4	243.8	41.43	2.577

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	8.315	23.64	1143.	1078.
Stddev	.082	.06	4.	2.
%RSD	.9864	.2486	.3506	.1920
#1	8.223	23.58	1146.	1076.
#2	8.380	23.69	1144.	1080.
#3	8.342	23.64	1138.	1078.

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3101.9	33875.	5481.4
Stddev	17.2	223.	7.3
%RSD	.55334	.65884	.13353
#1	3082.8	33630.	5482.3
#2	3107.0	33928.	5488.2
#3	3116.0	34068.	5473.6

Sample Name: 460-110703-A-3-B@4 Acquired: 3/29/2016 19:45:16 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	59920.	60.22	2.873	221.7	6.098	5744.
Stddev	284.	.41	.471	.4	.038	17.
%RSD	.4740	.6797	16.39	.1822	.6193	.2936

#1	59850.	60.22	3.069	221.5	6.128	5726.
#2	59680.	60.63	3.214	222.1	6.056	5758.
#3	60230.	59.81	2.336	221.4	6.112	5749.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.235	21.01	366.8	26.90	F 240400.	14690.
Stddev	.133	.07	.9	.14	587.	53.
%RSD	10.73	.3185	.2454	.5368	.2442	.3622

#1	-1.142	20.97	366.9	26.82	239700.	14660.
#2	-1.386	21.09	367.5	27.06	240900.	14650.
#3	-1.175	20.97	365.8	26.81	240500.	14750.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					200000.	
Low Limit					-150.0	

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	8250.	1346.	28.09	65.16	81.58	.1636
Stddev	34.	6.	1.35	.36	1.57	.6818
%RSD	.4063	.4386	4.812	.5506	1.920	416.8

#1	8236.	1341.	29.42	65.51	83.18	.2763
#2	8289.	1352.	26.72	65.16	80.05	.7820
#3	8226.	1344.	28.13	64.80	81.49	-.5676

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110703-A-3-B@4 Acquired: 3/29/2016 19:45:16 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.483	-6.229	451.0	322.2	53.06	3.092
Stddev	.702	1.651	1.5	.7	.32	.080
%RSD	20.15	26.50	.3339	.2115	.5981	2.587
#1	2.683	-8.134	449.7	322.8	53.22	3.100
#2	3.766	-5.213	452.7	322.3	52.69	3.168
#3	3.999	-5.342	450.5	321.4	53.26	3.008

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	8.124	36.83	1240.	1240.
Stddev	.323	.02	2.	25.
%RSD	3.975	.0629	.1223	2.029
#1	8.442	36.81	1238.	1259.
#2	7.796	36.86	1239.	1211.
#3	8.135	36.83	1241.	1250.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3195.9	34984.	5660.1
Stddev	2.9	148.	14.9
%RSD	.09180	.42392	.26247
#1	3196.0	35139.	5658.4
#2	3198.8	34844.	5675.7
#3	3192.9	34970.	5646.1

Sample Name: 460-110703-A-5-B@4 Acquired: 3/29/2016 19:52:52 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	54300.	59.18	2.716	260.0	5.206	4381.
Stddev	211.	2.46	.203	1.3	.058	15.
%RSD	.3891	4.151	7.494	.5149	1.115	.3381
#1	54540.	62.01	2.917	261.2	5.257	4398.
#2	54180.	57.97	2.510	260.1	5.143	4370.
#3	54180.	57.57	2.721	258.6	5.219	4376.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.8650	16.68	259.2	28.96	172300.	9278.
Stddev	.1576	.18	1.6	.41	1057.	17.
%RSD	18.22	1.100	.6035	1.431	.6133	.1842
#1	-.6981	16.50	260.5	29.41	173500.	9265.
#2	-1.011	16.68	257.5	28.86	172100.	9297.
#3	-.8858	16.86	259.5	28.60	171400.	9270.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7432.	1235.	28.27	53.16	76.24	.0805
Stddev	57.	2.	2.96	.31	.30	.3147
%RSD	.7612	.1936	10.49	.5815	.3898	390.8
#1	7497.	1238.	25.56	53.02	75.96	.2730
#2	7404.	1236.	31.44	52.95	76.20	.2512
#3	7395.	1233.	27.80	53.52	76.55	-.2826

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110703-A-5-B@4 Acquired: 3/29/2016 19:52:52 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.488	-4.704	293.2	248.0	40.25	2.652
Stddev	4.675	1.017	1.5	.4	.22	.236
%RSD	134.0	21.62	.5095	.1759	.5568	8.907
#1	5.871	-5.189	294.9	248.1	40.50	2.645
#2	6.492	-3.535	292.1	248.4	40.20	2.892
#3	-1.898	-5.387	292.6	247.5	40.06	2.420

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	7.460	25.10	1061.	1081.
Stddev	.281	.26	8.	24.
%RSD	3.771	1.041	.7315	2.222
#1	7.328	25.05	1070.	1096.
#2	7.269	25.38	1058.	1094.
#3	7.783	24.86	1056.	1053.

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3228.1	35106.	5586.2
Stddev	11.4	248.	43.2
%RSD	.35355	.70776	.77261
#1	3217.4	34895.	5608.8
#2	3226.7	35044.	5613.4
#3	3240.1	35380.	5536.4

Sample Name: 460-110703-A-6-B@4 Acquired: 3/29/2016 19:56:39 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	59410.	51.42	2.335	245.7	5.867	5633.
Stddev	93.	2.36	.082	.5	.220	37.
%RSD	.1564	4.579	3.501	.1940	3.746	.6485

#1	59400.	51.42	2.242	245.7	5.647	5607.
#2	59330.	53.77	2.395	246.1	6.087	5675.
#3	59510.	49.06	2.369	245.2	5.867	5618.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.5800	20.63	299.4	26.65	190500.	10470.
Stddev	.1768	.01	2.9	.16	887.	29.
%RSD	30.49	.0584	.9539	.6081	.4657	.2815

#1	-.3796	20.63	296.5	26.61	189700.	10500.
#2	-.7142	20.62	302.2	26.51	191400.	10470.
#3	-.6463	20.64	299.7	26.83	190400.	10440.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	8849.	1359.	44.10	61.74	92.36	-.0998
Stddev	14.	6.	9.19	.22	.53	.1296
%RSD	.1603	.4668	20.85	.3518	.5705	129.8

#1	8835.	1358.	54.49	61.96	92.27	-.2493
#2	8863.	1366.	37.03	61.75	92.92	-.0187
#3	8847.	1353.	40.78	61.53	91.88	-.0315

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110703-A-6-B@4 Acquired: 3/29/2016 19:56:39 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.707	-4.702	330.1	269.4	48.68	2.557
Stddev	1.290	.874	2.0	1.1	1.29	.061
%RSD	47.65	18.58	.5976	.4042	2.647	2.394
#1	1.356	-4.376	330.0	269.0	47.86	2.610
#2	2.839	-4.039	332.1	270.6	48.01	2.490
#3	3.926	-5.692	328.2	268.5	50.16	2.571

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	8.308	25.26	1144.	1136.
Stddev	.626	.13	3.	29.
%RSD	7.541	.5053	.2559	2.565
#1	9.019	25.38	1141.	1169.
#2	8.068	25.26	1146.	1114.
#3	7.837	25.13	1146.	1125.

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3270.2	35635.	5665.2
Stddev	2.8	245.	13.5
%RSD	.08512	.68691	.23822
#1	3267.8	35626.	5650.2
#2	3269.6	35395.	5669.0
#3	3273.3	35884.	5676.3

Sample Name: 460-110703-A-7-B@4 Acquired: 3/29/2016 20:00:29 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	51150.	40.30	1.685	242.9	4.555	6254.
Stddev	123.	1.95	.256	.5	.087	58.
%RSD	.2409	4.833	15.20	.2138	1.918	.9229

#1	51010.	42.42	1.946	243.3	4.528	6212.
#2	51250.	38.59	1.435	242.3	4.653	6230.
#3	51190.	39.90	1.673	243.1	4.484	6320.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.3143	13.51	204.0	25.99	136100.	8267.
Stddev	.0953	.03	.8	.06	276.	59.
%RSD	30.33	.2445	.4160	.2444	.2027	.7129

#1	-.4197	13.52	203.5	25.99	135900.	8217.
#2	-.2892	13.47	203.5	25.92	136400.	8251.
#3	-.2340	13.53	205.0	26.05	136100.	8332.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7260.	1263.	58.82	46.57	70.25	.3857
Stddev	43.	4.	10.20	.14	.32	.7771
%RSD	.5969	.3113	17.35	.3047	.4569	201.5

#1	7227.	1260.	49.65	46.65	69.99	.5061
#2	7244.	1263.	69.81	46.40	70.16	1.096
#3	7309.	1268.	57.00	46.65	70.61	-.4446

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110703-A-7-B@4 Acquired: 3/29/2016 20:00:29 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.153	-5.355	224.9	209.8	39.05	2.262
Stddev	2.461	2.044	1.7	.2	.39	.121
%RSD	59.25	38.18	.7761	.1137	1.004	5.363
#1	3.554	-3.007	224.3	209.7	39.34	2.285
#2	6.859	-6.313	223.5	209.6	38.60	2.131
#3	2.048	-6.744	226.8	210.0	39.21	2.370

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	8.751	29.61	948.8	1116.
Stddev	.365	.07	1.5	25.
%RSD	4.174	.2460	.1557	2.214
#1	9.173	29.57	947.6	1137.
#2	8.545	29.57	950.5	1121.
#3	8.536	29.70	948.5	1089.

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3245.6	35614.	5668.9
Stddev	7.4	117.	26.6
%RSD	.22832	.32748	.46985
#1	3241.4	35714.	5687.6
#2	3254.2	35642.	5680.7
#3	3241.3	35486.	5638.4

Sample Name: CCV Acquired: 3/29/2016 20:04:18 Type: QC
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	127300.	2502.	1230.	10190.	1068.	128500.
Stddev	344.	12.	3.	9.	2.	518.
%RSD	.2699	.4819	.2555	.0850	.2194	.4030

#1	127600.	2516.	1233.	10200.	1067.	127900.
#2	127000.	2494.	1231.	10180.	1066.	128700.
#3	127200.	2495.	1227.	10180.	1070.	128900.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1290.	2597.	5095.	12840.	100700.	52200.
Stddev	1.	3.	4.	30.	241.	45.
%RSD	.0958	.1192	.0807	.2371	.2396	.0871

#1	1291.	2600.	5092.	12870.	100800.	52160.
#2	1289.	2594.	5100.	12810.	100800.	52190.
#3	1289.	2596.	5093.	12850.	100400.	52250.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	125900.	5220.	127100.	2544.	7566.	1027.
Stddev	106.	23.	315.	4.	17.	5.
%RSD	.0842	.4435	.2475	.1728	.2185	.5335

#1	125800.	5193.	127300.	2549.	7583.	1031.
#2	126000.	5235.	126700.	2543.	7566.	1030.
#3	125900.	5231.	127200.	2541.	7550.	1021.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 3/29/2016 20:04:18 Type: QC
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2510.	2497.	2583.	2478.	999.4	2555.
Stddev	20.	11.	9.	2.	4.1	3.
%RSD	.7899	.4510	.3638	.0809	.4115	.1202

#1	2531.	2509.	2573.	2481.	1004.	2558.
#2	2507.	2488.	2583.	2478.	998.8	2555.
#3	2491.	2493.	2592.	2477.	995.6	2551.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1023.	5257.	10040.	9658.
Stddev	4.	12.	31.	46.
%RSD	.3816	.2356	.3102	.4712

#1	1025.	5258.	10040.	9687.
#2	1026.	5244.	10000.	9606.
#3	1019.	5269.	10070.	9681.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2729.0	30070.	4949.0
Stddev	13.1	251.	31.6
%RSD	.47906	.83577	.63874

#1	2738.6	30340.	4984.2
#2	2734.3	30025.	4939.6
#3	2714.2	29843.	4923.1

Sample Name: 460-110703-A-8-B@4 Acquired: 3/29/2016 20:15:56 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	55790.	66.42	2.609	286.9	5.440	6413.
Stddev	108.	.69	.623	1.1	.105	52.
%RSD	.1937	1.037	23.88	.3949	1.925	.8119

#1	55910.	65.69	3.211	286.7	5.430	6378.
#2	55720.	67.06	2.648	285.8	5.341	6388.
#3	55730.	66.50	1.967	288.0	5.549	6473.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.3895	18.12	236.6	33.41	142900.	9469.
Stddev	.0963	.12	1.0	.37	747.	31.
%RSD	24.73	.6630	.4285	1.119	.5229	.3318

#1	.4224	18.25	236.1	33.79	142700.	9454.
#2	.4651	18.01	236.0	33.05	142200.	9505.
#3	.2810	18.11	237.8	33.38	143700.	9447.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	8335.	1352.	78.16	55.90	79.92	-1.081
Stddev	64.	7.	4.65	.53	.31	.771
%RSD	.7655	.4822	5.948	.9472	.3932	71.31

#1	8318.	1347.	81.79	55.41	80.19	-1.575
#2	8281.	1350.	72.92	55.83	79.57	-1.477
#3	8405.	1359.	79.79	56.46	80.01	-.1928

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110703-A-8-B@4 Acquired: 3/29/2016 20:15:56 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.1796	-2.629	251.3	249.8	47.53	2.397
Stddev	1.361	1.926	1.6	1.4	.79	.016
%RSD	758.2	73.25	.6354	.5628	1.653	.6457

#1	-1.146	-4.066	249.7	249.1	48.41	2.391
#2	1.574	-3.800	251.3	248.8	47.28	2.385
#3	.1107	-3.680	252.9	251.4	46.90	2.415

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	8.440	31.92	952.9	1169.
Stddev	1.327	.07	4.2	6.
%RSD	15.72	.2082	.4451	.5545

#1	8.956	31.93	955.2	1175.
#2	9.432	31.86	948.0	1162.
#3	6.933	31.99	955.5	1170.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3228.3	35351.	5547.6
Stddev	10.4	199.	40.4
%RSD	.32090	.56189	.72842

#1	3238.0	35458.	5548.1
#2	3229.7	35473.	5587.8
#3	3217.4	35122.	5507.0

Sample Name: 460-110703-A-11-B@4 Acquired: 3/29/2016 20:27:16 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	54950.	64.96	2.541	144.6	4.569	5546.
Stddev	291.	2.34	.457	.5	.115	29.
%RSD	.5303	3.596	17.99	.3257	2.524	.5303
#1	55270.	67.17	3.068	145.0	4.684	5563.
#2	54870.	62.52	2.301	144.7	4.453	5512.
#3	54700.	65.20	2.254	144.1	4.570	5563.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.1686	15.87	318.2	29.16	170300.	13580.
Stddev	.2114	.50	2.1	.37	738.	73.
%RSD	125.4	3.166	.6708	1.260	.4333	.5393
#1	-.1486	15.88	320.6	29.43	171200.	13660.
#2	.0322	16.36	316.8	29.31	169800.	13580.
#3	-.3892	15.36	317.1	28.74	170100.	13510.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	10020.	647.0	58.84	46.08	85.35	.9645
Stddev	45.	1.5	3.21	.32	.76	1.428
%RSD	.4514	.2311	5.451	.6917	.8906	148.0
#1	10070.	647.5	61.64	45.98	84.89	2.079
#2	9977.	645.4	55.34	46.44	86.23	1.459
#3	10030.	648.3	59.55	45.83	84.94	-.6446

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110703-A-11-B@4 Acquired: 3/29/2016 20:27:16 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.027	-5.040	290.4	253.7	82.37	4.223
Stddev	2.809	2.024	1.6	.2	.85	.146
%RSD	69.74	40.16	.5498	.0707	1.033	3.456
#1	2.773	-4.767	289.6	253.5	83.24	4.345
#2	2.064	-3.166	289.3	253.8	81.54	4.061
#3	7.245	-7.186	292.2	253.8	82.32	4.264

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	8.376	26.22	1215.	1299.
Stddev	.903	.12	5.	19.
%RSD	10.79	.4559	.3855	1.474
#1	9.378	26.29	1219.	1281.
#2	7.625	26.29	1214.	1296.
#3	8.123	26.08	1210.	1319.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3030.9	33099.	5235.0
Stddev	28.7	467.	64.7
%RSD	.94617	1.4124	1.2356
#1	2997.9	32574.	5169.1
#2	3046.3	33471.	5298.4
#3	3048.7	33251.	5237.4

Sample Name: 460-110703-A-12-B@4 Acquired: 3/29/2016 20:31:03 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	48730.	77.63	2.464	250.8	5.312	3759.
Stddev	77.	.38	.185	.7	.036	13.
%RSD	.1584	.4883	7.524	.2772	.6725	.3412
#1	48810.	77.52	2.536	250.0	5.278	3745.
#2	48720.	78.05	2.602	251.3	5.310	3769.
#3	48650.	77.32	2.253	251.2	5.349	3764.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.3290	18.17	268.7	37.90	140500.	12330.
Stddev	.1233	.31	1.0	.24	239.	19.
%RSD	37.46	1.710	.3793	.6216	.1699	.1557
#1	.2921	17.82	267.6	37.89	140300.	12340.
#2	.2284	18.27	269.6	37.67	140800.	12330.
#3	.4665	18.42	268.9	38.14	140400.	12300.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	8776.	1310.	100.9	50.06	82.36	2.201
Stddev	43.	3.	2.3	.08	.02	1.224
%RSD	.4956	.1947	2.283	.1616	.0193	55.63
#1	8773.	1307.	99.56	50.01	82.37	1.084
#2	8820.	1309.	99.56	50.02	82.35	2.007
#3	8734.	1312.	103.5	50.15	82.35	3.510

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110703-A-12-B@4 Acquired: 3/29/2016 20:31:03 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.841	-3.815	233.4	261.1	76.54	2.524
Stddev	1.241	.674	1.8	1.8	.12	.283
%RSD	67.45	17.66	.7713	.7059	.1557	11.22
#1	3.182	-4.588	232.0	259.4	76.53	2.603
#2	1.606	-3.355	232.9	260.9	76.66	2.759
#3	.7330	-3.501	235.4	263.0	76.42	2.210

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	8.718	23.96	835.1	1227.
Stddev	.663	.05	.7	27.
%RSD	7.607	.2060	.0817	2.224
#1	8.868	23.93	834.6	1250.
#2	7.992	24.02	835.9	1197.
#3	9.293	23.93	834.9	1233.

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3261.1	35414.	5661.5
Stddev	12.2	88.	11.9
%RSD	.37391	.24930	.20972
#1	3257.1	35312.	5673.6
#2	3274.8	35473.	5660.9
#3	3251.5	35456.	5649.9

Sample Name: 460-110715-A-2-A@4 Acquired: 3/29/2016 20:34:51 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	22010.	44.59	3.648	1160.	1.118	9999.
Stddev	34.	1.08	.556	2.	.132	11.
%RSD	.1550	2.413	15.25	.1351	11.81	.1068

#1	21990.	43.94	3.008	1162.	.9686	10010.
#2	22050.	44.01	3.914	1158.	1.163	9991.
#3	21990.	45.83	4.021	1160.	1.220	9995.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.515	27.70	88.79	180.8	133600.	1158.
Stddev	.052	.18	.33	1.1	189.	31.
%RSD	1.157	.6601	.3770	.5919	.1416	2.646

#1	4.575	27.90	88.77	181.8	133400.	1191.
#2	4.482	27.65	88.46	179.7	133600.	1150.
#3	4.488	27.55	89.13	181.0	133800.	1131.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5561.	1162.	72.78	108.8	6076.	5.441
Stddev	14.	4.	5.91	.3	4.	1.210
%RSD	.2460	.3190	8.113	.2503	.0648	22.23

#1	5554.	1166.	66.90	108.5	6072.	6.733
#2	5553.	1159.	72.73	109.0	6080.	5.255
#3	5577.	1160.	78.71	109.0	6075.	4.335

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110715-A-2-A@4 Acquired: 3/29/2016 20:34:51 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.598	-3.346	63.07	1851.	1.523	4.005
Stddev	2.214	1.565	.75	3.	.465	.028
%RSD	85.21	46.79	1.192	.1639	30.53	.6869
#1	.1028	-1.565	63.25	1848.	1.000	4.003
#2	3.365	-4.506	62.24	1853.	1.680	3.978
#3	4.326	-3.965	63.71	1853.	1.890	4.033

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	59.87	58.16	739.2	766.8
Stddev	.27	.07	2.3	18.3
%RSD	.4436	.1277	.3062	2.385
#1	60.14	58.08	736.7	746.4
#2	59.61	58.17	741.1	772.3
#3	59.86	58.22	739.8	781.7

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2963.9	32136.	5087.5
Stddev	3.8	116.	1.2
%RSD	.12785	.36210	.02431
#1	2960.2	32007.	5086.5
#2	2963.5	32234.	5087.1
#3	2967.8	32166.	5088.9

Sample Name: 460-111040-A-1-B@40 Acquired: 3/29/2016 20:38:38 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2419.	3.300	.4060	37.70	.1266	3137.
Stddev	19.	.520	.2985	.14	.0650	24.
%RSD	.7649	15.77	73.53	.3720	51.34	.7764
#1	2438.	3.053	.6428	37.86	.0936	3112.
#2	2402.	2.948	.0706	37.60	.0847	3160.
#3	2416.	3.898	.5044	37.65	.2015	3140.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.801	9.711	347.6	42.74	13520.	385.3
Stddev	.101	.228	.7	.32	23.	57.7
%RSD	5.586	2.348	.2135	.7419	.1688	14.97
#1	1.803	9.630	347.9	42.78	13540.	329.8
#2	1.699	9.969	348.1	43.03	13540.	444.9
#3	1.900	9.535	346.8	42.40	13500.	381.3

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1814.	386.3	214.1	172.6	263.0	-.3124
Stddev	3.	.9	7.1	.9	.3	.4178
%RSD	.1393	.2311	3.309	.4978	.1172	133.7
#1	1813.	385.5	217.4	172.9	263.2	-.7853
#2	1817.	387.3	205.9	171.6	262.7	.0066
#3	1812.	386.0	218.9	173.3	263.2	-.1584

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111040-A-1-B@40 Acquired: 3/29/2016 20:38:38 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-3.250	.9599	19.45	1983.	1.879	5.436
Stddev	1.513	1.733	.61	5.	.247	.197
%RSD	46.56	180.5	3.147	.2392	13.15	3.631
#1	-3.442	2.893	19.99	1988.	1.706	5.640
#2	-1.650	.4423	18.79	1983.	1.770	5.423
#3	-4.659	-.4553	19.57	1979.	2.162	5.246

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	4.626	9.331	220.5	67.14
Stddev	1.023	.069	1.1	17.48
%RSD	22.12	.7355	.4898	26.03
#1	3.453	9.394	221.7	48.21
#2	5.088	9.340	220.2	70.55
#3	5.337	9.258	219.7	82.67

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3034.7	32488.	5091.6
Stddev	8.1	75.	5.1
%RSD	.26547	.22978	.10111
#1	3034.6	32497.	5095.8
#2	3026.7	32409.	5093.1
#3	3042.8	32557.	5085.9

Sample Name: 460-110812-E-29-C MS Acquired: 3/29/2016 20:46:19 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	20960.	894.2	24.15	1046.	26.89	11160.
Stddev	90.	.8	.50	.	.14	28.
%RSD	.4296	.0934	2.063	.0457	.5204	.2473
#1	20950.	893.6	24.71	1046.	26.78	11170.
#2	20870.	893.8	23.75	1045.	26.83	11180.
#3	21050.	895.1	23.99	1046.	27.05	11130.

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	24.06	276.1	147.0	170.7	93300.	11070.
Stddev	.10	.5	.9	.3	341.	92.
%RSD	.4169	.1767	.6072	.1803	.3656	.8327
#1	23.99	275.9	146.4	171.0	93020.	11000.
#2	24.03	275.7	146.6	170.4	93190.	11030.
#3	24.18	276.7	148.0	170.7	93680.	11170.

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	13530.	1638.	9431.	336.3	259.8	167.4
Stddev	9.	6.	14.	.4	1.0	.9
%RSD	.0687	.3358	.1464	.1076	.3982	.5541
#1	13520.	1642.	9417.	335.9	258.6	166.5
#2	13530.	1641.	9431.	336.5	260.7	167.3
#3	13540.	1632.	9445.	336.5	260.0	168.3

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Sample Name: 460-110812-E-29-C MS Acquired: 3/29/2016 20:46:19 Type: Unk
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	892.5	960.9	299.5	303.4	230.9	240.0
Stddev	5.5	4.3	.7	1.0	.4	1.1
%RSD	.6109	.4440	.2422	.3433	.1693	.4416
#1	898.6	957.5	300.2	302.9	230.8	239.0
#2	890.7	959.4	299.5	302.7	230.5	239.8
#3	888.1	965.7	298.8	304.6	231.3	241.1

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	243.7	259.8	1281.	1207.
Stddev	.8	.9	5.	10.
%RSD	.3487	.3399	.3577	.8238
#1	244.0	260.7	1276.	1217.
#2	244.3	259.0	1281.	1208.
#3	242.7	259.8	1285.	1197.

