



09/18/14

Technical Report for

Langan Engineering & Environmental

Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

365 Bond Street, 100287501

Accutest Job Number: JB67898

Sampling Date: 05/27/14

Report to:

Langan Engineering & Environmental

ldeckard@langan.com

ATTN: Lindsay Deckard

Total number of pages in report: **1071**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

A handwritten signature in black ink that reads 'Nancy Cole'.

Nancy Cole
Laboratory Director

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Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), PA, RI, SC, TN, VA, WV, DoD ELAP (L-A-B L2248)

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Test results relate only to samples analyzed.

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Sample Summary

Langan Engineering & Environmental

Job No: JB67898

Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Project No: 365 Bond Street, 100287501

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
JB67898-1	05/27/14	10:35	CBM	05/28/14	SO Soil	287-DEC-3
JB67898-2	05/27/14	12:30	CBM	05/28/14	SO Soil	288-PE-60
JB67898-3	05/27/14	12:30	CBM	05/28/14	AQ Trip Blank Soil	289-TB-5
JB67898-4	05/27/14	08:50	CBM	05/28/14	AQ Field Blank Soil	290-FB-6

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: Langan Engineering & Environmental

Job No JB67898

Site: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Report Date 6/11/2014 6:08:20 PM

On 05/28/2014, 2 Sample(s), 1 Trip Blank(s) and 1 Field Blank(s) were received at Accutest Laboratories at temperatures of 2.7 C/ 3 C. Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JB67898 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Volatiles by GCMS By Method SW846 8260C

Matrix: AQ

Batch ID: V1C5746

- All samples were analyzed within the recommended method holding time.
- Sample(s) JB67826-2MS, JB67826-2MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Matrix: SO

Batch ID: V3V478

- All samples were analyzed within the recommended method holding time.
- Sample(s) JB67809-1MS, JB67809-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- JB67898-1 for Toluene-D8: Outside control limits due to matrix interference.

Matrix: SO

Batch ID: V3V480

- The data for SW846 8260C meets quality control requirements.
- JB67898-1: Confirmation run for surrogate recoveries.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ

Batch ID: OP75202

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- OP75202-BSD for 3,3'-Dichlorobenzidine: Analytical precision exceeds in-house control limits.
- OP75202-BSD for 4-Chloroaniline: Analytical precision exceeds in-house control limits.
- OP75202-BSD for Caprolactam: Analytical precision exceeds in-house control limits.
- OP75202-BSD for Hexachlorobutadiene: Analytical precision exceeds in-house control limits.
- OP75202-BSD for Phenol: Analytical precision exceeds in-house control limits.

Matrix: SO

Batch ID: OP75185

- All samples were extracted within the recommended method holding time.
- Sample(s) JB67915-1MS, JB67915-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Blank Spike Recovery(s) for Hexachlorobutadiene, Hexachloroethane are outside control limits. Outside of in-house control limits, but within reasonable method recovery limits.
- Matrix Spike / Matrix Spike Duplicate Recovery(s) for Dibenzo(a,h)anthracene, Acenaphthylene, Benzo(k)fluoranthene are outside control limits. Outside control limits due to matrix interference.
- Matrix Spike / Matrix Spike Duplicate Recovery(s) for Anthracene,, Carbazole, Phenanthrene are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- Matrix Spike / Matrix Spike Duplicate Recovery(s) for Anthracene, Carbazole, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Chrysene, Fluoranthene, Indeno(1,2,3-cd)pyrene, Phenanthrene, Pyrene are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- RPD(s) for MSD for 2,4-Dinitrophenol, 4,6-Dinitro-o-cresol, Acenaphthylene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Chrysene, Fluoranthene, Indeno(1,2,3-cd)pyrene, Phenanthrene, Pyrene are outside control limits for sample OP75185-MSD. Outside control limits due to matrix interference.

Metals By Method SW846 6010C

Matrix: AQ

Batch ID: MP79781

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Matrix: SO

Batch ID: MP79752

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB67702-1AMS, JB67702-1AMSD, JB67702-1ASDL were used as the QC samples for metals.
- Matrix Spike Recovery(s) for Antimony, Calcium, Magnesium, Manganese, Zinc are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
- Matrix Spike Duplicate Recovery(s) for Antimony, Calcium, Iron, Magnesium, Manganese, Zinc are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
- RPD(s) for Serial Dilution for Antimony, Arsenic, Cadmium, Selenium, Thallium are outside control limits for sample MP79752-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Metals By Method SW846 7470A

Matrix: AQ

Batch ID: MP79896

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Metals By Method SW846 7471B**Matrix:** SO**Batch ID:** MP79976

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB67912-9AMS, JB67912-9AMSD were used as the QC samples for metals.

Wet Chemistry By Method SM2540 G-97**Matrix:** SO**Batch ID:** GN5599

- The data for SM2540 G-97 meets quality control requirements.

Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting Accutest's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

Accutest Laboratories is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by Accutest Laboratories indicated via signature on the report cover

Summary of Hits

Job Number: JB67898
Account: Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY
Collected: 05/27/14



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method

JB67898-1 287-DEC-3

Acetone	0.0442	0.011	0.0052	mg/kg	SW846 8260C
2-Butanone (MEK)	0.0089 J	0.011	0.0050	mg/kg	SW846 8260C
Carbon disulfide	0.00080 J	0.0057	0.00016	mg/kg	SW846 8260C
Isopropylbenzene	0.0014 J	0.0057	0.00017	mg/kg	SW846 8260C
Methylcyclohexane	0.0072	0.0057	0.00019	mg/kg	SW846 8260C
Methylene chloride	0.0025 J	0.0057	0.0019	mg/kg	SW846 8260C
Acenaphthene	0.101	0.040	0.012	mg/kg	SW846 8270D
Anthracene	0.128	0.040	0.014	mg/kg	SW846 8270D
Benzo(a)anthracene	0.327	0.040	0.013	mg/kg	SW846 8270D
Benzo(a)pyrene	0.296	0.040	0.012	mg/kg	SW846 8270D
Benzo(b)fluoranthene	0.317	0.040	0.013	mg/kg	SW846 8270D
Benzo(g,h,i)perylene	0.172	0.040	0.015	mg/kg	SW846 8270D
Benzo(k)fluoranthene	0.105	0.040	0.015	mg/kg	SW846 8270D
Carbazole	0.0243 J	0.080	0.019	mg/kg	SW846 8270D
Chrysene	0.326	0.040	0.014	mg/kg	SW846 8270D
Dibenzo(a,h)anthracene	0.0563	0.040	0.014	mg/kg	SW846 8270D
Fluoranthene	0.608	0.040	0.018	mg/kg	SW846 8270D
Fluorene	0.114	0.040	0.013	mg/kg	SW846 8270D
Indeno(1,2,3-cd)pyrene	0.158	0.040	0.014	mg/kg	SW846 8270D
2-Methylnaphthalene	0.102	0.080	0.022	mg/kg	SW846 8270D
Phenanthrene	0.461	0.040	0.018	mg/kg	SW846 8270D
Pyrene	0.572	0.040	0.015	mg/kg	SW846 8270D
Aluminum	5480	63	1.7	mg/kg	SW846 6010C
Antimony	0.44 B	2.5	0.34	mg/kg	SW846 6010C
Arsenic	8.1	2.5	0.36	mg/kg	SW846 6010C
Barium	220	25	0.10	mg/kg	SW846 6010C
Beryllium	0.43	0.25	0.025	mg/kg	SW846 6010C
Cadmium	0.21 B	0.63	0.063	mg/kg	SW846 6010C
Calcium	22100	630	3.8	mg/kg	SW846 6010C
Chromium	11.3	1.3	0.088	mg/kg	SW846 6010C
Cobalt	5.5 B	6.3	0.075	mg/kg	SW846 6010C
Copper	22.4	3.1	0.19	mg/kg	SW846 6010C
Iron	13700	63	1.2	mg/kg	SW846 6010C
Lead	113	2.5	0.26	mg/kg	SW846 6010C
Magnesium	3560	630	4.2	mg/kg	SW846 6010C
Manganese	250	1.9	0.075	mg/kg	SW846 6010C
Mercury	0.52	0.037	0.0083	mg/kg	SW846 7471B
Nickel	13.4	5.0	0.13	mg/kg	SW846 6010C
Potassium	1180 B	1300	5.0	mg/kg	SW846 6010C
Selenium	2.1 B	2.5	0.41	mg/kg	SW846 6010C
Silver	0.65	0.63	0.18	mg/kg	SW846 6010C
Sodium	311 B	1300	2.4	mg/kg	SW846 6010C
Vanadium	19.7	6.3	0.11	mg/kg	SW846 6010C

Summary of Hits

Job Number: JB67898

Account: Langan Engineering & Environmental

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Collected: 05/27/14



Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method

Zinc		61.4	2.5	0.48	mg/kg	SW846 6010C

JB67898-2 288-PE-60

Acetone	0.383	0.032	0.014	mg/kg	SW846 8260C
2-Butanone (MEK)	0.0924	0.032	0.014	mg/kg	SW846 8260C
Carbon disulfide	0.0018 J	0.016	0.00045	mg/kg	SW846 8260C
Methylcyclohexane	0.0038 J	0.016	0.00052	mg/kg	SW846 8260C
Aluminum	30100	160	4.4	mg/kg	SW846 6010C
Antimony	1.3 B	6.6	0.89	mg/kg	SW846 6010C
Arsenic	16.8	6.6	0.96	mg/kg	SW846 6010C
Barium	92.4	66	0.26	mg/kg	SW846 6010C
Beryllium	1.1	0.66	0.066	mg/kg	SW846 6010C
Calcium	5580	1600	10	mg/kg	SW846 6010C
Chromium	63.8	3.3	0.23	mg/kg	SW846 6010C
Cobalt	10.6 B	16	0.20	mg/kg	SW846 6010C
Copper	35.9	8.2	0.49	mg/kg	SW846 6010C
Iron	78400	160	3.2	mg/kg	SW846 6010C
Lead	32.5	6.6	0.69	mg/kg	SW846 6010C
Magnesium	10400	1600	11	mg/kg	SW846 6010C
Manganese	556	4.9	0.20	mg/kg	SW846 6010C
Nickel	34.2	13	0.33	mg/kg	SW846 6010C
Potassium	7440	3300	13	mg/kg	SW846 6010C
Selenium	3.5 B	6.6	1.1	mg/kg	SW846 6010C
Silver	2.5	1.6	0.46	mg/kg	SW846 6010C
Sodium	1190 B	3300	6.2	mg/kg	SW846 6010C
Vanadium	75.4	16	0.30	mg/kg	SW846 6010C
Zinc	88.8	6.6	1.3	mg/kg	SW846 6010C

JB67898-3 289-TB-5

No hits reported in this sample.

JB67898-4 290-FB-6

Calcium	28.2 B	5000	19	ug/l	SW846 6010C
Sodium	113 B	10000	19	ug/l	SW846 6010C

Sample Results

Report of Analysis

Accutest LabLink@815166 15:01 18-Sep-2014

Report of Analysis

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Client Sample ID:	287-DEC-3	Date Sampled:	05/27/14
Lab Sample ID:	JB67898-1	Date Received:	05/28/14
Matrix:	SO - Soil	Percent Solids:	82.3
Method:	SW846 8260C		
Project:	Carroll Gardens, 363-365 Bond Street, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3V11293.D	1	05/29/14	TDN	n/a	n/a	V3V478
Run #2 ^a	3V11333.D	1	05/31/14	TDN	n/a	n/a	V3V480

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.3 g		
Run #2	4.4 g	10.0 ml	100 ul

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	0.0442	0.011	0.0052	mg/kg	
71-43-2	Benzene	ND	0.0011	0.00014	mg/kg	
74-97-5	Bromochloromethane	ND	0.0057	0.00059	mg/kg	
75-27-4	Bromodichloromethane	ND	0.0057	0.00032	mg/kg	
75-25-2	Bromoform	ND	0.0057	0.00030	mg/kg	
74-83-9	Bromomethane	ND	0.0057	0.00055	mg/kg	
78-93-3	2-Butanone (MEK)	0.0089	0.011	0.0050	mg/kg	J
75-15-0	Carbon disulfide	0.00080	0.0057	0.00016	mg/kg	J
56-23-5	Carbon tetrachloride	ND	0.0057	0.00029	mg/kg	
108-90-7	Chlorobenzene	ND	0.0057	0.00023	mg/kg	
75-00-3	Chloroethane	ND	0.0057	0.0011	mg/kg	
67-66-3	Chloroform	ND	0.0057	0.00029	mg/kg	
74-87-3	Chloromethane	ND	0.0057	0.00039	mg/kg	
110-82-7	Cyclohexane	ND	0.0057	0.00029	mg/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.011	0.0015	mg/kg	
124-48-1	Dibromochloromethane	ND	0.0057	0.00028	mg/kg	
106-93-4	1,2-Dibromoethane	ND	0.0011	0.00063	mg/kg	
95-50-1	1,2-Dichlorobenzene	ND	0.0057	0.00039	mg/kg	
541-73-1	1,3-Dichlorobenzene	ND	0.0057	0.00025	mg/kg	
106-46-7	1,4-Dichlorobenzene	ND	0.0057	0.00029	mg/kg	
75-71-8	Dichlorodifluoromethane	ND	0.0057	0.00040	mg/kg	
75-34-3	1,1-Dichloroethane	ND	0.0057	0.00036	mg/kg	
107-06-2	1,2-Dichloroethane	ND	0.0011	0.00037	mg/kg	
75-35-4	1,1-Dichloroethene	ND	0.0057	0.00033	mg/kg	
156-59-2	cis-1,2-Dichloroethene	ND	0.0057	0.00024	mg/kg	
156-60-5	trans-1,2-Dichloroethene	ND	0.0057	0.00048	mg/kg	
78-87-5	1,2-Dichloropropane	ND	0.0057	0.00050	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0057	0.00026	mg/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0057	0.00031	mg/kg	
100-41-4	Ethylbenzene	ND	0.0011	0.00020	mg/kg	
76-13-1	Freon 113	ND	0.0057	0.00050	mg/kg	
591-78-6	2-Hexanone	ND	0.0057	0.0020	mg/kg	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID: 287-DEC-3	
Lab Sample ID: JB67898-1	Date Sampled: 05/27/14
Matrix: SO - Soil	Date Received: 05/28/14
Method: SW846 8260C	Percent Solids: 82.3
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	0.0014	0.0057	0.00017	mg/kg	J
79-20-9	Methyl Acetate	ND	0.0057	0.0019	mg/kg	
108-87-2	Methylcyclohexane	0.0072	0.0057	0.00019	mg/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.0011	0.00039	mg/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	0.0057	0.0015	mg/kg	
75-09-2	Methylene chloride	0.0025	0.0057	0.0019	mg/kg	J
100-42-5	Styrene	ND	0.0057	0.00027	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0057	0.00039	mg/kg	
127-18-4	Tetrachloroethene	ND	0.0057	0.00047	mg/kg	
108-88-3	Toluene	ND	0.0011	0.00016	mg/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	0.0057	0.00024	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	0.0057	0.00021	mg/kg	
71-55-6	1,1,1-Trichloroethane	ND	0.0057	0.00033	mg/kg	
79-00-5	1,1,2-Trichloroethane	ND	0.0057	0.00094	mg/kg	
79-01-6	Trichloroethene	ND	0.0057	0.00040	mg/kg	
75-69-4	Trichlorofluoromethane	ND	0.0057	0.00026	mg/kg	
75-01-4	Vinyl chloride	ND	0.0057	0.00039	mg/kg	
	m,p-Xylene	ND	0.0011	0.00055	mg/kg	
95-47-6	o-Xylene	ND	0.0011	0.00020	mg/kg	
1330-20-7	Xylene (total)	ND	0.0011	0.00020	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%	85%	59-130%
17060-07-0	1,2-Dichloroethane-D4	101%	83%	65-123%
2037-26-5	Toluene-D8	126% ^b	103%	77-125%
460-00-4	4-Bromofluorobenzene	116%	102%	71-132%

(a) Confirmation run for surrogate recoveries.

(b) Outside control limits due to matrix interference.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Accutest LabLink@815166 15:01 18-Sep-2014

Report of Analysis

Page 1 of 3

Client Sample ID:	287-DEC-3	
Lab Sample ID:	JB67898-1	Date Sampled: 05/27/14
Matrix:	SO - Soil	Date Received: 05/28/14
Method:	SW846 8270D SW846 3550C	Percent Solids: 82.3
Project:	Carroll Gardens, 363-365 Bond Street, Brooklyn, NY	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6P7523.D	1	05/30/14	ALS	05/29/14	OP75185	E6P319
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.4 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	0.080	0.040	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	0.20	0.040	mg/kg	
120-83-2	2,4-Dichlorophenol	ND	0.20	0.064	mg/kg	
105-67-9	2,4-Dimethylphenol	ND	0.20	0.067	mg/kg	
51-28-5	2,4-Dinitrophenol	ND	0.80	0.049	mg/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	0.80	0.049	mg/kg	
95-48-7	2-Methylphenol	ND	0.080	0.046	mg/kg	
	3&4-Methylphenol	ND	0.080	0.051	mg/kg	
88-75-5	2-Nitrophenol	ND	0.20	0.042	mg/kg	
100-02-7	4-Nitrophenol	ND	0.40	0.068	mg/kg	
87-86-5	Pentachlorophenol	ND	0.40	0.068	mg/kg	
108-95-2	Phenol	ND	0.080	0.042	mg/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	0.20	0.041	mg/kg	
95-95-4	2,4,5-Trichlorophenol	ND	0.20	0.046	mg/kg	
88-06-2	2,4,6-Trichlorophenol	ND	0.20	0.038	mg/kg	
83-32-9	Acenaphthene	0.101	0.040	0.012	mg/kg	
208-96-8	Acenaphthylene	ND	0.040	0.013	mg/kg	
98-86-2	Acetophenone	ND	0.20	0.0070	mg/kg	
120-12-7	Anthracene	0.128	0.040	0.014	mg/kg	
1912-24-9	Atrazine	ND	0.080	0.0079	mg/kg	
56-55-3	Benzo(a)anthracene	0.327	0.040	0.013	mg/kg	
50-32-8	Benzo(a)pyrene	0.296	0.040	0.012	mg/kg	
205-99-2	Benzo(b)fluoranthene	0.317	0.040	0.013	mg/kg	
191-24-2	Benzo(g,h,i)perylene	0.172	0.040	0.015	mg/kg	
207-08-9	Benzo(k)fluoranthene	0.105	0.040	0.015	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	0.080	0.015	mg/kg	
85-68-7	Butyl benzyl phthalate	ND	0.080	0.023	mg/kg	
92-52-4	1,1'-Biphenyl	ND	0.080	0.0046	mg/kg	
100-52-7	Benzaldehyde	ND	0.20	0.0092	mg/kg	
91-58-7	2-Chloronaphthalene	ND	0.080	0.012	mg/kg	
106-47-8	4-Chloroaniline	ND	0.20	0.013	mg/kg	
86-74-8	Carbazole	0.0243	0.080	0.019	mg/kg	J

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID: 287-DEC-3	
Lab Sample ID: JB67898-1	Date Sampled: 05/27/14
Matrix: SO - Soil	Date Received: 05/28/14
Method: SW846 8270D SW846 3550C	Percent Solids: 82.3
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY	

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	0.080	0.013	mg/kg	
218-01-9	Chrysene	0.326	0.040	0.014	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	0.080	0.016	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	0.080	0.012	mg/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	0.080	0.012	mg/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.080	0.012	mg/kg	
121-14-2	2,4-Dinitrotoluene	ND	0.040	0.017	mg/kg	
606-20-2	2,6-Dinitrotoluene	ND	0.040	0.015	mg/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	0.080	0.010	mg/kg	
123-91-1	1,4-Dioxane	ND	0.040	0.026	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	0.0563	0.040	0.014	mg/kg	
132-64-9	Dibenzofuran	ND	0.080	0.012	mg/kg	
84-74-2	Di-n-butyl phthalate	ND	0.080	0.0089	mg/kg	
117-84-0	Di-n-octyl phthalate	ND	0.080	0.019	mg/kg	
84-66-2	Diethyl phthalate	ND	0.080	0.014	mg/kg	
131-11-3	Dimethyl phthalate	ND	0.080	0.014	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.080	0.035	mg/kg	
206-44-0	Fluoranthene	0.608	0.040	0.018	mg/kg	
86-73-7	Fluorene	0.114	0.040	0.013	mg/kg	
118-74-1	Hexachlorobenzene	ND	0.080	0.013	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.040	0.011	mg/kg	
77-47-4	Hexachlorocyclopentadiene	ND	0.40	0.041	mg/kg	
67-72-1	Hexachloroethane	ND	0.20	0.011	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	0.158	0.040	0.014	mg/kg	
78-59-1	Isophorone	ND	0.080	0.011	mg/kg	
91-57-6	2-Methylnaphthalene	0.102	0.080	0.022	mg/kg	
88-74-4	2-Nitroaniline	ND	0.20	0.018	mg/kg	
99-09-2	3-Nitroaniline	ND	0.20	0.016	mg/kg	
100-01-6	4-Nitroaniline	ND	0.20	0.016	mg/kg	
91-20-3	Naphthalene	ND	0.040	0.011	mg/kg	
98-95-3	Nitrobenzene	ND	0.080	0.012	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	0.080	0.0098	mg/kg	
86-30-6	N-Nitrosodiphenylamine	ND	0.20	0.024	mg/kg	
85-01-8	Phenanthrene	0.461	0.040	0.018	mg/kg	
129-00-0	Pyrene	0.572	0.040	0.015	mg/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	0.20	0.012	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	72%		13-110%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	287-DEC-3	Date Sampled:	05/27/14
Lab Sample ID:	JB67898-1	Date Received:	05/28/14
Matrix:	SO - Soil	Percent Solids:	82.3
Method:	SW846 8270D SW846 3550C		
Project:	Carroll Gardens, 363-365 Bond Street, Brooklyn, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	68%		15-110%
118-79-6	2,4,6-Tribromophenol	97%		20-123%
4165-60-0	Nitrobenzene-d5	67%		10-110%
321-60-8	2-Fluorobiphenyl	87%		17-110%
1718-51-0	Terphenyl-d14	89%		30-124%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	287-DEC-3	Date Sampled:	05/27/14
Lab Sample ID:	JB67898-1	Date Received:	05/28/14
Matrix:	SO - Soil	Percent Solids:	82.3
Project:	Carroll Gardens, 363-365 Bond Street, Brooklyn, NY		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	5480	63	1.7	mg/kg	1	05/29/14	05/31/14 RR	SW846 6010C ¹	SW846 3050B ³
Antimony	0.44 B	2.5	0.34	mg/kg	1	05/29/14	05/31/14 RR	SW846 6010C ¹	SW846 3050B ³
Arsenic	8.1	2.5	0.36	mg/kg	1	05/29/14	05/31/14 RR	SW846 6010C ¹	SW846 3050B ³
Barium	220	25	0.10	mg/kg	1	05/29/14	05/31/14 RR	SW846 6010C ¹	SW846 3050B ³
Beryllium	0.43	0.25	0.025	mg/kg	1	05/29/14	05/31/14 RR	SW846 6010C ¹	SW846 3050B ³
Cadmium	0.21 B	0.63	0.063	mg/kg	1	05/29/14	05/31/14 RR	SW846 6010C ¹	SW846 3050B ³
Calcium	22100	630	3.8	mg/kg	1	05/29/14	05/31/14 RR	SW846 6010C ¹	SW846 3050B ³
Chromium	11.3	1.3	0.088	mg/kg	1	05/29/14	05/31/14 RR	SW846 6010C ¹	SW846 3050B ³
Cobalt	5.5 B	6.3	0.075	mg/kg	1	05/29/14	05/31/14 RR	SW846 6010C ¹	SW846 3050B ³
Copper	22.4	3.1	0.19	mg/kg	1	05/29/14	05/31/14 RR	SW846 6010C ¹	SW846 3050B ³
Iron	13700	63	1.2	mg/kg	1	05/29/14	05/31/14 RR	SW846 6010C ¹	SW846 3050B ³
Lead	113	2.5	0.26	mg/kg	1	05/29/14	05/31/14 RR	SW846 6010C ¹	SW846 3050B ³
Magnesium	3560	630	4.2	mg/kg	1	05/29/14	05/31/14 RR	SW846 6010C ¹	SW846 3050B ³
Manganese	250	1.9	0.075	mg/kg	1	05/29/14	05/31/14 RR	SW846 6010C ¹	SW846 3050B ³
Mercury	0.52	0.037	0.0083	mg/kg	1	06/11/14	06/11/14 JW	SW846 7471B ²	SW846 7471B ⁴
Nickel	13.4	5.0	0.13	mg/kg	1	05/29/14	05/31/14 RR	SW846 6010C ¹	SW846 3050B ³
Potassium	1180 B	1300	5.0	mg/kg	1	05/29/14	05/31/14 RR	SW846 6010C ¹	SW846 3050B ³
Selenium	2.1 B	2.5	0.41	mg/kg	1	05/29/14	05/31/14 RR	SW846 6010C ¹	SW846 3050B ³
Silver	0.65	0.63	0.18	mg/kg	1	05/29/14	05/31/14 RR	SW846 6010C ¹	SW846 3050B ³
Sodium	311 B	1300	2.4	mg/kg	1	05/29/14	05/31/14 RR	SW846 6010C ¹	SW846 3050B ³
Thallium	0.51 U	1.3	0.51	mg/kg	1	05/29/14	05/31/14 RR	SW846 6010C ¹	SW846 3050B ³
Vanadium	19.7	6.3	0.11	mg/kg	1	05/29/14	05/31/14 RR	SW846 6010C ¹	SW846 3050B ³
Zinc	61.4	2.5	0.48	mg/kg	1	05/29/14	05/31/14 RR	SW846 6010C ¹	SW846 3050B ³

(1) Instrument QC Batch: MA34133

(2) Instrument QC Batch: MA34211

(3) Prep QC Batch: MP79752

(4) Prep QC Batch: MP79976

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

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Report of Analysis

Page 1 of 2

Client Sample ID:	288-PE-60	Date Sampled:	05/27/14
Lab Sample ID:	JB67898-2	Date Received:	05/28/14
Matrix:	SO - Soil	Percent Solids:	31.6
Method:	SW846 8260C		
Project:	Carroll Gardens, 363-365 Bond Street, Brooklyn, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3V11292.D	1	05/29/14	TDN	n/a	n/a	V3V478
Run #2							

Run #	Initial Weight
Run #1	5.0 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	0.383	0.032	0.014	mg/kg	
71-43-2	Benzene	ND	0.0032	0.00040	mg/kg	
74-97-5	Bromochloromethane	ND	0.016	0.0016	mg/kg	
75-27-4	Bromodichloromethane	ND	0.016	0.00089	mg/kg	
75-25-2	Bromoform	ND	0.016	0.00083	mg/kg	
74-83-9	Bromomethane	ND	0.016	0.0015	mg/kg	
78-93-3	2-Butanone (MEK)	0.0924	0.032	0.014	mg/kg	
75-15-0	Carbon disulfide	0.0018	0.016	0.00045	mg/kg	J
56-23-5	Carbon tetrachloride	ND	0.016	0.00079	mg/kg	
108-90-7	Chlorobenzene	ND	0.016	0.00062	mg/kg	
75-00-3	Chloroethane	ND	0.016	0.0031	mg/kg	
67-66-3	Chloroform	ND	0.016	0.00080	mg/kg	
74-87-3	Chloromethane	ND	0.016	0.0011	mg/kg	
110-82-7	Cyclohexane	ND	0.016	0.00081	mg/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.032	0.0042	mg/kg	
124-48-1	Dibromochloromethane	ND	0.016	0.00077	mg/kg	
106-93-4	1,2-Dibromoethane	ND	0.0032	0.0017	mg/kg	
95-50-1	1,2-Dichlorobenzene	ND	0.016	0.0011	mg/kg	
541-73-1	1,3-Dichlorobenzene	ND	0.016	0.00069	mg/kg	
106-46-7	1,4-Dichlorobenzene	ND	0.016	0.00079	mg/kg	
75-71-8	Dichlorodifluoromethane	ND	0.016	0.0011	mg/kg	
75-34-3	1,1-Dichloroethane	ND	0.016	0.00099	mg/kg	
107-06-2	1,2-Dichloroethane	ND	0.0032	0.0010	mg/kg	
75-35-4	1,1-Dichloroethene	ND	0.016	0.00091	mg/kg	
156-59-2	cis-1,2-Dichloroethene	ND	0.016	0.00066	mg/kg	
156-60-5	trans-1,2-Dichloroethene	ND	0.016	0.0013	mg/kg	
78-87-5	1,2-Dichloropropane	ND	0.016	0.0014	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	0.016	0.00072	mg/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	0.016	0.00085	mg/kg	
100-41-4	Ethylbenzene	ND	0.0032	0.00055	mg/kg	
76-13-1	Freon 113	ND	0.016	0.0014	mg/kg	
591-78-6	2-Hexanone	ND	0.016	0.0056	mg/kg	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID: 288-PE-60	Date Sampled: 05/27/14
Lab Sample ID: JB67898-2	Date Received: 05/28/14
Matrix: SO - Soil	Percent Solids: 31.6
Method: SW846 8260C	
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	0.016	0.00047	mg/kg	
79-20-9	Methyl Acetate	ND	0.016	0.0053	mg/kg	
108-87-2	Methylcyclohexane	0.0038	0.016	0.00052	mg/kg	J
1634-04-4	Methyl Tert Butyl Ether	ND	0.0032	0.0011	mg/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	0.016	0.0042	mg/kg	
75-09-2	Methylene chloride	ND	0.016	0.0054	mg/kg	
100-42-5	Styrene	ND	0.016	0.00073	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.016	0.0011	mg/kg	
127-18-4	Tetrachloroethene	ND	0.016	0.0013	mg/kg	
108-88-3	Toluene	ND	0.0032	0.00045	mg/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	0.016	0.00066	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	0.016	0.00057	mg/kg	
71-55-6	1,1,1-Trichloroethane	ND	0.016	0.00091	mg/kg	
79-00-5	1,1,2-Trichloroethane	ND	0.016	0.0026	mg/kg	
79-01-6	Trichloroethene	ND	0.016	0.0011	mg/kg	
75-69-4	Trichlorofluoromethane	ND	0.016	0.00071	mg/kg	
75-01-4	Vinyl chloride	ND	0.016	0.0011	mg/kg	
	m,p-Xylene	ND	0.0032	0.0015	mg/kg	
95-47-6	o-Xylene	ND	0.0032	0.00056	mg/kg	
1330-20-7	Xylene (total)	ND	0.0032	0.00056	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		59-130%
17060-07-0	1,2-Dichloroethane-D4	109%		65-123%
2037-26-5	Toluene-D8	117%		77-125%
460-00-4	4-Bromofluorobenzene	119%		71-132%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

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Report of Analysis

Page 1 of 3

Client Sample ID:	288-PE-60	Date Sampled:	05/27/14
Lab Sample ID:	JB67898-2	Date Received:	05/28/14
Matrix:	SO - Soil	Percent Solids:	31.6
Method:	SW846 8270D SW846 3550C		
Project:	Carroll Gardens, 363-365 Bond Street, Brooklyn, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6P7524.D	1	05/30/14	ALS	05/29/14	OP75185	E6P319
Run #2							

Run #	Initial Weight	Final Volume
Run #1	31.2 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	0.20	0.10	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	0.51	0.10	mg/kg	
120-83-2	2,4-Dichlorophenol	ND	0.51	0.16	mg/kg	
105-67-9	2,4-Dimethylphenol	ND	0.51	0.17	mg/kg	
51-28-5	2,4-Dinitrophenol	ND	2.0	0.12	mg/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	2.0	0.12	mg/kg	
95-48-7	2-Methylphenol	ND	0.20	0.12	mg/kg	
	3&4-Methylphenol	ND	0.20	0.13	mg/kg	
88-75-5	2-Nitrophenol	ND	0.51	0.11	mg/kg	
100-02-7	4-Nitrophenol	ND	1.0	0.17	mg/kg	
87-86-5	Pentachlorophenol	ND	1.0	0.17	mg/kg	
108-95-2	Phenol	ND	0.20	0.11	mg/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	0.51	0.10	mg/kg	
95-95-4	2,4,5-Trichlorophenol	ND	0.51	0.12	mg/kg	
88-06-2	2,4,6-Trichlorophenol	ND	0.51	0.095	mg/kg	
83-32-9	Acenaphthene	ND	0.10	0.029	mg/kg	
208-96-8	Acenaphthylene	ND	0.10	0.032	mg/kg	
98-86-2	Acetophenone	ND	0.51	0.018	mg/kg	
120-12-7	Anthracene	ND	0.10	0.035	mg/kg	
1912-24-9	Atrazine	ND	0.20	0.020	mg/kg	
56-55-3	Benzo(a)anthracene	ND	0.10	0.033	mg/kg	
50-32-8	Benzo(a)pyrene	ND	0.10	0.031	mg/kg	
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.034	mg/kg	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.038	mg/kg	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.038	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	0.20	0.037	mg/kg	
85-68-7	Butyl benzyl phthalate	ND	0.20	0.059	mg/kg	
92-52-4	1,1'-Biphenyl	ND	0.20	0.012	mg/kg	
100-52-7	Benzaldehyde	ND	0.51	0.023	mg/kg	
91-58-7	2-Chloronaphthalene	ND	0.20	0.031	mg/kg	
106-47-8	4-Chloroaniline	ND	0.51	0.032	mg/kg	
86-74-8	Carbazole	ND	0.20	0.047	mg/kg	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 3

Client Sample ID: 288-PE-60	Date Sampled: 05/27/14
Lab Sample ID: JB67898-2	Date Received: 05/28/14
Matrix: SO - Soil	Percent Solids: 31.6
Method: SW846 8270D SW846 3550C	
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY	

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	0.20	0.032	mg/kg	
218-01-9	Chrysene	ND	0.10	0.034	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	0.20	0.041	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	0.20	0.031	mg/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	0.20	0.030	mg/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.20	0.031	mg/kg	
121-14-2	2,4-Dinitrotoluene	ND	0.10	0.044	mg/kg	
606-20-2	2,6-Dinitrotoluene	ND	0.10	0.039	mg/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	0.20	0.026	mg/kg	
123-91-1	1,4-Dioxane	ND	0.10	0.066	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.035	mg/kg	
132-64-9	Dibenzofuran	ND	0.20	0.030	mg/kg	
84-74-2	Di-n-butyl phthalate	ND	0.20	0.023	mg/kg	
117-84-0	Di-n-octyl phthalate	ND	0.20	0.049	mg/kg	
84-66-2	Diethyl phthalate	ND	0.20	0.035	mg/kg	
131-11-3	Dimethyl phthalate	ND	0.20	0.036	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.20	0.090	mg/kg	
206-44-0	Fluoranthene	ND	0.10	0.045	mg/kg	
86-73-7	Fluorene	ND	0.10	0.033	mg/kg	
118-74-1	Hexachlorobenzene	ND	0.20	0.033	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.10	0.028	mg/kg	
77-47-4	Hexachlorocyclopentadiene	ND	1.0	0.10	mg/kg	
67-72-1	Hexachloroethane	ND	0.51	0.028	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.035	mg/kg	
78-59-1	Isophorone	ND	0.20	0.027	mg/kg	
91-57-6	2-Methylnaphthalene	ND	0.20	0.057	mg/kg	
88-74-4	2-Nitroaniline	ND	0.51	0.045	mg/kg	
99-09-2	3-Nitroaniline	ND	0.51	0.041	mg/kg	
100-01-6	4-Nitroaniline	ND	0.51	0.040	mg/kg	
91-20-3	Naphthalene	ND	0.10	0.028	mg/kg	
98-95-3	Nitrobenzene	ND	0.20	0.029	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	0.20	0.025	mg/kg	
86-30-6	N-Nitrosodiphenylamine	ND	0.51	0.061	mg/kg	
85-01-8	Phenanthrene	ND	0.10	0.046	mg/kg	
129-00-0	Pyrene	ND	0.10	0.039	mg/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	0.51	0.031	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	77%		13-110%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	288-PE-60	Date Sampled:	05/27/14
Lab Sample ID:	JB67898-2	Date Received:	05/28/14
Matrix:	SO - Soil	Percent Solids:	31.6
Method:	SW846 8270D SW846 3550C		
Project:	Carroll Gardens, 363-365 Bond Street, Brooklyn, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	72%		15-110%
118-79-6	2,4,6-Tribromophenol	107%		20-123%
4165-60-0	Nitrobenzene-d5	73%		10-110%
321-60-8	2-Fluorobiphenyl	86%		17-110%
1718-51-0	Terphenyl-d14	100%		30-124%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	288-PE-60	Date Sampled:	05/27/14
Lab Sample ID:	JB67898-2	Date Received:	05/28/14
Matrix:	SO - Soil	Percent Solids:	31.6
Project:	Carroll Gardens, 363-365 Bond Street, Brooklyn, NY		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	30100	160	4.4	mg/kg	1	05/29/14	05/31/14 RR	SW846 6010C ¹	SW846 3050B ³
Antimony	1.3 B	6.6	0.89	mg/kg	1	05/29/14	05/31/14 RR	SW846 6010C ¹	SW846 3050B ³
Arsenic	16.8	6.6	0.96	mg/kg	1	05/29/14	05/31/14 RR	SW846 6010C ¹	SW846 3050B ³
Barium	92.4	66	0.26	mg/kg	1	05/29/14	05/31/14 RR	SW846 6010C ¹	SW846 3050B ³
Beryllium	1.1	0.66	0.066	mg/kg	1	05/29/14	05/31/14 RR	SW846 6010C ¹	SW846 3050B ³
Cadmium	0.16 U	1.6	0.16	mg/kg	1	05/29/14	05/31/14 RR	SW846 6010C ¹	SW846 3050B ³
Calcium	5580	1600	10	mg/kg	1	05/29/14	05/31/14 RR	SW846 6010C ¹	SW846 3050B ³
Chromium	63.8	3.3	0.23	mg/kg	1	05/29/14	05/31/14 RR	SW846 6010C ¹	SW846 3050B ³
Cobalt	10.6 B	16	0.20	mg/kg	1	05/29/14	05/31/14 RR	SW846 6010C ¹	SW846 3050B ³
Copper	35.9	8.2	0.49	mg/kg	1	05/29/14	05/31/14 RR	SW846 6010C ¹	SW846 3050B ³
Iron	78400	160	3.2	mg/kg	1	05/29/14	05/31/14 RR	SW846 6010C ¹	SW846 3050B ³
Lead	32.5	6.6	0.69	mg/kg	1	05/29/14	05/31/14 RR	SW846 6010C ¹	SW846 3050B ³
Magnesium	10400	1600	11	mg/kg	1	05/29/14	05/31/14 RR	SW846 6010C ¹	SW846 3050B ³
Manganese	556	4.9	0.20	mg/kg	1	05/29/14	05/31/14 RR	SW846 6010C ¹	SW846 3050B ³
Mercury	0.023 U	0.10	0.023	mg/kg	1	06/11/14	06/11/14 JW	SW846 7471B ²	SW846 7471B ⁴
Nickel	34.2	13	0.33	mg/kg	1	05/29/14	05/31/14 RR	SW846 6010C ¹	SW846 3050B ³
Potassium	7440	3300	13	mg/kg	1	05/29/14	05/31/14 RR	SW846 6010C ¹	SW846 3050B ³
Selenium	3.5 B	6.6	1.1	mg/kg	1	05/29/14	05/31/14 RR	SW846 6010C ¹	SW846 3050B ³
Silver	2.5	1.6	0.46	mg/kg	1	05/29/14	05/31/14 RR	SW846 6010C ¹	SW846 3050B ³
Sodium	1190 B	3300	6.2	mg/kg	1	05/29/14	05/31/14 RR	SW846 6010C ¹	SW846 3050B ³
Thallium	1.4 U	3.3	1.4	mg/kg	1	05/29/14	05/31/14 RR	SW846 6010C ¹	SW846 3050B ³
Vanadium	75.4	16	0.30	mg/kg	1	05/29/14	05/31/14 RR	SW846 6010C ¹	SW846 3050B ³
Zinc	88.8	6.6	1.3	mg/kg	1	05/29/14	05/31/14 RR	SW846 6010C ¹	SW846 3050B ³

(1) Instrument QC Batch: MA34133

(2) Instrument QC Batch: MA34211

(3) Prep QC Batch: MP79752

(4) Prep QC Batch: MP79976

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

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Report of Analysis

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Client Sample ID:	289-TB-5	Date Sampled:	05/27/14
Lab Sample ID:	JB67898-3	Date Received:	05/28/14
Matrix:	AQ - Trip Blank Soil	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	Carroll Gardens, 363-365 Bond Street, Brooklyn, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1C128866.D	1	06/03/14	MD	n/a	n/a	V1C5746
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.28	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.56	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	3.2	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.18	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.35	ug/l	
75-00-3	Chloroethane	ND	1.0	0.39	ug/l	
67-66-3	Chloroform	ND	1.0	0.25	ug/l	
74-87-3	Chloromethane	ND	1.0	0.36	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.18	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	1.3	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.19	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.16	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.20	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.31	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.63	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.22	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.34	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.24	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.38	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.28	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.15	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
76-13-1	Freon 113	ND	5.0	0.77	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID: 289-TB-5	Date Sampled: 05/27/14
Lab Sample ID: JB67898-3	Date Received: 05/28/14
Matrix: AQ - Trip Blank Soil	Percent Solids: n/a
Method: SW846 8260C	
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	2.0	0.22	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.5	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.15	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.5	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.86	ug/l	
100-42-5	Styrene	ND	5.0	0.30	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.25	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.24	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.22	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.33	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.41	ug/l	
	m,p-Xylene	ND	1.0	0.40	ug/l	
95-47-6	o-Xylene	ND	1.0	0.19	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		79-120%
17060-07-0	1,2-Dichloroethane-D4	96%		72-123%
2037-26-5	Toluene-D8	102%		78-119%
460-00-4	4-Bromofluorobenzene	101%		74-119%

ND = Not detected MDL = Method Detection Limit

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E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

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Report of Analysis

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Client Sample ID:	290-FB-6	Date Sampled:	05/27/14
Lab Sample ID:	JB67898-4	Date Received:	05/28/14
Matrix:	AQ - Field Blank Soil	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	Carroll Gardens, 363-365 Bond Street, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1C128867.D	1	06/03/14	MD	n/a	n/a	V1C5746
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.28	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.56	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	3.2	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.18	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.35	ug/l	
75-00-3	Chloroethane	ND	1.0	0.39	ug/l	
67-66-3	Chloroform	ND	1.0	0.25	ug/l	
74-87-3	Chloromethane	ND	1.0	0.36	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.18	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	1.3	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.19	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.16	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.20	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.31	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.63	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.22	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.34	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.24	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.38	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.28	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.15	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
76-13-1	Freon 113	ND	5.0	0.77	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID: 290-FB-6	Date Sampled: 05/27/14
Lab Sample ID: JB67898-4	Date Received: 05/28/14
Matrix: AQ - Field Blank Soil	Percent Solids: n/a
Method: SW846 8260C	
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	2.0	0.22	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.5	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.15	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.5	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.86	ug/l	
100-42-5	Styrene	ND	5.0	0.30	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.25	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.24	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.22	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.33	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.41	ug/l	
	m,p-Xylene	ND	1.0	0.40	ug/l	
95-47-6	o-Xylene	ND	1.0	0.19	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		79-120%
17060-07-0	1,2-Dichloroethane-D4	98%		72-123%
2037-26-5	Toluene-D8	102%		78-119%
460-00-4	4-Bromofluorobenzene	98%		74-119%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

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Report of Analysis

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Client Sample ID:	290-FB-6	Date Sampled:	05/27/14
Lab Sample ID:	JB67898-4	Date Received:	05/28/14
Matrix:	AQ - Field Blank Soil	Percent Solids:	n/a
Method:	SW846 8270D SW846 3510C		
Project:	Carroll Gardens, 363-365 Bond Street, Brooklyn, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2P37049.D	1	05/30/14	HK	05/29/14	OP75202	E2P1542
Run #2							

Run #	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	1.3	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	1.3	ug/l	
120-83-2	2,4-Dichlorophenol	ND	2.0	1.6	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	1.8	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	6.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	20	1.3	ug/l	
95-48-7	2-Methylphenol	ND	2.0	1.3	ug/l	
	3&4-Methylphenol	ND	2.0	1.1	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	1.9	ug/l	
100-02-7	4-Nitrophenol	ND	10	0.91	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.4	ug/l	
108-95-2	Phenol	ND	2.0	0.55	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	1.4	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	1.7	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	1.5	ug/l	
83-32-9	Acenaphthene	ND	1.0	0.30	ug/l	
208-96-8	Acenaphthylene	ND	1.0	0.20	ug/l	
98-86-2	Acetophenone	ND	2.0	0.36	ug/l	
120-12-7	Anthracene	ND	1.0	0.19	ug/l	
1912-24-9	Atrazine	ND	2.0	0.42	ug/l	
100-52-7	Benzaldehyde	ND	5.0	0.67	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.0	0.22	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.0	0.24	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.0	0.22	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.0	0.31	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.0	0.22	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.25	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.22	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.0	0.27	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.0	0.34	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.30	ug/l	
86-74-8	Carbazole	ND	1.0	0.17	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID: 290-FB-6	Date Sampled: 05/27/14
Lab Sample ID: JB67898-4	Date Received: 05/28/14
Matrix: AQ - Field Blank Soil	Percent Solids: n/a
Method: SW846 8270D SW846 3510C	
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY	

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	2.0	0.41	ug/l	
218-01-9	Chrysene	ND	1.0	0.16	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.42	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.43	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.0	0.41	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.38	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	1.0	0.32	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	1.0	0.26	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	2.0	0.56	ug/l	
123-91-1	1,4-Dioxane	ND	1.0	0.72	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.0	0.28	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.23	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.0	0.58	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.25	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	0.23	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.26	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.55	ug/l	
206-44-0	Fluoranthene	ND	1.0	0.16	ug/l	
86-73-7	Fluorene	ND	1.0	0.27	ug/l	
118-74-1	Hexachlorobenzene	ND	1.0	0.46	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	0.39	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	0.48	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.29	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.0	0.40	ug/l	
78-59-1	Isophorone	ND	2.0	0.34	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	0.29	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	0.32	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.26	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.30	ug/l	
91-20-3	Naphthalene	ND	1.0	0.27	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.52	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.38	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.21	ug/l	
85-01-8	Phenanthrene	ND	1.0	0.19	ug/l	
129-00-0	Pyrene	ND	1.0	0.19	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.0	0.44	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	46%		10-110%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	290-FB-6	Date Sampled:	05/27/14
Lab Sample ID:	JB67898-4	Date Received:	05/28/14
Matrix:	AQ - Field Blank Soil	Percent Solids:	n/a
Method:	SW846 8270D SW846 3510C		
Project:	Carroll Gardens, 363-365 Bond Street, Brooklyn, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	30%		10-110%
118-79-6	2,4,6-Tribromophenol	97%		29-139%
4165-60-0	Nitrobenzene-d5	87%		28-131%
321-60-8	2-Fluorobiphenyl	88%		30-121%
1718-51-0	Terphenyl-d14	97%		16-147%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID: 290-FB-6	Date Sampled: 05/27/14
Lab Sample ID: JB67898-4	Date Received: 05/28/14
Matrix: AQ - Field Blank Soil	Percent Solids: n/a
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY	

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	11 U	200	11	ug/l	1	05/30/14	06/03/14	ND	SW846 6010C ¹ SW846 3010A ⁴
Antimony	2.6 U	6.0	2.6	ug/l	1	05/30/14	06/03/14	GT	SW846 6010C ² SW846 3010A ⁴
Arsenic	2.6 U	3.0	2.6	ug/l	1	05/30/14	06/03/14	ND	SW846 6010C ¹ SW846 3010A ⁴
Barium	1.0 U	200	1.0	ug/l	1	05/30/14	06/03/14	ND	SW846 6010C ¹ SW846 3010A ⁴
Beryllium	0.40 U	1.0	0.40	ug/l	1	05/30/14	06/03/14	ND	SW846 6010C ¹ SW846 3010A ⁴
Cadmium	0.70 U	3.0	0.70	ug/l	1	05/30/14	06/03/14	ND	SW846 6010C ¹ SW846 3010A ⁴
Calcium	28.2 B	5000	19	ug/l	1	05/30/14	06/03/14	GT	SW846 6010C ² SW846 3010A ⁴
Chromium	0.89 U	10	0.89	ug/l	1	05/30/14	06/03/14	ND	SW846 6010C ¹ SW846 3010A ⁴
Cobalt	0.83 U	50	0.83	ug/l	1	05/30/14	06/03/14	ND	SW846 6010C ¹ SW846 3010A ⁴
Copper	1.2 U	10	1.2	ug/l	1	05/30/14	06/03/14	ND	SW846 6010C ¹ SW846 3010A ⁴
Iron	12 U	100	12	ug/l	1	05/30/14	06/03/14	ND	SW846 6010C ¹ SW846 3010A ⁴
Lead	1.3 U	3.0	1.3	ug/l	1	05/30/14	06/03/14	ND	SW846 6010C ¹ SW846 3010A ⁴
Magnesium	41 U	5000	41	ug/l	1	05/30/14	06/03/14	GT	SW846 6010C ² SW846 3010A ⁴
Manganese	0.48 U	15	0.48	ug/l	1	05/30/14	06/03/14	ND	SW846 6010C ¹ SW846 3010A ⁴
Mercury	0.064 U	0.20	0.064	ug/l	1	06/05/14	06/05/14	JW	SW846 7470A ³ SW846 7470A ⁵
Nickel	0.75 U	10	0.75	ug/l	1	05/30/14	06/03/14	ND	SW846 6010C ¹ SW846 3010A ⁴
Potassium	50 U	10000	50	ug/l	1	05/30/14	06/03/14	ND	SW846 6010C ¹ SW846 3010A ⁴
Selenium	3.6 U	10	3.6	ug/l	1	05/30/14	06/03/14	ND	SW846 6010C ¹ SW846 3010A ⁴
Silver	1.2 U	10	1.2	ug/l	1	05/30/14	06/03/14	ND	SW846 6010C ¹ SW846 3010A ⁴
Sodium	113 B	10000	19	ug/l	1	05/30/14	06/03/14	ND	SW846 6010C ¹ SW846 3010A ⁴
Thallium	1.8 U	2.0	1.8	ug/l	1	05/30/14	06/03/14	ND	SW846 6010C ¹ SW846 3010A ⁴
Vanadium	0.87 U	50	0.87	ug/l	1	05/30/14	06/03/14	ND	SW846 6010C ¹ SW846 3010A ⁴
Zinc	7.6 U	20	7.6	ug/l	1	05/30/14	06/03/14	GT	SW846 6010C ² SW846 3010A ⁴

(1) Instrument QC Batch: MA34145

(2) Instrument QC Batch: MA34154

(3) Instrument QC Batch: MA34168

(4) Prep QC Batch: MP79781

(5) Prep QC Batch: MP79896

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Misc. Forms

5

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody

[illegible]

JB67898: Chain of Custody

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Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB67898 **Client:** _____ **Project:** _____
Date / Time Received: 5/28/2014 **Delivery Method:** _____ **Airbill #s:** _____
Cooler Temps (Initial/Adjusted): #1: (3/2.7); 0

Cooler Security

<u>Y or N</u>	<u>Y or N</u>
1. Custody Seals Present: ☒ ☐	3. COC Present: ☒ ☐
2. Custody Seals Intact: ☒ ☐	4. Smpl Dates/Time OK ☒ ☐

Cooler Temperature

<u>Y or N</u>
1. Temp criteria achieved: ☒ ☐
2. Cooler temp verification: _____ IR Gun
3. Cooler media: _____ Ice (Bag)
4. No. Coolers: _____ 1

Quality Control Preservation

<u>Y or N</u>	<u>N/A</u>
1. Trip Blank present / cooler: ☒ ☐ ☐	
2. Trip Blank listed on COC: ☒ ☐ ☐	
3. Samples preserved properly: ☒ ☐ ☐	
4. VOCs headspace free: ☒ ☐ ☐	

Sample Integrity - Documentation

<u>Y or N</u>
1. Sample labels present on bottles: ☒ ☐
2. Container labeling complete: ☒ ☐
3. Sample container label / COC agree: ☒ ☐

Sample Integrity - Condition

<u>Y or N</u>
1. Sample recvd within HT: ☒ ☐
2. All containers accounted for: ☒ ☐
3. Condition of sample: _____ Intact

Sample Integrity - Instructions

<u>Y or N</u>	<u>N/A</u>
1. Analysis requested is clear: ☒ ☐	
2. Bottles received for unspecified tests: ☐ ☒	
3. Sufficient volume recvd for analysis: ☒ ☐	
4. Compositing instructions clear: ☐ ☐	☒
5. Filtering instructions clear: ☐ ☐	☒

Comments

Internal Sample Tracking Chronicle

Langan Engineering & Environmental

Job No: JB67898

Carroll Gardens, 363-365 Bond Street, Brooklyn, NY
 Project No: 365 Bond Street, 100287501

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JB67898-1 Collected: 27-MAY-14 10:35 By: CBM Received: 28-MAY-14 By: MB 287-DEC-3						
JB67898-1	SM2540 G-97	29-MAY-14 15:30	AC			%SOL
JB67898-1	SW846 8260C	29-MAY-14 20:00	TDN			VC8260TCL20
JB67898-1	SW846 8270D	30-MAY-14 03:17	ALS	29-MAY-14 AQ		AB8270TCL20
JB67898-1	SW846 6010C	31-MAY-14 02:34	RR	29-MAY-14 WWZ		AG,AL,AS,BA,BE,CA,CD,CO,CR, CU,FE,K,MG,MN,NA,NI,PB,SB, SE,TL,V,ZN
JB67898-1	SW846 8260C	31-MAY-14 16:14	TDN			VC8260TCL20
JB67898-1	SW846 7471B	11-JUN-14 12:00	JW	11-JUN-14 JW		HG
JB67898-2 Collected: 27-MAY-14 12:30 By: CBM Received: 28-MAY-14 By: MB 288-PE-60						
JB67898-2	SM2540 G-97	29-MAY-14 15:30	AC			%SOL
JB67898-2	SW846 8260C	29-MAY-14 19:33	TDN			VC8260TCL20
JB67898-2	SW846 8270D	30-MAY-14 03:46	ALS	29-MAY-14 AQ		AB8270TCL20
JB67898-2	SW846 6010C	31-MAY-14 02:53	RR	29-MAY-14 WWZ		AG,AL,AS,BA,BE,CA,CD,CO,CR, CU,FE,K,MG,MN,NA,NI,PB,SB, SE,TL,V,ZN
JB67898-2	SW846 7471B	11-JUN-14 12:01	JW	11-JUN-14 JW		HG
JB67898-3 Collected: 27-MAY-14 12:30 By: CBM Received: 28-MAY-14 By: MB 289-TB-5						
JB67898-3	SW846 8260C	03-JUN-14 02:11	MD			VC8260TCL20
JB67898-4 Collected: 27-MAY-14 08:50 By: CBM Received: 28-MAY-14 By: MB 290-FB-6						
JB67898-4	SW846 8270D	30-MAY-14 19:32	HK	29-MAY-14 SP		AB8270TCL20
JB67898-4	SW846 6010C	03-JUN-14 01:30	ND	30-MAY-14 JF		AG,AL,AS,BA,BE,CD,CO,CR,CU, FE,K,MN,NA,NI,PB,SE,TL,V
JB67898-4	SW846 8260C	03-JUN-14 02:39	MD			VC8260TCL20
JB67898-4	SW846 6010C	03-JUN-14 23:46	GT	30-MAY-14 JF		CA,MG,SB,ZN
JB67898-4	SW846 7470A	05-JUN-14 13:31	JW	05-JUN-14 JW		HG

Accutest Internal Chain of Custody

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Job Number: JB67898
Account: LANGAN Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY
Received: 05/28/14

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB67898-1.1	Secured Storage	Todd Shoemaker	05/29/14 09:45	Retrieve from Storage
JB67898-1.1	Todd Shoemaker	Secured Staging Area	05/29/14 09:46	Return to Storage
JB67898-1.1	Secured Staging Area	Mike Sikorsky	05/29/14 10:20	Retrieve from Storage
JB67898-1.1	Max Ponce	Secured Storage	05/29/14 14:58	Return to Storage
Bottle was returned to secure storage, but inadvertently not scanned.				
JB67898-1.1	Secured Storage	Juliana Franchetti	05/29/14 16:04	Retrieve from Storage
JB67898-1.1	Juliana Franchetti	Secured Storage	05/29/14 17:20	Return to Storage
JB67898-1.1	Secured Storage	Alfredo Crespo	06/06/14 07:17	Retrieve from Storage
JB67898-1.1	Alfredo Crespo	Secured Staging Area	06/06/14 07:18	Return to Storage
JB67898-1.1	Secured Staging Area	Darshanaben Patel	06/06/14 11:17	Retrieve from Storage
JB67898-1.1	Darshanaben Patel	Secured Storage	06/06/14 13:45	Return to Storage
JB67898-1.1	Secured Storage	Alfredo Crespo	06/10/14 08:58	Retrieve from Storage
JB67898-1.1	Alfredo Crespo	Secured Staging Area	06/10/14 09:09	Return to Storage
JB67898-1.1	Secured Staging Area	Darshanaben Patel	06/10/14 09:10	Retrieve from Storage
JB67898-1.1	Darshanaben Patel	Secured Storage	06/10/14 15:08	Return to Storage
JB67898-1.1	Secured Storage	Alfredo Crespo	06/11/14 07:24	Retrieve from Storage
JB67898-1.1	Alfredo Crespo	Secured Staging Area	06/11/14 07:24	Return to Storage
JB67898-1.1	Secured Staging Area	Jieyu Wang	06/11/14 08:31	Retrieve from Storage
JB67898-1.1	Jieyu Wang	Secured Storage	06/11/14 15:10	Return to Storage
JB67898-1.1	Shirley Grzybowski		07/07/14 08:45	Disposed
JB67898-1.1.1	Mike Sikorsky	Organics Prep	05/29/14 10:23	Extract from JB67898-1.1
JB67898-1.1.1	Organics Prep	Andrew Lee Smith	05/30/14 00:12	Extract from JB67898-1.1
JB67898-1.1.1	Andrew Lee Smith	GCMS6P	05/30/14 00:12	Load on Instrument
JB67898-1.1.1	GCMS6P	Kristi Schollenberger	06/21/14 09:48	Unload from Instrument
JB67898-1.1.1	Kristi Schollenberger	Extract Freezer	06/21/14 09:48	Return to Storage
JB67898-1.1.1	Extract Freezer		07/09/14 09:00	Disposed
JB67898-1.1.2	Juliana Franchetti	Metals Digestion	05/29/14 17:20	Digestate from JB67898-1.1
JB67898-1.1.2	Metals Digestion	Juliana Franchetti	05/29/14 17:20	Digestate from JB67898-1.1
JB67898-1.1.2	Juliana Franchetti	Metals Digestate Storage	05/29/14 17:20	Return to Storage
JB67898-1.1.2	Metals Digestate Storage	Ryan Rebo	05/30/14 16:48	Retrieve from Storage
JB67898-1.1.2	Ryan Rebo	Metals Digestate Storage	05/30/14 16:48	Return to Storage
JB67898-1.1.2	Metals Digestate Storage	Ryan Rebo	06/03/14 08:28	Retrieve from Storage
JB67898-1.1.2	Ryan Rebo	Metals Digestate Storage	06/03/14 08:29	Return to Storage
JB67898-1.1.2	Metals Digestate Storage		08/05/14 09:00	Disposed
JB67898-1.2	Secured Storage	Gage Donahue	05/29/14 14:18	Retrieve from Storage
JB67898-1.2	Gage Donahue	Secured Staging Area	05/29/14 14:18	Return to Storage
JB67898-1.2	Secured Staging Area	Andrew Csimbok	05/29/14 14:19	Retrieve from Storage
JB67898-1.2	Andrew Csimbok	Secured Storage	05/29/14 16:35	Return to Storage
JB67898-1.2	Shirley Grzybowski		07/07/14 08:45	Disposed
JB67898-1.3	Secured Storage	Thien Nguyen	05/31/14 14:05	Retrieve from Storage

Accutest Internal Chain of Custody

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Job Number: JB67898
Account: LANGAN Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY
Received: 05/28/14

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB67898-1.3	Thien Nguyen	Secured Storage	05/31/14 14:05	Return to Storage
JB67898-1.3	Shirley Grzybowski		07/07/14 08:45	Disposed
JB67898-1.4	Secured Storage	Thien Nguyen	05/29/14 14:25	Retrieve from Storage
JB67898-1.4	Thien Nguyen	GCMS3V	05/29/14 14:25	Load on Instrument
JB67898-1.4	GCMS3V	Thien Nguyen	05/30/14 09:34	Unload from Instrument
JB67898-1.4	Thien Nguyen		05/30/14 09:35	Depleted
JB67898-1.5	Secured Storage	Thien Nguyen	05/30/14 12:00	Retrieve from Storage
JB67898-1.5	Thien Nguyen	GCMS3V	05/30/14 12:00	Load on Instrument
JB67898-1.5	GCMS3V	Thien Nguyen	06/02/14 10:33	Unload from Instrument
JB67898-1.5	Thien Nguyen	Secured Storage	06/02/14 10:33	Return to Storage
JB67898-1.5	Shirley Grzybowski		07/07/14 08:45	Disposed
JB67898-2.1	Secured Storage	Todd Shoemaker	05/29/14 09:45	Retrieve from Storage
JB67898-2.1	Todd Shoemaker	Secured Staging Area	05/29/14 09:46	Return to Storage
JB67898-2.1	Secured Staging Area	Mike Sikorsky	05/29/14 10:20	Retrieve from Storage
JB67898-2.1	Max Ponce	Secured Storage	05/29/14 14:58	Return to Storage
Bottle was returned to secure storage, but inadvertently not scanned.				
JB67898-2.1	Secured Storage	Juliana Franchetti	05/29/14 16:04	Retrieve from Storage
JB67898-2.1	Juliana Franchetti	Secured Storage	05/29/14 17:20	Return to Storage
JB67898-2.1	Secured Storage	Alfredo Crespo	06/06/14 07:17	Retrieve from Storage
JB67898-2.1	Alfredo Crespo	Secured Staging Area	06/06/14 07:18	Return to Storage
JB67898-2.1	Secured Staging Area	Darshananben Patel	06/06/14 11:17	Retrieve from Storage
JB67898-2.1	Darshananben Patel	Secured Storage	06/06/14 13:45	Return to Storage
JB67898-2.1	Secured Storage	Alfredo Crespo	06/10/14 08:58	Retrieve from Storage
JB67898-2.1	Alfredo Crespo	Secured Staging Area	06/10/14 09:09	Return to Storage
JB67898-2.1	Secured Staging Area	Darshananben Patel	06/10/14 09:10	Retrieve from Storage
JB67898-2.1	Darshananben Patel	Secured Storage	06/10/14 15:08	Return to Storage
JB67898-2.1	Secured Storage	Alfredo Crespo	06/11/14 07:24	Retrieve from Storage
JB67898-2.1	Alfredo Crespo	Secured Staging Area	06/11/14 07:24	Return to Storage
JB67898-2.1	Secured Staging Area	Jieyu Wang	06/11/14 08:31	Retrieve from Storage
JB67898-2.1	Jieyu Wang	Secured Storage	06/11/14 15:10	Return to Storage
JB67898-2.1	Shirley Grzybowski		07/07/14 08:45	Disposed
JB67898-2.1.1	Mike Sikorsky	Organics Prep	05/29/14 10:23	Extract from JB67898-2.1
JB67898-2.1.1	Organics Prep	Andrew Lee Smith	05/30/14 00:12	Extract from JB67898-2.1
JB67898-2.1.1	Andrew Lee Smith	GCMS6P	05/30/14 00:12	Load on Instrument
JB67898-2.1.1	GCMS6P	Kristi Schollenberger	06/21/14 09:48	Unload from Instrument
JB67898-2.1.1	Kristi Schollenberger	Extract Freezer	06/21/14 09:48	Return to Storage
JB67898-2.1.1	Extract Freezer		07/09/14 09:00	Disposed
JB67898-2.1.2	Juliana Franchetti	Metals Digestion	05/29/14 17:20	Digestate from JB67898-2.1
JB67898-2.1.2	Metals Digestion	Juliana Franchetti	05/29/14 17:20	Digestate from JB67898-2.1

Accutest Internal Chain of Custody

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Job Number: JB67898
Account: LANGAN Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY
Received: 05/28/14

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB67898-2.1.2	Juliana Franchetti	Metals Digestate Storage	05/29/14 17:20	Return to Storage
JB67898-2.1.2	Metals Digestate Storage	Ryan Rebo	05/30/14 16:48	Retrieve from Storage
JB67898-2.1.2	Ryan Rebo	Metals Digestate Storage	05/30/14 16:48	Return to Storage
JB67898-2.1.2	Metals Digestate Storage	Ryan Rebo	06/03/14 08:28	Retrieve from Storage
JB67898-2.1.2	Ryan Rebo	Metals Digestate Storage	06/03/14 08:29	Return to Storage
JB67898-2.1.2	Metals Digestate Storage		08/05/14 09:00	Disposed
JB67898-2.2	Secured Storage	Gage Donahue	05/29/14 14:18	Retrieve from Storage
JB67898-2.2	Gage Donahue	Secured Staging Area	05/29/14 14:18	Return to Storage
JB67898-2.2	Secured Staging Area	Andrew Csimbok	05/29/14 14:19	Retrieve from Storage
JB67898-2.2	Andrew Csimbok	Secured Storage	05/29/14 16:35	Return to Storage
JB67898-2.2	Shirley Grzybowski		07/07/14 08:45	Disposed
JB67898-2.4	Secured Storage	Thien Nguyen	05/29/14 14:25	Retrieve from Storage
JB67898-2.4	Thien Nguyen	GCMS3V	05/29/14 14:25	Load on Instrument
JB67898-2.4	GCMS3V	Thien Nguyen	05/30/14 09:34	Unload from Instrument
JB67898-2.4	Thien Nguyen		05/30/14 09:35	Depleted
JB67898-3.1	Secured Storage	Robert Szot	06/02/14 16:53	Retrieve from Storage
JB67898-3.1	Robert Szot	GCMS1C	06/02/14 16:53	Load on Instrument
JB67898-3.1	GCMS1C	Maricela Delgaolillo	06/03/14 11:23	Unload from Instrument
JB67898-3.1	Maricela Delgaolillo	Secured Storage	06/03/14 11:23	Return to Storage
JB67898-3.1	Shirley Grzybowski		07/07/14 08:45	Disposed
JB67898-4.1	Secured Storage	Donald Phelps	05/29/14 15:42	Retrieve from Storage
JB67898-4.1	Donald Phelps	Secured Staging Area	05/29/14 15:42	Return to Storage
JB67898-4.1	Secured Staging Area	Sheila Kore	05/29/14 15:51	Retrieve from Storage
JB67898-4.1	Sheila Kore		05/29/14 21:04	Depleted
JB67898-4.1.1	Sheila Kore	Organics Prep	05/29/14 15:51	Extract from JB67898-4.1
JB67898-4.1.1	Organics Prep	Seleb Pan	05/29/14 23:49	Extract from JB67898-4.1
JB67898-4.1.1	Seleb Pan	Extract Storage	05/29/14 23:49	Return to Storage
JB67898-4.1.1	Extract Storage	Olga Azarihn	05/30/14 11:01	Retrieve from Storage
JB67898-4.1.1	Olga Azarihn	GCMS2P	05/30/14 11:01	Load on Instrument
JB67898-4.1.1	GCMS2P	Harpreet Kaur	06/05/14 13:25	Unload from Instrument
JB67898-4.1.1	Harpreet Kaur	Extract Freezer	06/05/14 13:25	Return to Storage
JB67898-4.1.1	Extract Freezer		07/09/14 09:00	Disposed
JB67898-4.3	Secured Storage	Todd Shoemaker	05/30/14 14:16	Retrieve from Storage
JB67898-4.3	Todd Shoemaker	Secured Staging Area	05/30/14 14:16	Return to Storage
JB67898-4.3	Secured Staging Area	Juliana Franchetti	05/30/14 15:10	Retrieve from Storage
JB67898-4.3	Juliana Franchetti	Secured Storage	05/30/14 17:47	Return to Storage
JB67898-4.3	Secured Storage	Edwin Gonzalez	06/05/14 07:47	Retrieve from Storage
JB67898-4.3	Edwin Gonzalez	Secured Staging Area	06/05/14 07:47	Return to Storage

Accutest Internal Chain of Custody

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Job Number: JB67898

Account: LANGAN Langan Engineering & Environmental

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Received: 05/28/14

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB67898-4.3	Secured Staging Area	Jieyu Wang	06/05/14 08:26	Retrieve from Storage
JB67898-4.3	Jieyu Wang	Secured Storage	06/05/14 10:28	Return to Storage
JB67898-4.3	Shirley Grzybowski		07/07/14 08:45	Disposed
JB67898-4.4	Secured Storage	Robert Szot	06/02/14 16:53	Retrieve from Storage
JB67898-4.4	Robert Szot	GCMS1C	06/02/14 16:53	Load on Instrument
JB67898-4.4	GCMS1C	Maricela Delgaolillo	06/03/14 11:23	Unload from Instrument
JB67898-4.4	Maricela Delgaolillo	Secured Storage	06/03/14 11:23	Return to Storage
JB67898-4.4	Shirley Grzybowski		07/07/14 08:45	Disposed

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

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Job Number: JB67898

Account: LANGAN Langan Engineering & Environmental

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3V478-MB1	3V11272.D	1	05/29/14	TDN	n/a	n/a	V3V478

The QC reported here applies to the following samples:

Method: SW846 8260C

JB67898-1, JB67898-2

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	4.6	ug/kg	
71-43-2	Benzene	ND	1.0	0.13	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	0.52	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	0.28	ug/kg	
75-25-2	Bromoform	ND	5.0	0.26	ug/kg	
74-83-9	Bromomethane	ND	5.0	0.48	ug/kg	
78-93-3	2-Butanone (MEK)	ND	10	4.4	ug/kg	
75-15-0	Carbon disulfide	ND	5.0	0.14	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.0	0.25	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	0.20	ug/kg	
75-00-3	Chloroethane	ND	5.0	1.0	ug/kg	
67-66-3	Chloroform	ND	5.0	0.25	ug/kg	
74-87-3	Chloromethane	ND	5.0	0.34	ug/kg	
110-82-7	Cyclohexane	ND	5.0	0.26	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	1.3	ug/kg	
124-48-1	Dibromochloromethane	ND	5.0	0.24	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.0	0.55	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	5.0	0.34	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	5.0	0.22	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	5.0	0.25	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.35	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	0.31	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.0	0.32	ug/kg	
75-35-4	1,1-Dichloroethene	ND	5.0	0.29	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	5.0	0.21	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	5.0	0.42	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	0.44	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	0.23	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	0.27	ug/kg	
100-41-4	Ethylbenzene	ND	1.0	0.18	ug/kg	
76-13-1	Freon 113	ND	5.0	0.44	ug/kg	
591-78-6	2-Hexanone	ND	5.0	1.8	ug/kg	
98-82-8	Isopropylbenzene	ND	5.0	0.15	ug/kg	
79-20-9	Methyl Acetate	ND	5.0	1.7	ug/kg	
108-87-2	Methylcyclohexane	ND	5.0	0.16	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/kg	

6.1.1

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Method Blank Summary

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Job Number: JB67898**Account:** LANGAN Langan Engineering & Environmental**Project:** Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3V478-MB1	3V11272.D	1	05/29/14	TDN	n/a	n/a	V3V478

The QC reported here applies to the following samples:**Method:** SW846 8260C

JB67898-1, JB67898-2

CAS No.	Compound	Result	RL	MDL	Units	Q
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.3	ug/kg	
75-09-2	Methylene chloride	ND	5.0	1.7	ug/kg	
100-42-5	Styrene	ND	5.0	0.23	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	0.34	ug/kg	
127-18-4	Tetrachloroethene	ND	5.0	0.41	ug/kg	
108-88-3	Toluene	ND	1.0	0.14	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.21	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.18	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	0.29	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	0.82	ug/kg	
79-01-6	Trichloroethene	ND	5.0	0.35	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	0.23	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	0.34	ug/kg	
	m,p-Xylene	ND	1.0	0.48	ug/kg	
95-47-6	o-Xylene	ND	1.0	0.18	ug/kg	
1330-20-7	Xylene (total)	ND	1.0	0.18	ug/kg	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	107%
17060-07-0	1,2-Dichloroethane-D4	59-130%
2037-26-5	Toluene-D8	106%
460-00-4	4-Bromofluorobenzene	117%

Method Blank Summary

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Job Number: JB67898**Account:** LANGAN Langan Engineering & Environmental**Project:** Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1C5746-MB	1C128861.D	1	06/02/14	MD	n/a	n/a	V1C5746

The QC reported here applies to the following samples:**Method:** SW846 8260C

JB67898-3, JB67898-4

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.28	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.56	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	3.2	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.18	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.35	ug/l	
75-00-3	Chloroethane	ND	1.0	0.39	ug/l	
67-66-3	Chloroform	ND	1.0	0.25	ug/l	
74-87-3	Chloromethane	ND	1.0	0.36	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.18	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	1.3	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.19	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.16	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.20	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.31	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.63	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.22	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.34	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.24	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.38	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.28	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.15	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
76-13-1	Freon 113	ND	5.0	0.77	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.22	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.5	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.15	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	

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Method Blank Summary

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Job Number: JB67898**Account:** LANGAN Langan Engineering & Environmental**Project:** Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1C5746-MB	1C128861.D	1	06/02/14	MD	n/a	n/a	V1C5746

The QC reported here applies to the following samples:**Method:** SW846 8260C

JB67898-3, JB67898-4

CAS No.	Compound	Result	RL	MDL	Units	Q
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.5	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.86	ug/l	
100-42-5	Styrene	ND	5.0	0.30	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.25	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.24	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.22	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.33	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.41	ug/l	
	m,p-Xylene	ND	1.0	0.40	ug/l	
95-47-6	o-Xylene	ND	1.0	0.19	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	100% 79-120%
17060-07-0	1,2-Dichloroethane-D4	99% 72-123%
2037-26-5	Toluene-D8	103% 78-119%
460-00-4	4-Bromofluorobenzene	98% 74-119%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Blank Spike Summary

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Job Number: JB67898**Account:** LANGAN Langan Engineering & Environmental**Project:** Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3V478-BS	3V11273.D	1	05/29/14	TDN	n/a	n/a	V3V478

The QC reported here applies to the following samples:**Method:** SW846 8260C

JB67898-1, JB67898-2

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	50	42.3	85	50-147
71-43-2	Benzene	50	53.6	107	75-122
74-97-5	Bromochloromethane	50	51.8	104	77-127
75-27-4	Bromodichloromethane	50	55.2	110	79-132
75-25-2	Bromoform	50	55.3	111	76-134
74-83-9	Bromomethane	50	57.1	114	56-151
78-93-3	2-Butanone (MEK)	50	48.1	96	68-137
75-15-0	Carbon disulfide	50	56.3	113	70-129
56-23-5	Carbon tetrachloride	50	56.8	114	71-148
108-90-7	Chlorobenzene	50	56.1	112	78-120
75-00-3	Chloroethane	50	57.3	115	64-145
67-66-3	Chloroform	50	49.7	99	75-124
74-87-3	Chloromethane	50	57.9	116	51-139
110-82-7	Cyclohexane	50	55.5	111	67-133
96-12-8	1,2-Dibromo-3-chloropropane	50	50.0	100	69-134
124-48-1	Dibromochloromethane	50	55.3	111	79-130
106-93-4	1,2-Dibromoethane	50	55.8	112	80-122
95-50-1	1,2-Dichlorobenzene	50	54.9	110	76-118
541-73-1	1,3-Dichlorobenzene	50	54.1	108	75-120
106-46-7	1,4-Dichlorobenzene	50	53.9	108	73-116
75-71-8	Dichlorodifluoromethane	50	58.0	116	34-161
75-34-3	1,1-Dichloroethane	50	55.0	110	78-128
107-06-2	1,2-Dichloroethane	50	53.9	108	75-139
75-35-4	1,1-Dichloroethene	50	50.5	101	73-128
156-59-2	cis-1,2-Dichloroethene	50	44.6	89	76-123
156-60-5	trans-1,2-Dichloroethene	50	47.8	96	74-123
78-87-5	1,2-Dichloropropane	50	55.1	110	78-125
10061-01-5	cis-1,3-Dichloropropene	50	53.8	108	75-115
10061-02-6	trans-1,3-Dichloropropene	50	52.5	105	80-125
100-41-4	Ethylbenzene	50	54.6	109	75-122
76-13-1	Freon 113	50	53.4	107	60-155
591-78-6	2-Hexanone	50	48.6	97	69-134
98-82-8	Isopropylbenzene	50	57.0	114	73-123
79-20-9	Methyl Acetate	50	46.6	93	59-133
108-87-2	Methylcyclohexane	50	52.5	105	63-142
1634-04-4	Methyl Tert Butyl Ether	100	104	104	75-122

* = Outside of Control Limits.

Blank Spike Summary

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Job Number: JB67898**Account:** LANGAN Langan Engineering & Environmental**Project:** Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3V478-BS	3V11273.D	1	05/29/14	TDN	n/a	n/a	V3V478

The QC reported here applies to the following samples:**Method:** SW846 8260C

JB67898-1, JB67898-2

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
108-10-1	4-Methyl-2-pentanone(MIBK)	50	51.0	102	72-130
75-09-2	Methylene chloride	50	48.4	97	72-122
100-42-5	Styrene	50	59.6	119	79-123
79-34-5	1,1,2,2-Tetrachloroethane	50	53.4	107	70-117
127-18-4	Tetrachloroethene	50	55.2	110	70-136
108-88-3	Toluene	50	50.4	101	75-122
87-61-6	1,2,3-Trichlorobenzene	50	56.6	113	67-135
120-82-1	1,2,4-Trichlorobenzene	50	56.0	112	64-137
71-55-6	1,1,1-Trichloroethane	50	54.8	110	78-136
79-00-5	1,1,2-Trichloroethane	50	53.5	107	75-123
79-01-6	Trichloroethene	50	53.0	106	81-130
75-69-4	Trichlorofluoromethane	50	55.5	111	57-146
75-01-4	Vinyl chloride	50	57.9	116	55-133
	m,p-Xylene	100	108	108	75-122
95-47-6	o-Xylene	50	57.5	115	75-121
1330-20-7	Xylene (total)	150	165	110	75-122

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	104%	59-130%
17060-07-0	1,2-Dichloroethane-D4	100%	65-123%
2037-26-5	Toluene-D8	115%	77-125%
460-00-4	4-Bromofluorobenzene	116%	71-132%

* = Outside of Control Limits.