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2991.2	32431.	5120.7
Stddev	4.5	100.	45.9
%RSD	.15188	.30939	.89599
#1	2989.6	32345.	5168.6
#2	2996.3	32407.	5116.5
#3	2987.7	32541.	5077.1

Sample Name: MB 460-359313/1-A Acquired: 3/29/2016 20:50:12 Type: QC

Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-7.860	.7706	.2248	-.0617	-.2011	25.92
Stddev	13.71	.9692	.1865	.1325	.0859	.79
%RSD	174.4	125.8	82.97	214.7	42.72	3.066

#1	3.728	1.248	.1395	-.0001	-.1973	25.02
#2	-23.00	1.408	.0962	-.2139	-.1171	26.51
#3	-4.311	-.3446	.4388	.0287	-.2888	26.24

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.1790	-.2279	.0864	.3773	-5.956	22.97
Stddev	.1136	.0866	.0480	.0403	4.657	15.18
%RSD	63.46	38.02	55.58	10.69	78.19	66.10

#1	.0723	-.3279	.1124	.3665	-9.818	19.86
#2	.1662	-.1789	.0310	.4219	-.7847	9.579
#3	.2984	-.1768	.1158	.3435	-7.265	39.46

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.6186	-.0419	2.544	.1254	-1.091	.6557
Stddev	.8160	.0145	.927	.1705	.541	.7006
%RSD	131.9	34.68	36.45	135.9	49.56	106.8

#1	1.558	-.0506	1.502	-.0526	-1.417	1.188
#2	.0878	-.0251	3.278	.2872	-1.390	-.1380
#3	.2098	-.0499	2.851	.1417	-.4671	.9171

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: MB 460-359313/1-A Acquired: 3/29/2016 20:50:12 Type: QC

Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.027	1.142	-.0109	.2547	.0691	-.3698
Stddev	1.870	1.638	.6346	.2333	.1104	.1314
%RSD	182.1	143.4	5833.	91.61	159.9	35.54

#1	-.4416	.6587	.1219	.1664	-.0088	-.3613
#2	.4805	-.1994	-.7013	.5192	.1955	-.5053
#3	-3.120	2.967	.5468	.0784	.0206	-.2428

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.3228	-.0540	.0207	-2.900
Stddev	.4077	.0257	.1348	10.32
%RSD	126.3	47.59	652.2	355.8

#1	-.4671	-.0767	.1086	8.320
#2	-.6387	-.0593	-.1346	-5.032
#3	.1374	-.0261	.0879	-11.99

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2976.5	32407.	4953.0
Stddev	5.1	218.	89.8
%RSD	.17075	.67396	1.8135

#1	2982.1	32244.	4864.5
#2	2975.2	32655.	5044.1
#3	2972.2	32321.	4950.4

Sample Name: CCV Acquired: 3/29/2016 20:54:11 Type: QC
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	126300.	2441.	1210.	10040.	1067.	127100.
Stddev	211.	8.	4.	2.	2.	479.
%RSD	.1670	.3276	.3136	.0215	.2242	.3768

#1	126000.	2446.	1210.	10040.	1064.	127200.
#2	126400.	2445.	1206.	10030.	1068.	126600.
#3	126400.	2432.	1214.	10040.	1069.	127500.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1269.	2570.	5025.	12680.	98750.	52180.
Stddev	1.	5.	15.	44.	353.	172.
%RSD	.1093	.1860	.2977	.3475	.3576	.3296

#1	1271.	2575.	5035.	12630.	98900.	51980.
#2	1270.	2567.	5008.	12720.	98350.	52280.
#3	1268.	2567.	5032.	12680.	99010.	52280.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	124000.	5171.	126200.	2502.	7426.	1011.
Stddev	361.	16.	255.	2.	9.	1.
%RSD	.2913	.3065	.2019	.0890	.1255	.0729

#1	124100.	5164.	125900.	2504.	7423.	1010.
#2	123600.	5159.	126400.	2501.	7437.	1012.
#3	124200.	5189.	126300.	2500.	7419.	1011.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 3/29/2016 20:54:11 Type: QC
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2436.	2431.	2558.	2420.	980.8	2518.
Stddev	3.	17.	8.	5.	.7	2.
%RSD	.1067	.6998	.3050	.1912	.0708	.0872

#1	2437.	2426.	2554.	2425.	980.9	2517.
#2	2438.	2450.	2554.	2420.	980.1	2521.
#3	2433.	2417.	2567.	2415.	981.5	2517.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1010.	5236.	9830.	9305.
Stddev	5.	20.	88.	166.
%RSD	.5229	.3727	.8923	1.779

#1	1013.	5216.	9900.	9283.
#2	1013.	5255.	9732.	9480.
#3	1004.	5236.	9860.	9151.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2729.8	29924.	4817.2
Stddev	6.8	215.	49.7
%RSD	.24931	.72007	1.0308

#1	2725.3	29840.	4796.2
#2	2726.5	30169.	4873.9
#3	2737.6	29763.	4781.5

Sample Name: CCB Acquired: 3/29/2016 20:57:55 Type: QC
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.3059	.8453	.0327	.8354	-.0964	26.91
Stddev	5.708	1.900	.2257	.4588	.0266	1.63
%RSD	1866.	224.8	691.1	54.93	27.65	6.047

#1	-6.192	-1.215	.0782	.3834	-.1056	26.46
#2	4.511	1.222	.2322	1.301	-.1172	28.71
#3	2.599	2.529	-.2124	.8220	-.0664	25.55

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.2726	.2261	-.0306	.2370	-4.841	-4.055
Stddev	.1238	.2634	.2424	.1389	12.57	17.61
%RSD	45.41	116.5	793.4	58.62	259.6	434.4

#1	.1886	-.0175	-.2240	.3973	-5.028	9.406
#2	.4147	.5057	.2414	.1516	7.821	2.419
#3	.2143	.1901	-.1091	.1621	-17.32	-23.99

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.1716	.0416	12.54	.3343	.0623	-.7817
Stddev	2.734	.0224	3.55	.1863	.4324	.4093
%RSD	1593.	53.78	28.30	55.74	694.1	52.36

#1	-2.567	.0219	16.38	.5179	.5616	-1.177
#2	.1808	.0370	11.87	.3395	-.1888	-.3599
#3	2.901	.0659	9.378	.1454	-.1859	-.8079

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 3/29/2016 20:57:55 Type: QC
Method: sw03182016(v13) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.7968	.1584	-.0520	.2052	.8204	.7059
Stddev	1.531	.4160	.1549	.1115	.3480	.4298
%RSD	192.1	262.7	297.9	54.36	42.41	60.88
#1	-2.564	.1771	.1131	.0789	.4218	1.053
#2	.0575	-.2667	-.1941	.2464	1.063	.8389
#3	.1162	.5646	-.0750	.2903	.9762	.2254

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.6425	-.0507	.2442	.4276
Stddev	.7245	.1070	.1554	6.122
%RSD	112.8	211.0	63.63	1432.
#1	.5550	.0483	.3902	1.539
#2	-.0343	-.0363	.2616	5.917
#3	1.407	-.1642	.0809	-6.174

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2933.0	32089.	4930.9
Stddev	4.1	201.	47.8
%RSD	.13982	.62588	.96892
#1	2936.6	32203.	4925.8
#2	2933.8	32207.	4981.1
#3	2928.5	31857.	4885.9

Sample Name: LCS 460-359313/2-A Acquired: 3/29/2016 21:31:29 Type: QC
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1920.	1763.	44.62	1890.	52.06	19090.
Stddev	11.	5.	.46	4.	.13	32.
%RSD	.5641	.2823	1.020	.1881	.2560	.1669

#1	1932.	1767.	45.03	1894.	51.93	19080.
#2	1912.	1765.	44.13	1889.	52.20	19130.
#3	1915.	1758.	44.71	1888.	52.06	19070.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	48.77	501.0	193.1	239.5	932.1	18470.
Stddev	.11	.7	.7	.4	8.4	51.
%RSD	.2162	.1348	.3572	.1487	.9037	.2785

#1	48.84	501.7	193.0	239.3	924.5	18530.
#2	48.82	501.1	193.8	239.9	930.8	18430.
#3	48.65	500.3	192.4	239.2	941.1	18450.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	18060.	503.6	18810.	489.2	477.3	471.4
Stddev	45.	.7	20.	1.0	.9	1.2
%RSD	.2479	.1427	.1067	.2142	.1966	.2531

#1	18060.	503.6	18790.	489.6	477.6	470.7
#2	18110.	504.3	18830.	490.0	478.0	470.6
#3	18020.	502.8	18800.	488.0	476.2	472.7

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: LCS 460-359313/2-A Acquired: 3/29/2016 21:31:29 Type: QC
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1782.	1912.	497.4	456.9	465.2	474.2
Stddev	3.	2.	1.2	.6	.9	.3
%RSD	.1671	.1001	.2369	.1369	.1834	.0632

#1	1786.	1911.	496.1	457.5	466.0	474.2
#2	1781.	1911.	497.8	456.3	465.4	474.0
#3	1780.	1914.	498.3	456.9	464.3	474.6

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	484.9	506.0	462.7	55.15
Stddev	.4	.6	1.6	14.87
%RSD	.0881	.1141	.3524	26.96

#1	485.3	506.3	464.0	38.06
#2	484.6	505.4	463.1	65.15
#3	484.7	506.4	460.9	62.22

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2981.2	32381.	4975.1
Stddev	7.8	127.	31.8
%RSD	.26087	.39234	.63983

#1	2989.5	32516.	5010.4
#2	2979.8	32264.	4948.6
#3	2974.1	32364.	4966.3

Sample Name: 460-111051-G-5-C MS Acquired: 3/29/2016 21:47:04 Type: Unk
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2050.	1807.	45.46	2236.	52.22	49470.
Stddev	14.	12.	.65	5.	.18	283.
%RSD	.6727	.6501	1.430	.2198	.3394	.5728
#1	2035.	1821.	45.94	2237.	52.17	49740.
#2	2053.	1803.	45.72	2230.	52.07	49500.
#3	2063.	1798.	44.72	2240.	52.41	49170.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	49.00	500.4	195.6	245.8	1637.	19790.
Stddev	.29	.9	.1	2.2	17.	158.
%RSD	.5841	.1893	.0753	.9143	1.026	.7968
#1	49.32	501.5	195.5	248.1	1635.	19840.
#2	48.90	499.8	195.5	245.7	1655.	19920.
#3	48.77	500.1	195.8	243.6	1622.	19620.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	22970.	845.2	49400.	493.0	480.9	476.1
Stddev	99.	5.4	234.	.3	1.0	4.4
%RSD	.4301	.6393	.4726	.0661	.2051	.9315
#1	23070.	850.1	49560.	492.7	480.7	481.2
#2	22970.	846.0	49510.	492.9	480.1	473.5
#3	22870.	839.4	49130.	493.3	482.0	473.6

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111051-G-5-C MS Acquired: 3/29/2016 21:47:04 Type: Unk
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1825.	1920.	499.9	469.3	484.1	480.9
Stddev	13.	7.	4.2	1.1	2.0	.2
%RSD	.7007	.3715	.8326	.2439	.4116	.0448
#1	1840.	1922.	504.1	470.0	483.2	480.7
#2	1819.	1913.	500.1	470.0	482.8	481.0
#3	1817.	1927.	495.7	468.0	486.4	481.1

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	488.7	569.2	474.7	1682.
Stddev	1.7	5.4	1.1	10.
%RSD	.3392	.9467	.2243	.6215
#1	490.5	573.6	473.9	1691.
#2	488.4	570.9	474.2	1683.
#3	487.3	563.2	475.9	1670.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2917.1	31540.	5029.1
Stddev	14.1	86.	27.6
%RSD	.48174	.27369	.54903
#1	2933.1	31591.	5049.8
#2	2906.6	31590.	5039.7
#3	2911.7	31441.	4997.7

Sample Name: miscup Acquired: 3/29/2016 21:54:27 Type: Unk
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.384	3.901	.3422	.2407	-.2559	75.21
Stddev	6.151	.237	.1139	.3793	.0615	32.46
%RSD	258.0	6.087	33.29	157.6	24.03	43.16
#1	4.707	4.020	.3373	.6772	-.2710	55.71
#2	-5.573	3.627	.4584	.0528	-.1882	57.23
#3	-6.286	4.054	.2308	-.0080	-.3084	112.7

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.5787	.2746	-.1801	-1.741	-10.03	19.92
Stddev	.0417	.1104	.1073	.337	3.68	14.07
%RSD	7.201	40.19	59.55	19.33	36.65	70.62
#1	.6264	.3857	-.2406	-1.918	-12.06	35.96
#2	.5489	.2733	-.0563	-1.951	-5.786	9.623
#3	.5609	.1650	-.2435	-1.352	-12.25	14.19

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	8.834	.1584	-3.049	.7432	-.5966	-.7385
Stddev	12.97	.5301	.890	.1616	.4360	.1395
%RSD	146.8	334.7	29.19	21.75	73.09	18.88
#1	.9579	-.1767	-3.081	.9298	-1.099	-.6614
#2	1.741	-.1177	-3.923	.6528	-.3755	-.8995
#3	23.80	.7695	-2.144	.6471	-.3154	-.6546

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: miscup Acquired: 3/29/2016 21:54:27 Type: Unk
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-4.948	5.644	.2228	-.3544	-1.745	-.2531
Stddev	1.106	.482	.4061	.0656	.111	.1543
%RSD	22.36	8.545	182.3	18.50	6.374	60.99
#1	-3.904	6.183	-.1073	-.2951	-1.708	-.0780
#2	-6.107	5.254	.0992	-.3433	-1.870	-.3695
#3	-4.831	5.496	.6763	-.4249	-1.657	-.3118

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.9080	-.0346	-.2411	-40.42
Stddev	.0806	.0243	.1991	6.71
%RSD	8.877	70.16	82.56	16.61
#1	-.8475	-.0149	-.2849	-33.89
#2	-.8770	-.0618	-.4147	-47.30
#3	-.9995	-.0273	-.0238	-40.06

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7006.0	75177.	9058.4
Stddev	34.5	6270.	751.6
%RSD	.49306	8.3397	8.2975
#1	7033.6	82417.	9926.3
#2	6967.3	71520.	8626.5
#3	7017.1	71596.	8622.3

Sample Name: 460-111135-A-11-A Acquired: 3/29/2016 21:58:30 Type: Unk

Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.589	-.0295	.5713	.0944	-.1312	55.41
Stddev	16.10	.7467	.2481	.0942	.0777	11.28
%RSD	621.6	2530.	43.43	99.76	59.23	20.36

#1	-13.93	-.1115	.6367	.1349	-.2031	45.39
#2	3.462	-.7319	.2970	.1616	-.1417	53.22
#3	18.23	.7548	.7801	-.0132	-.0488	67.63

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0924	-.0642	.1943	.3944	-3.521	-2.029
Stddev	.0346	.3524	.2174	.2832	6.301	22.15
%RSD	37.49	549.3	111.9	71.81	178.9	1092.

#1	.0591	-.0715	.1436	.4993	-7.408	19.22
#2	.0898	-.4129	.0067	.6103	3.749	-.3275
#3	.1283	.2919	.4326	.0737	-6.905	-24.98

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.166	.1052	34.15	.3920	-.7139	-.3106
Stddev	3.780	.1235	8.61	.4437	.4921	1.952
%RSD	90.72	117.4	25.20	113.2	68.93	628.6

#1	.5544	.0239	39.97	.8614	-.1515	-2.369
#2	3.851	.0444	38.21	.3352	-.9250	1.516
#3	8.094	.2474	24.26	-.0205	-1.065	-.0787

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111135-A-11-A Acquired: 3/29/2016 21:58:30 Type: Unk
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0787	.1594	-.1240	1.996	3.956	-.4106
Stddev	1.142	.5603	.1616	.082	.185	.1886
%RSD	1451.	351.4	130.4	4.110	4.671	45.92
#1	.4238	.6672	-.0707	1.903	4.146	-.3328
#2	-1.386	-.4416	.0043	2.027	3.944	-.6257
#3	.7261	.2527	-.3055	2.058	3.777	-.2734

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.2794	-.0708	-.0612	-.0119
Stddev	.6454	.0980	.1318	21.64
%RSD	231.0	138.3	215.3	181600.
#1	.9940	-.0589	-.0869	-21.47
#2	-.2614	-.1742	-.1783	21.80
#3	.1057	.0207	.0815	-.3587

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3014.6	32858.	5034.0
Stddev	10.9	312.	51.5
%RSD	.36246	.94876	1.0230
#1	3020.9	33129.	5088.9
#2	3020.9	32517.	4986.8
#3	3002.0	32927.	5026.3

Sample Name: 460-111158-A-7-A Acquired: 3/29/2016 22:02:28 Type: Unk
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	791.8	.1626	.5332	63.29	-.0133	59060.
Stddev	7.5	1.960	.5153	.85	.0511	1254.
%RSD	.9449	1205.	96.64	1.350	385.3	2.123

#1	799.5	-.1134	1.120	62.85	.0300	58340.
#2	791.2	-1.645	.1543	62.74	-.0696	58340.
#3	784.6	2.246	.3254	64.27	-.0002	60510.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0419	1.190	2.751	10.57	2157.	7347.
Stddev	.1065	.023	.431	.23	45.	60.
%RSD	254.3	1.969	15.65	2.191	2.108	.8184

#1	.1603	1.215	2.541	10.69	2127.	7399.
#2	-.0460	1.169	2.467	10.30	2134.	7360.
#3	.0114	1.184	3.247	10.71	2209.	7281.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	21530.	208.0	43200.	8.950	2.202	1.888
Stddev	498.	4.0	344.	.426	.403	1.329
%RSD	2.312	1.917	.7972	4.763	18.31	70.43

#1	21200.	205.3	43370.	9.288	2.261	2.843
#2	21280.	206.1	43430.	8.471	1.773	.3694
#3	22100.	212.6	42800.	9.090	2.573	2.450

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111158-A-7-A Acquired: 3/29/2016 22:02:28 Type: Unk
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.3404	.5244	1.223	78.99	42.38	3.891
Stddev	1.223	1.656	.143	.91	.57	.212
%RSD	359.2	315.9	11.68	1.147	1.335	5.446
#1	-0.8348	1.677	1.209	78.54	41.74	3.656
#2	.2502	-1.374	1.372	78.40	42.80	4.067
#3	1.606	1.270	1.087	80.04	42.60	3.949

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	13.25	213.0	45.47	6273.
Stddev	.24	1.9	1.21	72.
%RSD	1.824	.9063	2.657	1.147
#1	13.00	214.1	44.60	6193.
#2	13.29	214.1	44.96	6332.
#3	13.47	210.8	46.85	6294.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2902.7	31519.	5032.0
Stddev	26.2	608.	80.9
%RSD	.90299	1.9278	1.6082
#1	2911.7	31711.	4939.5
#2	2923.3	32007.	5089.9
#3	2873.2	30838.	5066.5

Sample Name: 460-111158-A-18-A Acquired: 3/29/2016 22:06:21 Type: Unk

Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	568.4	1.960	.6982	83.39	-.1499	68130.
Stddev	1.3	.522	.4425	.31	.0699	285.
%RSD	.2332	26.64	63.38	.3753	46.64	.4181

#1	567.1	1.462	.1873	83.34	-.0707	67990.
#2	568.4	1.914	.9632	83.72	-.1757	67940.
#3	569.8	2.504	.9440	83.10	-.2032	68460.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.1819	1.841	.5529	2.823	1030.	9035.
Stddev	.0776	.154	.4266	.213	5.	38.
%RSD	42.66	8.362	77.15	7.540	.4619	.4227

#1	.1682	1.984	.5413	2.618	1031.	9031.
#2	.1121	1.860	.9851	2.808	1025.	9075.
#3	.2655	1.678	.1322	3.043	1035.	8999.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	25730.	1019.	126600.	5.669	1.497	.9616
Stddev	65.	5.	678.	.318	1.051	.1078
%RSD	.2512	.4764	.5354	5.611	70.21	11.21

#1	25660.	1015.	127200.	5.439	1.735	.8473
#2	25730.	1016.	126800.	5.536	2.409	.9760
#3	25790.	1024.	125900.	6.032	.3474	1.061

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111158-A-18-A Acquired: 3/29/2016 22:06:21 Type: Unk
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.182	.9103	.8317	5.664	85.33	.0352
Stddev	6.022	.9612	.1939	.134	.13	.1644
%RSD	509.6	105.6	23.32	2.367	.1530	466.7
#1	7.818	2.019	.6341	5.787	85.20	.1491
#2	-3.936	.3972	1.022	5.521	85.46	-.1532
#3	-.3368	.3144	.8392	5.684	85.32	.1098

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1.165	299.0	24.45	8997.
Stddev	.534	1.1	.28	28.
%RSD	45.87	.3835	1.147	.3136
#1	1.535	297.8	24.60	8986.
#2	1.408	300.1	24.63	9029.
#3	.5523	299.2	24.13	8976.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2887.5	31120.	5009.7
Stddev	12.5	79.	45.9
%RSD	.43303	.25250	.91710
#1	2875.3	31141.	4958.7
#2	2886.8	31186.	5047.7
#3	2900.3	31033.	5022.8

Sample Name: CCB Acquired: 3/29/2016 22:13:57 Type: QC
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-9.393	1.004	.4865	.6593	-.1380	34.40
Stddev	2.298	1.561	.1162	.6965	.0449	11.12
%RSD	24.46	155.4	23.88	105.6	32.54	32.32
#1	-11.69	2.242	.3926	1.456	-.0937	25.93
#2	-7.095	1.521	.6164	.3565	-.1368	46.99
#3	-9.394	-.7494	.4505	.1654	-.1836	30.28

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.2522	.1584	.2410	.9794	4.527	32.29
Stddev	.1450	.2158	.3481	1.307	3.655	27.92
%RSD	57.51	136.2	144.5	133.5	80.72	86.46
#1	.4194	.3474	-.1330	.1677	2.917	60.92
#2	.1605	.2046	.5556	2.487	8.711	5.149
#3	.1767	-.0767	.3004	.2830	1.955	30.79

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	9.669	.3519	29.03	.3910	.2780	.3136
Stddev	6.472	.4802	7.70	.6689	1.885	.5908
%RSD	66.93	136.5	26.52	171.1	678.0	188.4
#1	6.268	.0503	21.98	1.074	1.693	-.2209
#2	17.13	.9056	37.24	-.2631	-1.862	.2137
#3	5.606	.0997	27.86	.3623	1.002	.9480

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 3/29/2016 22:13:57 Type: QC
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.4803	.7477	.4963	-.0405	1.006	.6219
Stddev	.3588	1.633	.1642	.2694	.592	1.141
%RSD	74.71	218.4	33.08	665.9	58.85	183.5
#1	.0856	2.607	.3525	.2546	1.573	1.833
#2	.7868	-.4513	.4612	-.2734	1.055	.4666
#3	.5685	.0874	.6752	-.1026	.3914	-.4338

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.1573	.0458	.7489	-4.159
Stddev	.4929	.0425	.8622	9.848
%RSD	313.4	92.78	115.1	236.8
#1	-.6962	.0824	.2832	-13.89
#2	-.0462	.0559	1.744	-4.391
#3	.2706	-.0008	.2196	5.803

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2954.2	32205.	4940.9
Stddev	3.1	187.	41.0
%RSD	.10433	.58129	.82993
#1	2957.4	32357.	4920.3
#2	2951.3	32261.	4988.1
#3	2953.8	31996.	4914.2

Sample Name: 460-111051-G-5-B DU Acquired: 3/29/2016 21:35:09 Type: Unk
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	109.3	1.132	.6231	350.4	-.1560	30970.
Stddev	8.9	2.697	.0378	1.6	.0753	92.
%RSD	8.145	238.3	6.063	.4486	48.27	.2955
#1	100.4	1.460	.6508	349.8	-.0691	30890.
#2	118.2	-1.714	.6385	349.3	-.2026	31070.
#3	109.2	3.649	.5801	352.2	-.1963	30960.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.1667	.8732	.5419	5.588	675.1	1484.
Stddev	.0362	.1571	.1003	.012	5.8	14.
%RSD	21.75	17.99	18.51	.2121	.8649	.9280
#1	.1249	.9097	.4951	5.594	678.6	1476.
#2	.1889	1.009	.6571	5.596	678.2	1476.
#3	.1863	.7011	.4736	5.574	668.3	1500.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4770.	356.3	31530.	2.149	.0906	-.3219
Stddev	19.	.7	40.	.234	.7280	.9078
%RSD	.4015	.2082	.1254	10.89	803.7	282.0
#1	4749.	355.9	31560.	1.985	-.7483	-.5694
#2	4774.	357.2	31490.	2.417	.5570	-1.080
#3	4787.	355.8	31550.	2.044	.4630	.6840

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111051-G-5-B DU Acquired: 3/29/2016 21:35:09 Type: Unk
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.448	2.290	-2.007	1.860	12.39	1.128
Stddev	2.598	.842	.1761	.045	.25	.031
%RSD	179.4	36.79	87.72	2.430	2.016	2.774
#1	-1.969	1.318	-.3795	1.807	12.48	1.133
#2	-3.746	2.738	-.1952	1.885	12.58	1.157
#3	1.371	2.813	-.0275	1.886	12.10	1.095

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.0598	72.19	4.465	1674.
Stddev	.5102	.07	.271	11.
%RSD	853.9	.0966	6.077	.6389
#1	-.0249	72.27	4.198	1667.
#2	.6070	72.17	4.740	1668.
#3	-.4028	72.14	4.457	1686.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2946.4	32073.	5027.1
Stddev	6.3	173.	41.5
%RSD	.21386	.54074	.82619
#1	2951.9	32172.	5072.6
#2	2947.6	31872.	4991.3
#3	2939.5	32174.	5017.2

Sample Name: 460-111051-G-5-A Acquired: 3/29/2016 21:39:08 Type: Unk
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	139.8	1.750	.7666	352.1	-.1055	30900.
Stddev	7.9	.906	.0310	.7	.1589	125.
%RSD	5.662	51.79	4.049	.2085	150.7	.4050
#1	143.2	.8239	.7738	351.3	-.2336	30750.
#2	130.8	1.791	.7935	352.4	-.1551	30970.
#3	145.4	2.635	.7326	352.7	.0724	30970.

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.1598	.7180	.1253	5.579	672.5	1483.
Stddev	.0500	.0644	.1452	.348	12.9	18.
%RSD	31.27	8.964	115.9	6.233	1.922	1.200
#1	.1342	.6634	.2189	5.191	661.2	1479.
#2	.1279	.7890	-.0420	5.862	686.6	1468.
#3	.2174	.7017	.1989	5.683	669.8	1503.

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4760.	355.0	31650.	1.947	-.6278	-.6108
Stddev	33.	1.0	127.	.187	.7599	.9756
%RSD	.6907	.2682	.4017	9.590	121.0	159.7
#1	4723.	353.9	31510.	1.740	-.7162	.2832
#2	4779.	355.7	31730.	1.999	-1.340	-.4641
#3	4780.	355.4	31730.	2.102	.1724	-1.651

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Sample Name: 460-111051-G-5-A Acquired: 3/29/2016 21:39:08 Type: Unk
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.313	1.853	.1210	1.940	11.70	1.009
Stddev	3.097	1.672	.1405	.249	.46	.113
%RSD	133.9	90.25	116.2	12.84	3.957	11.19
#1	-1.636	.1233	-.0075	2.148	11.19	.9063
#2	.3899	1.974	.2711	2.007	12.10	1.130
#3	-5.692	3.460	.0993	1.664	11.81	.9895

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.3700	72.21	4.352	1656.
Stddev	.4325	.05	.119	29.
%RSD	116.9	.0634	2.728	1.760
#1	-.1236	72.26	4.215	1680.
#2	.5506	72.17	4.414	1624.
#3	.6829	72.19	4.426	1665.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2943.8	32185.	5007.7
Stddev	6.6	147.	27.4
%RSD	.22538	.45715	.54634
#1	2936.3	32354.	5035.8
#2	2946.4	32086.	4981.1
#3	2948.8	32114.	5006.3

Sample Name: 460-110902-D-7-B DU Acquired: 3/29/2016 22:33:24 Type: Unk
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	356.8	3.415	.7187	52.52	-.0256	64920.
Stddev	1.3	1.192	.4280	.08	.0303	249.
%RSD	.3597	34.91	59.55	.1468	118.4	.3831
#1	358.0	4.539	.2572	52.45	.0048	65020.
#2	356.8	3.543	1.103	52.60	-.0558	65100.
#3	355.5	2.165	.7966	52.50	-.0258	64640.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0171	-.1743	.2715	.8038	13280.	6482.
Stddev	.0609	.0857	.0617	.2511	49.	2.
%RSD	357.3	49.19	22.71	31.24	.3672	.0287
#1	.0483	-.2493	.2961	1.047	13310.	6484.
#2	-.0723	-.1929	.3171	.5452	13310.	6482.
#3	-.0272	-.0808	.2014	.8197	13230.	6480.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	11070.	623.0	18980.	.5921	-.6336	-.2867
Stddev	38.	1.7	32.	.5230	.3268	.4808
%RSD	.3395	.2698	.1702	88.33	51.58	167.7
#1	11100.	624.3	19020.	.6106	-.2879	-.7686
#2	11070.	623.5	18980.	1.106	-.9375	-.2845
#3	11030.	621.1	18950.	.0601	-.6754	.1931

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110902-D-7-B DU Acquired: 3/29/2016 22:33:24 Type: Unk
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0235	-.1336	.8809	4.697	57.00	4.193
Stddev	1.966	1.257	.4031	.275	.38	.130
%RSD	8378.	940.7	45.75	5.864	.6716	3.089
#1	-1.156	.7451	1.098	5.002	57.43	4.324
#2	-1.161	.4276	1.129	4.624	56.69	4.065
#3	2.246	-1.574	.4159	4.466	56.89	4.190

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.5216	581.5	10.95	6284.
Stddev	.6925	1.4	.91	42.
%RSD	132.8	.2374	8.276	.6707
#1	-.2776	583.0	11.75	6236.
#2	.8983	580.8	11.14	6306.
#3	.9440	580.5	9.968	6311.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2947.0	32044.	5163.8
Stddev	8.0	318.	31.8
%RSD	.27186	.99198	.61653
#1	2941.0	31809.	5160.7
#2	2943.9	31916.	5133.7
#3	2956.1	32405.	5197.1

Sample Name: sd 460-111051-G-5-A Acquired: 3/29/2016 21:43:05 Type: Unk
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	21.72	-.0776	.4934	68.12	-.1869	6149.
Stddev	8.16	1.374	.7197	.42	.1084	11.
%RSD	37.56	1770.	145.9	.6170	57.98	.1850
#1	29.99	-1.658	-.1015	68.40	-.0618	6156.
#2	13.68	.8349	1.293	68.32	-.2532	6156.
#3	21.49	.5899	.2882	67.64	-.2457	6136.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.1258	-.0609	-.0375	1.534	136.6	289.5
Stddev	.0610	.1864	.2683	.154	6.0	20.3
%RSD	48.52	305.9	715.9	10.01	4.356	6.999
#1	.0702	.0887	-.2010	1.473	132.1	311.8
#2	.1911	-.0017	-.1836	1.420	134.5	272.2
#3	.1161	-.2698	.2721	1.709	143.4	284.5

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	937.5	71.06	6066.	.9292	-1.565	-.2571
Stddev	4.9	.22	31.	.1870	1.246	1.240
%RSD	.5218	.3027	.5117	20.12	79.61	482.2
#1	937.1	71.15	6091.	.8059	-2.596	.4724
#2	942.6	71.21	6076.	.8374	-1.919	-1.688
#3	932.9	70.81	6031.	1.144	-1.1803	.4448

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: sd 460-111051-G-5-A Acquired: 3/29/2016 21:43:05 Type: Unk
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.622	.5005	-.1516	.6236	2.075	-.0771
Stddev	2.986	.5404	.1286	.1492	.249	.1616
%RSD	113.9	108.0	84.86	23.92	12.00	209.5
#1	-3.874	-.0115	-.1275	.7939	2.269	-.0956
#2	.7868	1.065	-.2906	.5164	1.794	-.2287
#3	-4.778	.4477	-.0367	.5603	2.161	.0929

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.5443	13.83	1.204	316.1
Stddev	.1766	.03	.131	10.7
%RSD	32.45	.2376	10.84	3.375
#1	.7416	13.80	1.310	327.2
#2	.4903	13.82	1.245	305.9
#3	.4009	13.87	1.059	315.3

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3023.7	32634.	5016.2
Stddev	24.9	246.	82.3
%RSD	.82325	.75304	1.6405
#1	2996.9	32352.	4978.6
#2	3028.0	32746.	4959.5
#3	3046.1	32804.	5110.6

Sample Name: 460-110902-D-7-C MS Acquired: 3/29/2016 22:45:07 Type: Unk
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2358.	1833.	46.37	1963.	52.37	85990.
Stddev	22.	3.	.12	1.	.28	89.
%RSD	.9477	.1900	.2563	.0672	.5401	.1037
#1	2384.	1837.	46.38	1963.	52.69	86040.
#2	2347.	1831.	46.25	1964.	52.18	85890.
#3	2344.	1831.	46.48	1962.	52.23	86050.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	49.06	501.1	196.5	245.9	14450.	25300.
Stddev	.12	1.0	1.7	.6	63.	76.
%RSD	.2468	.1905	.8535	.2506	.4381	.3020
#1	48.95	500.1	195.9	245.7	14440.	25370.
#2	49.05	501.9	198.4	246.6	14520.	25220.
#3	49.19	501.4	195.2	245.4	14400.	25300.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	29660.	1137.	38760.	491.1	483.8	481.9
Stddev	38.	1.	91.	.6	1.9	1.5
%RSD	.1298	.0745	.2349	.1268	.3950	.3149
#1	29700.	1138.	38860.	491.8	485.4	480.2
#2	29670.	1136.	38680.	490.7	484.3	482.8
#3	29620.	1138.	38750.	490.7	481.7	482.9

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110902-D-7-C MS Acquired: 3/29/2016 22:45:07 Type: Unk
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1856.	1923.	501.3	468.9	543.0	487.9
Stddev	7.	11.	1.8	.8	.6	.3
%RSD	.3785	.5601	.3590	.1756	.1063	.0549
#1	1851.	1935.	500.3	469.5	542.8	487.8
#2	1864.	1916.	503.4	469.2	543.7	488.2
#3	1854.	1917.	500.2	467.9	542.6	487.7

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	490.4	1110.	486.2	6591.
Stddev	.7	3.	1.9	78.
%RSD	.1478	.3064	.3983	1.179
#1	489.6	1114.	487.9	6617.
#2	491.0	1107.	486.8	6653.
#3	490.7	1109.	484.1	6504.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2895.2	31692.	5071.5
Stddev	3.9	133.	50.1
%RSD	.13635	.41987	.98813
#1	2890.6	31558.	5033.6
#2	2897.9	31824.	5128.3
#3	2896.9	31694.	5052.7

Sample Name: pds 460-111051-G-5-A Acquired: 3/29/2016 21:50:48 Type: Unk
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2053.	1771.	45.00	2219.	50.82	48940.
Stddev	16.	7.	.42	3.	.18	127.
%RSD	.7870	.4005	.9426	.1566	.3450	.2596
#1	2060.	1779.	44.73	2223.	50.91	48980.
#2	2034.	1766.	44.79	2218.	50.62	48790.
#3	2064.	1767.	45.49	2216.	50.93	49040.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	48.19	492.4	193.3	241.5	1619.	19510.
Stddev	.19	.6	.1	.3	2.	59.
%RSD	.4022	.1303	.0636	.1144	.1169	.3048
#1	48.35	493.0	193.2	241.8	1621.	19480.
#2	48.25	491.7	193.3	241.3	1617.	19470.
#3	47.98	492.5	193.4	241.4	1619.	19580.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	22500.	830.8	50030.	485.6	473.5	462.7
Stddev	67.	1.9	78.	1.8	2.4	1.5
%RSD	.2994	.2236	.1563	.3692	.5030	.3256
#1	22560.	832.3	49940.	487.3	474.4	462.3
#2	22420.	828.7	50060.	485.8	475.3	461.4
#3	22510.	831.3	50080.	483.7	470.8	464.3

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: pds 460-111051-G-5-A Acquired: 3/29/2016 21:50:48 Type: Unk
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1795.	1904.	483.6	460.0	481.6	474.6
Stddev	4.	5.	2.3	.6	.8	.4
%RSD	.2428	.2483	.4683	.1249	.1574	.0835
#1	1799.	1909.	484.0	459.6	482.1	474.4
#2	1795.	1902.	481.2	460.7	482.0	474.3
#3	1791.	1900.	485.7	459.8	480.7	475.1

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	481.7	560.4	470.5	1778.
Stddev	.8	.1	1.7	60.
%RSD	.1571	.0222	.3714	3.383
#1	481.1	560.5	472.5	1815.
#2	482.5	560.3	469.8	1811.
#3	481.4	560.3	469.3	1709.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2894.7	31878.	5000.0
Stddev	11.8	119.	32.7
%RSD	.40897	.37375	.65316
#1	2899.5	31965.	5030.5
#2	2881.2	31928.	5003.9
#3	2903.3	31743.	4965.5

Sample Name: CCB Acquired: 3/29/2016 23:03:53 Type: QC
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-8.399	1.020	.3951	1.332	-.1377	33.22
Stddev	4.570	.819	.2789	1.711	.0536	3.96
%RSD	54.42	80.31	70.58	128.5	38.91	11.92
#1	-13.22	.9373	.4342	.1965	-.0943	37.75
#2	-7.857	1.877	.6524	3.299	-.1213	31.50
#3	-4.123	.2451	.0988	.4988	-.1976	30.41

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.2870	.1792	.0351	.8708	3.561	21.00
Stddev	.2855	.4445	.6200	.2406	7.326	24.46
%RSD	99.50	248.1	1768.	27.63	205.8	116.5
#1	.2031	.0352	-.4871	.8147	5.208	27.46
#2	.6050	.6778	.7203	1.134	9.923	41.58
#3	.0527	-.1755	-.1280	.6632	-4.449	-6.045

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.870	.1022	31.04	.6813	.2680	.1838
Stddev	6.058	.0232	6.59	.7753	2.290	.3798
%RSD	124.4	22.72	21.22	113.8	854.5	206.6
#1	-2.046	.0757	38.58	.0347	-1.981	.4204
#2	7.416	.1117	26.41	1.541	2.597	.3853
#3	9.239	.1192	28.14	.4685	.1879	-.2542

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 3/29/2016 23:03:53 Type: QC
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.5958	1.390	-.0824	.2442	1.009	.7065
Stddev	3.316	.536	.2590	.4497	.092	.4430
%RSD	556.6	38.56	314.2	184.2	9.147	62.70
#1	.8134	.9757	-.2567	-.0813	.9766	.7511
#2	1.783	1.995	-.2058	.7573	1.113	1.126
#3	-4.384	1.199	.2152	.0565	.9366	.2430

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.1459	.0227	.1832	-8.697
Stddev	.5480	.0522	.0784	11.07
%RSD	375.5	230.2	42.81	127.3
#1	-.4857	-.0082	.1783	-.7190
#2	.4282	.0830	.2639	-21.33
#3	.4954	-.0067	.1073	-4.036

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3001.6	32610.	5004.1
Stddev	17.6	242.	20.6
%RSD	.58516	.74331	.41255
#1	3011.9	32810.	5017.0
#2	3011.6	32680.	5015.1
#3	2981.3	32340.	4980.3

Sample Name: 460-111021-A-27-B Acquired: 3/29/2016 23:19:54 Type: Unk

Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	310.7	-.2611	.2572	.1386	-.0324	151.1
Stddev	17.7	.3739	.5243	.1090	.0383	23.6
%RSD	5.702	143.2	203.9	78.67	118.3	15.60

#1	331.0	-.5461	-.0308	.2023	-.0299	151.1
#2	303.0	.1622	.8623	.0127	.0046	174.7
#3	298.2	-.3993	-.0600	.2008	-.0719	127.5

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.1717	-.0563	.0533	.9068	21.63	-9.828
Stddev	.1174	.0452	.3742	.1220	9.56	37.18
%RSD	68.40	80.21	701.6	13.45	44.17	378.3

#1	.2666	-.0792	-.2872	.8519	18.74	-50.36
#2	.2080	-.0854	-.0067	1.047	32.30	22.69
#3	.0404	-.0043	.4539	.8219	13.86	-1.813

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	69.31	1.146	126.9	.3497	-.8700	-.5701
Stddev	26.67	.019	9.6	.4169	1.664	.4834
%RSD	38.48	1.670	7.592	119.2	191.3	84.79

#1	58.90	1.152	120.3	.2858	.8299	-.9818
#2	99.62	1.161	122.4	-.0317	-.9433	-.6906
#3	49.42	1.124	137.9	.7948	-2.496	-.0379

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111021-A-27-B Acquired: 3/29/2016 23:19:54 Type: Unk
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.731	.1463	-.1565	.8622	6.797	-.2502
Stddev	2.801	1.987	.2300	.4278	.109	.1274
%RSD	102.5	1358.	147.0	49.62	1.599	50.91
#1	-5.672	-.8804	-.3446	.9619	6.922	-.1032
#2	-.0954	-1.117	-.2250	1.231	6.740	-.3283
#3	-2.427	2.436	.1000	.3934	6.728	-.3190

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.1189	.3150	-.0953	48.08
Stddev	.1029	.0774	.1094	8.89
%RSD	86.55	24.59	114.8	18.49
#1	-.1796	.3857	.0056	56.08
#2	-.1769	.3269	-.0799	49.63
#3	-.0001	.2322	-.2115	38.51

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2980.8	32777.	4980.7
Stddev	10.4	233.	64.7
%RSD	.34776	.71220	1.2999
#1	2972.4	32567.	4926.1
#2	2992.4	32736.	4963.7
#3	2977.5	33028.	5052.2

Sample Name: CCV Acquired: 3/29/2016 22:10:15 Type: QC
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	123400.	2385.	1185.	9752.	1044.	125700.
Stddev	1083.	52.	23.	140.	5.	2367.
%RSD	.8783	2.197	1.904	1.439	.4563	1.884

#1	124200.	2429.	1199.	9853.	1046.	126900.
#2	123700.	2399.	1198.	9812.	1047.	127100.
#3	122200.	2327.	1159.	9592.	1038.	122900.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1239.	2509.	4902.	12690.	96320.	51320.
Stddev	20.	42.	73.	329.	1654.	427.
%RSD	1.610	1.678	1.497	2.595	1.717	.8320

#1	1255.	2542.	4956.	12860.	97490.	51560.
#2	1245.	2524.	4931.	12910.	97040.	51570.
#3	1217.	2461.	4818.	12320.	94430.	50820.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	122000.	5139.	123700.	2424.	7213.	987.5
Stddev	2423.	102.	1201.	33.	110.	17.8
%RSD	1.986	1.975	.9703	1.349	1.521	1.803

#1	123500.	5192.	124600.	2450.	7299.	1002.
#2	123300.	5203.	124200.	2435.	7250.	992.6
#3	119200.	5022.	122400.	2387.	7089.	967.7

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 3/29/2016 22:10:15 Type: QC
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2378.	2341.	2560.	2335.	950.7	2446.
Stddev	49.	50.	61.	28.	14.2	37.
%RSD	2.070	2.145	2.377	1.191	1.499	1.510

#1	2423.	2381.	2588.	2358.	963.3	2474.
#2	2385.	2357.	2602.	2344.	953.6	2460.
#3	2325.	2284.	2490.	2304.	935.2	2404.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	979.0	5197.	9593.	9286.
Stddev	16.9	66.	205.	254.
%RSD	1.722	1.263	2.134	2.733

#1	991.0	5224.	9785.	9388.
#2	986.3	5245.	9617.	9472.
#3	959.7	5122.	9378.	8997.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2801.6	30310.	4993.1
Stddev	17.6	246.	47.8
%RSD	.62685	.81317	.95692

#1	2792.9	30165.	5011.0
#2	2790.1	30172.	5029.4
#3	2821.8	30595.	4939.0

Sample Name: 460-110902-D-3-A Acquired: 3/29/2016 23:27:53 Type: Unk
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	270.4	.1610	.5506	18.15	-.2024	13790.
Stddev	11.2	.4734	.1849	.03	.1235	49.
%RSD	4.155	294.1	33.58	.1553	61.05	.3519
#1	258.5	.3585	.3739	18.15	-.1989	13840.
#2	271.8	-.3792	.5352	18.17	-.0806	13740.
#3	280.8	.5037	.7427	18.11	-.3276	13780.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.6575	.5220	.8326	16.82	537.0	2500.
Stddev	.0723	.1362	.1393	.42	6.5	27.
%RSD	10.99	26.10	16.74	2.513	1.212	1.060
#1	.7388	.4002	.7706	16.71	544.2	2531.
#2	.6334	.4967	.7351	16.46	535.2	2486.
#3	.6004	.6692	.9922	17.28	531.6	2484.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2742.	20.29	10510.	3.516	2.569	.2104
Stddev	22.	.29	51.	.218	.375	.5927
%RSD	.7905	1.431	.4841	6.206	14.61	281.7
#1	2765.	20.63	10500.	3.746	2.503	-.0514
#2	2738.	20.17	10460.	3.312	2.231	-.2063
#3	2722.	20.09	10560.	3.490	2.973	.8890

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110902-D-3-A Acquired: 3/29/2016 23:27:53 Type: Unk
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.5236	.4250	2.233	255.3	24.67	.1571
Stddev	1.261	1.955	.177	1.7	.06	.1917
%RSD	240.8	460.1	7.920	.6567	.2267	122.0
#1	.8827	1.839	2.434	256.7	24.63	.1528
#2	1.566	1.243	2.166	253.4	24.63	.3509
#3	-.8778	-1.807	2.100	255.8	24.73	-.0324

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.4380	62.86	3.922	3914.
Stddev	.3335	.20	.092	9.
%RSD	76.14	.3228	2.358	.2309
#1	.0612	62.92	3.816	3903.
#2	.5578	62.64	3.986	3921.
#3	.6952	63.03	3.965	3917.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2960.0	32212.	5014.5
Stddev	11.4	235.	17.3
%RSD	.38654	.72809	.34583
#1	2963.1	32108.	4997.3
#2	2969.5	32480.	5031.9
#3	2947.3	32047.	5014.3

Sample Name: 460-110902-D-6-A Acquired: 3/29/2016 23:39:45 Type: Unk
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	117.1	1.528	.5753	27.88	-.1002	29560.
Stddev	7.4	.843	.3918	.14	.0764	275.
%RSD	6.326	55.16	68.10	.4915	76.28	.9312
#1	125.0	1.805	.9149	27.74	-.0881	29870.
#2	116.0	.5813	.6641	27.91	-.0305	29360.
#3	110.3	2.197	.1467	28.00	-.1819	29450.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.2473	.5399	-.1796	3.745	3092.	1117.
Stddev	.0760	.1558	.0761	.149	7.	28.
%RSD	30.73	28.85	42.39	3.969	.2411	2.519
#1	.2892	.5919	-.1866	3.577	3091.	1143.
#2	.1596	.3648	-.2519	3.861	3085.	1121.
#3	.2931	.6630	-.1002	3.797	3100.	1087.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5291.	23.23	20530.	3.181	.7143	-.7058
Stddev	46.	.21	94.	.190	.9310	1.370
%RSD	.8663	.9098	.4556	5.958	130.3	194.0
#1	5339.	23.45	20630.	3.373	1.271	-.2119
#2	5247.	23.21	20440.	3.177	-.3604	-2.254
#3	5289.	23.03	20520.	2.994	1.232	.3482

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110902-D-6-A Acquired: 3/29/2016 23:39:45 Type: Unk
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.145	1.657	.4542	29.57	18.78	-.3372
Stddev	.737	1.635	.4984	.08	.12	.2505
%RSD	64.41	98.67	109.7	.2639	.6638	74.29
#1	1.556	2.882	.0635	29.66	18.76	-.4458
#2	.2935	2.288	.2837	29.51	18.91	-.0507
#3	1.584	-.1994	1.015	29.54	18.66	-.5151

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.7369	188.2	3.917	4031.
Stddev	.1361	1.2	.165	30.
%RSD	18.47	.6341	4.219	.7555
#1	.6666	189.6	4.094	4044.
#2	.6504	187.4	3.890	3996.
#3	.8938	187.7	3.766	4052.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2954.9	32137.	5068.7
Stddev	5.5	188.	10.4
%RSD	.18506	.58433	.20560
#1	2958.8	31920.	5080.7
#2	2957.3	32256.	5062.5
#3	2948.7	32234.	5062.9

Sample Name: 460-110902-D-9-A Acquired: 3/29/2016 23:47:38 Type: Unk
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	193.4	2.143	.8634	67.60	-.1714	63330.
Stddev	5.8	.713	.2942	.02	.0610	204.
%RSD	2.980	33.28	34.08	.0328	35.62	.3219
#1	197.5	1.524	.5237	67.59	-.2418	63130.
#2	196.0	2.923	1.034	67.58	-.1333	63340.
#3	186.8	1.983	1.032	67.62	-.1390	63530.

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0636	-.4826	.6065	.3231	17310.	36470.
Stddev	.1198	.2407	.3276	.2956	102.	196.
%RSD	188.2	49.88	54.01	91.47	.5875	.5372
#1	-.0691	-.2122	.8380	-.0125	17360.	36470.
#2	.1636	-.5621	.7499	.5444	17380.	36270.
#3	.0964	-.6735	.2317	.4375	17200.	36660.

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4790.	186.7	16920.	1.032	23.87	-.0610
Stddev	20.	1.5	70.	.482	.60	1.127
%RSD	.4254	.7940	.4117	46.68	2.516	1846.
#1	4778.	185.6	16940.	1.588	24.56	-.1083
#2	4813.	186.1	16850.	.7717	23.45	-1.163
#3	4778.	188.4	16990.	.7361	23.60	1.089

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Sample Name: 460-110902-D-9-A Acquired: 3/29/2016 23:47:38 Type: Unk
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.620	-.2459	1.760	2.228	42.39	-.3735
Stddev	1.326	.7646	.254	.101	.10	.1051
%RSD	50.61	311.0	14.45	4.550	.2448	28.12
#1	-4.125	-.2410	1.707	2.342	42.51	-.4264
#2	-2.109	-1.013	2.037	2.147	42.31	-.4417
#3	-1.626	.5163	1.536	2.196	42.36	-.2526

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.1782	390.9	5.573	4949.
Stddev	.5865	2.3	.094	5.
%RSD	329.2	.5849	1.688	.0921
#1	-.6524	390.1	5.647	4945.
#2	.4777	389.2	5.604	4947.
#3	-.3598	393.5	5.467	4954.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2926.9	31908.	5022.3
Stddev	17.7	120.	53.4
%RSD	.60468	.37567	1.0635
#1	2906.6	31770.	4963.1
#2	2935.3	31988.	5036.9
#3	2938.9	31966.	5067.0

Sample Name: CCV Acquired: 3/29/2016 23:51:33 Type: QC
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	124600.	2405.	1189.	9855.	1060.	126900.
Stddev	404.	8.	4.	10.	4.	451.
%RSD	.3241	.3523	.3702	.1046	.3660	.3556

#1	124300.	2409.	1193.	9844.	1058.	127200.
#2	124400.	2410.	1184.	9864.	1058.	126400.
#3	125100.	2395.	1191.	9857.	1065.	127200.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1257.	2541.	4954.	12760.	96910.	51930.
Stddev	1.	1.	18.	36.	333.	290.
%RSD	.0904	.0514	.3640	.2858	.3436	.5584

#1	1257.	2541.	4967.	12800.	97200.	51690.
#2	1258.	2543.	4933.	12730.	96550.	51850.
#3	1256.	2540.	4961.	12740.	96980.	52250.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	122600.	5185.	124800.	2452.	7289.	1002.
Stddev	401.	17.	408.	2.	8.	5.
%RSD	.3268	.3254	.3272	.0825	.1030	.4820

#1	122900.	5198.	124600.	2454.	7286.	1005.
#2	122100.	5166.	124500.	2452.	7298.	1004.
#3	122700.	5192.	125200.	2450.	7284.	996.1

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 3/29/2016 23:51:33 Type: QC
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2397.	2359.	2581.	2363.	958.2	2475.
Stddev	13.	19.	9.	4.	2.5	7.
%RSD	.5503	.8091	.3494	.1558	.2565	.2699
#1	2401.	2361.	2589.	2359.	960.2	2470.
#2	2408.	2377.	2571.	2366.	958.9	2482.
#3	2383.	2339.	2583.	2364.	955.5	2471.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	991.5	5239.	9724.	9239.
Stddev	3.3	18.	70.	110.
%RSD	.3345	.3352	.7153	1.193
#1	990.2	5226.	9800.	9367.
#2	995.3	5231.	9663.	9177.
#3	989.0	5259.	9710.	9175.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2782.8	30164.	4919.0
Stddev	1.1	297.	58.7
%RSD	.03776	.98605	1.1941
#1	2782.8	30023.	4958.4
#2	2781.7	30506.	4947.2
#3	2783.8	29964.	4851.5

Sample Name: CCVL Acquired: 3/29/2016 23:59:16 Type: QC
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	228.5	15.24	9.810	207.5	2.069	5190.
Stddev	4.1	3.38	.168	.4	.104	21.
%RSD	1.809	22.20	1.714	.2030	5.008	.4041

#1	232.2	15.73	9.903	207.4	2.148	5210.
#2	229.2	18.34	9.911	207.1	2.108	5193.
#3	224.0	11.63	9.616	207.9	1.952	5168.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.366	54.55	10.69	26.51	161.5	5107.
Stddev	.086	.40	.14	.11	7.8	19.
%RSD	1.962	.7291	1.284	.4240	4.845	.3793

#1	4.435	54.16	10.71	26.63	167.3	5085.
#2	4.393	54.96	10.82	26.40	152.6	5120.
#3	4.270	54.54	10.55	26.51	164.6	5117.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4984.	16.54	5000.	43.36	10.22	19.22
Stddev	17.	.15	36.	.33	1.70	.87
%RSD	.3378	.8991	.7185	.7583	16.66	4.512

#1	4999.	16.68	5023.	43.34	11.81	20.13
#2	4987.	16.55	5018.	43.04	8.424	19.12
#3	4966.	16.38	4958.	43.70	10.43	18.40

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 3/29/2016 23:59:16 Type: QC
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	18.25	20.77	53.23	29.90	50.28	20.07
Stddev	.52	1.30	.43	.13	.81	.07
%RSD	2.861	6.267	.8133	.4465	1.620	.3683

#1	18.39	22.25	52.89	29.89	49.48	20.03
#2	18.69	19.81	53.71	29.78	50.25	20.03
#3	17.68	20.25	53.08	30.04	51.11	20.16

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	51.20	21.46	20.71	F -4.388
Stddev	.74	.20	.41	41.81
%RSD	1.437	.9255	1.978	952.7

#1	52.01	21.57	21.02	-13.71
#2	50.56	21.23	20.88	-40.75
#3	51.05	21.58	20.25	41.29

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3007.3	32402.	5031.4
Stddev	12.1	324.	78.6
%RSD	.40271	.99916	1.5616

#1	2993.7	32073.	4978.9
#2	3011.6	32413.	4993.6
#3	3016.8	32721.	5121.8

Sample Name: CCVL Acquired: 3/29/2016 22:17:55 Type: QC
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	223.8	14.07	9.895	208.3	2.086	5130.
Stddev	11.5	.59	.100	.9	.033	30.
%RSD	5.143	4.187	1.014	.4213	1.564	.5815

#1	230.1	14.40	9.939	207.5	2.072	5114.
#2	230.7	13.39	9.780	208.2	2.062	5111.
#3	210.5	14.42	9.965	209.3	2.123	5164.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.355	54.20	10.35	26.03	156.7	5078.
Stddev	.047	.56	.42	.35	8.4	35.
%RSD	1.078	1.025	4.065	1.352	5.350	.6803

#1	4.336	53.58	10.51	26.29	147.6	5079.
#2	4.408	54.64	9.869	25.63	158.5	5043.
#3	4.320	54.39	10.66	26.17	164.1	5112.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4963.	16.24	4997.	42.96	10.66	19.09
Stddev	31.	.05	7.	.27	.60	.97
%RSD	.6230	.3183	.1356	.6311	5.647	5.103

#1	4971.	16.29	4993.	42.97	11.23	17.98
#2	4929.	16.18	4993.	43.22	10.70	19.47
#3	4990.	16.25	5005.	42.68	10.03	19.82

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 3/29/2016 22:17:55 Type: QC
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	19.85	21.12	51.61	29.90	50.78	20.02
Stddev	.22	.69	.19	.32	.39	.26
%RSD	1.127	3.287	.3744	1.062	.7737	1.320

#1	19.64	20.65	51.53	29.59	50.50	20.30
#2	20.08	20.79	51.48	29.89	51.23	19.78
#3	19.83	21.92	51.83	30.22	50.61	19.99

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	51.76	21.29	21.07	F -7.834
Stddev	.56	.09	.22	9.647
%RSD	1.077	.4319	1.041	123.1

#1	51.58	21.32	21.09	-18.97
#2	51.32	21.18	20.84	-2.540
#3	52.39	21.36	21.28	-1.994

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2941.5	32073.	4972.8
Stddev	9.1	224.	39.7
%RSD	.30984	.69960	.79917

#1	2951.0	32160.	4991.7
#2	2932.9	32241.	4999.5
#3	2940.5	31818.	4927.1

Sample Name: 460-111077-D-11-A Acquired: 3/29/2016 22:21:50 Type: Unk

Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.692	.4690	.4715	.3044	-.2244	54.28
Stddev	16.09	1.579	.3859	.6616	.0379	3.37
%RSD	951.1	336.6	81.85	217.3	16.88	6.205

#1	9.165	-.9943	.4073	1.057	-.1835	56.13
#2	-20.18	2.142	.1217	.0388	-.2582	56.33
#3	5.941	.2591	.8854	-.1832	-.2316	50.40

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.2515	.0496	.1665	.1431	-.2113	-11.39
Stddev	.1382	.2675	.1428	.0963	7.234	15.20
%RSD	54.95	539.8	85.78	67.28	3423.	133.4

#1	.3970	.2961	.3163	.2044	7.023	-13.87
#2	.2356	.0874	.0319	.0321	-.2118	4.897
#3	.1219	-.2349	.1512	.1928	-7.445	-25.19

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.474	.0426	16.68	.5861	-1.061	-.2660
Stddev	2.728	.0056	6.49	.3719	1.039	1.019
%RSD	185.1	13.14	38.91	63.46	97.95	383.0

#1	.2648	.0428	9.208	.2605	-.2305	-.7656
#2	-.4407	.0481	20.90	.5064	-.7264	-.9388
#3	4.598	.0369	19.93	.9914	-2.227	.9063

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111077-D-11-A Acquired: 3/29/2016 22:21:50 Type: Unk
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.323	-.0244	-.0639	.9845	1.855	-.3433
Stddev	1.418	.3899	.7461	.1328	.328	.1803
%RSD	107.2	1598.	1167.	13.49	17.70	52.53
#1	-2.533	-.1026	.2761	1.127	2.120	-.1614
#2	.2383	.3987	-.9195	.8639	1.957	-.3465
#3	-1.674	-.3692	.4516	.9627	1.488	-.5219

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.2398	-.0603	-.0758	26.39
Stddev	.0446	.0341	.1264	17.83
%RSD	18.61	56.64	166.8	67.56
#1	.2044	-.0978	.0069	5.956
#2	.2899	-.0520	-.2213	34.45
#3	.2252	-.0310	-.0130	38.77