Blank Spike Summary

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Job Number: JB67898**Account:** LANGAN Langan Engineering & Environmental**Project:** Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1C5746-BS	1C128862.D	1	06/03/14	MD	n/a	n/a	V1C5746

The QC reported here applies to the following samples:**Method:** SW846 8260C

JB67898-3, JB67898-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	46.6	93	52-152
71-43-2	Benzene	50	49.7	99	80-121
74-97-5	Bromochloromethane	50	49.6	99	82-125
75-27-4	Bromodichloromethane	50	51.7	103	83-127
75-25-2	Bromoform	50	45.8	92	74-131
74-83-9	Bromomethane	50	46.6	93	45-155
78-93-3	2-Butanone (MEK)	50	50.5	101	67-136
75-15-0	Carbon disulfide	50	45.6	91	69-129
56-23-5	Carbon tetrachloride	50	52.0	104	77-138
108-90-7	Chlorobenzene	50	48.3	97	82-119
75-00-3	Chloroethane	50	56.5	113	61-151
67-66-3	Chloroform	50	51.3	103	79-124
74-87-3	Chloromethane	50	41.9	84	48-148
110-82-7	Cyclohexane	50	46.0	92	72-129
96-12-8	1,2-Dibromo-3-chloropropane	50	43.8	88	66-137
124-48-1	Dibromochloromethane	50	45.9	92	81-127
106-93-4	1,2-Dibromoethane	50	48.1	96	79-122
95-50-1	1,2-Dichlorobenzene	50	46.9	94	81-121
541-73-1	1,3-Dichlorobenzene	50	46.2	92	81-119
106-46-7	1,4-Dichlorobenzene	50	45.8	92	80-116
75-71-8	Dichlorodifluoromethane	50	39.2	78	33-161
75-34-3	1,1-Dichloroethane	50	49.5	99	78-129
107-06-2	1,2-Dichloroethane	50	52.0	104	75-133
75-35-4	1,1-Dichloroethene	50	49.1	98	74-128
156-59-2	cis-1,2-Dichloroethene	50	50.5	101	78-123
156-60-5	trans-1,2-Dichloroethene	50	49.5	99	75-122
78-87-5	1,2-Dichloropropane	50	51.2	102	80-124
10061-01-5	cis-1,3-Dichloropropene	50	47.5	95	75-114
10061-02-6	trans-1,3-Dichloropropene	50	45.1	90	78-123
100-41-4	Ethylbenzene	50	48.1	96	82-120
76-13-1	Freon 113	50	52.6	105	65-150
591-78-6	2-Hexanone	50	50.1	100	65-135
98-82-8	Isopropylbenzene	50	46.6	93	80-124
79-20-9	Methyl Acetate	50	44.9	90	53-137
108-87-2	Methylcyclohexane	50	45.5	91	62-142
1634-04-4	Methyl Tert Butyl Ether	100	94.8	95	74-123

* = Outside of Control Limits.

Blank Spike Summary

Page 2 of 2

Job Number: JB67898**Account:** LANGAN Langan Engineering & Environmental**Project:** Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1C5746-BS	1C128862.D	1	06/03/14	MD	n/a	n/a	V1C5746

The QC reported here applies to the following samples:**Method:** SW846 8260C

JB67898-3, JB67898-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
108-10-1	4-Methyl-2-pentanone(MIBK)	50	48.6	97	68-135
75-09-2	Methylene chloride	50	48.6	97	75-121
100-42-5	Styrene	50	49.9	100	81-123
79-34-5	1,1,2,2-Tetrachloroethane	50	41.2	82	71-123
127-18-4	Tetrachloroethene	50	50.0	100	69-141
108-88-3	Toluene	50	50.5	101	80-122
87-61-6	1,2,3-Trichlorobenzene	50	47.4	95	71-138
120-82-1	1,2,4-Trichlorobenzene	50	48.1	96	77-132
71-55-6	1,1,1-Trichloroethane	50	51.7	103	80-132
79-00-5	1,1,2-Trichloroethane	50	49.3	99	80-127
79-01-6	Trichloroethene	50	51.9	104	82-126
75-69-4	Trichlorofluoromethane	50	50.8	102	63-141
75-01-4	Vinyl chloride	50	45.3	91	53-135
	m,p-Xylene	100	96.7	97	81-121
95-47-6	o-Xylene	50	47.7	95	82-121
1330-20-7	Xylene (total)	150	144	96	82-121

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	101%	79-120%
17060-07-0	1,2-Dichloroethane-D4	99%	72-123%
2037-26-5	Toluene-D8	104%	78-119%
460-00-4	4-Bromofluorobenzene	95%	74-119%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 2

Job Number: JB67898**Account:** LANGAN Langan Engineering & Environmental**Project:** Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB67809-1MS	3V11282.D	1	05/29/14	TDN	n/a	n/a	V3V478
JB67809-1MSD	3V11283.D	1	05/29/14	TDN	n/a	n/a	V3V478
JB67809-1	3V11275.D	1	05/29/14	TDN	n/a	n/a	V3V478

The QC reported here applies to the following samples:**Method:** SW846 8260C

JB67898-1, JB67898-2

CAS No.	Compound	JB67809-1 ug/kg	Spike Q ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND	51.2	43.3	85	51.2	44.0	86	2	10-181/30
71-43-2	Benzene	ND	51.2	49.7	97	51.2	54.0	105	8	45-131/22
74-97-5	Bromochloromethane	ND	51.2	49.5	97	51.2	53.2	104	7	50-131/21
75-27-4	Bromodichloromethane	ND	51.2	51.8	101	51.2	55.7	109	7	44-138/22
75-25-2	Bromoform	ND	51.2	53.9	105	51.2	55.5	108	3	34-140/24
74-83-9	Bromomethane	ND	51.2	45.6	89	51.2	49.0	96	7	18-152/31
78-93-3	2-Butanone (MEK)	ND	51.2	45.0	88	51.2	46.3	90	3	25-156/27
75-15-0	Carbon disulfide	ND	51.2	48.9	95	51.2	52.6	103	7	28-139/25
56-23-5	Carbon tetrachloride	ND	51.2	48.4	95	51.2	51.7	101	7	33-153/25
108-90-7	Chlorobenzene	ND	51.2	51.4	100	51.2	55.2	108	7	34-138/24
75-00-3	Chloroethane	ND	51.2	46.9	92	51.2	50.4	98	7	26-142/27
67-66-3	Chloroform	ND	51.2	46.9	92	51.2	50.8	99	8	51-129/21
74-87-3	Chloromethane	ND	51.2	45.9	90	51.2	51.1	100	11	34-134/24
110-82-7	Cyclohexane	ND	51.2	33.1	65	51.2	35.8	70	8	13-150/28
96-12-8	1,2-Dibromo-3-chloropropane	ND	51.2	48.8	95	51.2	49.4	96	1	22-145/29
124-48-1	Dibromochloromethane	ND	51.2	53.0	103	51.2	55.7	109	5	41-137/22
106-93-4	1,2-Dibromoethane	ND	51.2	53.7	105	51.2	56.8	111	6	41-133/22
95-50-1	1,2-Dichlorobenzene	ND	51.2	49.3	96	51.2	52.9	103	7	22-140/27
541-73-1	1,3-Dichlorobenzene	ND	51.2	47.9	94	51.2	52.4	102	9	21-141/27
106-46-7	1,4-Dichlorobenzene	ND	51.2	47.3	92	51.2	51.4	100	8	20-140/27
75-71-8	Dichlorodifluoromethane	ND	51.2	25.5	50	51.2	27.4	54	7	10-156/30
75-34-3	1,1-Dichloroethane	ND	51.2	51.0	100	51.2	55.1	108	8	50-130/22
107-06-2	1,2-Dichloroethane	ND	51.2	51.3	100	51.2	55.1	108	7	49-136/21
75-35-4	1,1-Dichloroethene	ND	51.2	43.9	86	51.2	47.4	93	8	32-143/23
156-59-2	cis-1,2-Dichloroethene	ND	51.2	43.0	84	51.2	46.4	91	8	46-129/22
156-60-5	trans-1,2-Dichloroethene	ND	51.2	45.3	88	51.2	48.6	95	7	41-131/22
78-87-5	1,2-Dichloropropane	ND	51.2	51.5	101	51.2	55.8	109	8	46-131/21
10061-01-5	cis-1,3-Dichloropropene	ND	51.2	48.3	94	51.2	51.5	101	6	40-134/23
10061-02-6	trans-1,3-Dichloropropene	ND	51.2	49.4	96	51.2	52.2	102	6	37-137/23
100-41-4	Ethylbenzene	ND	51.2	49.5	97	51.2	52.9	103	7	30-139/26
76-13-1	Freon 113	ND	51.2	26.1	51	51.2	27.4	54	5	16-157/27
591-78-6	2-Hexanone	ND	51.2	48.5	95	51.2	48.2	94	1	19-155/29
98-82-8	Isopropylbenzene	ND	51.2	49.7	97	51.2	54.4	106	9	26-141/26
79-20-9	Methyl Acetate	ND	51.2	49.5	97	51.2	54.5	106	10	17-179/29
108-87-2	Methylcyclohexane	ND	51.2	24.8	48	51.2	26.4	52	6	10-150/30
1634-04-4	Methyl Tert Butyl Ether	ND	51.2	50.9	99	51.2	53.5	104	5	45-130/21

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Page 2 of 2

Job Number: JB67898

Account: LANGAN Langan Engineering & Environmental

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB67809-1MS	3V11282.D	1	05/29/14	TDN	n/a	n/a	V3V478
JB67809-1MSD	3V11283.D	1	05/29/14	TDN	n/a	n/a	V3V478
JB67809-1	3V11275.D	1	05/29/14	TDN	n/a	n/a	V3V478

The QC reported here applies to the following samples:

Method: SW846 8260C

JB67898-1, JB67898-2

CAS No.	Compound	JB67809-1 ug/kg	Spike Q	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		51.2	99	51.2	51.4	100	1	31-140/25
75-09-2	Methylene chloride	ND		51.2	91	51.2	49.7	97	7	44-127/21
100-42-5	Styrene	ND		51.2	107	51.2	58.4	114	7	30-143/26
79-34-5	1,1,2,2-Tetrachloroethane	ND		51.2	103	51.2	55.5	108	5	30-131/27
127-18-4	Tetrachloroethene	ND		51.2	95	51.2	52.7	103	9	15-183/26
108-88-3	Toluene	ND		51.2	92	51.2	50.6	99	7	38-135/23
87-61-6	1,2,3-Trichlorobenzene	ND		51.2	90	51.2	48.7	95	6	10-159/33
120-82-1	1,2,4-Trichlorobenzene	ND		51.2	86	51.2	47.1	92	7	10-161/33
71-55-6	1,1,1-Trichloroethane	ND		51.2	95	51.2	52.7	103	7	43-142/23
79-00-5	1,1,2-Trichloroethane	ND		51.2	101	51.2	54.3	106	5	37-135/25
79-01-6	Trichloroethene	ND		51.2	96	51.2	53.3	104	8	29-161/23
75-69-4	Trichlorofluoromethane	ND		51.2	68	51.2	37.5	73	7	14-160/29
75-01-4	Vinyl chloride	ND		51.2	87	51.2	49.1	96	10	31-140/24
	m,p-Xylene	ND		102	95	102	104	102	7	29-140/26
95-47-6	o-Xylene	ND		51.2	103	51.2	56.9	111	8	31-140/24
1330-20-7	Xylene (total)	ND		154	98	154	161	105	7	30-140/25

CAS No.	Surrogate Recoveries	MS	MSD	JB67809-1	Limits
1868-53-7	Dibromofluoromethane	106%	106%	107%	59-130%
17060-07-0	1,2-Dichloroethane-D4	102%	100%	103%	65-123%
2037-26-5	Toluene-D8	117%	116%	117%	77-125%
460-00-4	4-Bromofluorobenzene	116%	116%	117%	71-132%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 2

Job Number: JB67898

Account: LANGAN Langan Engineering & Environmental

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB67826-2MS	1C128863.D	20	06/03/14	MD	n/a	n/a	V1C5746
JB67826-2MSD	1C128864.D	20	06/03/14	MD	n/a	n/a	V1C5746
JB67826-2	1C128873.D	20	06/03/14	MD	n/a	n/a	V1C5746

The QC reported here applies to the following samples:

Method: SW846 8260C

JB67898-3, JB67898-4

CAS No.	Compound	JB67826-2		Spike	MS	MS	Spike	MSD	MSD	RPD	Limits
		ug/l	Q	ug/l	ug/l	%	ug/l	ug/l	%		
67-64-1	Acetone	ND		1000	924	92	1000	928	93	0	44-160/20
71-43-2	Benzene	11.8	J	1000	1030	102	1000	1060	105	3	50-136/12
74-97-5	Bromochloromethane	ND		1000	1040	104	1000	1070	107	3	74-131/11
75-27-4	Bromodichloromethane	ND		1000	1050	105	1000	1060	106	1	74-132/11
75-25-2	Bromoform	ND		1000	949	95	1000	962	96	1	68-136/12
74-83-9	Bromomethane	ND		1000	994	99	1000	1020	102	3	37-157/21
78-93-3	2-Butanone (MEK)	ND		1000	995	100	1000	986	99	1	60-145/15
75-15-0	Carbon disulfide	ND		1000	959	96	1000	999	100	4	37-143/17
56-23-5	Carbon tetrachloride	ND		1000	1060	106	1000	1090	109	3	46-152/17
108-90-7	Chlorobenzene	ND		1000	1010	101	1000	1040	104	3	70-127/12
75-00-3	Chloroethane	ND		1000	991	99	1000	1010	101	2	44-147/16
67-66-3	Chloroform	ND		1000	1060	106	1000	1080	108	2	67-129/12
74-87-3	Chloromethane	ND		1000	855	86	1000	873	87	2	40-149/19
110-82-7	Cyclohexane	213		1000	1180	97	1000	1220	101	3	31-153/21
96-12-8	1,2-Dibromo-3-chloropropane	ND		1000	932	93	1000	957	96	3	61-144/14
124-48-1	Dibromochloromethane	ND		1000	964	96	1000	984	98	2	74-131/10
106-93-4	1,2-Dibromoethane	ND		1000	989	99	1000	1000	100	1	74-129/10
95-50-1	1,2-Dichlorobenzene	ND		1000	996	100	1000	1050	105	5	73-126/11
541-73-1	1,3-Dichlorobenzene	ND		1000	988	99	1000	1050	105	6	71-124/12
106-46-7	1,4-Dichlorobenzene	ND		1000	980	98	1000	1040	104	6	71-123/12
75-71-8	Dichlorodifluoromethane	ND		1000	861	86	1000	875	88	2	20-161/25
75-34-3	1,1-Dichloroethane	ND		1000	1020	102	1000	1050	105	3	61-134/12
107-06-2	1,2-Dichloroethane	ND		1000	1060	106	1000	1060	106	0	68-137/11
75-35-4	1,1-Dichloroethene	ND		1000	1030	103	1000	1060	106	3	40-143/17
156-59-2	cis-1,2-Dichloroethene	ND		1000	1060	106	1000	1090	109	3	59-133/12
156-60-5	trans-1,2-Dichloroethene	ND		1000	1060	106	1000	1090	109	3	55-132/14
78-87-5	1,2-Dichloropropane	ND		1000	1010	101	1000	1040	104	3	70-128/11
10061-01-5	cis-1,3-Dichloropropene	ND		1000	1000	100	1000	1020	102	2	73-127/11
10061-02-6	trans-1,3-Dichloropropene	ND		1000	962	96	1000	974	97	1	72-128/11
100-41-4	Ethylbenzene	1670		1000	2580	91	1000	2660	99	3	49-137/13
76-13-1	Freon 113	ND		1000	1070	107	1000	1100	110	3	32-161/23
591-78-6	2-Hexanone	ND		1000	938	94	1000	929	93	1	59-145/14
98-82-8	Isopropylbenzene	121		1000	1110	99	1000	1190	107	7	57-136/14
79-20-9	Methyl Acetate	ND		1000	964	96	1000	936	94	3	46-148/15
108-87-2	Methylcyclohexane	64.8	J	1000	1030	97	1000	1080	102	5	30-155/21
1634-04-4	Methyl Tert Butyl Ether	ND		1000	992	99	1000	983	98	1	64-134/11

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Page 2 of 2

Job Number: JB67898

Account: LANGAN Langan Engineering & Environmental

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB67826-2MS	1C128863.D	20	06/03/14	MD	n/a	n/a	V1C5746
JB67826-2MSD	1C128864.D	20	06/03/14	MD	n/a	n/a	V1C5746
JB67826-2	1C128873.D	20	06/03/14	MD	n/a	n/a	V1C5746

The QC reported here applies to the following samples:

Method: SW846 8260C

JB67898-3, JB67898-4

CAS No.	Compound	JB67826-2 ug/l	Spike Q	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		1000	933	93	1000	929	93	0	63-144/13
75-09-2	Methylene chloride	ND		1000	1030	103	1000	1070	107	4	64-128/11
100-42-5	Styrene	ND		1000	1060	106	1000	1090	109	3	67-130/12
79-34-5	1,1,2,2-Tetrachloroethane	ND		1000	888	89	1000	942	94	6	68-131/11
127-18-4	Tetrachloroethene	ND		1000	1050	105	1000	1100	110	5	48-143/15
108-88-3	Toluene	834		1000	1820	99	1000	1850	102	2	54-137/13
87-61-6	1,2,3-Trichlorobenzene	ND		1000	1000	100	1000	1050	105	5	62-143/13
120-82-1	1,2,4-Trichlorobenzene	ND		1000	1040	104	1000	1080	108	4	66-138/12
71-55-6	1,1,1-Trichloroethane	ND		1000	1080	108	1000	1080	108	0	52-145/16
79-00-5	1,1,2-Trichloroethane	ND		1000	995	100	1000	998	100	0	73-130/10
79-01-6	Trichloroethene	ND		1000	1080	108	1000	1100	110	2	54-141/13
75-69-4	Trichlorofluoromethane	ND		1000	1050	105	1000	1070	107	2	33-159/25
75-01-4	Vinyl chloride	ND		1000	941	94	1000	959	96	2	36-149/19
	m,p-Xylene	4110		2000	5940	92	2000	6120	101	3	50-137/12
95-47-6	o-Xylene	877		1000	1850	97	1000	1920	104	4	60-134/12
1330-20-7	Xylene (total)	4990		3000	7790	93	3000	8040	102	3	53-136/12

CAS No.	Surrogate Recoveries	MS	MSD	JB67826-2	Limits
1868-53-7	Dibromofluoromethane	100%	101%	101%	79-120%
17060-07-0	1,2-Dichloroethane-D4	99%	98%	99%	72-123%
2037-26-5	Toluene-D8	102%	102%	104%	78-119%
460-00-4	4-Bromofluorobenzene	96%	100%	102%	74-119%

* = Outside of Control Limits.

Instrument Performance Check (BFB)

Page 1 of 1

Job Number: JB67898**Account:** LANGAN Langan Engineering & Environmental**Project:** Carroll Gardens, 363-365 Bond Street, Brooklyn, NY**Sample:** V1C5716-BFB**Injection Date:** 05/12/14**Lab File ID:** 1C128175.D**Injection Time:** 11:52**Instrument ID:** GCMS1C

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	13718	18.7	Pass
75	30.0 - 60.0% of mass 95	34213	46.7	Pass
95	Base peak, 100% relative abundance	73218	100.0	Pass
96	5.0 - 9.0% of mass 95	4643	6.34	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 120.0% of mass 95	68458	93.5	Pass
175	5.0 - 9.0% of mass 174	5576	7.62 (8.15) ^a	Pass
176	95.0 - 101.0% of mass 174	67693	92.5 (98.9) ^a	Pass
177	5.0 - 9.0% of mass 176	4516	6.17 (6.67) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V1C5716-IC5716	1C128176.D	05/12/14	12:25	00:33	Initial cal 0.2
V1C5716-IC5716	1C128177.D	05/12/14	12:54	01:02	Initial cal 0.5
V1C5716-IC5716	1C128178.D	05/12/14	13:22	01:30	Initial cal 1
V1C5716-IC5716	1C128179.D	05/12/14	13:50	01:58	Initial cal 2
V1C5716-IC5716	1C128180.D	05/12/14	14:18	02:26	Initial cal 5
V1C5716-IC5716	1C128181.D	05/12/14	14:46	02:54	Initial cal 10
V1C5716-IC5716	1C128182.D	05/12/14	15:14	03:22	Initial cal 20
V1C5716-ICC5716	1C128183.D	05/12/14	15:43	03:51	Initial cal 50
V1C5716-IC5716	1C128184.D	05/12/14	16:11	04:19	Initial cal 100
V1C5716-IC5716	1C128185.D	05/12/14	16:39	04:47	Initial cal 200
V1C5716-ICV5716	1C128188.D	05/12/14	18:09	06:17	Initial cal verification 50

Instrument Performance Check (BFB)

Page 1 of 1

Job Number: JB67898**Account:** LANGAN Langan Engineering & Environmental**Project:** Carroll Gardens, 363-365 Bond Street, Brooklyn, NY**Sample:** V1C5746-BFB**Injection Date:** 06/02/14**Lab File ID:** 1C128858.D**Injection Time:** 22:24**Instrument ID:** GCMS1C

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	13044	19.3	Pass
75	30.0 - 60.0% of mass 95	32501	48.1	Pass
95	Base peak, 100% relative abundance	67576	100.0	Pass
96	5.0 - 9.0% of mass 95	4596	6.80	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 120.0% of mass 95	64826	95.9	Pass
175	5.0 - 9.0% of mass 174	5321	7.87 (8.21) ^a	Pass
176	95.0 - 101.0% of mass 174	63600	94.1 (98.1) ^a	Pass
177	5.0 - 9.0% of mass 176	4258	6.30 (6.69) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V1C5746-CC5716	1C128859.D	06/02/14	22:53	00:29	Continuing cal 50
V1C5746-MB	1C128861.D	06/02/14	23:49	01:25	Method Blank
V1C5746-BS	1C128862.D	06/03/14	00:17	01:53	Blank Spike
JB67826-2MS	1C128863.D	06/03/14	00:46	02:22	Matrix Spike
JB67826-2MSD	1C128864.D	06/03/14	01:14	02:50	Matrix Spike Duplicate
JB67898-3	1C128866.D	06/03/14	02:11	03:47	289-TB-5
JB67898-4	1C128867.D	06/03/14	02:39	04:15	290-FB-6
ZZZZZZ	1C128868.D	06/03/14	03:08	04:44	(unrelated sample)
ZZZZZZ	1C128869.D	06/03/14	03:36	05:12	(unrelated sample)
ZZZZZZ	1C128870.D	06/03/14	04:04	05:40	(unrelated sample)
ZZZZZZ	1C128871.D	06/03/14	04:32	06:08	(unrelated sample)
ZZZZZZ	1C128872.D	06/03/14	05:01	06:37	(unrelated sample)
JB67826-2	1C128873.D	06/03/14	05:29	07:05	(used for QC only; not part of job JB67898)
ZZZZZZ	1C128874.D	06/03/14	05:58	07:34	(unrelated sample)
ZZZZZZ	1C128875.D	06/03/14	06:26	08:02	(unrelated sample)
ZZZZZZ	1C128877.D	06/03/14	07:22	08:58	(unrelated sample)

Instrument Performance Check (BFB)

Page 1 of 1

Job Number: JB67898**Account:** LANGAN Langan Engineering & Environmental**Project:** Carroll Gardens, 363-365 Bond Street, Brooklyn, NY**Sample:** V3V474-BFB**Injection Date:** 05/22/14**Lab File ID:** 3V11182.D**Injection Time:** 09:42**Instrument ID:** GCMS3V

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	12725	15.3	Pass
75	30.0 - 60.0% of mass 95	36133	43.3	Pass
95	Base peak, 100% relative abundance	83405	100.0	Pass
96	5.0 - 9.0% of mass 95	5637	6.76	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 120.0% of mass 95	76061	91.2	Pass
175	5.0 - 9.0% of mass 174	5852	7.02 (7.69) ^a	Pass
176	95.0 - 101.0% of mass 174	73779	88.5 (97.0) ^a	Pass
177	5.0 - 9.0% of mass 176	4785	5.74 (6.49) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V3V474-IC474	3V11183.D	05/22/14	10:20	00:38	Initial cal 0.2
V3V474-IC474	3V11184.D	05/22/14	10:47	01:05	Initial cal 0.5
V3V474-IC474	3V11185.D	05/22/14	11:14	01:32	Initial cal 1
V3V474-IC474	3V11186.D	05/22/14	11:41	01:59	Initial cal 2
V3V474-IC474	3V11187.D	05/22/14	12:08	02:26	Initial cal 5
V3V474-IC474	3V11188.D	05/22/14	12:34	02:52	Initial cal 10
V3V474-IC474	3V11189.D	05/22/14	13:01	03:19	Initial cal 20
V3V474-ICC474	3V11190.D	05/22/14	13:28	03:46	Initial cal 50
V3V474-IC474	3V11191.D	05/22/14	13:54	04:12	Initial cal 100
V3V474-IC474	3V11192.D	05/22/14	14:21	04:39	Initial cal 200
V3V474-ICV474	3V11195.D	05/22/14	15:41	05:59	Initial cal verification 50

Instrument Performance Check (BFB)

Job Number: JB67898

Account: LANGAN Langan Engineering & Environmental

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Sample: V3V478-BFB

Injection Date: 05/29/14

Lab File ID: 3V11269.D

Injection Time: 08:30

Instrument ID: GCMS3V

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	13088	15.7	Pass
75	30.0 - 60.0% of mass 95	36077	43.3	Pass
95	Base peak, 100% relative abundance	83291	100.0	Pass
96	5.0 - 9.0% of mass 95	5552	6.67	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 120.0% of mass 95	77629	93.2	Pass
175	5.0 - 9.0% of mass 174	5800	6.96 (7.47) ^a	Pass
176	95.0 - 101.0% of mass 174	75213	90.3 (96.9) ^a	Pass
177	5.0 - 9.0% of mass 176	4865	5.84 (6.47) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V3V478-CC474	3V11270.D	05/29/14	09:19	00:49	Continuing cal 20
V3V478-MB1	3V11272.D	05/29/14	10:24	01:54	Method Blank
V3V478-BS	3V11273.D	05/29/14	11:06	02:36	Blank Spike
JB67809-1	3V11275.D	05/29/14	12:00	03:30	(used for QC only; not part of job JB67898)
ZZZZZZ	3V11276.D	05/29/14	12:26	03:56	(unrelated sample)
ZZZZZZ	3V11277.D	05/29/14	12:54	04:24	(unrelated sample)
ZZZZZZ	3V11278.D	05/29/14	13:20	04:50	(unrelated sample)
ZZZZZZ	3V11279.D	05/29/14	13:47	05:17	(unrelated sample)
ZZZZZZ	3V11280.D	05/29/14	14:13	05:43	(unrelated sample)
ZZZZZZ	3V11281.D	05/29/14	14:40	06:10	(unrelated sample)
JB67809-1MS	3V11282.D	05/29/14	15:07	06:37	Matrix Spike
JB67809-1MSD	3V11283.D	05/29/14	15:33	07:03	Matrix Spike Duplicate
ZZZZZZ	3V11285.D	05/29/14	16:27	07:57	(unrelated sample)
ZZZZZZ	3V11286.D	05/29/14	16:54	08:24	(unrelated sample)
ZZZZZZ	3V11287.D	05/29/14	17:20	08:50	(unrelated sample)
ZZZZZZ	3V11288.D	05/29/14	17:47	09:17	(unrelated sample)
ZZZZZZ	3V11289.D	05/29/14	18:13	09:43	(unrelated sample)
ZZZZZZ	3V11290.D	05/29/14	18:40	10:10	(unrelated sample)
ZZZZZZ	3V11291.D	05/29/14	19:07	10:37	(unrelated sample)
JB67898-2	3V11292.D	05/29/14	19:33	11:03	288-PE-60
JB67898-1	3V11293.D	05/29/14	20:00	11:30	287-DEC-3

Instrument Performance Check (BFB)**Job Number:** JB67898**Account:** LANGAN Langan Engineering & Environmental**Project:** Carroll Gardens, 363-365 Bond Street, Brooklyn, NY**Sample:** V3V480-BFB**Injection Date:** 05/31/14**Lab File ID:** 3V11326.D**Injection Time:** 10:57**Instrument ID:** GCMS3V

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	14739	16.3	Pass
75	30.0 - 60.0% of mass 95	39387	43.6	Pass
95	Base peak, 100% relative abundance	90275	100.0	Pass
96	5.0 - 9.0% of mass 95	5866	6.50	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 120.0% of mass 95	81053	89.8	Pass
175	5.0 - 9.0% of mass 174	6282	6.96 (7.75) ^a	Pass
176	95.0 - 101.0% of mass 174	79152	87.7 (97.7) ^a	Pass
177	5.0 - 9.0% of mass 176	5167	5.72 (6.53) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V3V480-CC474	3V11328.D	05/31/14	12:52	01:55	Continuing cal 20
V3V480-MB1	3V11329.D	05/31/14	13:30	02:33	Method Blank
V3V480-BS	3V11330.D	05/31/14	14:11	03:14	Blank Spike
ZZZZZZ	3V11332.D	05/31/14	15:48	04:51	(unrelated sample)
JB67898-1	3V11333.D	05/31/14	16:14	05:17	287-DEC-3
JB67268-2	3V11334.D	05/31/14	16:41	05:44	(used for QC only; not part of job JB67898)
JB67268-2MS	3V11335.D	05/31/14	17:18	06:21	Matrix Spike
JB67268-2MSD	3V11336.D	05/31/14	17:44	06:47	Matrix Spike Duplicate
JB67268-2	3V11338.D	05/31/14	18:38	07:41	(used for QC only; not part of job JB67898)
V3V481-MB	3V11343.D	05/31/14	19:59	09:02	Method Blank
V3V481-BS	3V11344.D	05/31/14	20:25	09:28	Blank Spike
JB68023-4MS	3V11345.D	05/31/14	20:52	09:55	Matrix Spike
JB68023-4MSD	3V11346.D	05/31/14	21:19	10:22	Matrix Spike Duplicate
JB68023-4	3V11348.D	05/31/14	22:13	11:16	(used for QC only; not part of job JB67898)
ZZZZZZ	3V11349.D	05/31/14	22:39	11:42	(unrelated sample)

Volatile Internal Standard Area Summary

Page 1 of 1

Job Number: JB67898

Account: LANGAN Langan Engineering & Environmental

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Check Std: V1C5746-CC5716

Injection Date: 06/02/14

Lab File ID: 1C128859.D

Injection Time: 22:53

Instrument ID: GCMS1C

Method: SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	108431	7.13	146005	9.63	221548	10.58	212385	13.94	127793	16.42
Upper Limit ^a	216862	7.63	292010	10.13	443096	11.08	424770	14.44	255586	16.92
Lower Limit ^b	54216	6.63	73003	9.13	110774	10.08	106193	13.44	63897	15.92

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
V1C5746-MB	110169	7.13	146535	9.63	220230	10.58	210054	13.94	129340	16.42
V1C5746-BS	126487	7.14	148773	9.63	224372	10.58	219711	13.94	139153	16.42
JB67826-2MS	122129	7.13	151000	9.62	231767	10.58	221440	13.94	137045	16.42
JB67826-2MSD	121087	7.12	157800	9.63	240909	10.58	227886	13.94	135229	16.42
JB67898-3	122972	7.12	159276	9.63	238059	10.58	224429	13.94	131289	16.42
JB67898-4	113087	7.12	158459	9.62	240260	10.58	228735	13.94	139406	16.42
ZZZZZZ	109139	7.13	158082	9.63	240527	10.58	224509	13.94	133154	16.42
ZZZZZZ	104189	7.13	156847	9.63	238273	10.59	224152	13.94	135272	16.42
ZZZZZZ	113019	7.13	153180	9.63	231377	10.58	218318	13.94	129536	16.42
ZZZZZZ	126505	7.12	149855	9.62	224286	10.58	211342	13.94	122481	16.42
ZZZZZZ	130305	7.12	151771	9.62	227800	10.58	220325	13.94	133111	16.42
JB67826-2	131057	7.11	161025	9.62	243965	10.58	232507	13.94	133594	16.42
ZZZZZZ	128385	7.12	158637	9.63	239216	10.58	224618	13.94	130855	16.42
ZZZZZZ	115480	7.12	162983	9.62	242454	10.58	226420	13.94	125195	16.42
ZZZZZZ	139203	7.12	164751	9.63	249731	10.59	239491	13.94	143395	16.42

IS 1 = Tert Butyl Alcohol-D9

IS 2 = Pentafluorobenzene

IS 3 = 1,4-Difluorobenzene

IS 4 = Chlorobenzene-D5

IS 5 = 1,4-Dichlorobenzene-d4

(a) Upper Limit = + 100% of check standard area; Retention time +0.5 minutes.

(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Internal Standard Area Summary

Page 1 of 1

Job Number: JB67898

Account: LANGAN Langan Engineering & Environmental

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Check Std: V3V478-CC474

Injection Date: 05/29/14

Lab File ID: 3V11270.D

Injection Time: 09:19

Instrument ID: GCMS3V

Method: SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	93695	7.30	168725	9.78	248684	10.75	226288	13.96	146904	16.32
Upper Limit ^a	187390	7.80	337450	10.28	497368	11.25	452576	14.46	293808	16.82
Lower Limit ^b	46848	6.80	84363	9.28	124342	10.25	113144	13.46	73452	15.82

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
V3V478-MB1	80685	7.30	154729	9.79	227575	10.75	211808	13.97	134333	16.32
V3V478-BS	75435	7.28	154247	9.78	227922	10.75	204001	13.96	131543	16.32
JB67809-1	91891	7.31	167331	9.79	247480	10.75	227897	13.97	145049	16.32
ZZZZZZ	81309	7.29	163084	9.79	239393	10.75	219612	13.97	137643	16.32
ZZZZZZ	81063	7.30	152272	9.78	224323	10.75	205141	13.96	128633	16.32
ZZZZZZ	74101	7.31	156501	9.79	226865	10.75	210509	13.97	133500	16.32
ZZZZZZ	81418	7.30	150734	9.79	224304	10.75	207948	13.97	131777	16.32
ZZZZZZ	80388	7.31	163301	9.79	242275	10.75	224190	13.97	140638	16.32
ZZZZZZ	79987	7.31	155294	9.79	231786	10.75	211982	13.97	135600	16.32
JB67809-1MS	86486	7.29	163464	9.79	239433	10.75	218334	13.96	142936	16.32
JB67809-1MSD	76232	7.30	158845	9.79	234367	10.75	211188	13.97	134972	16.32
ZZZZZZ	84435	7.28	146898	9.78	216044	10.75	199714	13.96	128179	16.32
ZZZZZZ	74351	7.28	147564	9.78	216696	10.75	195711	13.97	122225	16.32
ZZZZZZ	75482	7.31	158759	9.79	233621	10.75	214727	13.97	137245	16.32
ZZZZZZ	76875	7.28	154080	9.79	224920	10.75	207581	13.97	128316	16.32
ZZZZZZ	69728	7.28	150659	9.79	223043	10.75	206989	13.97	132208	16.32
ZZZZZZ	78904	7.32	151419	9.79	223606	10.75	207619	13.96	130517	16.32
ZZZZZZ	68792	7.30	149873	9.79	220983	10.75	203825	13.97	130045	16.32
JB67898-2	81263	7.28	146719	9.78	218129	10.75	204507	13.96	127192	16.32
JB67898-1	71180	7.30	156109	9.79	226846	10.75	231910	13.97	153428	16.33

IS 1 = Tert Butyl Alcohol-D9

IS 2 = Pentafluorobenzene

IS 3 = 1,4-Difluorobenzene

IS 4 = Chlorobenzene-D5

IS 5 = 1,4-Dichlorobenzene-d4

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.

(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Internal Standard Area Summary

Page 1 of 1

Job Number: JB67898

Account: LANGAN Langan Engineering & Environmental

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Check Std: V3V480-CC474

Injection Date: 05/31/14

Lab File ID: 3V11328.D

Injection Time: 12:52

Instrument ID: GCMS3V

Method: SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	91379	7.28	173985	9.78	248596	10.75	228449	13.96	140718	16.32
Upper Limit ^a	182758	7.78	347970	10.28	497192	11.25	456898	14.46	281436	16.82
Lower Limit ^b	45690	6.78	86993	9.28	124298	10.25	114225	13.46	70359	15.82

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
V3V480-MB1	94711	7.30	172130	9.78	247490	10.75	222622	13.96	139324	16.32
V3V480-BS	101729	7.28	178076	9.78	257977	10.75	230274	13.96	148887	16.32
ZZZZZZ	107885	7.31	178494	9.78	258103	10.75	238187	13.96	147482	16.32
JB67898-1 ^c	79570	7.30	183999	9.79	260707	10.75	233492	13.96	151995	16.32
JB67268-2	98847	7.30	174596	9.78	244653	10.75	207250	13.97	142677	16.32
JB67268-2MS	113343	7.30	216642	9.79	302675	10.75	257546	13.97	168598	16.32
JB67268-2MSD	109598	7.31	218501	9.79	298570	10.75	248965	13.97	168375	16.32
JB67268-2	93077	7.30	216434	9.79	299515	10.75	267396	13.97	164349	16.32
V3V481-MB	88290	7.30	199259	9.79	278130	10.75	252307	13.96	163537	16.32
V3V481-BS	99560	7.29	202648	9.79	283663	10.75	252026	13.97	159918	16.32
JB68023-4MS	69948	7.30	209417	9.79	288404	10.75	247810	13.97	150624	16.32
JB68023-4MSD	76660	7.30	198096	9.79	273705	10.75	225641	13.96	147596	16.32
JB68023-4	87671	7.30	198979	9.79	277355	10.75	251036	13.96	157341	16.32
ZZZZZZ	92665	7.29	207016	9.79	289286	10.75	265126	13.97	167342	16.32

IS 1 = Tert Butyl Alcohol-D9

IS 2 = Pentafluorobenzene

IS 3 = 1,4-Difluorobenzene

IS 4 = Chlorobenzene-D5

IS 5 = 1,4-Dichlorobenzene-d4

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.

(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

(c) Confirmation run for surrogate recoveries.

Volatile Surrogate Recovery Summary

Page 1 of 1

Job Number: JB67898

Account: LANGAN Langan Engineering & Environmental

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Method: SW846 8260C

Matrix: AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
JB67898-3	1C128866.D	99	96	102	101
JB67898-4	1C128867.D	100	98	102	98
JB67826-2MS	1C128863.D	100	99	102	96
JB67826-2MSD	1C128864.D	101	98	102	100
V1C5746-BS	1C128862.D	101	99	104	95
V1C5746-MB	1C128861.D	100	99	103	98

Surrogate Compounds

Recovery Limits

S1 = Dibromofluoromethane	79-120%
S2 = 1,2-Dichloroethane-D4	72-123%
S3 = Toluene-D8	78-119%
S4 = 4-Bromofluorobenzene	74-119%

6.6.1

6

Volatile Surrogate Recovery Summary

Page 1 of 1

Job Number: JB67898

Account: LANGAN Langan Engineering & Environmental

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Method: SW846 8260C

Matrix: SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
JB67898-1	3V11333.D	85	83	103	102
JB67898-1	3V11293.D	104	101	126* a	116
JB67898-2	3V11292.D	109	109	117	119
JB67809-1MS	3V11282.D	106	102	117	116
JB67809-1MSD	3V11283.D	106	100	116	116
V3V478-BS	3V11273.D	104	100	115	116
V3V478-MB1	3V11272.D	107	106	117	117

Surrogate Compounds

Recovery Limits

S1 = Dibromofluoromethane

59-130%

S2 = 1,2-Dichloroethane-D4

65-123%

S3 = Toluene-D8

77-125%

S4 = 4-Bromofluorobenzene

71-132%

(a) Outside control limits due to matrix interference.

6.6.2

6

Initial Calibration Summary

Page 1 of 5

Job Number: JB67898

Sample: V1C5716-ICC5716

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 1C128183.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Response Factor Report MS1C

Method : C:\MSDCHEM\1\METHODS\M1C5716.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
Last Update : Tue May 13 12:33:26 2014
Response via : Initial Calibration

Calibration Files

1 =1C128178.D 2 =1C128179.D 100 =1C128184.D 50 =1C128183.D
20 =1C128182.D 200 =1C128185.D 5 =1C128180.D 10 =1C128181.D
0.5 =1C128177.D 0.2 =1C128176.D = =

Compound	1	2	100	50	20	200	5	10	0.5	0.2	Avg	%RSD
1) I Tert Butyl Alcohol-d9 -----ISTD-----												
2) tertiary butyl alcohol												
	1.291	1.285	1.141	1.193	1.346	1.067	1.246	1.234			1.225	7.32
3) 1,4-dioxane												
	0.087	0.092	0.099	0.110	0.089	0.098	0.097				0.096	7.99
4) I pentafluorobenzene -----ISTD-----												
5) Freon 115												
											0.000#	-1.00
6) Freon 143a											0.000#	-1.00
7) Freon 152a											0.000#	-1.00
8) chlorotrifluoroethene											0.000#	-1.00
9) chlorodifluoromethane											0.000#	-1.00
	0.556	0.526	0.515	0.513	0.551	0.525	0.549	0.498			0.529	3.93
10) dichlorodifluoromethane												
	0.918	0.886	0.779	0.808	0.877	0.787	0.837	0.812			0.838	6.05
11) Freon 142b											0.000#	-1.00
12) chloromethane												
	1.262	1.151	1.059	1.079	1.093	1.020	1.104	1.064	1.037	1.198	1.106	6.87
13) vinyl chloride												
	1.138	1.021	0.975	0.986	1.012	0.947	1.024	0.960	0.829	0.839	0.973	9.28
14) bromomethane												
	0.698	0.647	0.549	0.594	0.611	0.442	0.613	0.598			0.594	12.62
15) chloroethane												
	0.476	0.439	0.385	0.413	0.429	0.301	0.447	0.427			0.415	12.73
16) PENTANE											0.000#	-1.00
17) 1,3-BUTADIENE											0.000#	-1.00
18) vinyl bromide											0.000#	-1.00
19) trichlorofluoromethane											0.000#	-1.00
	1.031	0.953	0.900	0.924	0.985	0.923	0.940	0.934			0.949	4.37
20) ethyl ether												
	0.308	0.321	0.330	0.332	0.352	0.319	0.325	0.331			0.327	3.91
21) freon 123a											0.000#	-1.00
22) acrolein												
	0.165	0.167	0.162	0.165	0.176	0.163	0.167	0.166			0.167	2.59
23) 1,1-dichloroethene												

Initial Calibration Summary

Job Number: JB67898

Sample: V1C5716-ICC5716

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 1C128183.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

24)	acetone	0.617	0.534	0.556	0.551	0.578	0.550	0.573	0.550	0.454	0.551	7.91
25)	acetonitrile	0.327	0.266	0.255	0.255	0.261	0.253	0.260	0.249	0.268	0.266	8.89
26)	allyl chloride	0.070	0.072	0.093	0.067	0.083	0.091				0.080	14.00
27)	iodomethane	0.261	0.275	0.290	0.294	0.315	0.294	0.303	0.298		0.291	5.75
28)	carbon disulfide	1.305	1.044	1.093	1.092	1.136	1.075	1.142	1.091	0.904	1.098	9.54
29)	2-CHLOROPROPANE	2.366	1.981	1.986	2.101	1.934	2.260	2.041			2.096	7.65
30)	methylene chloride	1.360	1.137	1.132	1.144	1.222	1.090	1.202	1.162	0.981	1.159	8.86
31)	methyl acetate	0.705	0.652	0.623	0.631	0.667	0.611	0.673	0.640	0.548	0.645	7.17
32)	methyl tert butyl ether	0.590	0.576	0.607	0.615	0.661	0.593	0.625	0.603		0.609	4.27
33)	trans-1,2-dichloroethene	2.239	1.907	1.892	1.898	1.995	1.789	1.938	1.909	1.698	1.922	7.30
34)	1-CHLOROPROPANE	0.661	0.542	0.557	0.563	0.596	0.559	0.595	0.583	0.404	0.562	12.25
		1.141	1.210	1.400	1.101	1.900	1.491				1.374	21.75
	----- Linear regression ----- Coefficient = 0.9998											
	Response Ratio = 0.10708 + 1.07828 *A											
35)	di-isopropyl ether	2.600	2.302	2.126	2.148	2.282	2.074	2.293	2.147	1.877	2.171	10.01
36)	2-butanone	0.090	0.089	0.093	0.088	0.069	0.083				0.085	10.01
37)	1,1-dichloroethane	1.309	1.130	1.121	1.139	1.211	1.098	1.179	1.157	0.990	1.148	7.51
38)	chloroprene	0.934	0.861	0.803	0.817	0.873	0.813	0.857	0.807		0.846	5.30
39)	acrylonitrile	0.295	0.279	0.290	0.292	0.311	0.279	0.296	0.293		0.292	3.49
40)	vinyl acetate	0.108	0.107	0.102	0.108			0.084			0.102	9.91
41)	ethyl tert-butyl ether	2.351	2.100	1.961	1.972	2.096	1.908	2.088	1.955	1.759	2.003	8.28
42)	ethyl acetate	0.124	0.123	0.132	0.123	0.109	0.107				0.119	7.97
43)	2,2-dichloropropane	1.094	0.890	0.851	0.854	0.920	0.832	0.941	0.875	0.828	0.898	9.21
44)	cis-1,2-dichloroethene	0.690	0.592	0.621	0.626	0.665	0.618	0.650	0.641	0.506	0.623	8.41
45)	propionitrile	0.131	0.120	0.122	0.121	0.132	0.117	0.120	0.122	0.097	0.120	8.42
46)	methylacrylate	0.772	0.747	0.881	0.869	0.921	0.844	0.843	0.840		0.840	6.76
47)	bromochloromethane	0.302	0.313	0.318	0.319	0.340	0.314	0.316	0.322		0.318	3.35
48)	tetrahydrofuran	0.105	0.104	0.112	0.104	0.100	0.101				0.104	4.05
49)	chloroform	0.774	0.677	0.653	0.656	0.701	0.646	0.694	0.684	0.624	0.664	9.33
50)	T-BUTYL FORMATE	0.691	0.585	0.599	0.594	0.636	0.566	0.618	0.597		0.611	6.33
51)	isobutyl alcohol	0.050	0.051	0.049	0.049	0.055	0.047	0.049	0.047	0.040	0.049	8.11

Initial Calibration Summary

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Job Number: JB67898

Sample: V1C5716-ICC5716

Account: LANGAN Langan Engineering & Environmental

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Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

52)	dibromofluoromethane (s)	0.721	0.616	0.544	0.554	0.553	0.558	0.587	0.572	0.580	0.587	9.34	
53)	1,2-dichloroethane-d4 (s)	0.738	0.724	0.630	0.644	0.660	0.627	0.726	0.684	0.693	0.681	6.27	
54)	freon 113	0.398	0.417	0.406	0.411	0.444	0.412	0.434	0.394		0.415	4.11	
55)	methacrylonitrile	0.251	0.301	0.297	0.315	0.294	0.280	0.294			0.290	7.00	
56)	1,1,1-trichloroethane	1.006	0.888	0.871	0.876	0.930	0.853	0.936	0.881	0.727	0.885	8.54	
57)	Cyclohexane	1.108	0.888	0.885	0.893	0.956	0.890	0.946	0.902	0.835	0.923	8.46	
58)	I 1,4-difluorobenzene	-----ISTD-----											
59)	ISO-OCTANE	1.841	1.703	1.520	1.556	1.673	1.546	1.684	1.442		1.621	7.87	
60)	epichlorohydrin	0.063	0.061	0.058	0.058	0.063	0.058	0.058	0.056		0.059	4.20	
61)	n-butyl alcohol	0.021	0.020	0.020	0.020	0.022	0.019	0.020	0.019		0.020	4.97	
62)	carbon tetrachloride	0.615	0.520	0.526	0.527	0.552	0.516	0.546	0.520	0.451	0.530	8.08	
63)	1,1-dichloropropene	0.571	0.497	0.521	0.520	0.557	0.516	0.553	0.519	0.417	0.519	8.68	
64)	hexane	0.526	0.482	0.414	0.427	0.468	0.427	0.475	0.418		0.454	8.72	
65)	benzene	1.817	1.522	1.520	1.523	1.612	1.497	1.580	1.559	1.481	1.682	1.579	6.50
66)	tert-amyl methyl ether	1.503	1.373	1.283	1.291	1.356	1.254	1.350	1.254	1.131	1.214	1.301	7.80
67)	heptane	0.309	0.296	0.266	0.276	0.304	0.274	0.307	0.263		0.287	6.65	
68)	isopropyl acetate	1.356	1.245	1.153	1.233	1.218	1.138	1.242	1.129	1.015	1.192	8.07	
69)	1,2-dichloroethane	0.584	0.510	0.522	0.525	0.558	0.503	0.519	0.530	0.415	0.518	8.94	
70)	trichloroethene	0.428	0.364	0.377	0.379	0.405	0.375	0.394	0.379	0.301	0.378	9.15	
71)	2-nitropropane	0.218	0.182	0.184	0.184	0.197	0.174	0.189	0.178		0.188	7.37	
72)	2-chloroethyl vinyl ether	0.309	0.283	0.281	0.280	0.294	0.274	0.279	0.267	0.220	0.276	8.82	
73)	methyl methacrylate	0.115	0.112	0.112	0.117	0.112	0.100	0.104			0.110	6.13	
74)	1,2-dichloropropane	0.476	0.406	0.431	0.431	0.450	0.418	0.441	0.433	0.361	0.427	7.40	
75)	dibromomethane	0.288	0.256	0.260	0.261	0.277	0.255	0.255	0.263	0.197	0.257	9.73	
76)	methylcyclohexane	0.721	0.680	0.598	0.613	0.650	0.612	0.664	0.577		0.639	7.49	
77)	bromodichloromethane	0.608	0.519	0.534	0.535	0.558	0.524	0.534	0.538	0.488	0.491	0.533	6.37
78)	ETHYL ACRYLATE										0.000#	-1.00	
79)	cis-1,3-dichloropropene	0.737	0.633	0.682	0.675	0.711	0.666	0.684	0.662	0.555	0.655	0.666	7.31
80)	toluene-d8 (s)	1.673	1.482	1.318	1.325	1.311	1.354	1.387	1.355		1.401	8.79	
81)	4-methyl-2-pentanone	0.234	0.202	0.222	0.218	0.237	0.216	0.221	0.217		0.221	4.91	

6.7.1
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Initial Calibration Summary

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Job Number: JB67898

Sample: V1C5716-ICC5716

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 1C128183.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

82)	toluene	1.054	0.901	0.923	0.919	0.959	0.919	0.941	0.909	0.894	0.987	0.941	5.16
83)	3-methyl-1-butanol	0.036	0.032	0.033	0.033	0.035	0.032	0.032	0.031			0.033	5.01
84)	trans-1,3-dichloropropene	0.709	0.595	0.640	0.632	0.662	0.628	0.620	0.614			0.637	5.47
85)	ethyl methacrylate	0.650	0.526	0.605	0.592	0.627	0.602	0.565	0.555			0.590	6.79
86)	1,1,2-trichloroethane	0.364	0.309	0.325	0.321	0.338	0.321	0.324	0.314			0.327	5.29
87)	2-hexanone	0.218	0.173	0.215	0.210	0.222	0.214	0.194	0.197			0.206	7.95
88)	I chlorobenzene-d5	-----ISTD-----											
89)	tetrachloroethene	0.421	0.347	0.353	0.353	0.374	0.353	0.370	0.356	0.318		0.361	7.68
90)	1,3-dichloropropane	0.786	0.655	0.663	0.664	0.716	0.643	0.672	0.677	0.589	0.605	0.667	8.26
91)	butyl acetate	0.398	0.385	0.358	0.362	0.395	0.359	0.365	0.359			0.373	4.60
92)	3,3-DIMETHYL-1-BUTANOL	0.093	0.081	0.076	0.078	0.087	0.071	0.079	0.075	0.079	0.089	0.081	8.50
93)	dibromochloromethane	0.560	0.477	0.488	0.485	0.508	0.479	0.478	0.487			0.495	5.67
94)	1,2-dibromoethane	0.491	0.429	0.423	0.426	0.452	0.413	0.422	0.429	0.358		0.427	8.17
95)	chlorobenzene	1.352	1.125	1.127	1.122	1.190	1.116	1.163	1.149	1.093	1.169	1.161	6.30
96)	1,1,1,2-tetrachloroethane	0.545	0.438	0.465	0.462	0.484	0.460	0.473	0.466			0.474	6.65
97)	ethylbenzene	2.319	1.936	1.952	1.950	2.056	1.961	2.037	1.981	1.853	2.218	2.026	6.97
98)	m,p-xylene	0.865	0.718	0.754	0.737	0.776	0.766	0.757	0.743	0.688	0.790	0.759	6.22
99)	o-xylene	0.931	0.760	0.775	0.766	0.796	0.772	0.768	0.772	0.726	0.784	0.785	6.94
100)	styrene	1.443	1.211	1.301	1.273	1.332	1.306	1.260	1.258	1.189	1.267	1.284	5.47
101)	Butyl Acrylate											0.000#	-1.00
102)	bromoform	0.485	0.374	0.413	0.403	0.425	0.406	0.400	0.394	0.367		0.408	8.40
103)	I 1,4-dichlorobenzene-d	-----ISTD-----											
104)	isopropylbenzene	3.889	3.207	3.335	3.247	3.417	3.288	3.324	3.334	3.316	3.756	3.411	6.63
105)	4-bromofluorobenzene (s)	1.227	1.071	0.921	0.898	0.903	0.947	0.961	0.945			0.984	11.40
106)	cyclohexanone	0.066	0.070	0.074	0.077	0.068	0.076	0.049				0.069	13.83
107)	bromobenzene	1.066	0.856	0.936	0.897	0.945	0.945	0.900	0.915	0.846	0.897	0.920	6.68
108)	1,1,2,2-tetrachloroethane	1.569	1.165	1.148	1.121	1.244	1.091	1.165	1.187	1.221	1.276	1.219	11.08
109)	trans-1,4-dichloro-2-butene	0.382	0.304	0.332	0.327	0.362	0.321	0.309	0.338			0.334	7.90
110)	1,2,3-trichloropropane	0.349	0.284	0.275	0.264	0.295	0.271	0.270	0.275			0.285	9.68
111)	n-propylbenzene	4.602	3.761	3.904	3.773	4.004	3.850	3.918	3.824	3.839	4.314	3.979	6.81

Initial Calibration Summary

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Job Number: JB67898

Sample: V1C5716-ICC5716

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 1C128183.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

112)	2-chlorotoluene	0.978	0.805	0.862	0.813	0.871	0.859	0.826	0.827	0.811	0.850	6.31
113)	4-chlorotoluene	2.965	2.389	2.435	2.372	2.525	2.408	2.438	2.437	2.441	2.534	6.94
114)	1,3,5-trimethylbenzene	3.297	2.858	2.979	2.859	2.983	2.899	2.910	2.893	2.790	3.167	5.24
115)	tert-butylbenzene	2.941	2.404	2.501	2.471	2.593	2.440	2.531	2.463	2.446	2.457	6.16
116)	pentachloroethane	0.762	0.585	0.639	0.621	0.660	0.616	0.622	0.633	0.538	0.631	9.57
117)	1,2,4-trimethylbenzene	3.404	2.759	2.900	2.843	2.967	2.781	2.845	2.836	2.895	3.258	7.21
118)	sec-butylbenzene	4.511	3.780	3.886	3.821	4.043	3.714	3.899	3.829	3.746	4.235	6.37
119)	1,3-dichlorobenzene	2.229	1.770	1.799	1.751	1.848	1.725	1.817	1.804	1.820	2.019	8.21
120)	p-isopropyltoluene	3.681	3.118	3.321	3.264	3.421	3.122	3.260	3.268	3.184	3.397	5.06
121)	1,2,3-trimethylbenzene										0.000#	-1.00
122)	1,4-dichlorobenzene	2.320	1.871	1.829	1.784	1.911	1.766	1.839	1.854	2.126	1.922	9.50
123)	benzyl chloride	2.762	2.536	2.214	2.180	2.432	2.194	2.291	2.245	2.392	2.684	8.72
124)	1,2-dichlorobenzene	2.341	1.778	1.773	1.748	1.900	1.669	1.829	1.813	1.928	1.957	9.94
125)	n-butylbenzene	1.963	1.672	1.689	1.674	1.787	1.586	1.729	1.695	1.646	1.805	6.10
126)	1,2-dibromo-3-chloropropane	0.291	0.230	0.235	0.239	0.269	0.210	0.246	0.254		0.247	10.18
127)	1,3,5-trichlorobenzene	1.828	1.560	1.517	1.536	1.672	1.405	1.606	1.584	1.611	1.634	6.90
128)	1,2,4-trichlorobenzene	1.713	1.370	1.392	1.379	1.508	1.271	1.452	1.457	1.515	1.534	8.24
129)	hexachlorobutadiene	0.914	0.768	0.721	0.748	0.827	0.649	0.798	0.795	0.767	0.699	9.47
130)	naphthalene	4.810	3.677	3.528	3.582	4.016	3.142	3.683	3.863	4.178	3.831	12.34
131)	1,2,3-trichlorobenzene	1.703	1.304	1.294	1.309	1.449	1.154	1.382	1.413	1.420	1.538	10.77
132)	hexachloroethane	0.694	0.596	0.635	0.630	0.672	0.601	0.622	0.623	0.509	0.620	8.42

(#) = Out of Range ### Number of calibration levels exceeded format ###

M1C5716.M

Tue May 13 13:04:09 2014

RPT1

Initial Calibration Verification

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Job Number: JB67898

Sample: V1C5716-ICV5716

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 1C128188.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\1C128188.D

Vial: 16

Acq On : 12 May 2014 6:09 pm

Operator: mariceld

Sample : icv5716-50

Inst : MS1C

Misc : MS66796,V1C5716,5,,,,,1

Multiplr: 1.00

MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M1C5716.M (RTE Integrator)

Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM

Last Update : Tue May 13 12:33:26 2014

Response via : Multiple Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.50min

Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Tert Butyl Alcohol-d9	1.000	1.000	0.0	103	0.01	7.14
2	tertiary butyl alcohol	1.225	1.149	6.2	99	0.00	7.27
3	1,4-dioxane	0.096	0.091	5.2	95	0.00	11.35
4 I	pentafluorobenzene	1.000	1.000	0.0	106	0.00	9.63
5 m	Freon 115			-----NA-----			
6 m	Freon 143a			-----NA-----			
7 m	Freon 152a			-----NA-----			
8	chlorotrifluoroethene			-----NA-----			
9	chlorodifluoromethane	0.529	0.505	4.5	105	0.00	3.51
10	dichlorodifluoromethane	0.838	0.743	11.3	98	0.00	3.49
11 m	Freon 142b			-----NA-----			
12	chloromethane	1.106	1.008	8.9	99	0.00	3.80
13	vinyl chloride	0.973	0.929	4.5	100	0.00	4.06
14	bromomethane	0.594	0.561	5.6	100	0.00	4.71
15	chloroethane	0.415	0.395	4.8	102	0.00	4.90
16	PENTANE			-----NA-----			
17	1,3-BUTADIENE			-----NA-----			
18	vinyl bromide			-----NA-----			
19	trichlorofluoromethane	0.949	0.869	8.4	100	0.01	5.42
20	ethyl ether	0.327	0.334	-2.1	107	0.00	5.86
21	freon 123a			-----NA-----			
22	acrolein	0.167	0.159	4.8	102	0.00	6.14
23	1,1-dichloroethene	0.551	0.543	1.5	105	0.00	6.31
24	acetone	0.266	0.241	9.4	101	0.00	6.40
25	acetonitrile	0.080	0.073	8.8	107	0.01	6.90
26	allyl chloride	0.291	0.344	-18.2	124	0.00	6.91
27	iodomethane	1.098	1.059	3.6	103	0.00	6.61
28	carbon disulfide	2.096	1.987	5.2	106	0.00	6.73
29	2-CHLOROPROPANE	1.159	1.123	3.1	104	0.00	6.06
30	methylene chloride	0.645	0.605	6.2	102	0.00	7.13
31	methyl acetate	0.609	0.565	7.2	98	0.00	6.92
32	methyl tert butyl ether	1.922	1.773	7.8	100	0.00	7.50
33	trans-1,2-dichloroethene	0.562	0.552	1.8	104	0.00	7.54
34	1-CHLOROPROPANE	50.000	49.727	0.5	104	0.00	7.16
35	di-isopropyl ether	2.171	2.113	2.7	105	0.00	8.19
36	2-butanone	0.085	0.087	-2.4	104	0.01	9.02
37	1,1-dichloroethane	1.148	1.133	1.3	106	0.00	8.19

Initial Calibration Verification

Job Number: JB67898

Sample: V1C5716-ICV5716

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 1C128188.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

38	chloroprene	0.846	0.774	8.5	101	0.00	8.31
39	acrylonitrile	0.292	0.288	1.4	105	0.00	7.51
40	vinyl acetate	0.102	0.112	-9.8	111	0.00	8.21
41	ethyl tert-butyl ether	2.003	1.894	5.4	102	0.00	8.72
42	ethyl acetate	0.119	0.116	2.5	101	0.00	9.04
43	2,2-dichloropropane	0.898	0.828	7.8	103	0.00	9.01
44	cis-1,2-dichloroethene	0.623	0.614	1.4	104	0.00	9.03
45	propionitrile	0.120	0.121	-0.8	106	0.00	9.11
46	methylacrylate	0.840	0.844	-0.5	103	0.00	9.12
47	bromochloromethane	0.318	0.316	0.6	105	0.00	9.36
48	tetrahydrofuran	0.104	0.103	1.0	105	0.00	9.41
49	chloroform	0.664	0.650	2.1	105	0.00	9.44
50	T-BUTYL FORMATE	0.611	0.603	1.3	108	0.00	9.47
51	isobutyl alcohol	0.049	0.046	6.1	98	0.00	9.97
52 S	dibromofluoromethane (s)	0.587	0.546	7.0	105	0.00	9.66
53 S	1,2-dichloroethane-d4 (s)	0.681	0.626	8.1	103	0.00	10.10
54	freon 113	0.415	0.418	-0.7	108	0.00	6.29
55	methacrylonitrile	0.290	0.288	0.7	103	0.00	9.31
56	1,1,1-trichloroethane	0.885	0.844	4.6	102	0.00	9.69
57	Cyclohexane	0.923	0.824	10.7	98	0.00	9.76
58 I	1,4-difluorobenzene	1.000	1.000	0.0	108	0.00	10.59
59	ISO-OCTANE	1.621	1.347	16.9	94	0.00	10.18
60	epichlorohydrin	0.059	0.053	10.2	98	0.00	11.93
61	n-butyl alcohol	0.020	0.018	10.0	95	0.00	10.77
62	carbon tetrachloride	0.530	0.496	6.4	102	0.00	9.90
63	1,1-dichloropropene	0.519	0.490	5.6	102	0.00	9.89
64	hexane			-----NA-----			
65	benzene	1.579	1.496	5.3	106	0.00	10.17
66	tert-amyl methyl ether	1.301	1.172	9.9	98	0.00	10.22
67	heptane			-----NA-----			
68	isopropyl acetate	1.192	1.086	8.9	95	0.00	10.13
69	1,2-dichloroethane	0.518	0.502	3.1	104	0.00	10.19
70	trichloroethene	0.378	0.370	2.1	106	0.00	10.93
71	2-nitropropane	0.188	0.176	6.4	103	0.00	11.78
72	2-chloroethyl vinyl ether	0.276	0.287	-4.0	111	0.00	11.80
73	methyl methacrylate	0.110	0.105	4.5	102	0.00	11.25
74	1,2-dichloropropane	0.427	0.417	2.3	105	0.00	11.22
75	dibromomethane	0.257	0.250	2.7	104	0.00	11.38
76	methylcyclohexane	0.639	0.557	12.8	98	0.00	11.15
77	bromodichloromethane	0.533	0.516	3.2	104	0.00	11.54
78	ETHYL ACRYLATE			-----NA-----			
79	cis-1,3-dichloropropene	0.666	0.633	5.0	102	0.00	12.02
80 S	toluene-d8 (s)	1.401	1.264	9.8	103	0.00	12.32
81	4-methyl-2-pentanone	0.221	0.207	6.3	103	0.00	12.14
82	toluene	0.941	0.875	7.0	103	0.00	12.40
83	3-methyl-1-butanol	0.033	0.029	12.1	96	0.00	12.18
84	trans-1,3-dichloropropene	0.637	0.565	11.3	97	0.00	12.63
85	ethyl methacrylate	0.590	0.532	9.8	97	0.00	12.63
86	1,1,2-trichloroethane	0.327	0.302	7.6	102	0.00	12.85
87	2-hexanone	0.206	0.187	9.2	96	0.00	13.05
88 I	chlorobenzene-d5	1.000	1.000	0.0	104	0.00	13.94
89	tetrachloroethene	0.361	0.353	2.2	104	0.00	13.03
90	1,3-dichloropropane	0.667	0.643	3.6	101	0.00	13.05
91	butyl acetate			-----NA-----			
92	3,3-DIMETHYL-1-BUTANOL	0.081	0.074	8.6	99	0.00	13.25
93	dibromochloromethane	0.495	0.452	8.7	97	0.00	13.33
94	1,2-dibromoethane	0.427	0.408	4.4	100	0.00	13.48
95	chlorobenzene	1.161	1.104	4.9	102	0.00	13.98

Initial Calibration Verification

Page 3 of 3

Job Number: JB67898

Sample: V1C5716-ICV5716

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 1C128188.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

96	1,1,1,2-tetrachloroethane	0.474	0.444	6.3	100	0.00	14.05
97	ethylbenzene	2.026	1.888	6.8	101	0.00	14.04
98	m,p-xylene	0.759	0.723	4.7	102	0.00	14.16
99	o-xylene	0.785	0.736	6.2	100	0.00	14.60
100	styrene	1.284	1.224	4.7	100	0.00	14.62
101	Butyl Acrylate			-----NA-----			
102	bromoform	0.408	0.353	13.5	91	0.00	14.89
103 I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	102	0.00	16.42
104	isopropylbenzene	3.411	3.230	5.3	101	0.00	14.97
105 S	4-bromofluorobenzene (s)	0.984	0.885	10.1	100	0.00	15.19
106	cyclohexanone	0.069	0.038	44.9#	52	0.00	15.15
107	bromobenzene	0.920	0.891	3.2	101	0.00	15.38
108	1,1,2,2-tetrachloroethane	1.219	1.069	12.3	97	0.00	15.31
109	trans-1,4-dichloro-2-bute	0.334	0.301	9.9	94	0.00	15.35
110	1,2,3-trichloropropane	0.285	0.257	9.8	99	0.00	15.38
111	n-propylbenzene	3.979	3.942	0.9	106	0.00	15.41
112	2-chlorotoluene	0.850	0.810	4.7	102	0.00	15.56
113	4-chlorotoluene	2.494	2.331	6.5	100	0.00	15.66
114	1,3,5-trimethylbenzene	2.964	2.803	5.4	100	0.00	15.57
115	tert-butylbenzene	2.525	2.462	2.5	102	0.00	15.93
116	pentachloroethane	0.631	0.622	1.4	102	0.00	16.02
117	1,2,4-trimethylbenzene	2.949	2.881	2.3	103	0.00	15.98
118	sec-butylbenzene	3.946	3.756	4.8	100	0.00	16.16
119	1,3-dichlorobenzene	1.858	1.697	8.7	99	0.00	16.36
120	p-isopropyltoluene	3.304	3.223	2.5	101	0.00	16.29
121	1,2,3-trimethylbenzene			-----NA-----			
122	1,4-dichlorobenzene	1.922	1.744	9.3	100	0.00	16.45
123	benzyl chloride	2.393	2.220	7.2	104	0.00	16.57
124	1,2-dichlorobenzene	1.874	1.722	8.1	100	0.00	16.87
125	n-butylbenzene	1.725	1.700	1.4	104	0.00	16.72
126	1,2-dibromo-3-chloropropa	0.247	0.230	6.9	98	0.00	17.70
127	1,3,5-trichlorobenzene	1.595	1.567	1.8	104	0.00	17.89
128	1,2,4-trichlorobenzene	1.459	1.402	3.9	104	0.00	18.58
129	hexachlorobutadiene	0.769	0.761	1.0	104	0.00	18.70
130	naphthalene	3.831	3.573	6.7	102	0.00	18.87
131	1,2,3-trichlorobenzene	1.397	1.336	4.4	104	0.00	19.14
132	hexachloroethane	0.620	0.641	-3.4	104	0.00	17.14

(#) = Out of Range
1C128183.D M1C5716.M

SPCC's out = 0 CCC's out = 0
Tue May 13 13:10:47 2014 RPT1

6.7.2
6

Continuing Calibration Summary

Page 1 of 3

Job Number: JB67898

Sample: V1C5746-CC5716

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 1C128859.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\1C...c5745-5746\1C128859.D Vial: 28
 Acq On : 2 Jun 2014 10:53 pm Operator: mariceld
 Sample : cc5716-50 Inst : MS1C
 Misc : MS68178,V1C5746,5,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M1C5716.M (RTE Integrator)
 Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
 Last Update : Tue May 13 12:33:26 2014
 Response via : Multiple Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Tert Butyl Alcohol-d9	1.000	1.000	0.0	77	0.00	7.13
2	tertiary butyl alcohol	1.225	1.296	-5.8	84	0.00	7.26
3	1,4-dioxane	0.096	0.081	15.6	64	0.00	11.35
4 I	pentafluorobenzene	1.000	1.000	0.0	94	0.00	9.63
5 m	Freon 115			-----NA-----			
6 m	Freon 143a			-----NA-----			
7 m	Freon 152a			-----NA-----			
8	chlorotrifluoroethene			-----NA-----			
9	chlorodifluoromethane	0.529	0.662	-25.1#	121	-0.01	3.50
10	dichlorodifluoromethane	0.838	0.856	-2.1	99	0.00	3.48
11 m	Freon 142b			-----NA-----			
12	chloromethane	1.106	1.033	6.6	89	0.00	3.80
13	vinyl chloride	0.973	0.988	-1.5	94	0.00	4.06
14	bromomethane	0.594	0.624	-5.1	98	0.00	4.72
15	chloroethane	0.415	0.428	-3.1	97	0.00	4.90
16	PENTANE			-----NA-----			
17	1,3-BUTADIENE			-----NA-----			
18	vinyl bromide			-----NA-----			
19	trichlorofluoromethane	0.949	1.077	-13.5	109	0.01	5.42
20	ethyl ether	0.327	0.338	-3.4	95	0.00	5.86
21	freon 123a			-----NA-----			
22	acrolein	0.167	0.160	4.2	91	0.00	6.14
23	1,1-dichloroethene	0.551	0.607	-10.2	103	0.00	6.31
24	acetone	0.266	0.242	9.0	89	0.00	6.40
25	acetonitrile	0.080	0.065	18.8	85	0.00	6.89
26	allyl chloride	0.291	0.313	-7.6	100	0.00	6.91
27	iodomethane	1.098	1.209	-10.1	104	0.00	6.60
28	carbon disulfide	2.096	2.116	-1.0	100	0.00	6.72
29	2-CHLOROPROPANE	1.159	1.219	-5.2	100	0.00	6.06
30	methylene chloride	0.645	0.680	-5.4	101	0.00	7.12
31	methyl acetate	0.609	0.641	-5.3	97	0.00	6.91
32	methyl tert butyl ether	1.922	1.981	-3.1	98	0.00	7.49
33	trans-1,2-dichloroethene	0.562	0.625	-11.2	104	0.00	7.54
	----- True		Calc.	% Drift			
34	1-CHLOROPROPANE	50.000	54.265	-8.5	99	0.00	7.15
	----- AvgRF		CCRF	% Dev			
35	di-isopropyl ether	2.171	2.289	-5.4	100	0.00	8.19
36	2-butanone	0.085	0.089	-4.7	94	0.00	9.01
37	1,1-dichloroethane	1.148	1.232	-7.3	101	0.00	8.19

Continuing Calibration Summary

Job Number: JB67898

Account: LANGAN Langan Engineering & Environmental

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Sample: V1C5746-CC5716

Lab FileID: 1C128859.D

38	chloroprene	0.846	0.951	-12.4	109	0.00	8.31
39	acrylonitrile	0.292	0.298	-2.1	96	0.00	7.51
40	vinyl acetate	0.102	0.105	-2.9	91	0.00	8.21
41	ethyl tert-butyl ether	2.003	2.139	-6.8	101	0.00	8.72
42	ethyl acetate	0.119	0.126	-5.9	95	0.00	9.04
43	2,2-dichloropropane	0.898	0.940	-4.7	103	0.00	9.01
44	cis-1,2-dichloroethene	0.623	0.697	-11.9	104	0.00	9.03
45	propionitrile	0.120	0.123	-2.5	94	0.00	9.11
46	methylacrylate	0.840	0.860	-2.4	93	0.00	9.11
47	bromochloromethane	0.318	0.350	-10.1	102	0.00	9.36
48	tetrahydrofuran	0.104	0.104	0.0	94	0.00	9.41
49	chloroform	0.664	0.740	-11.4	105	0.00	9.44
50	T-BUTYL FORMATE	0.611	0.606	0.8	95	0.00	9.46
51	isobutyl alcohol	0.049	0.043	12.2	82	0.00	9.96
52 S	dibromofluoromethane (s)	0.587	0.597	-1.7	101	0.00	9.65
53 S	1,2-dichloroethane-d4 (s)	0.681	0.680	0.1	99	0.00	10.10
54	freon 113	0.415	0.516	-24.3#	117	0.00	6.29
55	methacrylonitrile	0.290	0.301	-3.8	95	0.00	9.31
56	1,1,1-trichloroethane	0.885	1.001	-13.1	107	0.00	9.69
57	Cyclohexane	0.923	0.962	-4.2	101	0.00	9.76
58 I	1,4-difluorobenzene	1.000	1.000	0.0	93	0.00	10.58
59	ISO-OCTANE	1.621	1.636	-0.9	97	0.00	10.18
60	epichlorohydrin	0.059	0.059	0.0	94	0.00	11.93
61	n-butyl alcohol	0.020	0.017	15.0	78	0.00	10.77
62	carbon tetrachloride	0.530	0.603	-13.8	106	0.00	9.90
63	1,1-dichloropropene	0.519	0.582	-12.1	104	0.00	9.89
64	hexane	0.454	0.517	-13.9	112	0.00	7.90
65	benzene	1.579	1.705	-8.0	104	0.00	10.16
66	tert-amyl methyl ether	1.301	1.352	-3.9	97	0.00	10.22
67	heptane	0.287	0.297	-3.5	99	0.00	10.37
68	isopropyl acetate	1.192	1.178	1.2	88	0.00	10.13
69	1,2-dichloroethane	0.518	0.582	-12.4	103	0.00	10.19
70	trichloroethene	0.378	0.436	-15.3	106	0.00	10.93
71	2-nitropropane	0.188	0.200	-6.4	101	0.00	11.77
72	2-chloroethyl vinyl ether	0.276	0.331	-19.9	110	0.00	11.80
73	methyl methacrylate	0.110	0.116	-5.5	96	0.00	11.25
74	1,2-dichloropropane	0.427	0.466	-9.1	100	0.00	11.21
75	dibromomethane	0.257	0.279	-8.6	99	0.00	11.38
76	methylcyclohexane	0.639	0.705	-10.3	106	0.00	11.15
77	bromodichloromethane	0.533	0.590	-10.7	102	0.00	11.53
78	ETHYL ACRYLATE			-----NA-----			
79	cis-1,3-dichloropropene	0.666	0.714	-7.2	98	0.00	12.02
80 S	toluene-d8 (s)	1.401	1.451	-3.6	101	0.00	12.32
81	4-methyl-2-pentanone	0.221	0.218	1.4	92	0.00	12.13
82	toluene	0.941	1.036	-10.1	104	0.00	12.40
83	3-methyl-1-butanol	0.033	0.030	9.1	84	0.00	12.18
84	trans-1,3-dichloropropene	0.637	0.659	-3.5	96	0.00	12.63
85	ethyl methacrylate	0.590	0.610	-3.4	95	0.00	12.63
86	1,1,2-trichloroethane	0.327	0.346	-5.8	100	0.00	12.85
87	2-hexanone	0.206	0.202	1.9	89	0.00	13.05
88 I	chlorobenzene-d5	1.000	1.000	0.0	94	0.00	13.94
89	tetrachloroethene	0.361	0.407	-12.7	109	0.00	13.02
90	1,3-dichloropropane	0.667	0.690	-3.4	98	0.00	13.05
91	butyl acetate	0.373	0.350	6.2	91	0.00	13.14
92	3,3-DIMETHYL-1-BUTANOL	0.081	0.073	9.9	88	0.00	13.25
93	dibromochloromethane	0.495	0.505	-2.0	98	0.00	13.32
94	1,2-dibromoethane	0.427	0.449	-5.2	99	0.00	13.48
95	chlorobenzene	1.161	1.240	-6.8	104	0.00	13.98

Continuing Calibration Summary

Page 3 of 3

Job Number: JB67898

Sample: V1C5746-CC5716

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 1C128859.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

96	1,1,1,2-tetrachloroethane	0.474	0.510	-7.6	104	0.00	14.05
97	ethylbenzene	2.026	2.170	-7.1	105	0.00	14.04
98	m,p-xylene	0.759	0.822	-8.3	105	0.00	14.16
99	o-xylene	0.785	0.837	-6.6	103	0.00	14.60
100	styrene	1.284	1.396	-8.7	104	0.00	14.62
101	Butyl Acrylate			-----NA-----			
102	bromoform	0.408	0.411	-0.7	96	0.00	14.89
103 I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	92	0.00	16.42
104	isopropylbenzene	3.411	3.741	-9.7	106	0.00	14.97
105 S	4-bromofluorobenzene (s)	0.984	0.980	0.4	100	0.00	15.19
106	cyclohexanone	0.069	0.032	53.6#	39#	0.00	15.15
107	bromobenzene	0.920	1.025	-11.4	105	0.00	15.39
108	1,1,2,2-tetrachloroethane	1.219	1.189	2.5	98	0.00	15.31
109	trans-1,4-dichloro-2-bute	0.334	0.278	16.8	78	0.00	15.35
110	1,2,3-trichloropropane	0.285	0.280	1.8	98	0.00	15.38
111	n-propylbenzene	3.979	4.292	-7.9	105	0.00	15.41
112	2-chlorotoluene	0.850	0.937	-10.2	106	0.00	15.56
113	4-chlorotoluene	2.494	2.661	-6.7	103	0.00	15.66
114	1,3,5-trimethylbenzene	2.964	3.235	-9.1	104	0.00	15.57
115	tert-butylbenzene	2.525	2.763	-9.4	103	0.00	15.93
116	pentachloroethane	0.631	0.728	-15.4	108	0.00	16.02
117	1,2,4-trimethylbenzene	2.949	3.202	-8.6	104	0.00	15.98
118	sec-butylbenzene	3.946	4.363	-10.6	105	0.00	16.16
119	1,3-dichlorobenzene	1.858	1.997	-7.5	105	0.00	16.36
120	p-isopropyltoluene	3.304	3.673	-11.2	103	0.00	16.29
121	1,2,3-trimethylbenzene			-----NA-----			
122	1,4-dichlorobenzene	1.922	2.038	-6.0	105	0.00	16.45
123	benzyl chloride	2.393	2.236	6.6	94	0.00	16.57
124	1,2-dichlorobenzene	1.874	2.017	-7.6	106	0.00	16.87
125	n-butylbenzene	1.725	1.877	-8.8	103	0.00	16.72
126	1,2-dibromo-3-chloropropa	0.247	0.246	0.4	95	0.00	17.70
127	1,3,5-trichlorobenzene	1.595	1.822	-14.2	109	0.00	17.89
128	1,2,4-trichlorobenzene	1.459	1.651	-13.2	110	0.00	18.58
129	hexachlorobutadiene	0.769	0.856	-11.3	105	0.00	18.70
130	naphthalene	3.831	3.937	-2.8	101	0.00	18.87
131	1,2,3-trichlorobenzene	1.397	1.518	-8.7	107	0.00	19.14
132	hexachloroethane	0.620	0.740	-19.4	108	0.00	17.14

(#) = Out of Range

1C128183.D M1C5716.M

SPCC's out = 0 CCC's out = 0

Tue Jun 03 16:06:10 2014 RPT1

Initial Calibration Summary

Page 1 of 5

Job Number: JB67898
Account: LANGAN Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY
Sample: V3V474-ICC474
Lab FileID: 3V11190.D

Response Factor Report MS3V

Method : C:\MSDCHEM\1\METHODS\M3V474.M (RTE Integrator)
 Title : SW-846 Method 8260
 Last Update : Thu May 29 12:53:16 2014
 Response via : Initial Calibration