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3033.6	32966.	5124.1
Stddev	9.6	33.	14.6
%RSD	.31632	.09908	.28562
#1	3022.5	32932.	5134.6
#2	3039.3	32972.	5107.4
#3	3038.9	32996.	5130.2

Sample Name: 460-110902-D-11-A Acquired: 3/30/2016 0:07:11 Type: Unk

Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	165.9	6.650	1.320	64.34	-.0941	52710.
Stddev	29.8	1.916	.114	.42	.0729	199.
%RSD	17.98	28.82	8.644	.6534	77.42	.3782

#1	175.6	4.440	1.265	63.89	-.0210	52810.
#2	189.6	7.661	1.451	64.42	-.1668	52480.
#3	132.4	7.849	1.243	64.72	-.0946	52840.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0747	-.1212	.5403	.6123	29220.	20160.
Stddev	.0643	.1382	.1440	.0761	197.	113.
%RSD	86.08	114.0	26.65	12.42	.6725	.5604

#1	.1463	-.2547	.4221	.6874	29240.	20250.
#2	.0562	.0212	.4982	.5353	29020.	20190.
#3	.0217	-.1299	.7007	.6142	29410.	20030.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4617.	257.2	24320.	.3637	6.182	-.3223
Stddev	30.	1.1	82.	.3577	1.283	1.159
%RSD	.6429	.4147	.3385	98.35	20.76	359.5

#1	4602.	257.8	24360.	.6162	4.880	-1.192
#2	4598.	255.9	24360.	.5206	7.446	.9930
#3	4651.	257.8	24220.	-.0456	6.221	-.7681

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110902-D-11-A Acquired: 3/30/2016 0:07:11 Type: Unk
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.8508	-.0851	1.671	2.470	37.05	-.1597
Stddev	.8603	1.926	.100	.052	.43	.1800
%RSD	101.1	2264.	5.956	2.094	1.159	112.8
#1	.0816	.9480	1.642	2.457	36.56	.0414
#2	1.780	-2.307	1.781	2.527	37.21	-.3058
#3	.6912	1.104	1.589	2.426	37.37	-.2146

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.3620	282.2	5.528	3306.
Stddev	.4404	1.3	.117	25.
%RSD	121.7	.4723	2.113	.7684
#1	-.1437	283.5	5.404	3290.
#2	.6613	282.3	5.635	3292.
#3	.5683	280.9	5.546	3335.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2931.2	31666.	5011.0
Stddev	9.0	121.	40.1
%RSD	.30582	.38159	.80063
#1	2932.3	31527.	4966.8
#2	2939.6	31733.	5021.3
#3	2921.8	31740.	5045.0

Sample Name: 460-111114-E-5-A Acquired: 3/30/2016 0:27:16 Type: Unk

Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	224.5	2.083	.6724	46.30	-.0617	27450.
Stddev	3.3	1.080	.3038	.09	.0228	93.
%RSD	1.459	51.85	45.18	.2004	36.91	.3403

#1	228.2	.9331	.9924	46.27	-.0848	27390.
#2	221.8	3.076	.3879	46.41	-.0610	27410.
#3	223.6	2.240	.6369	46.23	-.0392	27560.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0025	-.5634	2.885	2.344	14390.	2742.
Stddev	.1051	.0849	.183	.170	76.	36.
%RSD	4161.	15.07	6.341	7.265	.5270	1.312

#1	.0431	-.4655	2.887	2.531	14450.	2702.
#2	.0720	-.6075	2.701	2.198	14300.	2751.
#3	-.1228	-.6172	3.066	2.303	14400.	2772.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3027.	166.1	F 504600.	1.278	1.228	-.1978
Stddev	12.	.4	3096.	.164	1.182	1.327
%RSD	.3924	.2347	.6135	12.81	96.20	670.9

#1	3040.	166.0	507100.	1.113	1.064	-.0957
#2	3020.	165.8	501100.	1.281	2.483	1.075
#3	3020.	166.6	505600.	1.441	.1374	-1.573

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Sample Name: 460-111114-E-5-A Acquired: 3/30/2016 0:27:16 Type: Unk
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.529	-0.0589	3.576	41.20	155.6	-0.2260
Stddev	3.985	1.357	.194	.20	.5	.0749
%RSD	260.6	2303.	5.426	.4874	.3006	33.15
#1	-4.951	-1.567	3.784	41.34	155.1	-0.1597
#2	2.846	1.062	3.543	41.30	155.9	-0.2111
#3	-2.484	.3284	3.401	40.97	155.9	-0.3073

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.4683	191.3	5.991	2744.
Stddev	1.182	.9	.043	40.
%RSD	252.4	.4461	.7147	1.461
#1	-.8466	190.9	6.039	2701.
#2	1.442	192.2	5.956	2780.
#3	.8096	190.6	5.978	2752.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2834.6	30041.	4889.0
Stddev	8.1	135.	32.5
%RSD	.28738	.44867	.66483
#1	2840.9	30155.	4919.0
#2	2837.6	30077.	4893.4
#3	2825.4	29892.	4854.5

Sample Name: 460-110936-A-64-A Acquired: 3/30/2016 0:35:21 Type: Unk

Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	105.0	-.4514	.3363	.6135	-.1599	5113.
Stddev	4.8	1.623	.3042	.0618	.0977	33.
%RSD	4.572	359.7	90.45	10.07	61.10	.6432

#1	99.67	-1.956	.4599	.5440	-.0762	5124.
#2	109.0	1.269	-.0102	.6622	-.1363	5138.
#3	106.3	-.6675	.5592	.6343	-.2673	5076.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.1675	-.0391	.2044	.7561	227.6	97.36
Stddev	.0620	.2233	.2740	.1257	3.8	11.91
%RSD	37.02	571.7	134.0	16.62	1.679	12.23

#1	.2321	-.1011	-.0158	.6843	227.4	99.26
#2	.1085	-.2247	.1179	.9013	223.9	84.62
#3	.1619	.2087	.5113	.6828	231.5	108.2

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2786.	11.13	217.7	1.269	.6236	-.8473
Stddev	13.	.10	13.7	.154	.8054	.3051
%RSD	.4649	.9246	6.284	12.17	129.1	36.00

#1	2779.	11.04	232.9	1.174	.0608	-1.191
#2	2801.	11.24	213.7	1.185	.2639	-.7441
#3	2777.	11.11	206.4	1.447	1.546	-.6073

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110936-A-64-A Acquired: 3/30/2016 0:35:21 Type: Unk

Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.4340	.0484	.0212	1.594	5.609	-.3381
Stddev	1.377	1.573	.2572	.159	.407	.3067
%RSD	317.3	3249.	1212.	9.962	7.262	90.71

#1	.9202	-1.597	.3175	1.748	5.471	-.0611
#2	-.3898	.2050	-.1089	1.430	5.289	-.2856
#3	-1.832	1.537	-.1449	1.605	6.068	-.6677

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.3363	1.637	5.574	138.8
Stddev	.1514	.106	.222	12.5
%RSD	45.01	6.462	3.976	9.002

#1	.1671	1.515	5.543	143.6
#2	.4589	1.705	5.809	124.6
#3	.3829	1.690	5.369	148.1

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3014.6	33075.	5000.3
Stddev	19.0	275.	97.4
%RSD	.63140	.83283	1.9487

#1	2993.4	32887.	4940.9
#2	3019.9	32948.	4947.2
#3	3030.4	33391.	5112.7

Sample Name: MB 460-359256/1-A Acquired: 3/29/2016 22:25:49 Type: QC

Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	53.57	1.307	.5768	-.0915	-.1346	25.90
Stddev	6.80	.719	.8478	.0931	.0380	3.76
%RSD	12.69	54.96	147.0	101.7	28.26	14.52

#1	50.59	1.743	-.3990	-.0358	-.1058	23.06
#2	48.76	1.701	.9967	-.1990	-.1777	30.16
#3	61.34	.4780	1.133	-.0398	-.1202	24.47

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.1779	.1465	.0877	.4129	6.852	-10.17
Stddev	.0616	.0843	.3056	.1578	4.811	38.87
%RSD	34.62	57.50	348.2	38.21	70.21	382.4

#1	.2458	.1276	-.0005	.5309	5.430	34.09
#2	.1620	.2387	-.1640	.4742	2.913	-38.80
#3	.1258	.0734	.4277	.2337	12.21	-25.78

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.599	.0516	8.363	.7481	-.6938	.1347
Stddev	4.018	.0165	4.085	.2804	.4875	1.302
%RSD	111.7	32.05	48.84	37.48	70.27	967.0

#1	6.825	.0334	8.441	.4543	-.2119	.9588
#2	4.873	.0555	12.41	1.013	-.6829	-1.366
#3	-.9019	.0658	4.240	.7770	-1.187	.8117

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: MB 460-359256/1-A Acquired: 3/29/2016 22:25:49 Type: QC

Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.340	1.037	-.0385	.4895	.1385	-.5738
Stddev	3.303	.814	.3288	.2380	.2097	.0287
%RSD	246.5	78.50	854.6	48.63	151.4	5.006

#1	-.8020	.4741	-.0236	.6594	.1726	-.6026
#2	-4.879	1.970	-.3744	.2174	-.0861	-.5738
#3	1.661	.6664	.2826	.5916	.3291	-.5451

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.4468	-.0783	-.2318	1.381
Stddev	.5533	.0889	.1014	18.82
%RSD	123.8	113.6	43.76	1363.

#1	1.020	-.1184	-.1212	-20.35
#2	-.0843	-.1402	-.3204	12.24
#3	.4049	.0236	-.2538	12.25

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3016.0	32552.	4981.0
Stddev	20.6	322.	37.2
%RSD	.68379	.98855	.74637

#1	3027.1	32320.	4998.7
#2	2992.2	32417.	5006.0
#3	3028.8	32920.	4938.3

Sample Name: LCS 460-359256/2-A Acquired: 3/29/2016 22:29:47 Type: QC
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1852.	1698.	43.83	1821.	48.92	18520.
Stddev	7.	2.	.26	2.	.36	46.
%RSD	.3516	.1232	.6011	.0963	.7342	.2491

#1	1860.	1696.	44.12	1821.	48.65	18540.
#2	1850.	1700.	43.61	1823.	48.78	18540.
#3	1847.	1698.	43.77	1820.	49.32	18460.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	46.98	477.3	189.5	229.9	937.8	17300.
Stddev	.08	.4	1.3	1.4	7.9	111.
%RSD	.1638	.0923	.6906	.6179	.8433	.6386

#1	46.95	477.5	190.5	231.3	935.3	17400.
#2	47.07	477.7	190.1	230.0	931.4	17330.
#3	46.92	476.9	188.0	228.5	946.6	17190.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	17640.	484.3	17940.	471.4	464.2	445.8
Stddev	26.	2.1	65.	.7	1.4	1.7
%RSD	.1498	.4269	.3595	.1431	.3059	.3828

#1	17650.	485.9	17990.	470.9	465.7	444.1
#2	17650.	485.0	17960.	472.1	462.9	447.5
#3	17610.	481.9	17870.	471.1	464.1	445.8

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: LCS 460-359256/2-A Acquired: 3/29/2016 22:29:47 Type: QC
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1725.	1862.	478.4	451.6	453.8	455.1
Stddev	2.	5.	2.5	.7	2.3	.6
%RSD	.0929	.2807	.5176	.1570	.5156	.1365

#1	1724.	1859.	480.8	451.5	451.7	454.9
#2	1727.	1860.	478.5	452.3	453.3	454.7
#3	1726.	1868.	475.9	450.9	456.3	455.8

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	467.7	475.5	451.7	65.41
Stddev	.8	3.3	.9	28.39
%RSD	.1693	.6976	.1930	43.41

#1	468.4	478.0	451.3	52.64
#2	467.9	476.7	451.1	45.64
#3	466.9	471.7	452.7	97.94

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2948.3	31693.	4982.0
Stddev	7.3	23.	14.9
%RSD	.24628	.07307	.29857

#1	2947.1	31685.	4969.1
#2	2941.7	31675.	4978.6
#3	2956.1	31719.	4998.2

Sample Name: CCB Acquired: 3/30/2016 0:47:04 Type: QC
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.486	-.3251	.6312	.1792	-.1532	35.78
Stddev	13.32	2.188	.1601	.0715	.0439	.87
%RSD	896.0	673.2	25.37	39.92	28.68	2.436

#1	-13.67	.9447	.7440	.1659	-.1584	35.51
#2	6.836	-2.852	.4479	.2564	-.1069	36.75
#3	11.30	.9319	.7016	.1152	-.1944	35.07

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.2018	.0824	-.0947	.9812	1.885	11.73
Stddev	.1078	.1656	.1051	.0257	5.532	23.84
%RSD	53.44	201.0	110.9	2.621	293.5	203.3

#1	.1285	.2300	.0182	.9515	-1.342	2.774
#2	.1512	.1137	-.1127	.9961	8.272	38.75
#3	.3256	-.0966	-.1897	.9960	-1.276	-6.336

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.894	.0101	59.91	.6815	-1.004	-.6537
Stddev	2.172	.0119	4.63	.2170	1.005	1.126
%RSD	44.37	117.8	7.738	31.84	100.1	172.2

#1	2.393	.0054	63.81	.7756	-.1607	.6352
#2	6.300	.0013	54.78	.8354	-2.115	-1.150
#3	5.990	.0236	61.13	.4333	-.7349	-1.446

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 3/30/2016 0:47:04 Type: QC
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.8053	1.213	-.0661	-.0316	.5806	.2153
Stddev	3.624	.376	.1792	.1458	.5466	.4799
%RSD	450.0	31.01	270.9	462.1	94.14	223.0
#1	-4.885	.7983	.1157	-.1202	1.191	.7426
#2	.4317	1.309	-.2425	-.1113	.4141	-.1959
#3	2.038	1.532	-.0716	.1368	.1366	.0990

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.2645	.0628	.2498	-9.888
Stddev	.3561	.0369	.2113	12.93
%RSD	134.7	58.70	84.57	130.7
#1	.3771	.0749	.3332	.1748
#2	-.1344	.0920	.4066	-24.47
#3	.5507	.0214	.0096	-5.371

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3052.8	33071.	4995.5
Stddev	12.7	265.	11.7
%RSD	.41592	.80200	.23446
#1	3040.7	32884.	4996.9
#2	3051.8	32955.	4983.1
#3	3066.0	33374.	5006.4

Sample Name: 460-110902-D-7-A Acquired: 3/29/2016 22:37:17 Type: Unk
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	322.9	2.086	.5964	53.85	-.0233	65260.
Stddev	4.8	1.022	.4246	.10	.1159	66.
%RSD	1.488	48.97	71.19	.1826	496.6	.1013
#1	317.4	.9395	.3448	53.84	-.1415	65230.
#2	326.1	2.421	.3578	53.96	.0902	65340.
#3	325.2	2.899	1.087	53.76	-.0188	65220.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0516	.1155	.3433	1.047	13270.	6510.
Stddev	.1187	.1630	.7351	.238	14.	38.
%RSD	230.0	141.1	214.2	22.77	.1060	.5905
#1	.1816	.1008	1.126	.8538	13260.	6466.
#2	.0246	.2855	.2361	.9729	13290.	6529.
#3	-.0513	-.0396	-.3324	1.313	13270.	6536.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	11140.	626.9	18940.	.8431	.1069	-.9992
Stddev	13.	1.1	25.	.2853	.6281	1.590
%RSD	.1141	.1750	.1300	33.84	587.6	159.1
#1	11160.	626.1	18930.	1.127	-.5380	-2.681
#2	11140.	628.2	18970.	.8457	.7167	-.7974
#3	11140.	626.5	18920.	.5564	.1420	.4803

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110902-D-7-A Acquired: 3/29/2016 22:37:17 Type: Unk
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.336	.7544	1.027	5.120	56.28	4.359
Stddev	.340	.3908	.248	.356	.06	.258
%RSD	25.43	51.80	24.17	6.945	.0998	5.914
#1	-1.635	.3128	.8670	4.925	56.30	4.537
#2	-.9665	1.056	.9017	5.531	56.32	4.063
#3	-1.406	.8948	1.313	4.905	56.21	4.477

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1.298	583.1	10.99	6118.
Stddev	.222	.7	.37	63.
%RSD	17.10	.1282	3.401	1.022
#1	1.496	582.2	11.07	6125.
#2	1.058	583.5	11.31	6176.
#3	1.340	583.5	10.58	6052.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2956.0	31738.	5088.4
Stddev	4.7	94.	26.3
%RSD	.15830	.29560	.51766
#1	2956.6	31673.	5118.2
#2	2951.0	31696.	5079.1
#3	2960.3	31846.	5068.0

Sample Name: sd 460-110793-A-5-A Acquired: 3/30/2016 1:06:45 Type: Unk

Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	33.27	1.042	.3570	4.918	-.2297	7189.
Stddev	9.56	.319	.1960	.052	.0518	31.
%RSD	28.73	30.63	54.91	1.050	22.56	.4318

#1	29.35	.8925	.1425	4.924	-.2853	7166.
#2	26.30	.8243	.4017	4.966	-.1828	7177.
#3	44.16	1.408	.5269	4.863	-.2208	7224.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.1673	-.0107	.1483	.6979	5.154	1359.
Stddev	.0934	.0924	.1824	.1901	6.038	38.
%RSD	55.81	863.1	123.0	27.24	117.2	2.825

#1	.2687	-.1035	.0169	.8997	-1.690	1386.
#2	.0849	.0813	.3565	.5221	7.424	1315.
#3	.1482	-.0100	.0714	.6718	9.727	1375.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2072.	8.888	11030.	2.053	-1.266	.7156
Stddev	14.	.027	22.	.274	1.251	.8423
%RSD	.6646	.3042	.1957	13.36	98.82	117.7

#1	2070.	8.887	11040.	2.368	-2.709	1.251
#2	2059.	8.915	11040.	1.863	-.4824	-.2553
#3	2087.	8.861	11000.	1.929	-.6068	1.151

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: sd 460-110793-A-5-A Acquired: 3/30/2016 1:06:45 Type: Unk
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.1944	2.541	.4177	.5751	22.83	7.243
Stddev	2.756	1.850	.3133	.1512	.14	.101
%RSD	1417.	72.83	74.99	26.29	.6121	1.399
#1	-2.786	1.293	.7786	.5660	22.99	7.272
#2	2.701	4.667	.2150	.7306	22.71	7.130
#3	-.4978	1.663	.2597	.4286	22.81	7.326

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.1632	38.24	1.311	172.8
Stddev	.6110	.18	.266	13.4
%RSD	374.4	.4674	20.25	7.773
#1	.1758	38.23	1.011	163.1
#2	.2031	38.42	1.406	167.2
#3	-.8685	38.06	1.516	188.2

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2956.3	32577.	4944.2
Stddev	19.8	105.	39.2
%RSD	.67129	.32368	.79269
#1	2937.5	32514.	4905.0
#2	2977.0	32699.	4944.0
#3	2954.4	32519.	4983.4

Sample Name: sd 460-110902-D-7-A Acquired: 3/29/2016 22:41:12 Type: Unk
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	66.99	2.514	.6838	10.08	-.1299	12620.
Stddev	8.90	1.015	.2654	.13	.0617	36.
%RSD	13.29	40.36	38.81	1.329	47.54	.2826
#1	57.20	2.211	.9868	9.988	-.0802	12590.
#2	74.59	3.645	.4928	10.03	-.1103	12660.
#3	69.18	1.685	.5718	10.24	-.1990	12610.

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.1606	.0262	.2532	.5677	2604.	1237.
Stddev	.0798	.1957	.1070	.2180	7.	37.
%RSD	49.67	746.6	42.27	38.41	.2812	2.990
#1	.0694	-.1996	.2864	.5910	2597.	1223.
#2	.1950	.1324	.1335	.7731	2611.	1279.
#3	.2174	.1459	.3398	.3389	2606.	1209.

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2178.	124.3	3649.	.6376	.0452	.1106
Stddev	15.	.1	6.	.2226	.2669	1.164
%RSD	.6829	.0431	.1764	34.92	590.5	1053.
#1	2173.	124.3	3656.	.6935	.1630	-.3815
#2	2195.	124.4	3644.	.8269	.2329	-.7270
#3	2166.	124.3	3646.	.3923	-.2603	1.440

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Sample Name: sd 460-110902-D-7-A Acquired: 3/29/2016 22:41:12 Type: Unk
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-0.8218	1.715	.2945	1.054	10.37	.4179
Stddev	1.840	.349	.0737	.136	.26	.3141
%RSD	224.0	20.38	25.01	12.85	2.515	75.17
#1	-1.412	2.107	.2590	1.187	10.66	.7645
#2	-2.294	1.600	.3792	.9165	10.15	.1521
#3	1.241	1.437	.2454	1.058	10.30	.3370

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-0.2272	114.6	3.221	1144.
Stddev	.3637	.2	.016	23.
%RSD	160.1	.1711	.5089	2.050
#1	-0.6278	114.8	3.211	1169.
#2	-0.1364	114.6	3.212	1123.
#3	.0825	114.4	3.240	1139.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3001.4	32431.	5088.4
Stddev	3.1	137.	38.1
%RSD	.10455	.42291	.74884
#1	3000.1	32575.	5131.4
#2	3005.0	32302.	5075.0
#3	2999.1	32417.	5058.8

Sample Name: pds 460-110793-A-5-A Acquired: 3/30/2016 1:14:24 Type: Unk
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2060.	1819.	46.12	1905.	50.76	56820.
Stddev	10.	8.	.01	3.	.19	38.
%RSD	.4650	.4236	.0293	.1371	.3805	.0665
#1	2063.	1827.	46.11	1908.	50.88	56780.
#2	2067.	1812.	46.14	1903.	50.87	56850.
#3	2049.	1817.	46.12	1904.	50.54	56830.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	49.21	492.4	196.0	240.5	1032.	25110.
Stddev	.09	.4	.6	.4	10.	39.
%RSD	.1835	.0906	.2927	.1496	.9403	.1539
#1	49.16	492.3	196.7	240.0	1022.	25150.
#2	49.31	492.0	195.8	240.7	1034.	25120.
#3	49.15	492.9	195.6	240.7	1041.	25070.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	29590.	544.0	75980.	497.2	483.8	468.9
Stddev	10.	1.1	246.	.7	.8	2.2
%RSD	.0326	.2043	.3234	.1388	.1608	.4591
#1	29580.	542.7	76250.	498.0	483.8	466.5
#2	29600.	544.8	75920.	496.9	483.0	470.2
#3	29590.	544.4	75760.	496.7	484.5	470.1

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: pds 460-110793-A-5-A Acquired: 3/30/2016 1:14:24 Type: Unk
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1890.	1936.	496.3	481.4	612.1	509.3
Stddev	4.	10.	2.4	.4	1.1	1.3
%RSD	.2189	.5337	.4840	.0774	.1842	.2526
#1	1894.	1937.	493.5	481.8	612.6	507.9
#2	1891.	1946.	497.7	481.0	612.9	510.0
#3	1886.	1925.	497.5	481.4	610.8	510.2

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	486.1	682.2	473.7	1033.
Stddev	.9	1.0	.8	29.
%RSD	.1754	.1518	.1625	2.849
#1	485.1	681.0	474.6	1049.
#2	486.5	683.1	473.3	1051.
#3	486.6	682.3	473.3	999.2

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2906.7	31328.	4919.9
Stddev	1.8	125.	29.0
%RSD	.06276	.39836	.58856
#1	2908.1	31471.	4909.3
#2	2904.7	31242.	4897.7
#3	2907.4	31271.	4952.6

Sample Name: 460-110519-F-2-A@10 Acquired: 3/30/2016 1:22:02 Type: Unk
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	28.95	1.577	.7310	1.459	-.1883	5593.
Stddev	11.05	.452	.2908	.062	.1005	30.
%RSD	38.15	28.65	39.78	4.262	53.37	.5364
#1	40.31	1.131	.5931	1.467	-.0734	5572.
#2	18.25	1.565	1.065	1.516	-.2597	5580.
#3	28.29	2.034	.5348	1.393	-.2319	5628.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0459	-.2595	3.200	15.36	199.9	676.7
Stddev	.0359	.0729	.812	.23	2.9	56.8
%RSD	78.21	28.08	25.36	1.505	1.443	8.394
#1	.0676	-.3060	3.616	15.10	197.5	620.1
#2	.0658	-.1755	2.265	15.54	203.1	676.4
#3	.0045	-.2969	3.720	15.44	199.1	733.7

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	411.7	1.778	F 667000.	4.063	-.8250	-1.569
Stddev	2.5	.023	532.	.399	.3789	.773
%RSD	.6157	1.298	.0798	9.829	45.93	49.25
#1	409.1	1.754	667600.	4.099	-.8455	-1.225
#2	411.8	1.781	666800.	4.444	-1.193	-1.029
#3	414.2	1.800	666600.	3.647	-.4362	-2.455

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Sample Name: 460-110519-F-2-A@10 Acquired: 3/30/2016 1:22:02 Type: Unk
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.2701	-.5206	1.500	9.622	9.909	.1606
Stddev	1.305	1.186	.392	.191	.556	.0778
%RSD	483.3	227.7	26.15	1.983	5.613	48.44
#1	1.235	.8097	1.243	9.714	10.52	.0939
#2	-1.091	-.9057	1.951	9.749	9.768	.2461
#3	-.9546	-1.466	1.305	9.402	9.437	.1418

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.3314	19.54	7.915	965.0
Stddev	.8043	.08	.176	21.5
%RSD	242.7	.3847	2.225	2.232
#1	-.4310	19.48	8.097	946.9
#2	.5180	19.51	7.904	959.3
#3	-1.081	19.62	7.745	988.8

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2786.4	29530.	4897.3
Stddev	10.5	97.	17.6
%RSD	.37602	.32717	.35991
#1	2774.8	29419.	4895.5
#2	2788.9	29576.	4880.6
#3	2795.3	29595.	4915.7

Sample Name: pds 460-110902-D-7-A Acquired: 3/29/2016 22:48:44 Type: Unk
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2249.	1790.	45.10	1921.	51.65	82660.
Stddev	5.	5.	.43	4.	.24	220.
%RSD	.2206	.3028	.9625	.2174	.4584	.2658

#1	2253.	1789.	45.13	1926.	51.83	82840.
#2	2244.	1796.	45.53	1921.	51.73	82420.
#3	2251.	1785.	44.66	1917.	51.38	82730.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	48.10	491.6	191.5	241.8	13720.	24700.
Stddev	.08	1.0	.8	.4	43.	76.
%RSD	.1710	.1977	.4089	.1697	.3143	.3097

#1	48.18	492.5	192.3	242.2	13770.	24780.
#2	48.10	491.7	191.6	241.9	13700.	24670.
#3	48.02	490.6	190.7	241.4	13700.	24630.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	28810.	1102.	37570.	481.9	472.6	467.7
Stddev	93.	1.	116.	1.5	2.0	4.2
%RSD	.3223	.1291	.3097	.3140	.4154	.9060

#1	28910.	1103.	37650.	482.7	474.8	470.6
#2	28730.	1101.	37620.	482.8	472.1	469.7
#3	28780.	1103.	37430.	480.1	470.9	462.9

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: pds 460-110902-D-7-A Acquired: 3/29/2016 22:48:44 Type: Unk
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1821.	1874.	492.4	457.7	530.9	477.5
Stddev	11.	4.	.6	1.0	3.6	.8
%RSD	.6214	.2112	.1317	.2095	.6786	.1779
#1	1824.	1870.	493.2	458.6	533.8	477.1
#2	1831.	1876.	492.0	456.7	532.1	478.5
#3	1809.	1877.	492.1	457.9	526.9	477.0

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	481.0	1079.	473.1	6248.
Stddev	1.5	2.	1.8	51.
%RSD	.3199	.2007	.3865	.8182
#1	479.3	1081.	475.2	6289.
#2	481.4	1079.	472.1	6263.
#3	482.3	1077.	472.0	6191.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2910.5	31736.	5082.6
Stddev	7.7	73.	12.4
%RSD	.26588	.22914	.24478
#1	2903.3	31680.	5078.3
#2	2918.7	31818.	5096.6
#3	2909.5	31709.	5072.9

Sample Name: 460-110707-D-2-A Acquired: 3/29/2016 22:52:21 Type: Unk
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	145.1	1.727	.6885	58.28	-.0797	47770.
Stddev	11.6	1.646	.3468	.80	.0327	135.
%RSD	7.997	95.31	50.37	1.365	41.05	.2830
#1	150.3	3.576	1.084	59.18	-.0933	47890.
#2	131.8	.4188	.4343	58.03	-.1035	47790.
#3	153.1	1.188	.5476	57.65	-.0424	47620.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.1879	1.785	.7629	1.943	14.40	4481.
Stddev	.1381	.318	.2615	.017	5.69	6.
%RSD	73.50	17.80	34.27	.8734	39.53	.1287
#1	.3474	2.139	.7827	1.926	8.226	4475.
#2	.1097	1.693	1.014	1.941	19.44	4484.
#3	.1066	1.524	.4921	1.960	15.54	4485.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7354.	222.2	62130.	34.11	1.383	.5483
Stddev	25.	.4	211.	.12	.851	.7399
%RSD	.3415	.1768	.3401	.3500	61.56	135.0
#1	7371.	222.6	62190.	34.07	1.318	1.279
#2	7367.	222.2	62300.	34.24	2.264	-.2009
#3	7325.	221.8	61890.	34.02	.5655	.5671

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110707-D-2-A Acquired: 3/29/2016 22:52:21 Type: Unk
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.8386	1.872	-.0932	15.88	61.30	.5060
Stddev	2.394	1.104	.0596	.39	.26	.1688
%RSD	285.5	58.96	63.91	2.436	.4262	33.35
#1	.6021	2.032	-.1122	16.32	61.28	.6007
#2	.4845	2.888	-.0264	15.62	61.05	.6061
#3	-3.602	.6974	-.1409	15.69	61.57	.3111

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1.056	235.4	4.798	4521.
Stddev	.312	1.2	.091	31.
%RSD	29.52	.5182	1.889	.6845
#1	.7460	235.9	4.894	4553.
#2	1.052	236.2	4.786	4518.
#3	1.369	234.0	4.714	4491.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2904.4	31588.	4934.6
Stddev	12.6	127.	49.9
%RSD	.43330	.40146	1.0110
#1	2918.0	31673.	4991.4
#2	2902.1	31649.	4914.8
#3	2893.2	31442.	4897.6

Sample Name: 460-110707-A-3-B Acquired: 3/29/2016 22:56:16 Type: Unk
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	125.7	2.370	.4782	57.60	-.2051	47640.
Stddev	4.7	.630	.1232	.06	.0680	181.
%RSD	3.759	26.58	25.76	.1072	33.17	.3799

#1	126.5	3.068	.3513	57.64	-.2297	47850.
#2	130.0	1.843	.4861	57.53	-.1282	47520.
#3	120.7	2.199	.5973	57.64	-.2574	47540.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.2306	1.725	-.0595	1.520	2.297	4477.
Stddev	.0425	.345	.1232	.334	8.427	30.
%RSD	18.43	20.02	207.2	22.00	366.9	.6692

#1	.2541	1.459	.0335	1.334	9.176	4443.
#2	.2561	2.115	-.0126	1.319	4.816	4495.
#3	.1815	1.601	-.1992	1.906	-7.102	4494.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7352.	184.7	62580.	31.80	.6742	.0737
Stddev	10.	.7	252.	.18	1.490	1.172
%RSD	.1339	.3802	.4028	.5637	221.0	1589.

#1	7346.	185.2	62740.	31.64	2.394	-.9481
#2	7363.	185.0	62290.	31.79	-.1560	1.352
#3	7347.	183.9	62720.	31.99	-.2158	-.1831

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110707-A-3-B Acquired: 3/29/2016 22:56:16 Type: Unk
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0281	1.925	-.0961	10.94	61.32	.2327
Stddev	.9417	2.004	.1720	.24	.79	.0554
%RSD	3355.	104.1	179.0	2.201	1.291	23.81
#1	1.013	4.160	-.2947	11.19	61.89	.1899
#2	-.0650	1.329	.0002	10.71	60.42	.2953
#3	-.8637	.2859	.0062	10.94	61.66	.2129

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.2501	235.1	4.679	4560.
Stddev	.6886	.8	.008	54.
%RSD	275.3	.3316	.1686	1.195
#1	.8785	235.7	4.681	4622.
#2	.3578	234.3	4.671	4537.
#3	-.4860	235.5	4.686	4520.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2899.3	31543.	4928.3
Stddev	24.7	329.	20.3
%RSD	.85286	1.0440	.41273
#1	2872.3	31176.	4904.8
#2	2904.9	31639.	4940.2
#3	2920.8	31813.	4939.8

Sample Name: CCV Acquired: 3/29/2016 23:00:11 Type: QC
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	123800.	2384.	1165.	9768.	1068.	124500.
Stddev	905.	9.	4.	40.	5.	221.
%RSD	.7305	.3957	.3045	.4073	.4996	.1772

#1	124900.	2394.	1167.	9811.	1074.	124800.
#2	123300.	2376.	1161.	9759.	1066.	124500.
#3	123300.	2383.	1166.	9733.	1064.	124300.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1247.	2535.	4872.	12590.	94750.	52000.
Stddev	5.	8.	23.	103.	499.	90.
%RSD	.3666	.2981	.4619	.8140	.5261	.1731

#1	1252.	2543.	4898.	12530.	95290.	52100.
#2	1245.	2529.	4865.	12540.	94640.	51950.
#3	1244.	2532.	4855.	12710.	94320.	51940.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	120000.	5101.	124000.	2434.	7196.	1004.
Stddev	267.	6.	671.	14.	33.	2.
%RSD	.2228	.1269	.5413	.5880	.4578	.2419

#1	120200.	5100.	124700.	2450.	7232.	1003.
#2	119700.	5095.	123300.	2429.	7186.	1002.
#3	120000.	5108.	124000.	2422.	7169.	1007.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 3/29/2016 23:00:11 Type: QC
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2377.	2334.	2534.	2305.	954.3	2465.
Stddev	17.	18.	9.	20.	3.0	8.
%RSD	.7076	.7778	.3637	.8858	.3107	.3341
#1	2388.	2354.	2527.	2327.	956.6	2474.
#2	2358.	2319.	2531.	2300.	950.9	2459.
#3	2386.	2328.	2544.	2287.	955.4	2461.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	984.3	5229.	9558.	8976.
Stddev	3.7	9.	71.	8.
%RSD	.3750	.1728	.7415	.0885
#1	988.4	5237.	9608.	8967.
#2	981.1	5219.	9477.	8983.
#3	983.4	5232.	9589.	8977.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2780.7	30425.	4861.7
Stddev	17.4	94.	77.8
%RSD	.62564	.30941	1.6003
#1	2762.9	30320.	4781.8
#2	2781.6	30451.	4866.2
#3	2797.7	30503.	4937.2

Sample Name: 460-110803-A-2-A Acquired: 3/30/2016 2:01:39 Type: Unk
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	172.6	2.218	.8221	29.42	-.0266	26160.
Stddev	11.3	.823	.5354	.12	.1687	133.
%RSD	6.539	37.09	65.12	.4153	633.2	.5073
#1	182.4	3.029	1.292	29.52	-.1209	26310.
#2	160.2	2.240	.9347	29.44	.1682	26070.
#3	175.2	1.384	.2394	29.28	-.1271	26100.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	8.065	.1941	83.80	11.03	240.8	3623.
Stddev	.021	.1707	.28	.24	9.7	10.
%RSD	.2562	87.97	.3286	2.218	4.011	.2718
#1	8.062	.0051	84.12	10.83	235.5	3621.
#2	8.086	.3371	83.68	10.94	251.9	3615.
#3	8.045	.2402	83.61	11.30	234.9	3634.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5411.	46.60	39860.	13.48	1.260	-.8126
Stddev	28.	.13	71.	.21	1.417	2.251
%RSD	.5182	.2724	.1793	1.534	112.4	277.0
#1	5433.	46.63	39910.	13.35	2.558	1.559
#2	5380.	46.46	39890.	13.72	1.474	-2.919
#3	5421.	46.71	39780.	13.37	-.2513	-1.079

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110803-A-2-A Acquired: 3/30/2016 2:01:39 Type: Unk
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.846	2.539	.1938	131.5	63.70	.1751
Stddev	1.534	1.252	.2976	.8	.45	.0163
%RSD	53.89	49.31	153.5	.6040	.7043	9.308
#1	-2.353	2.407	.3958	132.1	63.70	.1575
#2	-1.619	1.359	-.1479	131.8	63.26	.1897
#3	-4.565	3.852	.3335	130.6	64.15	.1781

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.0891	140.8	3.747	3877.
Stddev	.0692	.9	.191	60.
%RSD	77.63	.6626	5.108	1.547
#1	-.0747	139.9	3.954	3812.
#2	-.1643	140.9	3.711	3887.
#3	-.0282	141.7	3.576	3931.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3040.8	32514.	5038.9
Stddev	18.8	285.	115.8
%RSD	.61767	.87656	2.2976
#1	3025.1	32193.	4921.9
#2	3035.7	32615.	5041.4
#3	3061.6	32735.	5153.4

Sample Name: CCVL Acquired: 3/29/2016 23:07:52 Type: QC
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	204.8	14.53	9.980	208.0	2.061	5129.
Stddev	8.2	.74	.658	.5	.049	16.
%RSD	4.005	5.117	6.594	.2551	2.367	.3201

#1	201.0	15.33	10.46	207.4	2.037	5111.
#2	199.2	13.86	9.230	208.2	2.029	5142.
#3	214.2	14.41	10.25	208.4	2.117	5136.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.405	54.51	10.37	26.33	154.9	5160.
Stddev	.039	.29	.49	.03	2.5	18.
%RSD	.8870	.5286	4.712	.1193	1.591	.3582

#1	4.360	54.26	10.83	26.36	157.1	5151.
#2	4.434	54.44	9.855	26.31	152.3	5147.
#3	4.420	54.82	10.41	26.31	155.4	5181.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4911.	16.44	5000.	43.19	9.834	18.78
Stddev	10.	.03	11.	.34	.353	2.17
%RSD	.2053	.1818	.2181	.7891	3.593	11.55

#1	4911.	16.42	4993.	42.98	9.816	20.94
#2	4901.	16.48	5012.	43.00	10.20	16.60
#3	4921.	16.42	4994.	43.58	9.490	18.78

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 3/29/2016 23:07:52 Type: QC
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	16.60	21.60	51.97	29.72	50.56	20.08
Stddev	1.98	.87	.26	.12	.20	.14
%RSD	11.92	4.039	.4957	.3892	.3878	.7075
#1	17.23	22.28	52.23	29.67	50.43	20.24
#2	18.19	20.62	51.71	29.63	50.47	20.03
#3	14.38	21.90	51.96	29.85	50.79	19.97

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	51.49	21.69	20.64	F 12.08
Stddev	.60	.10	.06	12.63
%RSD	1.163	.4396	.2782	104.6
#1	51.85	21.80	20.68	-.9926
#2	50.80	21.61	20.67	13.01
#3	51.82	21.68	20.58	24.21

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2985.2	32481.	5017.1
Stddev	5.2	128.	20.8
%RSD	.17277	.39316	.41405
#1	2979.6	32352.	5032.1
#2	2989.6	32483.	4993.3
#3	2986.5	32607.	5025.7

Sample Name: 460-110910-A-1-A Acquired: 3/30/2016 2:13:36 Type: Unk
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	140.0	2.808	.7148	24.17	-.0831	62990.
Stddev	5.7	.783	.5830	.05	.0568	413.
%RSD	4.053	27.90	81.56	.2047	68.35	.6550
#1	133.9	3.321	.3237	24.14	-.0274	62850.
#2	141.1	3.195	.4358	24.23	-.1410	62660.
#3	145.1	1.906	1.385	24.14	-.0811	63450.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.3098	.0156	-.1697	9.151	292.9	3199.
Stddev	.0793	.1567	.4254	.334	16.6	10.
%RSD	25.59	1007.	250.7	3.651	5.653	.3030
#1	.2183	-.0704	.2645	8.909	283.5	3201.
#2	.3576	.1964	-.1879	9.012	283.2	3208.
#3	.3535	-.0793	-.5857	9.532	312.0	3189.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	6717.	2.778	175200.	4.759	-.9149	-.5698
Stddev	35.	.059	881.	.456	.4346	1.557
%RSD	.5147	2.126	.5027	9.580	47.50	273.2
#1	6691.	2.829	176200.	4.799	-1.408	.4747
#2	6703.	2.714	174400.	4.284	-.7471	-2.359
#3	6756.	2.792	175100.	5.193	-.5892	.1750

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110910-A-1-A Acquired: 3/30/2016 2:13:36 Type: Unk
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.2962	2.282	.2036	11.86	24.67	5.845
Stddev	1.163	.236	.2974	.24	.24	.052
%RSD	392.8	10.33	146.1	2.047	.9527	.8974
#1	-1.107	2.524	.2626	11.69	24.91	5.868
#2	-.8185	2.270	-.1189	11.75	24.65	5.785
#3	1.037	2.053	.4672	12.14	24.45	5.882

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.2560	153.7	4.965	2154.
Stddev	.4363	.4	.228	7.
%RSD	170.4	.2301	4.596	.3207
#1	.1780	154.1	4.705	2158.
#2	-.2513	153.5	5.133	2146.
#3	-.6945	153.5	5.058	2159.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2962.5	31695.	5185.2
Stddev	26.3	500.	34.3
%RSD	.88778	1.5779	.66163
#1	2980.4	32025.	5210.4
#2	2974.8	31940.	5198.9
#3	2932.3	31119.	5146.1

Sample Name: 460-110944-B-1-A@2 Acquired: 3/30/2016 2:21:34 Type: Unk
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	614.5	19.52	.7316	48.81	-.1140	66410.
Stddev	5.5	1.33	.1854	.28	.0772	427.
%RSD	.8982	6.823	25.35	.5709	67.71	.6425

#1	613.0	20.92	.5565	48.50	-.1895	66250.
#2	620.6	18.27	.9259	49.04	-.0352	66090.
#3	609.9	19.37	.7124	48.89	-.1172	66900.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.104	1.259	10.49	226.3	1704.	17330.
Stddev	.068	.141	.39	.6	12.	71.
%RSD	2.180	11.21	3.683	.2559	.7146	.4105

#1	3.053	1.420	10.46	225.7	1691.	17240.
#2	3.181	1.157	10.12	226.7	1706.	17370.
#3	3.079	1.199	10.89	226.6	1715.	17370.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4918.	81.33	63560.	19.33	60.05	96.42
Stddev	21.	.52	366.	.27	.43	.72
%RSD	.4263	.6392	.5759	1.403	.7208	.7515

#1	4905.	81.17	63150.	19.04	60.44	97.19
#2	4907.	80.91	63660.	19.58	60.12	96.32
#3	4942.	81.91	63860.	19.37	59.58	95.76

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110944-B-1-A@2 Acquired: 3/30/2016 2:21:34 Type: Unk
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-3.117	1.309	1.803	282.2	178.7	32.64
Stddev	1.726	.251	.213	2.9	1.0	.37
%RSD	55.35	19.17	11.80	1.042	.5446	1.148
#1	-1.967	1.518	2.020	278.8	178.2	32.25
#2	-2.284	1.031	1.595	284.0	179.8	33.00
#3	-5.102	1.377	1.793	283.8	178.0	32.68

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	4.932	368.8	23.34	3752.
Stddev	.761	.2	.91	36.
%RSD	15.42	.0486	3.905	.9692
#1	5.786	368.9	24.27	3714.
#2	4.328	368.7	22.45	3787.
#3	4.680	369.0	23.30	3756.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2895.3	31687.	5023.9
Stddev	29.3	414.	111.3
%RSD	1.0119	1.3081	2.2146
#1	2928.4	31981.	5107.0
#2	2884.8	31866.	5067.2
#3	2872.6	31213.	4897.5

Sample Name: icsa 4079387 Acquired: 3/29/2016 23:11:46 Type: QC
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	484200.	-8427	2.553	-1.389	-1.1901	493500.
Stddev	2388.	2.663	.364	.243	.0952	2240.
%RSD	.4932	316.0	14.25	17.53	50.11	.4539
#1	486000.	1.171	2.149	-1.399	-.2581	492200.
#2	485100.	-3.862	2.653	-1.626	-.2309	496100.
#3	481500.	.1627	2.856	-1.140	-.0812	492300.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.810	-2.995	-2.610	-4.944	181100.	-35.20
Stddev	.069	.117	.249	.424	749.	34.13
%RSD	2.436	3.897	9.522	8.581	.4136	96.96
#1	2.862	-2.987	-2.893	-4.956	180700.	-56.09
#2	2.733	-3.116	-2.426	-4.514	182000.	-53.69
#3	2.837	-2.883	-2.511	-5.362	180700.	4.185

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	479700.	-3.992	-33.06	-2.213	3.862	1.266
Stddev	1556.	.064	5.90	.698	1.270	4.171
%RSD	.3243	1.606	17.84	31.53	32.89	329.5
#1	480800.	-3.921	-39.66	-1.738	2.526	-3.538
#2	480400.	-4.012	-31.22	-1.887	5.053	3.368
#3	477900.	-4.044	-28.31	-3.014	4.007	3.968

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: icsa 4079387 Acquired: 3/29/2016 23:11:46 Type: QC
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.755	-7.141	2.665	-1.354	-9.380	-1.060
Stddev	1.094	2.371	.516	.181	.305	.583
%RSD	39.71	332.1	19.37	13.39	3.250	54.97
#1	-2.923	-2.879	2.345	-1.358	-9.710	-1.649
#2	-3.755	-1.084	3.260	-1.532	-9.320	-.4836
#3	-1.587	1.820	2.389	-1.170	-9.109	-1.048

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	3.954	-1.314	3.892	13.99
Stddev	1.171	.096	.034	14.81
%RSD	29.60	7.267	.8790	105.8
#1	3.501	-1.247	3.857	-3.038
#2	3.078	-1.424	3.925	21.20
#3	5.283	-1.273	3.894	23.81

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2716.2	28813.	4901.8
Stddev	3.0	168.	40.8
%RSD	.11029	.58142	.83155
#1	2718.9	28958.	4937.2
#2	2716.9	28630.	4857.2
#3	2713.0	28853.	4910.9

Sample Name: CCV Acquired: 3/30/2016 2:25:28 Type: QC
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	127500.	2443.	1205.	10090.	1085.	126600.
Stddev	190.	10.	3.	14.	3.	350.
%RSD	.1492	.3971	.2753	.1339	.2505	.2763

#1	127300.	2444.	1204.	10100.	1082.	126900.
#2	127600.	2432.	1209.	10070.	1086.	126700.
#3	127600.	2451.	1203.	10080.	1088.	126300.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1278.	2596.	5004.	12890.	97410.	53370.
Stddev	2.	4.	7.	45.	195.	41.
%RSD	.1704	.1689	.1448	.3514	.2000	.0777

#1	1280.	2600.	5004.	12920.	97480.	53330.
#2	1276.	2591.	5012.	12910.	97570.	53400.
#3	1278.	2597.	4997.	12840.	97190.	53390.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	122700.	5184.	127800.	2510.	7414.	1027.
Stddev	271.	15.	46.	2.	8.	2.
%RSD	.2207	.2977	.0356	.0702	.1026	.2311

#1	122800.	5195.	127700.	2511.	7422.	1026.
#2	122900.	5191.	127800.	2508.	7408.	1030.
#3	122400.	5166.	127800.	2511.	7410.	1025.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 3/30/2016 2:25:28 Type: QC
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2434.	2404.	2578.	2385.	986.3	2538.
Stddev	8.	16.	11.	4.	1.1	5.
%RSD	.3280	.6551	.4413	.1697	.1149	.1843
#1	2442.	2404.	2589.	2387.	985.5	2540.
#2	2427.	2387.	2578.	2380.	985.7	2533.
#3	2433.	2419.	2566.	2387.	987.6	2542.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1010.	5336.	9822.	9507.
Stddev	3.	7.	23.	211.
%RSD	.2564	.1299	.2388	2.221
#1	1011.	5344.	9797.	9748.
#2	1007.	5332.	9825.	9416.
#3	1013.	5333.	9843.	9356.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2733.4	30278.	4859.3
Stddev	9.8	172.	48.9
%RSD	.35679	.56914	1.0069
#1	2722.5	30128.	4915.3
#2	2736.4	30239.	4837.9
#3	2741.3	30466.	4824.8

Sample Name: icsab 4140570 Acquired: 3/29/2016 23:15:56 Type: QC
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	546800.	100.5	110.5	103.2	111.8	534400.
Stddev	1546.	2.0	1.0	.5	.2	2704.
%RSD	.2828	1.950	.8787	.4817	.1886	.5060
#1	545300.	98.44	110.7	102.8	112.1	533900.
#2	546800.	100.8	109.4	103.1	111.8	532000.
#3	548400.	102.3	111.3	103.8	111.7	537300.

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	104.0	100.5	102.4	111.4	201000.	11490.
Stddev	.2	.5	.6	.8	726.	46.
%RSD	.1444	.5423	.6173	.7340	.3613	.4017
#1	104.0	101.2	102.4	112.3	200400.	11550.
#2	103.8	100.2	101.7	110.7	200700.	11460.
#3	104.1	100.3	103.0	111.2	201800.	11470.

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	524700.	104.3	11140.	94.84	98.72	108.2
Stddev	5831.	.7	9.	.51	.79	4.7
%RSD	1.111	.6691	.0785	.5391	.7966	4.317
#1	520700.	104.7	11140.	95.43	98.08	111.6
#2	522000.	103.5	11130.	94.53	98.48	102.9
#3	531400.	104.8	11150.	94.56	99.60	110.1

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Sample Name: icsab 4140570 Acquired: 3/29/2016 23:15:56 Type: QC
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	102.2	93.76	110.9	92.60	94.79	101.3
Stddev	7.9	1.54	1.8	.63	.89	.3
%RSD	7.693	1.648	1.617	.6836	.9423	.3432
#1	93.30	92.77	111.9	91.90	93.79	101.5
#2	105.1	95.54	108.9	92.77	95.51	101.4
#3	108.2	92.98	112.0	93.13	95.07	100.9

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	103.9	109.8	108.5	62.31
Stddev	1.0	.8	.7	4.63
%RSD	.9301	.6959	.6172	7.437
#1	102.8	110.7	108.4	65.24
#2	104.6	109.6	107.9	64.73
#3	104.3	109.2	109.2	56.97

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2640.8	28431.	4730.1
Stddev	13.1	184.	52.7
%RSD	.49667	.64741	1.1147
#1	2654.6	28464.	4701.0
#2	2628.5	28596.	4791.0
#3	2639.3	28233.	4698.5

Sample Name: 460-110902-D-2-A Acquired: 3/29/2016 23:23:53 Type: Unk
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.869	-.7715	.4153	.0394	-.1276	50.91
Stddev	11.47	1.152	.1185	.0285	.0264	3.76
%RSD	235.6	149.3	28.53	72.30	20.72	7.393
#1	18.11	.5517	.3985	.0642	-.0995	55.25
#2	-2.099	-1.551	.5412	.0457	-.1312	48.98
#3	-1.406	-1.315	.3061	.0083	-.1520	48.51

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0645	-.1214	.2197	.7036	6.289	-7.108
Stddev	.0102	.1761	.2390	.0939	8.038	33.42
%RSD	15.76	145.1	108.8	13.35	127.8	470.2
#1	.0668	-.3246	.2844	.7931	5.738	.7239
#2	.0533	-.0249	-.0451	.6058	-1.459	21.70
#3	.0732	-.0146	.4196	.7118	14.59	-43.75

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	10.57	-.0065	28.28	.4808	-.0356	-1.357
Stddev	3.03	.0608	3.46	.2445	.6279	.681
%RSD	28.65	929.4	12.25	50.85	1765.	50.21
#1	11.22	.0591	31.70	.7595	.0587	-1.975
#2	13.23	-.0609	28.35	.3805	-.7053	-1.469
#3	7.272	-.0178	24.78	.3024	.5398	-.6263

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110902-D-2-A Acquired: 3/29/2016 23:23:53 Type: Unk
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.401	.1454	.0877	.6358	4.595	-.5908
Stddev	1.920	.7194	.3357	.0472	.323	.1843
%RSD	137.1	494.7	383.0	7.432	7.017	31.19
#1	-2.906	-.6273	.0960	.6492	4.910	-.4115
#2	.7616	.7959	.4191	.5833	4.611	-.5813
#3	-2.058	.2676	-.2521	.6748	4.265	-.7796

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.1037	-.0371	-.1865	36.07
Stddev	.7691	.0257	.0634	4.60
%RSD	741.4	69.27	33.99	12.76
#1	-.4787	-.0649	-.2178	41.07
#2	-.6134	-.0324	-.1136	32.02
#3	.7809	-.0141	-.2282	35.13

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2993.8	32703.	4969.5
Stddev	9.0	118.	39.3
%RSD	.30106	.36128	.79039
#1	2987.4	32595.	4932.3
#2	2989.8	32684.	4965.8
#3	3004.1	32829.	5010.5

Sample Name: CCB Acquired: 3/30/2016 2:45:03 Type: QC
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.383	.0637	.5552	.1332	-.1029	41.05
Stddev	3.423	2.214	.6028	.0684	.0626	4.40
%RSD	143.6	3478.	108.6	51.36	60.81	10.72

#1	1.535	2.031	.8465	.1698	-.1467	42.81
#2	-4.795	-2.334	.9571	.0543	-.1308	36.04
#3	-3.891	.4934	-.1379	.1756	-.0312	44.30

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.1429	-.0791	.2736	1.050	-8.076	5.161
Stddev	.0711	.1132	.1913	.216	6.689	40.92
%RSD	49.75	143.2	69.93	20.56	82.82	792.9

#1	.1799	-.0561	.0530	.8181	-2.522	41.31
#2	.0609	.0209	.3942	1.245	-6.205	13.44
#3	.1879	-.2020	.3736	1.087	-15.50	-39.26

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7.260	.1711	57.22	.7250	-1.566	-.3776
Stddev	5.267	.1442	8.50	.1785	1.085	1.180
%RSD	72.55	84.27	14.85	24.62	69.25	312.4

#1	1.276	.0252	64.00	.9147	-2.786	-1.683
#2	9.310	.3136	59.98	.5604	-1.200	.6123
#3	11.19	.1746	47.69	.6998	-.7117	-.0621

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 3/30/2016 2:45:03 Type: QC
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.556	1.818	.0821	-.1849	1.290	.4614
Stddev	1.671	1.359	.2069	.1270	.138	.4325
%RSD	65.36	74.78	251.9	68.67	10.69	93.74
#1	-1.704	.6814	.2489	-.2573	1.144	.9231
#2	-1.484	1.448	.1470	-.2590	1.307	.3954
#3	-4.482	3.323	-.1494	-.0383	1.419	.0657

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.3316	.0196	.4065	-10.24
Stddev	.5506	.1284	.1450	18.74
%RSD	166.1	653.7	35.67	183.0
#1	.1069	.1277	.4878	-23.84
#2	-.0712	.0535	.4926	11.14
#3	.9590	-.1223	.2391	-18.03

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3082.6	32983.	5038.0
Stddev	5.8	115.	36.4
%RSD	.18700	.34724	.72289
#1	3086.7	32851.	5018.0
#2	3076.0	33059.	5080.1
#3	3085.2	33039.	5016.0

Sample Name: 460-110902-D-4-A Acquired: 3/29/2016 23:31:49 Type: Unk
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	155.0	3.192	.4287	29.15	-.1127	19130.
Stddev	18.8	.844	.3147	.06	.1428	73.
%RSD	12.12	26.43	73.39	.2084	126.7	.3805
#1	144.8	3.596	.0689	29.22	-.2775	19050.
#2	143.5	3.758	.6522	29.15	-.0268	19140.
#3	176.7	2.223	.5651	29.09	-.0338	19190.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.4002	1.284	.3010	1.792	2486.	4064.
Stddev	.0369	.072	.4792	.090	21.	21.
%RSD	9.216	5.574	159.2	5.009	.8394	.5186
#1	.4039	1.283	-.2020	1.838	2502.	4044.
#2	.3617	1.212	.7521	1.850	2462.	4061.
#3	.4352	1.356	.3528	1.689	2493.	4086.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2333.	24.17	4757.	4.687	.4939	.7422
Stddev	10.	.05	11.	.382	.3208	.4733
%RSD	.4334	.2133	.2242	8.147	64.96	63.78
#1	2326.	24.11	4756.	4.403	.8262	.2334
#2	2345.	24.21	4768.	5.121	.1859	1.170
#3	2329.	24.18	4747.	4.537	.4695	.8236