Calibration Files

0.2 =3V11183.D 0.5 =3V11184.D 5 =3V11187.D 50 =3V11190.D
 100 =3V11191.D 1 =3V11185.D 200 =3V11192.D 20 =3V11189.D
 2 =3V11186.D 10 =3V11188.D = =

Compound	0.2	0.5	5	50	100	1	200	20	2	10	Avg	%RSD
1) I Tert Butyl Alcohol-d9 -----ISTD-----												
2) 1,4-dioxane												
		0.115	0.133	0.139			0.129	0.122		0.126	0.127	6.64
3) Ethanol											0.000	-1.00
4) tertiary butyl alcohol												
		1.343	1.353	1.375			1.277	1.341	1.309	1.376	1.339	2.66
5) I pentafluorobenzene -----ISTD-----												
6) chlorodifluoromethane												
		1.661	0.985	0.940			0.881	1.044		1.253	1.127	25.80
----- Linear regression ----- Coefficient =										0.9994		
Response Ratio = 0.09280 + 0.86592 *A												
7) dichlorodifluoromethane												
		1.304	1.383	1.367			1.333	1.380	1.133	1.398	1.328	6.92
8) chloromethane												
		1.023	1.169	1.244			1.315	1.150	0.993	1.109	1.143	10.01
9) vinyl chloride												
		1.129	1.282	1.331			1.389	1.251	0.994	1.239	1.231	10.74
10) bromomethane												
		0.809	0.790	0.769			0.707	0.811	0.749	0.833	0.781	5.49
11) chloroethane												
		0.407	0.417	0.421			0.376	0.437	0.340	0.445	0.406	9.08
12) trichlorofluoromethane												
		1.304	1.385	1.422			1.417	1.414	1.116	1.426	1.355	8.39
13) ethyl ether												
		0.246	0.254	0.264			0.269	0.279	0.196	0.250	0.251	10.71
14) 2-chloropropane												
		0.944	0.973	0.963			0.952	1.014		0.980	0.971	2.56
15) acrolein												
		0.125	0.091		0.086			0.108	0.094	0.098	0.101	14.01
16) 1,1-dichloroethene												
		0.741	0.668	0.670	0.665	0.623	0.656	0.716	0.663	0.690	0.677	5.10
17) acetone												
		0.203	0.152	0.153			0.165	0.217		0.173	0.177	15.20
18) allyl chloride												
		0.297	0.307	0.307			0.302	0.335		0.309	0.309	4.24
19) acetonitrile												
		0.046	0.042	0.042			0.039	0.048		0.045	0.044	7.16
20) iodomethane												
		1.410	1.477	1.485	1.157	1.496	1.549	1.287	1.450	1.414		9.15
21) iso-butyl alcohol												
		0.019	0.018	0.018			0.018	0.022		0.019	0.019	8.39

Initial Calibration Summary

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Job Number: JB67898

Sample: V3V474-ICC474

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 3V11190.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

22)	carbon disulfide	2.381	2.519	2.626	2.606	2.086	2.573	2.751	2.312	2.626	2.498	8.16
23)	methylene chloride	0.827	0.734	0.740			0.745	0.794	0.940	0.785	0.795	9.11
24)	1-chloropropane	1.415	0.938	0.925			0.893	1.130		1.190	1.082	18.76
25)	methyl acetate	0.064	0.071	0.074			0.069	0.079		0.067	0.071	7.46
26)	methyl tert butyl ether	1.442	1.652	1.708	1.736	1.318	1.757	1.855	1.506	1.678	1.628	10.54
27)	trans-1,2-dichloroethene	0.817	0.715	0.697	0.693	0.693	0.683	0.743	0.692	0.715	0.716	5.83
28)	di-isopropyl ether	1.584	1.774	1.808	1.850	1.401	1.828	1.787	1.548	1.816	1.711	9.28
29)	ethyl tert-butyl ether	1.437	1.733	1.850	1.927	1.426	1.922	1.819	1.519	1.809	1.716	11.76
30)	2-butanone	0.042	0.055	0.059			0.061	0.066		0.051	0.056	15.43
31)	1,1-dichloroethane	0.925	1.162	1.154	1.163	0.866	1.158	1.238	1.016	1.191	1.097	11.77
32)	chloroprene	0.727	0.781	0.808	0.526		0.771	0.769	0.648	0.760	0.724	12.88
33)	acrylonitrile	0.160	0.161	0.162			0.157	0.189	0.139	0.160	0.161	9.00
34)	vinyl acetate	0.049	0.066	0.071			0.068	0.067		0.054	0.062	13.90
35)	ethyl acetate	0.051	0.053	0.056			0.052	0.061		0.056	0.055	6.65
36)	2,2-dichloropropane	0.982	1.141	1.178	1.158	0.903	1.155	1.218	1.076	1.176	1.110	9.34
37)	cis-1,2-dichloroethene	1.098	0.783	0.751	0.752	0.843	0.762	0.807	0.820	0.734	0.817	13.65
38)	propionitrile	0.072	0.069	0.069			0.067	0.082		0.069	0.071	7.45
39)	methyl acrylate	0.454	0.451	0.465			0.457	0.524		0.443	0.466	6.36
40)	bromochloromethane	0.344	0.352	0.364	0.240		0.366	0.380	0.307	0.342	0.337	13.28
41)	tetrahydrofuran	0.140	0.145	0.146			0.139	0.171		0.151	0.149	7.78
42)	chloroform	1.347	1.186	1.179	1.179	1.084	1.201	1.241	1.111	1.194	1.191	6.32
43)	dibromofluoromethane (s)	0.805	0.585	0.620	0.624	0.595	0.644	0.628	0.570	0.622	0.633	10.87
44)	1,2-dichloroethane-d4 (s)	0.697	0.510	0.541	0.542	0.509	0.550	0.564	0.524	0.550	0.554	10.23
45)	freon 113	0.614	0.623	0.637			0.588	0.617	0.504	0.645	0.604	7.90
46)	methacrylonitrile	0.228	0.227	0.232			0.229	0.259	0.221	0.221	0.231	5.57
47)	1,1,1-trichloroethane	1.002	1.112	1.182	1.173	0.911	1.164	1.218	1.039	1.180	1.109	9.29
48)	tert-amyl methyl ether	1.709	1.729	1.781	1.880	1.395	1.884	1.793	1.493	1.763	1.714	9.69
49)	I 1,4-difluorobenzene	-----ISTD-----										
50)	epichlorohydrin	0.028	0.027	0.028			0.027	0.030		0.027	0.028	3.66
51)	n-butyl alcohol	0.011	0.011	0.012			0.011	0.013	0.009	0.011	0.011	9.92

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Initial Calibration Summary

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Job Number: JB67898

Sample: V3V474-ICC474

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 3V11190.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

52)	cyclohexane	0.677	0.695	0.694	0.496	0.679	0.715	0.562	0.698	0.652	12.07		
53)	carbon tetrachloride	0.566	0.680	0.721	0.710	0.529	0.694	0.724	0.612	0.711	0.661	11.04	
54)	1,1-dichloropropene	0.465	0.521	0.554	0.552	0.432	0.550	0.565	0.478	0.554	0.519	9.34	
55)	hexane	0.428	0.427	0.441	0.367	0.406	0.428	0.364	0.443	0.413	7.60		
56)	ISOOCANE	1.372	1.585	1.687		1.654	1.444	1.113	1.449	1.472	13.37		
57)	benzene	1.518	1.530	1.596	1.610	1.608	1.376	1.616	1.654	1.466	1.609	1.558	5.50
58)	heptane	0.266	0.271	0.276	0.175	0.257	0.278	0.222	0.271	0.252	14.28		
59)	isopropyl acetate	0.736	0.749	0.764		0.720	0.773	0.667	0.740	0.736	4.77		
60)	1,2-dichloroethane	0.403	0.457	0.461	0.465	0.352	0.464	0.485	0.395	0.451	0.437	10.01	
61)	trichloroethene	0.376	0.417	0.433	0.431	0.335	0.431	0.444	0.364	0.429	0.407	9.44	
62)	ethyl acrylate									0.000	-1.00		
63)	2-nitropropane	0.515	0.522	0.532		0.510	0.543		0.499	0.520	2.99		
64)	2-chloroethyl vinyl ether	0.126	0.150	0.156	0.160	0.107	0.154	0.159	0.125	0.148	0.143	13.00	
65)	methyl methacrylate	0.271	0.272	0.274	0.222	0.256	0.266	0.232	0.273	0.258	7.85		
66)	1,2-dichloropropane	0.344	0.387	0.397	0.393	0.305	0.403	0.411	0.347	0.385	0.375	9.37	
67)	methylcyclohexane	0.672	0.733	0.749	0.507	0.707	0.692	0.596	0.713	0.671	12.07		
68)	dibromomethane	0.243	0.250	0.252	0.171	0.251	0.263	0.213	0.242	0.236	12.57		
69)	bromodichloromethane	0.459	0.501	0.537	0.541	0.395	0.554	0.544	0.440	0.514	0.498	11.08	
70)	cis-1,3-dichloropropene	0.481	0.554	0.601	0.602	0.436	0.626	0.610	0.503	0.573	0.554	11.97	
71)	toluene-d8 (s)	1.467	1.153	1.270	1.248	1.099	1.274	1.249	1.117	1.268	1.238	8.89	
72)	4-methyl-2-pentanone	0.110	0.117	0.119		0.116	0.133	0.101	0.111	0.115	8.59		
73)	toluene	1.038	0.943	0.873	0.922	0.911	0.786	0.930	0.939	0.845	0.909	0.910	7.32
74)	3-methyl-1-butanol	0.009	0.010	0.011		0.010	0.011	0.008	0.009	0.010	11.34		
75)	trans-1,3-dichloropropene	0.382	0.491	0.514	0.512	0.365	0.528	0.536	0.432	0.481	0.471	13.46	
76)	ethyl methacrylate	0.333	0.362	0.371		0.377	0.388	0.293	0.334	0.351	9.38		
77)	1,1,2-trichloroethane	0.206	0.271	0.271	0.267	0.206	0.277	0.282	0.247	0.265	0.255	11.51	
78)	2-hexanone	0.098	0.102	0.103		0.109	0.121		0.097	0.105	8.44		
79)	I chlorobenzene-d5	-----ISTD-----											
80)	tetrachloroethene	0.398	0.472	0.489	0.501	0.375	0.490	0.514	0.453	0.484	0.464	10.20	
81)	1,3-dichloropropane	0.392	0.488	0.498	0.495	0.365	0.505	0.536	0.458	0.490	0.470	11.93	

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Initial Calibration Summary

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Job Number: JB67898
Account: LANGAN Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Sample: V3V474-ICC474
Lab FileID: 3V11190.D

82)	butyl acetate	0.189	0.196	0.196	0.181	0.229	0.171	0.193	0.194	9.22
83)	dibromochloromethane	0.420	0.458	0.474	0.303	0.480	0.473	0.407	0.423	13.57
84)	1,2-dibromoethane	0.284	0.343	0.359	0.363	0.268	0.364	0.389	0.306	12.11
85)	n-Butyl ether								0.000	-1.00
86)	chlorobenzene	1.046	1.027	1.150	1.192	1.191	0.975	1.192	1.242	7.89
87)	1,1,1,2-tetrachloroethane	0.370	0.457	0.505	0.518	0.361	0.531	0.508	0.431	13.62
88)	ethylbenzene	2.148	1.864	1.937	2.042	2.010	1.671	2.031	2.106	7.25
89)	m,p-xylene	0.979	0.723	0.740	0.794	0.778	0.639	0.770	0.817	11.87
90)	o-xylene	0.711	0.598	0.754	0.829	0.825	0.610	0.832	0.838	12.08
91)	styrene	1.008	0.962	1.141	1.286	1.279	0.895	1.277	1.313	13.46
92)	bromoform	0.285	0.321	0.334	0.344	0.239	0.344	0.356	0.293	11.80
93)	I 1,4-dichlorobenzene-d	-----ISTD-----								
94)	isopropylbenzene	2.885	2.986	3.432	3.461	2.546	3.620	3.458	2.888	11.31
95)	4-bromofluorobenzene (s)	0.827	0.860	0.839	1.005	0.871	0.875	0.867	0.870	6.23
96)	bromobenzene	0.745	0.892	0.907	0.906	0.748	0.931	0.936	0.899	8.37
97)	cyclohexanone	0.113	0.106	0.117		0.135	0.161		0.105	17.50
98)	1,1,2,2-tetrachloroethane	0.764	0.822	0.844	0.842	0.613	0.873	0.926	0.854	10.81
99)	trans-1,4-dichloro-2-butene	0.168	0.180	0.183		0.190	0.199		0.174	6.18
100)	1,2,3-trichloropropane	0.185	0.181	0.178	0.123	0.179	0.201	0.184	0.177	12.98
101)	n-propylbenzene	3.580	3.811	4.087	4.004	3.063	4.061	4.125	3.583	9.14
102)	2-chlorotoluene	0.669	0.853	0.895	0.884	0.635	0.899	0.907	0.771	12.64
103)	4-chlorotoluene	2.274	2.372	2.442	2.431	2.039	2.498	2.523	2.256	6.39
104)	1,3,5-trimethylbenzene	2.304	2.695	3.009	3.061	2.154	3.208	2.989	2.438	13.45
105)	tert-butylbenzene	2.024	2.374	2.481		2.595	2.321	1.848	2.137	11.71
106)	pentachloroethane	0.517	0.622	0.647		0.692	0.602	0.489	0.542	12.58
107)	1,2,4-trimethylbenzene	2.914	2.840	3.028	3.043	2.459	3.140	3.079	2.652	7.59
108)	sec-butylbenzene	3.592	4.089	4.189	2.734	4.314	4.060	3.268	3.823	14.28
109)	1,3-dichlorobenzene	1.870	1.877	1.891	1.892	1.554	1.911	1.957	1.794	6.37
110)	p-isopropyltoluene	2.522	3.105	3.463	3.475	2.380	3.558	3.446	2.797	14.22
111)	1,4-dichlorobenzene	1.882	1.866	1.893	1.904	1.666	1.897	1.959	1.829	4.38

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Initial Calibration Summary

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Job Number: JB67898

Sample: V3V474-ICC474

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 3V11190.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

112)	1,2-dichlorobenzene	1.722	1.864	1.850	1.886	1.592	1.930	1.937	1.779	1.848	1.823	6.04
113)	n-butylbenzene	1.575	1.791	1.897	1.919	1.393	1.899	1.972	1.685	1.854	1.776	10.74
114)	1,2-dibromo-3-chloropropane	0.190	0.172	0.175			0.176	0.193	0.201	0.173	0.183	6.30
115)	1,3,5-TRICHLOROBENZENE	1.792	1.792	1.909	1.924	1.556	1.907	1.933	1.753	1.854	1.824	6.59
116)	1,2,4-trichlorobenzene	1.763	1.662	1.786	1.800	1.398	1.763	1.795	1.696	1.712	1.708	7.36
117)	hexachlorobutadiene	0.739	0.890	0.960	0.986	0.723	0.975	0.951	0.853	0.927	0.890	11.12
118)	naphthalene	3.814	3.277	3.447	3.536	2.872	3.393	3.675	3.354	3.275	3.405	7.91
119)	1,2,3-trichlorobenzene	1.615	1.544	1.679	1.681	1.351	1.633	1.703	1.558	1.611	1.597	6.70
120)	hexachloroethane	0.605	0.701	0.755	0.564	0.833	0.663	0.630	0.623	0.672		13.08
121)	Benzyl chloride	1.626	1.648	1.709	1.387	1.692	1.708	1.533	1.620	1.615		6.76

(#) = Out of Range ### Number of calibration levels exceeded format ###

M3V474.M

Thu May 29 13:09:38 2014

GCMS3V

Initial Calibration Verification

Job Number: JB67898

Sample: V3V474-ICV474

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 3V11195.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\3V11195.D

Vial: 14

Acq On : 22 May 2014 3:41 pm

Operator: thienn

Sample : icv474-50

Inst : MS3V

Misc : MS65178,V3V474,5,,,,,1

Multiplr: 1.00

MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M3V474.M (RTE Integrator)

Title : SW-846 Method 8260

Last Update : Thu May 29 12:53:16 2014

Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min

Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Tert Butyl Alcohol-d9	1.000	1.000	0.0	105	-0.01	7.30
2	1,4-dioxane	0.127	0.140	-10.2	111	0.00	11.51
3	Ethanol	-----NA-----					
4 M	tertiary butyl alcohol	1.339	1.384	-3.4	108	-0.02	7.44
5 I	pentafluorobenzene	1.000	1.000	0.0	108	0.00	9.79
	----- True	Calc.	% Drift	-----			
6	chlorodifluoromethane	50.000	39.671	20.7	85	0.00	3.55
	----- AvgRF	CCRF	% Dev	-----			
7	dichlorodifluoromethane	1.328	1.382	-4.1	108	0.00	3.54
8	chloromethane	1.143	1.190	-4.1	110	0.02	3.87
9	vinyl chloride	1.231	1.303	-5.8	110	0.00	4.13
10	bromomethane	0.781	0.767	1.8	105	0.01	4.82
11	chloroethane	0.406	0.419	-3.2	108	0.00	4.99
12	trichlorofluoromethane	1.355	1.417	-4.6	110	0.00	5.51
13	ethyl ether	0.251	0.257	-2.4	109	0.00	5.96
14	2-chloropropane	0.971	0.933	3.9	103	0.01	6.19
15	acrolein	0.101	0.097	4.0	115	0.00	6.29
16	1,1-dichloroethene	0.677	0.644	4.9	104	0.00	6.44
17	acetone	0.177	0.127	28.2	90	0.00	6.55
18	allyl chloride	0.309	0.338	-9.4	119	0.00	7.05
19	acetonitrile	0.044	0.043	2.3	110	0.00	7.06
20	iodomethane	1.414	1.398	1.1	102	0.00	6.75
21	iso-butyl alcohol	0.019	0.019	0.0	113	0.00	10.15
22	carbon disulfide	2.498	2.538	-1.6	104	0.00	6.86
23	methylene chloride	0.795	0.718	9.7	105	0.00	7.29
24	1-chloropropane	1.082	0.911	15.8	105	0.00	7.30
25	methyl acetate	0.071	0.063	11.3	96	0.00	7.05
26	methyl tert butyl ether	1.628	1.645	-1.7	104	0.00	7.64
27	trans-1,2-dichloroethene	0.716	0.658	8.1	102	0.00	7.70
28	di-isopropyl ether	1.711	1.795	-4.9	107	0.00	8.34
29	ethyl tert-butyl ether	1.716	1.802	-5.0	105	0.00	8.86
30	2-butanone	0.056	0.052	7.1	102	0.01	9.19
31 M	1,1-dichloroethane	1.097	1.143	-4.2	107	0.00	8.36
32	chloroprene	0.724	0.682	5.8	94	0.00	8.48
33	acrylonitrile	0.161	0.158	1.9	106	0.00	7.70
34	vinyl acetate	0.062	0.069	-11.3	114	0.00	8.37
35	ethyl acetate	0.055	0.053	3.6	107	0.00	9.20
36	2,2-dichloropropane	1.110	1.141	-2.8	104	0.00	9.19
37	cis-1,2-dichloroethene	0.817	0.720	11.9	103	0.00	9.20

Initial Calibration Verification

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Job Number: JB67898

Sample: V3V474-ICV474

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 3V11195.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

38	propionitrile	0.071	0.067	5.6	105	0.00	9.32
39	methyl acrylate	0.466	0.440	5.6	105	0.00	9.29
40	bromochloromethane	0.337	0.339	-0.6	104	0.00	9.54
41	tetrahydrofuran	0.149	0.140	6.0	104	0.00	9.58
42	chloroform	1.191	1.156	2.9	106	0.00	9.61
43 S	dibromofluoromethane (s)	0.633	0.589	7.0	102	0.00	9.83
44 S	1,2-dichloroethane-d4 (s)	0.554	0.513	7.4	102	0.00	10.28
45	freon 113	0.604	0.594	1.7	103	0.00	6.41
46	methacrylonitrile	0.231	0.217	6.1	103	0.00	9.50
47	1,1,1-trichloroethane	1.109	1.144	-3.2	104	0.00	9.85
48	tert-amyl methyl ether	1.714	1.742	-1.6	105	0.00	10.37
49 I	1,4-difluorobenzene	1.000	1.000	0.0	108	0.00	10.75
50	epichlorohydrin	0.028	0.026	7.1	103	0.00	12.07
51	n-butyl alcohol	0.011	0.012	-9.1	109	0.00	10.93
52 M	cyclohexane	0.652	0.659	-1.1	103	0.00	9.91
53	carbon tetrachloride	0.661	0.684	-3.5	103	0.00	10.06
54	1,1-dichloropropene	0.519	0.509	1.9	99	0.00	10.05
55	hexane	0.413	0.547	-32.4#	139	0.00	8.03
56	ISOCTANE	1.472	1.405	4.6	96	0.00	10.32
57 M	benzene	1.558	1.565	-0.4	105	0.00	10.33
58	heptane	0.252	0.324	-28.6	129	0.00	10.51
59	isopropyl acetate	0.736	0.761	-3.4	110	0.00	10.29
60	1,2-dichloroethane	0.437	0.442	-1.1	104	0.00	10.37
61	trichloroethene	0.407	0.415	-2.0	104	0.00	11.09
62	ethyl acrylate			-----NA-----			
63	2-nitropropane	0.520	0.567	-9.0	118	0.00	11.94
64	2-chloroethyl vinyl ether	0.143	0.173	-21.0	120	0.00	11.94
65	methyl methacrylate	0.258	0.350	-35.7#	140	0.00	11.28
66	1,2-dichloropropane	0.375	0.389	-3.7	106	0.00	11.37
67	methylcyclohexane	0.671	0.681	-1.5	101	0.00	11.29
68	dibromomethane	0.236	0.240	-1.7	104	0.00	11.54
69	bromodichloromethane	0.498	0.524	-5.2	106	0.00	11.68
70	cis-1,3-dichloropropene	0.554	0.573	-3.4	103	0.00	12.15
71 S	toluene-d8 (s)	1.238	1.196	3.4	102	0.00	12.42
72	4-methyl-2-pentanone	0.115	0.114	0.9	106	0.00	12.25
73	toluene	0.910	0.891	2.1	105	0.00	12.49
74	3-methyl-1-butanol	0.010	0.010	0.0	105	0.00	12.30
75	trans-1,3-dichloropropene	0.471	0.476	-1.1	100	0.00	12.72
76	ethyl methacrylate	0.351	0.345	1.7	103	0.00	12.71
77	1,1,2-trichloroethane	0.255	0.258	-1.2	103	0.00	12.94
78	2-hexanone	0.105	0.099	5.7	104	0.00	13.12
79 I	chlorobenzene-d5	1.000	1.000	0.0	109	0.00	13.97
80	tetrachloroethene	0.464	0.471	-1.5	105	0.00	13.08
81	1,3-dichloropropane	0.470	0.474	-0.9	104	0.00	13.12
82	butyl acetate	0.194	0.190	2.1	106	0.00	13.19
83	dibromochloromethane	0.430	0.431	-0.2	102	0.00	13.39
84	1,2-dibromoethane	0.336	0.337	-0.3	102	0.00	13.53
85	n-Butyl ether			-----NA-----			
86	chlorobenzene	1.127	1.144	-1.5	105	0.00	14.00
87	1,1,1,2-tetrachloroethane	0.462	0.477	-3.2	103	0.00	14.07
88	ethylbenzene	1.964	1.933	1.6	103	0.00	14.05
89	m,p-xylene	0.770	0.753	2.2	103	0.00	14.16
90	o-xylene	0.748	0.794	-6.1	104	0.00	14.60
91	styrene	1.141	1.230	-7.8	104	0.00	14.61
92	bromoform	0.314	0.312	0.6	102	0.00	14.90
93 I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	109	0.00	16.32
94	isopropylbenzene	3.160	3.254	-3.0	103	0.00	14.94

Initial Calibration Verification

Page 3 of 3

Job Number: JB67898

Sample: V3V474-ICV474

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 3V11195.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

95	S	4-bromofluorobenzene (s)	0.877	0.809	7.8	103	0.00	15.17
96		bromobenzene	0.872	0.863	1.0	104	0.00	15.36
97		cyclohexanone	0.123	0.045	63.4#	46#	0.00	15.14
98		1,1,2,2-tetrachloroethane	0.816	0.766	6.1	99	0.00	15.29
99		trans-1,4-dichloro-2-bute	0.182	0.169	7.1	102	0.00	15.33
100		1,2,3-trichloropropane	0.176	0.165	6.2	99	0.00	15.36
101		n-propylbenzene	3.811	4.076	-7.0	109	0.00	15.36
102		2-chlorotoluene	0.819	0.837	-2.2	102	0.00	15.52
103		4-chlorotoluene	2.362	2.336	1.1	104	0.00	15.62
104		1,3,5-trimethylbenzene	2.740	2.849	-4.0	103	0.00	15.52
105		tert-butylbenzene	2.254	2.273	-0.8	104	0.00	15.86
106		pentachloroethane	0.587	0.598	-1.9	105	0.00	15.96
107		1,2,4-trimethylbenzene	2.898	3.057	-5.5	110	0.00	15.91
108		sec-butylbenzene	3.759	3.879	-3.2	103	0.00	16.07
109		1,3-dichlorobenzene	1.846	1.793	2.9	103	0.00	16.27
110		p-isopropyltoluene	3.109	3.289	-5.8	104	0.00	16.19
111		1,4-dichlorobenzene	1.863	1.794	3.7	103	0.00	16.35
112		1,2-dichlorobenzene	1.823	1.777	2.5	105	0.00	16.73
113		n-butylbenzene	1.776	1.874	-5.5	108	0.00	16.60
114		1,2-dibromo-3-chloropropa	0.183	0.163	10.9	103	0.00	17.48
115		1,3,5-TRICHLOROBENZENE	1.824	1.870	-2.5	107	0.00	17.63
116		1,2,4-trichlorobenzene	1.708	1.743	-2.0	106	0.00	18.21
117		hexachlorobutadiene	0.890	0.908	-2.0	103	0.00	18.30
118		naphthalene	3.405	3.278	3.7	104	0.00	18.47
119		1,2,3-trichlorobenzene	1.597	1.624	-1.7	105	0.00	18.69
120		hexachloroethane	0.672	0.675	-0.4	105	0.00	16.97
121		Benzyl chloride	1.615	1.697	-5.1	112	0.00	16.47

(#) = Out of Range
3V11190.D M3V474.M

SPCC's out = 0 CCC's out = 0
Thu May 29 13:08:48 2014 GCMS3V

6.7.5
6

Continuing Calibration Summary

Page 1 of 3

Job Number: JB67898

Sample: V3V478-CC474

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 3V11270.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\3V11270.D

Vial: 2

Acq On : 29 May 2014 9:19 am

Operator: thienn

Sample : cc474-20

Inst : MS3V

Misc : MS68177,V3V478,5,,,,,1

Multiplr: 1.00

MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M3V474.M (RTE Integrator)

Title : SW-846 Method 8260

Last Update : Thu May 29 12:53:16 2014

Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min

Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Tert Butyl Alcohol-d9	1.000	1.000	0.0	92	0.00	7.30
2	1,4-dioxane	0.127	0.136	-7.1	103	0.00	11.51
3	Ethanol	-----NA-----					
4 M	tertiary butyl alcohol	1.339	1.469	-9.7	101	-0.03	7.43
5 I	pentafluorobenzene	1.000	1.000	0.0	110	0.00	9.78
	----- True	Calc.	% Drift	-----			
6	chlorodifluoromethane	20.000	17.840	10.8	106	0.00	3.55
	----- AvgRF	CCRF	% Dev	-----			
7	dichlorodifluoromethane	1.328	1.450	-9.2	116	0.00	3.54
8	chloromethane	1.143	1.214	-6.2	116	0.01	3.86
9	vinyl chloride	1.231	1.300	-5.6	114	0.00	4.13
10	bromomethane	0.781	0.837	-7.2	114	0.00	4.80
11	chloroethane	0.406	0.451	-11.1	114	0.01	5.00
12	trichlorofluoromethane	1.355	1.448	-6.9	113	-0.01	5.50
13	ethyl ether	0.251	0.280	-11.6	110	0.00	5.96
14	2-chloropropane	0.971	1.107	-14.0	120	0.00	6.18
15	acrolein	0.101	0.083	17.8	85	0.00	6.29
16	1,1-dichloroethene	0.677	0.736	-8.7	113	0.00	6.43
17	acetone	0.177	0.194	-9.6	99	0.00	6.55
18	allyl chloride	0.309	0.334	-8.1	110	0.00	7.05
19	acetonitrile	0.044	0.047	-6.8	109	0.00	7.06
20	iodomethane	1.414	1.589	-12.4	113	0.00	6.74
21	iso-butyl alcohol	0.019	0.021	-10.5	106	-0.01	10.14
22	carbon disulfide	2.498	2.940	-17.7	118	0.00	6.86
23	methylene chloride	0.795	0.849	-6.8	118	0.00	7.28
24	1-chloropropane	1.082	1.184	-9.4	115	0.00	7.31
25	methyl acetate	0.071	0.077	-8.5	107	0.00	7.05
26	methyl tert butyl ether	1.628	1.865	-14.6	111	0.00	7.64
27	trans-1,2-dichloroethene	0.716	0.755	-5.4	112	0.00	7.70
28	di-isopropyl ether	1.711	1.912	-11.7	118	0.00	8.33
29	ethyl tert-butyl ether	1.716	1.925	-12.2	117	0.00	8.86
30	2-butanone	0.056	0.064	-14.3	106	0.00	9.18
31 M	1,1-dichloroethane	1.097	1.300	-18.5	116	0.00	8.36
32	chloroprene	0.724	0.816	-12.7	117	0.00	8.47
33	acrylonitrile	0.161	0.183	-13.7	107	0.00	7.70
34	vinyl acetate	0.062	0.067	-8.1	111	0.00	8.36
35	ethyl acetate	0.055	0.058	-5.5	104	0.00	9.20
36	2,2-dichloropropane	1.110	1.298	-16.9	117	-0.01	9.18
37	cis-1,2-dichloroethene	0.817	0.797	2.4	109	0.00	9.20

Continuing Calibration Summary

Page 2 of 3

Job Number: JB67898

Sample: V3V478-CC474

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 3V11270.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

38	propionitrile	0.071	0.078	-9.9	105	-0.01	9.31
39	methyl acrylate	0.466	0.500	-7.3	105	0.00	9.28
40	bromochloromethane	0.337	0.381	-13.1	110	0.00	9.54
41	tetrahydrofuran	0.149	0.168	-12.8	109	0.00	9.57
42	chloroform	1.191	1.285	-7.9	114	0.00	9.61
43 S	dibromofluoromethane (s)	0.633	0.682	-7.7	119	0.00	9.83
44 S	1,2-dichloroethane-d4 (s)	0.554	0.576	-4.0	112	0.00	10.28
45	freon 113	0.604	0.646	-7.0	115	0.01	6.41
46	methacrylonitrile	0.231	0.249	-7.8	106	0.00	9.50
47	1,1,1-trichloroethane	1.109	1.257	-13.3	114	0.00	9.85
48	tert-amyl methyl ether	1.714	1.880	-9.7	115	0.00	10.37
49 I	1,4-difluorobenzene	1.000	1.000	0.0	105	0.00	10.75
50	epichlorohydrin	0.028	0.029	-3.6	104	0.00	12.07
51	n-butyl alcohol	0.011	0.013	-18.2	102	0.00	10.93
52 M	cyclohexane	0.652	0.795	-21.9#	117	0.00	9.91
53	carbon tetrachloride	0.661	0.794	-20.1#	115	0.00	10.06
54	1,1-dichloropropene	0.519	0.606	-16.8	113	0.00	10.04
55	hexane	0.413	0.480	-16.2	118	0.00	8.02
56	ISOCTANE	1.472	1.627	-10.5	119	0.00	10.30
57 M	benzene	1.558	1.785	-14.6	114	0.00	10.33
58	heptane	0.252	0.304	-20.6#	115	0.00	10.51
59	isopropyl acetate	0.736	0.796	-8.2	108	0.00	10.29
60	1,2-dichloroethane	0.437	0.507	-16.0	110	0.00	10.37
61	trichloroethene	0.407	0.468	-15.0	111	0.00	11.09
62	ethyl acrylate			-----NA-----			
63	2-nitropropane	0.520	0.573	-10.2	111	0.00	11.94
64	2-chloroethyl vinyl ether	0.143	0.171	-19.6	114	0.00	11.94
65	methyl methacrylate	0.258	0.300	-16.3	119	0.00	11.29
66	1,2-dichloropropane	0.375	0.432	-15.2	111	0.00	11.37
67	methylcyclohexane	0.671	0.788	-17.4	120	0.00	11.29
68	dibromomethane	0.236	0.269	-14.0	108	0.00	11.54
69	bromodichloromethane	0.498	0.570	-14.5	110	0.00	11.68
70	cis-1,3-dichloropropene	0.554	0.628	-13.4	108	0.00	12.14
71 S	toluene-d8 (s)	1.238	1.429	-15.4	120	0.00	12.42
72	4-methyl-2-pentanone	0.115	0.131	-13.9	104	0.00	12.25
73	toluene	0.910	0.988	-8.6	111	0.00	12.49
74	3-methyl-1-butanol	0.010	0.011	-10.0	101	0.00	12.30
75	trans-1,3-dichloropropene	0.471	0.554	-17.6	109	0.00	12.72
76	ethyl methacrylate	0.351	0.389	-10.8	106	0.00	12.71
77	1,1,2-trichloroethane	0.255	0.294	-15.3	109	0.00	12.94
78	2-hexanone	0.105	0.118	-12.4	103	0.00	13.11
79 I	chlorobenzene-d5	1.000	1.000	0.0	103	0.00	13.96
80	tetrachloroethene	0.464	0.536	-15.5	108	0.00	13.08
81	1,3-dichloropropane	0.470	0.560	-19.1	108	0.00	13.12
82	butyl acetate	0.194	0.228	-17.5	103	0.00	13.19
83	dibromochloromethane	0.430	0.498	-15.8	109	0.00	13.39
84	1,2-dibromoethane	0.336	0.404	-20.2#	107	0.00	13.53
85	n-Butyl ether			-----NA-----			
86	chlorobenzene	1.127	1.322	-17.3	110	0.00	14.00
87	1,1,1,2-tetrachloroethane	0.462	0.542	-17.3	110	0.00	14.07
88	ethylbenzene	1.964	2.235	-13.8	110	0.00	14.05
89	m,p-xylene	0.770	0.869	-12.9	110	0.00	14.16
90	o-xylene	0.748	0.879	-17.5	108	0.00	14.60
91	styrene	1.141	1.393	-22.1#	110	0.00	14.61
92	bromoform	0.314	0.374	-19.1	108	0.00	14.90
93 I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	102	0.00	16.32
94	isopropylbenzene	3.160	3.681	-16.5	109	0.00	14.94

Continuing Calibration Summary

Page 3 of 3

Job Number: JB67898

Account: LANGAN Langan Engineering & Environmental

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Sample: V3V478-CC474

Lab FileID: 3V11270.D

95	S	4-bromofluorobenzene (s)	0.877	1.023	-16.6	119	0.00	15.16
96		bromobenzene	0.872	1.017	-16.6	111	0.00	15.36
97		cyclohexanone	0.123	0.129	-4.9	82	0.00	15.14
98		1,1,2,2-tetrachloroethane	0.816	0.972	-19.1	107	0.00	15.29
99		trans-1,4-dichloro-2-bute	0.182	0.216	-18.7	111	0.00	15.33
100		1,2,3-trichloropropane	0.176	0.207	-17.6	105	0.00	15.36
101		n-propylbenzene	3.811	4.519	-18.6	112	0.00	15.36
102		2-chlorotoluene	0.819	0.991	-21.0#	112	0.00	15.51
103		4-chlorotoluene	2.362	2.744	-16.2	111	0.00	15.62
104		1,3,5-trimethylbenzene	2.740	3.216	-17.4	110	0.00	15.52
105		tert-butylbenzene	2.254	2.462	-9.2	108	0.00	15.86
106		pentachloroethane	0.587	0.642	-9.4	109	0.00	15.96
107		1,2,4-trimethylbenzene	2.898	3.343	-15.4	111	0.00	15.91
108		sec-butylbenzene	3.759	4.398	-17.0	111	0.00	16.07
109		1,3-dichlorobenzene	1.846	2.113	-14.5	110	0.00	16.27
110		p-isopropyltoluene	3.109	3.704	-19.1	110	0.00	16.19
111		1,4-dichlorobenzene	1.863	2.100	-12.7	110	0.00	16.35
112		1,2-dichlorobenzene	1.823	2.078	-14.0	110	0.00	16.73
113		n-butylbenzene	1.776	2.120	-19.4	110	0.00	16.60
114		1,2-dibromo-3-chloropropa	0.183	0.203	-10.9	108	0.00	17.48
115		1,3,5-TRICHLOROBENZENE	1.824	2.058	-12.8	109	0.00	17.63
116		1,2,4-trichlorobenzene	1.708	1.914	-12.1	109	0.00	18.21
117		hexachlorobutadiene	0.890	1.008	-13.3	108	0.00	18.30
118		naphthalene	3.405	3.772	-10.8	105	0.00	18.47
119		1,2,3-trichlorobenzene	1.597	1.785	-11.8	107	0.00	18.69
120		hexachloroethane	0.672	0.735	-9.4	113	0.00	16.96
121		Benzyl chloride	1.615	1.853	-14.7	111	0.00	16.47

(#) = Out of Range
3V11189.D M3V474.M

SPCC's out = 0 CCC's out = 0
Fri May 30 14:01:24 2014 GCMS3V

Continuing Calibration Summary

Page 1 of 3

Job Number: JB67898

Sample: V3V480-CC474

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 3V11328.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\3V11328.D

Vial: 3

Acq On : 31 May 2014 12:52 pm

Operator: thienn

Sample : cc474-20

Inst : MS3V

Misc : MS68313,V3V480,5,,100,5,1

Multiplr: 1.00

MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M3V474.M (RTE Integrator)

Title : SW-846 Method 8260

Last Update : Thu May 29 12:53:16 2014

Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min

Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Tert Butyl Alcohol-d9	1.000	1.000	0.0	90	-0.02	7.28
2	1,4-dioxane	0.127	0.143	-12.6	105	0.00	11.51
3	Ethanol	-----NA-----					
4 M	tertiary butyl alcohol	1.339	1.435	-7.2	96	-0.03	7.43
5 I	pentafluorobenzene	1.000	1.000	0.0	114	0.00	9.78
	----- True	Calc.	% Drift	-----			
6	chlorodifluoromethane	20.000	21.664	-8.3	127	0.00	3.54
	----- AvgRF	CCRF	% Dev	-----			
7	dichlorodifluoromethane	1.328	1.097	17.4	90	-0.01	3.53
8	chloromethane	1.143	1.028	10.1	102	-0.01	3.84
9	vinyl chloride	1.231	1.168	5.1	106	0.00	4.12
10	bromomethane	0.781	0.705	9.7	99	-0.01	4.79
11	chloroethane	0.406	0.472	-16.3	123	0.00	4.98
12	trichlorofluoromethane	1.355	1.273	6.1	102	-0.01	5.50
13	ethyl ether	0.251	0.245	2.4	100	0.00	5.96
14	2-chloropropane	0.971	1.049	-8.0	118	0.00	6.17
15	acrolein	0.101	0.114	-12.9	120	0.00	6.28
16	1,1-dichloroethene	0.677	0.663	2.1	105	0.00	6.43
17	acetone	0.177	0.153	13.6	80	-0.01	6.53
18	allyl chloride	0.309	0.314	-1.6	106	-0.01	7.04
19	acetonitrile	0.044	0.047	-6.8	112	0.00	7.06
20	iodomethane	1.414	1.415	-0.1	104	0.00	6.74
21	iso-butyl alcohol	0.019	0.020	-5.3	100	-0.01	10.14
22	carbon disulfide	2.498	2.738	-9.6	113	0.00	6.85
23	methylene chloride	0.795	0.743	6.5	106	0.00	7.28
24	1-chloropropane	1.082	1.073	0.8	108	0.00	7.30
25	methyl acetate	0.071	0.073	-2.8	106	0.00	7.05
26	methyl tert butyl ether	1.628	1.624	0.2	99	0.00	7.63
27	trans-1,2-dichloroethene	0.716	0.672	6.1	103	0.00	7.69
28	di-isopropyl ether	1.711	1.867	-9.1	119	0.00	8.33
29	ethyl tert-butyl ether	1.716	1.837	-7.1	115	-0.01	8.85
30	2-butanone	0.056	0.047	16.1	81	0.00	9.18
31 M	1,1-dichloroethane	1.097	1.167	-6.4	107	-0.01	8.35
32	chloroprene	0.724	0.788	-8.8	116	0.00	8.46
33	acrylonitrile	0.161	0.163	-1.2	98	0.00	7.69
34	vinyl acetate	0.062	0.061	1.6	104	0.00	8.36
35	ethyl acetate	0.055	0.057	-3.6	106	0.00	9.20
36	2,2-dichloropropane	1.110	1.145	-3.2	107	-0.01	9.18
37	cis-1,2-dichloroethene	0.817	0.701	14.2	99	0.00	9.19

Continuing Calibration Summary

Page 2 of 3

Job Number: JB67898

Sample: V3V480-CC474

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 3V11328.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

38	propionitrile	0.071	0.070	1.4	98	-0.01	9.31
39	methyl acrylate	0.466	0.450	3.4	97	0.00	9.28
40	bromochloromethane	0.337	0.325	3.6	97	-0.01	9.53
41	tetrahydrofuran	0.149	0.148	0.7	99	0.00	9.57
42	chloroform	1.191	1.122	5.8	103	0.00	9.61
43 S	dibromofluoromethane (s)	0.633	0.551	13.0	99	0.00	9.83
44 S	1,2-dichloroethane-d4 (s)	0.554	0.474	14.4	96	0.00	10.27
45	freon 113	0.604	0.665	-10.1	123	0.00	6.40
46	methacrylonitrile	0.231	0.221	4.3	97	0.00	9.49
47	1,1,1-trichloroethane	1.109	1.148	-3.5	107	0.00	9.85
48	tert-amyl methyl ether	1.714	1.713	0.1	108	0.00	10.37
49 I	1,4-difluorobenzene	1.000	1.000	0.0	105	0.00	10.75
50	epichlorohydrin	0.028	0.029	-3.6	103	0.00	12.07
51	n-butyl alcohol	0.011	0.012	-9.1	99	0.00	10.93
52 M	cyclohexane	0.652	0.751	-15.2	110	0.00	9.90
53	carbon tetrachloride	0.661	0.724	-9.5	105	0.00	10.06
54	1,1-dichloropropene	0.519	0.565	-8.9	105	-0.01	10.04
55	hexane	0.413	0.512	-24.0#	126	-0.01	8.01
56	ISOCTANE	1.472	1.669	-13.4	122	0.00	10.30
57 M	benzene	1.558	1.665	-6.9	106	0.00	10.33
58	heptane	0.252	0.303	-20.2#	115	0.00	10.50
59	isopropyl acetate	0.736	0.796	-8.2	108	0.00	10.29
60	1,2-dichloroethane	0.437	0.458	-4.8	99	-0.01	10.37
61	trichloroethene	0.407	0.429	-5.4	102	0.00	11.09
62	ethyl acrylate			-----NA-----			
63	2-nitropropane	0.520	0.642	-23.5#	124	0.00	11.94
64	2-chloroethyl vinyl ether	0.143	0.195	-36.4#	129	0.00	11.94
65	methyl methacrylate	0.258	0.312	-20.9#	123	0.00	11.28
66	1,2-dichloropropane	0.375	0.406	-8.3	104	0.00	11.37
67	methylcyclohexane	0.671	0.802	-19.5	122	0.00	11.29
68	dibromomethane	0.236	0.239	-1.3	96	0.00	11.54
69	bromodichloromethane	0.498	0.524	-5.2	101	0.00	11.68
70	cis-1,3-dichloropropene	0.554	0.587	-6.0	101	0.00	12.14
71 S	toluene-d8 (s)	1.238	1.280	-3.4	108	0.00	12.42
72	4-methyl-2-pentanone	0.115	0.119	-3.5	94	0.00	12.24
73	toluene	0.910	0.934	-2.6	105	0.00	12.49
74	3-methyl-1-butanol	0.010	0.010	0.0	94	0.00	12.29
75	trans-1,3-dichloropropene	0.471	0.507	-7.6	99	0.00	12.72
76	ethyl methacrylate	0.351	0.353	-0.6	96	0.00	12.71
77	1,1,2-trichloroethane	0.255	0.269	-5.5	100	0.00	12.94
78	2-hexanone	0.105	0.106	-1.0	92	0.00	13.12
79 I	chlorobenzene-d5	1.000	1.000	0.0	104	0.00	13.96
80	tetrachloroethene	0.464	0.487	-5.0	99	0.00	13.07
81	1,3-dichloropropane	0.470	0.514	-9.4	100	0.00	13.12
82	butyl acetate	0.194	0.215	-10.8	98	0.00	13.19
83	dibromochloromethane	0.430	0.428	0.5	94	0.00	13.39
84	1,2-dibromoethane	0.336	0.358	-6.5	96	0.00	13.53
85	n-Butyl ether			-----NA-----			
86	chlorobenzene	1.127	1.204	-6.8	101	0.00	14.00
87	1,1,1,2-tetrachloroethane	0.462	0.485	-5.0	99	0.00	14.06
88	ethylbenzene	1.964	2.107	-7.3	104	0.00	14.05
89	m,p-xylene	0.770	0.806	-4.7	103	0.00	14.16
90	o-xylene	0.748	0.815	-9.0	101	0.00	14.59
91	styrene	1.141	1.261	-10.5	100	0.00	14.61
92	bromoform	0.314	0.314	0.0	92	0.00	14.90
93 I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	98	0.00	16.32
94	isopropylbenzene	3.160	3.559	-12.6	101	0.00	14.95

Continuing Calibration Summary

Page 3 of 3

Job Number: JB67898

Sample: V3V480-CC474

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 3V11328.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

95	S	4-bromofluorobenzene (s)	0.877	0.941	-7.3	105	0.00	15.17
96		bromobenzene	0.872	0.941	-7.9	98	0.00	15.35
97		cyclohexanone	0.123	0.091	26.0#	55	0.00	15.14
98		1,1,2,2-tetrachloroethane	0.816	0.920	-12.7	97	0.00	15.29
99		trans-1,4-dichloro-2-bute	0.182	0.200	-9.9	98	0.00	15.33
100		1,2,3-trichloropropane	0.176	0.188	-6.8	92	0.00	15.36
101		n-propylbenzene	3.811	4.409	-15.7	105	0.00	15.36
102		2-chlorotoluene	0.819	0.940	-14.8	102	0.00	15.51
103		4-chlorotoluene	2.362	2.652	-12.3	103	0.00	15.61
104		1,3,5-trimethylbenzene	2.740	3.130	-14.2	103	0.00	15.52
105		tert-butylbenzene	2.254	2.353	-4.4	99	0.00	15.86
106		pentachloroethane	0.587	0.610	-3.9	99	0.00	15.96
107		1,2,4-trimethylbenzene	2.898	3.174	-9.5	101	0.00	15.91
108		sec-butylbenzene	3.759	4.295	-14.3	104	0.00	16.07
109		1,3-dichlorobenzene	1.846	1.962	-6.3	98	0.00	16.27
110		p-isopropyltoluene	3.109	3.574	-15.0	102	0.00	16.19
111		1,4-dichlorobenzene	1.863	1.946	-4.5	97	0.00	16.35
112		1,2-dichlorobenzene	1.823	1.950	-7.0	99	0.00	16.73
113		n-butylbenzene	1.776	2.047	-15.3	102	0.00	16.60
114		1,2-dibromo-3-chloropropa	0.183	0.187	-2.2	95	0.00	17.48
115		1,3,5-TRICHLOROBENZENE	1.824	1.931	-5.9	98	0.00	17.63
116		1,2,4-trichlorobenzene	1.708	1.785	-4.5	97	0.00	18.21
117		hexachlorobutadiene	0.890	0.964	-8.3	99	0.00	18.30
118		naphthalene	3.405	3.587	-5.3	96	0.00	18.47
119		1,2,3-trichlorobenzene	1.597	1.703	-6.6	98	0.00	18.69
120		hexachloroethane	0.672	0.699	-4.0	103	0.00	16.96
121		Benzyl chloride	1.615	1.666	-3.2	96	0.00	16.47

(#) = Out of Range
3V11189.D M3V474.M

SPCC's out = 0 CCC's out = 0
Mon Jun 02 12:11:27 2014 GCMS3V

GC/MS Volatiles

Raw Data

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 3V11293.D
Acq On : 29 May 2014 8:00 pm
Operator : thienn
Sample : jB67898-1
Misc : MS68245,V3V478,5.3,,,,1
ALS Vial : 25 Sample Multiplier: 1

Quant Time: May 30 14:12:07 2014
Quant Method : C:\MSDCHEM\1\METHODS\M3V474.M
Quant Title : SW-846 Method 8260
QLast Update : Thu May 22 15:57:42 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	7.300	65	71180	500.00	ug/L	0.00
5) pentafluorobenzene	9.786	168	156109	50.00	ug/L	0.00
49) 1,4-difluorobenzene	10.750	114	226846	50.00	ug/L	0.00
79) chlorobenzene-d5	13.970	117	231910	50.00	ug/L	0.00
93) 1,4-dichlorobenzene-d4	16.329	152	153428	50.00	ug/L	0.00
System Monitoring Compounds						
43) dibromofluoromethane (s)	9.833	113	102687	51.99	ug/L	0.00
Spiked Amount	50.000	Range	59 - 130	Recovery	=	103.98%
44) 1,2-dichloroethane-d4 (s)	10.279	65	87361	50.51	ug/L	0.00
Spiked Amount	50.000	Range	65 - 123	Recovery	=	101.02%
71) toluene-d8 (s)	12.423	98	352807	62.80	ug/L	0.00
Spiked Amount	50.000	Range	80 - 124	Recovery	=	125.60%#
95) 4-bromofluorobenzene (s)	15.165	95	155613	57.84	ug/L	0.00
Spiked Amount	50.000	Range	71 - 132	Recovery	=	115.68%
Target Compounds						
17) acetone	6.540	43	21309	38.57	ug/L	96
22) carbon disulfide	6.860	76	5450	0.70	ug/L	88
23) methylene chloride	7.285	84	5314	2.14	ug/L	99
30) 2-butanone	9.183	72	1345	7.73	ug/L #	1
67) methylcyclohexane	11.285	83	19178	6.30	ug/L	98
94) isopropylbenzene	14.950	105	12123	1.25	ug/L	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

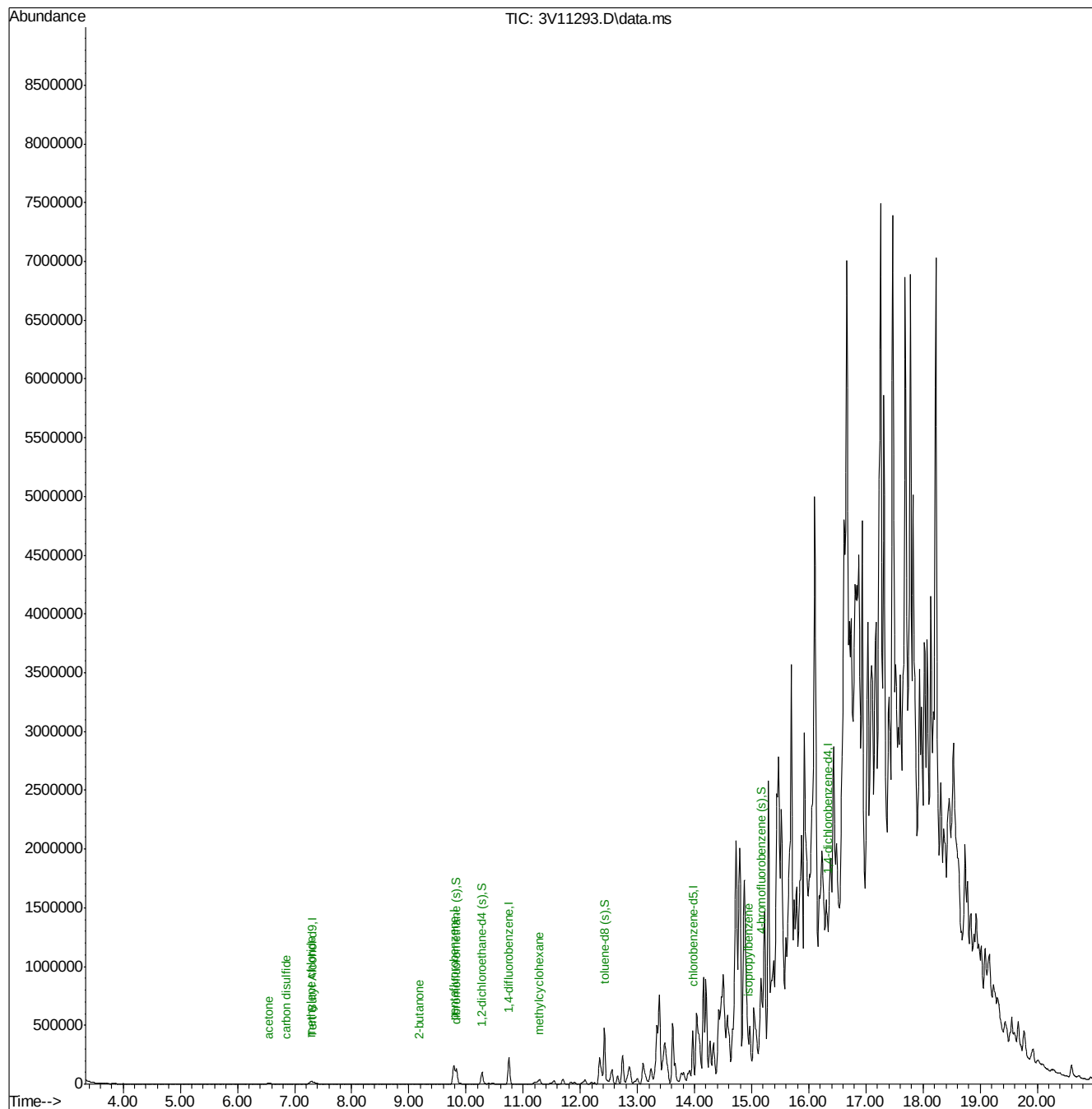
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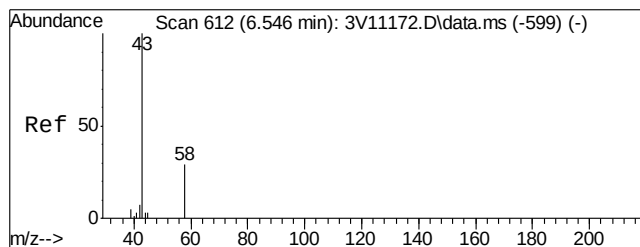
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Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 3V11293.D
Acq On : 29 May 2014 8:00 pm
Operator : thienn
Sample : jb67898-1
Misc : MS68245,V3V478,5.3,,,,,1
ALS Vial : 25 Sample Multiplier: 1

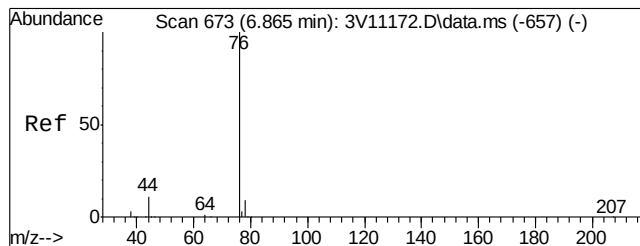
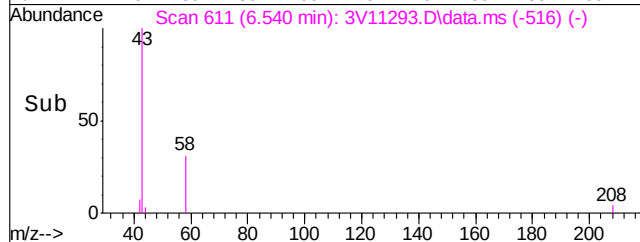
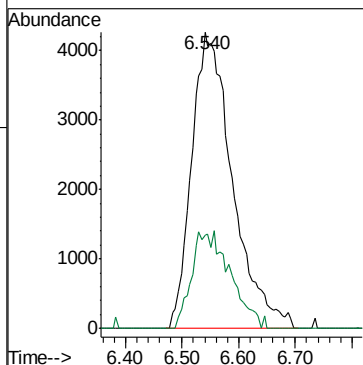
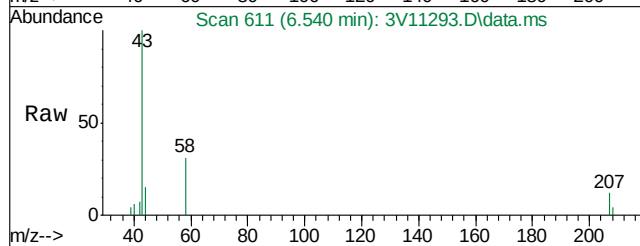
Quant Time: May 30 14:12:07 2014
Quant Method : C:\MSDCHEM\1\METHODS\M3V474.M
Quant Title : SW-846 Method 8260
QLast Update : Thu May 22 15:57:42 2014
Response via : Initial Calibration





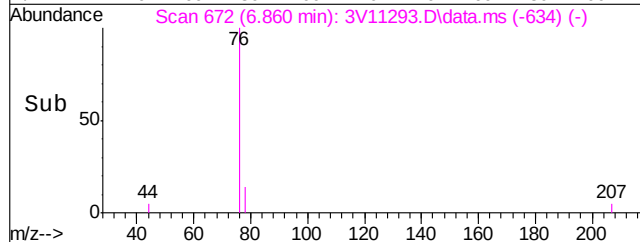
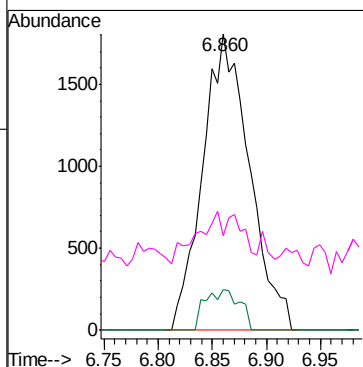
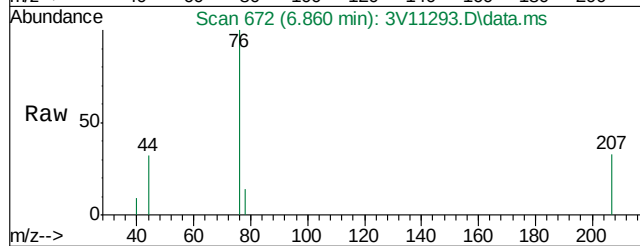
#17
acetone
Concen: 38.57 ug/L
RT: 6.540 min Scan# 611
Delta R.T. 0.000 min
Lab File: 3V11293.D
Acq: 29 May 2014 8:00 pm

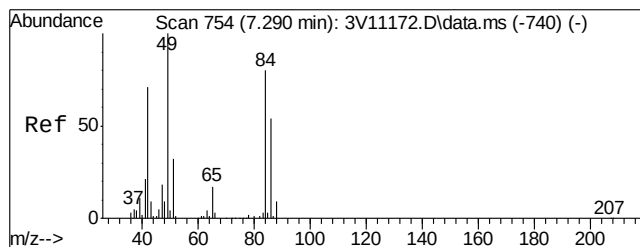
Tgt Ion: 43 Resp: 21309
Ion Ratio Lower Upper
43 100
58 31.4 3.8 63.8



#22
carbon disulfide
Concen: 0.70 ug/L
RT: 6.860 min Scan# 672
Delta R.T. 0.000 min
Lab File: 3V11293.D
Acq: 29 May 2014 8:00 pm

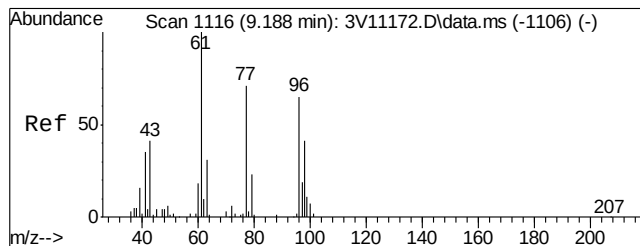
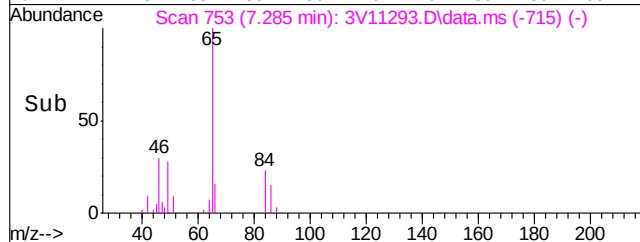
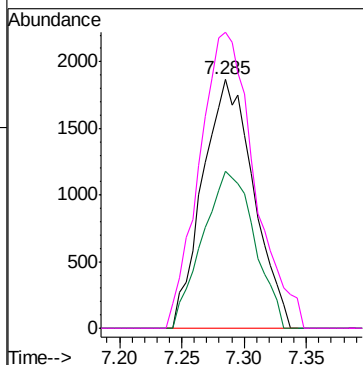
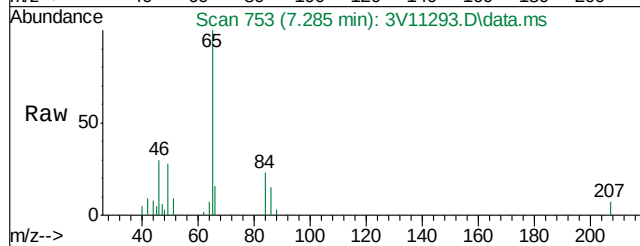
Tgt Ion: 76 Resp: 5450
Ion Ratio Lower Upper
76 100
78 13.6 0.0 39.0
44 6.3 0.0 40.7





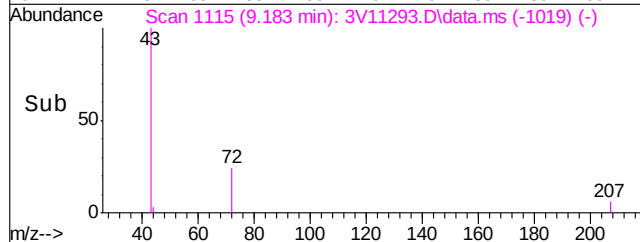
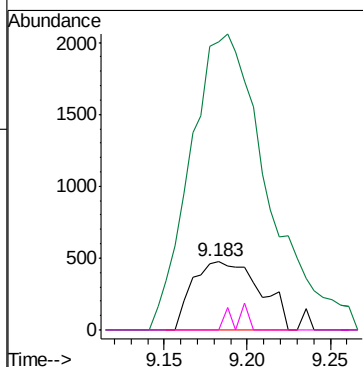
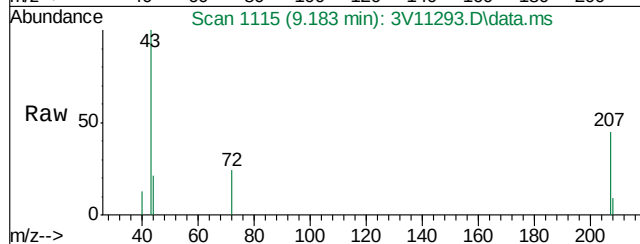
#23
methylene chloride
Concen: 2.14 ug/L
RT: 7.285 min Scan# 753
Delta R.T. -0.000 min
Lab File: 3V11293.D
Acq: 29 May 2014 8:00 pm

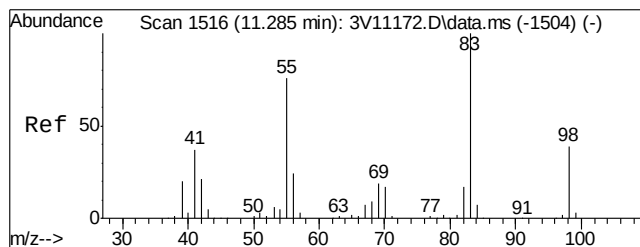
Tgt Ion	Ratio	Lower	Upper
84	100		
86	63.0	44.9	83.5
49	118.8	83.8	155.6



#30
2-butanone
Concen: 7.73 ug/L
RT: 9.183 min Scan# 1115
Delta R.T. 0.005 min
Lab File: 3V11293.D
Acq: 29 May 2014 8:00 pm

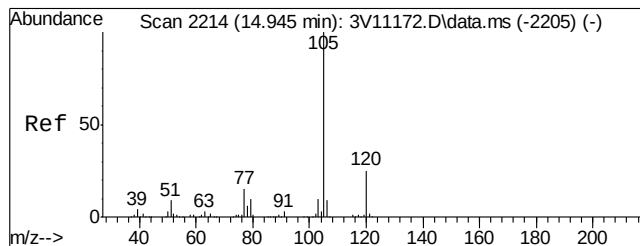
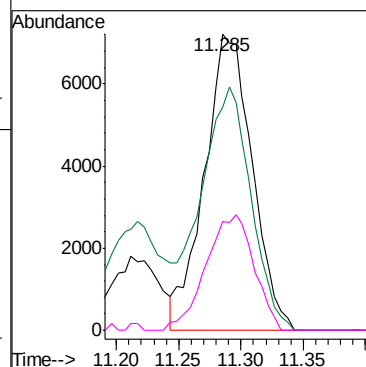
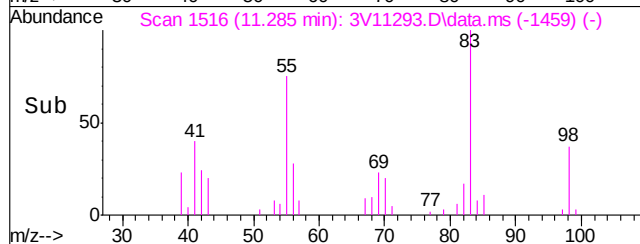
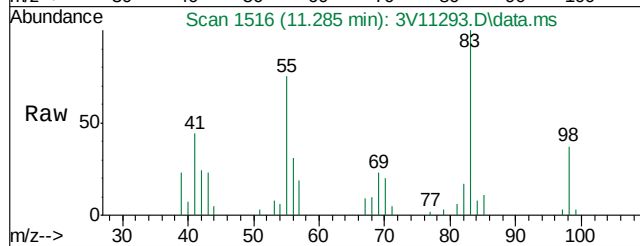
Tgt Ion	Ratio	Lower	Upper
72	100		
43	498.4	704.9	1309.1#
57	0.0	17.5	32.5#





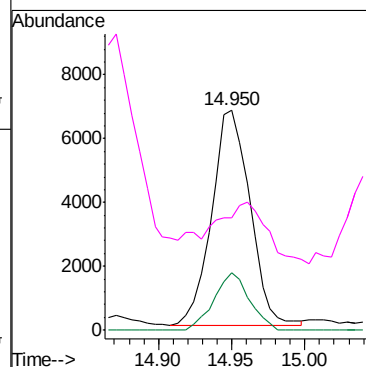
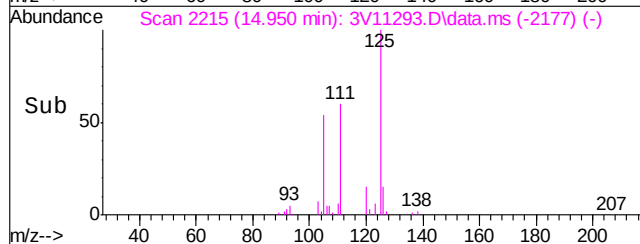
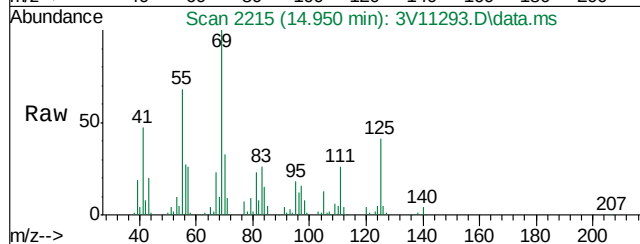
#67
methylcyclohexane
Concen: 6.30 ug/L
RT: 11.285 min Scan# 1516
Delta R.T. 0.000 min
Lab File: 3V11293.D
Acq: 29 May 2014 8:00 pm

Tgt Ion:	83	Resp:	19178
Ion Ratio	Lower	Upper	
83	100		
55	75.5	46.1	106.1
98	36.7	8.8	68.8



#94
isopropylbenzene
Concen: 1.25 ug/L
RT: 14.950 min Scan# 2215
Delta R.T. 0.000 min
Lab File: 3V11293.D
Acq: 29 May 2014 8:00 pm

Tgt Ion:	105	Resp:	12123
Ion Ratio	Lower	Upper	
105	100		
120	26.7	0.0	55.7
77	19.5	0.0	44.5



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 3V11333.D
 Acq On : 31 May 2014 4:14 pm
 Operator : thienn
 Sample : jB67898-1cfs
 Misc : MS68160,V3V480,4.4,,100,10,1
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 02 15:34:52 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M3V474.M
 Quant Title : SW-846 Method 8260
 QLast Update : Thu May 22 15:57:42 2014
 Response via : Initial Calibration

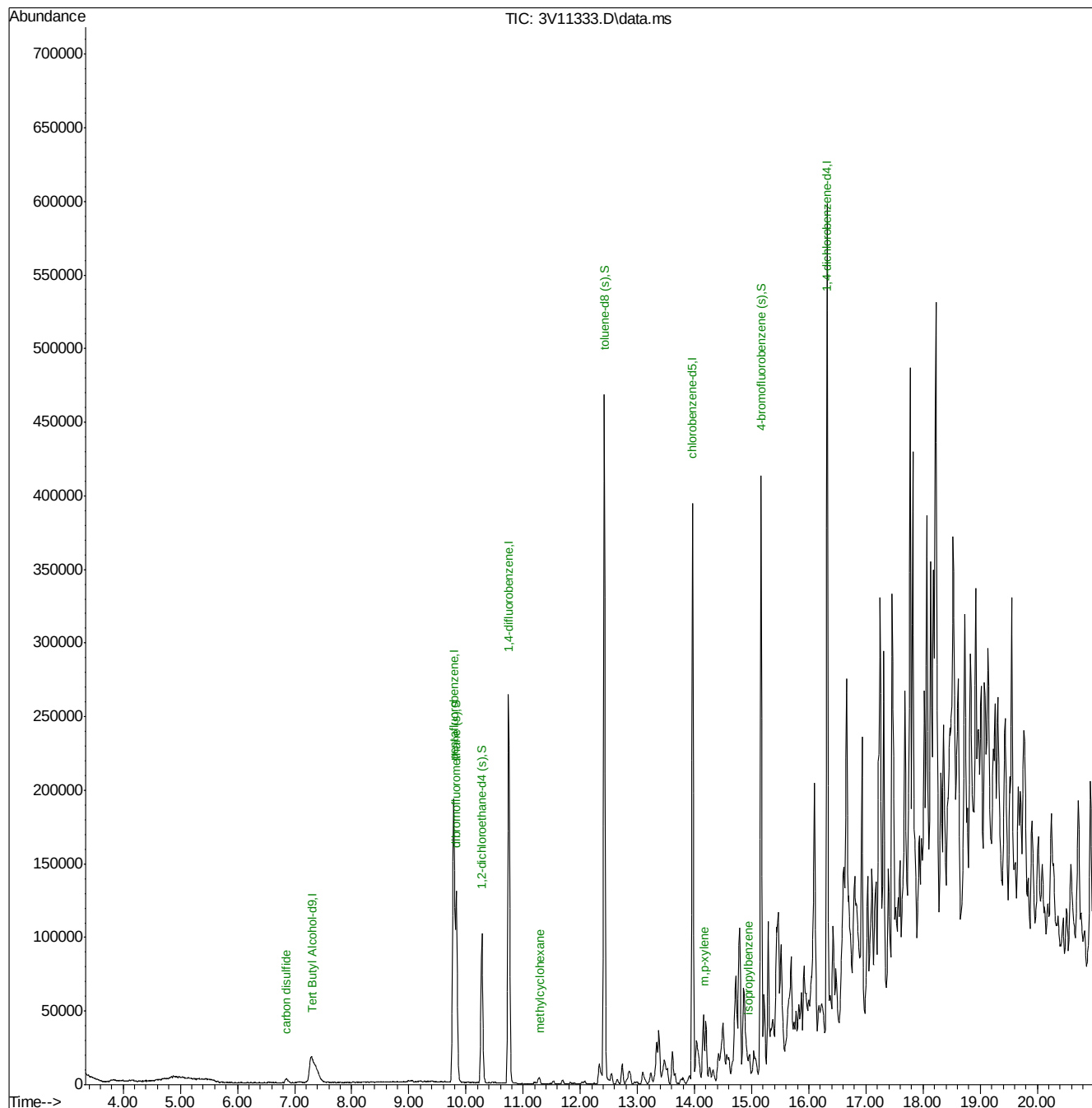
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	7.301	65	79570	500.00	ug/L	0.00
5) pentafluorobenzene	9.786	168	183999	50.00	ug/L	0.00
49) 1,4-difluorobenzene	10.751	114	260707	50.00	ug/L	0.00
79) chlorobenzene-d5	13.965	117	233492	50.00	ug/L	0.00
93) 1,4-dichlorobenzene-d4	16.324	152	151995	50.00	ug/L	0.00
System Monitoring Compounds						
43) dibromofluoromethane (s)	9.833	113	99310	42.66	ug/L	0.00
Spiked Amount 50.000	Range 59 - 130		Recovery =	85.32%		
44) 1,2-dichloroethane-d4 (s)	10.279	65	84353	41.38	ug/L	0.00
Spiked Amount 50.000	Range 65 - 123		Recovery =	82.76%		
71) toluene-d8 (s)	12.418	98	333121	51.59	ug/L	0.00
Spiked Amount 50.000	Range 80 - 124		Recovery =	103.18%		
95) 4-bromofluorobenzene (s)	15.165	95	135294	50.77	ug/L	0.00
Spiked Amount 50.000	Range 71 - 132		Recovery =	101.54%		
Target Compounds						
22) carbon disulfide	6.860	76	7340	0.80	ug/L	92
67) methylcyclohexane	11.291	83	2356	0.67	ug/L	96
89) m,p-xylene	14.164	106	1119	0.31	ug/L	82
94) isopropylbenzene	14.945	105	3430	0.36	ug/L	94

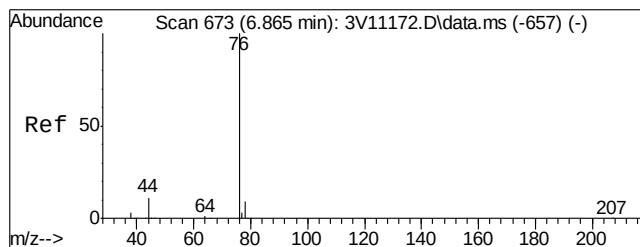
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 3V11333.D
Acq On : 31 May 2014 4:14 pm
Operator : thienn
Sample : jB67898-1cfs
Misc : MS68160,V3V480,4.4,,100,10,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 02 15:34:52 2014
Quant Method : C:\MSDCHEM\1\METHODS\M3V474.M
Quant Title : SW-846 Method 8260
QLast Update : Thu May 22 15:57:42 2014
Response via : Initial Calibration





#22

carbon disulfide

Concen: 0.80 ug/L

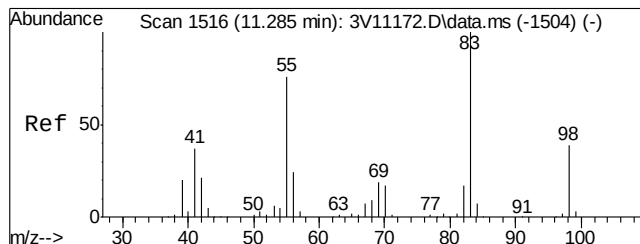
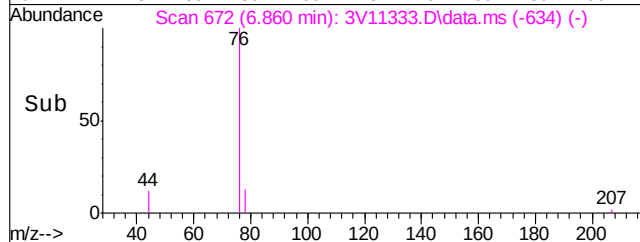
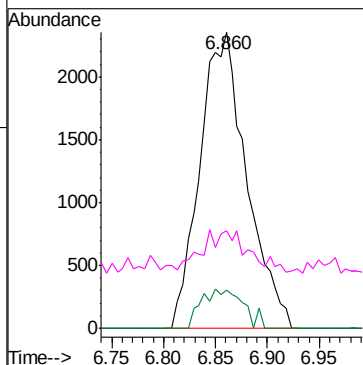
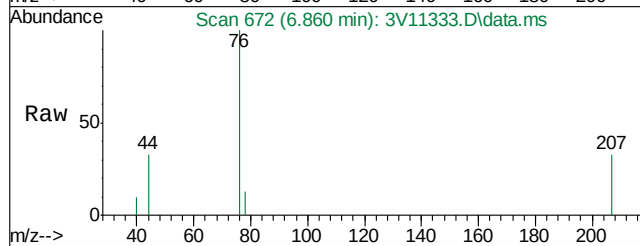
RT: 6.860 min Scan# 672

Delta R.T. 0.000 min

Lab File: 3V11333.D

Acq: 31 May 2014 4:14 pm

Tgt Ion:	76	Resp:	7340
Ion Ratio	Lower	Upper	
76	100		
78	13.0	0.0	39.0
44	12.4	0.0	40.7



#67

methylcyclohexane

Concen: 0.67 ug/L

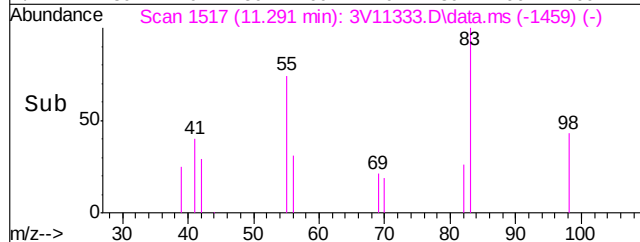
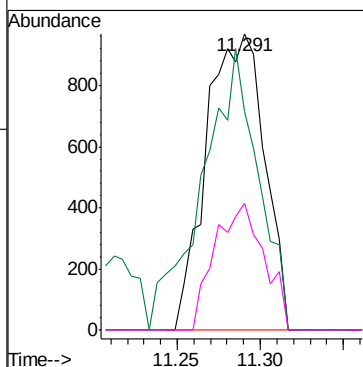
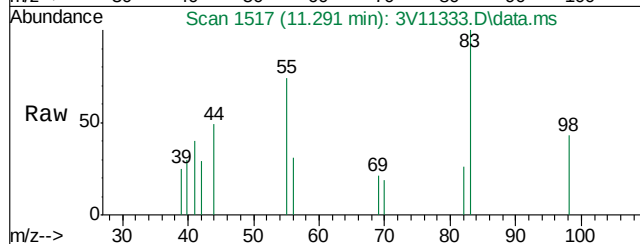
RT: 11.291 min Scan# 1517

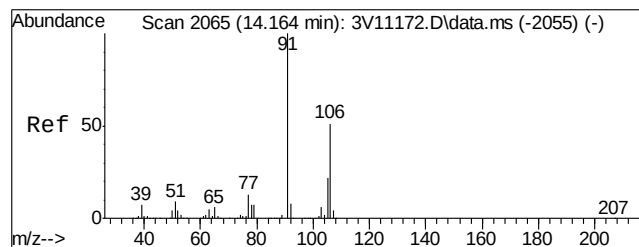
Delta R.T. 0.006 min

Lab File: 3V11333.D

Acq: 31 May 2014 4:14 pm

Tgt Ion:	83	Resp:	2356
Ion Ratio	Lower	Upper	
83	100		
55	73.9	46.1	106.1
98	42.9	8.8	68.8





#89

m,p-xylene

Concen: 0.31 ug/L

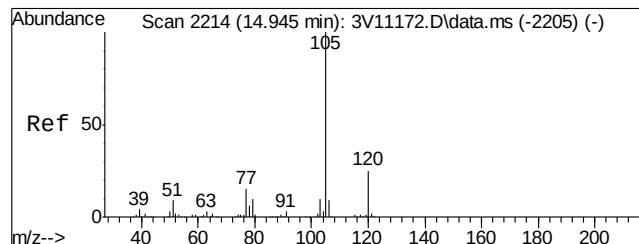
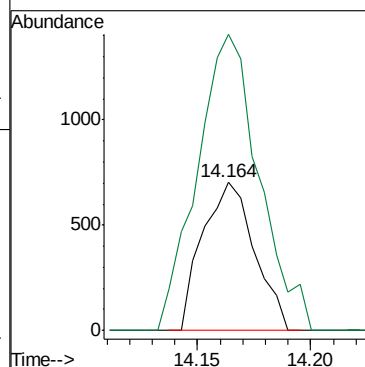
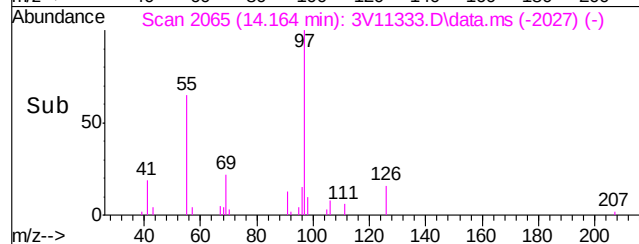
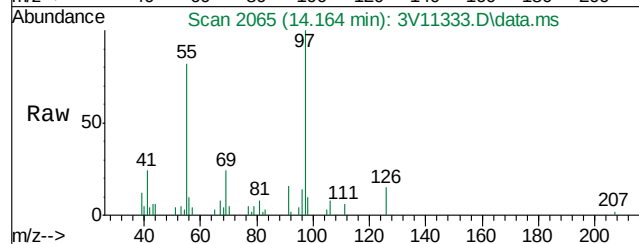
RT: 14.164 min Scan# 2065

Delta R.T. -0.000 min

Lab File: 3V11333.D

Acq: 31 May 2014 4:14 pm

Tgt Ion	106	Resp	1119
Ion Ratio	100	Lower	Upper
91	171.5	138.7	257.7



#94

isopropylbenzene

Concen: 0.36 ug/L

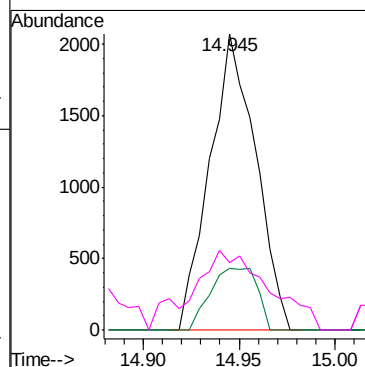
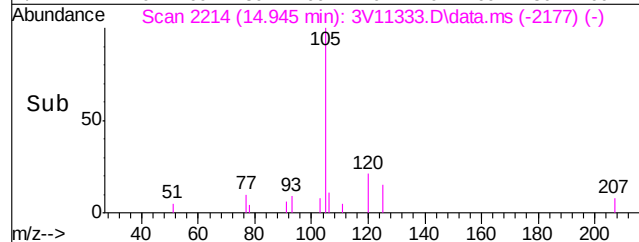
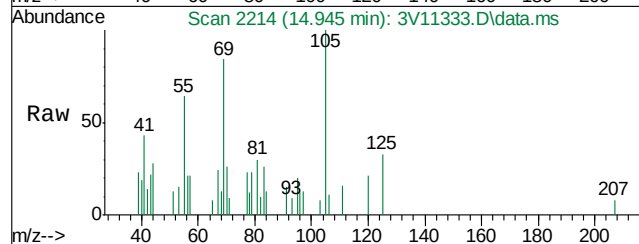
RT: 14.945 min Scan# 2214

Delta R.T. -0.005 min

Lab File: 3V11333.D

Acq: 31 May 2014 4:14 pm

Tgt Ion	105	Resp	3430
Ion Ratio	100	Lower	Upper
120	20.7	0.0	55.7
77	14.3	0.0	44.5



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 3V11292.D
 Acq On : 29 May 2014 7:33 pm
 Operator : thienn
 Sample : jB67898-2
 Misc : MS68245,V3V478,5.0,,,,1
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: May 30 14:10:53 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M3V474.M
 Quant Title : SW-846 Method 8260
 QLast Update : Thu May 22 15:57:42 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	7.280	65	81263	500.00	ug/L	-0.03
5) pentafluorobenzene	9.780	168	146719	50.00	ug/L	0.00
49) 1,4-difluorobenzene	10.750	114	218129	50.00	ug/L	0.00
79) chlorobenzene-d5	13.964	117	204507	50.00	ug/L	0.00
93) 1,4-dichlorobenzene-d4	16.324	152	127192	50.00	ug/L	0.00
System Monitoring Compounds						
43) dibromofluoromethane (s)	9.833	113	101397	54.62	ug/L	0.00
Spiked Amount 50.000	Range 59 - 130		Recovery =	109.24%		
44) 1,2-dichloroethane-d4 (s)	10.279	65	88407	54.39	ug/L	0.00
Spiked Amount 50.000	Range 65 - 123		Recovery =	108.78%		
71) toluene-d8 (s)	12.418	98	314922	58.29	ug/L	0.00
Spiked Amount 50.000	Range 80 - 124		Recovery =	116.58%		
95) 4-bromofluorobenzene (s)	15.165	95	132486	59.41	ug/L	0.00
Spiked Amount 50.000	Range 71 - 132		Recovery =	118.82%		
Target Compounds						
17) acetone	6.535	43	62883	121.10	ug/L	99
22) carbon disulfide	6.855	76	4136	0.56	ug/L	91
30) 2-butanone	9.178	72	4775	29.20	ug/L #	1
67) methylcyclohexane	11.285	83	3501	1.20	ug/L	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

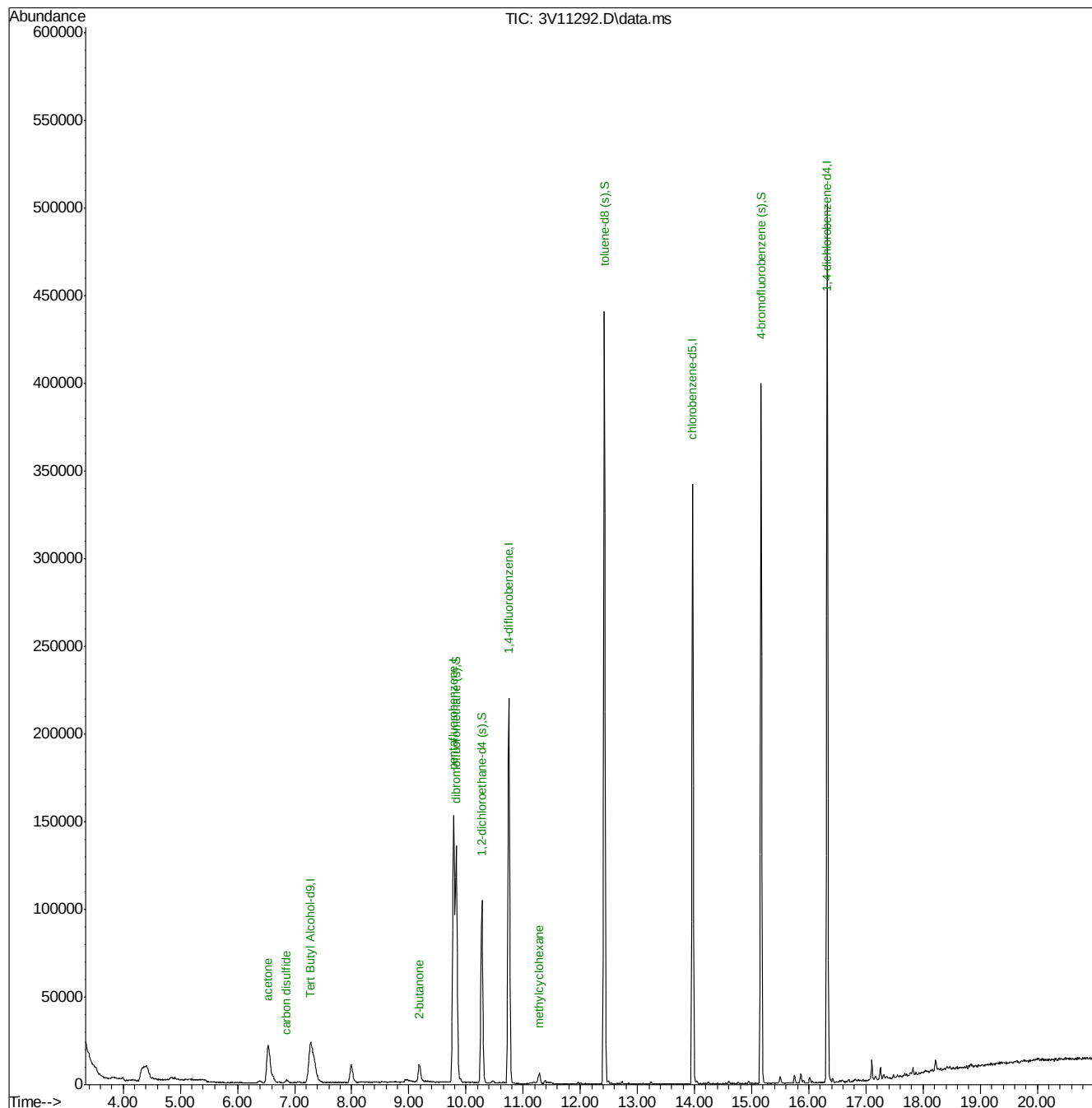
7.1.3

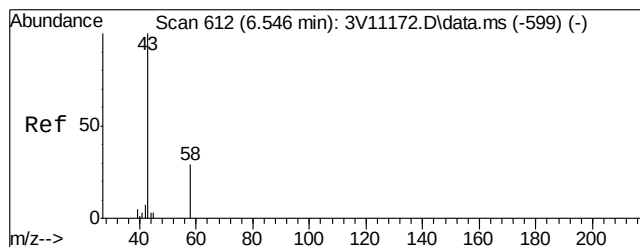
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 3V11292.D
 Acq On : 29 May 2014 7:33 pm
 Operator : thienn
 Sample : jb67898-2
 Misc : MS68245,V3V478,5.0,,,1
 ALS Vial : 24 Sample Multiplier: 1

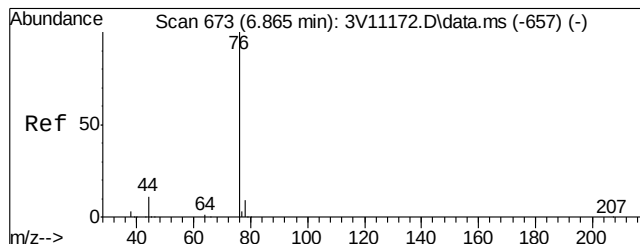
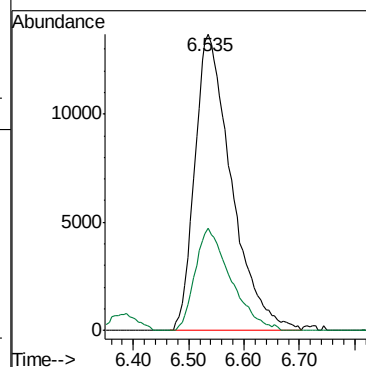
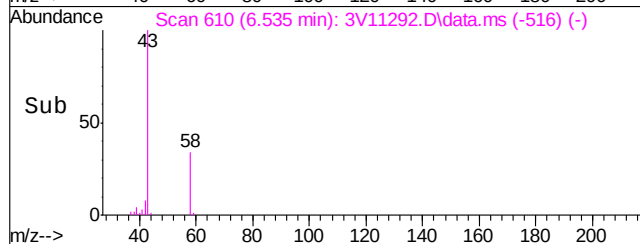
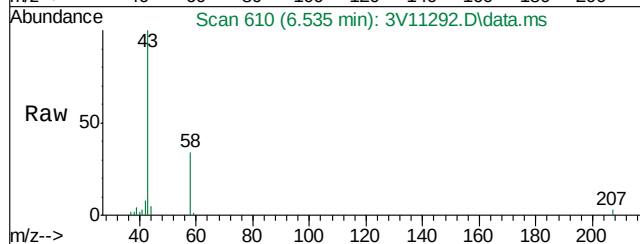
Quant Time: May 30 14:10:53 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M3V474.M
 Quant Title : SW-846 Method 8260
 QLast Update : Thu May 22 15:57:42 2014
 Response via : Initial Calibration





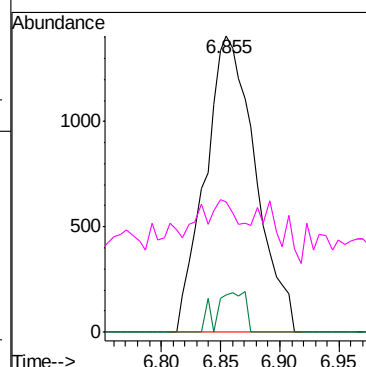
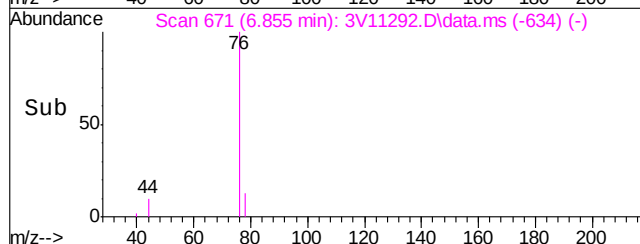
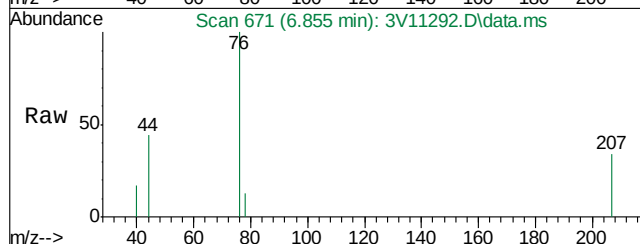
#17
acetone
Concen: 121.10 ug/L
RT: 6.535 min Scan# 610
Delta R.T. -0.005 min
Lab File: 3V11292.D
Acq: 29 May 2014 7:33 pm

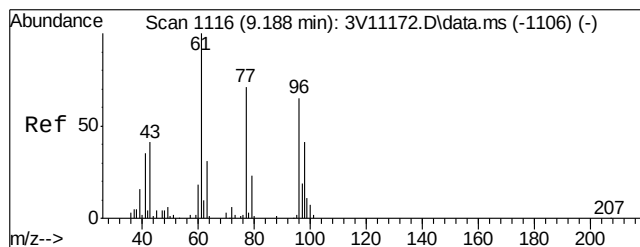
Tgt Ion: 43 Resp: 62883
Ion Ratio Lower Upper
43 100
58 34.3 3.8 63.8



#22
carbon disulfide
Concen: 0.56 ug/L
RT: 6.855 min Scan# 671
Delta R.T. -0.005 min
Lab File: 3V11292.D
Acq: 29 May 2014 7:33 pm

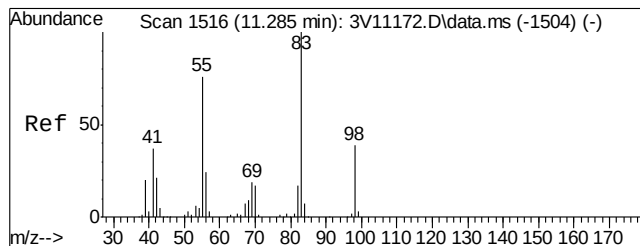
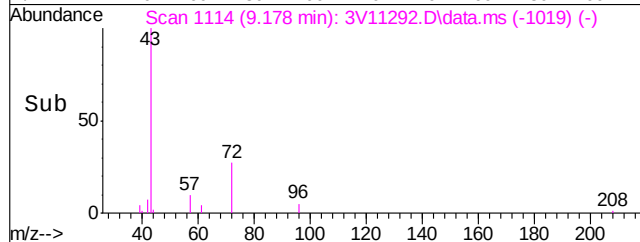
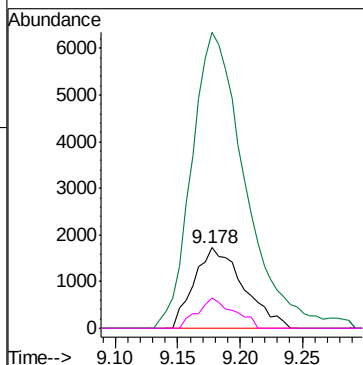
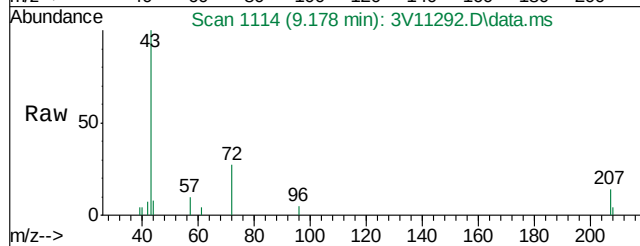
Tgt Ion: 76 Resp: 4136
Ion Ratio Lower Upper
76 100
78 12.7 0.0 39.0
44 13.8 0.0 40.7





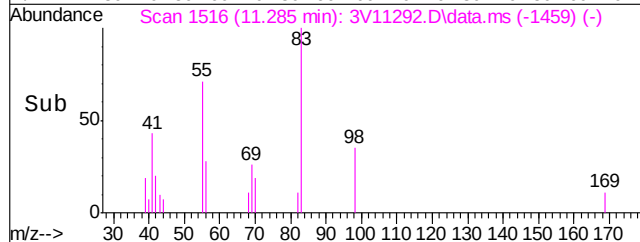
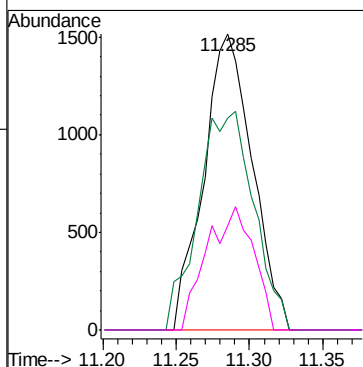
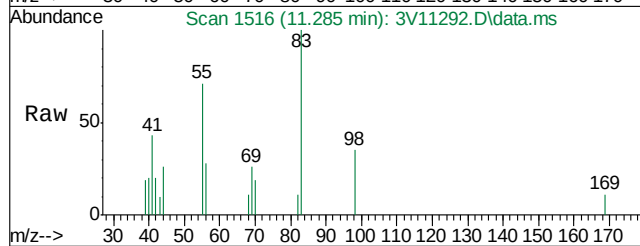
#30
2-butanone
Concen: 29.20 ug/L
RT: 9.178 min Scan# 1114
Delta R.T. -0.000 min
Lab File: 3V11292.D
Acq: 29 May 2014 7:33 pm

Tgt Ion	Ratio	Lower	Upper
72	100		
43	399.9	704.9	1309.1#
57	27.7	17.5	32.5



#67
methylcyclohexane
Concen: 1.20 ug/L
RT: 11.285 min Scan# 1516
Delta R.T. 0.000 min
Lab File: 3V11292.D
Acq: 29 May 2014 7:33 pm

Tgt Ion	Ratio	Lower	Upper
83	100		
55	71.5	46.1	106.1
98	35.3	8.8	68.8



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1C core\v1c5745-5746\
 Data File : 1C128866.D
 Acq On : 3 Jun 2014 2:11 am
 Operator : mariceld
 Sample : jB67898-3
 Misc : MS68246,V1C5746,5,,,,1
 ALS Vial : 35 Sample Multiplier: 1

Quant Time: Jun 05 13:40:39 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M1C5716.M
 Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
 QLast Update : Tue May 13 12:33:26 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	7.121	65	122972	500.00	ug/L	0.00
4) pentafluorobenzene	9.627	168	159276	50.00	ug/L	0.00
58) 1,4-difluorobenzene	10.584	114	238059	50.00	ug/L	0.00
88) chlorobenzene-d5	13.941	117	224429	50.00	ug/L	0.00
103) 1,4-dichlorobenzene-d4	16.421	152	131289	50.00	ug/L	0.00
System Monitoring Compounds						
52) dibromofluoromethane (s)	9.653	113	92276	49.33	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery =	98.66%		
53) 1,2-dichloroethane-d4 (s)	10.092	65	103819	47.89	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery =	95.78%		
80) toluene-d8 (s)	12.320	98	341680	51.24	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery =	102.48%		
105) 4-bromofluorobenzene (s)	15.186	95	130816	50.62	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery =	101.24%		

Target Compounds Qvalue

 (#) = qualifier out of range (m) = manual integration (+) = signals summed

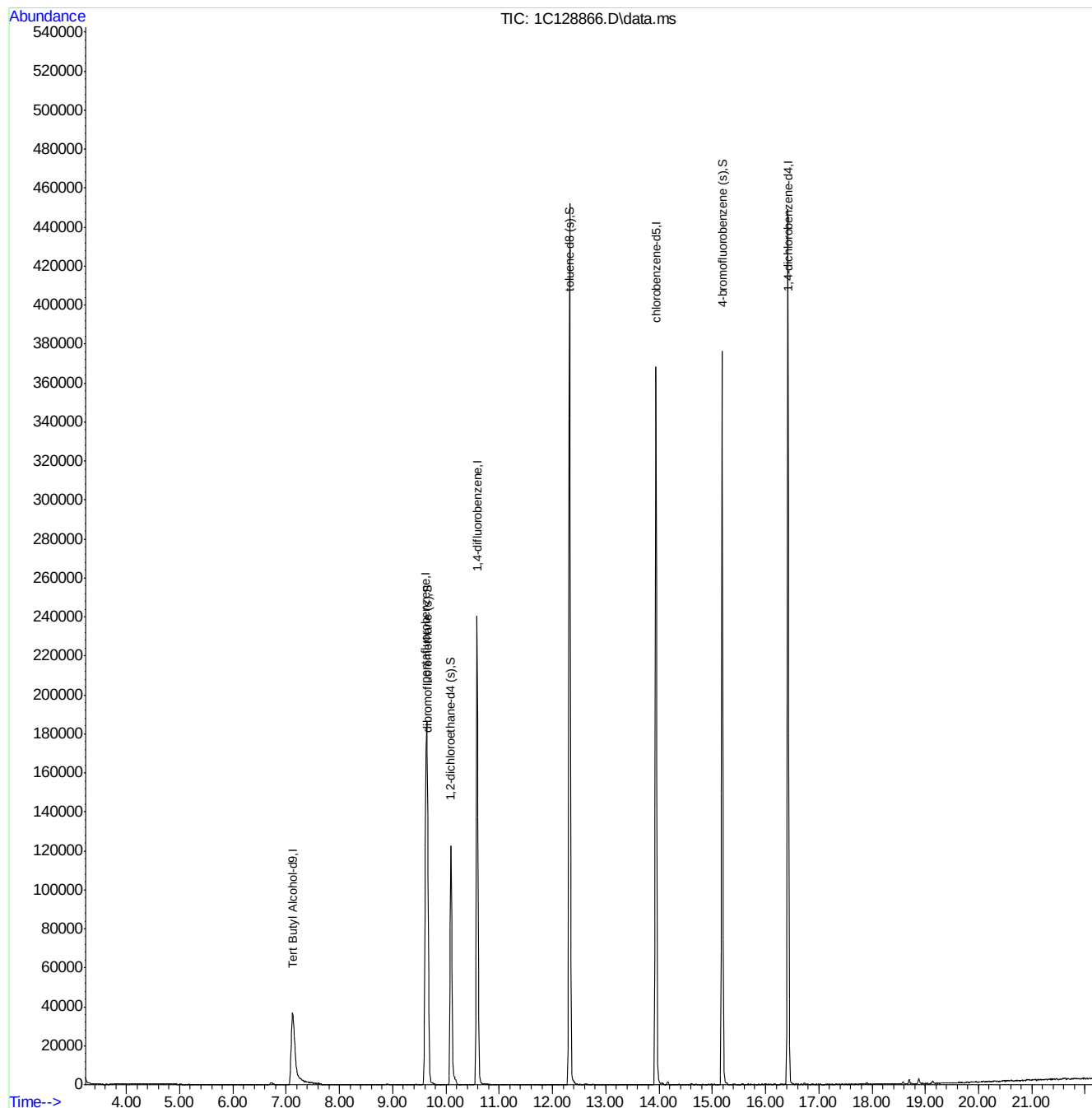
7.1.4

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1C core\v1c5745-5746\
Data File : 1C128866.D
Acq On : 3 Jun 2014 2:11 am
Operator : mariceld
Sample : jb67898-3
Misc : MS68246,V1C5746,5,,,,1
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Jun 05 13:40:39 2014
Quant Method : C:\MSDCHEM\1\METHODS\M1C5716.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Tue May 13 12:33:26 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1C core\v1c5745-5746\
 Data File : 1C128867.D
 Acq On : 3 Jun 2014 2:39 am
 Operator : mariceld
 Sample : jB67898-4
 Misc : MS68246,V1C5746,5,,,,1
 ALS Vial : 36 Sample Multiplier: 1

Quant Time: Jun 05 13:41:01 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M1C5716.M
 Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
 QLast Update : Tue May 13 12:33:26 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	7.116	65	113087	500.00	ug/L	-0.01
4) pentafluorobenzene	9.621	168	158459	50.00	ug/L	0.00
58) 1,4-difluorobenzene	10.584	114	240260	50.00	ug/L	0.00
88) chlorobenzene-d5	13.941	117	228735	50.00	ug/L	0.00
103) 1,4-dichlorobenzene-d4	16.421	152	139406	50.00	ug/L	0.00
System Monitoring Compounds						
52) dibromofluoromethane (s)	9.653	113	92822	49.87	ug/L	0.00
Spiked Amount	50.000	Range	79 - 120	Recovery	=	99.74%
53) 1,2-dichloroethane-d4 (s)	10.097	65	106002	49.15	ug/L	0.00
Spiked Amount	50.000	Range	72 - 123	Recovery	=	98.30%
80) toluene-d8 (s)	12.320	98	343786	51.08	ug/L	0.00
Spiked Amount	50.000	Range	78 - 119	Recovery	=	102.16%
105) 4-bromofluorobenzene (s)	15.186	95	135118	49.24	ug/L	0.00
Spiked Amount	50.000	Range	74 - 119	Recovery	=	98.48%

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

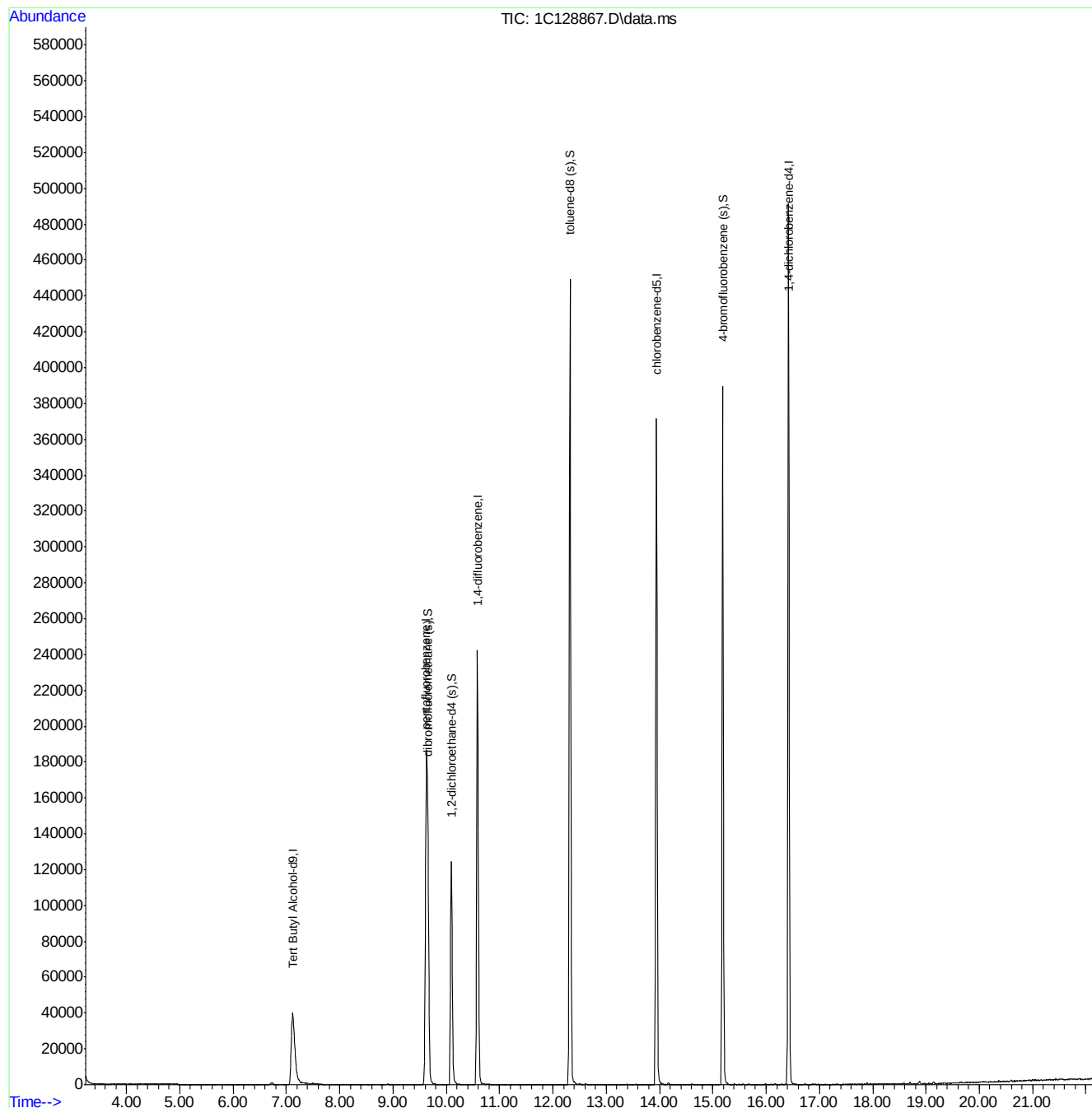
7.1.5

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1C core\v1c5745-5746\
Data File : 1C128867.D
Acq On : 3 Jun 2014 2:39 am
Operator : mariceld
Sample : jb67898-4
Misc : MS68246,V1C5746,5,,,,,1
ALS Vial : 36 Sample Multiplier: 1

Quant Time: Jun 05 13:41:01 2014
Quant Method : C:\MSDCHEM\1\METHODS\M1C5716.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Tue May 13 12:33:26 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 3V11272.D
Acq On : 29 May 2014 10:24 am
Operator : thienn
Sample : mb1
Misc : MS68248,V3V478,5,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 30 14:02:22 2014
Quant Method : C:\MSDCHEM\1\METHODS\M3V474.M
Quant Title : SW-846 Method 8260
QLast Update : Thu May 29 12:53:16 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	7.295	65	80685	500.00	ug/L	-0.01
5) pentafluorobenzene	9.786	168	154729	50.00	ug/L	0.00
49) 1,4-difluorobenzene	10.750	114	227575	50.00	ug/L	0.00
79) chlorobenzene-d5	13.970	117	211808	50.00	ug/L	0.00
93) 1,4-dichlorobenzene-d4	16.324	152	134333	50.00	ug/L	0.00
System Monitoring Compounds						
43) dibromofluoromethane (s)	9.833	113	105195	53.73	ug/L	0.00
Spiked Amount	50.000	Range	59 - 130	Recovery	=	107.46%
44) 1,2-dichloroethane-d4 (s)	10.278	65	90499	52.80	ug/L	0.00
Spiked Amount	50.000	Range	65 - 123	Recovery	=	105.60%
71) toluene-d8 (s)	12.418	98	329416	58.45	ug/L	0.00
Spiked Amount	50.000	Range	80 - 124	Recovery	=	116.90%
95) 4-bromofluorobenzene (s)	15.165	95	137915	58.55	ug/L	0.00
Spiked Amount	50.000	Range	71 - 132	Recovery	=	117.10%

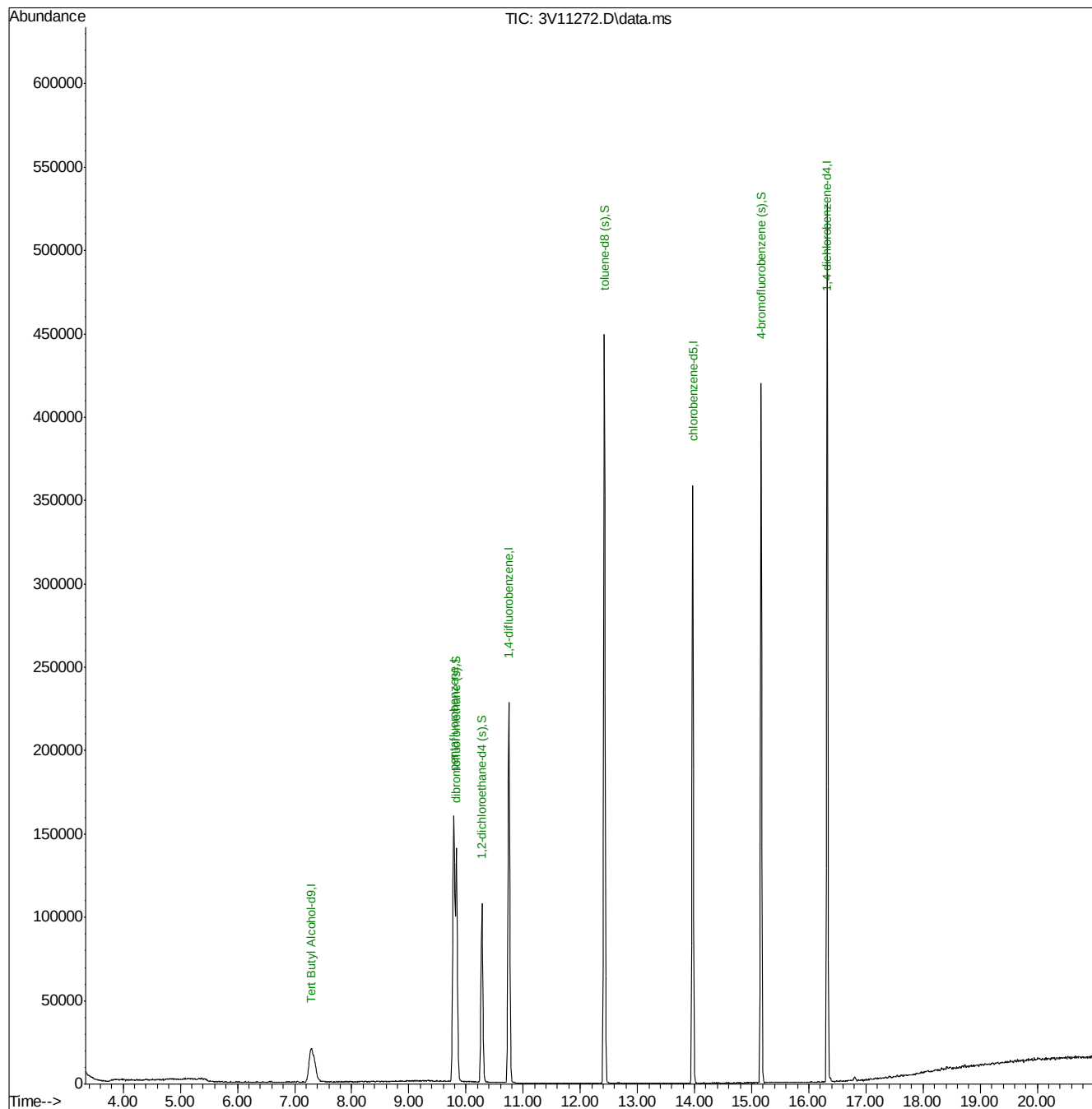
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 3V11272.D
Acq On : 29 May 2014 10:24 am
Operator : thienn
Sample : mb1
Misc : MS68248,V3V478,5,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 30 14:02:22 2014
Quant Method : C:\MSDCHEM\1\METHODS\M3V474.M
Quant Title : SW-846 Method 8260
QLast Update : Thu May 29 12:53:16 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1C core\v1c5745-5746\
Data File : 1C128861.D
Acq On : 2 Jun 2014 11:49 pm
Operator : mariceld
Sample : mb
Misc : MS68264,V1C5746,5,,,,,1
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jun 03 16:08:05 2014
Quant Method : C:\MSDCHEM\1\METHODS\M1C5716.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Tue May 13 12:33:26 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	7.126	65	110169	500.00	ug/L	0.00
4) pentafluorobenzene	9.626	168	146535	50.00	ug/L	0.00
58) 1,4-difluorobenzene	10.584	114	220230	50.00	ug/L	0.00
88) chlorobenzene-d5	13.941	117	210054	50.00	ug/L	0.00
103) 1,4-dichlorobenzene-d4	16.420	152	129340	50.00	ug/L	0.00
System Monitoring Compounds						
52) dibromofluoromethane (s)	9.653	113	86333	50.16	ug/L	0.00
Spiked Amount	50.000	Range	79 - 120	Recovery	=	100.32%
53) 1,2-dichloroethane-d4 (s)	10.097	65	98957	49.61	ug/L	0.00
Spiked Amount	50.000	Range	72 - 123	Recovery	=	99.22%
80) toluene-d8 (s)	12.320	98	317555	51.47	ug/L	0.00
Spiked Amount	50.000	Range	78 - 119	Recovery	=	102.94%
105) 4-bromofluorobenzene (s)	15.186	95	125093	49.13	ug/L	0.00
Spiked Amount	50.000	Range	74 - 119	Recovery	=	98.26%

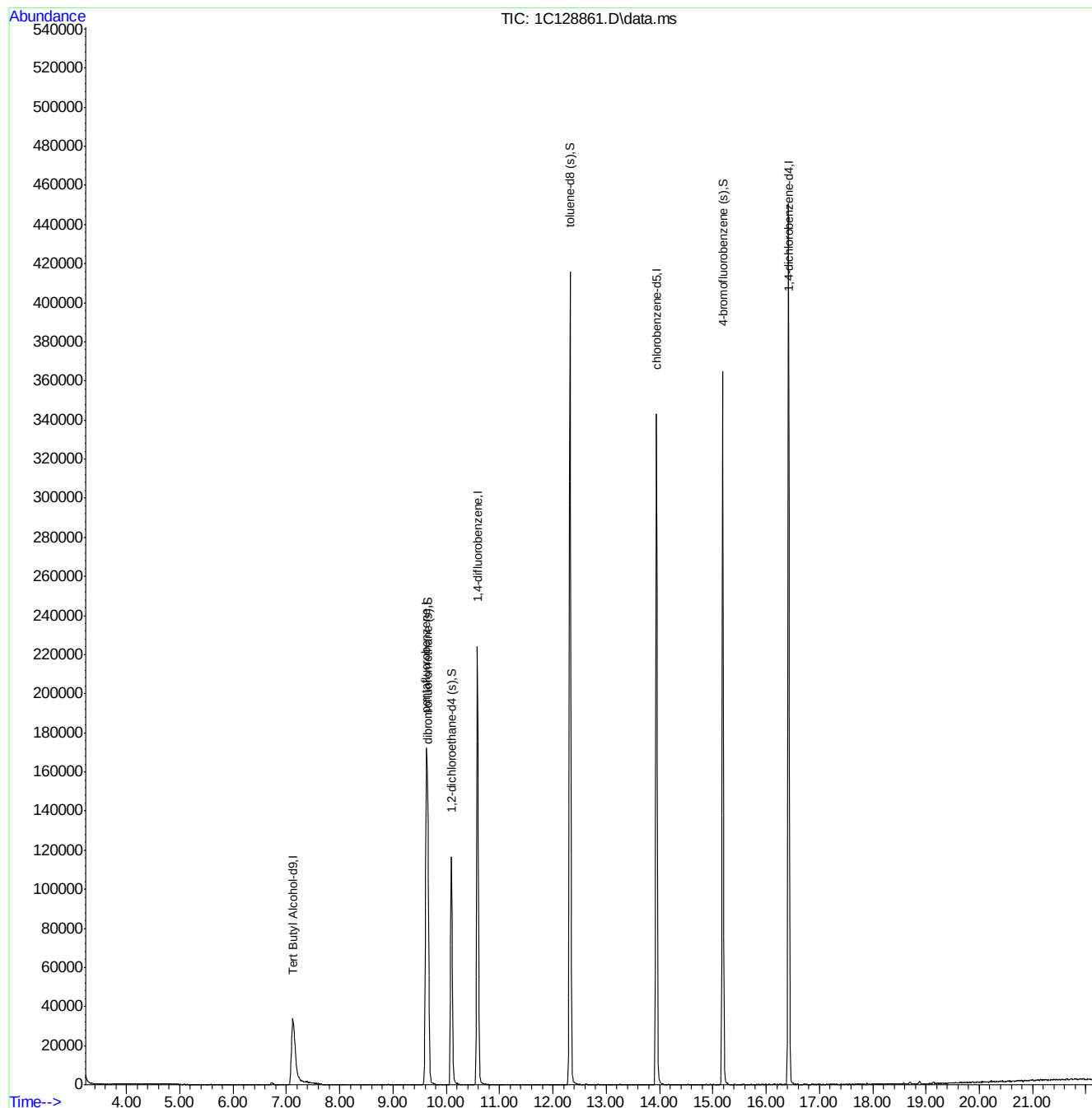
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1C core\v1c5745-5746\
Data File : 1C128861.D
Acq On : 2 Jun 2014 11:49 pm
Operator : mariceld
Sample : mb
Misc : MS68264,V1C5746,5,,,,,1
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jun 03 16:08:05 2014
Quant Method : C:\MSDCHEM\1\METHODS\M1C5716.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Tue May 13 12:33:26 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 3V11273.D
 Acq On : 29 May 2014 11:06 am
 Operator : thienn
 Sample : bs
 Misc : MS68177,V3V478,5,,,,,1
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 30 14:02:49 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M3V474.M
 Quant Title : SW-846 Method 8260
 QLast Update : Thu May 29 12:53:16 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	7.285	65	75435	500.00	ug/L	-0.02
5) pentafluorobenzene	9.781	168	154247	50.00	ug/L	0.00
49) 1,4-difluorobenzene	10.745	114	227922	50.00	ug/L	0.00
79) chlorobenzene-d5	13.964	117	204001	50.00	ug/L	0.00
93) 1,4-dichlorobenzene-d4	16.324	152	131543	50.00	ug/L	0.00
System Monitoring Compounds						
43) dibromofluoromethane (s)	9.828	113	101724	52.12	ug/L	0.00
Spiked Amount	50.000	Range	59 - 130	Recovery	=	104.24%
44) 1,2-dichloroethane-d4 (s)	10.273	65	85487	50.03	ug/L	0.00
Spiked Amount	50.000	Range	65 - 123	Recovery	=	100.06%
71) toluene-d8 (s)	12.418	98	324218	57.44	ug/L	0.00
Spiked Amount	50.000	Range	80 - 124	Recovery	=	114.88%
95) 4-bromofluorobenzene (s)	15.165	95	134010	58.10	ug/L	0.00
Spiked Amount	50.000	Range	71 - 132	Recovery	=	116.20%
Target Compounds						
2) 1,4-dioxane	11.505	88	28709	1493.12	ug/L	99
4) tertiary butyl alcohol	7.411	59	54672	270.58	ug/L	98
6) chlorodifluoromethane	3.541	51	148259	50.14	ug/L	97
7) dichlorodifluoromethane	3.531	85	237835	58.04	ug/L	99
8) chloromethane	3.856	50	204381	57.95	ug/L	99
9) vinyl chloride	4.123	62	219648	57.86	ug/L	99
10) bromomethane	4.800	94	137534	57.06	ug/L	98
11) chloroethane	4.983	64	71731	57.25	ug/L	99
12) trichlorofluoromethane	5.507	101	232088	55.53	ug/L	99
13) ethyl ether	5.958	74	41243	53.20	ug/L	98
14) 2-chloropropane	6.179	43	163308	54.52	ug/L	99
15) acrolein	6.273	56	110641	356.83	ug/L	99
16) 1,1-dichloroethene	6.420	96	105396	50.47	ug/L	95
17) acetone	6.530	43	23077	42.27	ug/L	100
18) allyl chloride	7.044	76	55710	58.35	ug/L	91
19) acetonitrile	7.059	40	69249	513.44	ug/L	# 88
20) iodomethane	6.734	142	228934	52.49	ug/L	98
21) iso-butyl alcohol	10.137	41	29336	496.33	ug/L	97
22) carbon disulfide	6.850	76	434131	56.34	ug/L	99
23) methylene chloride	7.274	84	118638	48.39	ug/L	98
24) 1-chloropropane	7.295	42	148743	44.57	ug/L	99
25) methyl acetate	7.054	74	10153	46.59	ug/L	97
26) methyl tert butyl ether	7.631	73	524382	104.41	ug/L	100
27) trans-1,2-dichloroethene	7.694	96	105661	47.81	ug/L	98
28) di-isopropyl ether	8.328	45	288789	54.73	ug/L	99
29) ethyl tert-butyl ether	8.858	59	284001	53.66	ug/L	99
30) 2-butanone	9.183	72	8262	48.06	ug/L	100
31) 1,1-dichloroethane	8.354	63	186265	55.04	ug/L	98
32) chloroprene	8.464	53	109448	49.02	ug/L	98
33) acrylonitrile	7.694	53	130769	262.96	ug/L	97
34) vinyl acetate	8.365	86	10585	55.10	ug/L	95
35) ethyl acetate	9.199	45	8118	47.86	ug/L	84

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 3V11273.D
 Acq On : 29 May 2014 11:06 am
 Operator : thienn
 Sample : bs
 Misc : MS68177,V3V478,5,,,,1
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 30 14:02:49 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M3V474.M
 Quant Title : SW-846 Method 8260
 QLast Update : Thu May 29 12:53:16 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
36) 2,2-dichloropropane	9.178	77	186541	54.48	ug/L	97
37) cis-1,2-dichloroethene	9.193	96	112271	44.56	ug/L	97
38) propionitrile	9.314	54	107627	490.01	ug/L	94
39) methyl acrylate	9.277	55	70225	48.88	ug/L #	98
40) bromochloromethane	9.539	128	53821	51.79	ug/L	95
41) tetrahydrofuran	9.566	42	22527	49.10	ug/L	98
42) chloroform	9.613	83	182723	49.71	ug/L	99
45) freon 113	6.399	151	99404	53.35	ug/L	98
46) methacrylonitrile	9.492	41	34568	48.50	ug/L	95
47) 1,1,1-trichloroethane	9.849	97	187626	54.84	ug/L	98
48) tert-amyl methyl ether	10.368	73	272169	51.47	ug/L	98
50) epichlorohydrin	12.066	57	31466	247.72	ug/L	98
51) n-butyl alcohol	10.929	56	131557	2571.24	ug/L	100
52) cyclohexane	9.906	84	164960	55.49	ug/L	96
53) carbon tetrachloride	10.058	117	171131	56.80	ug/L	99
54) 1,1-dichloropropene	10.043	75	123850	52.34	ug/L	99
55) hexane	8.019	57	403	0.21	ug/L #	59
56) ISOCTANE	10.305	57	327656	48.83	ug/L	95
57) benzene	10.326	78	380594	53.58	ug/L	99
58) heptane	10.504	57	58932	51.31	ug/L	98
59) isopropyl acetate	10.289	43	178169	53.14	ug/L	98
60) 1,2-dichloroethane	10.368	62	107430	53.92	ug/L	99
61) trichloroethene	11.086	95	98359	53.04	ug/L	97
63) 2-nitropropane	11.935	43	134604	56.77	ug/L	98
64) 2-chloroethyl vinyl ether	11.935	63	204921	314.65	ug/L	100
65) methyl methacrylate	11.280	41	83268	70.75	ug/L	89
66) 1,2-dichloropropane	11.374	63	94134	55.12	ug/L	98
67) methylcyclohexane	11.285	83	160611	52.51	ug/L	94
68) dibromomethane	11.542	93	57012	53.10	ug/L	98
69) bromodichloromethane	11.678	83	125487	55.25	ug/L	99
70) cis-1,3-dichloropropene	12.145	75	135945	53.82	ug/L	98
72) 4-methyl-2-pentanone	12.250	58	26766	51.02	ug/L	99
73) toluene	12.491	92	208792	50.36	ug/L	99
74) 3-methyl-1-butanol	12.297	70	43950	984.83	ug/L	99
75) trans-1,3-dichloropropene	12.722	75	112766	52.49	ug/L	96
76) ethyl methacrylate	12.711	69	80768	50.46	ug/L	99
77) 1,1,2-trichloroethane	12.937	83	62105	53.49	ug/L	99
78) 2-hexanone	13.115	58	23299	48.63	ug/L	98
80) tetrachloroethene	13.078	166	104414	55.16	ug/L	99
81) 1,3-dichloropropane	13.120	76	106971	55.84	ug/L	99
82) butyl acetate	13.188	56	39784	50.37	ug/L	97
83) dibromochloromethane	13.388	129	96909	55.27	ug/L	99
84) 1,2-dibromoethane	13.535	107	76352	55.77	ug/L	99
86) chlorobenzene	13.996	112	258060	56.12	ug/L	98
87) 1,1,1,2-tetrachloroethane	14.069	131	109621	58.19	ug/L	99
88) ethylbenzene	14.054	91	437343	54.58	ug/L	99
89) m,p-xylene	14.164	106	338334	107.73	ug/L	99
90) o-xylene	14.599	106	175474	57.53	ug/L	99
91) styrene	14.615	104	277265	59.56	ug/L	99
92) bromoform	14.898	173	70766	55.27	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 3V11273.D
 Acq On : 29 May 2014 11:06 am
 Operator : thienn
 Sample : bs
 Misc : MS68177,V3V478,5,,,,1
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 30 14:02:49 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M3V474.M
 Quant Title : SW-846 Method 8260
 QLast Update : Thu May 29 12:53:16 2014
 Response via : Initial Calibration

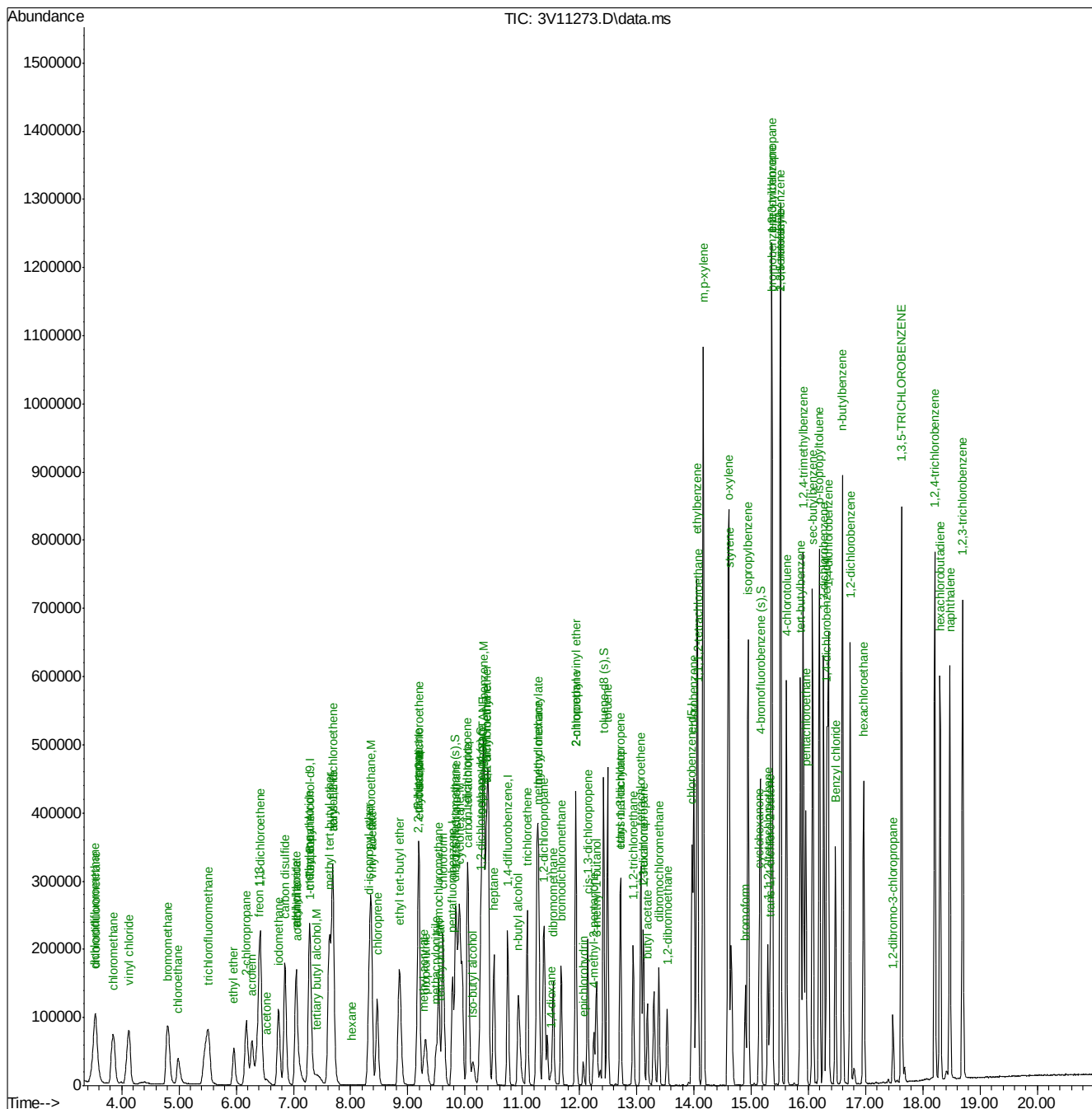
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94)	isopropylbenzene	14.945	105	474207	57.04	ug/L	99
96)	bromobenzene	15.359	156	128209	55.91	ug/L	100
97)	cyclohexanone	15.144	55	87683	271.33	ug/L	97
98)	1,1,2,2-tetrachloroethane	15.291	83	114727	53.42	ug/L	98
99)	trans-1,4-dichloro-2-b...	15.333	53	25840	53.87	ug/L	96
100)	1,2,3-trichloropropane	15.364	110	24201	52.33	ug/L	100
101)	n-propylbenzene	15.364	91	597159	59.56	ug/L	100
102)	2-chlorotoluene	15.516	126	123545	57.31	ug/L	99
103)	4-chlorotoluene	15.616	91	344817	55.49	ug/L	99
104)	1,3,5-trimethylbenzene	15.516	105	417199	57.87	ug/L	100
105)	tert-butylbenzene	15.862	119	330206	55.68	ug/L	99
106)	pentachloroethane	15.957	167	88838	57.49	ug/L	99
107)	1,2,4-trimethylbenzene	15.910	105	442469	58.03	ug/L	99
108)	sec-butylbenzene	16.072	105	564261	57.06	ug/L	99
109)	1,3-dichlorobenzene	16.266	146	262827	54.12	ug/L	99
110)	p-isopropyltoluene	16.193	119	481571	58.88	ug/L	100
111)	1,4-dichlorobenzene	16.350	146	264266	53.91	ug/L	100
112)	1,2-dichlorobenzene	16.733	146	263229	54.88	ug/L	100
113)	n-butylbenzene	16.596	92	276211	59.11	ug/L	100
114)	1,2-dibromo-3-chloropr...	17.477	75	24043	49.97	ug/L	97
115)	1,3,5-TRICHLOROBENZENE	17.629	180	275600	57.42	ug/L	99
116)	1,2,4-trichlorobenzene	18.211	180	251618	55.98	ug/L	99
117)	hexachlorobutadiene	18.300	225	131486	56.19	ug/L	100
118)	naphthalene	18.473	128	471414	52.63	ug/L	99
119)	1,2,3-trichlorobenzene	18.694	180	237619	56.55	ug/L	100
120)	hexachloroethane	16.969	119	98882	55.96	ug/L	99
121)	Benzyl chloride	16.471	91	247231	58.17	ug/L	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 3V11273.D
Acq On : 29 May 2014 11:06 am
Operator : thienn
Sample : bs
Misc : MS68177,V3V478,5,,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 30 14:02:49 2014
Quant Method : C:\MSDCHEM\1\METHODS\M3V474.M
Quant Title : SW-846 Method 8260
QLast Update : Thu May 29 12:53:16 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1C core\v1c5745-5746\
 Data File : 1C128862.D
 Acq On : 3 Jun 2014 12:17 am
 Operator : mariceld
 Sample : bs
 Misc : MS68178,V1C5746,5,,,,,1
 ALS Vial : 31 Sample Multiplier: 1

Quant Time: Jun 03 09:00:21 2014

Quant Method : C:\MSDCHEM\1\METHODS\M1C5716.M

Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM

QLast Update : Tue May 13 12:33:26 2014

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	7.137	65	126487	500.00	ug/L	0.01
4) pentafluorobenzene	9.627	168	148773	50.00	ug/L	0.00
58) 1,4-difluorobenzene	10.584	114	224372	50.00	ug/L	0.00
88) chlorobenzene-d5	13.941	117	219711	50.00	ug/L	0.00
103) 1,4-dichlorobenzene-d4	16.421	152	139153	50.00	ug/L	0.00
System Monitoring Compounds						
52) dibromofluoromethane (s)	9.653	113	88599	50.70	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery =	101.40%		
53) 1,2-dichloroethane-d4 (s)	10.097	65	99966	49.37	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery =	98.74%		
80) toluene-d8 (s)	12.320	98	325987	51.86	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery =	103.72%		
105) 4-bromofluorobenzene (s)	15.186	95	130630	47.69	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery =	95.38%		
Target Compounds						
2) tertiary butyl alcohol	7.262	59	75097	242.27	ug/L	100
3) 1,4-dioxane	11.358	88	27551	1136.27	ug/L	92
9) chlorodifluoromethane	3.497	51	69867	44.37	ug/L	99
10) dichlorodifluoromethane	3.481	85	97718	39.19	ug/L	98
12) chloromethane	3.800	50	137885	41.88	ug/L	98
13) vinyl chloride	4.056	62	131269	45.34	ug/L	97
14) bromomethane	4.710	94	82430	46.65	ug/L	99
15) chloroethane	4.904	64	69724	56.52	ug/L	98
19) trichlorofluoromethane	5.416	101	143345	50.77	ug/L	99
20) ethyl ether	5.861	74	47046	48.35	ug/L	99
22) acrolein	6.133	56	205269	414.32	ug/L	100
23) 1,1-dichloroethene	6.305	96	80513	49.07	ug/L	99
24) acetone	6.405	43	36893	46.64	ug/L	96
25) acetonitrile	6.886	40	101675	429.67	ug/L	93
26) allyl chloride	6.907	76	48303	55.76	ug/L #	91
27) iodomethane	6.603	142	160333	49.07	ug/L	100
28) carbon disulfide	6.724	76	284533	45.63	ug/L	99
29) 2-CHLOROPROPANE	6.059	43	165530	48.01	ug/L	97
30) methylene chloride	7.121	84	93354	48.64	ug/L	94
31) methyl acetate	6.912	43	81243	44.85	ug/L	99
32) methyl tert butyl ether	7.493	73	541876	94.76	ug/L	97
33) trans-1,2-dichloroethene	7.540	96	82773	49.49	ug/L	98
34) 1-CHLOROPROPANE	7.147	42	170158	48.07	ug/L #	93
35) di-isopropyl ether	8.193	45	319544	49.47	ug/L	97
36) 2-butanone	9.015	72	12832	50.52	ug/L #	63
37) 1,1-dichloroethane	8.193	63	169152	49.51	ug/L	99
38) chloroprene	8.314	53	117064	46.52	ug/L	98
39) acrylonitrile	7.508	53	210239	242.16	ug/L	99
40) vinyl acetate	8.209	86	16216	53.47	ug/L	97
41) ethyl tert-butyl ether	8.716	59	292307	49.05	ug/L	98
42) ethyl acetate	9.041	45	17158	48.26	ug/L	97
43) 2,2-dichloropropane	9.015	77	107018	40.04	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1C core\v1c5745-5746\
 Data File : 1C128862.D
 Acq On : 3 Jun 2014 12:17 am
 Operator : mariceld
 Sample : bs
 Misc : MS68178,V1C5746,5,,,,,1
 ALS Vial : 31 Sample Multiplier: 1

Quant Time: Jun 03 09:00:21 2014

Quant Method : C:\MSDCHEM\1\METHODS\M1C5716.M

Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM

QLast Update : Tue May 13 12:33:26 2014

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) cis-1,2-dichloroethene	9.025	96	93634	50.49	ug/L	94
45) propionitrile	9.114	54	174275	487.41	ug/L	98
46) methylacrylate	9.114	55	120310	48.16	ug/L	96
47) bromochloromethane	9.360	128	46972	49.61	ug/L	98
48) tetrahydrofuran	9.407	72	14522	46.81	ug/L	96
49) chloroform	9.438	85	101287	51.27	ug/L	97
50) T-BUTYL FORMATE	9.464	59	86882	47.81	ug/L	98
51) isobutyl alcohol	9.966	43	65399	452.92	ug/L	96
54) freon 113	6.290	151	64938	52.64	ug/L	98
55) methacrylonitrile	9.313	67	41565	48.12	ug/L	96
56) 1,1,1-trichloroethane	9.689	97	136314	51.74	ug/L	98
57) Cyclohexane	9.752	84	126165	45.95	ug/L	93
59) ISO-OCTANE	10.176	57	280487	38.57	ug/L	91
60) epichlorohydrin	11.928	57	61301	230.32	ug/L	98
61) n-butyl alcohol	10.761	56	205581	2274.84	ug/L	99
62) carbon tetrachloride	9.904	117	123873	52.04	ug/L	99
63) 1,1-dichloropropene	9.888	75	112763	48.41	ug/L	99
64) hexane	7.890	57	98514	48.31	ug/L	98
65) benzene	10.160	78	351940	49.67	ug/L	98
66) tert-amyl methyl ether	10.218	73	281866	48.29	ug/L	99
67) heptane	10.369	57	49194	38.23	ug/L	97
68) isopropyl acetate	10.129	43	249105	46.57	ug/L	99
69) 1,2-dichloroethane	10.191	62	121030	52.04	ug/L	98
70) trichloroethene	10.934	95	88021	51.86	ug/L	97
71) 2-nitropropane	11.771	41	42616	50.46	ug/L	99
72) 2-chloroethyl vinyl ether	11.802	63	338740	273.26	ug/L	99
73) methyl methacrylate	11.248	100	25233	51.17	ug/L	91
74) 1,2-dichloropropane	11.211	63	98193	51.20	ug/L	99
75) dibromomethane	11.379	93	58209	50.50	ug/L	99
76) methylcyclohexane	11.149	83	130643	45.54	ug/L	93
77) bromodichloromethane	11.530	83	123776	51.74	ug/L	99
79) cis-1,3-dichloropropene	12.022	75	141913	47.49	ug/L	99
81) 4-methyl-2-pentanone	12.132	58	48123	48.56	ug/L	98
82) toluene	12.399	92	213203	50.51	ug/L	98
83) 3-methyl-1-butanol	12.184	55	135244	913.61	ug/L	97
84) trans-1,3-dichloropropene	12.629	75	128897	45.07	ug/L	96
85) ethyl methacrylate	12.634	69	127868	48.29	ug/L	98
86) 1,1,2-trichloroethane	12.854	83	72321	49.29	ug/L	99
87) 2-hexanone	13.052	58	46194	50.08	ug/L	97
89) tetrachloroethene	13.021	164	79214	50.00	ug/L	96
90) 1,3-dichloropropane	13.047	76	138375	47.23	ug/L	98
91) butyl acetate	13.141	56	71217	43.49	ug/L	94
92) 3,3-DIMETHYL-1-BUTANOL	13.251	57	149689	421.18	ug/L	98
93) dibromochloromethane	13.324	129	99899	45.91	ug/L	99
94) 1,2-dibromoethane	13.476	107	90175	48.06	ug/L	99
95) chlorobenzene	13.973	112	246387	48.31	ug/L	99
96) 1,1,1,2-tetrachloroethane	14.046	131	99718	47.88	ug/L	98
97) ethylbenzene	14.041	91	428354	48.11	ug/L	100
98) m,p-xylene	14.156	106	322630	96.69	ug/L	100
99) o-xylene	14.600	106	164681	47.74	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1C core\v1c5745-5746\
 Data File : 1C128862.D
 Acq On : 3 Jun 2014 12:17 am
 Operator : mariceld
 Sample : bs
 Misc : MS68178,V1C5746,5,,,1
 ALS Vial : 31 Sample Multiplier: 1

Quant Time: Jun 03 09:00:21 2014

Quant Method : C:\MSDCHEM\1\METHODS\M1C5716.M

Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM

QLast Update : Tue May 13 12:33:26 2014

Response via : Initial Calibration

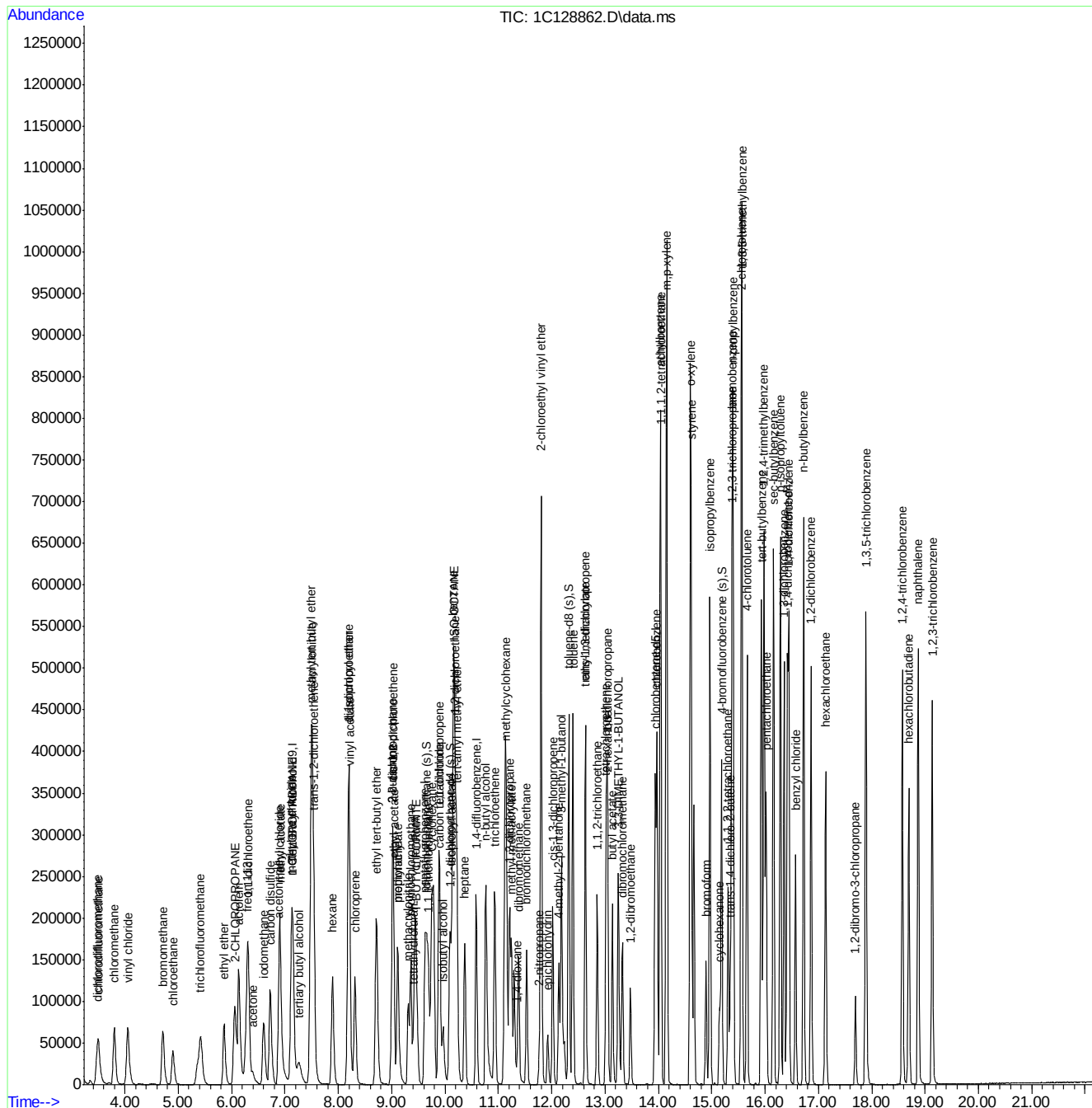
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
100) styrene	14.616	104	281248	49.85	ug/L	97
102) bromoform	14.893	173	82073	45.82	ug/L	98
104) isopropylbenzene	14.967	105	442348	46.59	ug/L	100
106) cyclohexanone	15.150	55	48163	252.27	ug/L	99
107) bromobenzene	15.385	156	125215	48.89	ug/L	94
108) 1,1,2,2-tetrachloroethane	15.307	83	139765	41.21	ug/L	99
109) trans-1,4-dichloro-2-b...	15.348	53	32211	34.61	ug/L	89
110) 1,2,3-trichloropropane	15.380	110	34305	43.24	ug/L	99
111) n-propylbenzene	15.401	91	537672	48.55	ug/L	99
112) 2-chlorotoluene	15.558	126	112730	47.64	ug/L	97
113) 4-chlorotoluene	15.662	91	319986	46.10	ug/L	99
114) 1,3,5-trimethylbenzene	15.568	105	389717	47.25	ug/L	100
115) tert-butylbenzene	15.934	119	337468	48.03	ug/L	100
116) pentachloroethane	16.023	167	86500	49.28	ug/L	99
117) 1,2,4-trimethylbenzene	15.981	105	404903	49.34	ug/L	98
118) sec-butylbenzene	16.159	105	518155	47.18	ug/L	99
119) 1,3-dichlorobenzene	16.358	146	239104	46.24	ug/L	99
120) p-isopropyltoluene	16.290	119	439653	47.82	ug/L	100
122) 1,4-dichlorobenzene	16.447	146	245237	45.85	ug/L	98
123) benzyl chloride	16.572	91	223081	33.49	ug/L	100
124) 1,2-dichlorobenzene	16.865	146	244657	46.92	ug/L	99
125) n-butylbenzene	16.724	92	227536	47.41	ug/L	99
126) 1,2-dibromo-3-chloropr...	17.692	75	30097	43.84	ug/L	98
127) 1,3,5-trichlorobenzene	17.890	180	220124	49.58	ug/L	100
128) 1,2,4-trichlorobenzene	18.575	180	195200	48.07	ug/L	99
129) hexachlorobutadiene	18.696	225	101478	47.43	ug/L	97
130) naphthalene	18.874	128	474411	44.50	ug/L	100
131) 1,2,3-trichlorobenzene	19.135	180	184427	47.45	ug/L	99
132) hexachloroethane	17.137	201	90087	52.19	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

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Data Path : C:\msdchem\1\DATA\1C core\v1c5745-5746\
Data File : 1C128862.D
Acq On    : 3 Jun 2014 12:17 am
Operator  : mariceld
Sample    : bs
Misc      : MS68178,V1C5746,5,,,,1
ALS Vial  : 31 Sample Multiplier: 1
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Quant Time: Jun 03 09:00:21 2014
Quant Method : C:\MSDCHEM\1\METHODS\M1C5716.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Tue May 13 12:33:26 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 3V11282.D
 Acq On : 29 May 2014 3:07 pm
 Operator : thienn
 Sample : jB67809-1ms
 Misc : MS68177,V3V478,5.4,,,,,1
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 30 14:06:36 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M3V474.M
 Quant Title : SW-846 Method 8260
 QLast Update : Thu May 29 12:53:16 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	7.290	65	86486	500.00	ug/L	#-0.02
5) pentafluorobenzene	9.786	168	163464	50.00	ug/L	0.00
49) 1,4-difluorobenzene	10.750	114	239433	50.00	ug/L	0.00
79) chlorobenzene-d5	13.964	117	218334	50.00	ug/L	0.00
93) 1,4-dichlorobenzene-d4	16.324	152	142936	50.00	ug/L	0.00
System Monitoring Compounds						
43) dibromofluoromethane (s)	9.833	113	109747	53.06	ug/L	0.00
Spiked Amount 50.000	Range 59 - 130		Recovery =	106.12%		
44) 1,2-dichloroethane-d4 (s)	10.279	65	91992	50.80	ug/L	0.00
Spiked Amount 50.000	Range 65 - 123		Recovery =	101.60%		
71) toluene-d8 (s)	12.418	98	346690	58.46	ug/L	0.00
Spiked Amount 50.000	Range 80 - 124		Recovery =	116.92%		
95) 4-bromofluorobenzene (s)	15.165	95	144750	57.76	ug/L	0.00
Spiked Amount 50.000	Range 71 - 132		Recovery =	115.52%		
Target Compounds						
2) 1,4-dioxane	11.505	88	28228	1280.52	ug/L	Qvalue # 98
4) tertiary butyl alcohol	7.437	59	56878	245.52	ug/L	97
6) chlorodifluoromethane	3.552	51	144922	45.83	ug/L	94
7) dichlorodifluoromethane	3.531	85	107911	24.85	ug/L	98
8) chloromethane	3.856	50	167666	44.86	ug/L	99
9) vinyl chloride	4.129	62	174092	43.27	ug/L	99
10) bromomethane	4.810	94	113598	44.47	ug/L	97
11) chloroethane	4.994	64	60738	45.74	ug/L	95
12) trichlorofluoromethane	5.513	101	151501	34.20	ug/L	99
13) ethyl ether	5.969	74	39829	48.48	ug/L	97
14) 2-chloropropane	6.179	43	143555	45.22	ug/L	99
15) acrolein	6.283	56	106832	325.12	ug/L	98
16) 1,1-dichloroethene	6.430	96	94928	42.89	ug/L	97
17) acetone	6.535	43	24445	42.25	ug/L	96
18) allyl chloride	7.049	76	40651	40.18	ug/L	87
19) acetonitrile	7.059	40	62945	440.38	ug/L	99
20) iodomethane	6.745	142	224064	48.48	ug/L	99
21) iso-butyl alcohol	10.148	41	27279	435.51	ug/L	98
22) carbon disulfide	6.860	76	390007	47.76	ug/L	100
23) methylene chloride	7.285	84	117828	45.35	ug/L	97
24) 1-chloropropane	7.301	42	143061	40.45	ug/L	99
25) methyl acetate	7.049	74	11166	48.35	ug/L	97
26) methyl tert butyl ether	7.641	73	264480	49.69	ug/L	100
27) trans-1,2-dichloroethene	7.694	96	103594	44.24	ug/L	99
28) di-isopropyl ether	8.333	45	270263	48.33	ug/L	99
29) ethyl tert-butyl ether	8.858	59	273186	48.70	ug/L	98
30) 2-butanone	9.188	72	8009	43.96	ug/L	99
31) 1,1-dichloroethane	8.360	63	178414	49.75	ug/L	98
32) chloroprene	8.470	53	105856	44.73	ug/L	99
33) acrylonitrile	7.699	53	121718	230.96	ug/L	98
34) vinyl acetate	8.365	86	8013	39.36	ug/L	71
35) ethyl acetate	9.204	45	8143	45.30	ug/L	90

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 3V11282.D
 Acq On : 29 May 2014 3:07 pm
 Operator : thienn
 Sample : jB67809-1ms
 Misc : MS68177,V3V478,5.4,,,,1
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 30 14:06:36 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M3V474.M
 Quant Title : SW-846 Method 8260
 QLast Update : Thu May 29 12:53:16 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
36) 2,2-dichloropropane	9.183	77	123688	34.09	ug/L	99
37) cis-1,2-dichloroethene	9.199	96	112068	41.97	ug/L	98
38) propionitrile	9.319	54	103176	443.26	ug/L	96
39) methyl acrylate	9.282	55	68662	45.10	ug/L #	99
40) bromochloromethane	9.539	128	53210	48.32	ug/L	99
41) tetrahydrofuran	9.566	42	21526	44.28	ug/L	98
42) chloroform	9.613	83	178523	45.83	ug/L	99
45) freon 113	6.404	151	50231	25.44	ug/L	94
46) methacrylonitrile	9.497	41	33654	44.56	ug/L	100
47) 1,1,1-trichloroethane	9.854	97	173017	47.72	ug/L	100
48) tert-amyl methyl ether	10.368	73	266298	47.52	ug/L	97
50) epichlorohydrin	12.066	57	27000	202.34	ug/L	97
51) n-butyl alcohol	10.934	56	129976	2418.21	ug/L	98
52) cyclohexane	9.906	84	100997	32.34	ug/L	87
53) carbon tetrachloride	10.064	117	149547	47.25	ug/L	99
54) 1,1-dichloropropene	10.043	75	116583	46.90	ug/L	98
55) hexane	8.024	57	36968	18.69	ug/L	99
56) ISOCTANE	10.310	57	116493	16.53	ug/L	99
57) benzene	10.331	78	362213	48.54	ug/L	100
58) heptane	10.509	57	20919	17.34	ug/L	96
59) isopropyl acetate	10.289	43	126827	36.01	ug/L	89
60) 1,2-dichloroethane	10.373	62	104752	50.05	ug/L	99
61) trichloroethene	11.086	95	93727	48.11	ug/L	100
63) 2-nitropropane	11.935	43	116425	46.74	ug/L	99
64) 2-chloroethyl vinyl ether	11.935	63	175737	256.87	ug/L	100
65) methyl methacrylate	11.285	41	30380	24.57	ug/L	95
66) 1,2-dichloropropane	11.374	63	90128	50.23	ug/L	100
67) methylcyclohexane	11.285	83	77941	24.26	ug/L	98
68) dibromomethane	11.542	93	56114	49.75	ug/L	97
69) bromodichloromethane	11.684	83	120737	50.60	ug/L	98
70) cis-1,3-dichloropropene	12.145	75	124997	47.11	ug/L	99
72) 4-methyl-2-pentanone	12.250	58	27301	49.54	ug/L	99
73) toluene	12.491	92	199736	45.86	ug/L	99
74) 3-methyl-1-butanol	12.297	70	45378	967.95	ug/L	98
75) trans-1,3-dichloropropene	12.722	75	108826	48.22	ug/L	99
76) ethyl methacrylate	12.711	69	81933	48.73	ug/L	98
77) 1,1,2-trichloroethane	12.937	83	61339	50.29	ug/L	100
78) 2-hexanone	13.115	58	23827	47.34	ug/L	95
80) tetrachloroethene	13.078	166	95642	47.21	ug/L	99
81) 1,3-dichloropropane	13.120	76	107687	52.53	ug/L	98
82) butyl acetate	13.188	56	39624	46.87	ug/L	97
83) dibromochloromethane	13.388	129	97126	51.76	ug/L	98
84) 1,2-dibromoethane	13.535	107	76756	52.38	ug/L	99
86) chlorobenzene	14.001	112	246879	50.17	ug/L	100
87) 1,1,1,2-tetrachloroethane	14.069	131	106272	52.71	ug/L	99
88) ethylbenzene	14.054	91	414400	48.32	ug/L	99
89) m,p-xylene	14.164	106	318085	94.63	ug/L	99
90) o-xylene	14.599	106	168116	51.50	ug/L	96
91) styrene	14.615	104	265684	53.32	ug/L	100
92) bromoform	14.898	173	72070	52.59	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 3V11282.D
 Acq On : 29 May 2014 3:07 pm
 Operator : thienn
 Sample : jB67809-1ms
 Misc : MS68177,V3V478,5.4,,,1
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 30 14:06:36 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M3V474.M
 Quant Title : SW-846 Method 8260
 QLast Update : Thu May 29 12:53:16 2014
 Response via : Initial Calibration