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110902-D-4-A Acquired: 3/29/2016 23:31:49 Type: Unk
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-0.0406	-.7454	2.134	80.71	27.06	.3191
Stddev	2.257	1.175	.300	.23	.47	.1602
%RSD	5562.	157.6	14.05	.2904	1.724	50.21
#1	2.247	-.1162	2.170	80.53	26.59	.1673
#2	-.1027	-2.101	2.415	80.98	27.53	.3034
#3	-2.266	-.0192	1.818	80.63	27.05	.4866

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.4234	209.9	4.145	3872.
Stddev	.1591	.8	.057	26.
%RSD	37.57	.3655	1.385	.6771
#1	.4120	209.6	4.079	3891.
#2	.2703	210.7	4.184	3883.
#3	.5878	209.2	4.171	3842.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2952.8	32275.	5010.1
Stddev	10.6	41.	62.7
%RSD	.35901	.12784	1.2523
#1	2947.1	32297.	5078.6
#2	2946.3	32302.	4996.5
#3	2965.0	32228.	4955.3

Sample Name: 460-110902-D-5-A Acquired: 3/29/2016 23:35:48 Type: Unk
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	198.4	1.791	.4565	72.43	-.1468	42300.
Stddev	13.0	1.207	.2092	.11	.1334	278.
%RSD	6.539	67.42	45.83	.1462	90.86	.6568
#1	205.4	.7616	.2618	72.54	-.0586	42050.
#2	206.4	3.120	.6777	72.43	-.0816	42250.
#3	183.5	1.491	.4299	72.33	-.3002	42600.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.1177	-.0914	.1674	2.050	318.9	25460.
Stddev	.0593	.3390	.2134	.270	4.1	45.
%RSD	50.42	370.9	127.5	13.15	1.279	.1752
#1	.1817	-.3935	.2782	1.787	323.5	25410.
#2	.0646	.2753	.3026	2.325	317.5	25470.
#3	.1067	-.1561	-.0786	2.037	315.8	25500.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2932.	15.33	4958.	1.131	-.1336	-.1225
Stddev	23.	.07	13.	.248	.2501	.3586
%RSD	.7875	.4292	.2702	21.96	187.3	292.6
#1	2906.	15.29	4966.	1.001	-.3728	.2614
#2	2940.	15.31	4966.	.9747	.1262	-.1801
#3	2950.	15.41	4943.	1.417	-.1540	-.4489

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110902-D-5-A Acquired: 3/29/2016 23:35:48 Type: Unk
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.453	-.6751	-.1231	7.381	23.79	-.3378
Stddev	2.382	1.074	.5344	.146	.40	.3278
%RSD	97.10	159.2	434.0	1.985	1.681	97.03
#1	-5.063	-1.916	.2906	7.548	23.41	.0295
#2	-1.903	-.0654	-.7264	7.273	24.21	-.4423
#3	-.3944	-.0441	.0665	7.323	23.77	-.6007

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.1560	303.7	5.837	3341.
Stddev	.1355	.1	.079	58.
%RSD	86.87	.0173	1.350	1.745
#1	.0988	303.7	5.746	3391.
#2	.3107	303.7	5.884	3277.
#3	.0585	303.7	5.882	3356.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2965.2	32095.	5037.6
Stddev	4.9	180.	91.5
%RSD	.16654	.56214	1.8154
#1	2963.3	32213.	5139.6
#2	2970.8	32184.	4962.9
#3	2961.5	31887.	5010.2

Sample Name: 460-110902-D-8-A Acquired: 3/29/2016 23:43:42 Type: Unk
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	225.2	-.0450	.4558	53.76	-.0944	80990.
Stddev	9.5	3.243	.4708	.29	.1054	285.
%RSD	4.204	7200.	103.3	.5343	111.6	.3524
#1	218.2	1.657	.6716	53.51	.0068	81020.
#2	221.5	-3.784	-.0842	54.07	-.0864	80690.
#3	236.0	1.992	.7800	53.68	-.2036	81260.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.3792	.6917	-.2338	1.958	530.2	4825.
Stddev	.0606	.3350	.1749	.109	8.6	16.
%RSD	15.98	48.43	74.83	5.539	1.626	.3373
#1	.3523	.8730	-.3227	2.079	538.2	4809.
#2	.4486	.3051	-.3463	1.927	521.1	4826.
#3	.3367	.8969	-.0322	1.869	531.3	4842.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3717.	131.0	17420.	2.864	1.098	-.8185
Stddev	11.	.2	47.	.214	1.778	.2109
%RSD	.3009	.1197	.2685	7.471	162.0	25.76
#1	3728.	130.9	17410.	2.979	.0681	-.5855
#2	3716.	130.9	17480.	2.617	.0744	-.8737
#3	3706.	131.2	17390.	2.995	3.151	-.9962

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110902-D-8-A Acquired: 3/29/2016 23:43:42 Type: Unk
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.4198	-.1521	.8903	73.69	46.64	-.2725
Stddev	2.400	1.324	.1980	.11	.51	.2124
%RSD	571.6	870.2	22.24	.1497	1.091	77.94
#1	-2.287	-.7612	.8436	73.81	47.22	-.3607
#2	2.286	-1.061	1.108	73.59	46.27	-.0302
#3	1.261	1.366	.7199	73.66	46.43	-.4265

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.4228	716.0	5.646	4136.
Stddev	.6258	2.1	.111	39.
%RSD	148.0	.2883	1.964	.9513
#1	1.139	717.2	5.590	4171.
#2	.1498	717.2	5.573	4144.
#3	-.0202	713.6	5.773	4094.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2880.2	31605.	4938.0
Stddev	4.5	208.	61.0
%RSD	.15786	.65916	1.2349
#1	2885.4	31621.	4963.4
#2	2878.5	31804.	4982.1
#3	2876.8	31389.	4868.4

Sample Name: CCB Acquired: 3/29/2016 23:55:16 Type: QC
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	26.83	1.351	.3746	3.424	.1227	28.95
Stddev	50.87	1.884	.1121	6.002	.5414	1.37
%RSD	189.6	139.4	29.94	175.3	441.4	4.726

#1	8.537	3.510	.2456	10.36	-.1369	28.23
#2	84.31	.0372	.4492	-.0164	.7449	28.08
#3	-12.36	.5069	.4289	-.0656	-.2401	30.52

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.6353	.9305	.0296	.4883	2.147	7.953
Stddev	.8615	1.453	.4648	.2353	5.427	40.09
%RSD	135.6	156.1	1568.	48.19	252.8	504.1

#1	1.624	2.595	.5387	.4881	-2.818	-1.413
#2	.0493	-.0810	-.0778	.2531	7.942	51.90
#3	.2321	.2771	-.3720	.7237	1.318	-26.63

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.087	.0241	51.94	1.157	1.263	.9151
Stddev	2.665	.0669	46.70	1.570	4.571	.3725
%RSD	127.7	277.6	89.92	135.7	362.0	40.70

#1	-.9841	-.0518	24.43	2.969	6.520	.9505
#2	3.454	.0748	105.9	.2250	-.9528	1.269
#3	3.791	.0493	25.52	.2767	-1.779	.5262

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 3/29/2016 23:55:16 Type: QC
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.9573	2.464	.0239	.6215	1.144	1.535
Stddev	2.869	2.062	.1106	1.567	.998	1.971
%RSD	299.7	83.67	463.1	252.2	87.24	128.5
#1	2.186	4.810	.1251	2.411	2.250	3.806
#2	-1.623	.9372	.0407	-.5052	.3113	.2681
#3	-3.435	1.646	-.0942	-.0420	.8703	.5299

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.1367	1.229	.1633	.6485
Stddev	.5845	2.150	.1147	13.26
%RSD	427.5	174.9	70.27	2044.
#1	.0486	-.0691	.1988	2.094
#2	-.3987	3.711	.0350	-13.27
#3	.7603	.0462	.2561	13.12

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3005.5	32471.	4984.7
Stddev	6.1	39.	41.8
%RSD	.20285	.12131	.83872
#1	3012.1	32512.	5022.0
#2	3004.5	32433.	4939.5
#3	3000.0	32470.	4992.7

Sample Name: 460-110902-D-10-A Acquired: 3/30/2016 0:03:14 Type: Unk
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	166.0	7.396	1.025	64.09	-.1144	52890.
Stddev	7.0	.815	.205	.22	.1503	185.
%RSD	4.191	11.02	19.98	.3448	131.4	.3493
#1	162.8	6.458	1.075	64.27	-.1176	52930.
#2	161.3	7.791	.7994	64.16	-.2631	53050.
#3	174.0	7.937	1.199	63.84	.0375	52690.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0191	-.0615	.6417	.8547	29200.	20160.
Stddev	.0938	.1701	.1341	.0813	135.	54.
%RSD	491.2	276.6	20.89	9.518	.4628	.2669
#1	-.0830	-.2575	.7524	.9465	29340.	20170.
#2	.0389	.0467	.4927	.7917	29180.	20110.
#3	.1014	.0263	.6802	.8258	29070.	20210.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4631.	258.6	24110.	.9051	6.237	-.4255
Stddev	9.	1.4	67.	.3395	1.141	.7458
%RSD	.1935	.5531	.2766	37.51	18.30	175.3
#1	4628.	259.5	24160.	.6023	5.562	-1.103
#2	4641.	259.2	24030.	.8408	7.555	.3738
#3	4624.	256.9	24140.	1.272	5.595	-.5475

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110902-D-10-A Acquired: 3/30/2016 0:03:14 Type: Unk
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0385	.1737	1.712	2.178	36.75	.1463
Stddev	2.013	1.430	.074	.228	.40	.0680
%RSD	5234.	823.4	4.299	10.46	1.075	46.50
#1	2.298	-.0647	1.760	2.012	36.55	.1919
#2	-1.564	1.708	1.748	2.438	37.20	.0681
#3	-.6183	-1.122	1.627	2.085	36.49	.1788

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.2047	282.8	5.609	3236.
Stddev	.7980	.6	.164	34.
%RSD	389.8	.2072	2.920	1.045
#1	1.048	282.3	5.429	3250.
#2	.1057	282.6	5.648	3260.
#3	-.5392	283.5	5.750	3197.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2955.9	31680.	5004.2
Stddev	12.9	55.	38.9
%RSD	.43646	.17448	.77733
#1	2950.8	31706.	5008.2
#2	2946.4	31617.	5041.0
#3	2970.6	31718.	4963.5

Sample Name: 460-111114-E-1-A@2 Acquired: 3/30/2016 0:11:08 Type: Unk
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	369.9	3.143	1.246	415.5	-.0599	160600.
Stddev	6.9	1.485	.113	1.9	.0647	992.
%RSD	1.852	47.24	9.052	.4656	108.0	.6173

#1	369.1	4.482	1.121	414.4	-.0668	160700.
#2	377.1	3.401	1.339	414.3	-.1208	159600.
#3	363.4	1.546	1.277	417.7	.0080	161600.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.4360	-.8878	1.512	.7335	39810.	22600.
Stddev	.0800	.1523	.252	.2319	111.	57.
%RSD	18.35	17.15	16.67	31.61	.2795	.2525

#1	.3777	-1.061	1.297	.6638	39900.	22560.
#2	.5272	-.7744	1.789	.5445	39690.	22570.
#3	.4032	-.8281	1.450	.9922	39840.	22660.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	17920.	636.8	F 1977000.	1.183	2.702	-1.498
Stddev	72.	3.9	41740.	.712	1.635	1.075
%RSD	.4008	.6097	2.111	60.23	60.51	71.81

#1	17930.	637.1	2025000.	.3712	3.880	-1.217
#2	17850.	632.8	1950000.	1.705	.8353	-2.685
#3	17990.	640.5	1957000.	1.472	3.390	-.5901

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Sample Name: 460-111114-E-1-A@2 Acquired: 3/30/2016 0:11:08 Type: Unk
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	- .6809	-1.760	2.646	48.65	96.79	.2201
Stddev	1.831	1.774	.168	.47	1.55	.1746
%RSD	268.9	100.8	6.364	.9712	1.597	79.34
#1	-2.746	-2.554	2.555	48.18	95.62	.0890
#2	.7444	-2.999	2.840	48.64	96.21	.1530
#3	-.0416	.2728	2.543	49.13	98.54	.4183

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.6760	1107.	7.832	3900.
Stddev	1.044	2.	.046	57.
%RSD	154.4	.1733	.5871	1.468
#1	-.2342	1106.	7.780	3853.
#2	1.815	1106.	7.853	3883.
#3	.4471	1109.	7.865	3964.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2594.0	27258.	4814.3
Stddev	4.5	61.	43.3
%RSD	.17413	.22477	.89959
#1	2591.7	27211.	4769.6
#2	2591.1	27327.	4817.1
#3	2599.2	27236.	4856.1

Sample Name: 460-111114-E-2-A@2 Acquired: 3/30/2016 0:15:13 Type: Unk
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	161.8	-8299	1.159	254.3	-0069	60260.
Stddev	11.9	.7631	.204	.6	.0335	479.
%RSD	7.331	91.96	17.59	.2359	486.0	.7947

#1	174.8	-1.142	1.283	255.0	.0007	60760.
#2	159.1	.0399	1.271	254.2	-.0435	60210.
#3	151.5	-1.387	.9239	253.9	.0221	59800.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.2282	-1.321	1.825	.4128	41340.	9066.
Stddev	.1080	.152	.284	.5638	252.	6.
%RSD	47.31	11.52	15.55	136.6	.6093	.0688

#1	.3089	-1.491	1.543	.8331	41610.	9058.
#2	.2701	-1.198	1.820	-.2279	41300.	9068.
#3	.1056	-1.274	2.111	.6331	41110.	9070.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	29990.	140.8	F 1233000.	.4867	2.165	.3843
Stddev	247.	1.2	9530.	.2096	.113	1.558
%RSD	.8242	.8282	.7729	43.07	5.237	405.3

#1	30260.	141.8	1226000.	.6445	2.043	1.196
#2	29960.	141.2	1244000.	.5668	2.186	1.368
#3	29760.	139.5	1229000.	.2488	2.267	-1.411

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Sample Name: 460-111114-E-2-A@2 Acquired: 3/30/2016 0:15:13 Type: Unk
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.076	-1.071	1.716	6.401	32.50	.0697
Stddev	.575	1.545	.228	.052	.44	.1432
%RSD	53.42	144.3	13.28	.8176	1.358	205.6
#1	1.671	-1.675	1.608	6.392	32.00	-.0957
#2	1.034	-2.223	1.978	6.457	32.83	.1514
#3	.5238	.6848	1.562	6.353	32.66	.1533

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.2751	630.9	9.652	9042.
Stddev	.2390	2.2	.013	80.
%RSD	86.85	.3504	.1311	.8864
#1	.0939	633.4	9.667	9125.
#2	.1856	629.6	9.644	9035.
#3	.5459	629.6	9.646	8965.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2710.1	28547.	4858.4
Stddev	2.6	160.	6.4
%RSD	.09426	.56052	.13167
#1	2707.3	28369.	4858.4
#2	2712.3	28595.	4864.8
#3	2710.7	28678.	4852.0

Sample Name: 460-111114-E-3-A Acquired: 3/30/2016 0:19:18 Type: Unk
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	404.9	2.205	.3770	28.80	-.1304	42390.
Stddev	6.8	.810	.2595	.09	.1006	325.
%RSD	1.678	36.71	68.83	.3262	77.20	.7661
#1	410.9	1.559	.6739	28.88	-.2426	42750.
#2	397.5	1.943	.2631	28.70	-.0482	42110.
#3	406.1	3.114	.1940	28.81	-.1002	42320.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.3323	-.0604	1.537	5.588	320.6	3110.
Stddev	.1040	.1289	.154	.532	7.4	19.
%RSD	31.30	213.4	10.02	9.527	2.319	.5997
#1	.4454	.0116	1.609	6.122	317.1	3120.
#2	.3107	-.2092	1.641	5.057	315.5	3088.
#3	.2408	.0163	1.360	5.586	329.1	3121.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2599.	11.24	110100.	1.832	1.427	.1106
Stddev	22.	.09	204.	.538	1.019	.6705
%RSD	.8634	.7848	.1854	29.39	71.45	606.5
#1	2625.	11.32	110200.	2.025	.4048	.8586
#2	2585.	11.14	110300.	1.224	1.432	-.0903
#3	2587.	11.25	109900.	2.247	2.443	-.4366

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111114-E-3-A Acquired: 3/30/2016 0:19:18 Type: Unk
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.737	.9116	1.460	9.562	39.29	.7199
Stddev	.234	2.038	.211	.318	.22	.0842
%RSD	8.531	223.5	14.43	3.327	.5501	11.70
#1	-2.811	.1333	1.302	9.261	39.11	.7931
#2	-2.475	3.224	1.699	9.531	39.22	.6278
#3	-2.924	-.6224	1.378	9.894	39.53	.7388

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.8972	290.0	6.878	2344.
Stddev	.3545	1.1	.113	27.
%RSD	39.51	.3727	1.645	1.153
#1	1.168	291.2	6.907	2319.
#2	.4959	289.6	6.973	2339.
#3	1.028	289.1	6.753	2372.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2923.3	31608.	4976.4
Stddev	6.0	435.	78.4
%RSD	.20642	1.3761	1.5756
#1	2916.5	31109.	4890.3
#2	2925.5	31907.	4995.2
#3	2927.9	31808.	5043.7

Sample Name: 460-111114-E-4-A Acquired: 3/30/2016 0:23:17 Type: Unk
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	386.7	-.0730	.6890	35.77	-.1692	21720.
Stddev	6.5	.4712	.1770	.08	.0414	54.
%RSD	1.679	645.9	25.69	.2139	24.45	.2484

#1	382.7	.3504	.8235	35.68	-.2002	21660.
#2	383.2	.0114	.7551	35.83	-.1222	21760.
#3	394.2	-.5807	.4885	35.79	-.1851	21740.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.1438	-.2555	5.244	.9294	5470.	1917.
Stddev	.0310	.1023	.220	.1900	5.	12.
%RSD	21.53	40.05	4.203	20.44	.0907	.6088

#1	.1532	-.2498	5.415	.8527	5474.	1918.
#2	.1092	-.3606	5.321	.7897	5464.	1904.
#3	.1689	-.1562	4.995	1.146	5472.	1928.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1660.	79.91	80500.	1.014	-.0110	-1.079
Stddev	6.	.15	345.	.342	.4343	.964
%RSD	.3526	.1931	.4291	33.73	3951.	89.35

#1	1661.	79.74	80870.	1.372	-.2324	-.1807
#2	1654.	80.04	80190.	.9809	-.2899	-2.097
#3	1666.	79.96	80450.	.6901	.4894	-.9586

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111114-E-4-A Acquired: 3/30/2016 0:23:17 Type: Unk
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.297	.1559	4.755	4.465	69.46	-.3528
Stddev	2.298	.7768	.483	.232	.33	.1990
%RSD	177.2	498.3	10.17	5.195	.4755	56.41
#1	-3.631	-.1786	4.574	4.324	69.79	-.4666
#2	.9619	1.044	4.388	4.339	69.13	-.4688
#3	-1.220	-.3976	5.303	4.733	69.45	-.1230

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.1274	190.2	6.827	3403.
Stddev	.3958	1.3	.051	10.
%RSD	310.8	.7001	.7427	.3022
#1	.0702	190.6	6.811	3396.
#2	-.2368	188.7	6.884	3415.
#3	.5486	191.3	6.787	3399.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2969.0	31943.	4988.3
Stddev	3.0	140.	37.0
%RSD	.09964	.43783	.74112
#1	2968.2	32102.	4945.6
#2	2966.4	31890.	5009.5
#3	2972.2	31838.	5009.8

Sample Name: 460-111114-E-6-A Acquired: 3/30/2016 0:31:21 Type: Unk
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-3.980	.3738	.4999	.0352	-.2969	42.46
Stddev	7.141	.7980	.3275	.0222	.0740	1.12
%RSD	179.4	213.5	65.52	63.05	24.94	2.640
#1	2.984	.0811	.3113	.0413	-.3108	41.18
#2	-11.29	-.2364	.8781	.0106	-.3629	42.95
#3	-3.639	1.277	.3104	.0537	-.2168	43.25

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.1143	.1273	-.1710	.4855	-3.023	40.85
Stddev	.0322	.3829	.3318	.0967	4.773	4.92
%RSD	28.16	300.8	194.1	19.92	157.9	12.04
#1	.1355	.5661	-.5224	.5955	-8.505	46.49
#2	.1301	-.0445	.1371	.4137	-.7786	38.61
#3	.0772	-.1397	-.1278	.4473	.2145	37.46

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.124	-.0240	180.2	.3794	-1.023	.2234
Stddev	2.386	.0682	18.0	.3527	.483	.8471
%RSD	112.3	284.6	9.974	92.95	47.25	379.1
#1	3.788	.0298	198.9	.1326	-1.338	-.1677
#2	3.195	-.1006	163.1	.2224	-.4666	-.3574
#3	-.6100	-.0011	178.6	.7834	-1.265	1.195

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111114-E-6-A Acquired: 3/30/2016 0:31:21 Type: Unk
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.421	-.1101	-.0914	.7102	6.910	-.5505
Stddev	3.469	2.349	.6261	.2652	.254	.2359
%RSD	143.3	2133.	685.2	37.34	3.680	42.86
#1	-6.327	.6025	-.5855	.5289	7.026	-.2788
#2	.3002	-2.733	-.3014	1.015	7.085	-.6691
#3	-1.236	1.800	.6128	.5873	6.618	-.7035

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.2500	-.1450	-.0699	33.24
Stddev	.1430	.0950	.0654	13.01
%RSD	57.17	65.53	93.55	39.15
#1	.3076	-.1873	-.0109	18.25
#2	.3552	-.2115	-.0587	39.78
#3	.0873	-.0362	-.1402	41.68

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3004.6	32919.	4988.6
Stddev	12.8	100.	27.7
%RSD	.42445	.30328	.55588
#1	3016.7	32807.	4957.1
#2	2991.3	32951.	4999.3
#3	3005.8	32999.	5009.4

Sample Name: MB 460-358609/1-A Acquired: 3/30/2016 0:39:20 Type: QC

Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-11.44	1.241	.5125	-.0749	-.1347	35.20
Stddev	7.84	1.697	.1917	.0143	.0146	7.24
%RSD	68.53	136.8	37.41	19.08	10.83	20.56

#1	-18.86	-.3426	.6431	-.0804	-.1516	35.38
#2	-3.246	3.033	.6019	-.0586	-.1264	27.88
#3	-12.20	1.033	.2924	-.0856	-.1262	42.35

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.1725	-.0041	-.4274	.6169	-7.399	-7.514
Stddev	.0206	.1195	.0625	.0695	7.497	28.94
%RSD	11.95	2909.	14.62	11.26	101.3	385.1

#1	.1651	-.1176	-.4973	.6085	-5.205	-12.06
#2	.1566	-.0154	-.3772	.6903	-15.75	-33.91
#3	.1958	.1206	-.4076	.5521	-1.243	23.43

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.987	-.0749	75.75	.6225	-.3294	-1.752
Stddev	3.184	.0437	4.64	.3354	.1975	.260
%RSD	160.2	58.34	6.121	53.88	59.95	14.86

#1	.8799	-.0251	81.10	.4337	-.2201	-2.047
#2	-.4957	-.0928	72.93	.4240	-.2107	-1.655
#3	5.577	-.1068	73.21	1.010	-.5573	-1.555

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: MB 460-358609/1-A Acquired: 3/30/2016 0:39:20 Type: QC
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.674	-.4116	-.2760	.2879	-.3387	-.5251
Stddev	2.291	1.137	.5032	.1356	.1887	.0386
%RSD	85.70	276.3	182.3	47.09	55.71	7.345
#1	-4.998	-1.702	.0741	.1488	-.2964	-.5365
#2	-2.606	.4422	-.0495	.2954	-.1747	-.4821
#3	-.4169	.0254	-.8526	.4196	-.5449	-.5566

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.8644	-.0798	-.2026	-7.547
Stddev	.4503	.0021	.0771	29.13
%RSD	52.10	2.653	38.05	386.1
#1	1.341	-.0822	-.1432	16.92
#2	.8060	-.0786	-.1748	.2174
#3	.4462	-.0786	-.2897	-39.78

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3009.4	32654.	4961.8
Stddev	9.7	144.	55.0
%RSD	.32199	.44179	1.1091
#1	3018.3	32783.	4984.4
#2	3010.7	32679.	5002.0
#3	2999.1	32498.	4899.1

Sample Name: CCV Acquired: 3/30/2016 0:43:20 Type: QC
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	124000.	2392.	1169.	9824.	1075.	125500.
Stddev	184.	7.	4.	24.	1.	577.
%RSD	.1481	.2888	.3403	.2405	.1305	.4597

#1	123900.	2385.	1173.	9799.	1075.	126200.
#2	123900.	2398.	1169.	9846.	1073.	125300.
#3	124200.	2392.	1165.	9826.	1076.	125100.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1254.	2556.	4874.	12810.	94540.	52830.
Stddev	3.	4.	12.	45.	493.	110.
%RSD	.2051	.1613	.2524	.3489	.5212	.2074

#1	1252.	2554.	4888.	12860.	95100.	52900.
#2	1257.	2561.	4868.	12790.	94300.	52700.
#3	1255.	2554.	4866.	12770.	94200.	52880.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	120600.	5167.	124900.	2441.	7207.	1008.
Stddev	320.	24.	31.	6.	14.	2.
%RSD	.2649	.4590	.0250	.2315	.1933	.2255

#1	121000.	5194.	124900.	2435.	7191.	1005.
#2	120500.	5159.	124900.	2446.	7218.	1010.
#3	120400.	5148.	124900.	2444.	7212.	1009.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 3/30/2016 0:43:20 Type: QC
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2373.	2317.	2577.	2302.	951.6	2479.
Stddev	7.	12.	13.	5.	3.1	9.
%RSD	.2973	.5379	.5015	.2236	.3286	.3526
#1	2365.	2304.	2592.	2299.	948.4	2470.
#2	2377.	2328.	2573.	2308.	954.7	2486.
#3	2377.	2320.	2567.	2299.	951.7	2482.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	990.4	5306.	9460.	9033.
Stddev	1.6	6.	42.	101.
%RSD	.1577	.1091	.4457	1.121
#1	988.6	5308.	9509.	8939.
#2	991.5	5299.	9441.	9140.
#3	991.0	5311.	9432.	9021.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2789.4	30471.	4906.0
Stddev	13.5	251.	80.0
%RSD	.48475	.82231	1.6304
#1	2775.7	30184.	4817.8
#2	2789.7	30587.	4973.9
#3	2802.7	30643.	4926.2

Sample Name: CCVL Acquired: 3/30/2016 0:51:05 Type: QC
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	226.2	14.20	9.751	205.2	2.002	5127.
Stddev	12.0	.92	.373	.3	.067	41.
%RSD	5.320	6.468	3.820	.1578	3.360	.8007

#1	240.0	13.84	10.16	205.0	2.066	5171.
#2	218.4	13.52	9.441	205.1	1.932	5119.
#3	220.1	15.25	9.647	205.6	2.009	5090.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.339	54.32	10.15	26.33	153.2	5191.
Stddev	.102	.31	.30	.51	6.9	11.
%RSD	2.342	.5643	2.938	1.949	4.504	.2047

#1	4.265	54.50	10.12	26.81	145.3	5199.
#2	4.298	53.96	9.862	26.39	157.0	5196.
#3	4.455	54.49	10.46	25.79	157.5	5179.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4875.	16.51	4980.	42.65	10.14	18.65
Stddev	28.	.24	8.	.23	.54	1.65
%RSD	.5690	1.479	.1569	.5276	5.318	8.822

#1	4899.	16.79	4976.	42.77	9.812	20.23
#2	4882.	16.40	4989.	42.79	10.76	16.94
#3	4844.	16.33	4974.	42.39	9.848	18.78

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 3/30/2016 0:51:05 Type: QC
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	16.61	21.05	52.70	29.04	49.14	19.84
Stddev	2.51	.66	.45	.11	.48	.44
%RSD	15.10	3.152	.8580	.3616	.9728	2.197
#1	18.52	20.94	52.65	29.07	48.62	20.17
#2	17.55	21.76	53.18	29.13	49.57	19.35
#3	13.77	20.45	52.28	28.92	49.23	20.00