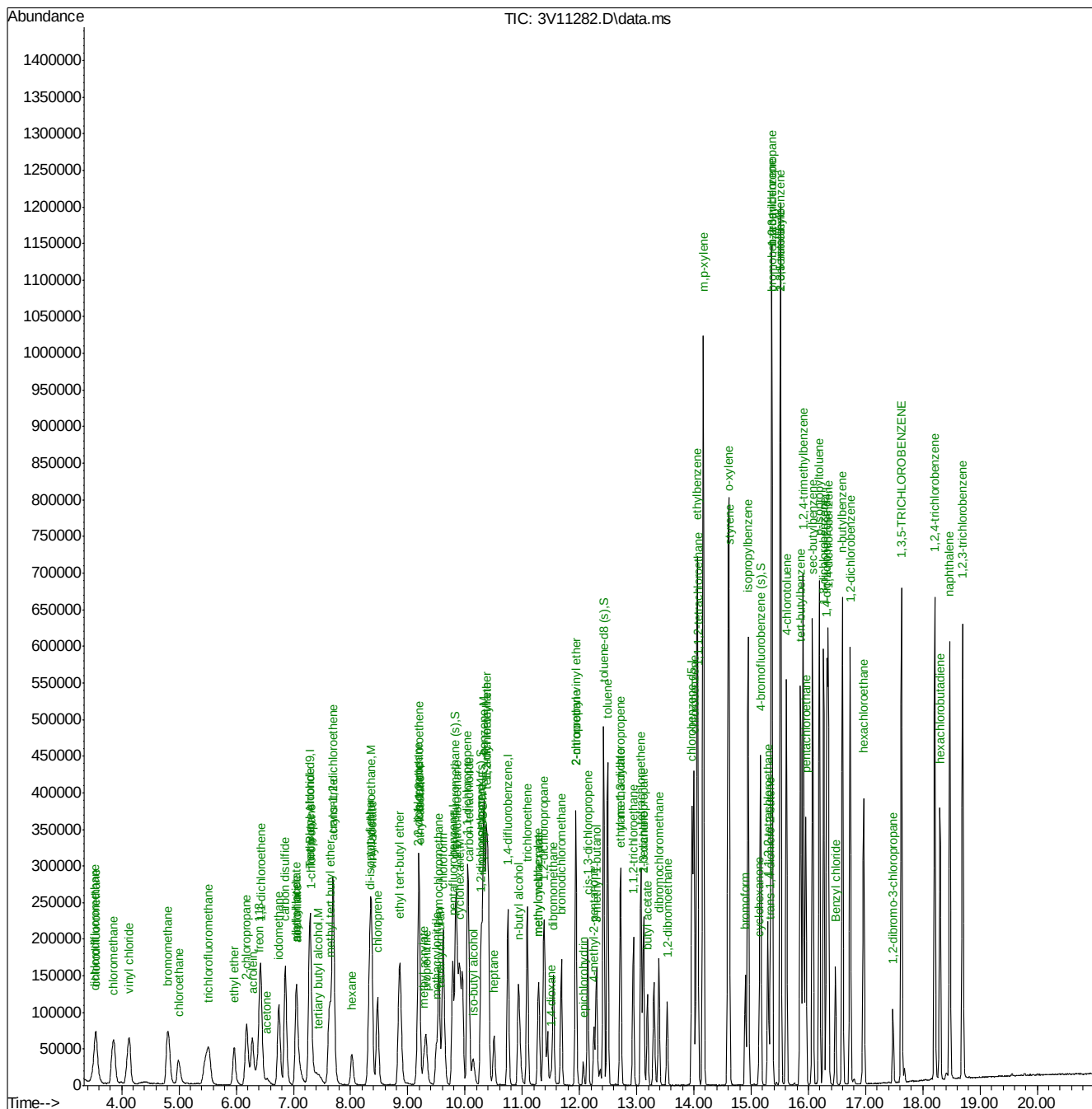
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94)	isopropylbenzene	14.945	105	438344	48.52	ug/L	99
96)	bromobenzene	15.359	156	124113	49.81	ug/L	97
97)	cyclohexanone	15.144	55	34584	98.49	ug/L	97
98)	1,1,2,2-tetrachloroethane	15.291	83	120022	51.43	ug/L	100
99)	trans-1,4-dichloro-2-b...	15.333	53	22470	43.11	ug/L	98
100)	1,2,3-trichloropropane	15.364	110	25522	50.79	ug/L	99
101)	n-propylbenzene	15.364	91	514431	47.22	ug/L	100
102)	2-chlorotoluene	15.511	126	115268	49.20	ug/L	97
103)	4-chlorotoluene	15.616	91	322485	47.76	ug/L	100
104)	1,3,5-trimethylbenzene	15.516	105	383784	48.99	ug/L	100
105)	tert-butylbenzene	15.862	119	297281	46.13	ug/L	98
106)	pentachloroethane	15.957	167	79439	47.31	ug/L	97
107)	1,2,4-trimethylbenzene	15.910	105	395454	47.73	ug/L	99
108)	sec-butylbenzene	16.072	105	485382	45.17	ug/L	99
109)	1,3-dichlorobenzene	16.266	146	246726	46.76	ug/L	98
110)	p-isopropyltoluene	16.193	119	413245	46.50	ug/L	99
111)	1,4-dichlorobenzene	16.350	146	245934	46.17	ug/L	99
112)	1,2-dichlorobenzene	16.733	146	250989	48.16	ug/L	99
113)	n-butylbenzene	16.596	92	212937	41.94	ug/L	100
114)	1,2-dibromo-3-chloropr...	17.477	75	24933	47.69	ug/L	98
115)	1,3,5-TRICHLOROBENZENE	17.629	180	220397	42.26	ug/L	100
116)	1,2,4-trichlorobenzene	18.206	180	208984	42.79	ug/L	99
117)	hexachlorobutadiene	18.300	225	84489	33.23	ug/L	99
118)	naphthalene	18.468	128	467615	48.04	ug/L	100
119)	1,2,3-trichlorobenzene	18.694	180	205181	44.94	ug/L	99
120)	hexachloroethane	16.963	119	89449	46.58	ug/L	99
121)	Benzyl chloride	16.471	91	113851	24.65	ug/L	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 3V11282.D
Acq On : 29 May 2014 3:07 pm
Operator : thienn
Sample : jb67809-1ms
Misc : MS68177,V3V478,5.4,,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 30 14:06:36 2014
Quant Method : C:\MSDCHEM\1\METHODS\M3V474.M
Quant Title : SW-846 Method 8260
QLast Update : Thu May 29 12:53:16 2014
Response via : Initial Calibration



7.4.1



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 3V11283.D
 Acq On : 29 May 2014 3:33 pm
 Operator : thienn
 Sample : jB67809-1msd
 Misc : MS68177,V3V478,5.4,,,,,1
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 30 14:07:03 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M3V474.M
 Quant Title : SW-846 Method 8260
 QLast Update : Thu May 29 12:53:16 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	7.295	65	76232	500.00	ug/L	-0.01
5) pentafluorobenzene	9.786	168	158845	50.00	ug/L	0.00
49) 1,4-difluorobenzene	10.750	114	234367	50.00	ug/L	0.00
79) chlorobenzene-d5	13.970	117	211188	50.00	ug/L	0.00
93) 1,4-dichlorobenzene-d4	16.324	152	134972	50.00	ug/L	0.00
System Monitoring Compounds						
43) dibromofluoromethane (s)	9.833	113	106374	52.92	ug/L	0.00
Spiked Amount	50.000	Range	59 - 130	Recovery	=	105.84%
44) 1,2-dichloroethane-d4 (s)	10.278	65	88139	50.09	ug/L	0.00
Spiked Amount	50.000	Range	65 - 123	Recovery	=	100.18%
71) toluene-d8 (s)	12.418	98	336418	57.96	ug/L	0.00
Spiked Amount	50.000	Range	80 - 124	Recovery	=	115.92%
95) 4-bromofluorobenzene (s)	15.165	95	137633	58.16	ug/L	0.00
Spiked Amount	50.000	Range	71 - 132	Recovery	=	116.32%
Target Compounds						
2) 1,4-dioxane	11.511	88	29084	1496.81	ug/L	97
4) tertiary butyl alcohol	7.442	59	54989	269.30	ug/L	96
6) chlorodifluoromethane	3.557	51	151452	49.70	ug/L	94
7) dichlorodifluoromethane	3.536	85	112844	26.74	ug/L	100
8) chloromethane	3.866	50	181359	49.93	ug/L	100
9) vinyl chloride	4.128	62	187257	47.90	ug/L	99
10) bromomethane	4.815	94	118730	47.83	ug/L	98
11) chloroethane	5.004	64	63495	49.21	ug/L	99
12) trichlorofluoromethane	5.513	101	157404	36.57	ug/L	100
13) ethyl ether	5.969	74	41298	51.72	ug/L	97
14) 2-chloropropane	6.184	43	153576	49.79	ug/L	99
15) acrolein	6.283	56	107552	336.83	ug/L	97
16) 1,1-dichloroethene	6.435	96	99558	46.29	ug/L	94
17) acetone	6.551	43	24130	42.92	ug/L	91
18) allyl chloride	7.054	76	43333	44.08	ug/L	92
19) acetonitrile	7.065	40	63946	460.39	ug/L	98
20) iodomethane	6.745	142	234394	52.19	ug/L	99
21) iso-butyl alcohol	10.147	41	26908	442.08	ug/L	98
22) carbon disulfide	6.860	76	407326	51.33	ug/L	100
23) methylene chloride	7.285	84	122629	48.57	ug/L	98
24) 1-chloropropane	7.306	42	150154	43.69	ug/L	99
25) methyl acetate	7.065	74	11939	53.20	ug/L	96
26) methyl tert butyl ether	7.641	73	270167	52.23	ug/L	99
27) trans-1,2-dichloroethene	7.699	96	107969	47.44	ug/L	98
28) di-isopropyl ether	8.333	45	284623	52.37	ug/L	99
29) ethyl tert-butyl ether	8.863	59	287430	52.73	ug/L	99
30) 2-butanone	9.183	72	8004	45.21	ug/L	94
31) 1,1-dichloroethane	8.365	63	187468	53.79	ug/L	99
32) chloroprene	8.470	53	110836	48.20	ug/L	99
33) acrylonitrile	7.699	53	123151	240.47	ug/L	97
34) vinyl acetate	8.375	86	7038	35.57	ug/L	100
35) ethyl acetate	9.204	45	8209	46.99	ug/L	84

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 3V11283.D
 Acq On : 29 May 2014 3:33 pm
 Operator : thienn
 Sample : jB67809-1msd
 Misc : MS68177,V3V478,5.4,,,,1
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 30 14:07:03 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M3V474.M
 Quant Title : SW-846 Method 8260
 QLast Update : Thu May 29 12:53:16 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
36) 2,2-dichloropropane	9.188	77	129081	36.61	ug/L	99
37) cis-1,2-dichloroethene	9.198	96	117514	45.29	ug/L	98
38) propionitrile	9.319	54	105176	464.99	ug/L	97
39) methyl acrylate	9.282	55	70778	47.84	ug/L #	98
40) bromochloromethane	9.544	128	55589	51.94	ug/L	96
41) tetrahydrofuran	9.571	42	21804	46.15	ug/L	99
42) chloroform	9.613	83	187712	49.59	ug/L	99
45) freon 113	6.409	151	51385	26.78	ug/L	96
46) methacrylonitrile	9.497	41	35684	48.62	ug/L	93
47) 1,1,1-trichloroethane	9.854	97	181411	51.49	ug/L	98
48) tert-amyl methyl ether	10.373	73	277720	51.00	ug/L	96
50) epichlorohydrin	12.066	57	26996	206.68	ug/L	97
51) n-butyl alcohol	10.934	56	130634	2482.99	ug/L	100
52) cyclohexane	9.906	84	106775	34.93	ug/L	91
53) carbon tetrachloride	10.064	117	156330	50.46	ug/L	98
54) 1,1-dichloropropene	10.048	75	122111	50.18	ug/L	98
55) hexane	8.029	57	38084	19.67	ug/L	96
56) ISOCTANE	10.310	57	118670	17.20	ug/L	99
57) benzene	10.331	78	384863	52.69	ug/L	99
58) heptane	10.509	57	20968	17.75	ug/L	96
59) isopropyl acetate	10.294	43	132610	38.46	ug/L	91
60) 1,2-dichloroethane	10.373	62	110260	53.82	ug/L	99
61) trichloroethene	11.091	95	99200	52.02	ug/L	99
63) 2-nitropropane	11.935	43	120960	49.61	ug/L	99
64) 2-chloroethyl vinyl ether	11.935	63	179464	267.98	ug/L	99
65) methyl methacrylate	11.285	41	31867	26.33	ug/L	99
66) 1,2-dichloropropane	11.374	63	95682	54.48	ug/L	97
67) methylcyclohexane	11.285	83	81076	25.78	ug/L	99
68) dibromomethane	11.542	93	58732	53.20	ug/L	97
69) bromodichloromethane	11.684	83	126918	54.34	ug/L	98
70) cis-1,3-dichloropropene	12.145	75	130609	50.29	ug/L	99
72) 4-methyl-2-pentanone	12.250	58	27050	50.14	ug/L	99
73) toluene	12.491	92	210749	49.43	ug/L	99
74) 3-methyl-1-butanol	12.297	70	45540	992.40	ug/L	97
75) trans-1,3-dichloropropene	12.722	75	112638	50.99	ug/L	99
76) ethyl methacrylate	12.711	69	83057	50.47	ug/L	99
77) 1,1,2-trichloroethane	12.942	83	63322	53.04	ug/L	99
78) 2-hexanone	13.115	58	23206	47.10	ug/L	100
80) tetrachloroethene	13.078	166	100772	51.42	ug/L	99
81) 1,3-dichloropropane	13.120	76	109223	55.08	ug/L	100
82) butyl acetate	13.188	56	37861	46.30	ug/L	93
83) dibromochloromethane	13.388	129	98746	54.40	ug/L	98
84) 1,2-dibromoethane	13.534	107	78595	55.45	ug/L	100
86) chlorobenzene	14.001	112	256602	53.91	ug/L	100
87) 1,1,1,2-tetrachloroethane	14.069	131	110235	56.52	ug/L	100
88) ethylbenzene	14.053	91	428662	51.68	ug/L	100
89) m,p-xylene	14.164	106	329194	101.25	ug/L	98
90) o-xylene	14.599	106	175463	55.57	ug/L	99
91) styrene	14.614	104	274691	56.99	ug/L	99
92) bromoform	14.898	173	71787	54.16	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 3V11283.D
 Acq On : 29 May 2014 3:33 pm
 Operator : thienn
 Sample : jB67809-1msd
 Misc : MS68177,V3V478,5.4,,,1
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 30 14:07:03 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M3V474.M
 Quant Title : SW-846 Method 8260
 QLast Update : Thu May 29 12:53:16 2014
 Response via : Initial Calibration

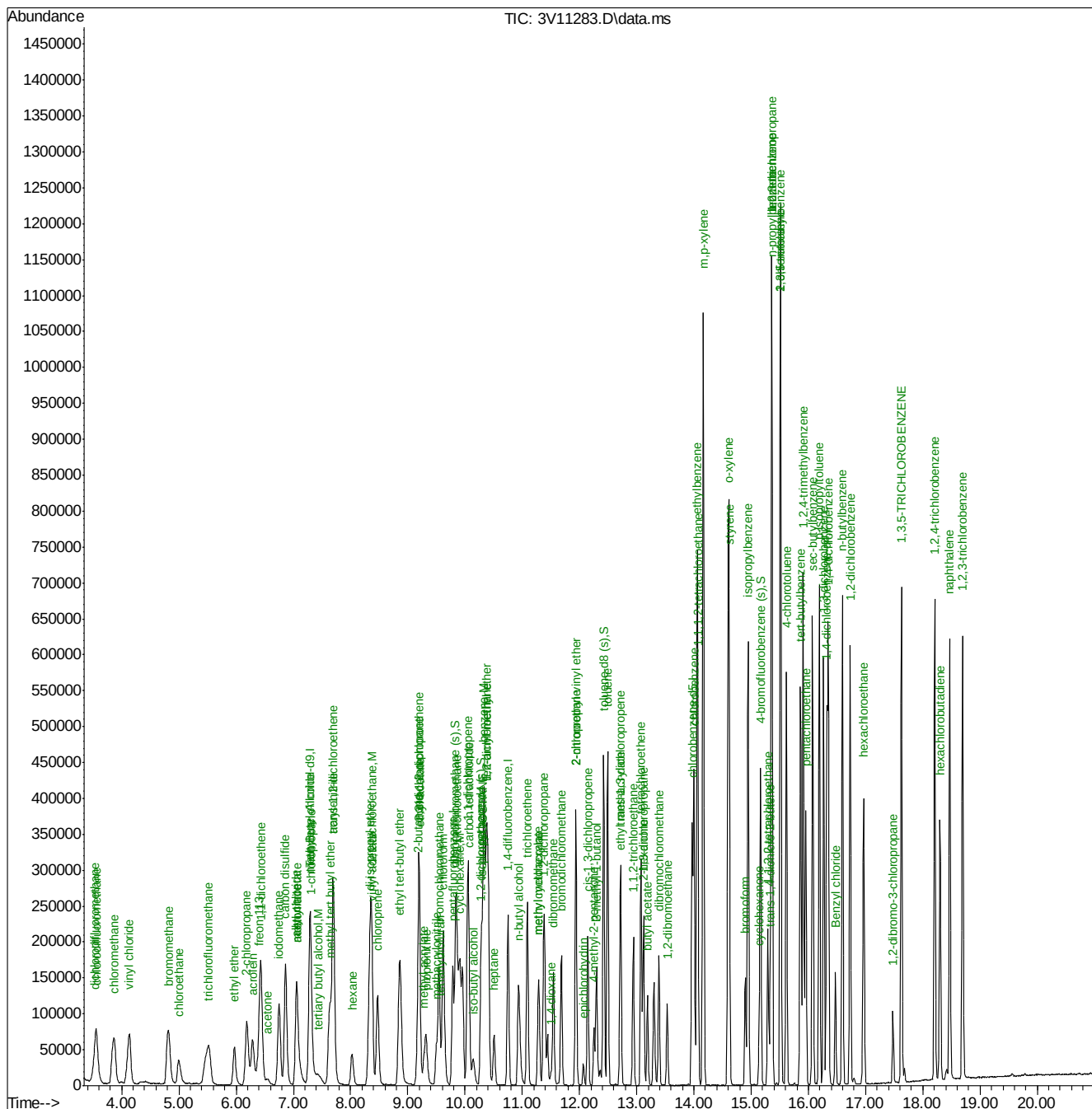
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94)	isopropylbenzene	14.945	105	452782	53.08	ug/L	99
96)	bromobenzene	15.359	156	126722	53.85	ug/L	96
97)	cyclohexanone	15.144	55	34720	104.71	ug/L	97
98)	1,1,2,2-tetrachloroethane	15.291	83	119387	54.18	ug/L	98
99)	trans-1,4-dichloro-2-b...	15.333	53	22224	45.16	ug/L	94
100)	1,2,3-trichloropropane	15.359	110	24693	52.04	ug/L	99
101)	n-propylbenzene	15.364	91	524588	50.99	ug/L	100
102)	2-chlorotoluene	15.516	126	119614	54.07	ug/L	99
103)	4-chlorotoluene	15.616	91	328833	51.57	ug/L	99
104)	1,3,5-trimethylbenzene	15.516	105	394408	53.32	ug/L	100
105)	tert-butylbenzene	15.862	119	304986	50.12	ug/L	99
106)	pentachloroethane	15.957	167	81593	51.46	ug/L	98
107)	1,2,4-trimethylbenzene	15.910	105	403756	51.61	ug/L	99
108)	sec-butylbenzene	16.072	105	492284	48.52	ug/L	99
109)	1,3-dichlorobenzene	16.266	146	254859	51.15	ug/L	98
110)	p-isopropyltoluene	16.193	119	421526	50.23	ug/L	99
111)	1,4-dichlorobenzene	16.350	146	252182	50.14	ug/L	99
112)	1,2-dichlorobenzene	16.733	146	254261	51.67	ug/L	100
113)	n-butylbenzene	16.596	92	214375	44.71	ug/L	99
114)	1,2-dibromo-3-chloropr...	17.477	75	23811	48.23	ug/L	99
115)	1,3,5-TRICHLOROBENZENE	17.624	180	223312	45.34	ug/L	100
116)	1,2,4-trichlorobenzene	18.206	180	211854	45.94	ug/L	99
117)	hexachlorobutadiene	18.300	225	82033	34.16	ug/L	99
118)	naphthalene	18.468	128	468490	50.97	ug/L	100
119)	1,2,3-trichlorobenzene	18.694	180	204870	47.52	ug/L	99
120)	hexachloroethane	16.963	119	90654	50.00	ug/L	99
121)	Benzyl chloride	16.471	91	110133	25.25	ug/L	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 3V11283.D
Acq On : 29 May 2014 3:33 pm
Operator : thienn
Sample : jb67809-1msd
Misc : MS68177,V3V478,5.4,,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 30 14:07:03 2014
Quant Method : C:\MSDCHEM\1\METHODS\M3V474.M
Quant Title : SW-846 Method 8260
QLast Update : Thu May 29 12:53:16 2014
Response via : Initial Calibration



M3V474.M Fri May 30 14:12:48 2014 GCMS3V

Page: 4

7.4.2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1C core\v1c5745-5746\
 Data File : 1C128863.D
 Acq On : 3 Jun 2014 12:46 am
 Operator : mariceld
 Sample : jB67826-2ms
 Misc : MS68191,V1C5746,5,,,,20
 ALS Vial : 32 Sample Multiplier: 1

Quant Time: Jun 03 16:08:34 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M1C5716.M
 Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
 QLast Update : Tue May 13 12:33:26 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	7.126	65	122129	500.00	ug/L	0.00
4) pentafluorobenzene	9.621	168	151000	50.00	ug/L	0.00
58) 1,4-difluorobenzene	10.584	114	231767	50.00	ug/L	0.00
88) chlorobenzene-d5	13.941	117	221440	50.00	ug/L	0.00
103) 1,4-dichlorobenzene-d4	16.420	152	137045	50.00	ug/L	0.00
System Monitoring Compounds						
52) dibromofluoromethane (s)	9.653	113	88529	49.92	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery =	99.84%		
53) 1,2-dichloroethane-d4 (s)	10.097	65	101468	49.37	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery =	98.74%		
80) toluene-d8 (s)	12.320	98	332443	51.20	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery =	102.40%		
105) 4-bromofluorobenzene (s)	15.186	95	129243	47.91	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery =	95.82%		
Target Compounds						
						Qvalue
2) tertiary butyl alcohol	7.257	59	71173	237.80	ug/L	100
3) 1,4-dioxane	11.352	88	23087	986.14	ug/L	94
9) chlorodifluoromethane	3.497	51	77312	48.37	ug/L	97
10) dichlorodifluoromethane	3.470	85	108893	43.03	ug/L	98
12) chloromethane	3.795	50	142824	42.74	ug/L	99
13) vinyl chloride	4.046	62	138313	47.06	ug/L	99
14) bromomethane	4.705	94	89122	49.69	ug/L	99
15) chloroethane	4.893	64	62026	49.54	ug/L	98
19) trichlorofluoromethane	5.406	101	150661	52.58	ug/L	100
20) ethyl ether	5.850	74	48455	49.07	ug/L	98
22) acrolein	6.127	56	205580	408.83	ug/L	99
23) 1,1-dichloroethene	6.305	96	85969	51.62	ug/L	98
24) acetone	6.389	43	37099	46.21	ug/L	96
25) acetonitrile	6.881	40	96274	400.85	ug/L	87
26) allyl chloride	6.901	76	44780	50.93	ug/L	96
27) iodomethane	6.593	142	173521	52.33	ug/L	99
28) carbon disulfide	6.718	76	303583	47.97	ug/L	99
29) 2-CHLOROPROPANE	6.049	43	172171	49.20	ug/L	# 78
30) methylene chloride	7.116	84	100685	51.68	ug/L	97
31) methyl acetate	6.907	43	88645	48.22	ug/L	99
32) methyl tert butyl ether	7.487	73	287890	49.60	ug/L	88
33) trans-1,2-dichloroethene	7.540	96	90374	53.23	ug/L	94
34) 1-CHLOROPROPANE	7.147	42	276462	79.93	ug/L	# 91
35) di-isopropyl ether	8.188	45	320747	48.93	ug/L	92
36) 2-butanone	9.009	72	12821	49.73	ug/L	# 77
37) 1,1-dichloroethane	8.188	63	176908	51.02	ug/L	99
38) chloroprene	8.308	53	130096	50.94	ug/L	98
39) acrylonitrile	7.503	53	210862	239.30	ug/L	100
40) vinyl acetate	8.209	86	15656	50.86	ug/L	88
41) ethyl tert-butyl ether	8.711	59	298718	49.39	ug/L	99
42) ethyl acetate	9.035	45	17356	48.10	ug/L	81
43) 2,2-dichloropropane	9.009	77	127150	46.87	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1C core\v1c5745-5746\
 Data File : 1C128863.D
 Acq On : 3 Jun 2014 12:46 am
 Operator : mariceld
 Sample : jB67826-2ms
 Misc : MS68191,V1C5746,5,,,,,20
 ALS Vial : 32 Sample Multiplier: 1

Quant Time: Jun 03 16:08:34 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M1C5716.M
 Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
 QLast Update : Tue May 13 12:33:26 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) cis-1,2-dichloroethene	9.020	96	100225	53.25	ug/L	96
45) propionitrile	9.109	54	175690	484.12	ug/L	97
46) methylacrylate	9.114	55	124695	49.18	ug/L	99
47) bromochloromethane	9.360	128	49798	51.82	ug/L	98
48) tetrahydrofuran	9.407	72	15148	48.10	ug/L	99
49) chloroform	9.438	85	106000	52.86	ug/L	99
50) T-BUTYL FORMATE	9.464	59	63402	34.37	ug/L	98
51) isobutyl alcohol	9.961	43	62857	428.89	ug/L	99
54) freon 113	6.284	151	67124	53.61	ug/L	96
55) methacrylonitrile	9.307	67	43906	50.08	ug/L	98
56) 1,1,1-trichloroethane	9.684	97	143873	53.81	ug/L	97
57) Cyclohexane	9.752	84	164950	59.20	ug/L	94
59) ISO-OCTANE	10.176	57	335060	44.60	ug/L	96
60) epichlorohydrin	11.928	57	58229	211.80	ug/L	98
61) n-butyl alcohol	10.761	56	185430	1986.40	ug/L	99
62) carbon tetrachloride	9.904	117	130745	53.18	ug/L	100
63) 1,1-dichloropropene	9.883	75	126783	52.69	ug/L	98
64) hexane	7.890	57	104245	49.49	ug/L	99
65) benzene	10.160	78	378054	51.65	ug/L	100
66) tert-amyl methyl ether	10.217	73	292205	48.46	ug/L	99
67) heptane	10.369	57	60113	45.22	ug/L	96
68) isopropyl acetate	10.128	43	245804	44.49	ug/L	98
69) 1,2-dichloroethane	10.191	62	127415	53.04	ug/L	98
70) trichloroethene	10.934	95	94479	53.89	ug/L	100
71) 2-nitropropane	11.771	41	30918	35.44	ug/L	97
73) methyl methacrylate	11.248	100	25461	49.98	ug/L	# 79
74) 1,2-dichloropropane	11.211	63	100383	50.67	ug/L	97
75) dibromomethane	11.384	93	61737	51.86	ug/L	94
76) methylcyclohexane	11.148	83	152305	51.39	ug/L	98
77) bromodichloromethane	11.530	83	129120	52.25	ug/L	99
79) cis-1,3-dichloropropene	12.022	75	154409	50.02	ug/L	99
81) 4-methyl-2-pentanone	12.132	58	47767	46.66	ug/L	100
82) toluene	12.398	92	395732	90.75	ug/L	99
83) 3-methyl-1-butanol	12.184	55	131055	857.06	ug/L	97
84) trans-1,3-dichloropropene	12.629	75	142046	48.08	ug/L	97
85) ethyl methacrylate	12.634	69	132409	48.41	ug/L	98
86) 1,1,2-trichloroethane	12.853	83	75406	49.76	ug/L	99
87) 2-hexanone	13.047	58	44668	46.88	ug/L	99
89) tetrachloroethene	13.021	164	84015	52.62	ug/L	96
90) 1,3-dichloropropane	13.047	76	144107	48.80	ug/L	99
91) butyl acetate	13.136	56	69950	42.39	ug/L	93
92) 3,3-DIMETHYL-1-BUTANOL	13.246	57	144456	403.28	ug/L	99
93) dibromochloromethane	13.324	129	105750	48.21	ug/L	98
94) 1,2-dibromoethane	13.476	107	93509	49.44	ug/L	99
95) chlorobenzene	13.973	112	259141	50.41	ug/L	99
96) 1,1,1,2-tetrachloroethane	14.046	131	107314	51.13	ug/L	97
97) ethylbenzene	14.041	91	1157453	128.97	ug/L	100
98) m,p-xylene	14.156	106	998819	297.00	ug/L	100
99) o-xylene	14.600	106	320960	92.32	ug/L	100
100) styrene	14.616	104	300498	52.85	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1C core\v1c5745-5746\
Data File : 1C128863.D
Acq On : 3 Jun 2014 12:46 am
Operator : mariceld
Sample : jB67826-2ms
Misc : MS68191,V1C5746,5,,,,,20
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Jun 03 16:08:34 2014
Quant Method : C:\MSDCHEM\1\METHODS\M1C5716.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Tue May 13 12:33:26 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
102) bromoform	14.893	173	85670	47.45	ug/L	99
104) isopropylbenzene	14.966	105	521088	55.73	ug/L	100
106) cyclohexanone	15.144	55	43994	233.98	ug/L	100
107) bromobenzene	15.385	156	129954	51.52	ug/L	95
108) 1,1,2,2-tetrachloroethane	15.306	83	148285	44.39	ug/L	99
109) trans-1,4-dichloro-2-b...	15.354	53	36412	39.73	ug/L	97
110) 1,2,3-trichloropropane	15.380	110	35584	45.54	ug/L	98
111) n-propylbenzene	15.401	91	671680	61.59	ug/L	99
112) 2-chlorotoluene	15.557	126	118424	50.81	ug/L	99
113) 4-chlorotoluene	15.662	91	333136	48.73	ug/L	99
114) 1,3,5-trimethylbenzene	15.568	105	454519	55.95	ug/L	99
115) tert-butylbenzene	15.934	119	355572	51.38	ug/L	99
116) pentachloroethane	16.023	167	91057	52.67	ug/L	99
117) 1,2,4-trimethylbenzene	15.981	105	563935	69.77	ug/L	99
118) sec-butylbenzene	16.159	105	553926	51.21	ug/L	99
119) 1,3-dichlorobenzene	16.358	146	251584	49.40	ug/L	99
120) p-isopropyltoluene	16.290	119	463462	51.18	ug/L	99
122) 1,4-dichlorobenzene	16.447	146	258042	48.98	ug/L	98
123) benzyl chloride	16.572	91	249682	38.07	ug/L	99
124) 1,2-dichlorobenzene	16.865	146	255632	49.78	ug/L	99
125) n-butylbenzene	16.724	92	243095	51.43	ug/L	98
126) 1,2-dibromo-3-chloropr...	17.691	75	31499	46.58	ug/L	97
127) 1,3,5-trichlorobenzene	17.890	180	229493	52.49	ug/L	100
128) 1,2,4-trichlorobenzene	18.575	180	207334	51.85	ug/L	100
129) hexachlorobutadiene	18.696	225	108175	51.34	ug/L	99
130) naphthalene	18.873	128	667155	63.54	ug/L	100
131) 1,2,3-trichlorobenzene	19.135	180	192109	50.18	ug/L	99
132) hexachloroethane	17.137	201	92978	54.69	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1C core\v1c5745-5746\
 Data File : 1C128864.D
 Acq On : 3 Jun 2014 1:14 am
 Operator : mariceld
 Sample : jB67826-2msd
 Misc : MS68191,V1C5746,5,,,,20
 ALS Vial : 33 Sample Multiplier: 1

Quant Time: Jun 03 16:08:44 2014

Quant Method : C:\MSDCHEM\1\METHODS\M1C5716.M

Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM

QLast Update : Tue May 13 12:33:26 2014

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	7.121	65	121087	500.00	ug/L	0.00
4) pentafluorobenzene	9.626	168	157800	50.00	ug/L	0.00
58) 1,4-difluorobenzene	10.583	114	240909	50.00	ug/L	0.00
88) chlorobenzene-d5	13.941	117	227886	50.00	ug/L	0.00
103) 1,4-dichlorobenzene-d4	16.420	152	135229	50.00	ug/L	0.00
System Monitoring Compounds						
52) dibromofluoromethane (s)	9.653	113	93250	50.31	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery =	100.62%		
53) 1,2-dichloroethane-d4 (s)	10.097	65	105249	49.00	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery =	98.00%		
80) toluene-d8 (s)	12.320	98	344908	51.11	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery =	102.22%		
105) 4-bromofluorobenzene (s)	15.186	95	132611	49.82	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery =	99.64%		
Target Compounds						
						Qvalue
2) tertiary butyl alcohol	7.257	59	71790	241.93	ug/L	100
3) 1,4-dioxane	11.352	88	22628	974.85	ug/L	96
9) chlorodifluoromethane	3.507	51	81992	49.09	ug/L	96
10) dichlorodifluoromethane	3.486	85	115737	43.76	ug/L	96
12) chloromethane	3.800	50	152463	43.66	ug/L	98
13) vinyl chloride	4.051	62	147284	47.96	ug/L	97
14) bromomethane	4.710	94	95239	50.81	ug/L	98
15) chloroethane	4.898	64	65799	50.29	ug/L	99
19) trichlorofluoromethane	5.421	101	160335	53.54	ug/L	99
20) ethyl ether	5.855	74	51676	50.07	ug/L	94
22) acrolein	6.138	56	214313	407.83	ug/L	98
23) 1,1-dichloroethene	6.305	96	92339	53.06	ug/L	99
24) acetone	6.394	43	38943	46.42	ug/L	95
25) acetonitrile	6.886	40	121339	483.44	ug/L	86
26) allyl chloride	6.907	76	47644	51.85	ug/L	94
27) iodomethane	6.598	142	186657	53.86	ug/L	99
28) carbon disulfide	6.724	76	330359	49.95	ug/L	99
29) 2-CHLOROPROPANE	6.054	43	186486	50.99	ug/L	# 80
30) methylene chloride	7.121	84	108818	53.45	ug/L	95
31) methyl acetate	6.912	43	89907	46.79	ug/L	97
32) methyl tert butyl ether	7.492	73	298147	49.15	ug/L	88
33) trans-1,2-dichloroethene	7.540	96	96777	54.55	ug/L	97
34) 1-CHLOROPROPANE	7.152	42	294725	81.64	ug/L	# 91
35) di-isopropyl ether	8.188	45	337276	49.23	ug/L	85
36) 2-butanone	9.009	72	13286	49.31	ug/L	# 89
37) 1,1-dichloroethane	8.193	63	189643	52.34	ug/L	99
38) chloroprene	8.314	53	139806	52.38	ug/L	98
39) acrylonitrile	7.503	53	218630	237.42	ug/L	99
40) vinyl acetate	8.209	86	15890	49.40	ug/L	96
41) ethyl tert-butyl ether	8.716	59	313517	49.60	ug/L	98
42) ethyl acetate	9.041	45	17859	47.36	ug/L	90
43) 2,2-dichloropropane	9.014	77	134029	47.28	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1C core\v1c5745-5746\
 Data File : 1C128864.D
 Acq On : 3 Jun 2014 1:14 am
 Operator : mariceld
 Sample : jB67826-2msd
 Misc : MS68191,V1C5746,5,,,,,20
 ALS Vial : 33 Sample Multiplier: 1

Quant Time: Jun 03 16:08:44 2014

Quant Method : C:\MSDCHEM\1\METHODS\M1C5716.M

Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM

QLast Update : Tue May 13 12:33:26 2014

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) cis-1,2-dichloroethene	9.025	96	106879	54.34	ug/L	95
45) propionitrile	9.114	54	183260	483.22	ug/L	95
46) methylacrylate	9.114	55	128663	48.56	ug/L	98
47) bromochloromethane	9.360	128	53622	53.40	ug/L	97
48) tetrahydrofuran	9.407	72	15635	47.51	ug/L	94
49) chloroform	9.438	85	112757	53.81	ug/L	98
50) T-BUTYL FORMATE	9.469	59	65338	33.90	ug/L	97
51) isobutyl alcohol	9.961	43	63626	415.43	ug/L	99
54) freon 113	6.289	151	71678	54.78	ug/L	94
55) methacrylonitrile	9.313	67	45402	49.55	ug/L	97
56) 1,1,1-trichloroethane	9.689	97	151242	54.13	ug/L	98
57) Cyclohexane	9.757	84	177238	60.87	ug/L	97
59) ISO-OCTANE	10.176	57	359024	45.98	ug/L	96
60) epichlorohydrin	11.928	57	59313	207.55	ug/L	98
61) n-butyl alcohol	10.761	56	186174	1918.68	ug/L	99
62) carbon tetrachloride	9.904	117	138956	54.37	ug/L	99
63) 1,1-dichloropropene	9.888	75	134830	53.91	ug/L	97
64) hexane	7.890	57	111309	50.83	ug/L	97
65) benzene	10.165	78	403494	53.03	ug/L	99
66) tert-amyl methyl ether	10.217	73	306046	48.83	ug/L	98
67) heptane	10.369	57	63854	46.21	ug/L	99
68) isopropyl acetate	10.134	43	256852	44.72	ug/L	99
69) 1,2-dichloroethane	10.191	62	132868	53.21	ug/L	99
70) trichloroethene	10.934	95	100582	55.19	ug/L	99
71) 2-nitropropane	11.771	41	32199	35.51	ug/L	99
73) methyl methacrylate	11.248	100	26541	50.12	ug/L #	88
74) 1,2-dichloropropane	11.211	63	106722	51.82	ug/L	97
75) dibromomethane	11.384	93	64849	52.40	ug/L	96
76) methylcyclohexane	11.148	83	165614	53.76	ug/L	97
77) bromodichloromethane	11.530	83	135863	52.89	ug/L	99
79) cis-1,3-dichloropropene	12.022	75	162894	50.77	ug/L	99
81) 4-methyl-2-pentanone	12.132	58	49426	46.45	ug/L	99
82) toluene	12.398	92	420322	92.74	ug/L	99
83) 3-methyl-1-butanol	12.179	55	132506	833.67	ug/L	99
84) trans-1,3-dichloropropene	12.629	75	149507	48.68	ug/L	100
85) ethyl methacrylate	12.634	69	138159	48.60	ug/L	96
86) 1,1,2-trichloroethane	12.853	83	78601	49.90	ug/L	99
87) 2-hexanone	13.052	58	46025	46.47	ug/L	98
89) tetrachloroethene	13.021	164	90053	54.80	ug/L	97
90) 1,3-dichloropropane	13.047	76	150754	49.60	ug/L	99
91) butyl acetate	13.136	56	72856	42.90	ug/L	92
92) 3,3-DIMETHYL-1-BUTANOL	13.251	57	145087	393.58	ug/L	98
93) dibromochloromethane	13.324	129	111002	49.18	ug/L	98
94) 1,2-dibromoethane	13.476	107	97516	50.10	ug/L	97
95) chlorobenzene	13.973	112	275105	52.01	ug/L	99
96) 1,1,1,2-tetrachloroethane	14.046	131	112183	51.93	ug/L	98
97) ethylbenzene	14.041	91	1226061	132.75	ug/L	100
98) m,p-xylene	14.156	106	1058464	305.84	ug/L	100
99) o-xylene	14.600	106	343866	96.11	ug/L	99
100) styrene	14.616	104	317788	54.31	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1C core\v1c5745-5746\
 Data File : 1C128864.D
 Acq On : 3 Jun 2014 1:14 am
 Operator : mariceld
 Sample : jB67826-2msd
 Misc : MS68191,V1C5746,5,,,,,20
 ALS Vial : 33 Sample Multiplier: 1

Quant Time: Jun 03 16:08:44 2014

Quant Method : C:\MSDCHEM\1\METHODS\M1C5716.M

Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM

QLast Update : Tue May 13 12:33:26 2014

Response via : Initial Calibration

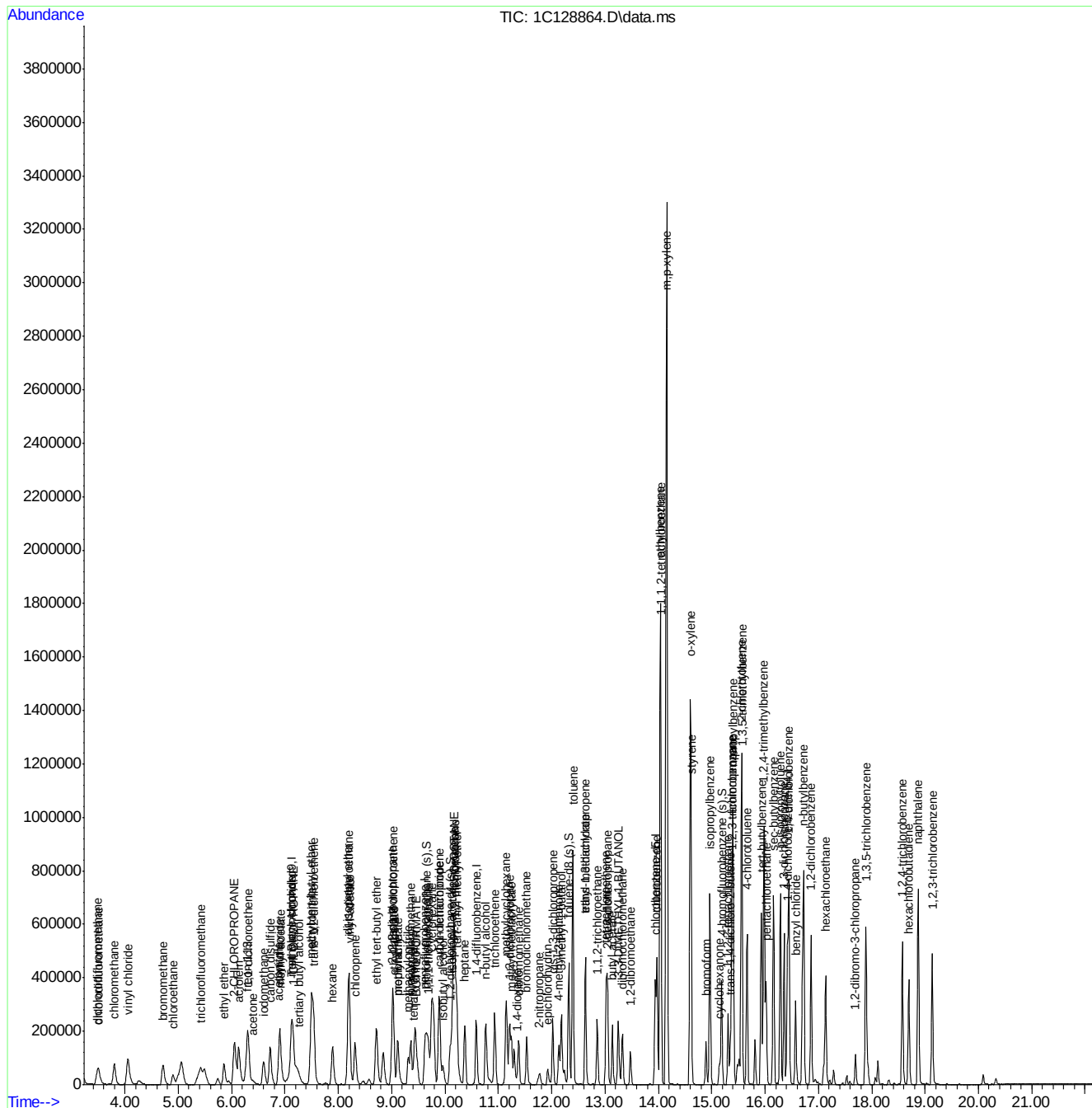
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
102) bromoform	14.893	173	89356	48.10	ug/L	97
104) isopropylbenzene	14.966	105	548920	59.50	ug/L	99
106) cyclohexanone	15.144	55	42572	229.46	ug/L	97
107) bromobenzene	15.385	156	135581	54.47	ug/L	96
108) 1,1,2,2-tetrachloroethane	15.306	83	155271	47.11	ug/L	99
109) trans-1,4-dichloro-2-b...	15.348	53	37908	41.92	ug/L	89
110) 1,2,3-trichloropropane	15.380	110	36889	47.84	ug/L	98
111) n-propylbenzene	15.401	91	712394	66.20	ug/L	99
112) 2-chlorotoluene	15.557	126	126667	55.08	ug/L	98
113) 4-chlorotoluene	15.662	91	351246	52.07	ug/L	99
114) 1,3,5-trimethylbenzene	15.568	105	481725	60.10	ug/L	99
115) tert-butylbenzene	15.934	119	376347	55.12	ug/L	99
116) pentachloroethane	16.023	167	94124	55.18	ug/L	99
117) 1,2,4-trimethylbenzene	15.981	105	593478	74.42	ug/L	99
118) sec-butylbenzene	16.159	105	580459	54.38	ug/L	99
119) 1,3-dichlorobenzene	16.358	146	264482	52.63	ug/L	99
120) p-isopropyltoluene	16.290	119	487572	54.57	ug/L	99
122) 1,4-dichlorobenzene	16.447	146	270536	52.04	ug/L	99
123) benzyl chloride	16.572	91	253954	39.24	ug/L	99
124) 1,2-dichlorobenzene	16.865	146	265631	52.42	ug/L	99
125) n-butylbenzene	16.724	92	255499	54.78	ug/L	98
126) 1,2-dibromo-3-chloropr...	17.697	75	31935	47.86	ug/L	92
127) 1,3,5-trichlorobenzene	17.890	180	236900	54.91	ug/L	100
128) 1,2,4-trichlorobenzene	18.575	180	212243	53.79	ug/L	99
129) hexachlorobutadiene	18.696	225	113814	54.74	ug/L	99
130) naphthalene	18.873	128	681234	65.75	ug/L	100
131) 1,2,3-trichlorobenzene	19.135	180	198440	52.53	ug/L	99
132) hexachloroethane	17.137	201	99126	59.09	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1C core\1c5745-5746\
 Data File : 1C128864.D
 Acq On : 3 Jun 2014 1:14 am
 Operator : mariceld
 Sample : jb67826-2msd
 Misc : MS68191,V1C5746,5,,,,,20
 ALS Vial : 33 Sample Multiplier: 1

Quant Time: Jun 03 16:08:44 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M1C5716.M
 Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
 QLast Update : Tue May 13 12:33:26 2014
 Response via : Initial Calibration



SW-846 Method 8260

Data File : C:\MSDCHEM\1\DATA\1C128175.D

Acq On : 12 May 2014 11:52 am

Sample : bfb

Misc : MS66796,V1C5716,5,,,1

MS Integration Params: rteint.p

Vial: 3

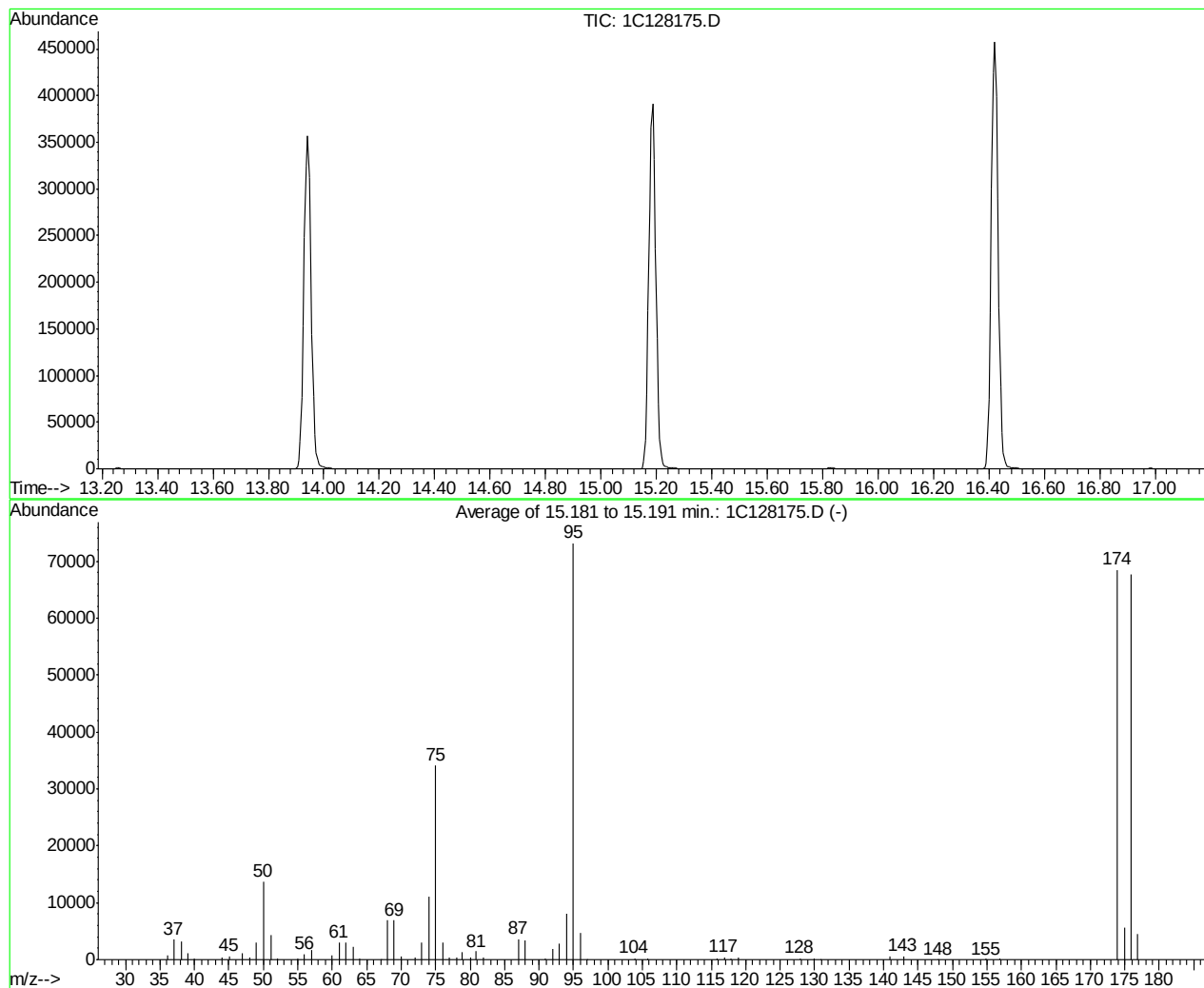
Operator: mariceld

Inst : MS1C

Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\M1C5716.M (RTE Integrator)

Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM



AutoFind: Scans 2285, 2286, 2287; Background Corrected with Scan 2276

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.7	13718	PASS
75	95	30	60	46.7	34213	PASS
95	95	100	100	100.0	73218	PASS
96	95	5	9	6.3	4643	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	93.5	68458	PASS
175	174	5	9	8.1	5576	PASS
176	174	95	101	98.9	67693	PASS
177	176	5	9	6.7	4516	PASS

Average of 15.181 to 15.191 min.: 1C128175.D

bfb

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	683	51.05	4329	68.00	6868	80.00	457
37.00	3512	52.00	200	69.00	6905	80.90	1503
38.10	3105	54.95	185	70.00	487	81.90	311
39.05	1162	56.00	960	72.00	353	87.00	3663
40.05	156	57.00	1741	73.00	2951	87.95	3393
44.00	291	60.00	679	74.00	11161	90.90	197
45.05	636	61.00	3047	75.00	34213	92.00	1852
47.00	1190	62.00	3033	76.00	2969	93.00	2773
48.00	429	63.00	2274	77.00	441	94.00	8005
49.00	3022	64.00	200	78.00	349	95.00	73218
50.00	13718	67.10	71	78.90	1412	96.00	4643

Average of 15.181 to 15.191 min.: 1C128175.D

bfb

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
96.90	56	142.90	643				
103.90	262	147.90	60				
105.85	244	154.90	181				
115.90	247	156.90	105				
116.90	411	173.90	68458				
117.90	212	175.00	5576				
118.90	306	175.90	67693				
127.85	228	176.90	4516				
129.90	227						
130.90	52						
140.90	625						

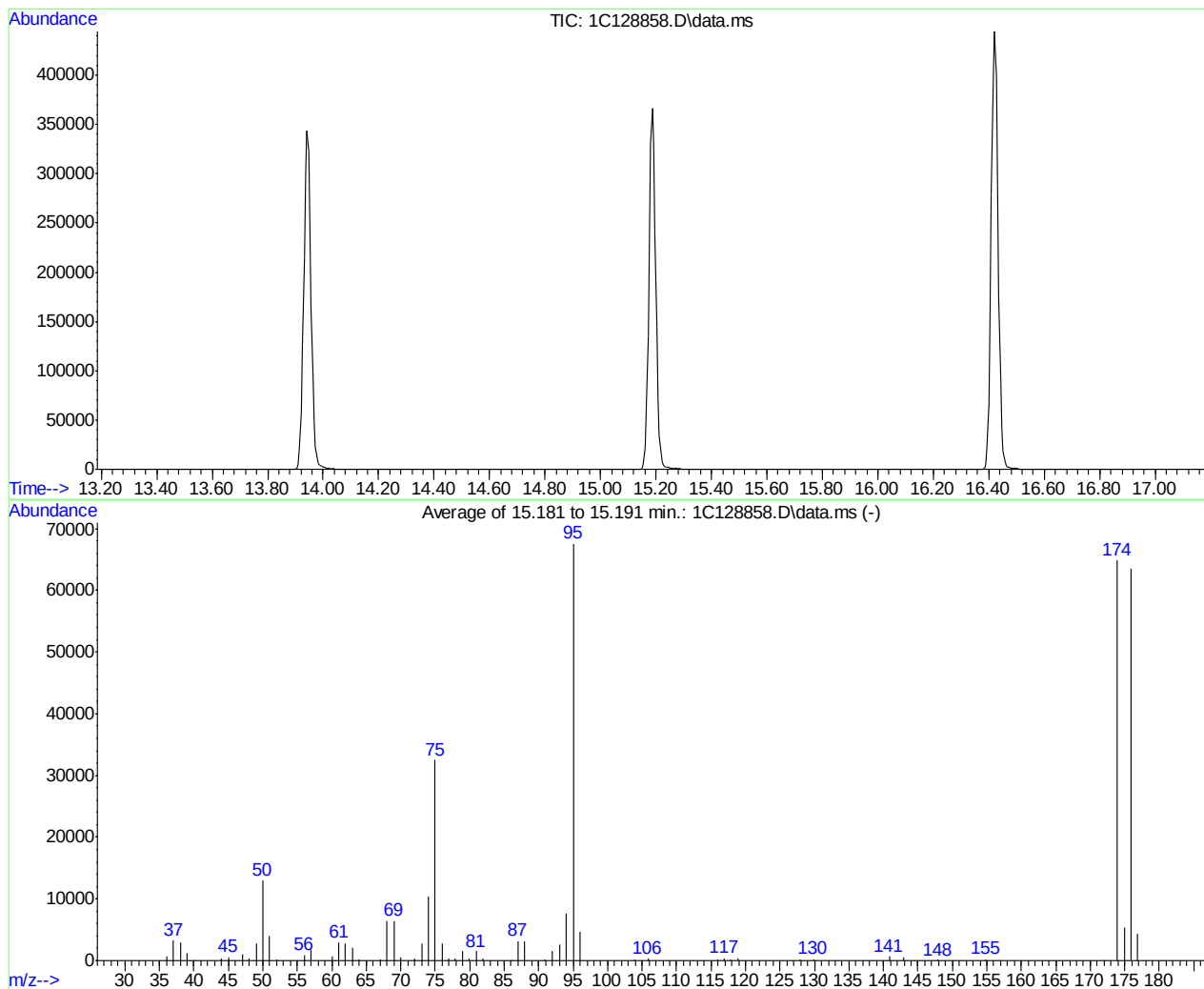
7.5.1

7

SW-846 Method 8260

Data File : C:\msdchem\1\DATA\1C...c5745-5746\1C128858.D Vial: 27
Acq On : 2 Jun 2014 10:24 pm Operator: mariceld
Sample : bfb Inst : MS1C
Misc : MS68178,V1C5746,5,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M1C5716.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM



AutoFind: Scans 2285, 2286, 2287; Background Corrected with Scan 2276

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.3	13044	PASS
75	95	30	60	48.1	32501	PASS
95	95	100	100	100.0	67576	PASS
96	95	5	9	6.8	4596	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	95.9	64826	PASS
175	174	5	9	8.2	5321	PASS
176	174	95	101	98.1	63600	PASS
177	176	5	9	6.7	4258	PASS

Average of 15.181 to 15.191 min.: 1C128858.D\data.ms

bfb

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	658	51.00	4040	69.00	6461	80.90	1550
37.00	3283	51.95	117	70.00	467	81.90	325
38.05	2870	56.00	898	72.05	390	86.10	60
39.05	1153	57.00	1735	73.00	2740	86.95	3118
39.90	50	60.00	655	74.00	10456	87.95	3039
43.95	297	61.00	2976	75.00	32501	90.90	248
45.00	584	62.00	2843	76.00	2785	91.95	1606
47.00	1012	63.00	2124	76.95	415	93.00	2538
48.00	435	63.95	208	77.90	301	94.00	7705
49.00	2809	67.00	248	78.90	1526	95.00	67576
50.00	13044	68.00	6409	79.95	424	96.00	4596

Average of 15.181 to 15.191 min.: 1C128858.D\data.ms

bfb

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
103.85	247	154.85	182				
105.90	272	156.80	51				
115.90	217	172.00	51				
116.95	363	173.90	64826				
117.90	186	174.95	5321				
118.90	341	175.90	63600				
127.85	201	176.90	4258				
129.90	230						
140.90	634						
142.90	611						
147.90	122						

7.5.2

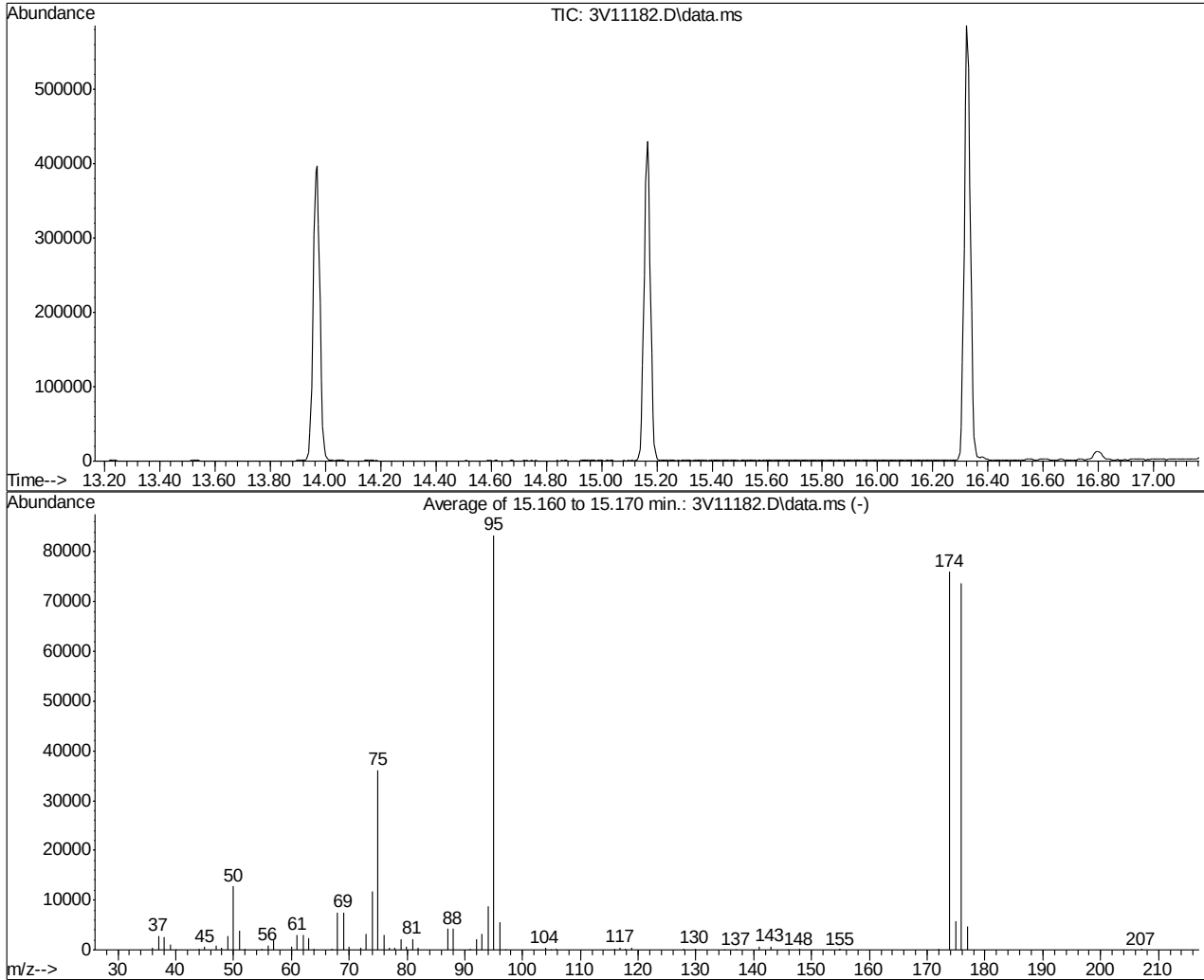
7

SW-846 Method 8260

Data File : C:\msdchem\1\DATA\3V11182.D
 Acq On : 22 May 2014 9:42 am
 Sample : bfb
 Misc : MS65178,V3V474,5,,,1
 MS Integration Params: rteint.p

Vial: 1
 Operator: thienn
 Inst : MS3V
 Multiplr: 1.00

Method : C:\msdchem\1\METHODS\M3V474.M (RTE Integrator)
 Title : SW-846 Method 8260



AutoFind: Scans 2255, 2256, 2257; Background Corrected with Scan 2246

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.3	12725	PASS
75	95	30	60	43.3	36133	PASS
95	95	100	100	100.0	83405	PASS
96	95	5	9	6.8	5637	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	91.2	76061	PASS
175	174	5	9	7.7	5852	PASS
176	174	95	101	97.0	73779	PASS
177	176	5	9	6.5	4785	PASS

Average of 15.160 to 15.170 min.: 3V11182.D\data.ms

bfb

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	516	51.00	3886	68.00	7481	79.95	663
37.05	2843	52.00	178	69.00	7516	80.95	2182
38.00	2601	54.95	188	70.00	613	81.90	522
39.05	1027	56.00	917	72.00	401	87.00	4173
39.95	42	57.00	1862	73.00	3171	88.00	4181
44.00	236	60.00	672	74.00	11715	91.00	308
45.00	559	61.00	3063	75.00	36133	92.00	2097
47.00	927	62.00	2980	76.00	2997	93.00	3154
47.95	413	63.00	2344	76.95	520	94.00	8832
49.00	2768	64.00	209	77.95	415	95.00	83405
50.00	12725	67.00	217	78.90	2087	96.00	5637

Average of 15.160 to 15.170 min.: 3V11182.D\data.ms

bfb

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
97.00	57	136.90	69	176.90	4785		
103.90	387	140.90	703	207.05	168		
104.90	53	142.90	731				
105.90	324	145.90	106				
115.90	264	147.90	141				
116.90	503	154.80	54				
117.85	251	154.95	128				
118.90	408	171.95	246				
127.90	255	173.90	76061				
129.90	299	175.00	5852				
134.80	57	175.90	73779				

SW-846 Method 8260

Data File : C:\msdchem\1\DATA\3V11269.D

Acq On : 29 May 2014 8:30 am

Sample : bfb

Misc : MS68177,V3V478,5,,,1

MS Integration Params: rteint.p

Vial: 1

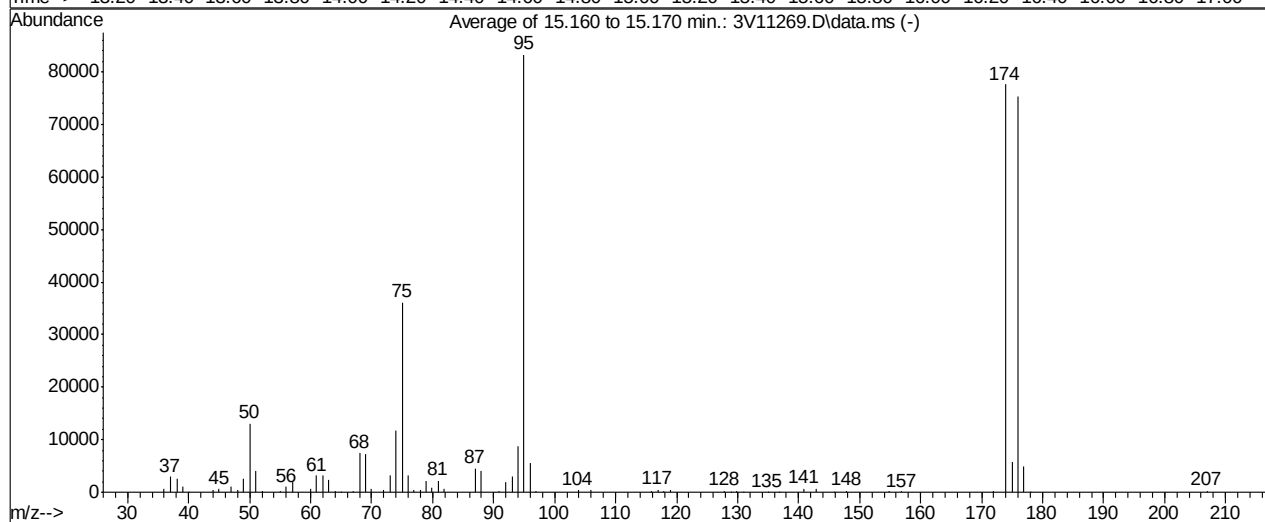
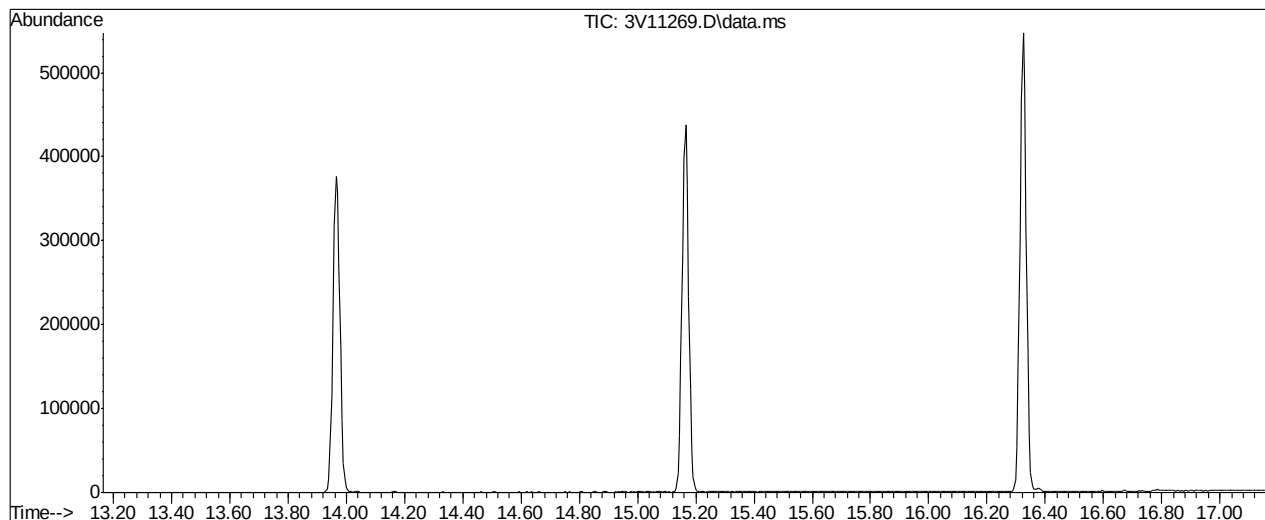
Operator: thienn

Inst : MS3V

Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\M3V474.M (RTE Integrator)

Title : SW-846 Method 8260



AutoFind: Scans 2255, 2256, 2257; Background Corrected with Scan 2246

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.7	13088	PASS
75	95	30	60	43.3	36077	PASS
95	95	100	100	100.0	83291	PASS
96	95	5	9	6.7	5552	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	93.2	77629	PASS
175	174	5	9	7.5	5800	PASS
176	174	95	101	96.9	75213	PASS
177	176	5	9	6.5	4865	PASS

Average of 15.160 to 15.170 min.: 3V11269.D\data.ms

bfb

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	557	51.05	3971	67.00	224	78.90	2208
37.00	2959	52.00	132	68.00	7407	79.90	794
38.05	2629	54.95	184	69.00	7319	80.90	2226
39.05	1093	56.00	1049	70.00	568	81.90	548
39.90	56	57.00	1840	72.00	405	87.00	4511
44.00	353	60.05	591	73.00	3243	87.95	4134
45.00	632	61.00	3193	74.00	11794	90.95	269
47.00	1100	62.00	3150	75.00	36077	92.00	1964
48.00	376	63.00	2289	76.00	3147	93.00	2999
49.00	2625	63.95	241	76.95	527	94.00	8766
50.00	13088	65.00	73	77.95	451	95.00	83291

Average of 15.160 to 15.170 min.: 3V11269.D\data.ms

bfb

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
96.00	5552	130.90	51	175.00	5800		
97.00	186	134.90	59	175.95	75213		
103.90	376	136.90	55	176.90	4865		
105.95	331	140.90	718	177.90	112		
115.90	275	142.90	691	206.95	217		
116.95	451	145.90	52				
117.90	304	147.90	227				
118.90	389	154.90	161				
127.90	290	156.90	164				
128.90	52	171.95	327				
129.85	287	173.90	77629				

7.5.4

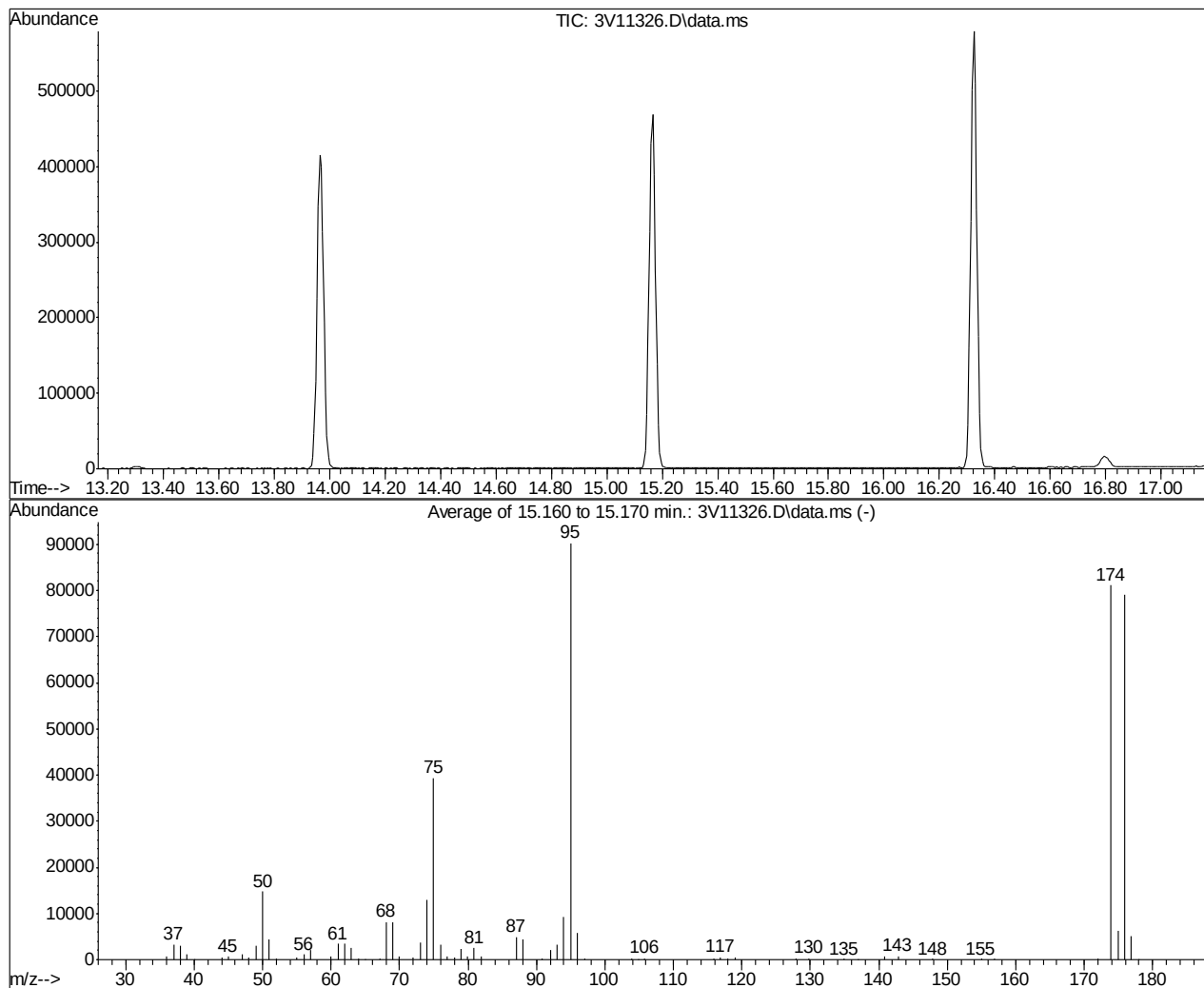
7

SW-846 Method 8260

Data File : C:\msdchem\1\DATA\3V11326.D
 Acq On : 31 May 2014 10:57 am
 Sample : bfb
 Misc : MS68313,V3V480,5,,100,5,1
 MS Integration Params: rteint.p

Vial: 1
 Operator: thienn
 Inst : MS3V
 Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\M3V474.M (RTE Integrator)
 Title : SW-846 Method 8260



AutoFind: Scans 2255, 2256, 2257; Background Corrected with Scan 2246

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.3	14739	PASS
75	95	30	60	43.6	39387	PASS
95	95	100	100	100.0	90275	PASS
96	95	5	9	6.5	5866	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	89.8	81053	PASS
175	174	5	9	7.8	6282	PASS
176	174	95	101	97.7	79152	PASS
177	176	5	9	6.5	5167	PASS

Average of 15.160 to 15.170 min.: 3V11326.D\data.ms

bfb

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	673	51.00	4442	67.10	187	78.90	2294
37.05	3287	52.00	193	68.00	8215	79.90	809
38.05	2996	55.00	370	69.00	8181	80.90	2475
39.00	1171	56.00	1089	70.00	636	81.90	611
39.95	64	57.00	2047	72.00	374	87.00	4866
44.00	416	60.00	715	73.00	3606	87.95	4484
45.00	643	61.00	3427	74.00	12971	90.85	317
47.05	1137	62.00	3393	75.00	39387	92.00	2161
48.00	428	63.00	2517	76.00	3271	93.00	3347
49.00	2973	64.00	273	77.00	608	94.00	9224
50.00	14739	64.90	58	78.00	439	95.00	90275

Average of 15.160 to 15.170 min.: 3V11326.D\data.ms

bfb

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
96.00	5866	134.95	127	176.90	5167		
97.00	132	136.90	64	177.90	51		
103.90	341	140.90	671				
104.90	53	142.85	754				
105.85	348	147.90	211				
115.90	261	154.95	195				
116.90	511	156.95	178				
117.90	310	171.95	291				
118.95	386	173.90	81053				
127.90	268	175.00	6282				
129.85	304	175.90	79152				

7.5.5

7

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : 1C128176.D
 Acq On : 12 May 2014 12:25 pm
 Operator : mariceld
 Sample : ic5716-0.2
 Misc : MS66796,V1C5716,5,,,,,1
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 13 12:43:38 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M1C5716.M
 Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
 QLast Update : Tue May 13 08:40:30 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.12	65	139208	500.00	ug/L	0.00
4) pentafluorobenzene	9.63	168	157969	50.00	ug/L	0.00
58) 1,4-difluorobenzene	10.58	114	243192	50.00	ug/L	0.00
88) chlorobenzene-d5	13.94	117	217106	50.00	ug/L	0.00
103) 1,4-dichlorobenzene-d4	16.42	152	132993	50.00	ug/L	0.00

System Monitoring Compounds

52) dibromofluoromethane (s)	0.00	113	0d	0.00	ug/L	
Spiked Amount	50.000	Range 79 - 120	Recovery	=	0.00%#	
53) 1,2-dichloroethane-d4 (s)	0.00	65	0	0.00	ug/L	
Spiked Amount	50.000	Range 72 - 123	Recovery	=	0.00%#	
80) toluene-d8 (s)	0.00	98	0d	0.00	ug/L	
Spiked Amount	50.000	Range 78 - 119	Recovery	=	0.00%#	
105) 4-bromofluorobenzene (s)	0.00	95	0d	0.00	ug/L	
Spiked Amount	50.000	Range 74 - 119	Recovery	=	0.00%#	

Target Compounds

						Qvalue
12) chloromethane	3.78	50	757	0.22	ug/L #	50
13) vinyl chloride	4.02	62	530	0.17	ug/L #	51
30) methylene chloride	7.13	84	443	0.22	ug/L #	75
32) methyl tert butyl ether	7.51	73	1234	0.21	ug/L	51
35) di-isopropyl ether	8.20	45	1175	0.17	ug/L #	59
41) ethyl tert-butyl ether	8.72	59	1162	0.19	ug/L #	41
49) chloroform	9.45	85	336	0.16	ug/L #	66
65) benzene	10.17	78	1636	0.22	ug/L	92
66) tert-amyl methyl ether	10.22	73	1181	0.19	ug/L	53
77) bromodichloromethane	11.54	83	478	0.18	ug/L	92
79) cis-1,3-dichloropropene	12.03	75	637	0.19	ug/L #	34
82) toluene	12.40	92	960	0.21	ug/L	95
90) 1,3-dichloropropane	13.05	76	525	0.18	ug/L #	77
92) 3,3-DIMETHYL-1-BUTANOL	13.26	57	771	2.27	ug/L	85
95) chlorobenzene	13.98	112	1015	0.21	ug/L	97
97) ethylbenzene	14.05	91	1926	0.23	ug/L	87
98) m,p-xylene	14.16	106	1372	0.43	ug/L	96
99) o-xylene	14.61	106	681	0.20	ug/L	88
100) styrene	14.63	104	1100	0.20	ug/L	82
104) isopropylbenzene	14.97	105	1998	0.23	ug/L	96
107) bromobenzene	15.39	156	477	0.20	ug/L #	74
108) 1,1,2,2-tetrachloroethane	15.31	83	679	0.23	ug/L	93
111) n-propylbenzene	15.41	91	2295	0.23	ug/L	82
113) 4-chlorotoluene	15.67	91	1348	0.21	ug/L	89
114) 1,3,5-trimethylbenzene	15.57	105	1685	0.22	ug/L	89
115) tert-butylbenzene	15.93	119	1307	0.20	ug/L	81
117) 1,2,4-trimethylbenzene	15.98	105	1733	0.23	ug/L	88
118) sec-butylbenzene	16.16	105	2253	0.22	ug/L	97
119) 1,3-dichlorobenzene	16.36	146	1074	0.23	ug/L	96
120) p-isopropyltoluene	16.29	119	1807	0.21	ug/L	95
122) 1,4-dichlorobenzene	16.45	146	1302	0.27	ug/L	71
123) benzyl chloride	16.58	91	1428	0.25	ug/L #	55
124) 1,2-dichlorobenzene	16.87	146	1041	0.22	ug/L	91

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 1C128176.D
Acq On : 12 May 2014 12:25 pm
Operator : mariceld
Sample : ic5716-0.2
Misc : MS66796,V1C5716,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 13 12:43:38 2014
Quant Method : C:\MSDCHEM\1\METHODS\M1C5716.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Tue May 13 08:40:30 2014
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
125) n-butylbenzene	16.73	92	960	0.22	ug/L	90
127) 1,3,5-trichlorobenzene	17.89	180	869	0.21	ug/L #	93
128) 1,2,4-trichlorobenzene	18.58	180	816	0.22	ug/L	85
129) hexachlorobutadiene	18.70	225	372	0.19	ug/L #	53
131) 1,2,3-trichlorobenzene	19.14	180	818	0.24	ug/L	72

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.1

7

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : 1C128177.D
 Acq On : 12 May 2014 12:54 pm
 Operator : mariceld
 Sample : ic5716-0.5
 Misc : MS66796,V1C5716,5,,,,,1
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 13 12:50:46 2014

Quant Method : C:\MSDCHEM\1\METHODS\M1C5716.M

Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM

QLast Update : Tue May 13 08:40:48 2014

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.12	65	135272	500.00	ug/L	-0.01
4) pentafluorobenzene	9.63	168	152141	50.00	ug/L	0.00
58) 1,4-difluorobenzene	10.58	114	232543	50.00	ug/L	0.00
88) chlorobenzene-d5	13.94	117	208044	50.00	ug/L	0.00
103) 1,4-dichlorobenzene-d4	16.42	152	125000	50.00	ug/L	0.00

System Monitoring Compounds

52) dibromofluoromethane (s)	9.66	113	882	0.41	ug/L	0.00
Spiked Amount	50.000	Range	79 - 120	Recovery	=	0.82%#
53) 1,2-dichloroethane-d4 (s)	10.10	65	1054	0.54	ug/L	0.00
Spiked Amount	50.000	Range	72 - 123	Recovery	=	1.08%#
80) toluene-d8 (s)	0.00	98	0d	0.00	ug/L	
Spiked Amount	50.000	Range	78 - 119	Recovery	=	0.00%#
105) 4-bromofluorobenzene (s)	0.00	95	0d	0.00	ug/L	
Spiked Amount	50.000	Range	74 - 119	Recovery	=	0.00%#

Target Compounds

						Qvalue
12) chloromethane	3.78	50	1577	0.46	ug/L	92
13) vinyl chloride	4.02	62	1261	0.45	ug/L #	51
23) 1,1-dichloroethene	6.31	96	691	0.41	ug/L #	61
24) acetone	6.44	43	407	0.53	ug/L #	55
27) iodomethane	6.60	142	1375	0.46	ug/L	88
29) 2-CHLOROPROPANE	6.05	43	1492	0.53	ug/L #	56
30) methylene chloride	7.13	84	834	0.41	ug/L #	74
32) methyl tert butyl ether	7.51	73	2584	0.44	ug/L	94
33) trans-1,2-dichloroethene	7.56	96	614	0.55	ug/L	89
35) di-isopropyl ether	8.21	45	2855	0.47	ug/L #	59
37) 1,1-dichloroethane	8.19	63	1506	0.43	ug/L	91
41) ethyl tert-butyl ether	8.73	59	2676	0.46	ug/L	91
43) 2,2-dichloropropane	9.01	77	1260	0.53	ug/L	78
44) cis-1,2-dichloroethene	9.04	96	770	0.57	ug/L #	78
45) propionitrile	9.15	54	1470	6.91	ug/L #	28
49) chloroform	9.44	85	949	0.53	ug/L #	70
51) isobutyl alcohol	10.00	43	613	1.37	ug/L #	20
56) 1,1,1-trichloroethane	9.68	97	1106	0.47	ug/L #	32
57) Cyclohexane	9.76	84	1271	0.56	ug/L	84
62) carbon tetrachloride	9.91	117	1048	0.51	ug/L	72
63) 1,1-dichloropropene	9.89	75	970	0.50	ug/L #	62
65) benzene	10.17	78	3443	0.46	ug/L	94
66) tert-amyl methyl ether	10.23	73	2630	0.45	ug/L	92
68) isopropyl acetate	10.16	43	2361	0.47	ug/L	62
69) 1,2-dichloroethane	10.21	62	964	0.52	ug/L #	48
70) trichloroethene	10.94	95	701	0.48	ug/L	84
72) 2-chloroethyl vinyl ether	11.82	63	2556	2.22	ug/L	97
74) 1,2-dichloropropane	11.22	63	840	0.52	ug/L #	47
75) dibromomethane	11.38	93	458	0.38	ug/L	79
77) bromodichloromethane	11.54	83	1135	0.48	ug/L	94
79) cis-1,3-dichloropropene	12.04	75	1290	0.42	ug/L	98
82) toluene	12.41	92	2080	0.47	ug/L	97
89) tetrachloroethene	13.03	164	661	0.63	ug/L #	84

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : 1C128177.D
 Acq On : 12 May 2014 12:54 pm
 Operator : mariceld
 Sample : ic5716-0.5
 Misc : MS66796,V1C5716,5,,,,1
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 13 12:50:46 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M1C5716.M
 Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
 QLast Update : Tue May 13 08:40:48 2014
 Response via : Initial Calibration

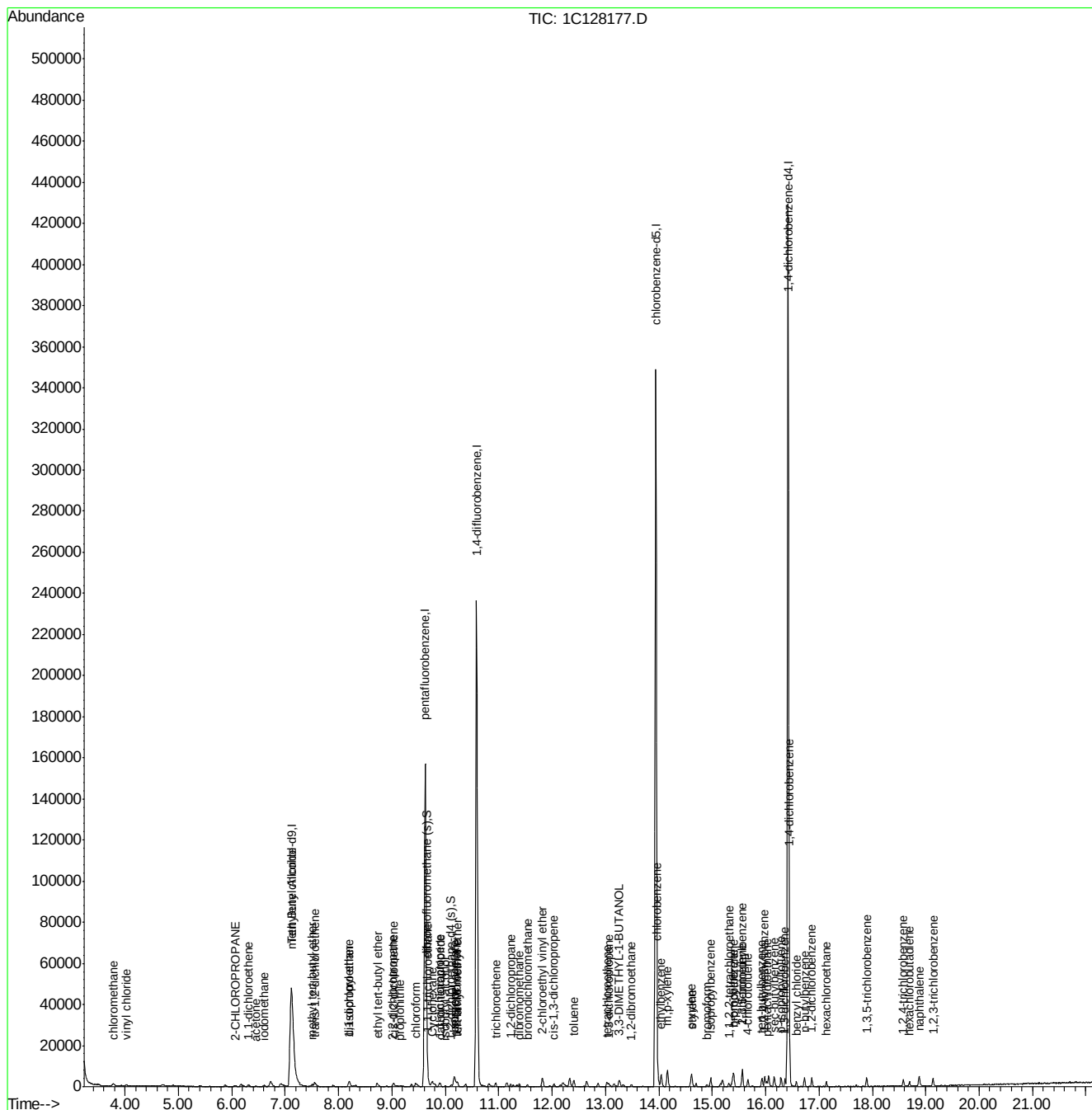
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
90) 1,3-dichloropropane	13.06	76	1226	0.46	ug/L	93
92) 3,3-DIMETHYL-1-BUTANOL	13.26	57	1650	4.75	ug/L	93
94) 1,2-dibromoethane	13.48	107	744	0.52	ug/L	81
95) chlorobenzene	13.97	112	2274	0.48	ug/L	99
97) ethylbenzene	14.05	91	3856	0.44	ug/L	97
98) m,p-xylene	14.16	106	2861	0.90	ug/L	97
99) o-xylene	14.61	106	1511	0.47	ug/L #	80
100) styrene	14.62	104	2474	0.47	ug/L	97
102) bromoform	14.90	173	764	0.50	ug/L	92
104) isopropylbenzene	14.97	105	4145	0.47	ug/L	94
107) bromobenzene	15.40	156	1057	0.47	ug/L	91
108) 1,1,2,2-tetrachloroethane	15.31	83	1526	0.51	ug/L	79
111) n-propylbenzene	15.41	91	4799	0.47	ug/L	97
112) 2-chlorotoluene	15.56	126	1014	0.58	ug/L	84
113) 4-chlorotoluene	15.67	91	3051	0.50	ug/L	91
114) 1,3,5-trimethylbenzene	15.57	105	3488	0.46	ug/L	96
115) tert-butylbenzene	15.93	119	3058	0.50	ug/L	98
116) pentachloroethane	16.02	167	673	0.57	ug/L #	76
117) 1,2,4-trimethylbenzene	15.99	105	3619	0.47	ug/L	94
118) sec-butylbenzene	16.16	105	4682	0.46	ug/L	99
119) 1,3-dichlorobenzene	16.36	146	2275	0.48	ug/L	99
120) p-isopropyltoluene	16.29	119	3980	0.48	ug/L	95
122) 1,4-dichlorobenzene	16.45	146	2657	0.50	ug/L	91
123) benzyl chloride	16.58	91	2990	0.49	ug/L	91
124) 1,2-dichlorobenzene	16.86	146	2410	0.52	ug/L	96
125) n-butylbenzene	16.72	92	2058	0.47	ug/L	80
127) 1,3,5-trichlorobenzene	17.90	180	2014	0.51	ug/L	97
128) 1,2,4-trichlorobenzene	18.58	180	1894	0.52	ug/L	88
129) hexachlorobutadiene	18.70	225	959	0.53	ug/L	95
130) naphthalene	18.88	128	5222	0.52	ug/L	99
131) 1,2,3-trichlorobenzene	19.14	180	1775	0.51	ug/L	98
132) hexachloroethane	17.14	201	636	0.53	ug/L	79

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

```
Data Path   : C:\MSDCHEM\1\DATA\  
Data File  : 1C128177.D  
Acq On     : 12 May 2014  12:54 pm  
Operator   : mariceld  
Sample     : ic5716-0.5  
Misc       : MS66796,V1C5716,5,,,,,1  
ALS Vial   : 5      Sample Multiplier: 1
```

Quant Time: May 13 12:50:46 2014
Quant Method : C:\MSDCHEM\1\METHODS\M1C5716.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Tue May 13 08:40:48 2014
Response via : Initial Calibration



M1C5716.M Wed May 14 09:10:20 2014 RPT1

Page: 3

7.6.2

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : 1C128178.D
 Acq On : 12 May 2014 1:22 pm
 Operator : mariceld
 Sample : ic5716-1
 Misc : MS66796,V1C5716,5,,,1
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 13 12:53:26 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M1C5716.M
 Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
 QLast Update : Tue May 13 08:40:58 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.13	65	136662	500.00	ug/L	0.00
4) pentafluorobenzene	9.63	168	150079	50.00	ug/L	0.00
58) 1,4-difluorobenzene	10.59	114	232483	50.00	ug/L	0.00
88) chlorobenzene-d5	13.94	117	214228	50.00	ug/L	0.00
103) 1,4-dichlorobenzene-d4	16.42	152	131788	50.00	ug/L	0.00

System Monitoring Compounds

52) dibromofluoromethane (s)	9.66	113	2165	1.08	ug/L	0.00
Spiked Amount	50.000	Range	79 - 120	Recovery	=	2.16%#
53) 1,2-dichloroethane-d4 (s)	10.11	65	2216	1.10	ug/L	0.01
Spiked Amount	50.000	Range	72 - 123	Recovery	=	2.20%#
80) toluene-d8 (s)	12.33	98	7780	0.87	ug/L	0.01
Spiked Amount	50.000	Range	78 - 119	Recovery	=	1.74%#
105) 4-bromofluorobenzene (s)	15.19	95	3235	0.84	ug/L	0.00
Spiked Amount	50.000	Range	74 - 119	Recovery	=	1.68%#

Target Compounds

						Qvalue
2) tertiary butyl alcohol	7.27	59	1764	5.41	ug/L	100
9) chlorodifluoromethane	3.52	51	1669	1.46	ug/L	64
10) dichlorodifluoromethane	3.50	85	2756	1.90	ug/L	86
12) chloromethane	3.78	50	3787	1.14	ug/L	93
13) vinyl chloride	4.04	62	3415	1.29	ug/L	92
14) bromomethane	4.71	94	2095	1.53	ug/L	91
15) chloroethane	4.90	64	1428	1.27	ug/L	73
19) trichlorofluoromethane	5.42	101	3095	1.40	ug/L	85
20) ethyl ether	5.88	74	923	0.93	ug/L	88
22) acrolein	6.16	56	4967	12.66	ug/L	91
23) 1,1-dichloroethene	6.31	96	1851	1.23	ug/L	87
24) acetone	6.45	43	981	1.28	ug/L #	55
27) iodomethane	6.61	142	3918	1.36	ug/L	97
29) 2-CHLOROPROPANE	6.06	43	4082	1.44	ug/L #	80
30) methylene chloride	7.13	84	2115	1.12	ug/L	91
31) methyl acetate	6.96	43	1772	1.49	ug/L #	51
32) methyl tert butyl ether	7.51	73	6722	1.21	ug/L	95
33) trans-1,2-dichloroethene	7.56	96	1983	1.75	ug/L	93
35) di-isopropyl ether	8.20	45	7805	1.33	ug/L #	57
37) 1,1-dichloroethane	8.20	63	3928	1.23	ug/L	98
38) chloroprene	8.33	53	2804	1.70	ug/L	90
39) acrylonitrile	7.55	53	4427	7.19	ug/L	96
41) ethyl tert-butyl ether	8.72	59	7058	1.27	ug/L	94
43) 2,2-dichloropropane	9.02	77	3283	1.37	ug/L	82
44) cis-1,2-dichloroethene	9.04	96	2071	1.49	ug/L #	80
45) propionitrile	9.15	54	3918	16.56	ug/L #	62
46) methylacrylate	9.17	55	2316	1.65	ug/L #	75
47) bromochloromethane	9.38	128	906	1.21	ug/L	92
49) chloroform	9.45	85	2323	1.28	ug/L	92
50) T-BUTYL FORMATE	9.47	59	2075	1.44	ug/L #	85
51) isobutyl alcohol	9.99	43	1511	4.52	ug/L #	91
54) freon 113	6.28	151	1196	0.97	ug/L	91
56) 1,1,1-trichloroethane	9.69	97	3021	1.32	ug/L	84

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : 1C128178.D
 Acq On : 12 May 2014 1:22 pm
 Operator : mariceld
 Sample : ic5716-1
 Misc : MS66796,V1C5716,5,,,1
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 13 12:53:26 2014

Quant Method : C:\MSDCHEM\1\METHODS\M1C5716.M

Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM

QLast Update : Tue May 13 08:40:58 2014

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
57) Cyclohexane	9.76	84	3327	1.43	ug/L	91
59) ISO-OCTANE	10.18	57	8560	1.43	ug/L	98
60) epichlorohydrin	11.95	57	1457	6.42	ug/L	52
61) n-butyl alcohol	10.79	56	4914	80.40	ug/L	93
62) carbon tetrachloride	9.91	117	2860	1.38	ug/L	95
63) 1,1-dichloropropene	9.90	75	2655	1.36	ug/L	94
64) hexane	7.91	57	2446	2.03	ug/L	100
65) benzene	10.17	78	8447	1.16	ug/L	96
66) tert-amyl methyl ether	10.22	73	6988	1.24	ug/L	99
67) heptane	10.38	57	1436	0.57	ug/L	92
68) isopropyl acetate	10.15	43	6303	1.28	ug/L	92
69) 1,2-dichloroethane	10.21	62	2716	1.44	ug/L	94
70) trichloroethene	10.94	95	1992	1.38	ug/L	93
71) 2-nitropropane	11.79	41	1013	1.18	ug/L #	45
72) 2-chloroethyl vinyl ether	11.81	63	7181	6.49	ug/L	99
74) 1,2-dichloropropane	11.21	63	2213	1.36	ug/L	97
75) dibromomethane	11.39	93	1338	1.26	ug/L	91
76) methylcyclohexane	11.15	83	3351	1.45	ug/L	95
77) bromodichloromethane	11.54	83	2829	1.21	ug/L	96
79) cis-1,3-dichloropropene	12.03	75	3428	1.17	ug/L	97
81) 4-methyl-2-pentanone	12.15	58	1089	1.45	ug/L	92
82) toluene	12.41	92	4900	1.13	ug/L	85
83) 3-methyl-1-butanol	12.20	55	3327	31.63	ug/L	95
84) trans-1,3-dichloropropene	12.64	75	3295	1.36	ug/L	96
85) ethyl methacrylate	12.65	69	3021	1.47	ug/L	97
86) 1,1,2-trichloroethane	12.86	83	1694	1.30	ug/L	98
87) 2-hexanone	13.07	58	1014	1.04	ug/L	83
89) tetrachloroethene	13.03	164	1804	1.54	ug/L	94
90) 1,3-dichloropropane	13.06	76	3367	1.27	ug/L	94
91) butyl acetate	13.15	56	1707	1.10	ug/L	100
92) 3,3-DIMETHYL-1-BUTANOL	13.26	57	4003	11.38	ug/L	99
93) dibromochloromethane	13.33	129	2401	1.33	ug/L	93
94) 1,2-dibromoethane	13.49	107	2102	1.41	ug/L	89
95) chlorobenzene	13.98	112	5793	1.20	ug/L	94
96) 1,1,1,2-tetrachloroethane	14.05	131	2335	1.35	ug/L	92
97) ethylbenzene	14.05	91	9938	1.16	ug/L	95
98) m,p-xylene	14.16	106	7412	2.34	ug/L	94
99) o-xylene	14.61	106	3990	1.23	ug/L	96
100) styrene	14.62	104	6182	1.16	ug/L	96
102) bromoform	14.90	173	2080	1.32	ug/L	93
104) isopropylbenzene	14.97	105	10251	1.13	ug/L	97
107) bromobenzene	15.39	156	2811	1.21	ug/L	96
108) 1,1,2,2-tetrachloroethane	15.31	83	4135	1.30	ug/L	95
109) trans-1,4-dichloro-2-buten	15.35	53	1008	1.17	ug/L	84
110) 1,2,3-trichloropropane	15.38	110	920	1.50	ug/L	94
111) n-propylbenzene	15.41	91	12130	1.16	ug/L	99
112) 2-chlorotoluene	15.56	126	2578	1.32	ug/L	90
113) 4-chlorotoluene	15.67	91	7814	1.21	ug/L	96
114) 1,3,5-trimethylbenzene	15.57	105	8689	1.12	ug/L	95
115) tert-butylbenzene	15.93	119	7751	1.20	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 1C128178.D
Acq On : 12 May 2014 1:22 pm
Operator : mariceld
Sample : ic5716-1
Misc : MS66796,V1C5716,5,,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 13 12:53:26 2014
Quant Method : C:\MSDCHEM\1\METHODS\M1C5716.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Tue May 13 08:40:58 2014
Response via : Initial Calibration

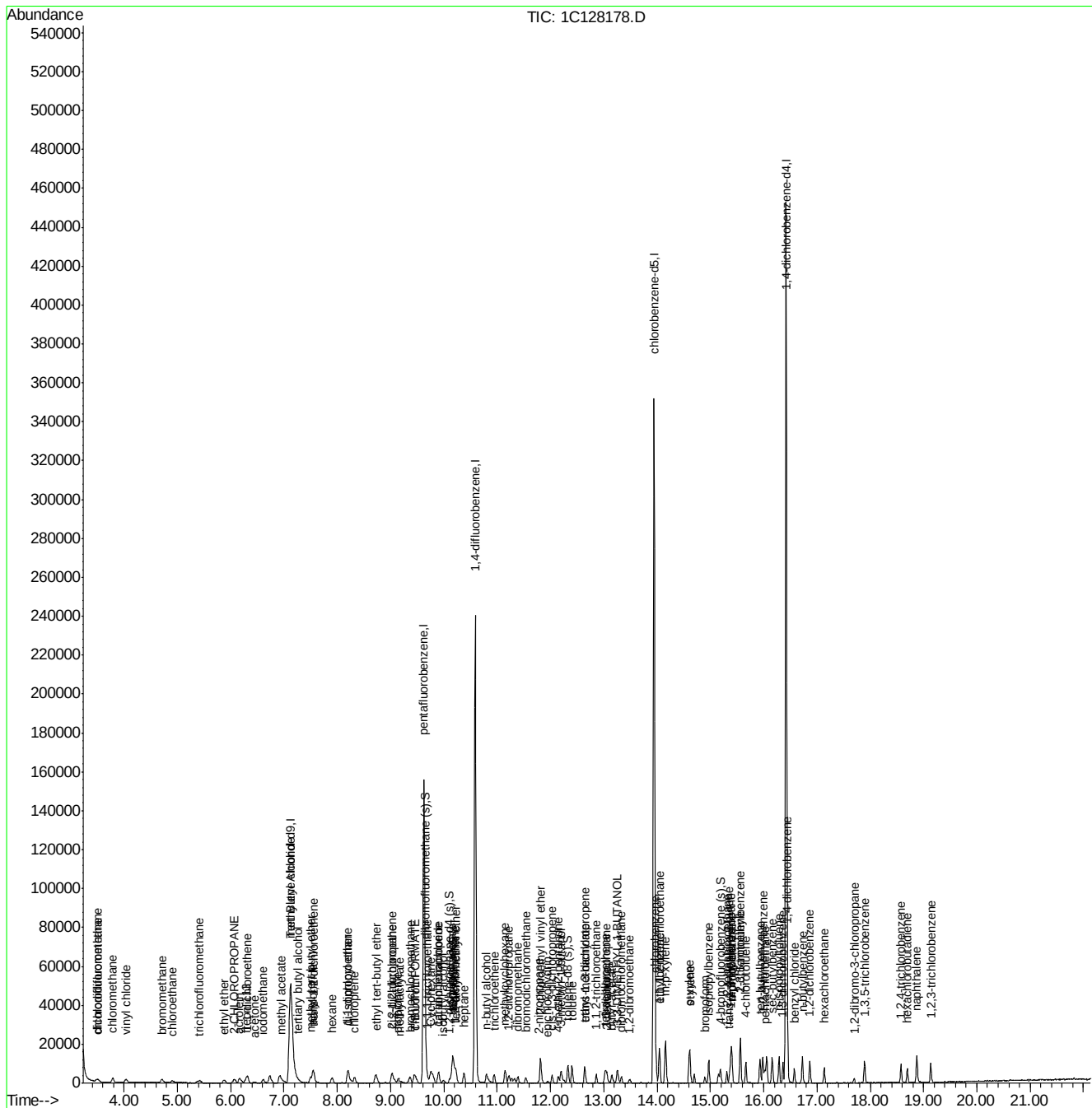
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
116) pentachloroethane	16.02	167	2009	1.53	ug/L	94
117) 1,2,4-trimethylbenzene	15.98	105	8971	1.14	ug/L	99
118) sec-butylbenzene	16.16	105	11889	1.15	ug/L	99
119) 1,3-dichlorobenzene	16.36	146	5874	1.20	ug/L	97
120) p-isopropyltoluene	16.29	119	9703	1.12	ug/L	98
122) 1,4-dichlorobenzene	16.45	146	6116	1.10	ug/L	98
123) benzyl chloride	16.58	91	7281	1.14	ug/L	97
124) 1,2-dichlorobenzene	16.86	146	6171	1.25	ug/L	98
125) n-butylbenzene	16.73	92	5173	1.15	ug/L	91
126) 1,2-dibromo-3-chloropropan	17.70	75	768	1.36	ug/L	90
127) 1,3,5-trichlorobenzene	17.89	180	4817	1.15	ug/L	97
128) 1,2,4-trichlorobenzene	18.58	180	4515	1.16	ug/L	90
129) hexachlorobutadiene	18.70	225	2408	1.24	ug/L	97
130) naphthalene	18.87	128	12679	1.27	ug/L	98
131) 1,2,3-trichlorobenzene	19.14	180	4490	1.26	ug/L	92
132) hexachloroethane	17.14	201	1828	1.41	ug/L	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 1C128178.D
Acq On : 12 May 2014 1:22 pm
Operator : maricelnd
Sample : ic5716-1
Misc : MS66796,V1C5716,5,,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 13 12:53:26 2014
Quant Method : C:\MSDCHEM\1\METHODS\M1C5716.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Tue May 13 08:40:58 2014
Response via : Initial Calibration



Page: 4

7.6.3

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : 1C128179.D
 Acq On : 12 May 2014 1:50 pm
 Operator : mariceld
 Sample : ic5716-2
 Misc : MS66796,V1C5716,5,,,,,1
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 13 12:57:37 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M1C5716.M
 Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
 QLast Update : Tue May 13 08:41:09 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.12	65	138069	500.00	ug/L	0.00
4) pentafluorobenzene	9.63	168	154446	50.00	ug/L	0.00
58) 1,4-difluorobenzene	10.59	114	237056	50.00	ug/L	0.00
88) chlorobenzene-d5	13.94	117	216169	50.00	ug/L	0.00
103) 1,4-dichlorobenzene-d4	16.42	152	131472	50.00	ug/L	0.00

System Monitoring Compounds

52) dibromofluoromethane (s)	9.66	113	3806	1.81	ug/L	0.00
Spiked Amount	50.000	Range	79 - 120	Recovery	=	3.62%#
53) 1,2-dichloroethane-d4 (s)	10.10	65	4470	2.09	ug/L	0.00
Spiked Amount	50.000	Range	72 - 123	Recovery	=	4.18%#
80) toluene-d8 (s)	12.33	98	14053	1.59	ug/L	0.00
Spiked Amount	50.000	Range	78 - 119	Recovery	=	3.18%#
105) 4-bromofluorobenzene (s)	15.19	95	5634	1.53	ug/L	0.00
Spiked Amount	50.000	Range	74 - 119	Recovery	=	3.06%#

Target Compounds

Qvalue

2) tertiary butyl alcohol	7.25	59	3549	10.35	ug/L	100
3) 1,4-dioxane	11.37	88	1196	52.89	ug/L	80
9) chlorodifluoromethane	3.50	51	3251	2.39	ug/L	79
10) dichlorodifluoromethane	3.50	85	5474	2.82	ug/L	92
12) chloromethane	3.78	50	7111	2.01	ug/L	95
13) vinyl chloride	4.04	62	6307	2.15	ug/L	97
14) bromomethane	4.71	94	3998	2.50	ug/L	98
15) chloroethane	4.90	64	2710	2.15	ug/L	93
19) trichlorofluoromethane	5.42	101	5889	2.28	ug/L	93
20) ethyl ether	5.87	74	1980	2.01	ug/L	93
22) acrolein	6.15	56	10334	24.00	ug/L	100
23) 1,1-dichloroethene	6.32	96	3300	1.98	ug/L	93
24) acetone	6.46	43	1641	1.83	ug/L	# 55
26) allyl chloride	6.92	76	1698	0.31	ug/L	# 87
27) iodomethane	6.61	142	6447	2.00	ug/L	95
28) carbon disulfide	6.73	76	14616	1.21	ug/L	98
29) 2-CHLOROPROPANE	6.07	43	7022	2.17	ug/L	# 89
30) methylene chloride	7.13	84	4025	2.02	ug/L	91
31) methyl acetate	6.95	43	3557	2.50	ug/L	90
32) methyl tert butyl ether	7.51	73	11783	1.96	ug/L	94
33) trans-1,2-dichloroethene	7.55	96	3351	2.42	ug/L	97
35) di-isopropyl ether	8.20	45	14222	2.17	ug/L	# 62
37) 1,1-dichloroethane	8.20	63	6981	1.97	ug/L	95
38) chloroprene	8.32	53	5321	2.67	ug/L	96
39) acrylonitrile	7.54	53	8612	12.25	ug/L	96
41) ethyl tert-butyl ether	8.72	59	12975	2.12	ug/L	95
43) 2,2-dichloropropane	9.02	77	5498	2.04	ug/L	92
44) cis-1,2-dichloroethene	9.04	96	3658	2.28	ug/L	94
45) propionitrile	9.13	54	7399	26.11	ug/L	# 66
46) methylacrylate	9.15	55	4612	2.62	ug/L	# 82
47) bromochloromethane	9.36	128	1935	2.35	ug/L	92
49) chloroform	9.44	85	4180	2.09	ug/L	96
50) T-BUTYL FORMATE	9.47	59	3611	2.12	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : 1C128179.D
 Acq On : 12 May 2014 1:50 pm
 Operator : mariceld
 Sample : ic5716-2
 Misc : MS66796,V1C5716,5,,,,,1
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 13 12:57:37 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M1C5716.M
 Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
 QLast Update : Tue May 13 08:41:09 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) isobutyl alcohol	9.98	43	3133	10.55	ug/L	# 95
54) freon 113	6.28	151	2576	2.06	ug/L	91
55) methacrylonitrile	9.34	67	1548	1.69	ug/L	93
56) 1,1,1-trichloroethane	9.69	97	5487	2.16	ug/L	88
57) Cyclohexane	9.76	84	5488	2.07	ug/L	95
59) ISO-OCTANE	10.17	57	16149	2.39	ug/L	98
60) epichlorohydrin	11.94	57	2878	11.36	ug/L	93
61) n-butyl alcohol	10.79	56	9509	132.45	ug/L	89
62) carbon tetrachloride	9.91	117	4933	2.13	ug/L	93
63) 1,1-dichloropropene	9.89	75	4711	2.17	ug/L	97
64) hexane	7.91	57	4570	2.96	ug/L	90
65) benzene	10.17	78	14431	1.87	ug/L	100
66) tert-amyl methyl ether	10.23	73	13017	2.14	ug/L	97
67) heptane	10.38	57	2809	1.22	ug/L	97
68) isopropyl acetate	10.14	43	11801	2.19	ug/L	96
69) 1,2-dichloroethane	10.20	62	4836	2.27	ug/L	98
70) trichloroethene	10.94	95	3456	2.14	ug/L	90
71) 2-nitropropane	11.78	41	1724	1.81	ug/L	95
72) 2-chloroethyl vinyl ether	11.81	63	13399	11.05	ug/L	99
74) 1,2-dichloropropane	11.22	63	3850	2.12	ug/L	93
75) dibromomethane	11.39	93	2432	2.06	ug/L	97
76) methylcyclohexane	11.15	83	6449	2.46	ug/L	99
77) bromodichloromethane	11.54	83	4921	1.96	ug/L	99
79) cis-1,3-dichloropropene	12.03	75	6005	1.93	ug/L	98
81) 4-methyl-2-pentanone	12.15	58	1920	2.18	ug/L	87
82) toluene	12.40	92	8542	1.87	ug/L	97
83) 3-methyl-1-butanol	12.19	55	6112	49.76	ug/L	90
84) trans-1,3-dichloropropene	12.63	75	5643	2.10	ug/L	94
85) ethyl methacrylate	12.64	69	4986	2.13	ug/L	97
86) 1,1,2-trichloroethane	12.86	83	2934	2.01	ug/L	97
87) 2-hexanone	13.06	58	1642	1.62	ug/L	85
89) tetrachloroethene	13.03	164	3000	2.23	ug/L	96
90) 1,3-dichloropropane	13.05	76	5662	1.98	ug/L	94
91) butyl acetate	13.15	56	3327	2.08	ug/L	87
92) 3,3-DIMETHYL-1-BUTANOL	13.26	57	7016	19.11	ug/L	97
93) dibromochloromethane	13.33	129	4126	2.09	ug/L	93
94) 1,2-dibromoethane	13.49	107	3712	2.24	ug/L	94
95) chlorobenzene	13.98	112	9730	1.90	ug/L	99
96) 1,1,1,2-tetrachloroethane	14.05	131	3784	1.99	ug/L	93
97) ethylbenzene	14.04	91	16740	1.86	ug/L	98
98) m,p-xylene	14.16	106	12416	3.73	ug/L	95
99) o-xylene	14.61	106	6569	1.89	ug/L	95
100) styrene	14.62	104	10469	1.87	ug/L	98
102) bromoform	14.90	173	3237	1.89	ug/L	94
104) isopropylbenzene	14.97	105	16866	1.81	ug/L	98
106) cyclohexanone	15.15	55	3476	18.69	ug/L	94
107) bromobenzene	15.39	156	4504	1.85	ug/L	98
108) 1,1,2,2-tetrachloroethane	15.31	83	6129	1.80	ug/L	99
109) trans-1,4-dichloro-2-buten	15.36	53	1599	1.71	ug/L	95
110) 1,2,3-trichloropropane	15.38	110	1491	2.09	ug/L	94

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : 1C128179.D
 Acq On : 12 May 2014 1:50 pm
 Operator : mariceld
 Sample : ic5716-2
 Misc : MS66796,V1C5716,5,,,,1
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 13 12:57:37 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M1C5716.M
 Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
 QLast Update : Tue May 13 08:41:09 2014
 Response via : Initial Calibration