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	51.68	21.66	20.21	F -12.79
Stddev	.76	.04	.20	16.19
%RSD	1.471	.1790	1.004	126.6
#1	52.40	21.63	20.21	-13.05
#2	50.88	21.70	20.41	3.532
#3	51.76	21.64	20.01	-28.85

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3028.2	32798.	5010.2
Stddev	4.3	197.	21.0
%RSD	.14062	.59964	.41836
#1	3032.7	32603.	4989.5
#2	3027.7	32794.	5031.4
#3	3024.2	32997.	5009.7

Sample Name: LCS 460-358609/2-A Acquired: 3/30/2016 0:55:02 Type: QC

Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1956.	1815.	45.99	1899.	52.05	19170.
Stddev	14.	9.	.16	5.	.07	149.
%RSD	.6964	.5151	.3456	.2741	.1311	.7768

#1	1941.	1805.	46.17	1895.	52.08	19320.
#2	1959.	1816.	45.91	1897.	51.98	19020.
#3	1968.	1823.	45.89	1905.	52.11	19170.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	50.02	502.1	196.5	235.8	959.3	18410.
Stddev	.16	1.3	.8	.5	10.7	45.
%RSD	.3270	.2615	.3868	.1983	1.113	.2459

#1	49.96	500.7	196.5	235.6	967.9	18450.
#2	49.89	502.1	195.8	235.5	947.3	18360.
#3	50.21	503.4	197.3	236.4	962.6	18420.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	18520.	498.6	18840.	497.8	487.9	476.3
Stddev	99.	3.2	32.	2.0	2.4	3.1
%RSD	.5365	.6343	.1683	.4008	.4946	.6567

#1	18540.	501.8	18810.	496.4	488.4	473.5
#2	18420.	495.5	18840.	496.9	485.2	475.8
#3	18610.	498.6	18870.	500.1	490.0	479.7

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: LCS 460-358609/2-A Acquired: 3/30/2016 0:55:02 Type: QC

Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1890.	1971.	488.0	480.9	491.0	474.0
Stddev	24.	18.	4.4	1.9	3.7	2.9
%RSD	1.264	.9326	.9047	.3877	.7524	.6052

#1	1864.	1951.	492.9	480.9	487.2	471.6
#2	1898.	1978.	484.5	479.0	491.1	473.4
#3	1909.	1986.	486.6	482.7	494.6	477.2

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	492.2	497.1	468.0	36.95
Stddev	1.1	.4	2.2	22.16
%RSD	.2161	.0772	.4767	59.97

#1	491.0	496.6	466.5	60.10
#2	492.4	497.3	467.0	34.80
#3	493.1	497.3	470.6	15.95

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3016.9	32809.	5058.8
Stddev	10.9	224.	64.3
%RSD	.36082	.68344	1.2719

#1	3018.5	32651.	5006.2
#2	3026.9	33066.	5130.5
#3	3005.3	32710.	5039.6

Sample Name: 460-110793-A-5-B DU Acquired: 3/30/2016 0:58:41 Type: Unk

Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	316.8	2.537	.3553	26.26	-.0768	37230.
Stddev	11.9	1.666	.4109	.12	.0122	149.
%RSD	3.765	65.66	115.6	.4532	15.89	.4002

#1	318.3	2.289	.8286	26.12	-.0628	37400.
#2	327.9	1.010	.1480	26.34	-.0849	37180.
#3	304.2	4.314	.0894	26.32	-.0828	37110.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.2227	.0383	1.197	2.695	56.41	6923.
Stddev	.1362	.2705	.388	.140	5.36	21.
%RSD	61.17	706.5	32.39	5.199	9.499	.3065

#1	.3397	-.1377	.9817	2.815	61.01	6904.
#2	.2551	.3498	.9639	2.729	57.71	6918.
#3	.0732	-.0972	1.644	2.541	50.53	6946.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	10950.	46.76	56940.	9.293	.4259	1.086
Stddev	49.	.13	357.	.379	.6452	.846
%RSD	.4483	.2868	.6271	4.076	151.5	77.87

#1	11010.	46.91	56800.	9.269	-.2727	2.008
#2	10940.	46.66	57350.	8.927	.9994	.3461
#3	10910.	46.70	56680.	9.684	.5510	.9038

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110793-A-5-B DU Acquired: 3/30/2016 0:58:41 Type: Unk

Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.787	2.606	1.439	2.836	121.9	40.51
Stddev	.332	1.100	.332	.098	.7	.34
%RSD	11.89	42.23	23.04	3.437	.5550	.8284

#1	-2.493	3.184	1.630	2.843	121.5	40.14
#2	-2.721	1.337	1.056	2.930	121.5	40.61
#3	-3.146	3.297	1.630	2.735	122.7	40.79

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.0413	195.4	4.453	969.4
Stddev	.6285	1.8	.132	6.3
%RSD	1521.	.9321	2.962	.6512

#1	.6807	194.9	4.317	973.6
#2	-.3395	197.5	4.580	972.5
#3	-.4652	194.0	4.462	962.1

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2956.4	32320.	5023.7
Stddev	22.1	128.	38.2
%RSD	.74614	.39745	.76076

#1	2980.5	32423.	5066.1
#2	2951.4	32361.	5012.9
#3	2937.2	32176.	4992.0

Sample Name: 460-110793-A-5-A Acquired: 3/30/2016 1:02:46 Type: Unk
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	118.9	2.895	.1796	26.44	-.1368	37410.
Stddev	18.3	.571	.2189	.13	.0599	77.
%RSD	15.42	19.71	121.9	.4827	43.76	.2045

#1	131.3	2.317	.4317	26.58	-.1984	37480.
#2	127.5	2.911	.0376	26.38	-.1331	37420.
#3	97.83	3.458	.0695	26.34	-.0789	37330.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.1604	-.2000	.7813	2.504	69.79	6954.
Stddev	.0640	.0647	.2089	.141	4.08	43.
%RSD	39.92	32.37	26.73	5.642	5.847	.6127

#1	.2107	-.1281	.6483	2.377	71.93	6996.
#2	.0883	-.2183	1.022	2.477	65.09	6955.
#3	.1823	-.2536	.6737	2.656	72.36	6911.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	11010.	46.23	57550.	9.449	.5493	1.517
Stddev	30.	.07	185.	.251	.8793	.998
%RSD	.2736	.1424	.3215	2.655	160.1	65.80

#1	11050.	46.19	57350.	9.566	-.0534	1.884
#2	11000.	46.20	57710.	9.619	1.558	.3873
#3	10990.	46.31	57590.	9.160	.1431	2.280

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110793-A-5-A Acquired: 3/30/2016 1:02:46 Type: Unk
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.8863	1.409	1.645	2.770	122.4	40.74
Stddev	2.290	1.395	.121	.070	.8	.20
%RSD	258.3	99.01	7.326	2.509	.6696	.4835
#1	.7483	2.048	1.615	2.822	122.2	40.52
#2	-3.503	2.371	1.777	2.798	123.3	40.86
#3	.0961	-.1911	1.542	2.691	121.7	40.86

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.0662	196.1	4.328	962.2
Stddev	.2433	.6	.041	27.4
%RSD	367.3	.3027	.9520	2.845
#1	.3035	195.6	4.362	949.3
#2	.0779	196.7	4.340	943.8
#3	-.1826	195.9	4.283	993.7

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2917.9	32060.	4938.4
Stddev	15.6	180.	25.5
%RSD	.53411	.56255	.51670
#1	2935.8	32268.	4960.7
#2	2910.4	31957.	4944.0
#3	2907.5	31955.	4910.6

Sample Name: 460-110793-A-5-C MS Acquired: 3/30/2016 1:10:45 Type: Unk

Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2218.	1966.	50.13	2051.	54.78	59870.
Stddev	9.	9.	.28	5.	.27	227.
%RSD	.3964	.4345	.5613	.2264	.5015	.3787

#1	2208.	1956.	50.11	2048.	55.02	59920.
#2	2223.	1967.	49.86	2050.	54.48	59620.
#3	2224.	1973.	50.42	2057.	54.85	60070.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	52.79	529.3	211.1	255.7	1125.	26840.
Stddev	.13	.8	1.6	2.0	6.	88.
%RSD	.2423	.1586	.7586	.7702	.5130	.3263

#1	52.67	528.5	211.6	256.0	1120.	26830.
#2	52.76	529.4	209.3	253.6	1123.	26750.
#3	52.92	530.1	212.4	257.6	1131.	26930.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	31410.	575.4	80650.	535.4	520.0	513.2
Stddev	136.	2.5	462.	2.8	2.1	3.8
%RSD	.4331	.4315	.5729	.5137	.3991	.7450

#1	31360.	575.4	80440.	533.0	518.2	509.5
#2	31300.	573.0	80320.	534.8	519.5	517.2
#3	31560.	577.9	81170.	538.4	522.3	513.0

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110793-A-5-C MS Acquired: 3/30/2016 1:10:45 Type: Unk
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2037.	2082.	523.7	517.9	657.5	548.5
Stddev	5.	9.	4.2	1.5	2.4	1.3
%RSD	.2491	.4215	.8001	.2986	.3629	.2323
#1	2033.	2075.	523.2	516.8	655.3	547.3
#2	2043.	2092.	519.7	517.2	657.2	549.8
#3	2036.	2079.	528.0	519.7	660.0	548.5

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	523.1	726.0	511.1	1077.
Stddev	2.4	2.4	1.4	20.
%RSD	.4589	.3301	.2826	1.900
#1	520.4	725.3	510.3	1055.
#2	524.9	724.0	510.2	1079.
#3	524.0	728.7	512.8	1096.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2890.3	31542.	4978.8
Stddev	25.4	250.	58.5
%RSD	.87929	.79167	1.1744
#1	2916.9	31729.	5011.7
#2	2887.7	31639.	5013.5
#3	2866.3	31259.	4911.3

Sample Name: 460-110793-A-4-A Acquired: 3/30/2016 1:18:03 Type: Unk

Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	105.5	3.023	.0833	25.88	-.1528	37230.
Stddev	11.0	1.077	.1292	.10	.0342	251.
%RSD	10.46	35.63	155.1	.3925	22.38	.6735

#1	112.9	1.790	.2290	25.79	-.1711	37240.
#2	110.8	3.783	-.0173	25.85	-.1739	37480.
#3	92.81	3.496	.0382	25.99	-.1133	36970.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.1854	-.0408	.9589	2.768	48.53	6704.
Stddev	.0600	.0927	.2126	.498	6.88	42.
%RSD	32.37	227.4	22.17	17.99	14.17	.6216

#1	.1483	.0241	1.126	2.866	48.56	6662.
#2	.1532	.0006	1.031	3.210	55.40	6705.
#3	.2546	-.1470	.7195	2.228	41.64	6746.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	10920.	46.46	55790.	8.887	1.029	.6339
Stddev	44.	.19	244.	.147	1.142	1.022
%RSD	.4059	.4170	.4364	1.659	111.0	161.1

#1	10930.	46.46	56050.	8.919	2.332	.4095
#2	10960.	46.66	55760.	8.726	.5554	1.749
#3	10880.	46.27	55570.	9.016	.1999	-.2567

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110793-A-4-A Acquired: 3/30/2016 1:18:03 Type: Unk
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.098	2.173	1.840	3.243	117.6	38.34
Stddev	2.599	1.883	.315	.060	.3	.29
%RSD	123.9	86.65	17.11	1.842	.2813	.7586
#1	-.3069	.1475	2.200	3.245	117.3	38.36
#2	-.9084	3.869	1.616	3.182	118.0	38.04
#3	-5.078	2.501	1.704	3.301	117.6	38.62

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.0329	190.7	4.064	952.6
Stddev	.3452	1.1	.144	23.3
%RSD	1049.	.5968	3.540	2.451
#1	.3238	191.9	4.208	957.5
#2	-.0572	189.6	3.920	927.2
#3	-.3653	190.7	4.064	973.1

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2920.9	31333.	4951.3
Stddev	27.3	354.	96.5
%RSD	.93527	1.1295	1.9482
#1	2931.5	31441.	4943.3
#2	2889.9	30937.	4859.1
#3	2941.4	31620.	5051.5

Sample Name: 460-110645-A-1-A@10 Acquired: 3/30/2016 1:26:11 Type: Unk
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	10.37	.8596	.1031	1.604	-.0567	5761.
Stddev	13.43	.6167	.3564	.081	.1524	15.
%RSD	129.5	71.74	345.7	5.024	268.9	.2580

#1	-3.405	.6852	-.0865	1.662	-.1766	5749.
#2	11.10	1.545	-.1184	1.512	-.1083	5778.
#3	23.42	.3490	.5142	1.637	.1149	5756.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0781	-.1892	3.274	19.46	202.3	640.0
Stddev	.1240	.1912	.409	.29	2.7	14.2
%RSD	158.9	101.1	12.48	1.493	1.335	2.220

#1	.2010	-.1474	3.223	19.66	204.2	625.1
#2	-.0470	-.0223	2.894	19.13	199.2	641.5
#3	.0802	-.3978	3.706	19.60	203.5	653.4

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	443.2	1.562	F 675800.	4.264	-.1647	1.159
Stddev	5.1	.046	1156.	.223	.2546	1.075
%RSD	1.153	2.954	.1711	5.232	154.6	92.73

#1	449.1	1.596	677100.	4.177	-.1061	.2838
#2	440.2	1.509	674900.	4.098	.0556	2.358
#3	440.4	1.580	675400.	4.518	-.4435	.8347

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Sample Name: 460-110645-A-1-A@10 Acquired: 3/30/2016 1:26:11 Type: Unk
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.066	-.1616	1.629	12.08	9.795	.0792
Stddev	1.730	.3696	.661	.15	.452	.0717
%RSD	162.4	228.7	40.58	1.268	4.611	90.50
#1	-.3383	-.1149	2.385	12.22	9.276	.0448
#2	-3.040	-.5524	1.162	12.10	10.01	.1616
#3	.1822	.1825	1.339	11.91	10.09	.0312

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.3778	18.68	7.383	951.1
Stddev	.9713	.20	.173	33.5
%RSD	257.1	1.071	2.338	3.517
#1	.6647	18.77	7.187	969.8
#2	-.7047	18.82	7.513	912.5
#3	1.173	18.45	7.450	971.0

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2772.4	29305.	4864.7
Stddev	4.5	109.	27.4
%RSD	.16212	.37068	.56296
#1	2777.6	29423.	4882.9
#2	2769.6	29209.	4878.1
#3	2770.0	29284.	4833.2

Sample Name: 460-110723-E-1-A@2 Acquired: 3/30/2016 1:30:21 Type: Unk
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1382.	3.064	.7795	88.32	-.0933	229900.
Stddev	40.	.396	.1878	1.40	.1140	2456.
%RSD	2.858	12.92	24.09	1.587	122.1	1.068

#1	1421.	2.922	.5715	89.58	-.0613	231600.
#2	1382.	2.759	.8306	88.56	-.2199	231000.
#3	1342.	3.511	.9365	86.81	.0012	227100.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.991	5.783	6.127	207.0	2080.	27990.
Stddev	.041	.112	.444	2.1	24.	361.
%RSD	2.033	1.930	7.245	1.037	1.159	1.290

#1	2.036	5.903	6.009	208.3	2092.	28320.
#2	1.958	5.683	6.618	208.2	2096.	28030.
#3	1.979	5.762	5.754	204.5	2052.	27610.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	14090.	178.2	85200.	83.94	217.4	2.282
Stddev	119.	2.1	1198.	1.63	3.4	1.243
%RSD	.8420	1.200	1.406	1.936	1.557	54.47

#1	14170.	179.7	86400.	85.34	220.9	3.313
#2	14150.	179.2	85190.	84.32	217.1	2.630
#3	13960.	175.8	84010.	82.16	214.1	.9020

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110723-E-1-A@2 Acquired: 3/30/2016 1:30:21 Type: Unk
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-3.207	1.286	7.126	441.8	305.4	125.7
Stddev	1.554	1.126	.437	6.3	4.1	1.8
%RSD	48.44	87.54	6.139	1.425	1.331	1.439
#1	-5.001	1.283	7.582	447.4	309.3	127.1
#2	-2.325	.1619	7.087	443.0	305.7	126.4
#3	-2.295	2.414	6.709	435.0	301.2	123.7

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	10.80	1189.	45.90	4619.
Stddev	.45	18.	.70	14.
%RSD	4.150	1.476	1.534	.2964
#1	10.52	1205.	46.63	4632.
#2	11.32	1191.	45.82	4605.
#3	10.57	1170.	45.23	4621.

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2811.5	30814.	4977.1
Stddev	8.8	105.	56.6
%RSD	.31368	.34083	1.1365
#1	2803.3	30789.	4938.7
#2	2810.2	30723.	4950.5
#3	2820.8	30929.	5042.0

Sample Name: CCV Acquired: 3/30/2016 1:34:14 Type: QC
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	126800.	2451.	1210.	10050.	1069.	128500.
Stddev	155.	5.	5.	20.	2.	666.
%RSD	.1223	.2166	.3963	.1960	.1829	.5185

#1	127000.	2455.	1206.	10070.	1070.	127700.
#2	126900.	2454.	1215.	10060.	1070.	129000.
#3	126700.	2445.	1209.	10030.	1067.	128700.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1280.	2579.	5048.	12840.	99040.	52460.
Stddev	1.	.	19.	80.	431.	86.
%RSD	.0726	.0186	.3736	.6263	.4349	.1646

#1	1280.	2580.	5038.	12750.	98650.	52360.
#2	1280.	2579.	5070.	12870.	99500.	52520.
#3	1279.	2579.	5036.	12900.	98950.	52500.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	124300.	5233.	126600.	2506.	7448.	1013.
Stddev	685.	28.	52.	6.	15.	4.
%RSD	.5509	.5434	.0409	.2404	.2053	.3549

#1	123600.	5200.	126600.	2511.	7465.	1017.
#2	124900.	5246.	126600.	2509.	7445.	1013.
#3	124500.	5252.	126700.	2500.	7435.	1010.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 3/30/2016 1:34:14 Type: QC
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2448.	2421.	2602.	2433.	977.2	2516.
Stddev	14.	10.	16.	5.	6.5	6.
%RSD	.5559	.4239	.5985	.2069	.6685	.2232
#1	2457.	2429.	2585.	2438.	983.0	2518.
#2	2454.	2409.	2608.	2432.	978.3	2521.
#3	2432.	2423.	2614.	2428.	970.1	2510.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1011.	5275.	9916.	9432.
Stddev	2.	6.	26.	150.
%RSD	.1668	.1213	.2623	1.590
#1	1011.	5269.	9938.	9502.
#2	1012.	5274.	9923.	9260.
#3	1009.	5282.	9887.	9535.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2756.0	30109.	4868.6
Stddev	16.2	136.	45.2
%RSD	.58633	.45094	.92883
#1	2737.4	30112.	4863.3
#2	2763.4	29972.	4826.3
#3	2767.1	30243.	4916.2

Sample Name: CCB Acquired: 3/30/2016 1:37:59 Type: QC
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-8.182	.6820	.2975	.0718	-.0439	33.65
Stddev	15.71	1.285	.2810	.0498	.1395	5.37
%RSD	192.0	188.4	94.45	69.33	317.6	15.95

#1	-4.480	1.729	.6147	.1268	-.1983	31.26
#2	-25.41	1.069	.1979	.0298	-.0064	39.80
#3	5.347	-.7519	.0799	.0588	.0730	29.89

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.1556	-.0270	-.1553	.5949	7.596	8.898
Stddev	.0269	.2115	.2681	.3035	5.108	15.19
%RSD	17.27	783.4	172.6	51.02	67.25	170.7

#1	.1814	.0370	-.4596	.7569	6.086	25.52
#2	.1575	.1451	-.0526	.7830	13.29	5.445
#3	.1278	-.2631	.0463	.2448	3.413	-4.269

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.302	.0345	81.54	.0939	-.0893	-.5973
Stddev	1.833	.0631	15.52	.0872	.2491	.4478
%RSD	42.61	183.0	19.03	92.89	279.0	74.98

#1	3.420	-.0358	99.46	.0021	-.0748	-.7433
#2	6.409	.0863	72.78	.1757	.1523	-.9539
#3	3.077	.0530	72.39	.1038	-.3454	-.0947

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 3/30/2016 1:37:59 Type: QC
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.865	.3211	.3144	-.1266	1.349	.6798
Stddev	1.881	1.140	.3502	.0960	.730	.3157
%RSD	65.66	355.0	111.4	75.79	54.12	46.44
#1	-2.411	1.220	.2294	-.1046	2.151	1.020
#2	-1.252	.7048	.0145	-.0436	1.172	.6223
#3	-4.931	-.9612	.6992	-.2317	.7235	.3968

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.5311	.0114	.1533	10.01
Stddev	.7892	.0940	.1543	11.60
%RSD	148.6	823.7	100.7	115.9
#1	.8149	.1065	.1287	20.33
#2	1.139	-.0814	.3184	12.25
#3	-.3607	.0091	.0128	-2.550

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2994.3	31891.	4793.2
Stddev	2.2	59.	68.5
%RSD	.07352	.18588	1.4300
#1	2994.9	31956.	4747.0
#2	2991.8	31876.	4871.9
#3	2996.1	31840.	4760.6

Sample Name: CCVL Acquired: 3/30/2016 1:42:00 Type: QC
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	229.5	13.82	10.11	211.2	2.098	5252.
Stddev	4.9	.96	.23	.5	.068	36.
%RSD	2.134	6.920	2.242	.2392	3.260	.6851

#1	225.9	12.85	10.26	211.3	2.019	5288.
#2	235.0	13.84	10.22	211.7	2.144	5216.
#3	227.5	14.76	9.849	210.7	2.131	5253.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.384	55.23	10.64	25.92	167.2	5182.
Stddev	.071	.17	.12	.31	8.3	32.
%RSD	1.625	.3067	1.083	1.181	4.978	.6170

#1	4.466	55.42	10.51	25.74	176.4	5219.
#2	4.335	55.10	10.72	25.75	160.1	5164.
#3	4.352	55.17	10.70	26.28	165.2	5163.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5048.	16.66	5129.	43.87	11.45	19.08
Stddev	31.	.14	15.	.20	1.25	.90
%RSD	.6169	.8261	.2919	.4660	10.93	4.737

#1	5078.	16.81	5146.	44.05	12.70	19.17
#2	5016.	16.57	5122.	43.65	11.46	18.13
#3	5051.	16.58	5119.	43.91	10.19	19.93

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 3/30/2016 1:42:00 Type: QC
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	16.72	20.86	53.20	30.74	51.20	20.22
Stddev	1.49	.70	.20	.18	.56	.14
%RSD	8.939	3.343	.3793	.5882	1.090	.7128

#1	17.03	21.10	52.97	30.79	50.57	20.30
#2	15.09	20.08	53.34	30.54	51.39	20.32
#3	18.03	21.41	53.29	30.89	51.63	20.06

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	53.12	21.53	21.24	F 8.514
Stddev	.80	.13	.14	31.55
%RSD	1.498	.6015	.6366	370.5

#1	52.54	21.62	21.16	35.72
#2	52.80	21.60	21.15	-26.07
#3	54.03	21.38	21.39	15.90

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2983.6	32358.	4938.1
Stddev	39.2	581.	121.4
%RSD	1.3128	1.7965	2.4585

#1	2938.6	31689.	4798.0
#2	3010.0	32743.	5009.9
#3	3002.2	32641.	5006.5

Sample Name: 460-110694-E-1-A@2 Acquired: 3/30/2016 1:45:57 Type: Unk
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	188.1	2.302	.4818	60.07	-.1206	35880.
Stddev	10.6	.590	.1373	.04	.0584	67.
%RSD	5.654	25.61	28.51	.0613	48.42	.1875
#1	185.7	1.830	.3659	60.07	-.1132	35940.
#2	178.9	2.963	.6335	60.03	-.0663	35890.
#3	199.8	2.113	.4459	60.10	-.1824	35810.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.5123	.4662	2.664	21.87	2327.	20330.
Stddev	.0984	.0433	.342	.31	11.	31.
%RSD	19.20	9.284	12.85	1.423	.4698	.1510
#1	.5669	.4226	2.302	21.74	2316.	20340.
#2	.3988	.5091	2.983	22.22	2327.	20300.
#3	.5713	.4669	2.707	21.64	2338.	20350.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	11470.	108.5	146900.	12.63	10.04	.0843
Stddev	17.	.3	313.	.56	.77	1.530
%RSD	.1489	.3121	.2133	4.417	7.658	1814.
#1	11490.	108.1	147200.	12.07	9.158	.5068
#2	11470.	108.7	146700.	13.19	10.37	1.358
#3	11460.	108.6	146700.	12.63	10.58	-1.612

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110694-E-1-A@2 Acquired: 3/30/2016 1:45:57 Type: Unk
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.329	1.394	2.861	16.66	1474.	21.13
Stddev	2.131	1.856	.230	.30	3.	.22
%RSD	160.4	133.2	8.037	1.804	.2243	1.062
#1	-3.513	.9334	3.106	16.99	1470.	21.15
#2	.7442	3.436	2.649	16.40	1476.	21.34
#3	-1.218	-.1889	2.827	16.58	1475.	20.89

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.4421	294.7	9.048	1136.
Stddev	.4552	.8	.212	26.
%RSD	103.0	.2796	2.339	2.263
#1	.0342	294.2	8.952	1131.
#2	.3590	294.4	9.291	1114.
#3	.9332	295.7	8.901	1164.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2947.6	31971.	5100.2
Stddev	5.3	51.	39.7
%RSD	.17927	.15915	.77924
#1	2953.4	32029.	5055.8
#2	2946.2	31948.	5132.4
#3	2943.1	31936.	5112.3

Sample Name: 460-110778-A-2-A@10 Acquired: 3/30/2016 1:49:55 Type: Unk
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	27.69	1.127	.8013	6.031	-.1256	8226.
Stddev	4.66	1.326	.3281	.032	.0339	45.
%RSD	16.84	117.6	40.95	.5217	26.98	.5416

#1	22.37	.8903	1.015	5.999	-.1459	8234.
#2	31.10	2.556	.4234	6.062	-.0865	8266.
#3	29.59	-.0644	.9653	6.032	-.1443	8178.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.1478	-.2123	3.140	12.70	172.6	3261.
Stddev	.0655	.1623	.092	.35	9.5	43.
%RSD	44.31	76.45	2.941	2.732	5.524	1.316

#1	.1330	-.0896	3.036	12.44	181.1	3216.
#2	.0910	-.3964	3.170	13.09	162.3	3301.
#3	.2194	-.1510	3.214	12.57	174.5	3266.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	917.9	.4518	F 697600.	4.557	.0646	-.6096
Stddev	11.1	.0343	7805.	.380	1.116	.4732
%RSD	1.209	7.602	1.119	8.346	1728.	77.61

#1	923.2	.4740	691200.	4.343	1.290	-1.002
#2	925.4	.4691	706300.	4.333	-.2029	-.0842
#3	905.2	.4122	695200.	4.996	-.8930	-.7425

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Sample Name: 460-110778-A-2-A@10 Acquired: 3/30/2016 1:49:55 Type: Unk
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.367	2.008	1.377	1.571	12.15	.8767
Stddev	.903	.266	.473	.246	.84	.1642
%RSD	66.04	13.25	34.35	15.65	6.904	18.73
#1	-.5421	1.994	1.220	1.365	12.76	.7334
#2	-1.227	2.281	1.908	1.504	12.49	.8409
#3	-2.331	1.749	1.002	1.843	11.19	1.056

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.4849	44.77	14.48	876.1
Stddev	.5206	.39	.11	12.7
%RSD	107.4	.8685	.7532	1.444
#1	.8822	44.65	14.40	890.1
#2	-.1045	45.20	14.45	865.5
#3	.6769	44.45	14.61	872.7

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2826.6	29720.	4926.1
Stddev	12.9	161.	57.4
%RSD	.45552	.54175	1.1647
#1	2834.3	29631.	4987.4
#2	2833.8	29624.	4917.4
#3	2811.8	29906.	4873.6

Sample Name: 460-110803-A-1-A Acquired: 3/30/2016 1:54:04 Type: Unk
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	78.91	-.2126	.3113	53.35	-.0830	23630.
Stddev	8.00	1.315	.4386	.12	.1378	71.
%RSD	10.14	618.3	140.9	.2219	166.0	.3017
#1	86.30	-.7719	-.0485	53.33	-.0017	23550.
#2	70.42	-1.155	.1824	53.25	-.0052	23670.
#3	80.02	1.289	.7999	53.48	-.2421	23680.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	53.57	.3040	46.74	23.88	47.69	3757.
Stddev	.04	.0493	.22	.28	4.86	15.
%RSD	.0778	16.23	.4767	1.176	10.18	.4000
#1	53.59	.3052	46.65	23.61	43.26	3742.
#2	53.52	.2540	46.57	23.86	52.88	3759.
#3	53.60	.3527	46.99	24.17	46.91	3772.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5806.	63.96	32140.	23.72	.6151	-.7164
Stddev	24.	.34	48.	.10	1.890	.1170
%RSD	.4064	.5331	.1501	.4305	307.3	16.34
#1	5787.	63.58	32110.	23.66	2.202	-.6362
#2	5798.	64.05	32200.	23.66	1.119	-.6623
#3	5832.	64.25	32120.	23.84	-1.476	-.8507

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110803-A-1-A Acquired: 3/30/2016 1:54:04 Type: Unk
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.759	1.837	.0253	111.4	74.61	-.1693
Stddev	.716	1.081	.1682	.4	.53	.0570
%RSD	25.94	58.85	663.5	.4013	.7094	33.70
#1	-3.555	2.063	.0941	111.9	74.70	-.1133
#2	-2.167	2.786	.1483	111.4	74.04	-.1672
#3	-2.556	.6606	-.1663	111.0	75.09	-.2273

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.0998	135.4	3.024	4323.
Stddev	.0942	.2	.358	12.
%RSD	94.35	.1109	11.86	.2727
#1	.1541	135.3	2.701	4333.
#2	.1542	135.4	2.960	4326.
#3	-.0089	135.6	3.410	4310.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3002.4	32516.	5033.6
Stddev	18.0	369.	45.0
%RSD	.59855	1.1356	.89417
#1	3023.1	32912.	5085.1
#2	2993.3	32455.	5013.7
#3	2990.8	32181.	5002.0

Sample Name: 460-110803-A-1-B MS Acquired: 3/30/2016 1:57:58 Type: Unk
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2060.	1860.	47.76	1988.	53.05	42940.
Stddev	23.	5.	.65	4.	.29	150.
%RSD	1.138	.2693	1.359	.1951	.5385	.3487
#1	2071.	1864.	48.50	1992.	53.31	43030.
#2	2076.	1862.	47.29	1988.	52.74	43030.
#3	2033.	1855.	47.48	1984.	53.09	42770.