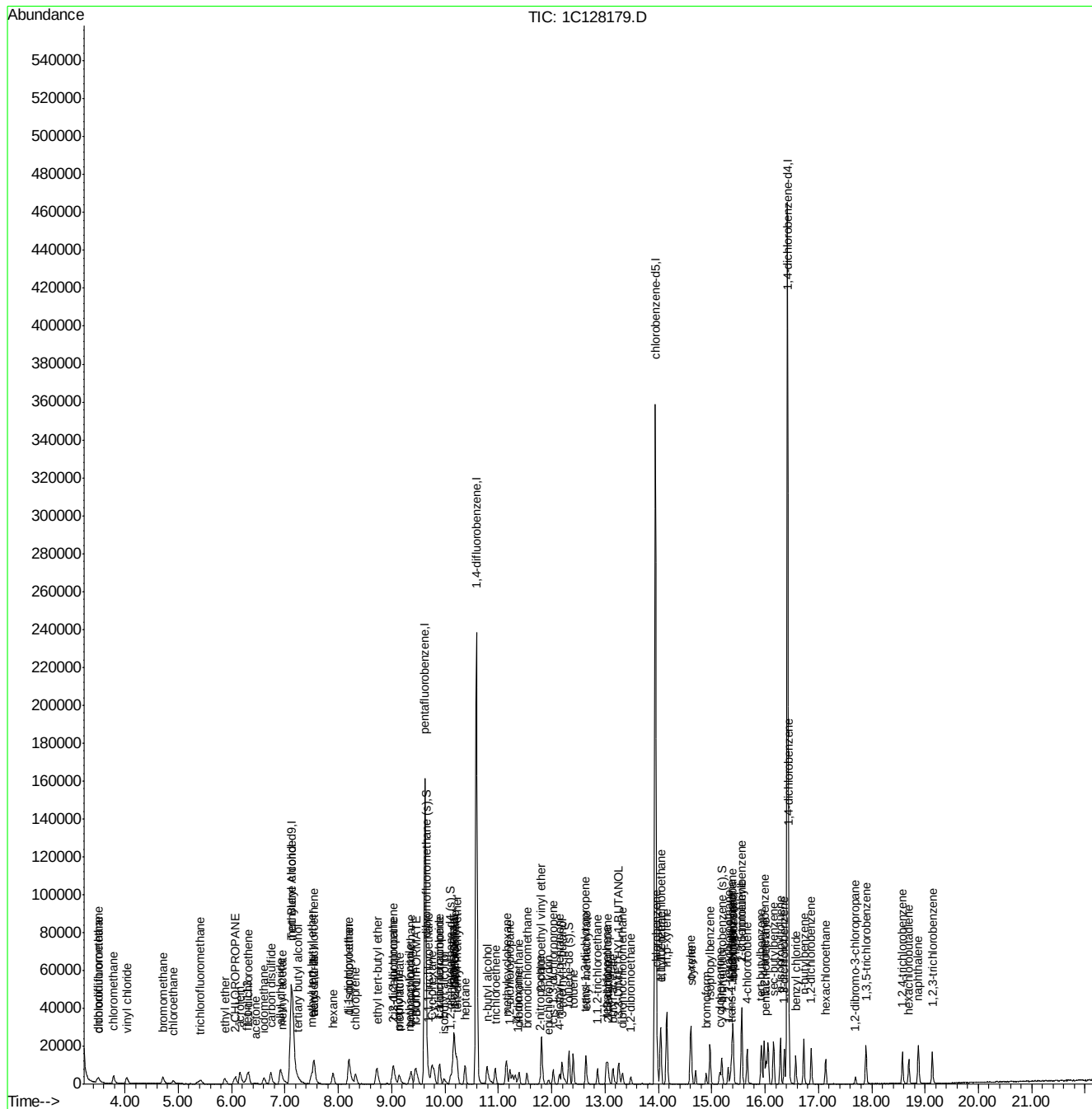
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
111) n-propylbenzene	15.41	91	19780	1.82	ug/L	96
112) 2-chlorotoluene	15.56	126	4233	2.02	ug/L	95
113) 4-chlorotoluene	15.66	91	12561	1.85	ug/L	96
114) 1,3,5-trimethylbenzene	15.57	105	15031	1.89	ug/L	99
115) tert-butylbenzene	15.93	119	12643	1.86	ug/L	97
116) pentachloroethane	16.02	167	3079	2.08	ug/L	89
117) 1,2,4-trimethylbenzene	15.99	105	14511	1.78	ug/L	87
118) sec-butylbenzene	16.16	105	19879	1.85	ug/L	99
119) 1,3-dichlorobenzene	16.36	146	9310	1.81	ug/L	97
120) p-isopropyltoluene	16.29	119	16398	1.84	ug/L	97
122) 1,4-dichlorobenzene	16.45	146	9839	1.72	ug/L	94
123) benzyl chloride	16.58	91	13334	2.02	ug/L	96
124) 1,2-dichlorobenzene	16.87	146	9348	1.78	ug/L	97
125) n-butylbenzene	16.73	92	8795	1.89	ug/L	96
126) 1,2-dibromo-3-chloropropan	17.70	75	1209	1.91	ug/L	88
127) 1,3,5-trichlorobenzene	17.89	180	8205	1.89	ug/L	99
128) 1,2,4-trichlorobenzene	18.58	180	7203	1.78	ug/L	98
129) hexachlorobutadiene	18.70	225	4040	1.96	ug/L	98
130) naphthalene	18.87	128	19336	1.89	ug/L	97
131) 1,2,3-trichlorobenzene	19.14	180	6855	1.87	ug/L	97
132) hexachloroethane	17.14	201	3135	2.20	ug/L	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

```
Data Path   : C:\MSDCHEM\1\DATA\  
Data File  : 1C128179.D  
Acq On     : 12 May 2014      1:50 pm  
Operator   : mariceld  
Sample     : ic5716-2  
Misc       : MS66796,V1C5716,5,,,,,1  
ALS Vial   : 7      Sample Multiplier: 1
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Quant Time: May 13 12:57:37 2014
Quant Method : C:\MSDCHEM\1\METHODS\M1C5716.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Tue May 13 08:41:09 2014
Response via : Initial Calibration



M1C5716.M Wed May 14 09:10:23 2014 RPT1

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7.6.4

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : 1C128180.D
 Acq On : 12 May 2014 2:18 pm
 Operator : mariceld
 Sample : ic5716-5
 Misc : MS66796,V1C5716,5,,,1
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 13 12:58:25 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M1C5716.M
 Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
 QLast Update : Tue May 13 08:41:19 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.12	65	135381	500.00	ug/L	-0.01
4) pentafluorobenzene	9.63	168	152593	50.00	ug/L	0.00
58) 1,4-difluorobenzene	10.58	114	233054	50.00	ug/L	0.00
88) chlorobenzene-d5	13.94	117	213614	50.00	ug/L	0.00
103) 1,4-dichlorobenzene-d4	16.42	152	132358	50.00	ug/L	0.00

System Monitoring Compounds

52) dibromofluoromethane (s)	9.66	113	8953	4.40	ug/L	0.00
Spiked Amount	50.000	Range	79 - 120	Recovery	=	8.80%#
53) 1,2-dichloroethane-d4 (s)	10.10	65	11073	5.19	ug/L	0.00
Spiked Amount	50.000	Range	72 - 123	Recovery	=	10.38%#
80) toluene-d8 (s)	12.32	98	32331	3.88	ug/L	0.00
Spiked Amount	50.000	Range	78 - 119	Recovery	=	7.76%#
105) 4-bromofluorobenzene (s)	15.19	95	12721	3.59	ug/L	0.00
Spiked Amount	50.000	Range	74 - 119	Recovery	=	7.18%#

Target Compounds

						Qvalue
2) tertiary butyl alcohol	7.26	59	8437	24.80	ug/L	100
3) 1,4-dioxane	11.37	88	3315	146.69	ug/L	97
9) chlorodifluoromethane	3.50	51	8380	5.95	ug/L	99
10) dichlorodifluoromethane	3.49	85	12769	6.04	ug/L	96
12) chloromethane	3.78	50	16842	4.82	ug/L	99
13) vinyl chloride	4.04	62	15627	5.32	ug/L	98
14) bromomethane	4.70	94	9350	5.64	ug/L	98
15) chloroethane	4.90	64	6814	5.37	ug/L	97
19) trichlorofluoromethane	5.41	101	14350	5.44	ug/L	92
20) ethyl ether	5.87	74	4959	5.08	ug/L	99
22) acrolein	6.14	56	25453	57.52	ug/L	98
23) 1,1-dichloroethene	6.31	96	8750	5.32	ug/L	97
24) acetone	6.43	43	3963	4.60	ug/L #	83
25) acetonitrile	6.90	40	12694	40.30	ug/L	90
26) allyl chloride	6.91	76	4624	1.04	ug/L #	82
27) iodomethane	6.60	142	17426	5.47	ug/L	99
28) carbon disulfide	6.73	76	34491	3.14	ug/L	97
29) 2-CHLOROPROPANE	6.06	43	18335	5.64	ug/L #	92
30) methylene chloride	7.13	84	10269	5.20	ug/L	94
31) methyl acetate	6.94	43	9536	6.39	ug/L	97
32) methyl tert butyl ether	7.50	73	29580	5.00	ug/L	99
33) trans-1,2-dichloroethene	7.54	96	9074	6.36	ug/L	99
34) 1-CHLOROPROPANE	7.15	42	28989	1.38	ug/L #	85
35) di-isopropyl ether	8.20	45	34997	5.32	ug/L #	63
36) 2-butanone	9.04	72	1060	3.92	ug/L #	54
37) 1,1-dichloroethane	8.19	63	17990	5.16	ug/L	97
38) chloroprene	8.32	53	13072	6.21	ug/L	95
39) acrylonitrile	7.52	53	22553	31.06	ug/L	98
41) ethyl tert-butyl ether	8.72	59	31862	5.21	ug/L	98
42) ethyl acetate	9.06	45	1658	5.83	ug/L #	39
43) 2,2-dichloropropane	9.01	77	14366	5.37	ug/L	99
44) cis-1,2-dichloroethene	9.03	96	9917	6.08	ug/L	91
45) propionitrile	9.13	54	18305	61.61	ug/L	86

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : 1C128180.D
 Acq On : 12 May 2014 2:18 pm
 Operator : mariceld
 Sample : ic5716-5
 Misc : MS66796,V1C5716,5,,,,,1
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 13 12:58:25 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M1C5716.M
 Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
 QLast Update : Tue May 13 08:41:19 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) methylacrylate	9.13	55	12863	6.87	ug/L	97
47) bromochloromethane	9.36	128	4829	5.68	ug/L	96
48) tetrahydrofuran	9.44	72	1532	6.26	ug/L #	56
49) chloroform	9.44	85	10585	5.32	ug/L	96
50) T-BUTYL FORMATE	9.47	59	9433	5.53	ug/L	99
51) isobutyl alcohol	9.98	43	7475	28.13	ug/L #	96
54) freon 113	6.28	151	6629	5.31	ug/L	97
55) methacrylonitrile	9.32	67	4280	5.12	ug/L	95
56) 1,1,1-trichloroethane	9.69	97	14279	5.61	ug/L	94
57) Cyclohexane	9.76	84	14441	5.48	ug/L	99
59) ISO-OCTANE	10.17	57	39244	5.69	ug/L	99
60) epichlorohydrin	11.93	57	6793	26.37	ug/L	98
61) n-butyl alcohol	10.78	56	23079	307.05	ug/L	98
62) carbon tetrachloride	9.90	117	12725	5.52	ug/L	95
63) 1,1-dichloropropene	9.89	75	12897	5.94	ug/L	94
64) hexane	7.90	57	11060	6.65	ug/L	96
65) benzene	10.17	78	36812	4.92	ug/L	98
66) tert-amyl methyl ether	10.22	73	31457	5.18	ug/L	97
67) heptane	10.37	57	7146	3.43	ug/L	94
68) isopropyl acetate	10.14	43	28944	5.36	ug/L	97
69) 1,2-dichloroethane	10.20	62	12085	5.62	ug/L	99
70) trichloroethene	10.94	95	9183	5.71	ug/L	97
71) 2-nitropropane	11.78	41	4402	4.86	ug/L	99
72) 2-chloroethyl vinyl ether	11.81	63	32486	26.69	ug/L	98
73) methyl methacrylate	11.26	100	2321	5.49	ug/L #	86
74) 1,2-dichloropropane	11.22	63	10269	5.69	ug/L	98
75) dibromomethane	11.39	93	5949	5.10	ug/L	99
76) methylcyclohexane	11.15	83	15475	5.73	ug/L	98
77) bromodichloromethane	11.54	83	12453	5.06	ug/L	100
79) cis-1,3-dichloropropene	12.02	75	15931	5.25	ug/L	99
81) 4-methyl-2-pentanone	12.14	58	5139	5.81	ug/L	99
82) toluene	12.40	92	21938	4.95	ug/L	96
83) 3-methyl-1-butanol	12.19	55	15133	119.48	ug/L	97
84) trans-1,3-dichloropropene	12.63	75	14441	5.41	ug/L	98
85) ethyl methacrylate	12.64	69	13169	5.65	ug/L	98
86) 1,1,2-trichloroethane	12.85	83	7550	5.25	ug/L	95
87) 2-hexanone	13.06	58	4526	4.84	ug/L	97
89) tetrachloroethene	13.03	164	7896	5.81	ug/L	97
90) 1,3-dichloropropane	13.05	76	14346	5.09	ug/L	97
91) butyl acetate	13.15	56	7790	4.89	ug/L	98
92) 3,3-DIMETHYL-1-BUTANOL	13.26	57	16794	46.70	ug/L	99
93) dibromochloromethane	13.33	129	10209	5.19	ug/L	99
94) 1,2-dibromoethane	13.48	107	9015	5.37	ug/L	98
95) chlorobenzene	13.98	112	24843	4.96	ug/L	94
96) 1,1,1,2-tetrachloroethane	14.05	131	10097	5.38	ug/L	97
97) ethylbenzene	14.04	91	43513	4.96	ug/L	100
98) m,p-xylene	14.16	106	32322	9.96	ug/L	97
99) o-xylene	14.60	106	16399	4.84	ug/L	97
100) styrene	14.62	104	26913	4.94	ug/L	98
102) bromoform	14.90	173	8546	5.09	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : 1C128180.D
 Acq On : 12 May 2014 2:18 pm
 Operator : mariceld
 Sample : ic5716-5
 Misc : MS66796,V1C5716,5,,,,,1
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 13 12:58:25 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M1C5716.M
 Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
 QLast Update : Tue May 13 08:41:19 2014
 Response via : Initial Calibration

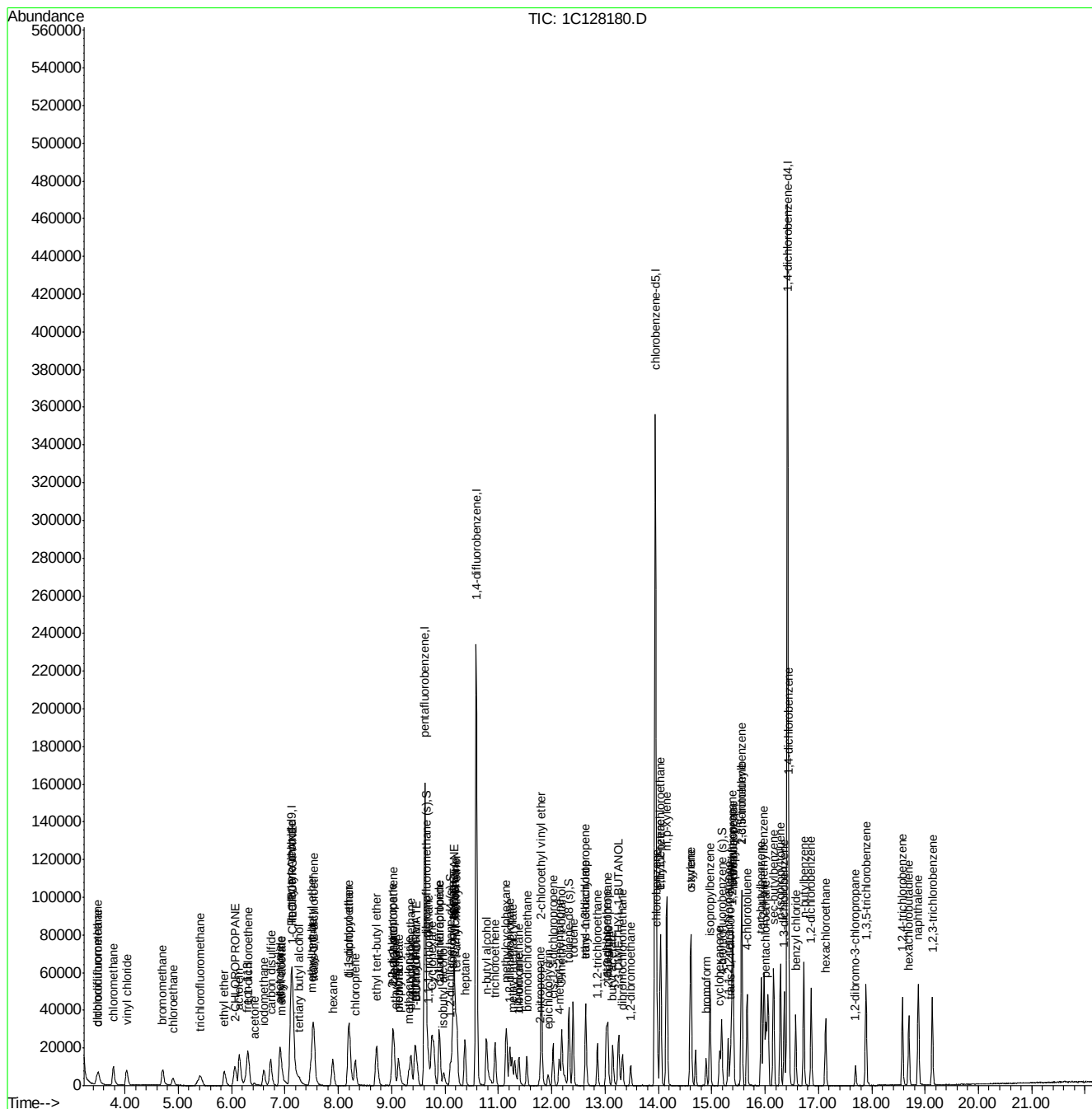
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) isopropylbenzene	14.97	105	44000	4.77	ug/L	97
106) cyclohexanone	15.15	55	10010	54.16	ug/L	99
107) bromobenzene	15.39	156	11917	4.93	ug/L	97
108) 1,1,2,2-tetrachloroethane	15.31	83	15414	4.58	ug/L	97
109) trans-1,4-dichloro-2-buten	15.35	53	4085	4.57	ug/L	96
110) 1,2,3-trichloropropane	15.38	110	3568	4.91	ug/L	93
111) n-propylbenzene	15.41	91	51862	4.83	ug/L	100
112) 2-chlorotoluene	15.56	126	10937	5.17	ug/L	99
113) 4-chlorotoluene	15.66	91	32271	4.80	ug/L	99
114) 1,3,5-trimethylbenzene	15.57	105	38519	4.86	ug/L	98
115) tert-butylbenzene	15.93	119	33498	4.97	ug/L	98
116) pentachloroethane	16.02	167	8227	5.48	ug/L	94
117) 1,2,4-trimethylbenzene	15.98	105	37659	4.69	ug/L	99
118) sec-butylbenzene	16.16	105	51611	4.85	ug/L	99
119) 1,3-dichlorobenzene	16.36	146	24043	4.74	ug/L	99
120) p-isopropyltoluene	16.29	119	43146	4.90	ug/L	99
122) 1,4-dichlorobenzene	16.45	146	24336	4.36	ug/L	98
123) benzyl chloride	16.57	91	30328	4.56	ug/L	98
124) 1,2-dichlorobenzene	16.87	146	24210	4.69	ug/L	98
125) n-butylbenzene	16.73	92	22883	4.93	ug/L	97
126) 1,2-dibromo-3-chloropropan	17.70	75	3253	5.17	ug/L	96
127) 1,3,5-trichlorobenzene	17.90	180	21255	4.92	ug/L	99
128) 1,2,4-trichlorobenzene	18.58	180	19220	4.83	ug/L	93
129) hexachlorobutadiene	18.70	225	10566	5.12	ug/L	97
130) naphthalene	18.87	128	48751	5.02	ug/L	98
131) 1,2,3-trichlorobenzene	19.14	180	18289	5.19	ug/L	100
132) hexachloroethane	17.14	201	8227	5.62	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 1C128180.D
Acq On : 12 May 2014 2:18 pm
Operator : mariceld
Sample : ic5716-5
Misc : MS66796,V1C5716,5,,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 13 12:58:25 2014
Quant Method : C:\MSDCHEM\1\METHODS\M1C5716.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Tue May 13 08:41:19 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : 1C128181.D
 Acq On : 12 May 2014 2:46 pm
 Operator : mariceld
 Sample : ic5716-10
 Misc : MS66796,V1C5716,5,,,,,1
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 13 12:58:47 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M1C5716.M
 Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
 QLast Update : Tue May 13 08:41:29 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.13	65	135485	500.00	ug/L	0.00
4) pentafluorobenzene	9.63	168	157804	50.00	ug/L	0.00
58) 1,4-difluorobenzene	10.59	114	243089	50.00	ug/L	0.00
88) chlorobenzene-d5	13.94	117	219875	50.00	ug/L	0.00
103) 1,4-dichlorobenzene-d4	16.42	152	133557	50.00	ug/L	0.00

System Monitoring Compounds

52) dibromofluoromethane (s)	9.66	113	18052	8.75	ug/L	0.00
Spiked Amount	50.000	Range	79 - 120	Recovery	=	17.50%#
53) 1,2-dichloroethane-d4 (s)	10.10	65	21577	9.70	ug/L	0.00
Spiked Amount	50.000	Range	72 - 123	Recovery	=	19.40%#
80) toluene-d8 (s)	12.33	98	65879	7.87	ug/L	0.00
Spiked Amount	50.000	Range	78 - 119	Recovery	=	15.74%#
105) 4-bromofluorobenzene (s)	15.19	95	25249	7.41	ug/L	0.00
Spiked Amount	50.000	Range	74 - 119	Recovery	=	14.82%#

Target Compounds

Qvalue

2) tertiary butyl alcohol	7.26	59	16715	49.20	ug/L	100
3) 1,4-dioxane	11.36	88	6599	279.65	ug/L	86
9) chlorodifluoromethane	3.51	51	15713	10.40	ug/L	98
10) dichlorodifluoromethane	3.49	85	25622	11.26	ug/L	95
13) vinyl chloride	4.04	62	30307	9.87	ug/L	99
14) bromomethane	4.72	94	18880	10.79	ug/L	99
15) chloroethane	4.91	64	13489	10.13	ug/L	97
19) trichlorofluoromethane	5.41	101	29477	10.62	ug/L	95
20) ethyl ether	5.87	74	10460	10.32	ug/L	89
22) acrolein	6.14	56	52548	112.03	ug/L	97
23) 1,1-dichloroethene	6.32	96	17350	10.07	ug/L	95
24) acetone	6.43	43	7871	9.01	ug/L	# 90
25) acetonitrile	6.90	40	28860	91.55	ug/L	73
26) allyl chloride	6.91	76	9413	2.36	ug/L	# 76
27) iodomethane	6.61	142	34434	10.29	ug/L	99
28) carbon disulfide	6.73	76	64424	6.04	ug/L	99
29) 2-CHLOROPROPANE	6.06	43	36682	10.68	ug/L	# 91
30) methylene chloride	7.13	84	20193	9.82	ug/L	99
31) methyl acetate	6.93	43	19019	11.67	ug/L	92
32) methyl tert butyl ether	7.50	73	60244	9.84	ug/L	100
33) trans-1,2-dichloroethene	7.54	96	18393	11.93	ug/L	98
34) 1-CHLOROPROPANE	7.16	42	47064	2.47	ug/L	# 94
35) di-isopropyl ether	8.20	45	67746	9.85	ug/L	# 68
36) 2-butanone	9.03	72	2611	10.46	ug/L	# 36
37) 1,1-dichloroethane	8.20	63	36512	10.07	ug/L	99
38) chloroprene	8.32	53	25477	11.26	ug/L	98
39) acrylonitrile	7.52	53	46276	59.24	ug/L	99
40) vinyl acetate	8.23	86	2666	9.43	ug/L	42
41) ethyl tert-butyl ether	8.72	59	61703	9.69	ug/L	98
42) ethyl acetate	9.05	45	3388	10.91	ug/L	87
43) 2,2-dichloropropane	9.01	77	27605	9.86	ug/L	97
44) cis-1,2-dichloroethene	9.03	96	20229	11.57	ug/L	98
45) propionitrile	9.12	54	38405	120.34	ug/L	92

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : 1C128181.D
 Acq On : 12 May 2014 2:46 pm
 Operator : mariceld
 Sample : ic5716-10
 Misc : MS66796,V1C5716,5,,,1
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 13 12:58:47 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M1C5716.M
 Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
 QLast Update : Tue May 13 08:41:29 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) methylacrylate	9.13	55	26523	12.74	ug/L	96
47) bromochloromethane	9.36	128	10177	11.27	ug/L	98
48) tetrahydrofuran	9.42	72	3182	11.60	ug/L	93
49) chloroform	9.44	85	21587	10.37	ug/L	98
50) T-BUTYL FORMATE	9.47	59	18857	10.47	ug/L	99
51) isobutyl alcohol	9.97	43	14694	57.68	ug/L	97
54) freon 113	6.28	151	12445	9.49	ug/L	88
55) methacrylonitrile	9.32	67	9280	10.66	ug/L	95
56) 1,1,1-trichloroethane	9.69	97	27812	10.35	ug/L	96
57) Cyclohexane	9.76	84	28453	10.28	ug/L	93
59) ISO-OCTANE	10.18	57	70110	9.52	ug/L	98
60) epichlorohydrin	11.93	57	13625	50.16	ug/L	97
61) n-butyl alcohol	10.77	56	45929	564.37	ug/L	99
62) carbon tetrachloride	9.90	117	25305	10.35	ug/L	99
63) 1,1-dichloropropene	9.89	75	25239	10.81	ug/L	99
64) hexane	7.90	57	20308	11.10	ug/L	99
65) benzene	10.16	78	75785	9.74	ug/L	99
66) tert-amyl methyl ether	10.22	73	60951	9.57	ug/L	99
67) heptane	10.37	57	12776	6.21	ug/L	96
68) isopropyl acetate	10.14	43	54885	9.63	ug/L	100
69) 1,2-dichloroethane	10.20	62	25764	11.25	ug/L	100
70) trichloroethene	10.94	95	18430	10.73	ug/L	97
71) 2-nitropropane	11.78	41	8646	9.21	ug/L	96
72) 2-chloroethyl vinyl ether	11.80	63	64916	50.56	ug/L	98
73) methyl methacrylate	11.25	100	5051	11.18	ug/L	94
74) 1,2-dichloropropane	11.22	63	21032	10.93	ug/L	98
75) dibromomethane	11.38	93	12764	10.44	ug/L	99
76) methylcyclohexane	11.15	83	28047	9.73	ug/L	98
77) bromodichloromethane	11.54	83	26180	10.17	ug/L	98
79) cis-1,3-dichloropropene	12.02	75	32182	10.08	ug/L	98
81) 4-methyl-2-pentanone	12.14	58	10544	11.07	ug/L	99
82) toluene	12.40	92	44204	9.58	ug/L	99
83) 3-methyl-1-butanol	12.19	55	29990	219.87	ug/L	100
84) trans-1,3-dichloropropene	12.63	75	29829	10.57	ug/L	97
85) ethyl methacrylate	12.64	69	26976	10.86	ug/L	100
86) 1,1,2-trichloroethane	12.86	83	15259	10.07	ug/L	99
87) 2-hexanone	13.06	58	9590	9.92	ug/L	99
89) tetrachloroethene	13.03	164	15653	10.89	ug/L	98
90) 1,3-dichloropropane	13.05	76	29772	10.23	ug/L	97
91) butyl acetate	13.14	56	15778	9.66	ug/L	94
92) 3,3-DIMETHYL-1-BUTANOL	13.25	57	33112	90.46	ug/L	99
93) dibromochloromethane	13.33	129	21420	10.51	ug/L	98
94) 1,2-dibromoethane	13.48	107	18846	10.77	ug/L	98
95) chlorobenzene	13.98	112	50535	9.82	ug/L	98
96) 1,1,1,2-tetrachloroethane	14.05	131	20483	10.47	ug/L	100
97) ethylbenzene	14.04	91	87126	9.65	ug/L	100
98) m,p-xylene	14.16	106	65336	19.57	ug/L	96
99) o-xylene	14.60	106	33970	9.79	ug/L	100
100) styrene	14.62	104	55337	9.88	ug/L	98
102) bromoform	14.90	173	17345	10.01	ug/L	95

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : 1C128181.D
 Acq On : 12 May 2014 2:46 pm
 Operator : mariceld
 Sample : ic5716-10
 Misc : MS66796,V1C5716,5,,,,,1
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 13 12:58:47 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M1C5716.M
 Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
 QLast Update : Tue May 13 08:41:29 2014
 Response via : Initial Calibration

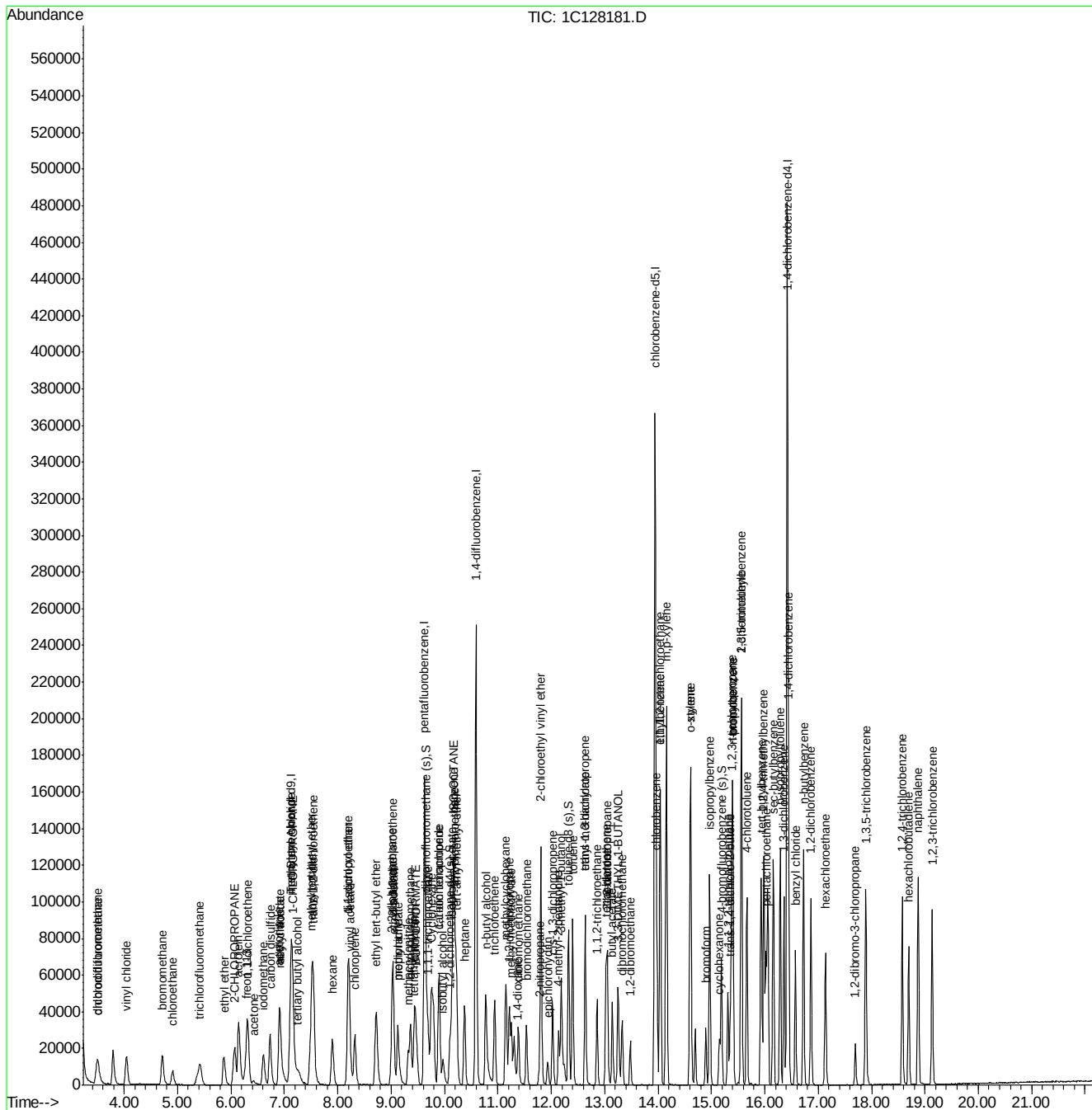
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) isopropylbenzene	14.97	105	89043	9.64	ug/L	100
106) cyclohexanone	15.15	55	13165	69.63	ug/L	98
107) bromobenzene	15.39	156	24439	10.05	ug/L	95
108) 1,1,2,2-tetrachloroethane	15.31	83	31708	9.47	ug/L	99
109) trans-1,4-dichloro-2-buten	15.35	53	9021	10.21	ug/L	93
110) 1,2,3-trichloropropane	15.38	110	7339	10.04	ug/L	93
111) n-propylbenzene	15.41	91	102138	9.48	ug/L	100
112) 2-chlorotoluene	15.56	126	22087	10.28	ug/L	98
113) 4-chlorotoluene	15.66	91	65101	9.66	ug/L	98
114) 1,3,5-trimethylbenzene	15.57	105	77287	9.71	ug/L	99
115) tert-butylbenzene	15.93	119	65797	9.69	ug/L	98
116) pentachloroethane	16.02	167	16914	10.98	ug/L	97
117) 1,2,4-trimethylbenzene	15.98	105	75747	9.45	ug/L	97
118) sec-butylbenzene	16.16	105	102273	9.58	ug/L	99
119) 1,3-dichlorobenzene	16.36	146	48194	9.49	ug/L	99
120) p-isopropyltoluene	16.29	119	87301	9.85	ug/L	99
122) 1,4-dichlorobenzene	16.45	146	49514	8.98	ug/L	100
123) benzyl chloride	16.57	91	59970	9.07	ug/L	100
124) 1,2-dichlorobenzene	16.86	146	48421	9.39	ug/L	98
125) n-butylbenzene	16.72	92	45268	9.69	ug/L	97
126) 1,2-dibromo-3-chloropropan	17.70	75	6784	10.62	ug/L	96
127) 1,3,5-trichlorobenzene	17.89	180	42317	9.73	ug/L	99
128) 1,2,4-trichlorobenzene	18.58	180	38920	9.75	ug/L	99
129) hexachlorobutadiene	18.70	225	21245	10.16	ug/L	98
130) naphthalene	18.87	128	103198	10.67	ug/L	99
131) 1,2,3-trichlorobenzene	19.13	180	37756	10.69	ug/L	100
132) hexachloroethane	17.14	201	16652	11.05	ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 1C128181.D
Acq On : 12 May 2014 2:46 pm
Operator : mariceld
Sample : ic5716-10
Misc : MS66796,V1C5716,5,,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 13 12:58:47 2014
Quant Method : C:\MSDCHEM\1\METHODS\M1C5716.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Tue May 13 08:41:29 2014
Response via : Initial Calibration



M1C5716.M Wed May 14 09:10:26 2014 RPT1

Page: 4

7.6.6

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : 1C128182.D
 Acq On : 12 May 2014 3:14 pm
 Operator : mariceld
 Sample : ic5716-20
 Misc : MS66796,V1C5716,5,,,1
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 13 12:59:13 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M1C5716.M
 Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
 QLast Update : Tue May 13 08:41:41 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.13	65	137703	500.00	ug/L	0.00
4) pentafluorobenzene	9.63	168	154292	50.00	ug/L	0.00
58) 1,4-difluorobenzene	10.59	114	236747	50.00	ug/L	0.00
88) chlorobenzene-d5	13.94	117	219230	50.00	ug/L	0.00
103) 1,4-dichlorobenzene-d4	16.42	152	134979	50.00	ug/L	0.00

System Monitoring Compounds

52) dibromofluoromethane (s)	9.65	113	85396	43.09	ug/L	0.00
Spiked Amount	50.000	Range	79 - 120	Recovery	=	86.18%
53) 1,2-dichloroethane-d4 (s)	10.10	65	101867	47.07	ug/L	0.00
Spiked Amount	50.000	Range	72 - 123	Recovery	=	94.14%
80) toluene-d8 (s)	12.32	98	310281	39.26	ug/L	0.00
Spiked Amount	50.000	Range	78 - 119	Recovery	=	78.52%
105) 4-bromofluorobenzene (s)	15.19	95	121870	36.77	ug/L	0.00
Spiked Amount	50.000	Range	74 - 119	Recovery	=	73.54%#

Target Compounds

						Qvalue
2) tertiary butyl alcohol	7.26	59	37066	107.69	ug/L	100
3) 1,4-dioxane	11.36	88	15101	615.05	ug/L	96
9) chlorodifluoromethane	3.50	51	33985	22.85	ug/L	99
10) dichlorodifluoromethane	3.49	85	54153	23.83	ug/L	94
12) chloromethane	3.79	50	67442	19.38	ug/L	99
13) vinyl chloride	4.05	62	62473	20.85	ug/L	98
14) bromomethane	4.71	94	37679	21.77	ug/L	98
15) chloroethane	4.90	64	26471	20.30	ug/L	95
19) trichlorofluoromethane	5.42	101	60796	22.17	ug/L	99
20) ethyl ether	5.86	74	21694	21.75	ug/L	96
22) acrolein	6.14	56	108682	232.97	ug/L	99
23) 1,1-dichloroethene	6.31	96	35688	21.16	ug/L	99
24) acetone	6.40	43	16098	19.23	ug/L	96
25) acetonitrile	6.89	40	57279	188.11	ug/L	78
26) allyl chloride	6.91	76	19446	5.60	ug/L #	85
27) iodomethane	6.60	142	70130	21.34	ug/L	99
28) carbon disulfide	6.73	76	129652	13.18	ug/L	99
29) 2-CHLOROPROPANE	6.06	43	75442	22.26	ug/L #	93
30) methylene chloride	7.13	84	41187	20.54	ug/L	99
31) methyl acetate	6.92	43	40788	24.91	ug/L	99
32) methyl tert butyl ether	7.50	73	123137	20.62	ug/L	99
33) trans-1,2-dichloroethene	7.54	96	36795	23.75	ug/L	100
34) 1-CHLOROPROPANE	7.15	42	86428	5.19	ug/L	99
35) di-isopropyl ether	8.19	45	140829	20.98	ug/L	78
36) 2-butanone	9.02	72	5768	23.28	ug/L #	73
37) 1,1-dichloroethane	8.19	63	74760	21.06	ug/L	100
38) chloroprene	8.31	53	53851	23.90	ug/L	98
39) acrylonitrile	7.51	53	95859	122.28	ug/L	99
40) vinyl acetate	8.22	86	6284	23.17	ug/L	67
41) ethyl tert-butyl ether	8.72	59	129333	20.86	ug/L	99
42) ethyl acetate	9.05	45	8128	26.18	ug/L	88
43) 2,2-dichloropropane	9.01	77	56774	20.78	ug/L	99
44) cis-1,2-dichloroethene	9.02	96	41060	23.49	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : 1C128182.D
 Acq On : 12 May 2014 3:14 pm
 Operator : mariceld
 Sample : ic5716-20
 Misc : MS66796,V1C5716,5,,,1
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 13 12:59:13 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M1C5716.M
 Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
 QLast Update : Tue May 13 08:41:41 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) propionitrile	9.12	54	81445	253.64	ug/L	97
46) methylacrylate	9.12	55	56858	26.72	ug/L	97
47) bromochloromethane	9.36	128	20967	23.26	ug/L	98
48) tetrahydrofuran	9.42	72	6919	24.81	ug/L	96
49) chloroform	9.44	85	43282	21.16	ug/L	97
50) T-BUTYL FORMATE	9.46	59	39244	22.11	ug/L	99
51) isobutyl alcohol	9.97	43	33802	144.43	ug/L	99
54) freon 113	6.29	151	27404	21.60	ug/L	95
55) methacrylonitrile	9.31	67	19451	22.47	ug/L	96
56) 1,1,1-trichloroethane	9.69	97	57404	21.74	ug/L	96
57) Cyclohexane	9.76	84	58979	21.70	ug/L	98
59) ISO-OCTANE	10.18	57	158455	22.24	ug/L	100
60) epichlorohydrin	11.93	57	29781	112.52	ug/L	99
61) n-butyl alcohol	10.77	56	104013	1288.63	ug/L	99
62) carbon tetrachloride	9.90	117	52272	21.84	ug/L	99
63) 1,1-dichloropropene	9.89	75	52766	22.95	ug/L	99
64) hexane	7.90	57	44302	24.48	ug/L	99
65) benzene	10.17	78	152611	20.21	ug/L	100
66) tert-amyl methyl ether	10.22	73	128430	20.83	ug/L	99
67) heptane	10.37	57	28753	15.16	ug/L	97
68) isopropyl acetate	10.13	43	115380	20.90	ug/L	97
69) 1,2-dichloroethane	10.20	62	52834	23.27	ug/L	99
70) trichloroethene	10.93	95	38351	22.69	ug/L	99
71) 2-nitropropane	11.77	41	18686	20.77	ug/L	100
72) 2-chloroethyl vinyl ether	11.80	63	139373	111.27	ug/L	99
73) methyl methacrylate	11.25	100	11066	24.56	ug/L	95
74) 1,2-dichloropropane	11.22	63	42573	22.41	ug/L	98
75) dibromomethane	11.38	93	26192	21.84	ug/L	99
76) methylcyclohexane	11.15	83	61549	22.00	ug/L	97
77) bromodichloromethane	11.53	83	52853	21.04	ug/L	97
79) cis-1,3-dichloropropene	12.02	75	67327	21.64	ug/L	99
81) 4-methyl-2-pentanone	12.14	58	22433	23.76	ug/L	99
82) toluene	12.40	92	90790	20.32	ug/L	100
83) 3-methyl-1-butanol	12.18	55	66565	494.09	ug/L	99
84) trans-1,3-dichloropropene	12.63	75	62733	22.65	ug/L	97
85) ethyl methacrylate	12.64	69	59342	24.22	ug/L	100
86) 1,1,2-trichloroethane	12.85	83	32008	21.66	ug/L	98
87) 2-hexanone	13.05	58	21045	22.39	ug/L	96
89) tetrachloroethene	13.03	164	32813	22.62	ug/L	98
90) 1,3-dichloropropane	13.05	76	62761	21.56	ug/L	100
91) butyl acetate	13.14	56	34622	21.35	ug/L	92
92) 3,3-DIMETHYL-1-BUTANOL	13.25	57	76188	211.63	ug/L	100
93) dibromochloromethane	13.33	129	44504	21.75	ug/L	99
94) 1,2-dibromoethane	13.48	107	39668	22.49	ug/L	100
95) chlorobenzene	13.98	112	104331	20.38	ug/L	99
96) 1,1,1,2-tetrachloroethane	14.05	131	42407	21.60	ug/L	99
97) ethylbenzene	14.04	91	180313	20.14	ug/L	100
98) m,p-xylene	14.16	106	136029	41.00	ug/L	99
99) o-xylene	14.60	106	69842	20.25	ug/L	97
100) styrene	14.62	104	116828	20.96	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 1C128182.D
Acq On : 12 May 2014 3:14 pm
Operator : mariceld
Sample : ic5716-20
Misc : MS66796,V1C5716,5,,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 13 12:59:13 2014
Quant Method : C:\MSDCHEM\1\METHODS\M1C5716.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Tue May 13 08:41:41 2014
Response via : Initial Calibration

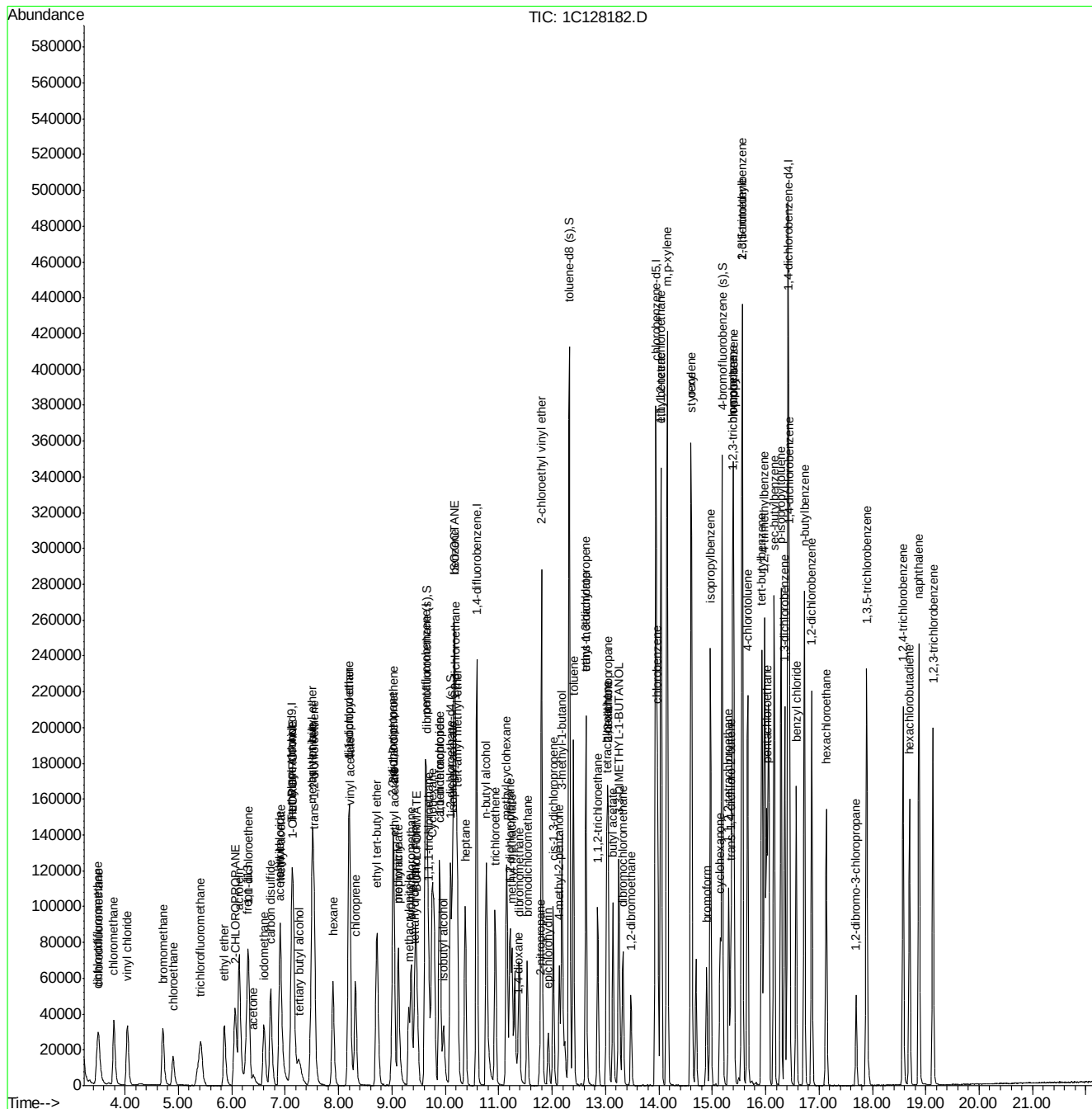
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
102) bromoform	14.90	173	37256	21.57	ug/L	98
104) isopropylbenzene	14.97	105	184515	19.87	ug/L	99
106) cyclohexanone	15.15	55	41776	228.54	ug/L	99
107) bromobenzene	15.38	156	51042	20.75	ug/L	96
108) 1,1,2,2-tetrachloroethane	15.31	83	67185	20.01	ug/L	100
109) trans-1,4-dichloro-2-buten	15.35	53	19538	21.80	ug/L	98
110) 1,2,3-trichloropropane	15.38	110	15934	21.56	ug/L	96
111) n-propylbenzene	15.40	91	216192	20.00	ug/L	99
112) 2-chlorotoluene	15.56	126	47041	21.58	ug/L	96
113) 4-chlorotoluene	15.66	91	136321	20.11	ug/L	99
114) 1,3,5-trimethylbenzene	15.57	105	161071	20.10	ug/L	99
115) tert-butylbenzene	15.93	119	139980	20.49	ug/L	99
116) pentachloroethane	16.02	167	35614	22.56	ug/L	98
117) 1,2,4-trimethylbenzene	15.98	105	160191	19.93	ug/L	97
118) sec-butylbenzene	16.16	105	218299	20.35	ug/L	99
119) 1,3-dichlorobenzene	16.36	146	99765	19.58	ug/L	99
120) p-isopropyltoluene	16.29	119	184697	20.67	ug/L	99
122) 1,4-dichlorobenzene	16.45	146	103166	18.79	ug/L	99
123) benzyl chloride	16.57	91	131315	19.92	ug/L	99
124) 1,2-dichlorobenzene	16.87	146	102605	19.86	ug/L	99
125) n-butylbenzene	16.73	92	96495	20.54	ug/L	99
126) 1,2-dibromo-3-chloropropan	17.70	75	14537	22.28	ug/L	97
127) 1,3,5-trichlorobenzene	17.89	180	90280	20.61	ug/L	100
128) 1,2,4-trichlorobenzene	18.58	180	81422	20.26	ug/L	99
129) hexachlorobutadiene	18.70	225	44629	21.08	ug/L	98
130) naphthalene	18.87	128	216831	22.25	ug/L	100
131) 1,2,3-trichlorobenzene	19.13	180	78248	21.97	ug/L	100
132) hexachloroethane	17.14	201	36301	23.48	ug/L	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 1C128182.D
Acq On : 12 May 2014 3:14 pm
Operator : mariceld
Sample : ic5716-20
Misc : MS66796,V1C5716,5,,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 13 12:59:13 2014
Quant Method : C:\MSDCHEM\1\METHODS\M1C5716.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Tue May 13 08:41:41 2014
Response via : Initial Calibration



7.6.7

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : 1C128183.D
 Acq On : 12 May 2014 3:43 pm
 Operator : mariceld
 Sample : icc5716-50
 Misc : MS66796,V1C5716,5,,,,,1
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 13 08:39:41 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M1C5716.M
 Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
 QLast Update : Mon Apr 28 09:57:58 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.13	65	140173	500.00	ug/L	-0.02
4) pentafluorobenzene	9.63	168	156127	50.00	ug/L	-0.02
58) 1,4-difluorobenzene	10.59	114	239506	50.00	ug/L	-0.01
88) chlorobenzene-d5	13.94	117	225053	50.00	ug/L	0.00
103) 1,4-dichlorobenzene-d4	16.42	152	139028	50.00	ug/L	0.00

System Monitoring Compounds

52) dibromofluoromethane (s)	9.65	113	86453	63.78	ug/L	-0.02
Spiked Amount	50.000	Range	79 - 120	Recovery	=	127.56%#
53) 1,2-dichloroethane-d4 (s)	10.10	65	100583	65.91	ug/L	-0.02
Spiked Amount	50.000	Range	72 - 123	Recovery	=	131.82%#
80) toluene-d8 (s)	12.32	98	317287	52.51	ug/L	0.00
Spiked Amount	50.000	Range	78 - 119	Recovery	=	105.02%
105) 4-bromofluorobenzene (s)	15.19	95	124895	46.20	ug/L	0.00
Spiked Amount	50.000	Range	74 - 119	Recovery	=	92.40%

Target Compounds

						Qvalue
2) tertiary butyl alcohol	7.26	59	83602	178.52	ug/L	61
3) 1,4-dioxane	11.35	88	34518	1118.29	ug/L #	81
9) chlorodifluoromethane	3.51	51	80143	69.00	ug/L	97
10) dichlorodifluoromethane	3.49	85	126104	84.74	ug/L	97
12) chloromethane	3.80	50	168492	81.05	ug/L	98
13) vinyl chloride	4.06	62	153908	80.46	ug/L	98
14) bromomethane	4.71	94	92675	77.05	ug/L	98
15) chloroethane	4.90	64	64483	79.10	ug/L	95
19) trichlorofluoromethane	5.41	101	144293	72.71	ug/L	98
20) ethyl ether	5.86	74	51771	70.51	ug/L	91
22) acrolein	6.14	56	257892	839.14	ug/L	99
23) 1,1-dichloroethene	6.31	96	85972	67.92	ug/L	91
24) acetone	6.40	43	39752	77.23	ug/L	96
25) acetonitrile	6.89	40	112403	832.03	ug/L	84
26) allyl chloride	6.91	76	45891	62.38	ug/L	99
27) iodomethane	6.60	142	170437	65.18	ug/L	98
28) carbon disulfide	6.73	76	310038	64.38	ug/L	99
29) 2-CHLOROPROPANE	6.06	43	178571	65.26	ug/L	94
30) methylene chloride	7.13	84	98538	66.91	ug/L	90
31) methyl acetate	6.91	43	96030	78.21	ug/L	96
32) methyl tert butyl ether	7.50	73	296290	78.37	ug/L	97
33) trans-1,2-dichloroethene	7.54	96	87977	63.57	ug/L	95
34) 1-CHLOROPROPANE	7.15	42	188909	63.91	ug/L	98
35) di-isopropyl ether	8.19	45	335304	69.04	ug/L	98
36) 2-butanone	9.01	72	13843	79.36	ug/L #	80
37) 1,1-dichloroethane	8.19	63	177845	69.33	ug/L	99
38) chloroprene	8.31	53	127621	67.29	ug/L	97
39) acrylonitrile	7.51	53	227991	413.24	ug/L	98
40) vinyl acetate	8.21	86	16757	68.96	ug/L	73
41) ethyl tert-butyl ether	8.72	59	307837	76.61	ug/L	96
42) ethyl acetate	9.04	45	19211	81.42	ug/L	86
43) 2,2-dichloropropane	9.01	77	133271	71.78	ug/L	94
44) cis-1,2-dichloroethene	9.03	96	97735	63.52	ug/L	90

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : 1C128183.D
 Acq On : 12 May 2014 3:43 pm
 Operator : mariceld
 Sample : icc5716-50
 Misc : MS66796,V1C5716,5,,,1
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 13 08:39:41 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M1C5716.M
 Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
 QLast Update : Mon Apr 28 09:57:58 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) propionitrile	9.11	54	189659	864.43	ug/L	95
46) methylacrylate	9.12	55	135689	77.10	ug/L	92
47) bromochloromethane	9.36	128	49873	64.55	ug/L	90
48) tetrahydrofuran	9.41	72	16180	81.39	ug/L	96
49) chloroform	9.44	85	102451	63.73	ug/L	98
50) T-BUTYL FORMATE	9.47	59	92730	87.75	ug/L	96
51) isobutyl alcohol	9.97	43	77011	943.68	ug/L	97
54) freon 113	6.29	151	64225	66.83	ug/L	90
55) methacrylonitrile	9.31	67	46335	72.78	ug/L	93
56) 1,1,1-trichloroethane	9.69	97	136811	62.17	ug/L	97
57) Cyclohexane	9.76	84	139479	70.81	ug/L	92
59) ISO-OCTANE	10.18	57	372627	77.57	ug/L	96
60) epichlorohydrin	11.93	57	69378	401.45	ug/L	99
61) n-butyl alcohol	10.77	56	240672	4623.74	ug/L	96
62) carbon tetrachloride	9.90	117	126304	57.95	ug/L	99
63) 1,1-dichloropropene	9.89	75	124643	56.96	ug/L	97
64) hexane	7.90	57	102261	58.75	ug/L	97
65) benzene	10.17	78	364772	56.16	ug/L	99
66) tert-amyl methyl ether	10.22	73	309119	72.19	ug/L	98
67) heptane	10.37	57	66129	59.54	ug/L	97
68) isopropyl acetate	10.13	43	295299	74.99	ug/L	98
69) 1,2-dichloroethane	10.20	62	125679	60.49	ug/L	98
70) trichloroethene	10.93	95	90888	52.43	ug/L	99
71) 2-nitropropane	11.77	41	44034	66.25	ug/L	98
72) 2-chloroethyl vinyl ether	11.80	63	334919	492.19	ug/L	98
73) methyl methacrylate	11.25	100	26730	55.79	ug/L	# 84
74) 1,2-dichloropropane	11.21	63	103193	57.27	ug/L	100
75) dibromomethane	11.38	93	62399	58.85	ug/L	95
76) methylcyclohexane	11.15	83	146836	61.92	ug/L	96
77) bromodichloromethane	11.53	83	128083	55.15	ug/L	100
79) cis-1,3-dichloropropene	12.02	75	161598	54.73	ug/L	99
81) 4-methyl-2-pentanone	12.13	58	52282	69.64	ug/L	94
82) toluene	12.40	92	220085	51.83	ug/L	99
83) 3-methyl-1-butanol	12.18	55	156711	2012.18	ug/L	98
84) trans-1,3-dichloropropene	12.63	75	151360	56.07	ug/L	97
85) ethyl methacrylate	12.63	69	141760	57.58	ug/L	97
86) 1,1,2-trichloroethane	12.85	83	76796	53.74	ug/L	100
87) 2-hexanone	13.05	58	50305	69.42	ug/L	99
89) tetrachloroethene	13.02	164	79439	44.94	ug/L	95
90) 1,3-dichloropropane	13.05	76	149362	55.66	ug/L	94
91) butyl acetate	13.14	56	81478	64.82	ug/L	96
92) 3,3-DIMETHYL-1-BUTANOL	13.25	57	175922	1160.92	ug/L	97
93) dibromochloromethane	13.32	129	109108	51.90	ug/L	99
94) 1,2-dibromoethane	13.48	107	95914	54.84	ug/L	98
95) chlorobenzene	13.98	112	252574	52.47	ug/L	100
96) 1,1,1,2-tetrachloroethane	14.05	131	103954	54.36	ug/L	98
97) ethylbenzene	14.04	91	438852	52.93	ug/L	100
98) m,p-xylene	14.16	106	331815	105.21	ug/L	98
99) o-xylene	14.60	106	172375	55.43	ug/L	99
100) styrene	14.62	104	286392	53.55	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : 1C128183.D
 Acq On : 12 May 2014 3:43 pm
 Operator : mariceld
 Sample : icc5716-50
 Misc : MS66796,V1C5716,5,,,,,1
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 13 08:39:41 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M1C5716.M
 Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
 QLast Update : Mon Apr 28 09:57:58 2014
 Response via : Initial Calibration

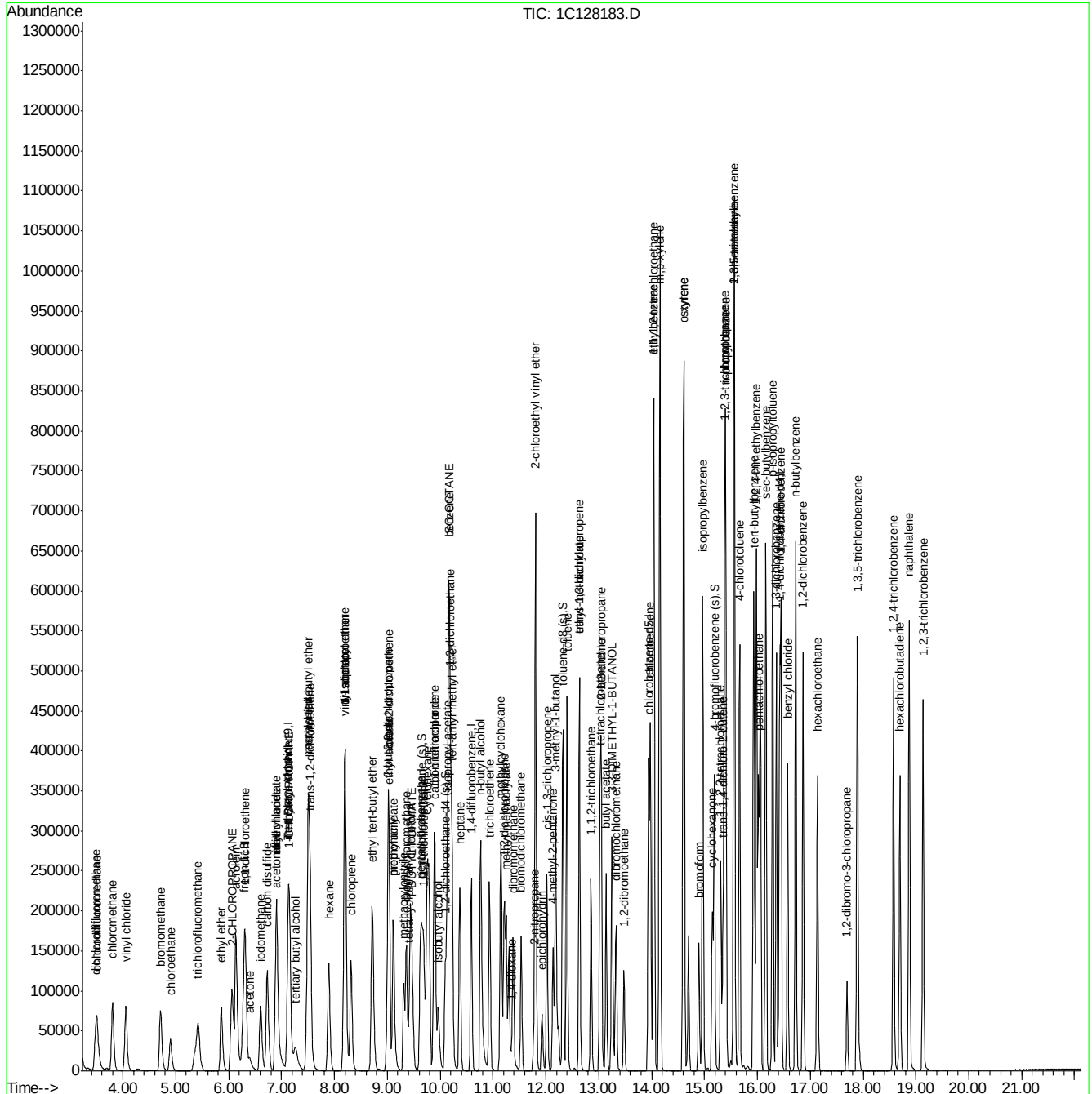
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
102) bromoform	14.89	173	90758	54.36	ug/L	97
104) isopropylbenzene	14.97	105	451428	48.60	ug/L	99
106) cyclohexanone	15.15	55	103252	1131.74	ug/L	97
107) bromobenzene	15.38	156	124642	47.27	ug/L	88
108) 1,1,2,2-tetrachloroethane	15.31	83	155848	57.37	ug/L	99
109) trans-1,4-dichloro-2-buten	15.35	53	45521	62.09	ug/L	95
110) 1,2,3-trichloropropane	15.38	110	36638	55.92	ug/L	99
111) n-propylbenzene	15.41	91	524609	49.89	ug/L	99
112) 2-chlorotoluene	15.56	126	113059	48.30	ug/L	95
113) 4-chlorotoluene	15.66	91	329803	49.36	ug/L	98
114) 1,3,5-trimethylbenzene	15.57	105	397518	51.95	ug/L	100
115) tert-butylbenzene	15.93	119	343536	52.68	ug/L	97
116) pentachloroethane	16.02	167	86315	49.69	ug/L	97
117) 1,2,4-trimethylbenzene	15.98	105	395230	53.29	ug/L	98
118) sec-butylbenzene	16.16	105	531290	55.23	ug/L	100
119) 1,3-dichlorobenzene	16.36	146	243428	51.74	ug/L	98
120) p-isopropyltoluene	16.29	119	453798	56.26	ug/L	99
122) 1,4-dichlorobenzene	16.45	146	247960	51.64	ug/L	98
123) benzyl chloride	16.57	91	303017	69.96	ug/L	99
124) 1,2-dichlorobenzene	16.87	146	242974	54.00	ug/L	99
125) n-butylbenzene	16.73	92	232730	60.21	ug/L	99
126) 1,2-dibromo-3-chloropropan	17.70	75	33187	90.45	ug/L	92
127) 1,3,5-trichlorobenzene	17.89	180	213493	66.41	ug/L	100
128) 1,2,4-trichlorobenzene	18.58	180	191763	78.74	ug/L	99
129) hexachlorobutadiene	18.70	225	104056	67.77	ug/L	99
130) naphthalene	18.87	128	497940	100.99	ug/L	99
131) 1,2,3-trichlorobenzene	19.14	180	181940	119.22	ug/L	100
132) hexachloroethane	17.14	201	87654	55.87	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 1C128183.D
Acq On : 12 May 2014 3:43 pm
Operator : mariceld
Sample : icc5716-50
Misc : MS66796,V1C5716,5,,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 13 08:39:41 2014
Quant Method : C:\MSDCHEM\1\METHODS\M1C5716.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Mon Apr 28 09:57:58 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : 1C128184.D
 Acq On : 12 May 2014 4:11 pm
 Operator : mariceld
 Sample : ic5716-100
 Misc : MS66796,V1C5716,5,,,1
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 13 12:59:39 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M1C5716.M
 Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
 QLast Update : Tue May 13 08:41:52 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.14	65	143881	500.00	ug/L	0.01
4) pentafluorobenzene	9.63	168	155979	50.00	ug/L	0.00
58) 1,4-difluorobenzene	10.58	114	240189	50.00	ug/L	0.00
88) chlorobenzene-d5	13.94	117	231583	50.00	ug/L	0.00
103) 1,4-dichlorobenzene-d4	16.42	152	141585	50.00	ug/L	0.00

System Monitoring Compounds

52) dibromofluoromethane (s)	9.65	113	169669	86.18	ug/L	0.00
Spiked Amount	50.000	Range	79 - 120	Recovery	=	172.36%#
53) 1,2-dichloroethane-d4 (s)	10.10	65	196388	90.52	ug/L	0.00
Spiked Amount	50.000	Range	72 - 123	Recovery	=	181.04%#
80) toluene-d8 (s)	12.32	98	633145	81.14	ug/L	0.00
Spiked Amount	50.000	Range	78 - 119	Recovery	=	162.28%#
105) 4-bromofluorobenzene (s)	15.19	95	260746	77.56	ug/L	0.00
Spiked Amount	50.000	Range	74 - 119	Recovery	=	155.12%#

Target Compounds

						Qvalue
2) tertiary butyl alcohol	7.26	59	164179	450.73	ug/L	100
3) 1,4-dioxane	11.35	88	65901	2473.95	ug/L	94
9) chlorodifluoromethane	3.50	51	160781	104.78	ug/L	99
10) dichlorodifluoromethane	3.48	85	242862	102.90	ug/L	98
12) chloromethane	3.80	50	330234	94.24	ug/L	99
13) vinyl chloride	4.06	62	304269	99.93	ug/L	98
14) bromomethane	4.70	94	171257	96.82	ug/L	99
15) chloroethane	4.89	64	120230	90.99	ug/L	99
19) trichlorofluoromethane	5.42	101	280882	99.75	ug/L	99
20) ethyl ether	5.86	74	102858	100.55	ug/L	97
22) acrolein	6.13	56	506036	1051.34	ug/L	99
23) 1,1-dichloroethene	6.31	96	173461	100.91	ug/L	100
24) acetone	6.39	43	79501	94.56	ug/L	93
25) acetonitrile	6.89	40	219508	718.43	ug/L	99
26) allyl chloride	6.90	76	90371	28.29	ug/L	98
27) iodomethane	6.60	142	341092	101.81	ug/L	100
28) carbon disulfide	6.72	76	618101	64.93	ug/L	99
29) 2-CHLOROPROPANE	6.06	43	353053	101.60	ug/L	100
30) methylene chloride	7.12	84	194485	95.61	ug/L	99
31) methyl acetate	6.91	43	189493	110.58	ug/L	98
32) methyl tert butyl ether	7.49	73	590232	97.41	ug/L	97
33) trans-1,2-dichloroethene	7.53	96	173730	108.40	ug/L	99
34) 1-CHLOROPROPANE	7.15	42	356055	23.33	ug/L	97
35) di-isopropyl ether	8.19	45	663098	97.13	ug/L	83
36) 2-butanone	9.01	72	28139	107.92	ug/L	# 76
37) 1,1-dichloroethane	8.19	63	349640	96.68	ug/L	99
38) chloroprene	8.31	53	250407	107.34	ug/L	99
39) acrylonitrile	7.50	53	452756	555.81	ug/L	100
40) vinyl acetate	8.20	86	33674	118.13	ug/L	95
41) ethyl tert-butyl ether	8.72	59	611851	97.10	ug/L	98
42) ethyl acetate	9.04	45	38545	115.65	ug/L	85
43) 2,2-dichloropropane	9.01	77	265508	95.67	ug/L	99
44) cis-1,2-dichloroethene	9.02	96	193722	107.30	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : 1C128184.D
 Acq On : 12 May 2014 4:11 pm
 Operator : mariceld
 Sample : ic5716-100
 Misc : MS66796,V1C5716,5,,,1
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 13 12:59:39 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M1C5716.M
 Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
 QLast Update : Tue May 13 08:41:52 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) propionitrile	9.11	54	381878	1138.24	ug/L	93
46) methylacrylate	9.11	55	274844	121.91	ug/L	99
47) bromochloromethane	9.36	128	99327	106.51	ug/L	98
48) tetrahydrofuran	9.41	72	32691	110.63	ug/L	97
49) chloroform	9.44	85	203662	97.78	ug/L	99
50) T-BUTYL FORMATE	9.46	59	186838	102.57	ug/L	99
51) isobutyl alcohol	9.96	43	153502	672.15	ug/L	99
54) freon 113	6.28	151	126554	97.38	ug/L	98
55) methacrylonitrile	9.31	67	93930	104.76	ug/L	98
56) 1,1,1-trichloroethane	9.68	97	271579	100.63	ug/L	97
57) Cyclohexane	9.76	84	276147	99.45	ug/L	99
59) ISO-OCTANE	10.18	57	730065	99.62	ug/L	100
60) epichlorohydrin	11.92	57	140132	512.70	ug/L	99
61) n-butyl alcohol	10.77	56	480529	5663.68	ug/L	98
62) carbon tetrachloride	9.90	117	252622	102.87	ug/L	99
63) 1,1-dichloropropene	9.88	75	250396	105.39	ug/L	100
64) hexane	7.89	57	198874	105.35	ug/L	99
65) benzene	10.16	78	730239	95.20	ug/L	99
66) tert-amyl methyl ether	10.22	73	616382	98.03	ug/L	99
67) heptane	10.37	57	127643	68.41	ug/L	96
68) isopropyl acetate	10.13	43	553872	98.35	ug/L	99
69) 1,2-dichloroethane	10.19	62	250869	106.73	ug/L	99
70) trichloroethene	10.93	95	181243	103.95	ug/L	99
71) 2-nitropropane	11.77	41	88386	96.20	ug/L	100
72) 2-chloroethyl vinyl ether	11.80	63	674688	523.57	ug/L	100
73) methyl methacrylate	11.25	100	55294	116.54	ug/L	97
74) 1,2-dichloropropane	11.21	63	207269	105.95	ug/L	100
75) dibromomethane	11.38	93	125005	101.42	ug/L	99
76) methylcyclohexane	11.15	83	287350	100.00	ug/L	99
77) bromodichloromethane	11.53	83	256755	100.08	ug/L	99
79) cis-1,3-dichloropropene	12.02	75	327608	102.72	ug/L	99
81) 4-methyl-2-pentanone	12.13	58	106571	108.35	ug/L	96
82) toluene	12.40	92	443596	97.66	ug/L	99
83) 3-methyl-1-butanol	12.18	55	315318	2241.05	ug/L	99
84) trans-1,3-dichloropropene	12.63	75	307399	107.60	ug/L	99
85) ethyl methacrylate	12.63	69	290498	113.88	ug/L	99
86) 1,1,2-trichloroethane	12.85	83	155939	102.81	ug/L	98
87) 2-hexanone	13.05	58	103421	106.32	ug/L	99
89) tetrachloroethene	13.02	164	163522	104.98	ug/L	99
90) 1,3-dichloropropane	13.05	76	307062	98.90	ug/L	99
91) butyl acetate	13.14	56	165969	96.09	ug/L	95
92) 3,3-DIMETHYL-1-BUTANOL	13.25	57	354251	924.81	ug/L	99
93) dibromochloromethane	13.32	129	226175	103.50	ug/L	99
94) 1,2-dibromoethane	13.48	107	196141	103.67	ug/L	99
95) chlorobenzene	13.98	112	522009	96.29	ug/L	99
96) 1,1,1,2-tetrachloroethane	14.05	131	215585	102.92	ug/L	99
97) ethylbenzene	14.04	91	903966	95.49	ug/L	99
98) m,p-xylene	14.16	106	698862	198.78	ug/L	99
99) o-xylene	14.60	106	358745	98.29	ug/L	98
100) styrene	14.62	104	602375	101.68	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : 1C128184.D
 Acq On : 12 May 2014 4:11 pm
 Operator : mariceld
 Sample : ic5716-100
 Misc : MS66796,V1C5716,5,,,1
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 13 12:59:39 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M1C5716.M
 Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
 QLast Update : Tue May 13 08:41:52 2014
 Response via : Initial Calibration

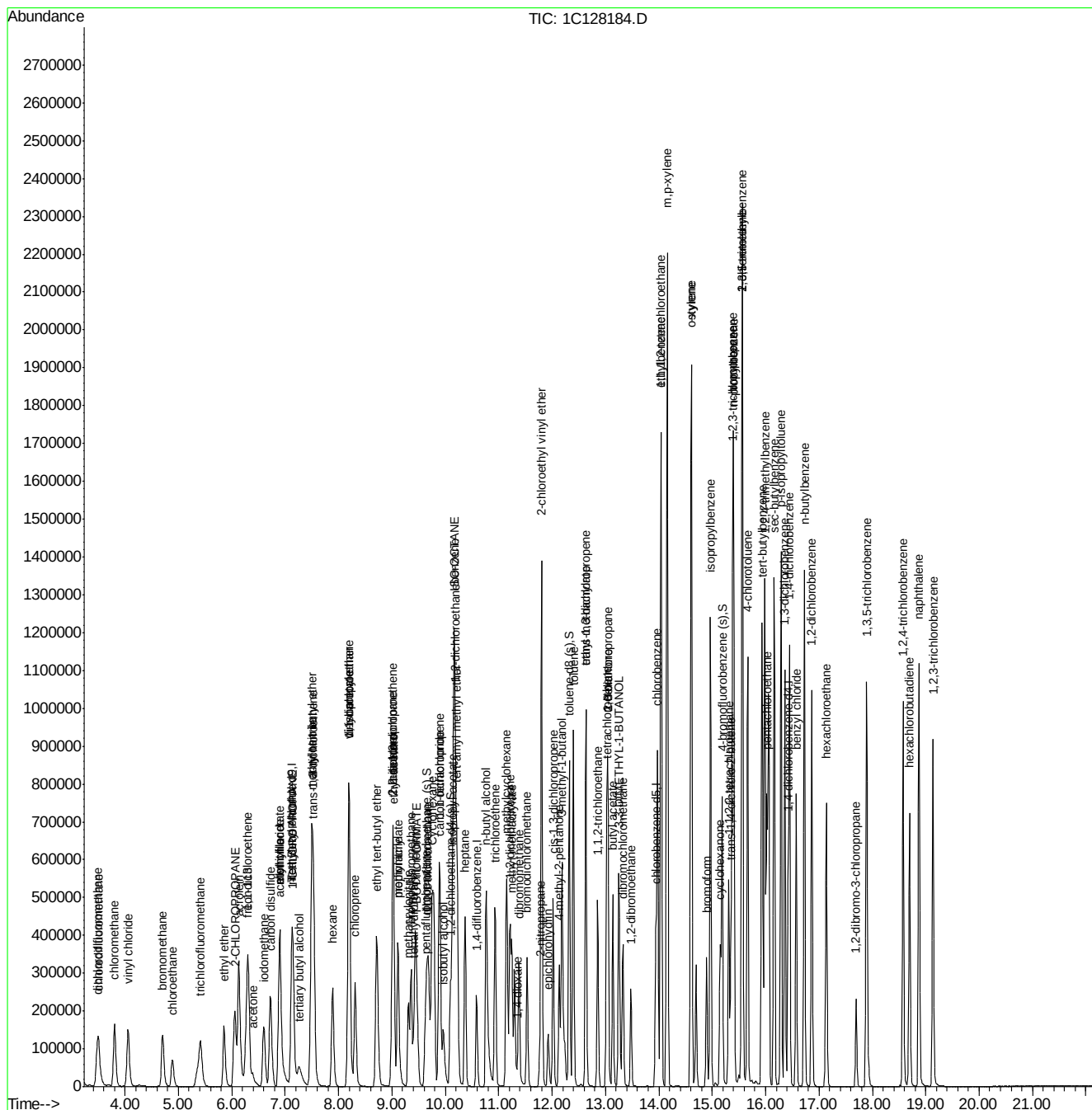
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
102) bromoform	14.90	173	191157	103.75	ug/L	97
104) isopropylbenzene	14.97	105	944242	97.04	ug/L	99
106) cyclohexanone	15.15	55	197875	1013.91	ug/L	100
107) bromobenzene	15.38	156	265183	102.31	ug/L	99
108) 1,1,2,2-tetrachloroethane	15.31	83	325053	92.31	ug/L	99
109) trans-1,4-dichloro-2-buten	15.35	53	93896	98.39	ug/L	90
110) 1,2,3-trichloropropane	15.38	110	77754	99.18	ug/L	97
111) n-propylbenzene	15.41	91	1105521	97.49	ug/L	99
112) 2-chlorotoluene	15.56	126	244121	105.71	ug/L	97
113) 4-chlorotoluene	15.66	91	689587	96.92	ug/L	99
114) 1,3,5-trimethylbenzene	15.57	105	843443	100.29	ug/L	100
115) tert-butylbenzene	15.93	119	708125	98.52	ug/L	98
116) pentachloroethane	16.02	167	180984	107.59	ug/L	99
117) 1,2,4-trimethylbenzene	15.99	105	821306	97.47	ug/L	100
118) sec-butylbenzene	16.16	105	1100536	97.58	ug/L	99
119) 1,3-dichlorobenzene	16.36	146	509482	95.59	ug/L	99
120) p-isopropyltoluene	16.29	119	940306	99.89	ug/L	100
122) 1,4-dichlorobenzene	16.45	146	517871	90.59	ug/L	99
123) benzyl chloride	16.57	91	627074	90.75	ug/L	100
124) 1,2-dichlorobenzene	16.87	146	502053	92.74	ug/L	99
125) n-butylbenzene	16.73	92	478358	96.73	ug/L	99
126) 1,2-dibromo-3-chloropropan	17.70	75	66556	95.69	ug/L	95
127) 1,3,5-trichlorobenzene	17.89	180	429542	93.13	ug/L	100
128) 1,2,4-trichlorobenzene	18.58	180	394039	93.33	ug/L	100
129) hexachlorobutadiene	18.70	225	204286	91.36	ug/L	99
130) naphthalene	18.87	128	998924	97.40	ug/L	100
131) 1,2,3-trichlorobenzene	19.13	180	366548	97.92	ug/L	99
132) hexachloroethane	17.14	201	179880	108.57	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 1C128184.D
Acq On : 12 May 2014 4:11 pm
Operator : mariceld
Sample : ic5716-100
Misc : MS66796,V1C5716,5,,,,,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 13 12:59:39 2014
Quant Method : C:\MSDCHEM\1\METHODS\M1C5716.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Tue May 13 08:41:52 2014
Response via : Initial Calibration



7.6.9



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : 1C128185.D
 Acq On : 12 May 2014 4:39 pm
 Operator : mariceld
 Sample : ic5716-200
 Misc : MS66796,V1C5716,5,,,1
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 13 12:59:59 2014

Quant Method : C:\MSDCHEM\1\METHODS\M1C5716.M

Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM

QLast Update : Tue May 13 08:42:05 2014

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.15	65	150967	500.00	ug/L	0.03
4) pentafluorobenzene	9.63	168	162354	50.00	ug/L	0.00
58) 1,4-difluorobenzene	10.59	114	252283	50.00	ug/L	0.00
88) chlorobenzene-d5	13.95	117	246462	50.00	ug/L	0.00
103) 1,4-dichlorobenzene-d4	16.43	152	150660	50.00	ug/L	0.00

System Monitoring Compounds

52) dibromofluoromethane (s)	9.65	113	362629	179.72	ug/L	0.00
Spiked Amount	50.000	Range	79 - 120	Recovery	=	359.44%#
53) 1,2-dichloroethane-d4 (s)	10.10	65	407277	182.51	ug/L	0.00
Spiked Amount	50.000	Range	72 - 123	Recovery	=	365.02%#
80) toluene-d8 (s)	12.32	98	1366697	170.33	ug/L	0.00
Spiked Amount	50.000	Range	78 - 119	Recovery	=	340.66%#
105) 4-bromofluorobenzene (s)	15.19	95	570652	163.59	ug/L	0.00
Spiked Amount	50.000	Range	74 - 119	Recovery	=	327.18%#

Target Compounds

						Qvalue
2) tertiary butyl alcohol	7.28	59	322068	854.72	ug/L	100
3) 1,4-dioxane	11.35	88	134636	4824.23	ug/L	90
9) chlorodifluoromethane	3.51	51	341074	212.29	ug/L	99
10) dichlorodifluoromethane	3.49	85	511372	207.41	ug/L	99
12) chloromethane	3.82	50	662211	182.72	ug/L	99
13) vinyl chloride	4.08	62	615051	194.07	ug/L	99
14) bromomethane	4.71	94	287158	156.52	ug/L	99
15) chloroethane	4.88	64	195393	143.69	ug/L	98
19) trichlorofluoromethane	5.41	101	599191	204.51	ug/L	99
20) ethyl ether	5.86	74	207053	194.30	ug/L	97
22) acrolein	6.14	56	1055346	2094.54	ug/L	100
23) 1,1-dichloroethene	6.32	96	357228	199.43	ug/L	98
24) acetone	6.40	43	164312	189.24	ug/L	95
25) acetonitrile	6.89	40	437520	1420.17	ug/L	98
26) allyl chloride	6.90	76	190620	62.30	ug/L	95
27) iodomethane	6.60	142	698283	199.83	ug/L	100
28) carbon disulfide	6.73	76	1256062	131.90	ug/L	99
29) 2-CHLOROPROPANE	6.06	43	707787	195.33	ug/L	99
30) methylene chloride	7.13	84	396632	188.24	ug/L	99
31) methyl acetate	6.91	43	385238	213.17	ug/L	99
32) methyl tert butyl ether	7.50	73	1161620	184.72	ug/L	97
33) trans-1,2-dichloroethene	7.54	96	362791	215.47	ug/L	99
34) 1-CHLOROPROPANE	7.15	42	715036	49.20	ug/L	97
35) di-isopropyl ether	8.20	45	1346899	190.14	ug/L	# 71
36) 2-butanone	9.01	72	56953	206.58	ug/L	# 87
37) 1,1-dichloroethane	8.19	63	712935	190.19	ug/L	99
38) chloroprene	8.31	53	528203	215.76	ug/L	99
39) acrylonitrile	7.51	53	904811	1054.07	ug/L	100
40) vinyl acetate	8.21	86	70183	228.26	ug/L	97
41) ethyl tert-butyl ether	8.72	59	1238887	189.49	ug/L	98
42) ethyl acetate	9.04	45	79644	223.74	ug/L	97
43) 2,2-dichloropropane	9.01	77	540250	187.93	ug/L	99
44) cis-1,2-dichloroethene	9.02	96	401350	211.86	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : 1C128185.D
 Acq On : 12 May 2014 4:39 pm
 Operator : mariceld
 Sample : ic5716-200
 Misc : MS66796,V1C5716,5,,,1
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 13 12:59:59 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M1C5716.M
 Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
 QLast Update : Tue May 13 08:42:05 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) propionitrile	9.11	54	760384	2144.50	ug/L	89
46) methylacrylate	9.11	55	548094	227.34	ug/L	99
47) bromochloromethane	9.36	128	203859	208.32	ug/L	99
48) tetrahydrofuran	9.41	72	67452	215.49	ug/L	98
49) chloroform	9.44	85	419261	193.87	ug/L	97
50) T-BUTYL FORMATE	9.47	59	367637	193.28	ug/L	99
51) isobutyl alcohol	9.97	43	302420	1320.33	ug/L	99
54) freon 113	6.28	151	267306	198.35	ug/L	98
55) methacrylonitrile	9.31	67	191015	203.07	ug/L	99
56) 1,1,1-trichloroethane	9.69	97	553828	197.02	ug/L	98
57) Cyclohexane	9.76	84	577890	200.06	ug/L	99
59) ISO-OCTANE	10.18	57	1560024	202.76	ug/L	99
60) epichlorohydrin	11.93	57	290644	1009.19	ug/L	100
61) n-butyl alcohol	10.77	56	966051	10682.82	ug/L	98
62) carbon tetrachloride	9.90	117	520674	201.22	ug/L	100
63) 1,1-dichloropropene	9.89	75	520348	207.26	ug/L	99
64) hexane	7.89	57	430523	215.85	ug/L	99
65) benzene	10.16	78	1510388	188.48	ug/L	99
66) tert-amyl methyl ether	10.22	73	1265556	192.05	ug/L	100
67) heptane	10.37	57	276712	146.34	ug/L	96
68) isopropyl acetate	10.13	43	1148198	194.47	ug/L	99
69) 1,2-dichloroethane	10.19	62	507174	203.91	ug/L	99
70) trichloroethene	10.93	95	378432	205.73	ug/L	99
71) 2-nitropropane	11.78	41	175710	183.07	ug/L	100
72) 2-chloroethyl vinyl ether	11.81	63	1383035	1016.48	ug/L	98
73) methyl methacrylate	11.25	100	113372	222.25	ug/L	97
74) 1,2-dichloropropane	11.21	63	422211	204.12	ug/L	98
75) dibromomethane	11.38	93	257570	198.60	ug/L	97
76) methylcyclohexane	11.15	83	617427	204.56	ug/L	99
77) bromodichloromethane	11.53	83	528828	196.23	ug/L	99
79) cis-1,3-dichloropropene	12.02	75	672403	200.12	ug/L	99
81) 4-methyl-2-pentanone	12.14	58	217548	208.39	ug/L	99
82) toluene	12.40	92	927854	194.99	ug/L	98
83) 3-methyl-1-butanol	12.19	55	644053	4300.44	ug/L	99
84) trans-1,3-dichloropropene	12.63	75	633353	209.31	ug/L	96
85) ethyl methacrylate	12.64	69	607326	223.22	ug/L	97
86) 1,1,2-trichloroethane	12.86	83	323714	202.49	ug/L	98
87) 2-hexanone	13.05	58	216026	209.54	ug/L	98
89) tetrachloroethene	13.03	164	348363	208.99	ug/L	99
90) 1,3-dichloropropane	13.05	76	633547	191.98	ug/L	98
91) butyl acetate	13.14	56	354181	193.52	ug/L	99
92) 3,3-DIMETHYL-1-BUTANOL	13.26	57	696930	1723.97	ug/L	98
93) dibromochloromethane	13.33	129	471928	202.13	ug/L	99
94) 1,2-dibromoethane	13.48	107	407240	201.42	ug/L	99
95) chlorobenzene	13.98	112	1100216	191.49	ug/L	99
96) 1,1,1,2-tetrachloroethane	14.05	131	453081	202.59	ug/L	97
97) ethylbenzene	14.04	91	1933102	192.84	ug/L	98
98) m,p-xylene	14.16	106	1510964	404.09	ug/L	99
99) o-xylene	14.61	106	760830	196.25	ug/L	97
100) styrene	14.62	104	1287084	203.76	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : 1C128185.D
 Acq On : 12 May 2014 4:39 pm
 Operator : mariceld
 Sample : ic5716-200
 Misc : MS66796,V1C5716,5,,,1
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 13 12:59:59 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M1C5716.M
 Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
 QLast Update : Tue May 13 08:42:05 2014
 Response via : Initial Calibration

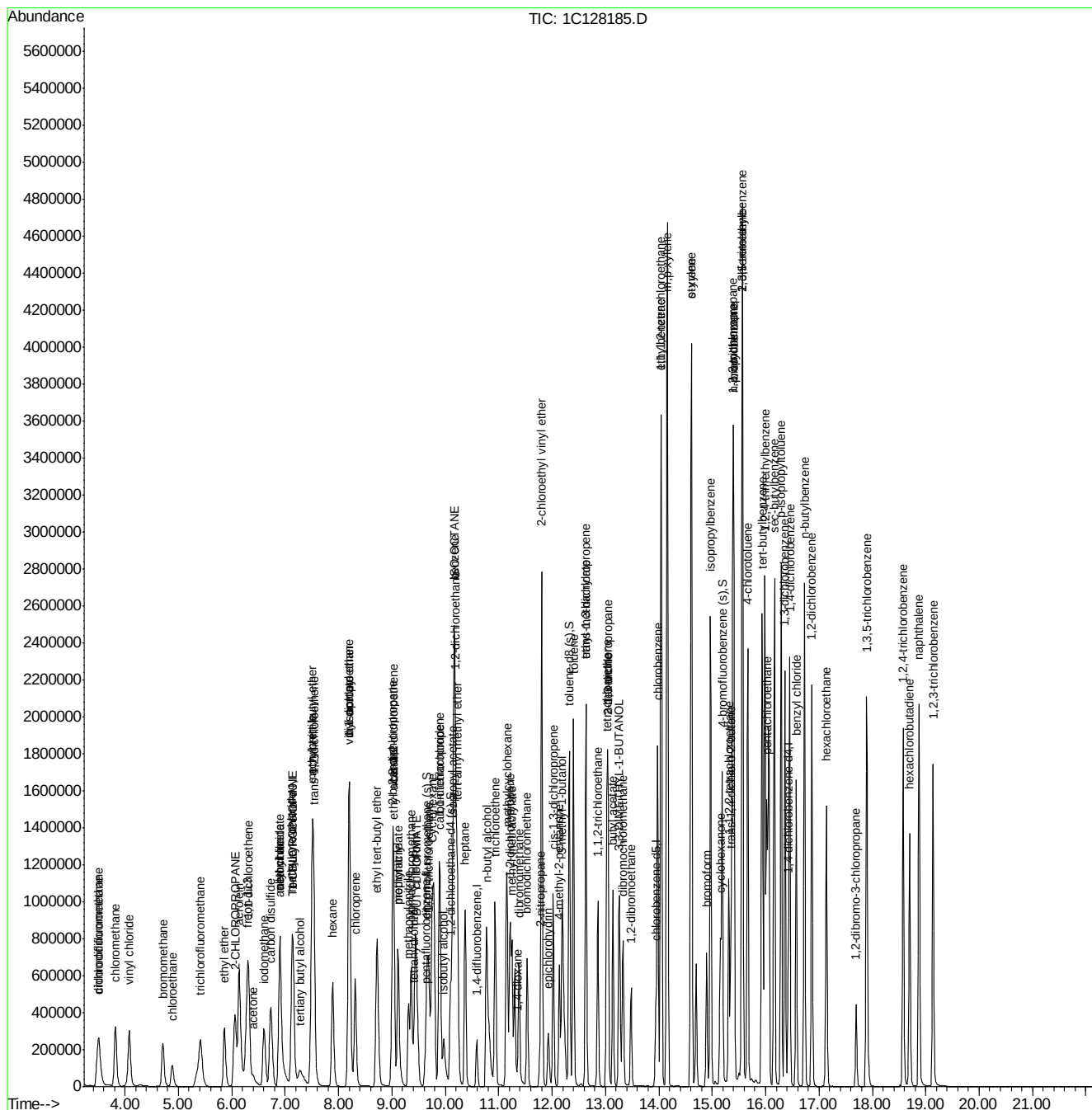
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
102) bromoform	14.90	173	400596	203.45	ug/L	97
104) isopropylbenzene	14.97	105	1981195	191.97	ug/L	98
106) cyclohexanone	15.15	55	407777	1960.55	ug/L	99
107) bromobenzene	15.39	156	569219	205.86	ug/L	93
108) 1,1,2,2-tetrachloroethane	15.31	83	657592	177.01	ug/L	99
109) trans-1,4-dichloro-2-buten	15.35	53	193562	191.04	ug/L	99
110) 1,2,3-trichloropropane	15.38	110	163052	195.66	ug/L	100
111) n-propylbenzene	15.41	91	2319955	192.80	ug/L	99
112) 2-chlorotoluene	15.56	126	517374	209.22	ug/L	97
113) 4-chlorotoluene	15.67	91	1450954	192.31	ug/L	97
114) 1,3,5-trimethylbenzene	15.57	105	1747291	195.19	ug/L	99