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	102.8	508.2	248.1	266.1	1031.	22560.
Stddev	.2	1.1	.6	1.7	11.	107.
%RSD	.2015	.2132	.2381	.6343	1.091	.4728
#1	102.9	507.8	247.6	264.7	1041.	22620.
#2	102.9	509.4	248.8	268.0	1033.	22630.
#3	102.5	507.4	248.0	265.7	1019.	22440.

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	24580.	570.5	51460.	525.0	497.2	489.1
Stddev	136.	1.7	236.	.4	2.3	.1
%RSD	.5541	.2924	.4589	.0843	.4565	.0234
#1	24690.	571.2	51660.	525.4	498.9	489.0
#2	24630.	571.7	51530.	525.2	498.0	489.1
#3	24430.	568.6	51200.	524.5	494.6	489.2

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Sample Name: 460-110803-A-1-B MS Acquired: 3/30/2016 1:57:58 Type: Unk
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1913.	1988.	504.0	596.3	577.1	483.8
Stddev	7.	6.	2.3	.1	1.7	1.1
%RSD	.3479	.3231	.4660	.0138	.2916	.2299
#1	1920.	1995.	502.1	596.2	577.1	482.6
#2	1910.	1983.	506.6	596.4	578.8	484.6
#3	1908.	1985.	503.3	596.3	575.4	484.3

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	502.8	637.8	483.0	4333.
Stddev	1.7	2.0	1.7	41.
%RSD	.3317	.3124	.3531	.9416
#1	500.8	638.3	484.4	4366.
#2	503.8	639.5	483.4	4288.
#3	503.7	635.6	481.1	4346.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2930.3	31821.	4884.5
Stddev	10.9	84.	12.5
%RSD	.37333	.26322	.25551
#1	2937.8	31917.	4895.8
#2	2935.4	31764.	4871.1
#3	2917.8	31782.	4886.6

Sample Name: 460-110925-B-1-A@2 Acquired: 3/30/2016 2:05:37 Type: Unk
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	301.8	1.627	.9307	11.38	-.1561	13950.
Stddev	15.0	.889	.1998	.03	.0433	31.
%RSD	4.979	54.67	21.47	.2700	27.75	.2248

#1	318.0	1.594	1.014	11.41	-.2051	13980.
#2	288.2	2.532	.7028	11.36	-.1406	13920.
#3	299.3	.7542	1.076	11.35	-.1227	13960.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.3729	-.0160	.4056	7.453	889.7	1803.
Stddev	.0301	.0371	.3967	.078	11.6	8.
%RSD	8.074	231.8	97.82	1.047	1.299	.4230

#1	.3410	.0210	-.0093	7.519	892.5	1798.
#2	.4009	-.0157	.7813	7.367	877.0	1812.
#3	.3767	-.0532	.4447	7.472	899.6	1800.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1569.	13.93	6255.	3.773	3.160	.1693
Stddev	8.	.04	9.	.267	.585	.7881
%RSD	.5315	.2921	.1382	7.077	18.50	465.5

#1	1567.	13.93	6261.	3.503	3.583	.6954
#2	1562.	13.88	6258.	3.778	2.493	.5494
#3	1578.	13.96	6245.	4.037	3.404	-.7368

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110925-B-1-A@2 Acquired: 3/30/2016 2:05:37 Type: Unk
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-3.655	.8810	.4094	43.52	24.49	.1222
Stddev	2.738	1.956	.1055	.46	.38	.1548
%RSD	74.92	222.1	25.77	1.064	1.545	126.7
#1	-6.809	1.791	.5130	43.83	24.06	.3006
#2	-1.888	-1.365	.3021	43.74	24.79	.0222
#3	-2.267	2.216	.4131	42.99	24.61	.0438

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.0131	121.7	4.449	1996.
Stddev	.2168	.4	.037	40.
%RSD	1658.	.3045	.8250	1.983
#1	-.1356	121.6	4.491	2016.
#2	-.0870	122.1	4.421	2023.
#3	.2618	121.4	4.436	1951.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3039.8	32763.	5099.0
Stddev	13.8	96.	36.6
%RSD	.45450	.29298	.71747
#1	3031.5	32767.	5104.6
#2	3032.2	32856.	5132.4
#3	3055.8	32664.	5059.9

Sample Name: 460-110963-F-2-A Acquired: 3/30/2016 2:09:37 Type: Unk

Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	137.6	.2114	.3279	657.7	.0583	51330.
Stddev	3.8	2.149	.2276	.1	.1003	185.
%RSD	2.790	1017.	69.42	.0178	172.2	.3605

#1	136.5	2.486	.0654	657.8	.0073	51500.
#2	134.4	-1.786	.4473	657.6	.1738	51360.
#3	141.9	-.0662	.4710	657.7	-.0063	51130.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.3096	.8817	3.201	2.275	61.64	3692.
Stddev	.0677	.1286	.252	.367	5.79	25.
%RSD	21.88	14.59	7.876	16.14	9.397	.6731

#1	.2320	.7333	2.991	1.852	64.37	3719.
#2	.3566	.9604	3.481	2.511	54.99	3688.
#3	.3403	.9514	3.130	2.462	65.57	3670.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	39760.	23.00	41280.	33.47	.7058	-1.053
Stddev	66.	.03	135.	.55	.4695	2.253
%RSD	.1662	.1122	.3261	1.643	66.52	213.9

#1	39790.	23.00	41410.	33.25	.9874	1.525
#2	39800.	22.97	41290.	33.06	.9663	-2.046
#3	39680.	23.02	41140.	34.09	.1638	-2.638

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110963-F-2-A Acquired: 3/30/2016 2:09:37 Type: Unk
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.227	2.594	.3940	16.82	50.32	-.6398
Stddev	4.063	.693	.1423	.19	.30	.0531
%RSD	182.5	26.72	36.12	1.108	.6037	8.295
#1	-6.410	2.346	.2527	16.72	50.01	-.5846
#2	1.704	3.376	.3920	16.70	50.61	-.6905
#3	-1.975	2.059	.5374	17.04	50.35	-.6443

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.1437	436.4	4.531	11070.
Stddev	.6483	1.0	.115	57.
%RSD	451.2	.2187	2.532	.5149
#1	-.6573	437.2	4.614	11010.
#2	.5848	436.6	4.579	11060.
#3	-.3585	435.3	4.400	11130.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3018.4	32368.	5188.8
Stddev	10.2	72.	48.9
%RSD	.33891	.22231	.94229
#1	3015.6	32307.	5132.4
#2	3029.7	32350.	5216.8
#3	3009.8	32448.	5217.3

Sample Name: 460-110929-A-1-A Acquired: 3/30/2016 2:17:36 Type: Unk
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	92.57	.1572	.6261	77.38	-.1494	32520.
Stddev	8.61	.9460	.3385	.22	.0559	45.
%RSD	9.302	601.7	54.07	.2809	37.39	.1388
#1	87.27	-.7749	.2624	77.19	-.1218	32470.
#2	87.93	1.116	.9320	77.61	-.2137	32530.
#3	102.5	.1300	.6838	77.32	-.1128	32560.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.5379	-.2038	-.2302	6.463	17.75	5780.
Stddev	.0463	.0880	.1311	.140	3.87	55.
%RSD	8.607	43.20	56.96	2.165	21.81	.9468
#1	.5692	-.1212	-.3321	6.615	18.04	5742.
#2	.4847	-.2965	-.2763	6.339	13.74	5756.
#3	.5599	-.1937	-.0823	6.436	21.47	5843.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	12840.	26.56	173800.	22.25	-.3842	-1.362
Stddev	46.	.18	121.	.42	1.045	1.150
%RSD	.3571	.6603	.0695	1.888	272.0	84.43
#1	12790.	26.57	173900.	22.33	.7252	-2.688
#2	12850.	26.37	173700.	22.62	-1.350	-.6614
#3	12880.	26.72	174000.	21.80	-.5280	-.7350

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110929-A-1-A Acquired: 3/30/2016 2:17:36 Type: Unk
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.485	3.626	.2336	35.38	24.24	4.376
Stddev	.834	.304	.2882	.18	.42	.195
%RSD	56.17	8.396	123.4	.5045	1.720	4.462
#1	-.5340	3.756	.0174	35.21	24.23	4.171
#2	-1.828	3.845	.1225	35.57	24.66	4.560
#3	-2.093	3.279	.5607	35.36	23.83	4.397

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	2.002	214.5	4.353	2225.
Stddev	.738	.7	.178	10.
%RSD	36.88	.3386	4.097	.4273
#1	1.150	214.1	4.149	2214.
#2	2.388	214.2	4.430	2229.
#3	2.466	215.4	4.480	2233.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2969.9	31668.	5106.6
Stddev	15.5	231.	49.3
%RSD	.52223	.72878	.96508
#1	2987.5	31928.	5153.8
#2	2963.7	31590.	5110.7
#3	2958.4	31486.	5055.4

Sample Name: CCB Acquired: 3/30/2016 2:29:13 Type: QC
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.954	.2021	.5832	.1827	-.1806	35.47
Stddev	11.20	1.047	.3706	.1362	.0758	1.43
%RSD	226.0	518.2	63.54	74.53	41.97	4.024
#1	17.05	-.9927	.8899	.2119	-.2630	35.65
#2	-5.041	.6378	.1715	.3020	-.1140	36.79
#3	2.848	.9612	.6884	.0343	-.1647	33.95

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.1241	-.1055	-.0854	.8300	2.331	15.65
Stddev	.0770	.0976	.2720	.2311	3.002	46.70
%RSD	62.03	92.56	318.5	27.85	128.8	298.4
#1	.0612	-.2165	-.3822	.7046	2.858	-2.142
#2	.2099	-.0329	.1520	1.097	-.8998	-19.53
#3	.1012	-.0671	-.0260	.6887	5.034	68.63

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.3184	.0692	67.98	.5864	-1.132	-.8786
Stddev	2.006	.0400	.96	.1323	1.087	1.210
%RSD	630.1	57.82	1.418	22.56	95.94	137.7
#1	-.4474	.1138	67.35	.5997	-2.195	-.2601
#2	-1.192	.0576	69.09	.4479	-1.180	-2.272
#3	2.594	.0363	67.50	.7114	-.0232	-.1035

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 3/30/2016 2:29:13 Type: QC
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.7006	.7268	-.1030	-.1715	.7485	.4181
Stddev	.5918	1.423	.2559	.2425	.4315	.2874
%RSD	84.46	195.7	248.4	141.5	57.65	68.73
#1	-.0444	2.149	.1861	-.2193	.7419	.6662
#2	-1.194	.7277	-.3005	.0914	1.183	.4849
#3	-.8639	-.6962	-.1946	-.3865	.3204	.1032

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.0841	-.0099	.3431	18.13
Stddev	.5919	.0709	.2339	26.42
%RSD	703.8	717.1	68.19	145.7
#1	.7539	.0347	.5617	25.20
#2	-.3687	.0273	.3711	-11.10
#3	-.1329	-.0917	.0964	40.29

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2997.7	32603.	4907.7
Stddev	16.4	185.	21.0
%RSD	.54819	.56706	.42692
#1	2981.5	32402.	4885.2
#2	2997.2	32643.	4911.0
#3	3014.3	32765.	4926.7

Sample Name: CCVL Acquired: 3/30/2016 2:33:15 Type: QC
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	219.8	15.51	10.07	210.5	2.182	5282.
Stddev	11.7	2.02	.48	.5	.143	18.
%RSD	5.315	13.05	4.774	.2320	6.579	.3472

#1	223.1	15.88	10.18	210.5	2.095	5284.
#2	229.5	17.32	10.48	210.9	2.347	5263.
#3	206.8	13.32	9.540	209.9	2.103	5299.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.424	55.25	10.36	26.99	164.3	5265.
Stddev	.073	.22	.24	.40	5.4	14.
%RSD	1.641	.3991	2.269	1.466	3.280	.2748

#1	4.507	54.99	10.62	27.43	160.9	5263.
#2	4.371	55.40	10.15	26.86	170.5	5251.
#3	4.395	55.34	10.31	26.67	161.5	5280.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5028.	16.91	5139.	43.31	10.82	19.29
Stddev	9.	.16	18.	.19	.25	2.16
%RSD	.1885	.9210	.3593	.4477	2.316	11.18

#1	5031.	17.01	5156.	43.28	10.63	17.27
#2	5017.	16.73	5143.	43.13	10.72	19.04
#3	5035.	16.99	5120.	43.51	11.10	21.57

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 3/30/2016 2:33:15 Type: QC
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	17.80	21.44	53.77	30.08	50.56	20.11
Stddev	.77	1.83	.28	.09	.48	.20
%RSD	4.324	8.523	.5212	.3057	.9499	1.007
#1	17.72	19.36	53.69	30.18	51.03	19.92
#2	18.61	22.15	53.54	30.05	50.07	20.32
#3	17.07	22.81	54.08	30.01	50.58	20.08

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	51.80	22.09	21.15	F 1.228
Stddev	.22	.12	.20	10.05
%RSD	.4327	.5290	.9519	818.4
#1	52.00	22.20	21.29	11.30
#2	51.85	22.11	20.92	1.187
#3	51.55	21.97	21.25	-8.801

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3013.3	32355.	4982.7
Stddev	.6	128.	50.4
%RSD	.02125	.39442	1.0110
#1	3014.0	32459.	5029.7
#2	3012.7	32394.	4988.9
#3	3013.2	32213.	4929.5

Sample Name: 460-110789-D-14-B Acquired: 3/30/2016 2:37:14 Type: Unk

Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	13.49	-.2426	.2726	-.1336	-.1283	43.60
Stddev	15.08	1.461	.4898	.1306	.0455	3.29
%RSD	111.8	602.1	179.7	97.76	35.43	7.542

#1	30.38	.7569	-.2615	-.2157	-.1804	41.23
#2	8.703	.4344	.7007	-.2021	-.0966	42.22
#3	1.377	-1.919	.3786	.0170	-.1079	47.35

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0956	.0173	-.0556	.5147	-.6780	-10.92
Stddev	.0356	.1337	.2398	.2749	7.455	25.93
%RSD	37.21	773.9	431.4	53.40	1100.	237.5

#1	.1337	-.0131	.1761	.6817	-7.123	3.882
#2	.0633	.1635	-.0402	.1975	7.486	-40.86
#3	.0897	-.0986	-.3027	.6650	-2.397	4.220

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.430	-.0007	55.67	.7242	-.4583	-.2263
Stddev	3.360	.0601	4.56	.2628	.9900	1.030
%RSD	97.97	8038.	8.183	36.29	216.0	455.3

#1	1.128	.0243	60.26	.7638	-1.117	.3467
#2	1.876	-.0693	55.61	.9649	.6802	.3902
#3	7.285	.0428	51.15	.4438	-.9382	-1.416

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110789-D-14-B Acquired: 3/30/2016 2:37:14 Type: Unk
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.6322	-.3315	.0780	.1855	2.373	-.5684
Stddev	2.160	1.017	.0734	.1107	.628	.1820
%RSD	341.6	306.6	94.07	59.69	26.48	32.03
#1	1.795	-1.504	.1220	.2485	3.069	-.5699
#2	-2.342	.3032	-.0067	.0576	1.848	-.7497
#3	-1.349	.2063	.1186	.2503	2.201	-.3856

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.3621	-.0406	-.0854	9.997
Stddev	.4646	.0154	.1828	21.76
%RSD	128.3	37.96	214.1	217.7
#1	.3521	-.0580	-.2000	-14.78
#2	-.0975	-.0290	-.1816	26.05
#3	.8316	-.0346	.1254	18.71

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3054.9	32849.	4969.1
Stddev	12.5	321.	50.0
%RSD	.40985	.97583	1.0072
#1	3041.4	32657.	4924.7
#2	3057.2	32672.	4959.2
#3	3066.2	33219.	5023.4

Sample Name: CCV Acquired: 3/30/2016 2:41:16 Type: QC
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	124200.	2400.	1172.	9818.	1073.	126800.
Stddev	324.	8.	1.	22.	2.	383.
%RSD	.2606	.3302	.0510	.2253	.2160	.3017

#1	123900.	2408.	1172.	9843.	1071.	127100.
#2	124600.	2401.	1172.	9811.	1076.	126400.
#3	124100.	2392.	1173.	9800.	1073.	126800.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1257.	2557.	4917.	12800.	95840.	52820.
Stddev	4.	6.	12.	35.	212.	110.
%RSD	.2815	.2415	.2534	.2709	.2214	.2083

#1	1261.	2563.	4931.	12820.	95950.	52750.
#2	1256.	2556.	4914.	12770.	95980.	52950.
#3	1254.	2551.	4907.	12830.	95600.	52760.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	122000.	5195.	125200.	2444.	7216.	1007.
Stddev	180.	12.	368.	8.	24.	3.
%RSD	.1477	.2371	.2943	.3396	.3284	.3250

#1	122200.	5206.	124800.	2454.	7240.	1011.
#2	121900.	5182.	125500.	2441.	7214.	1005.
#3	121900.	5198.	125200.	2438.	7193.	1005.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 3/30/2016 2:41:16 Type: QC
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2392.	2321.	2589.	2318.	952.9	2474.
Stddev	6.	2.	9.	4.	6.5	4.
%RSD	.2432	.0883	.3467	.1766	.6782	.1812

#1	2396.	2320.	2597.	2323.	960.4	2479.
#2	2395.	2324.	2579.	2317.	949.2	2474.
#3	2386.	2320.	2591.	2315.	949.1	2470.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	990.8	5306.	9546.	9047.
Stddev	.8	3.	103.	44.
%RSD	.0812	.0590	1.082	.4853

#1	990.8	5302.	9622.	8998.
#2	991.6	5308.	9587.	9063.
#3	989.9	5306.	9428.	9081.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2838.2	30755.	4963.9
Stddev	5.4	145.	2.8
%RSD	.18860	.47142	.05607

#1	2832.2	30588.	4960.9
#2	2840.1	30849.	4964.2
#3	2842.4	30829.	4966.5

Sample Name: CCVL Acquired: 3/30/2016 2:49:05 Type: QC
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	236.1	16.01	9.574	208.1	2.099	5255.
Stddev	7.6	1.86	.191	.9	.035	24.
%RSD	3.224	11.64	1.999	.4511	1.643	.4550

#1	230.5	13.91	9.557	207.1	2.062	5228.
#2	244.8	16.68	9.774	208.8	2.104	5272.
#3	233.1	17.45	9.392	208.5	2.130	5265.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.384	54.67	10.51	26.50	152.6	5211.
Stddev	.061	.17	.06	.52	2.7	4.
%RSD	1.402	.3086	.5729	1.977	1.778	.0830

#1	4.345	54.52	10.44	27.10	155.2	5208.
#2	4.353	54.85	10.56	26.30	152.8	5209.
#3	4.455	54.63	10.51	26.12	149.8	5216.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5001.	16.78	5072.	43.06	11.24	19.41
Stddev	33.	.10	9.	.12	1.04	.61
%RSD	.6540	.6198	.1759	.2792	9.280	3.154

#1	4963.	16.88	5081.	43.20	10.08	19.41
#2	5021.	16.79	5063.	43.04	11.54	18.80
#3	5018.	16.67	5071.	42.96	12.10	20.03

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 3/30/2016 2:49:05 Type: QC
Method: sw03182016(v14) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	16.86	21.74	52.92	29.60	50.07	19.79
Stddev	.91	.11	.42	.45	.12	.04
%RSD	5.385	.5254	.8018	1.523	.2432	.2255
#1	15.85	21.61	52.55	29.08	50.17	19.76
#2	17.15	21.78	53.38	29.85	50.11	19.84
#3	17.60	21.83	52.83	29.87	49.93	19.78

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	52.12	21.94	20.79	F 1.404
Stddev	.62	.13	.32	13.66
%RSD	1.189	.5812	1.549	973.6
#1	52.06	21.81	20.42	8.352
#2	52.76	22.07	20.91	10.20
#3	51.53	21.93	21.03	-14.34

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3016.4	32216.	4966.5
Stddev	17.6	197.	32.2
%RSD	.58283	.61279	.64865
#1	3036.3	32389.	4982.3
#2	3009.7	32258.	4987.8
#3	3003.1	32001.	4929.4

METALS BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-110715-1

SDG No.: _____

Batch Number: 359060 Batch Start Date: 03/27/16 20:57 Batch Analyst: Esteban, Edgardo ABatch Method: 3050B Batch End Date: 03/28/16 02:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	CalcMsg	InitialAmount	FinalAmount	ME_LCS-int 00055	ME_LCSS_87 00006	
MB 460-359060/1		3050B, 6010C		CALC NOT SET TO RUN	1.00 g	50 mL			
LCSSRM 460-359060/2		3050B, 6010C		CALC NOT SET TO RUN	1.02 g	50 mL		1.02 g	
460-110715-A-1	C3	3050B, 6010C	T	CALC NOT SET TO RUN	1.26 g	50 mL			
460-110715-A-1 DU	C3	3050B, 6010C	T	CALC NOT SET TO RUN	1.21 g	50 mL			
460-110715-A-1 MS	C3	3050B, 6010C	T	CALC NOT SET TO RUN	1.22 g	50 mL	2 mL		
460-110715-A-2	C4	3050B, 6010C	T	CALC NOT SET TO RUN	1.23 g	50 mL			

Batch Notes	
Balance ID	#35
Hydrogen Peroxide ID	0000135237
Logbook ID for diluted Nitric	MPR278
Lot # of Nitric Acid	0000129810
Hot Block ID	#1
Oven, Bath or Block Temperature 1	95c Degrees C
Pipette ID	#42
Thermometer ID	ICP-4 (CF -1)
Digestion Tube/Cup ID	J227204-6407 (50 ml Dg tube)
Uncorrected Temperature	96c Celsius

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job Number: 460-110715-1

SDG No.: _____

Project: DEC Elmont546; Site: E130150

Client Sample ID

C3

C4

Lab Sample ID

460-110715-1

460-110715-2

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job Number: 460-110715-1
SDG Number: _____
Matrix: Solid Instrument ID: NOEQUIP
Method: Moisture RL Date: 02/15/2007 17:07

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		1	
Percent Solids		1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job Number: 460-110715-1
SDG Number: _____
Matrix: Solid Instrument ID: NOEQUIP
Method: Moisture XRL Date: 01/01/2007 16:49

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		1	
Percent Solids		1	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 460-110715-1

SDG No.:

Instrument ID: NOEQUIP Method: Moisture

Start Date: 03/24/2016 18:48 End Date: 03/24/2016 18:48

[illegible]

Prep Types

$$T = \text{Total}/NA$$

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-110715-1

SDG No.: _____

Batch Number: 358488 Batch Start Date: 03/24/16 18:48 Batch Analyst: Hodge, Joshua DBatch Method: Moisture Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
460-110715-A-1	C3	Moisture	T	145	1.01 g	6.76 g	6.48 g		
460-110715-A-2	C4	Moisture	T	146	1.01 g	6.83 g	5.93 g		
460-110582-C-1 DU		Moisture	T	165	0.99 g	6.83 g	6.53 g		

Batch Notes	
Balance ID	104 No Unit
Date samples were placed in the oven	3/24/16
Oven Temp In	104 Degrees C
Time samples were place in the oven	19:04
Date samples were removed from oven	3/25/2016
Oven Temp Out	106 Degrees C
Time Samples were removed from oven	10:48
Oven ID	2
Thermometer ID	116941
Uncorrected In Temperature	104 Celsius
Uncorrected Out Temperature	106 Celsius

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Moisture

Page 1 of 1

Subcontract Data

Shipping and Receiving Documents

777 New Durham Road
Edison, New Jersey 08817
Phone: (732) 549-3900 Fax: (732) 549-3679

Page 1 of 1Page 604 of 608

110715

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[illegible]

SAV	CORRECTED
1: 1.2 °C	2.1 °C
2: 1.2 °C	1.0 °C
3: 1.3 °C	1.0 °C

Cooler #4
 Cooler #5
 Cooler #6

RAW		CORRECTED	
<p>1. The first step in the process of the cell cycle is the replication of DNA. This process occurs during the S phase of the cell cycle.</p> <p>2. The second step is the condensation of the replicated DNA into chromosomes. This process occurs during the G2 phase of the cell cycle.</p> <p>3. The third step is the separation of the sister chromatids. This process occurs during the M phase of the cell cycle.</p> <p>4. The final step is the division of the cell into two daughter cells. This process occurs during the M phase of the cell cycle.</p>	<p>1. The first step in the process of the cell cycle is the replication of DNA. This process occurs during the S phase of the cell cycle.</p> <p>2. The second step is the condensation of the replicated DNA into chromosomes. This process occurs during the G2 phase of the cell cycle.</p> <p>3. The third step is the separation of the sister chromatids. This process occurs during the M phase of the cell cycle.</p> <p>4. The final step is the division of the cell into two daughter cells. This process occurs during the M phase of the cell cycle.</p>		

[illegible]

RAW
Cooler #7:
Cooler #8:
Cooler #9:

<p>  McGraw-Hill CONSTRUCTION ANALYSIS REPORT </p>	<p>  McGraw-Hill CONSTRUCTION ANALYSIS REPORT </p>	<p>  McGraw-Hill CONSTRUCTION ANALYSIS REPORT </p>
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[illegible][illegible][illegible][illegible]

1

1. *Phragmites australis* (Cav.) Trin. ex Steud.

[illegible]

the appropriate Project Manager and Dep

Samples for Metal analysis which

[illegible]

Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 460-110715-1

Login Number: 110715

List Number: 1

Creator: Lysy, Susan

List Source: TestAmerica Edison

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.2°C IR#6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	No analysis requiring residual chlorine check assigned.

Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 460-110715-1

Login Number: 110715
List Number: 2
Creator: Hulbert, Michael J

List Source: TestAmerica Buffalo
List Creation: 03/25/16 11:44 AM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.7 #1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	False	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	