115) tert-butylbenzene	15.93	119	1470436	192.58	ug/L	99
116) pentachloroethane	16.02	167	371390	205.75	ug/L	99
117) 1,2,4-trimethylbenzene	15.99	105	1675771	187.42	ug/L	100
118) sec-butylbenzene	16.16	105	2238108	186.99	ug/L	99
119) 1,3-dichlorobenzene	16.36	146	1039603	184.21	ug/L	100
120) p-isopropyltoluene	16.29	119	1881443	187.86	ug/L	99
122) 1,4-dichlorobenzene	16.45	146	1064449	176.83	ug/L	99
123) benzyl chloride	16.57	91	1322372	181.71	ug/L	99
124) 1,2-dichlorobenzene	16.86	146	1005702	176.01	ug/L	99
125) n-butylbenzene	16.73	92	955907	182.32	ug/L	98
126) 1,2-dibromo-3-chloropropan	17.70	75	126313	171.59	ug/L	95
127) 1,3,5-trichlorobenzene	17.90	180	846633	173.83	ug/L	100
128) 1,2,4-trichlorobenzene	18.58	180	765738	171.71	ug/L	100
129) hexachlorobutadiene	18.70	225	391271	166.04	ug/L	99
130) naphthalene	18.87	128	1893488	177.66	ug/L	100
131) 1,2,3-trichlorobenzene	19.13	180	695602	178.00	ug/L	100
132) hexachloroethane	17.14	201	362154	203.48	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 1C128185.D
Acq On : 12 May 2014 4:39 pm
Operator : mariceld
Sample : ic5716-200
Misc : MS66796,V1C5716,5,,,,,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 13 12:59:59 2014
Quant Method : C:\MSDCHEM\1\METHODS\M1C5716.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Tue May 13 08:42:05 2014
Response via : Initial Calibration



M1C5716.M Wed May 14 09:10:31 2014 RPT1

Page: 4

7.6.10



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : 1C128188.D
 Acq On : 12 May 2014 6:09 pm
 Operator : mariceld
 Sample : icv5716-50
 Misc : MS66796,V1C5716,5,,,1
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 13 13:10:27 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M1C5716.M
 Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
 QLast Update : Tue May 13 12:33:26 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.14	65	144112	500.00	ug/L	0.01
4) pentafluorobenzene	9.63	168	165916	50.00	ug/L	0.00
58) 1,4-difluorobenzene	10.59	114	259137	50.00	ug/L	0.00
88) chlorobenzene-d5	13.94	117	234327	50.00	ug/L	0.00
103) 1,4-dichlorobenzene-d4	16.42	152	141721	50.00	ug/L	0.00

System Monitoring Compounds

52) dibromofluoromethane (s)	9.66	113	90536	46.46	ug/L	0.00
Spiked Amount	50.000	Range	79 - 120	Recovery	=	92.92%
53) 1,2-dichloroethane-d4 (s)	10.10	65	103803	45.96	ug/L	0.00
Spiked Amount	50.000	Range	72 - 123	Recovery	=	91.92%
80) toluene-d8 (s)	12.32	98	327625	45.13	ug/L	0.00
Spiked Amount	50.000	Range	78 - 119	Recovery	=	90.26%
105) 4-bromofluorobenzene (s)	15.19	95	125482	44.98	ug/L	0.00
Spiked Amount	50.000	Range	74 - 119	Recovery	=	89.96%

Target Compounds

						Qvalue
2) tertiary butyl alcohol	7.27	59	82794	234.43	ug/L	100
3) 1,4-dioxane	11.35	88	32779	1186.54	ug/L	96
9) chlorodifluoromethane	3.51	51	83862	47.75	ug/L	99
10) dichlorodifluoromethane	3.49	85	123228	44.31	ug/L	96
12) chloromethane	3.80	50	167203	45.54	ug/L	99
13) vinyl chloride	4.06	62	154077	47.72	ug/L	98
14) bromomethane	4.71	94	93080	47.23	ug/L	100
15) chloroethane	4.90	64	65592	47.68	ug/L	99
19) trichlorofluoromethane	5.42	101	144254	45.81	ug/L	98
20) ethyl ether	5.86	74	55362	51.02	ug/L	97
22) acrolein	6.14	56	263851	477.54	ug/L	99
23) 1,1-dichloroethene	6.31	96	90086	49.23	ug/L	97
24) acetone	6.40	43	40004	45.35	ug/L	92
25) acetonitrile	6.90	40	120551	456.80	ug/L	92
26) allyl chloride	6.91	76	57022	59.02	ug/L	93
27) iodomethane	6.61	142	175769	48.24	ug/L	99
28) carbon disulfide	6.73	76	329698	47.41	ug/L	98
29) 2-CHLOROPROPANE	6.06	43	186251	48.44	ug/L	98
30) methylene chloride	7.13	84	100326	46.87	ug/L	98
31) methyl acetate	6.92	43	93783	46.42	ug/L	98
32) methyl tert butyl ether	7.50	73	588286	92.24	ug/L	98
33) trans-1,2-dichloroethene	7.54	96	91506	49.05	ug/L	99
34) 1-CHLOROPROPANE	7.16	42	195695	49.73	ug/L	99
35) di-isopropyl ether	8.19	45	350514	48.66	ug/L	99
36) 2-butanone	9.02	72	14353	50.67	ug/L	# 21
37) 1,1-dichloroethane	8.19	63	188065	49.36	ug/L	100
38) chloroprene	8.31	53	128337	45.73	ug/L	99
39) acrylonitrile	7.51	53	239310	247.16	ug/L	98
40) vinyl acetate	8.21	86	18595	54.98	ug/L	83
41) ethyl tert-butyl ether	8.72	59	314310	47.29	ug/L	99
42) ethyl acetate	9.04	45	19322	48.73	ug/L	80
43) 2,2-dichloropropane	9.01	77	137386	46.09	ug/L	98
44) cis-1,2-dichloroethene	9.03	96	101944	49.29	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : 1C128188.D
 Acq On : 12 May 2014 6:09 pm
 Operator : mariceld
 Sample : icv5716-50
 Misc : MS66796,V1C5716,5,,,1
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 13 13:10:27 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M1C5716.M
 Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
 QLast Update : Tue May 13 12:33:26 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) propionitrile	9.11	54	200748	503.44	ug/L	95
46) methylacrylate	9.12	55	140018	50.26	ug/L	97
47) bromochloromethane	9.36	128	52389	49.62	ug/L	100
48) tetrahydrofuran	9.41	72	17024	49.20	ug/L	98
49) chloroform	9.44	85	107807	48.93	ug/L	98
50) T-BUTYL FORMATE	9.47	59	100076	49.38	ug/L	99
51) isobutyl alcohol	9.97	43	75816	470.81	ug/L	96
54) freon 113	6.29	151	69370	50.42	ug/L	98
55) methacrylonitrile	9.31	67	47742	49.56	ug/L	98
56) 1,1,1-trichloroethane	9.69	97	140116	47.69	ug/L	98
57) Cyclohexane	9.76	84	136666	44.64	ug/L	97
59) ISO-OCTANE	10.18	57	349071	41.56	ug/L	96
60) epichlorohydrin	11.93	57	68192	221.84	ug/L	99
61) n-butyl alcohol	10.77	56	229821	2201.90	ug/L	98
62) carbon tetrachloride	9.90	117	128566	46.77	ug/L	99
63) 1,1-dichloropropene	9.89	75	126886	47.16	ug/L	99
65) benzene	10.17	78	387765	47.38	ug/L	98
66) tert-amyl methyl ether	10.22	73	303638	45.04	ug/L	100
68) isopropyl acetate	10.13	43	281312	45.53	ug/L	99
69) 1,2-dichloroethane	10.19	62	130171	48.46	ug/L	97
70) trichloroethene	10.93	95	95939	48.94	ug/L	99
71) 2-nitropropane	11.78	41	45492	46.64	ug/L	96
72) 2-chloroethyl vinyl ether	11.80	63	372174	259.95	ug/L	100
73) methyl methacrylate	11.25	100	27311	47.95	ug/L	95
74) 1,2-dichloropropane	11.22	63	108153	48.82	ug/L	98
75) dibromomethane	11.38	93	64801	48.68	ug/L	99
76) methylcyclohexane	11.15	83	144212	43.52	ug/L	96
77) bromodichloromethane	11.54	83	133799	48.43	ug/L	100
79) cis-1,3-dichloropropene	12.02	75	164142	47.56	ug/L	99
81) 4-methyl-2-pentanone	12.14	58	53751	46.96	ug/L	99
82) toluene	12.40	92	226799	46.52	ug/L	100
83) 3-methyl-1-butanol	12.18	55	150644	881.11	ug/L	99
84) trans-1,3-dichloropropene	12.63	75	146379	44.31	ug/L	99
85) ethyl methacrylate	12.63	69	137869	45.08	ug/L	98
86) 1,1,2-trichloroethane	12.85	83	78359	46.24	ug/L	98
87) 2-hexanone	13.05	58	48344	45.38	ug/L	98
89) tetrachloroethene	13.03	164	82710	48.95	ug/L	97
90) 1,3-dichloropropane	13.05	76	150581	48.19	ug/L	97
92) 3,3-DIMETHYL-1-BUTANOL	13.25	57	173293	457.18	ug/L	99
93) dibromochloromethane	13.33	129	105876	45.62	ug/L	97
94) 1,2-dibromoethane	13.48	107	95587	47.76	ug/L	98
95) chlorobenzene	13.98	112	258758	47.57	ug/L	99
96) 1,1,1,2-tetrachloroethane	14.05	131	103987	46.82	ug/L	99
97) ethylbenzene	14.04	91	442504	46.60	ug/L	100
98) m,p-xylene	14.16	106	339048	95.27	ug/L	99
99) o-xylene	14.60	106	172496	46.89	ug/L	100
100) styrene	14.62	104	286773	47.66	ug/L	99
102) bromoform	14.89	173	82668	43.27	ug/L	99
104) isopropylbenzene	14.97	105	457820	47.35	ug/L	99
106) cyclohexanone	15.15	55	54020	277.82	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : 1C128188.D
 Acq On : 12 May 2014 6:09 pm
 Operator : mariceld
 Sample : icv5716-50
 Misc : MS66796,V1C5716,5,,,,1
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 13 13:10:27 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M1C5716.M
 Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
 QLast Update : Tue May 13 12:33:26 2014
 Response via : Initial Calibration

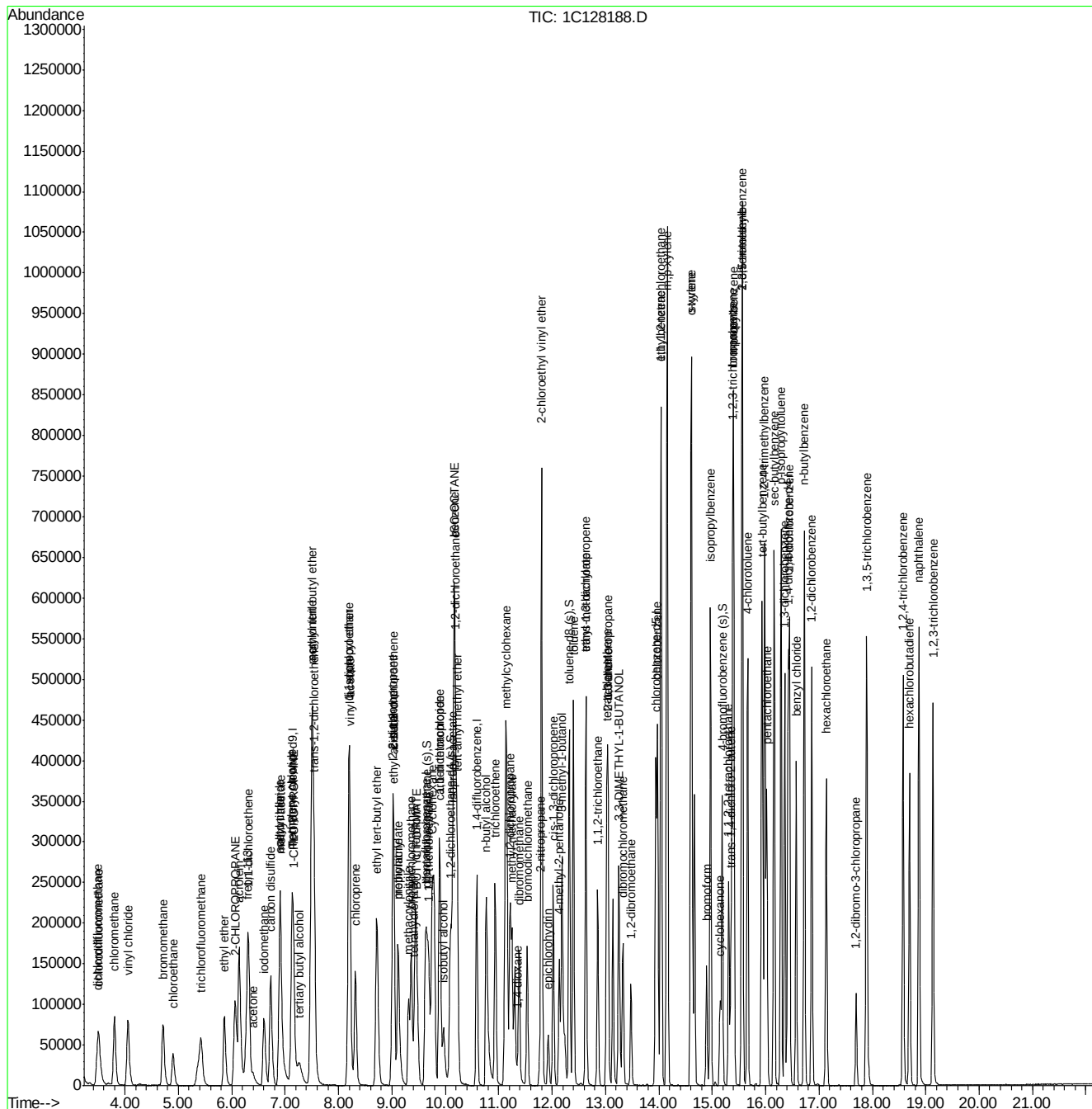
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
107) bromobenzene	15.38	156	126262	48.40	ug/L	98
108) 1,1,2,2-tetrachloroethane	15.31	83	151467	43.85	ug/L	100
109) trans-1,4-dichloro-2-buten	15.35	53	42608	44.96	ug/L	89
110) 1,2,3-trichloropropane	15.38	110	36385	45.03	ug/L	98
111) n-propylbenzene	15.41	91	558706	49.54	ug/L	99
112) 2-chlorotoluene	15.56	126	114834	47.65	ug/L	95
113) 4-chlorotoluene	15.66	91	330409	46.73	ug/L	99
114) 1,3,5-trimethylbenzene	15.57	105	397269	47.29	ug/L	99
115) tert-butylbenzene	15.93	119	348947	48.76	ug/L	98
116) pentachloroethane	16.02	167	88171	49.32	ug/L	98
117) 1,2,4-trimethylbenzene	15.98	105	408337	48.86	ug/L	99
118) sec-butylbenzene	16.16	105	532287	47.59	ug/L	100
119) 1,3-dichlorobenzene	16.36	146	240448	45.65	ug/L	99
120) p-isopropyltoluene	16.29	119	456716	48.77	ug/L	99
122) 1,4-dichlorobenzene	16.45	146	247203	45.38	ug/L	98
123) benzyl chloride	16.57	91	314668	46.39	ug/L	100
124) 1,2-dichlorobenzene	16.87	146	244052	45.96	ug/L	99
125) n-butylbenzene	16.72	92	240940	49.29	ug/L	99
126) 1,2-dibromo-3-chloropropan	17.70	75	32619	46.65	ug/L	93
127) 1,3,5-trichlorobenzene	17.89	180	222103	49.12	ug/L	100
128) 1,2,4-trichlorobenzene	18.58	180	198648	48.03	ug/L	100
129) hexachlorobutadiene	18.70	225	107905	49.52	ug/L	100
130) naphthalene	18.87	128	506402	46.64	ug/L	100
131) 1,2,3-trichlorobenzene	19.14	180	189339	47.83	ug/L	99
132) hexachloroethane	17.14	201	90911	51.71	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 1C128188.D
Acq On : 12 May 2014 6:09 pm
Operator : mariceld
Sample : icv5716-50
Misc : MS66796,V1C5716,5,,,,,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 13 13:10:27 2014
Quant Method : C:\MSDCHEM\1\METHODS\M1C5716.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Tue May 13 12:33:26 2014
Response via : Initial Calibration



7.6.11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1C core\v1c5745-5746\
 Data File : 1C128859.D
 Acq On : 2 Jun 2014 10:53 pm
 Operator : mariceld
 Sample : cc5716-50
 Misc : MS68178,V1C5746,5,,,,,1
 ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jun 03 16:05:38 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M1C5716.M
 Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
 QLast Update : Tue May 13 12:33:26 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	7.132	65	108431	500.00	ug/L	0.00
4) pentafluorobenzene	9.627	168	146005	50.00	ug/L	0.00
58) 1,4-difluorobenzene	10.584	114	221548	50.00	ug/L	0.00
88) chlorobenzene-d5	13.941	117	212385	50.00	ug/L	0.00
103) 1,4-dichlorobenzene-d4	16.421	152	127793	50.00	ug/L	0.00
System Monitoring Compounds						
52) dibromofluoromethane (s)	9.653	113	87161	50.83	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery =	101.66%		
53) 1,2-dichloroethane-d4 (s)	10.097	65	99341	49.99	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery =	99.98%		
80) toluene-d8 (s)	12.320	98	321486	51.80	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery =	103.60%		
105) 4-bromofluorobenzene (s)	15.186	95	125249	49.79	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery =	99.58%		
Target Compounds						
					Qvalue	
2) tertiary butyl alcohol	7.257	59	70242	264.34	ug/L	100
3) 1,4-dioxane	11.347	88	21982	1057.55	ug/L	93
9) chlorodifluoromethane	3.497	51	96719	62.58	ug/L	98
10) dichlorodifluoromethane	3.481	85	125007	51.09	ug/L	97
12) chloromethane	3.800	50	150769	46.66	ug/L	99
13) vinyl chloride	4.056	62	144264	50.77	ug/L	98
14) bromomethane	4.715	94	91171	52.57	ug/L	99
15) chloroethane	4.898	64	62504	51.63	ug/L	97
19) trichlorofluoromethane	5.421	101	157286	56.76	ug/L	100
20) ethyl ether	5.861	74	49347	51.68	ug/L	98
22) acrolein	6.138	56	233949	481.16	ug/L	100
23) 1,1-dichloroethene	6.305	96	88605	55.02	ug/L	94
24) acetone	6.399	43	35283	45.45	ug/L	96
25) acetonitrile	6.891	40	95266	410.22	ug/L	92
26) allyl chloride	6.907	76	45730	53.79	ug/L	97
27) iodomethane	6.603	142	176480	55.04	ug/L	99
28) carbon disulfide	6.724	76	308968	50.49	ug/L	100
29) 2-CHLOROPROPANE	6.059	43	177971	52.60	ug/L	97
30) methylene chloride	7.121	84	99223	52.67	ug/L	96
31) methyl acetate	6.912	43	93628	52.67	ug/L	97
32) methyl tert butyl ether	7.493	73	289165	51.52	ug/L	97
33) trans-1,2-dichloroethene	7.540	96	91249	55.59	ug/L	100
34) 1-CHLOROPROPANE	7.153	42	186498	54.27	ug/L	95
35) di-isopropyl ether	8.193	45	334238	52.73	ug/L	98
36) 2-butanone	9.009	72	13005	52.17	ug/L	93
37) 1,1-dichloroethane	8.193	63	179951	53.67	ug/L	96
38) chloroprene	8.314	53	138836	56.22	ug/L	98
39) acrylonitrile	7.508	53	217808	255.63	ug/L	99
40) vinyl acetate	8.209	86	15331	51.51	ug/L	97
41) ethyl tert-butyl ether	8.716	59	312277	53.39	ug/L	98
42) ethyl acetate	9.041	45	18345	52.58	ug/L	96
43) 2,2-dichloropropane	9.015	77	137314	52.35	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1C core\v1c5745-5746\
 Data File : 1C128859.D
 Acq On : 2 Jun 2014 10:53 pm
 Operator : mariceld
 Sample : cc5716-50
 Misc : MS68178,V1C5746,5,,,1
 ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jun 03 16:05:38 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M1C5716.M
 Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
 QLast Update : Tue May 13 12:33:26 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) cis-1,2-dichloroethene	9.025	96	101734	55.90	ug/L	98
45) propionitrile	9.114	54	178989	510.08	ug/L	95
46) methylacrylate	9.114	55	125554	51.21	ug/L	98
47) bromochloromethane	9.360	128	51037	54.93	ug/L	97
48) tetrahydrofuran	9.407	72	15195	49.90	ug/L	98
49) chloroform	9.438	85	108025	55.72	ug/L	98
50) T-BUTYL FORMATE	9.464	59	88516	49.63	ug/L	97
51) isobutyl alcohol	9.961	43	63426	447.58	ug/L	98
54) freon 113	6.290	151	75391	62.27	ug/L	96
55) methacrylonitrile	9.313	67	43944	51.83	ug/L	98
56) 1,1,1-trichloroethane	9.689	97	146148	56.53	ug/L	98
57) Cyclohexane	9.757	84	140525	52.16	ug/L	95
59) ISO-OCTANE	10.176	57	362479	50.48	ug/L	98
60) epichlorohydrin	11.928	57	64972	247.22	ug/L	98
61) n-butyl alcohol	10.767	56	188500	2112.42	ug/L	97
62) carbon tetrachloride	9.904	117	133659	56.87	ug/L	99
63) 1,1-dichloropropene	9.888	75	129012	56.09	ug/L	100
64) hexane	7.895	57	114462	56.84	ug/L	98
65) benzene	10.160	78	377664	53.98	ug/L	99
66) tert-amyl methyl ether	10.218	73	299514	51.96	ug/L	98
67) heptane	10.369	57	65699	51.70	ug/L	98
68) isopropyl acetate	10.134	43	260944	49.40	ug/L	99
69) 1,2-dichloroethane	10.191	62	128911	56.13	ug/L	99
70) trichloroethene	10.934	95	96597	57.64	ug/L	99
71) 2-nitropropane	11.771	41	44365	53.20	ug/L	98
72) 2-chloroethyl vinyl ether	11.802	63	366838	299.70	ug/L	99
73) methyl methacrylate	11.248	100	25741	52.86	ug/L	93
74) 1,2-dichloropropane	11.211	63	103243	54.52	ug/L	98
75) dibromomethane	11.384	93	61802	54.31	ug/L	96
76) methylcyclohexane	11.154	83	156251	55.16	ug/L	98
77) bromodichloromethane	11.530	83	130690	55.33	ug/L	99
79) cis-1,3-dichloropropene	12.022	75	158250	53.63	ug/L	99
81) 4-methyl-2-pentanone	12.132	58	48262	49.32	ug/L	95
82) toluene	12.399	92	229520	55.06	ug/L	100
83) 3-methyl-1-butanol	12.184	55	130914	895.63	ug/L	99
84) trans-1,3-dichloropropene	12.629	75	145988	51.69	ug/L	99
85) ethyl methacrylate	12.634	69	135071	51.66	ug/L	98
86) 1,1,2-trichloroethane	12.854	83	76687	52.93	ug/L	99
87) 2-hexanone	13.052	58	44655	49.03	ug/L	95
89) tetrachloroethene	13.021	164	86407	56.42	ug/L	97
90) 1,3-dichloropropane	13.047	76	146629	51.77	ug/L	97
91) butyl acetate	13.136	56	74319	46.95	ug/L	92
92) 3,3-DIMETHYL-1-BUTANOL	13.251	57	154921	450.93	ug/L	99
93) dibromochloromethane	13.324	129	107291	51.00	ug/L	98
94) 1,2-dibromoethane	13.476	107	95282	52.53	ug/L	100
95) chlorobenzene	13.978	112	263280	53.40	ug/L	99
96) 1,1,1,2-tetrachloroethane	14.046	131	108231	53.76	ug/L	99
97) ethylbenzene	14.041	91	460933	53.55	ug/L	99
98) m,p-xylene	14.156	106	349016	108.21	ug/L	100
99) o-xylene	14.600	106	177766	53.31	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1C core\v1c5745-5746\
Data File : 1C128859.D
Acq On : 2 Jun 2014 10:53 pm
Operator : mariceld
Sample : cc5716-50
Misc : MS68178,V1C5746,5,,,,,1
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jun 03 16:05:38 2014
Quant Method : C:\MSDCHEM\1\METHODS\M1C5716.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Tue May 13 12:33:26 2014
Response via : Initial Calibration

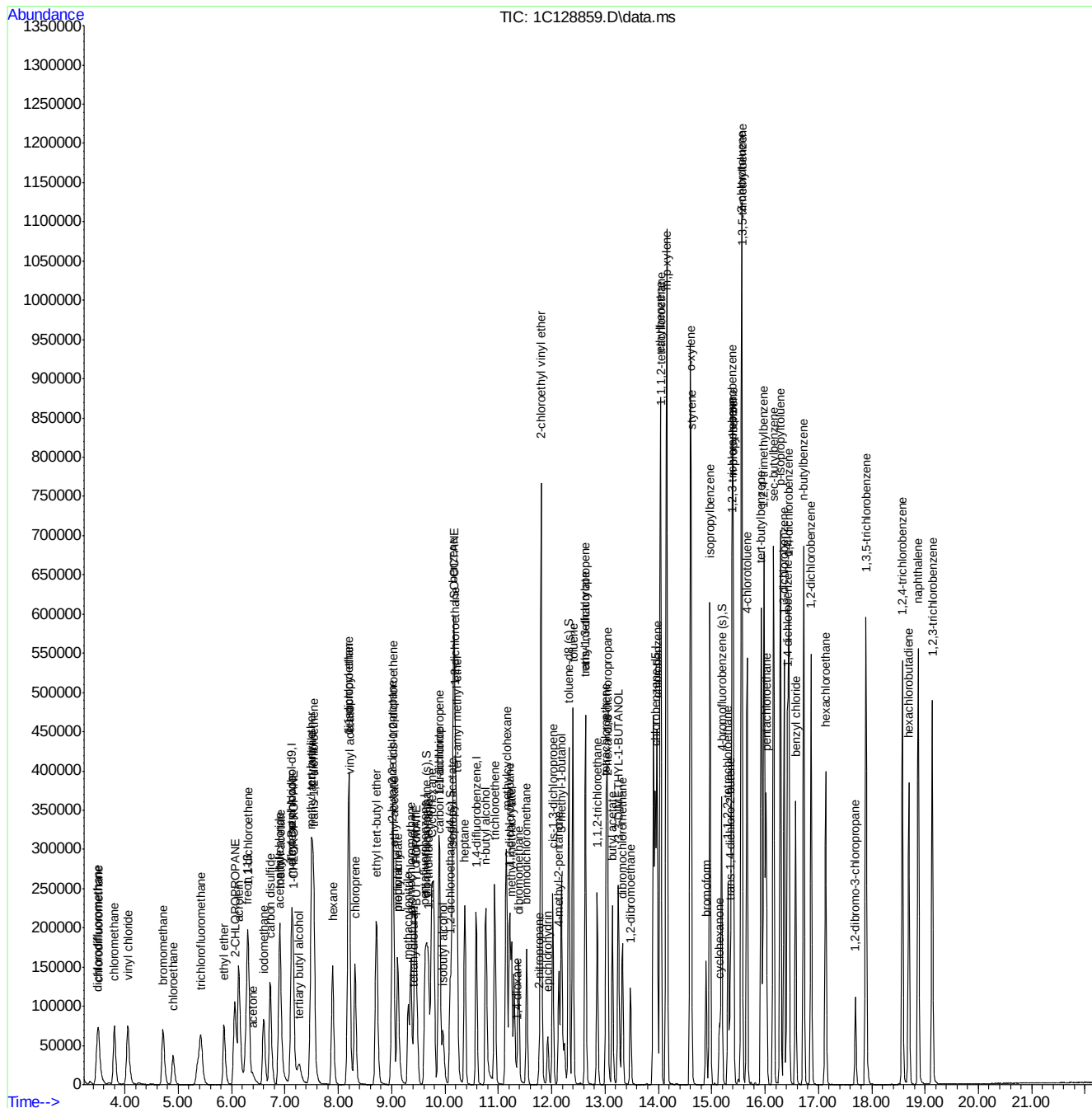
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
100) styrene	14.616	104	296594	54.39	ug/L	98
102) bromoform	14.893	173	87325	50.43	ug/L	96
104) isopropylbenzene	14.967	105	478062	54.83	ug/L	100
106) cyclohexanone	15.150	55	40613	231.64	ug/L	98
107) bromobenzene	15.385	156	130969	55.68	ug/L	96
108) 1,1,2,2-tetrachloroethane	15.307	83	151963	48.78	ug/L	98
109) trans-1,4-dichloro-2-b...	15.354	53	35518	41.56	ug/L	100
110) 1,2,3-trichloropropane	15.380	110	35759	49.08	ug/L	98
111) n-propylbenzene	15.406	91	548505	53.93	ug/L	100
112) 2-chlorotoluene	15.558	126	119787	55.12	ug/L	99
113) 4-chlorotoluene	15.662	91	340021	53.34	ug/L	99
114) 1,3,5-trimethylbenzene	15.568	105	413348	54.57	ug/L	100
115) tert-butylbenzene	15.929	119	353031	54.71	ug/L	99
116) pentachloroethane	16.023	167	93088	57.74	ug/L	97
117) 1,2,4-trimethylbenzene	15.981	105	409187	54.29	ug/L	100
118) sec-butylbenzene	16.159	105	557541	55.28	ug/L	99
119) 1,3-dichlorobenzene	16.358	146	255197	53.73	ug/L	99
120) p-isopropyltoluene	16.290	119	469440	55.60	ug/L	100
122) 1,4-dichlorobenzene	16.447	146	260389	53.00	ug/L	99
123) benzyl chloride	16.572	91	285755	46.72	ug/L	99
124) 1,2-dichlorobenzene	16.865	146	257717	53.82	ug/L	98
125) n-butylbenzene	16.724	92	239809	54.40	ug/L	99
126) 1,2-dibromo-3-chloropr...	17.697	75	31479	49.92	ug/L	95
127) 1,3,5-trichlorobenzene	17.890	180	232869	57.12	ug/L	99
128) 1,2,4-trichlorobenzene	18.575	180	211041	56.59	ug/L	100
129) hexachlorobutadiene	18.696	225	109409	55.68	ug/L	99
130) naphthalene	18.874	128	503079	51.38	ug/L	100
131) 1,2,3-trichlorobenzene	19.135	180	194006	54.35	ug/L	99
132) hexachloroethane	17.137	201	94510	59.62	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

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Data Path : C:\msdchem\1\DATA\1C core\v1c5745-5746\
Data File : 1C128859.D
Acq On    : 2 Jun 2014 10:53 pm
Operator  : mariceld
Sample    : cc5716-50
Misc      : MS68178,V1C5746,5,,,,1
ALS Vial  : 28 Sample Multiplier: 1
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Quant Time: Jun 03 16:05:38 2014
Quant Method : C:\MSDCHEM\1\METHODS\M1C5716.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Tue May 13 12:33:26 2014
Response via : Initial Calibration



7.6.12



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 3V11183.D
 Acq On : 22 May 2014 10:20 am
 Operator : thienn
 Sample : ic474-0.2
 Misc : MS65178,V3V474,5,,,,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 22 15:37:46 2014
 Quant Method : C:\msdchem\1\METHODS\M3V474.M
 Quant Title : SW-846 Method 8260
 QLast Update : Thu May 22 15:35:08 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	7.290	65	92286	500.00	ug/L	-0.02
5) pentafluorobenzene	9.780	168	158490	50.00	ug/L	0.00
49) 1,4-difluorobenzene	10.750	114	239192	50.00	ug/L	0.00
79) chlorobenzene-d5	13.970	117	228087	50.00	ug/L	0.00
93) 1,4-dichlorobenzene-d4	16.324	152	145861	50.00	ug/L	0.00
System Monitoring Compounds						
43) dibromofluoromethane (s)	9.833	113	676	0.34	ug/L	0.00
Spiked Amount	50.000	Range	59 - 130	Recovery	=	0.68%#
44) 1,2-dichloroethane-d4 (s)	10.278	65	702	0.41	ug/L	0.00
Spiked Amount	50.000	Range	65 - 123	Recovery	=	0.82%#
71) toluene-d8 (s)	12.418	98	2010	0.33	ug/L	0.00
Spiked Amount	50.000	Range	80 - 124	Recovery	=	0.66%#
95) 4-bromofluorobenzene (s)	15.165	95	1564	0.62	ug/L	0.00
Spiked Amount	50.000	Range	71 - 132	Recovery	=	1.24%#
Target Compounds						
57) benzene	10.331	78	1452	0.19	ug/L	78
73) toluene	12.491	92	993	0.23	ug/L	85
86) chlorobenzene	14.001	112	954	0.18	ug/L	96
88) ethylbenzene	14.053	91	1960	0.21	ug/L	94
89) m,p-xylene	14.164	106	1787	0.49	ug/L	93
90) o-xylene	14.593	106	649	0.17	ug/L	91
91) styrene	14.609	104	920	0.16	ug/L	88

(#) = qualifier out of range (m) = manual integration (+) = signals summed

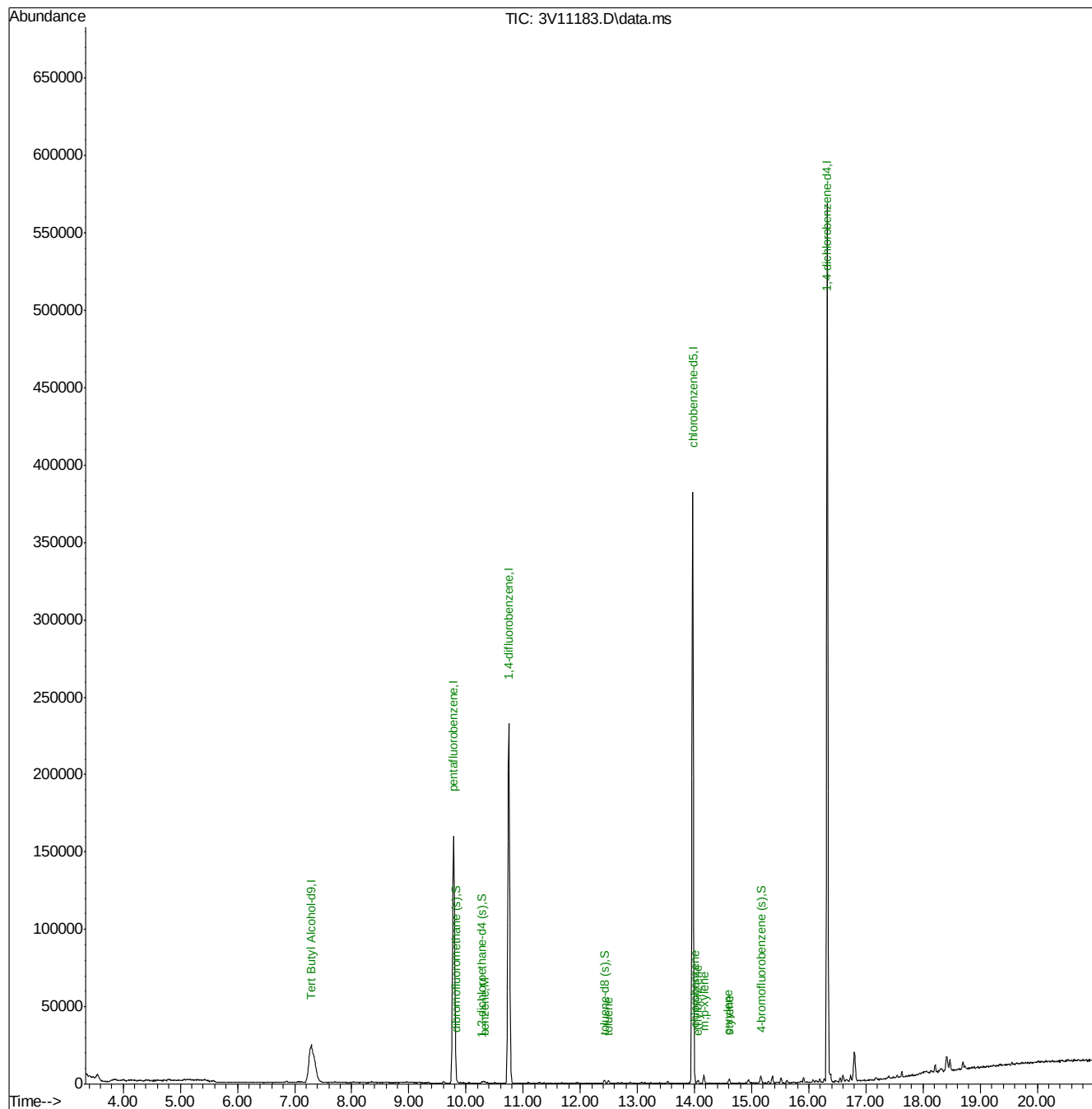
7.6.13

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 3V11183.D
Acq On : 22 May 2014 10:20 am
Operator : thienn
Sample : ic474-0.2
Misc : MS65178,V3V474,5,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 22 15:37:46 2014
Quant Method : C:\msdchem\1\METHODS\M3V474.M
Quant Title : SW-846 Method 8260
QLast Update : Thu May 22 15:35:08 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 3V11184.D
 Acq On : 22 May 2014 10:47 am
 Operator : thienn
 Sample : ic474-0.5
 Misc : MS65178,V3V474,5,,,,,1
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 22 15:40:09 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M3V474.M
 Quant Title : SW-846 Method 8260
 QLast Update : Thu May 22 08:28:30 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	7.306	65	96233	500.00	ug/L	0.00
5) pentafluorobenzene	9.786	168	162348	50.00	ug/L	0.00
49) 1,4-difluorobenzene	10.750	114	248601	50.00	ug/L	0.00
79) chlorobenzene-d5	13.969	117	235997	50.00	ug/L	0.00
93) 1,4-dichlorobenzene-d4	16.324	152	152552	50.00	ug/L	0.00
System Monitoring Compounds						
43) dibromofluoromethane (s)	9.838	113	1307	0.61	ug/L	0.00
Spiked Amount	50.000	Range	59 - 130	Recovery	=	1.22%#
44) 1,2-dichloroethane-d4 (s)	10.278	65	1131	0.61	ug/L	0.00
Spiked Amount	50.000	Range	65 - 123	Recovery	=	1.22%#
71) toluene-d8 (s)	12.418	98	3647	0.56	ug/L	0.00
Spiked Amount	50.000	Range	80 - 124	Recovery	=	1.12%#
95) 4-bromofluorobenzene (s)	15.165	95	2211	0.72	ug/L	0.00
Spiked Amount	50.000	Range	71 - 132	Recovery	=	1.44%#
Target Compounds						
					Qvalue	
16) 1,1-dichloroethene	6.430	96	1203	0.53	ug/L #	33
22) carbon disulfide	6.865	76	3865	0.44	ug/L	87
26) methyl tert butyl ether	7.652	73	2341	0.42	ug/L	79
27) trans-1,2-dichloroethene	7.694	96	1326	0.55	ug/L #	68
28) di-isopropyl ether	8.338	45	2572	0.45	ug/L	90
29) ethyl tert-butyl ether	8.863	59	2333	0.41	ug/L	94
31) 1,1-dichloroethane	8.370	63	1502	0.40	ug/L	84
32) chloroprene	8.470	53	770	0.33	ug/L	77
36) 2,2-dichloropropane	9.177	77	1595	0.44	ug/L #	50
37) cis-1,2-dichloroethene	9.198	96	1783	0.65	ug/L #	68
42) chloroform	9.613	83	2187	0.54	ug/L	92
47) 1,1,1-trichloroethane	9.859	97	1627	0.45	ug/L	73
48) tert-amyl methyl ether	10.367	73	2775	0.49	ug/L	98
53) carbon tetrachloride	10.058	117	1408	0.42	ug/L #	81
54) 1,1-dichloropropene	10.048	75	1155	0.44	ug/L	88
57) benzene	10.336	78	3804	0.42	ug/L	92
60) 1,2-dichloroethane	10.378	62	1002	0.44	ug/L #	49
61) trichloroethene	11.086	95	935	0.44	ug/L	80
64) 2-chloroethyl vinyl ether	11.940	63	1566	2.24	ug/L	90
66) 1,2-dichloropropane	11.379	63	854	0.43	ug/L #	40
67) methylcyclohexane	11.280	83	1221	0.36	ug/L	91
68) dibromomethane	11.542	93	427	0.36	ug/L	86
69) bromodichloromethane	11.684	83	1141	0.44	ug/L	96
70) cis-1,3-dichloropropene	12.145	75	1196	0.42	ug/L	94
73) toluene	12.496	92	2344	0.47	ug/L	89
75) trans-1,3-dichloropropene	12.727	75	950	0.38	ug/L	93
77) 1,1,2-trichloroethane	12.937	83	512	0.39	ug/L #	65
80) tetrachloroethene	13.083	166	940	0.40	ug/L	87
81) 1,3-dichloropropane	13.125	76	924	0.37	ug/L	88
83) dibromochloromethane	13.387	129	794	0.37	ug/L	88
84) 1,2-dibromoethane	13.529	107	671	0.39	ug/L #	69
86) chlorobenzene	14.001	112	2424	0.40	ug/L	89

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 3V11184.D
 Acq On : 22 May 2014 10:47 am
 Operator : thienn
 Sample : ic474-0.5
 Misc : MS65178,V3V474,5,,,,1
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 22 15:40:09 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M3V474.M
 Quant Title : SW-846 Method 8260
 QLast Update : Thu May 22 08:28:30 2014
 Response via : Initial Calibration

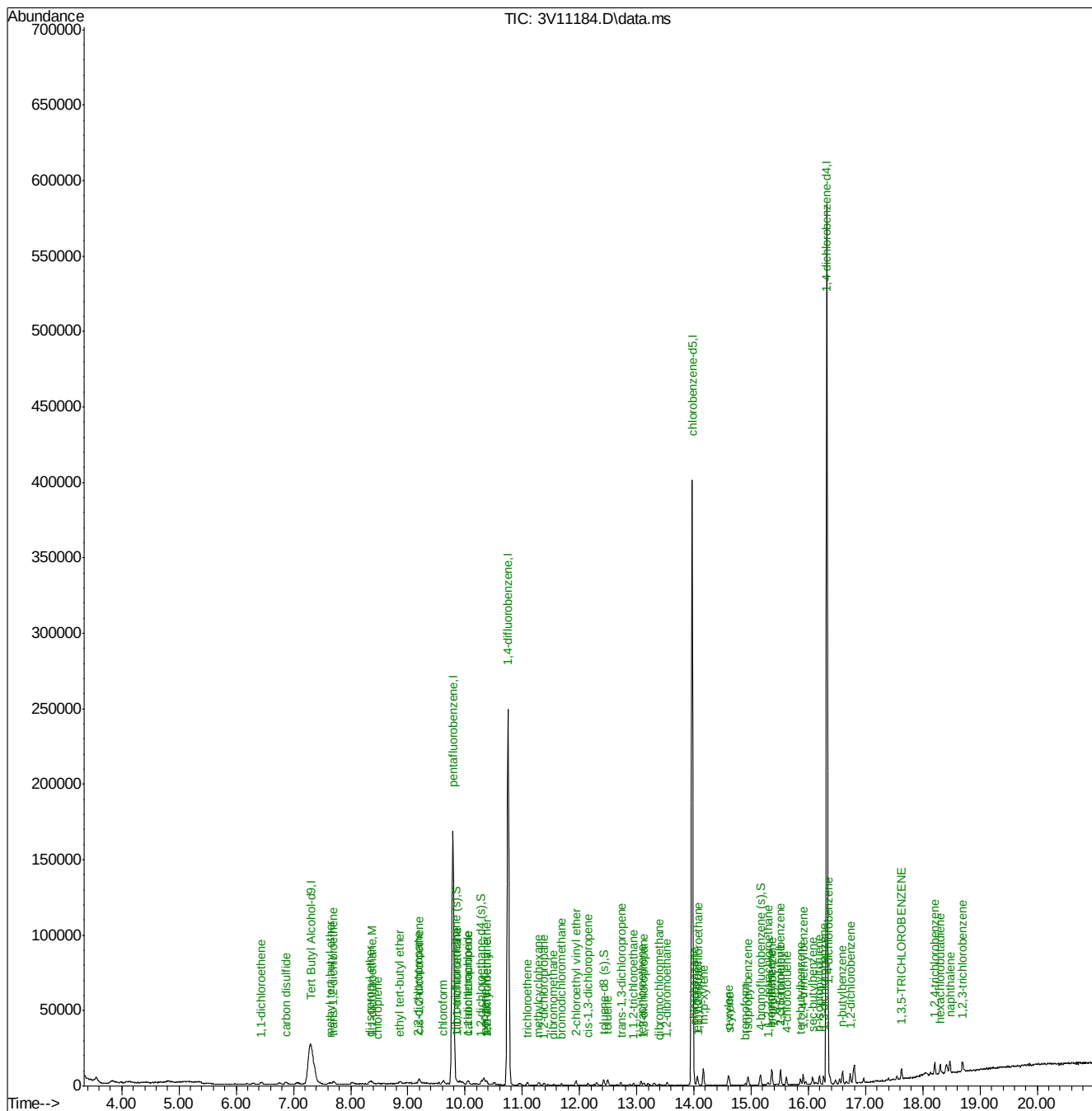
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
87)	1,1,1,2-tetrachloroethane	14.069	131	873	0.38	ug/L	100
88)	ethylbenzene	14.053	91	4400	0.44	ug/L	98
89)	m,p-xylene	14.163	106	3412	0.86	ug/L	97
90)	o-xylene	14.599	106	1411	0.33	ug/L	91
91)	styrene	14.614	104	2271	0.38	ug/L	98
92)	bromoform	14.903	173	673	0.43	ug/L	89
94)	isopropylbenzene	14.945	105	4401	0.40	ug/L	92
96)	bromobenzene	15.354	156	1137	0.39	ug/L	90
98)	1,1,2,2-tetrachloroethane	15.291	83	1166	0.42	ug/L	87
101)	n-propylbenzene	15.364	91	5462	0.40	ug/L	88
102)	2-chlorotoluene	15.511	126	1020	0.36	ug/L #	81
103)	4-chlorotoluene	15.616	91	3469	0.43	ug/L	97
104)	1,3,5-trimethylbenzene	15.516	105	3515	0.34	ug/L	95
105)	tert-butylbenzene	15.862	119	2549	0.36	ug/L	92
107)	1,2,4-trimethylbenzene	15.909	105	4446	0.34	ug/L	94
108)	sec-butylbenzene	16.072	105	4685	0.37	ug/L	95
109)	1,3-dichlorobenzene	16.266	146	2853	0.45	ug/L	95
110)	p-isopropyltoluene	16.192	119	3847	0.36	ug/L	98
111)	1,4-dichlorobenzene	16.350	146	2871	0.44	ug/L	92
112)	1,2-dichlorobenzene	16.733	146	2627	0.42	ug/L	94
113)	n-butylbenzene	16.596	92	2402	0.39	ug/L	95
115)	1,3,5-TRICHLORO BENZENE	17.629	180	2733	0.45	ug/L	97
116)	1,2,4-trichlorobenzene	18.211	180	2690	0.46	ug/L	97
117)	hexachlorobutadiene	18.300	225	1128	0.38	ug/L	95
118)	naphthalene	18.473	128	5819	0.47	ug/L	97
119)	1,2,3-trichlorobenzene	18.693	180	2463	0.45	ug/L	88

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 3V11184.D
Acq On : 22 May 2014 10:47 am
Operator : thienn
Sample : ic474-0.5
Misc : MS65178,V3V474,5,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 22 15:40:09 2014
Quant Method : C:\MSDCHEM\1\METHODS\M3V474.M
Quant Title : SW-846 Method 8260
QLast Update : Thu May 22 08:28:30 2014
Response via : Initial Calibration



M3V474.M Thu May 29 13:14:32 2014 GCMS3V

Page: 3

7.6.14



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 3V11185.D
 Acq On : 22 May 2014 11:14 am
 Operator : thienn
 Sample : ic474-1
 Misc : MS65178,V3V474,5,,,,,1
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 29 12:50:09 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M3V474.M
 Quant Title : SW-846 Method 8260
 QLast Update : Thu May 22 08:28:30 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	7.301	65	88284	500.00	ug/L	-0.01
5) pentafluorobenzene	9.786	168	168043	50.00	ug/L	0.00
49) 1,4-difluorobenzene	10.751	114	250261	50.00	ug/L	0.00
79) chlorobenzene-d5	13.970	117	237615	50.00	ug/L	0.00
93) 1,4-dichlorobenzene-d4	16.324	152	150965	50.00	ug/L	0.00

System Monitoring Compounds						
43) dibromofluoromethane (s)	9.833	113	2001	0.90	ug/L	0.00
Spiked Amount	50.000	Range	59 - 130	Recovery	=	1.80%#
44) 1,2-dichloroethane-d4 (s)	10.284	65	1709	0.89	ug/L	0.00
Spiked Amount	50.000	Range	65 - 123	Recovery	=	1.78%#
71) toluene-d8 (s)	12.423	98	5503	0.84	ug/L	0.00
Spiked Amount	50.000	Range	80 - 124	Recovery	=	1.68%#
95) 4-bromofluorobenzene (s)	15.165	95	3035	1.00	ug/L	0.00
Spiked Amount	50.000	Range	71 - 132	Recovery	=	2.00%#

Target Compounds					Qvalue	
15) acrolein	6.289	56	580729	1751.17	ug/L	98
16) 1,1-dichloroethene	6.446	96	2094	0.89	ug/L #	79
20) iodomethane	6.750	142	3890	0.80	ug/L	95
22) carbon disulfide	6.860	76	7010	0.77	ug/L	88
26) methyl tert butyl ether	7.641	73	4428	0.77	ug/L	93
27) trans-1,2-dichloroethene	7.704	96	2330	0.93	ug/L	82
28) di-isopropyl ether	8.349	45	4709	0.80	ug/L	94
29) ethyl tert-butyl ether	8.868	59	4791	0.82	ug/L	96
31) 1,1-dichloroethane	8.365	63	2912	0.75	ug/L	94
32) chloroprene	8.475	53	1767	0.74	ug/L	79
36) 2,2-dichloropropane	9.193	77	3036	0.81	ug/L	100
37) cis-1,2-dichloroethene	9.204	96	2832	1.00	ug/L #	79
40) bromochloromethane	9.555	128	806	0.73	ug/L	86
42) chloroform	9.613	83	3642	0.88	ug/L	95
47) 1,1,1-trichloroethane	9.854	97	3061	0.82	ug/L	81
48) tert-amyl methyl ether	10.378	73	4687	0.80	ug/L	91
52) cyclohexane	9.912	84	2485	0.75	ug/L	94
53) carbon tetrachloride	10.064	117	2650	0.79	ug/L	82
54) 1,1-dichloropropene	10.048	75	2164	0.82	ug/L	93
55) hexane	8.019	57	1835	0.84	ug/L	94
57) benzene	10.336	78	6885	0.75	ug/L	96
58) heptane	10.515	57	876	0.67	ug/L	89
60) 1,2-dichloroethane	10.378	62	1760	0.77	ug/L	88
61) trichloroethene	11.091	95	1677	0.79	ug/L #	74
64) 2-chloroethyl vinyl ether	11.941	63	2689	3.82	ug/L	92
65) methyl methacrylate	11.280	41	1111	0.87	ug/L	88
66) 1,2-dichloropropane	11.374	63	1526	0.77	ug/L	91
67) methylcyclohexane	11.291	83	2537	0.75	ug/L	98
68) dibromomethane	11.542	93	858	0.71	ug/L	97
69) bromodichloromethane	11.684	83	1976	0.76	ug/L	95
70) cis-1,3-dichloropropene	12.145	75	2180	0.77	ug/L	97
73) toluene	12.496	92	3932	0.78	ug/L	94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 3V11185.D
 Acq On : 22 May 2014 11:14 am
 Operator : thienn
 Sample : ic474-1
 Misc : MS65178,V3V474,5,,,,1
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 29 12:50:09 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M3V474.M
 Quant Title : SW-846 Method 8260
 QLast Update : Thu May 22 08:28:30 2014
 Response via : Initial Calibration

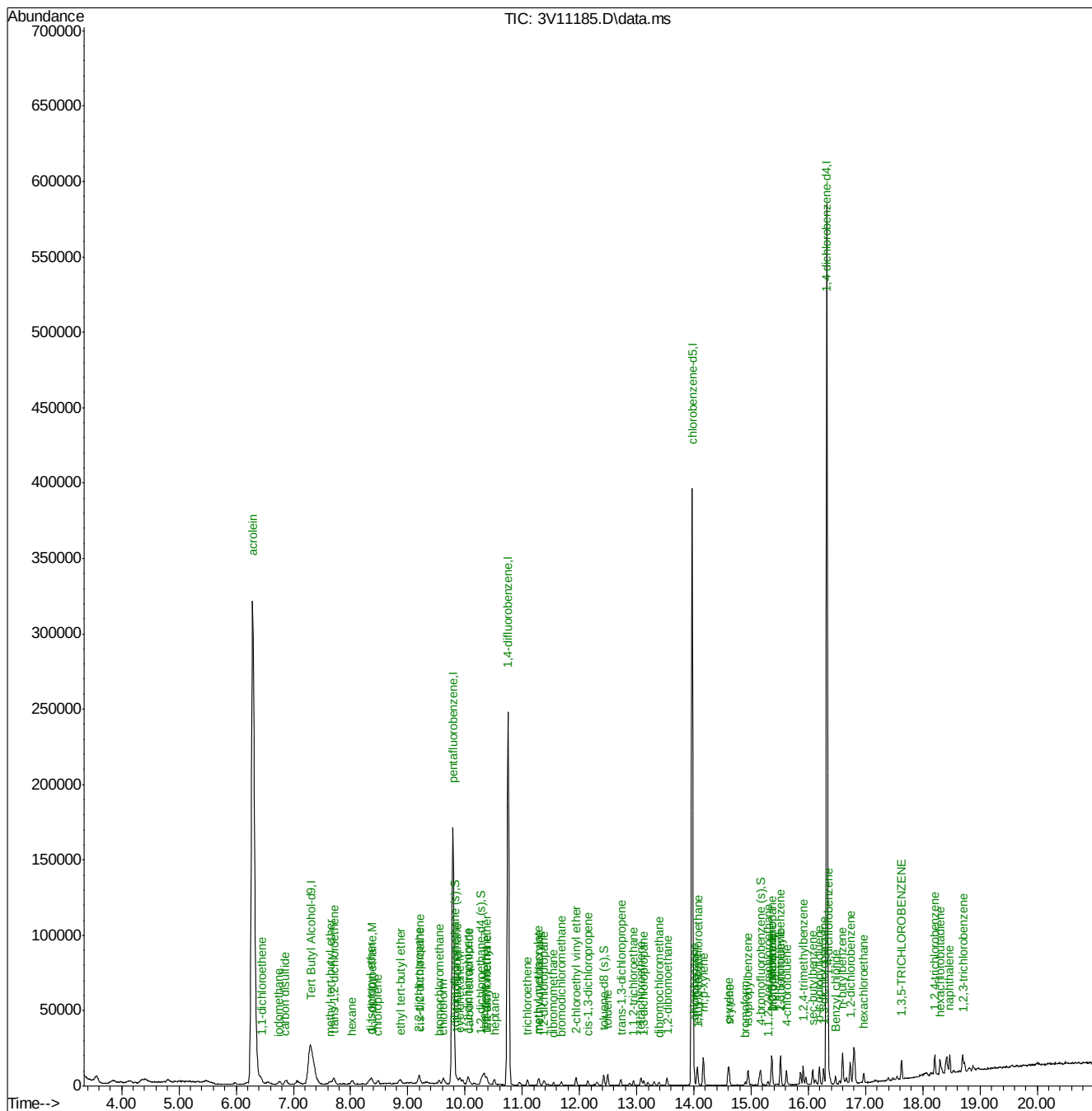
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
75) trans-1,3-dichloropropene	12.727	75	1826	0.73	ug/L	88
77) 1,1,2-trichloroethane	12.942	83	1031	0.78	ug/L	84
80) tetrachloroethene	13.078	166	1782	0.76	ug/L	97
81) 1,3-dichloropropane	13.120	76	1733	0.69	ug/L	92
83) dibromochloromethane	13.393	129	1440	0.67	ug/L	96
84) 1,2-dibromoethane	13.535	107	1272	0.73	ug/L	98
86) chlorobenzene	14.001	112	4634	0.76	ug/L	95
87) 1,1,1,2-tetrachloroethane	14.069	131	1716	0.74	ug/L	91
88) ethylbenzene	14.054	91	7939	0.80	ug/L	96
89) m,p-xylene	14.164	106	6073	1.52	ug/L	94
90) o-xylene	14.599	106	2900	0.68	ug/L	97
91) styrene	14.615	104	4251	0.71	ug/L	95
92) bromoform	14.903	173	1135	0.73	ug/L	77
94) isopropylbenzene	14.945	105	7688	0.70	ug/L	98
96) bromobenzene	15.359	156	2259	0.77	ug/L	91
98) 1,1,2,2-tetrachloroethane	15.291	83	1850	0.67	ug/L	85
100) 1,2,3-trichloropropane	15.359	110	370	0.67	ug/L	83
101) n-propylbenzene	15.364	91	9248	0.68	ug/L	99
102) 2-chlorotoluene	15.516	126	1918	0.68	ug/L	90
103) 4-chlorotoluene	15.616	91	6157	0.76	ug/L	96
104) 1,3,5-trimethylbenzene	15.516	105	6504	0.64	ug/L	99
107) 1,2,4-trimethylbenzene	15.910	105	7423	0.57	ug/L	86
108) sec-butylbenzene	16.072	105	8254	0.67	ug/L	98
109) 1,3-dichlorobenzene	16.266	146	4692	0.75	ug/L	100
110) p-isopropyltoluene	16.193	119	7186	0.68	ug/L	98
111) 1,4-dichlorobenzene	16.350	146	5030	0.79	ug/L	91
112) 1,2-dichlorobenzene	16.733	146	4806	0.77	ug/L	98
113) n-butylbenzene	16.596	92	4205	0.70	ug/L	95
115) 1,3,5-TRICHLOROBENZENE	17.629	180	4698	0.78	ug/L	94
116) 1,2,4-trichlorobenzene	18.211	180	4222	0.73	ug/L	97
117) hexachlorobutadiene	18.306	225	2184	0.74	ug/L	87
118) naphthalene	18.468	128	8671	0.71	ug/L	98
119) 1,2,3-trichlorobenzene	18.699	180	4079	0.76	ug/L	91
120) hexachloroethane	16.964	119	1703	0.79	ug/L	76
121) Benzyl chloride	16.471	91	4188	0.86	ug/L	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 3V11185.D
Acq On : 22 May 2014 11:14 am
Operator : thienn
Sample : ic474-1
Misc : MS65178,V3V474,5,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 29 12:50:09 2014
Quant Method : C:\MSDCHEM\1\METHODS\M3V474.M
Quant Title : SW-846 Method 8260
QLast Update : Thu May 22 08:28:30 2014
Response via : Initial Calibration



M3V474.M Thu May 29 13:14:34 2014 GCMS3V

Page: 3

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Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 3V11186.D
 Acq On : 22 May 2014 11:41 am
 Operator : thienn
 Sample : ic474-2
 Misc : MS65178,V3V474,5,,,,,1
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 22 15:50:57 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M3V474.M
 Quant Title : SW-846 Method 8260
 QLast Update : Thu May 22 08:28:30 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	7.316	65	81258	500.00	ug/L	0.00
5) pentafluorobenzene	9.785	168	155450	50.00	ug/L	0.00
49) 1,4-difluorobenzene	10.750	114	234535	50.00	ug/L	0.00
79) chlorobenzene-d5	13.969	117	220566	50.00	ug/L	0.00
93) 1,4-dichlorobenzene-d4	16.324	152	142306	50.00	ug/L	0.00
System Monitoring Compounds						
43) dibromofluoromethane (s)	9.833	113	3545	1.72	ug/L	0.00
Spiked Amount	50.000	Range	59 - 130	Recovery	=	3.44%#
44) 1,2-dichloroethane-d4 (s)	10.273	65	3257	1.82	ug/L	-0.01
Spiked Amount	50.000	Range	65 - 123	Recovery	=	3.64%#
71) toluene-d8 (s)	12.423	98	10482	1.71	ug/L	0.00
Spiked Amount	50.000	Range	80 - 124	Recovery	=	3.42%#
95) 4-bromofluorobenzene (s)	15.165	95	4933	1.72	ug/L	0.00
Spiked Amount	50.000	Range	71 - 132	Recovery	=	3.44%#
Target Compounds						
					Qvalue	
4) tertiary butyl alcohol	7.416	59	2128	9.23	ug/L	58
7) dichlorodifluoromethane	3.541	85	7045	1.94	ug/L	91
8) chloromethane	3.835	50	6176	1.67	ug/L	96
9) vinyl chloride	4.102	62	6178	1.65	ug/L	89
10) bromomethane	4.789	94	4658	1.92	ug/L	82
11) chloroethane	4.993	64	2112	1.72	ug/L	93
12) trichlorofluoromethane	5.518	101	6940	1.76	ug/L	96
13) ethyl ether	5.963	74	1219	1.59	ug/L	94
15) acrolein	6.283	56	293684	957.34	ug/L	99
16) 1,1-dichloroethene	6.435	96	4125	1.89	ug/L	92
20) iodomethane	6.750	142	8003	1.77	ug/L	93
22) carbon disulfide	6.865	76	14377	1.72	ug/L	97
23) methylene chloride	7.285	84	5844	2.18	ug/L	92
26) methyl tert butyl ether	7.636	73	9365	1.76	ug/L	97
27) trans-1,2-dichloroethene	7.694	96	4300	1.85	ug/L	78
28) di-isopropyl ether	8.333	45	9627	1.77	ug/L	88
29) ethyl tert-butyl ether	8.857	59	9445	1.75	ug/L	95
31) 1,1-dichloroethane	8.370	63	6320	1.75	ug/L	96
32) chloroprene	8.469	53	4032	1.82	ug/L	94
33) acrylonitrile	7.704	53	4318	8.77	ug/L	93
36) 2,2-dichloropropane	9.188	77	6693	1.93	ug/L	90
37) cis-1,2-dichloroethene	9.198	96	5096	1.95	ug/L	85
38) propionitrile	9.324	54	3828	18.21	ug/L	91
40) bromochloromethane	9.550	128	1911	1.86	ug/L	97
42) chloroform	9.618	83	6906	1.79	ug/L	97
45) freon 113	6.388	151	3133	1.81	ug/L	83
46) methacrylonitrile	9.497	41	1372	1.98	ug/L	81
47) 1,1,1-trichloroethane	9.859	97	6463	1.88	ug/L	96
48) tert-amyl methyl ether	10.373	73	9282	1.72	ug/L	92
51) n-butyl alcohol	10.949	56	4456	87.76	ug/L	97
52) cyclohexane	9.906	84	5272	1.69	ug/L	96
53) carbon tetrachloride	10.058	117	5742	1.82	ug/L	95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 3V11186.D
 Acq On : 22 May 2014 11:41 am
 Operator : thienn
 Sample : ic474-2
 Misc : MS65178,V3V474,5,,,,1
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 22 15:50:57 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M3V474.M
 Quant Title : SW-846 Method 8260
 QLast Update : Thu May 22 08:28:30 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) 1,1-dichloropropene	10.048	75	4485	1.80	ug/L	89
55) hexane	8.019	57	3419	1.68	ug/L	90
56) ISOCTANE	10.299	57	10441	1.58	ug/L #	92
57) benzene	10.331	78	13751	1.60	ug/L	99
58) heptane	10.504	57	2078	1.69	ug/L	94
59) isopropyl acetate	10.299	43	6254	1.84	ug/L #	88
60) 1,2-dichloroethane	10.378	62	3701	1.73	ug/L	95
61) trichloroethene	11.091	95	3417	1.71	ug/L	92
64) 2-chloroethyl vinyl ether	11.935	63	5886	8.92	ug/L	98
65) methyl methacrylate	11.285	41	2175	1.81	ug/L	96
66) 1,2-dichloropropane	11.374	63	3255	1.74	ug/L	98
67) methylcyclohexane	11.290	83	5591	1.76	ug/L	87
68) dibromomethane	11.542	93	2001	1.77	ug/L	94
69) bromodichloromethane	11.683	83	4125	1.70	ug/L	96
70) cis-1,3-dichloropropene	12.145	75	4722	1.77	ug/L	99
72) 4-methyl-2-pentanone	12.250	58	943	1.80	ug/L #	78
73) toluene	12.491	92	7927	1.68	ug/L	99
74) 3-methyl-1-butanol	12.307	70	1477	34.07	ug/L	92
75) trans-1,3-dichloropropene	12.722	75	4056	1.73	ug/L	93
76) ethyl methacrylate	12.706	69	2751	1.70	ug/L	95
77) 1,1,2-trichloroethane	12.942	83	2317	1.87	ug/L	94
80) tetrachloroethene	13.078	166	3999	1.84	ug/L	92
81) 1,3-dichloropropane	13.120	76	4043	1.74	ug/L	98
82) butyl acetate	13.188	56	1513	1.80	ug/L #	77
83) dibromochloromethane	13.382	129	3589	1.80	ug/L	88
84) 1,2-dibromoethane	13.534	107	2700	1.68	ug/L	92
86) chlorobenzene	14.001	112	9499	1.68	ug/L	94
87) 1,1,1,2-tetrachloroethane	14.069	131	3806	1.78	ug/L	99
88) ethylbenzene	14.053	91	16151	1.74	ug/L	95
89) m,p-xylene	14.163	106	12008	3.23	ug/L	98
90) o-xylene	14.599	106	6194	1.56	ug/L	89
91) styrene	14.614	104	9199	1.66	ug/L	98
92) bromoform	14.897	173	2583	1.78	ug/L	99
94) isopropylbenzene	14.950	105	16440	1.59	ug/L	99
96) bromobenzene	15.359	156	5117	1.86	ug/L	88
97) cyclohexanone	15.149	55	7731	20.92	ug/L	97
98) 1,1,2,2-tetrachloroethane	15.291	83	4859	1.88	ug/L	98
100) 1,2,3-trichloropropane	15.364	110	1045	1.99	ug/L	82
101) n-propylbenzene	15.364	91	20393	1.58	ug/L	99
102) 2-chlorotoluene	15.516	126	4390	1.66	ug/L	91
103) 4-chlorotoluene	15.616	91	12842	1.69	ug/L	96
104) 1,3,5-trimethylbenzene	15.516	105	13877	1.46	ug/L	97
105) tert-butylbenzene	15.862	119	10521	1.59	ug/L	96
106) pentachloroethane	15.951	167	2782	1.62	ug/L	96
107) 1,2,4-trimethylbenzene	15.909	105	15098	1.23	ug/L	89
108) sec-butylbenzene	16.077	105	18601	1.60	ug/L	99
109) 1,3-dichlorobenzene	16.266	146	10210	1.74	ug/L	95
110) p-isopropyltoluene	16.192	119	15924	1.60	ug/L	98
111) 1,4-dichlorobenzene	16.350	146	10412	1.73	ug/L	93
112) 1,2-dichlorobenzene	16.733	146	10125	1.73	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 3V11186.D
Acq On : 22 May 2014 11:41 am
Operator : thienn
Sample : ic474-2
Misc : MS65178,V3V474,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 22 15:50:57 2014
Quant Method : C:\MSDCHEM\1\METHODS\M3V474.M
Quant Title : SW-846 Method 8260
QLast Update : Thu May 22 08:28:30 2014
Response via : Initial Calibration

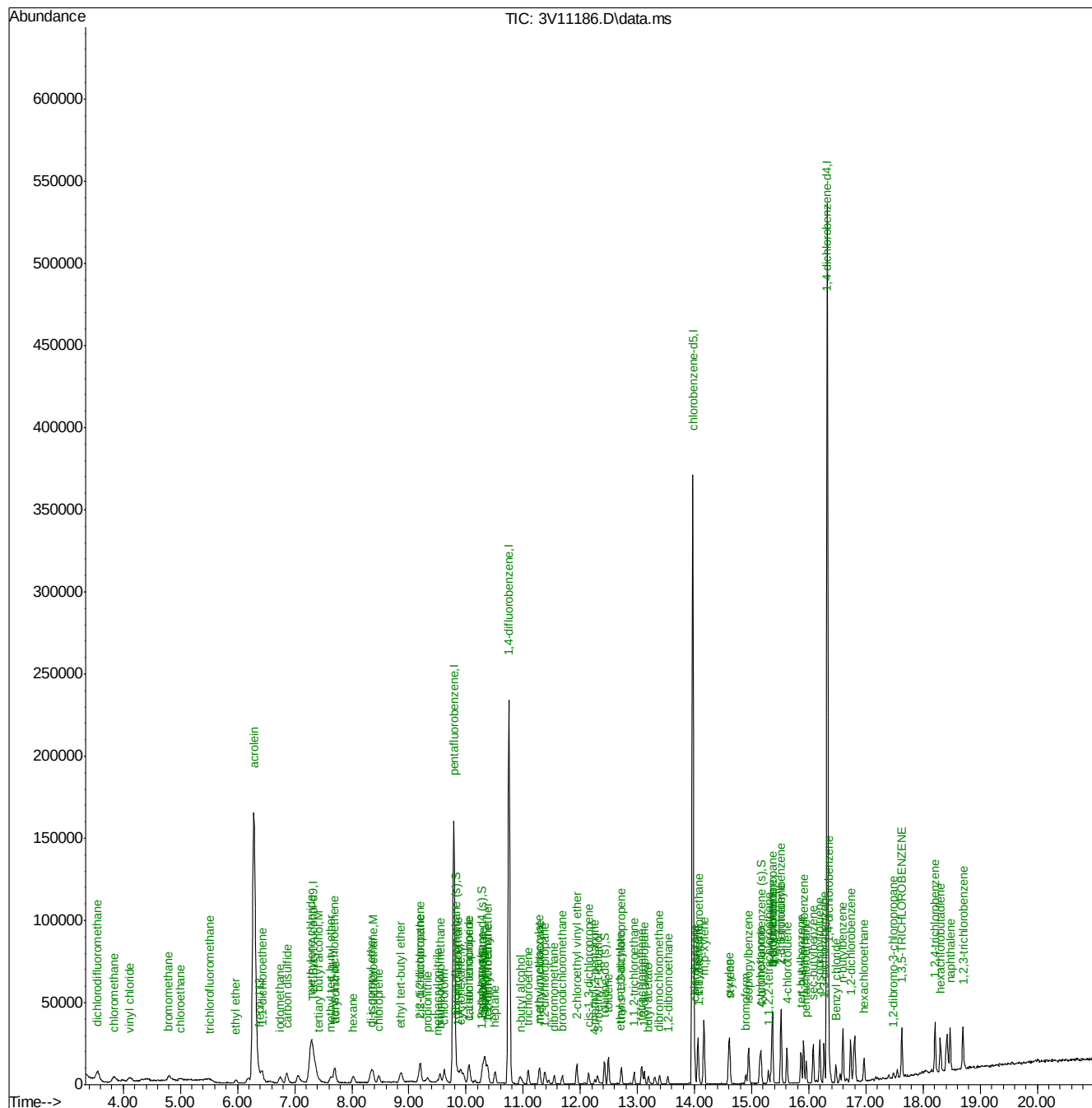
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
113) n-butylbenzene	16.596	92	9589	1.68	ug/L	99
114) 1,2-dibromo-3-chloropr...	17.482	75	1146	2.18	ug/L	95
115) 1,3,5-TRICHLOROBENZENE	17.629	180	9981	1.75	ug/L	98
116) 1,2,4-trichlorobenzene	18.211	180	9654	1.77	ug/L	97
117) hexachlorobutadiene	18.300	225	4857	1.75	ug/L	94
118) naphthalene	18.473	128	19090	1.65	ug/L	98
119) 1,2,3-trichlorobenzene	18.699	180	8870	1.74	ug/L	90
120) hexachloroethane	16.968	119	3585	1.75	ug/L	83
121) Benzyl chloride	16.476	91	8728	1.90	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 3V11186.D
Acq On : 22 May 2014 11:41 am
Operator : thienn
Sample : ic474-2
Misc : MS65178,V3V474,5,,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 22 15:50:57 2014
Quant Method : C:\MSDCHEM\1\METHODS\M3V474.M
Quant Title : SW-846 Method 8260
QLast Update : Thu May 22 08:28:30 2014
Response via : Initial Calibration



M3V474.M Thu May 29 13:14:36 2014 GCMS3V

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7.6.16

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 3V11187.D
 Acq On : 22 May 2014 12:08 pm
 Operator : thienn
 Sample : ic474-5
 Misc : MS65178,V3V474,5,,,,,1
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 23 14:27:15 2014
 Quant Method : C:\msdchem\1\METHODS\M3V474.M
 Quant Title : SW-846 Method 8260
 QLast Update : Thu May 22 15:51:28 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Tert Butyl Alcohol-d9	7.301	65	88650	500.00	ug/L	0.00
5) pentafluorobenzene	9.786	168	152136	50.00	ug/L	0.00
49) 1,4-difluorobenzene	10.751	114	230267	50.00	ug/L	0.00
79) chlorobenzene-d5	13.970	117	221836	50.00	ug/L	0.00
93) 1,4-dichlorobenzene-d4	16.324	152	144075	50.00	ug/L	0.00
System Monitoring Compounds						
43) dibromofluoromethane (s)	9.838	113	8894	4.51	ug/L	0.00
Spiked Amount 50.000	Range 59 - 130		Recovery =	9.02%#		
44) 1,2-dichloroethane-d4 (s)	10.279	65	7760	4.49	ug/L	0.00
Spiked Amount 50.000	Range 65 - 123		Recovery =	8.98%#		
71) toluene-d8 (s)	12.423	98	26541	4.65	ug/L	0.00
Spiked Amount 50.000	Range 80 - 124		Recovery =	9.30%#		
95) 4-bromofluorobenzene (s)	15.165	95	11917	4.54	ug/L	0.00
Spiked Amount 50.000	Range 71 - 132		Recovery =	9.08%#		
Target Compounds						Qvalue
2) 1,4-dioxane	11.516	88	2556m	108.29	ug/L	
4) tertiary butyl alcohol	7.442	59	5952m	25.22	ug/L	
6) chlorodifluoromethane	3.552	51	25265	8.43	ug/L	94
7) dichlorodifluoromethane	3.547	85	19846	5.19	ug/L	99
8) chloromethane	3.835	50	15556	4.73	ug/L	95
9) vinyl chloride	4.123	62	17175	4.96	ug/L	98
10) bromomethane	4.789	94	12301	5.25	ug/L	87
11) chloroethane	5.004	64	6192	5.38	ug/L	96
12) trichlorofluoromethane	5.513	101	19833	5.21	ug/L	88
13) ethyl ether	5.964	74	3746	5.47	ug/L	82
14) 2-chloropropane	6.184	43	14363	5.17	ug/L	98
15) acrolein	6.289	56	19037	69.00	ug/L	97
16) 1,1-dichloroethene	6.436	96	10164	4.95	ug/L	98
17) acetone	6.551	43	3085	6.69	ug/L	97
18) allyl chloride	7.059	76	4525	6.39	ug/L	97
19) acetonitrile	7.070	40	7035	54.54	ug/L	93
20) iodomethane	6.745	142	21448	5.39	ug/L	97
21) iso-butyl alcohol	10.153	41	2953	54.31	ug/L	89
22) carbon disulfide	6.860	76	38326	5.36	ug/L	98
23) methylene chloride	7.285	84	12580	3.91	ug/L	94
24) 1-chloropropane	7.306	42	21524	7.54	ug/L #	88
25) methyl acetate	7.075	74	979m	4.53	ug/L	
26) methyl tert butyl ether	7.636	73	25139	5.53	ug/L	98
27) trans-1,2-dichloroethene	7.699	96	10873	4.93	ug/L	96
28) di-isopropyl ether	8.339	45	26984	5.59	ug/L	96
29) ethyl tert-butyl ether	8.858	59	26368	5.56	ug/L	98
30) 2-butanone	9.183	72	634m	3.79	ug/L	
31) 1,1-dichloroethane	8.365	63	17674	5.86	ug/L	99
32) chloroprene	8.475	53	11063	5.99	ug/L	95
33) acrylonitrile	7.704	53	12189	26.72	ug/L	94
34) vinyl acetate	8.370	86	748	3.75	ug/L #	55
35) ethyl acetate	9.204	45	776	4.77	ug/L	42

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 3V11187.D
 Acq On : 22 May 2014 12:08 pm
 Operator : thienn
 Sample : ic474-5
 Misc : MS65178,V3V474,5,,,,1
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 23 14:27:15 2014
 Quant Method : C:\msdchem\1\METHODS\M3V474.M
 Quant Title : SW-846 Method 8260
 QLast Update : Thu May 22 15:51:28 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
36) 2,2-dichloropropane	9.183	77	17362	5.51	ug/L	97
37) cis-1,2-dichloroethene	9.204	96	11916	4.46	ug/L	89
38) propionitrile	9.324	54	10917	61.47	ug/L	90
39) methyl acrylate	9.293	55	6908	5.04	ug/L #	94
40) bromochloromethane	9.545	128	5233	5.74	ug/L	94
41) tetrahydrofuran	9.581	42	2137	4.85	ug/L	97
42) chloroform	9.618	83	18047	5.03	ug/L	99
45) freon 113	6.415	151	9347	6.18	ug/L	98
46) methacrylonitrile	9.503	41	3476	5.10	ug/L	91
47) 1,1,1-trichloroethane	9.854	97	16919	5.38	ug/L	96
48) tert-amyl methyl ether	10.368	73	26309	5.42	ug/L	95
50) epichlorohydrin	12.067	57	3246	30.54	ug/L	89
51) n-butyl alcohol	10.945	56	12504	258.67	ug/L	96
52) cyclohexane	9.906	84	15594	5.79	ug/L	98
53) carbon tetrachloride	10.064	117	15657	5.60	ug/L	99
54) 1,1-dichloropropene	10.048	75	12008	5.41	ug/L	96
55) hexane	8.019	57	9859	5.54	ug/L	94
56) ISOCTANE	10.305	57	31602	5.56	ug/L	98
57) benzene	10.331	78	36754	5.32	ug/L	98
58) heptane	10.504	57	6117	5.97	ug/L	97
59) isopropyl acetate	10.300	43	16946	5.20	ug/L	99
60) 1,2-dichloroethane	10.378	62	10533	5.68	ug/L	100
61) trichloroethene	11.091	95	9598	5.53	ug/L	97
63) 2-nitropropane	11.935	43	11857	4.94	ug/L	98
64) 2-chloroethyl vinyl ether	11.935	63	17241	29.08	ug/L	98
65) methyl methacrylate	11.285	41	6239	5.60	ug/L	99
66) 1,2-dichloropropane	11.374	63	8908	5.56	ug/L	97
67) methylcyclohexane	11.291	83	15477	6.26	ug/L	95
68) dibromomethane	11.542	93	5594	6.03	ug/L	97
69) bromodichloromethane	11.684	83	11546	5.48	ug/L	99
70) cis-1,3-dichloropropene	12.145	75	12758	5.48	ug/L	97
72) 4-methyl-2-pentanone	12.250	58	2533	5.06	ug/L	88
73) toluene	12.491	92	20100	4.81	ug/L	99
74) 3-methyl-1-butanol	12.297	70	4303	103.18	ug/L	96
75) trans-1,3-dichloropropene	12.727	75	11315	5.80	ug/L	92
76) ethyl methacrylate	12.711	69	7672	5.60	ug/L	97
77) 1,1,2-trichloroethane	12.942	83	6248	5.84	ug/L	97
78) 2-hexanone	13.120	58	2250	4.77	ug/L	97
80) tetrachloroethene	13.078	166	10474	5.51	ug/L	100
81) 1,3-dichloropropane	13.120	76	10821	5.70	ug/L	99
82) butyl acetate	13.189	56	4187	5.71	ug/L	93
83) dibromochloromethane	13.388	129	9328	5.59	ug/L	98
84) 1,2-dibromoethane	13.535	107	7607	5.63	ug/L	98
86) chlorobenzene	14.001	112	25505	5.41	ug/L	95
87) 1,1,1,2-tetrachloroethane	14.069	131	10136	5.48	ug/L	95
88) ethylbenzene	14.054	91	42979	5.07	ug/L	97
89) m,p-xylene	14.164	106	32813	9.69	ug/L	96
90) o-xylene	14.599	106	16729	5.46	ug/L	98
91) styrene	14.615	104	25315	5.49	ug/L	97
92) bromoform	14.898	173	7120	5.58	ug/L	87

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 3V11187.D
Acq On : 22 May 2014 12:08 pm
Operator : thienn
Sample : ic474-5
Misc : MS65178,V3V474,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 23 14:27:15 2014
Quant Method : C:\msdchem\1\METHODS\M3V474.M
Quant Title : SW-846 Method 8260
QLast Update : Thu May 22 15:51:28 2014
Response via : Initial Calibration

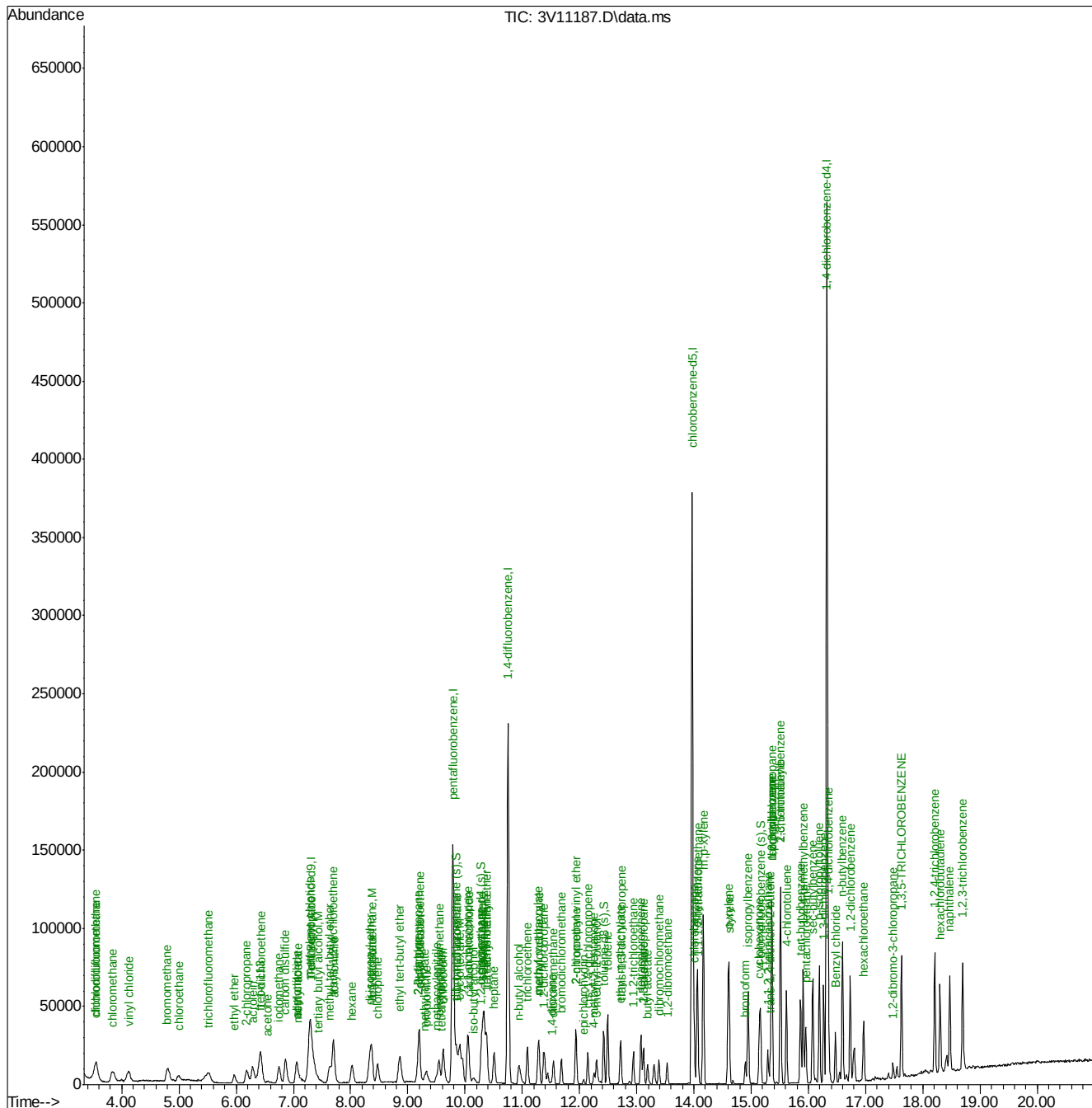
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94)	isopropylbenzene	14.945	105	43020	5.08	ug/L	97
96)	bromobenzene	15.359	156	12846	5.40	ug/L	97
97)	cyclohexanone	15.144	55	16268	53.02	ug/L	99
98)	1,1,2,2-tetrachloroethane	15.291	83	11850	5.35	ug/L	100
99)	trans-1,4-dichloro-2-b...	15.333	53	2420	4.66	ug/L	95
100)	1,2,3-trichloropropane	15.364	110	2666	5.70	ug/L	91
101)	n-propylbenzene	15.364	91	54902	5.32	ug/L	99
102)	2-chlorotoluene	15.516	126	12283	5.74	ug/L	98
103)	4-chlorotoluene	15.616	91	34176	5.26	ug/L	99
104)	1,3,5-trimethylbenzene	15.516	105	38831	5.44	ug/L	99
105)	tert-butylbenzene	15.863	119	29155	5.37	ug/L	96
106)	pentachloroethane	15.957	167	7454	4.66	ug/L	94
107)	1,2,4-trimethylbenzene	15.910	105	40923	5.14	ug/L	93
108)	sec-butylbenzene	16.077	105	51756	5.46	ug/L	98
109)	1,3-dichlorobenzene	16.266	146	27046	5.28	ug/L	97
110)	p-isopropyltoluene	16.193	119	44733	5.56	ug/L	99
111)	1,4-dichlorobenzene	16.350	146	26890	5.13	ug/L	99
112)	1,2-dichlorobenzene	16.733	146	26860	5.37	ug/L	97
113)	n-butylbenzene	16.597	92	25801	5.47	ug/L	99
114)	1,2-dibromo-3-chloropr...	17.483	75	2733	5.07	ug/L	92
115)	1,3,5-TRICHLOROBENZENE	17.629	180	25815	5.11	ug/L	99
116)	1,2,4-trichlorobenzene	18.211	180	23950	5.00	ug/L	97
117)	hexachlorobutadiene	18.301	225	12827	5.43	ug/L	97
118)	naphthalene	18.468	128	47207	4.86	ug/L	99
119)	1,2,3-trichlorobenzene	18.694	180	22239	4.98	ug/L	95
120)	hexachloroethane	16.969	119	8719	4.79	ug/L	94
121)	Benzyl chloride	16.471	91	23420	5.34	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 3V11187.D
Acq On : 22 May 2014 12:08 pm
Operator : thienn
Sample : ic474-5
Misc : MS65178,V3V474,5,,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 23 14:27:15 2014
Quant Method : C:\msdchem\1\METHODS\M3V474.M
Quant Title : SW-846 Method 8260
QLast Update : Thu May 22 15:51:28 2014
Response via : Initial Calibration



Manual Integration Approval Summary

Page 1 of 1

Sample Number: V3V474-IC474

Method: SW846 8260C

Lab FileID: 3V11187.D

Analyst approved: 05/23/14 14:36 Dipa Patel

Injection Time: 05/22/14 12:08

Supervisor approved: 05/29/14 17:49 Jessica Reitan-Chu

Parameter	CAS	Sig#	R.T. (min.)	Reason
Methyl Acetate	79-20-9		7.08	Poor instrument integration
Tert Butyl Alcohol	75-65-0		7.44	Poor instrument integration
2-Butanone (MEK)	78-93-3		9.18	Missed peak
1,4-Dioxane	123-91-1		11.52	Poor instrument integration

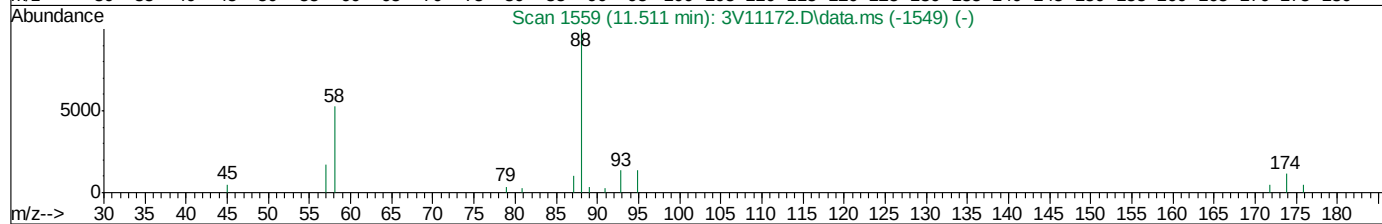
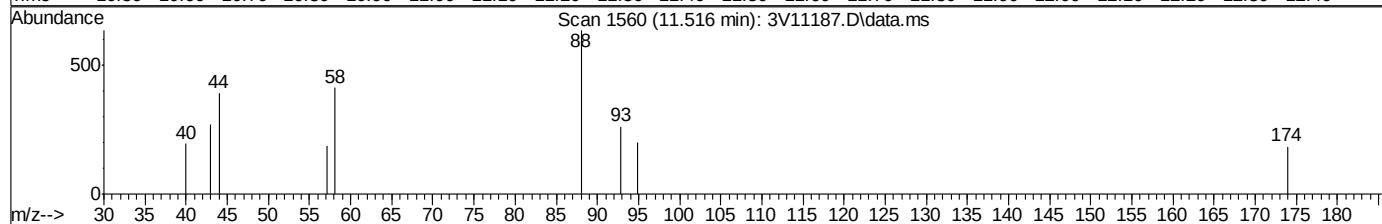
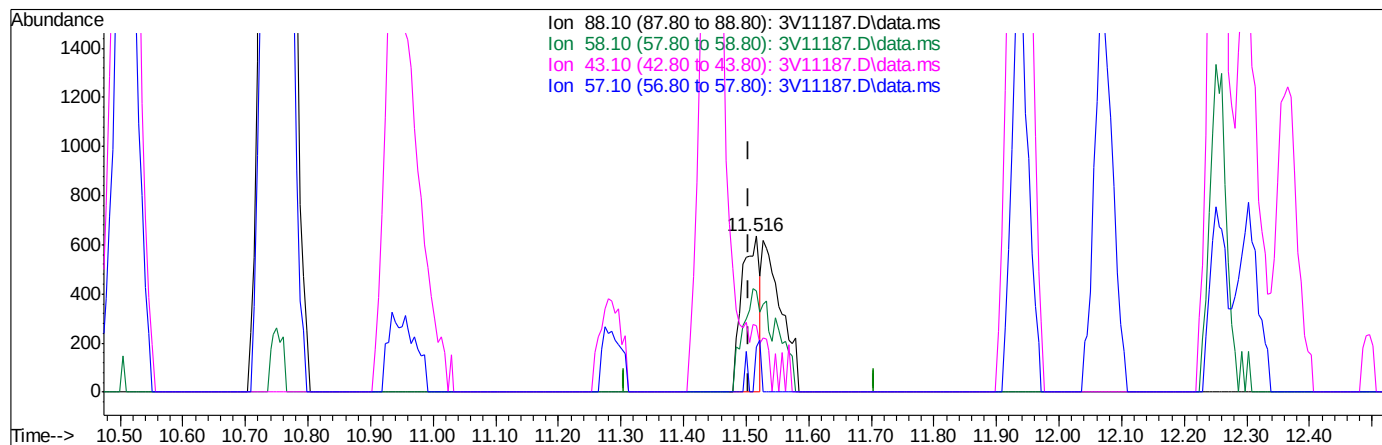
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7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 3V11187.D
Acq On : 22 May 2014 12:08 pm
Operator : thienn
Sample : ic474-5
Misc : MS65178,V3V474,5,,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 22 15:51:51 2014
Quant Method : C:\msdchem\1\METHODS\M3V474.M
Quant Title : SW-846 Method 8260
QLast Update : Thu May 22 15:51:28 2014
Response via : Initial Calibration



TIC: 3V11187.D\data.ms

(2) 1,4-dioxane

11.516min (+0.011) 51.05ug/L

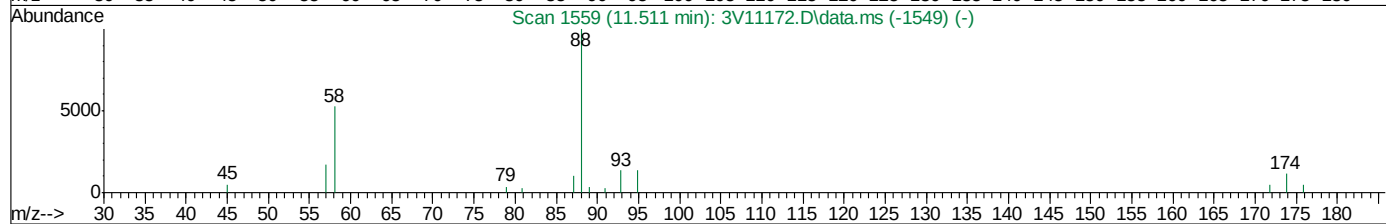
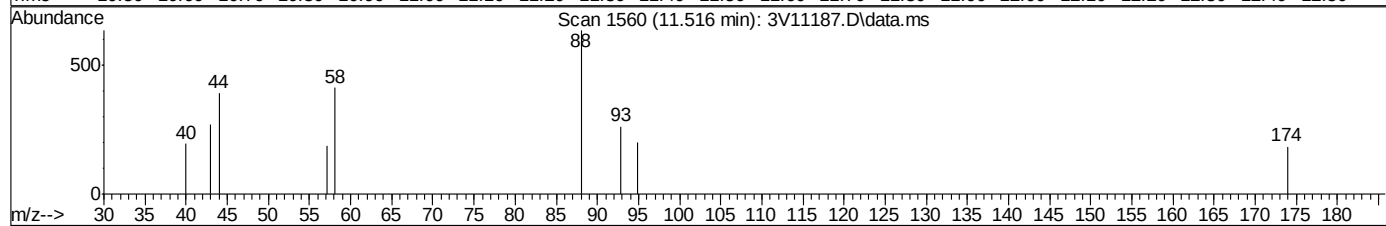
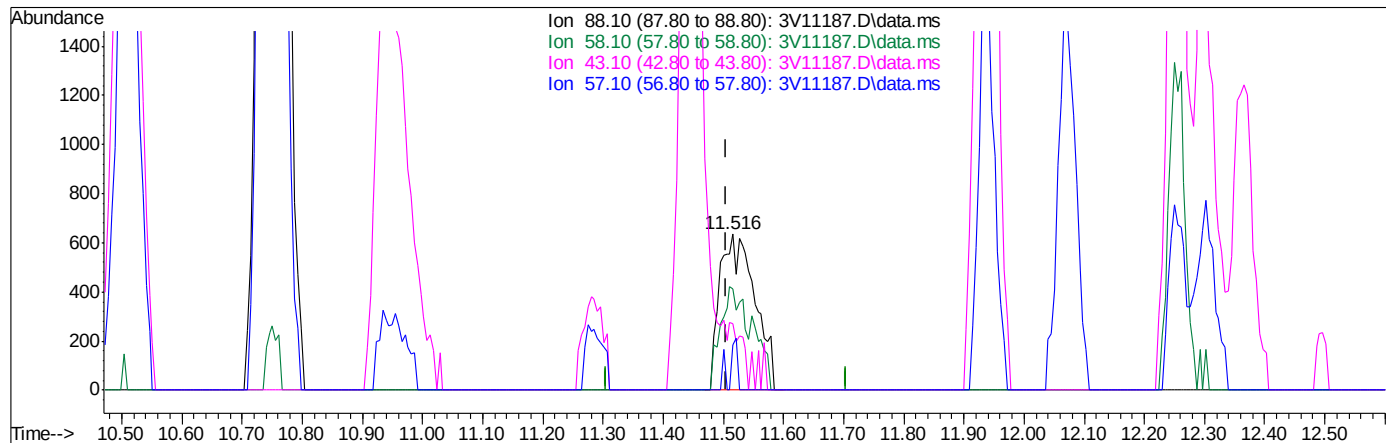
response 1205

Ion	Exp%	Act%
88.10	100	100
58.10	60.40	94.19#
43.10	0.00	0.00
57.10	22.70	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 3V11187.D
Acq On : 22 May 2014 12:08 pm
Operator : thienn
Sample : ic474-5
Misc : MS65178,V3V474,5,,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 22 15:51:51 2014
Quant Method : C:\msdchem\1\METHODS\M3V474.M
Quant Title : SW-846 Method 8260
QLast Update : Thu May 22 15:51:28 2014
Response via : Initial Calibration



TIC: 3V11187.D\data.ms

(2) 1,4-dioxane

11.516min (+0.011) 108.29ug/L m

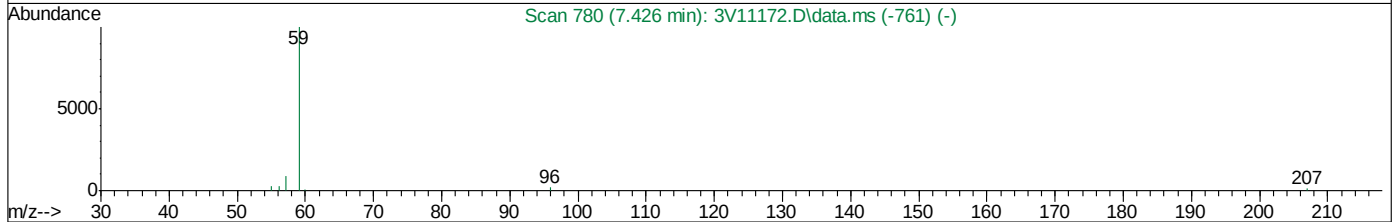
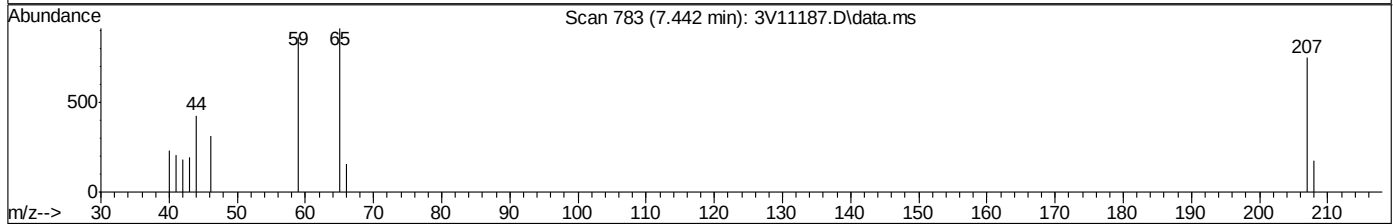
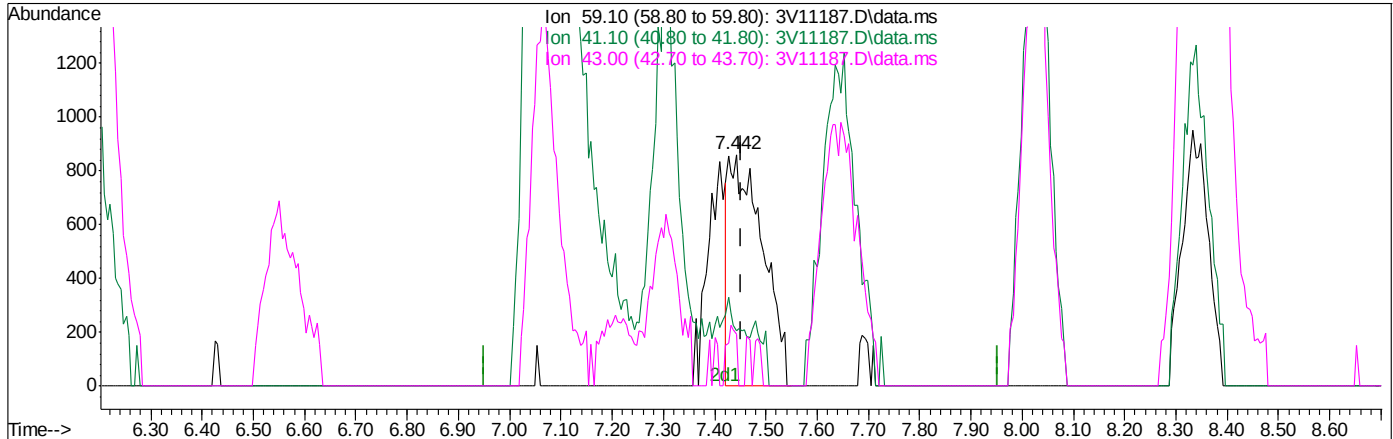
response 2556

Ion	Exp%	Act%
88.10	100	100
58.10	60.40	44.41
43.10	0.00	0.00
57.10	22.70	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 3V11187.D
Acq On : 22 May 2014 12:08 pm
Operator : thienn
Sample : ic474-5
Misc : MS65178,V3V474,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 22 15:51:51 2014
Quant Method : C:\msdchem\1\METHODS\M3V474.M
Quant Title : SW-846 Method 8260
QLast Update : Thu May 22 15:51:28 2014
Response via : Initial Calibration



TIC: 3V11187.D\data.ms

(4) tertiary butyl alcohol (M)

7.442min (-0.010) 16.81ug/L

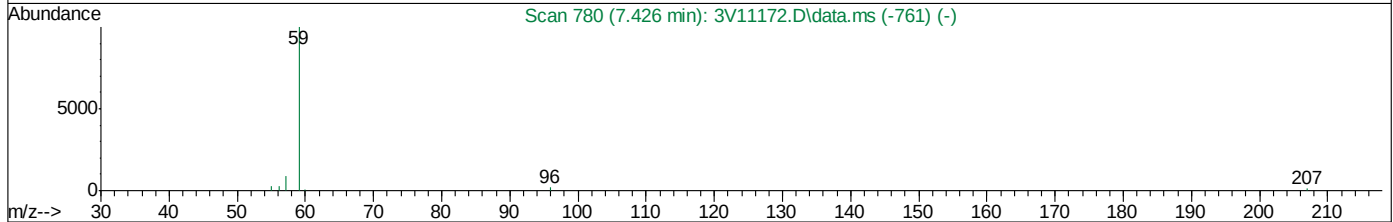
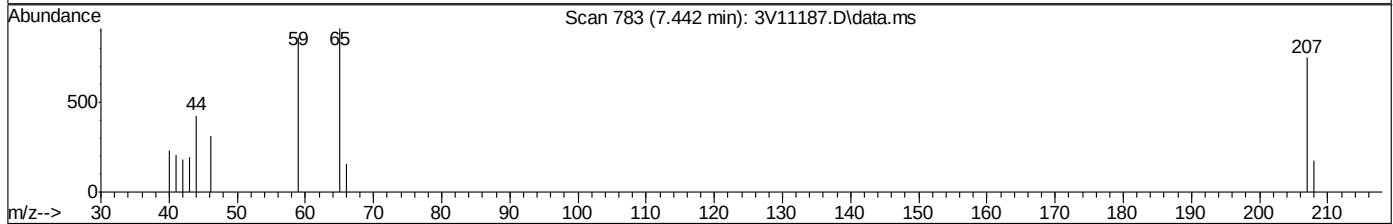
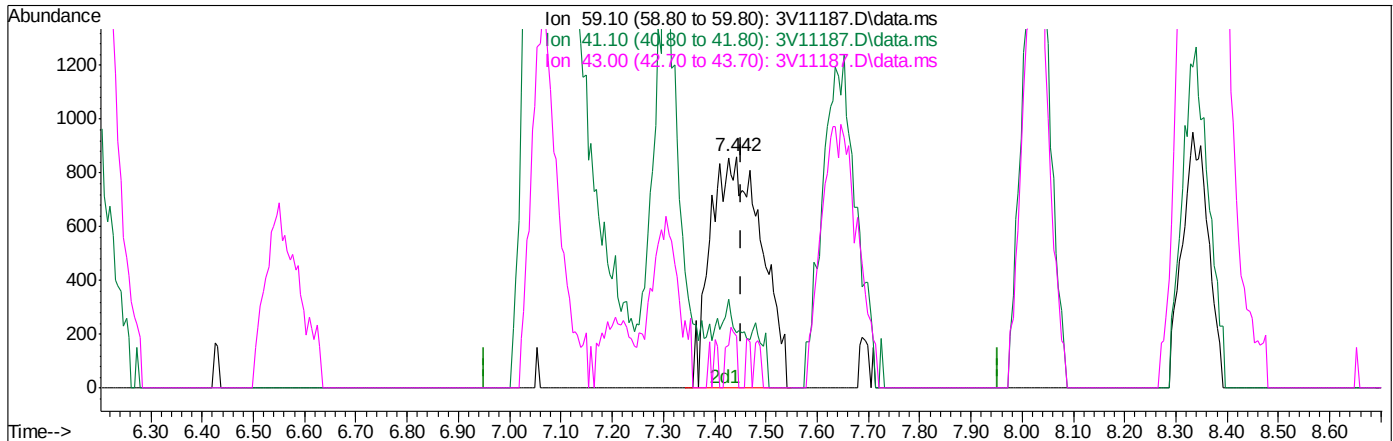
response 3968

Ion	Exp%	Act%
59.10	100	100
41.10	22.00	23.93
43.00	12.60	22.65
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 3V11187.D
Acq On : 22 May 2014 12:08 pm
Operator : thienn
Sample : ic474-5
Misc : MS65178,V3V474,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 22 15:51:51 2014
Quant Method : C:\msdchem\1\METHODS\M3V474.M
Quant Title : SW-846 Method 8260
QLast Update : Thu May 22 15:51:28 2014
Response via : Initial Calibration



TIC: 3V11187.D\data.ms

(4) tertiary butyl alcohol (M)

7.442min (-0.010) 25.22ug/L m

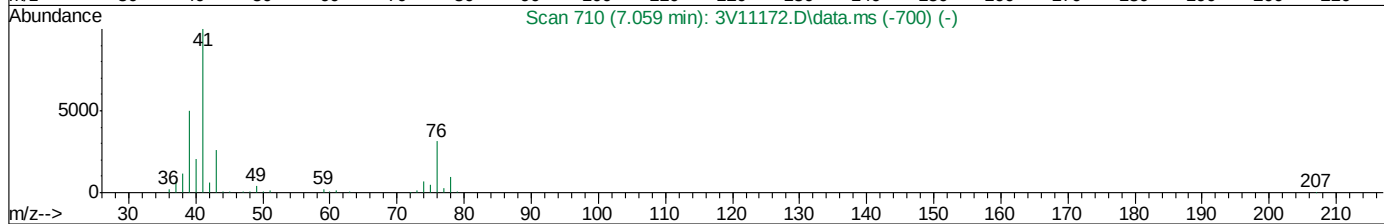
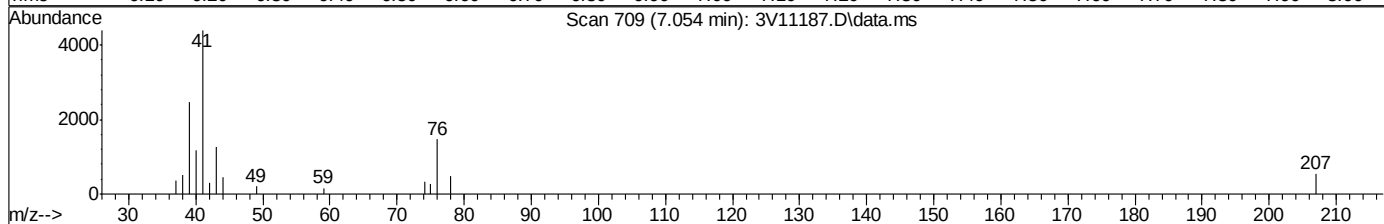
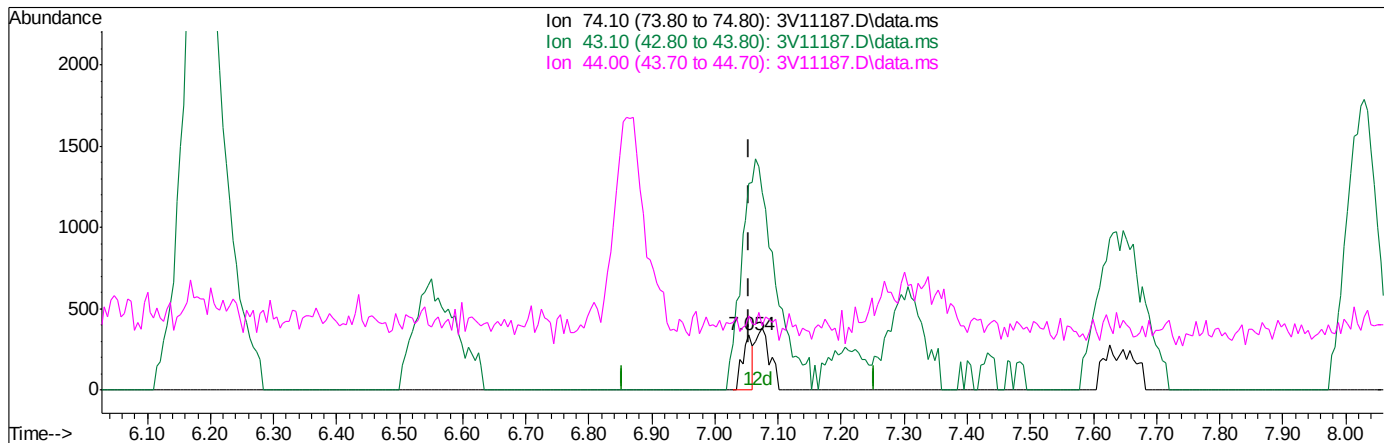
response 5952

Ion	Exp%	Act%
59.10	100	100
41.10	22.00	23.93
43.00	12.60	22.65
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 3V11187.D
Acq On : 22 May 2014 12:08 pm
Operator : thienn
Sample : ic474-5
Misc : MS65178,V3V474,5,,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 22 15:51:51 2014
Quant Method : C:\msdchem\1\METHODS\M3V474.M
Quant Title : SW-846 Method 8260
QLast Update : Thu May 22 15:51:28 2014
Response via : Initial Calibration



TIC: 3V11187.D\data.ms

(25) methyl acetate

7.054min (+0.000) 1.80ug/L

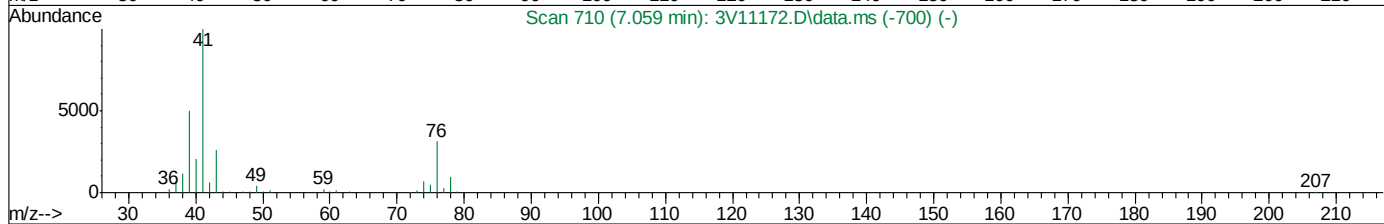
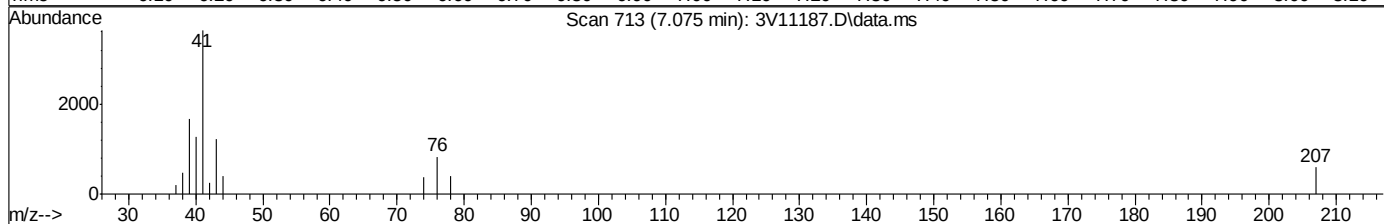
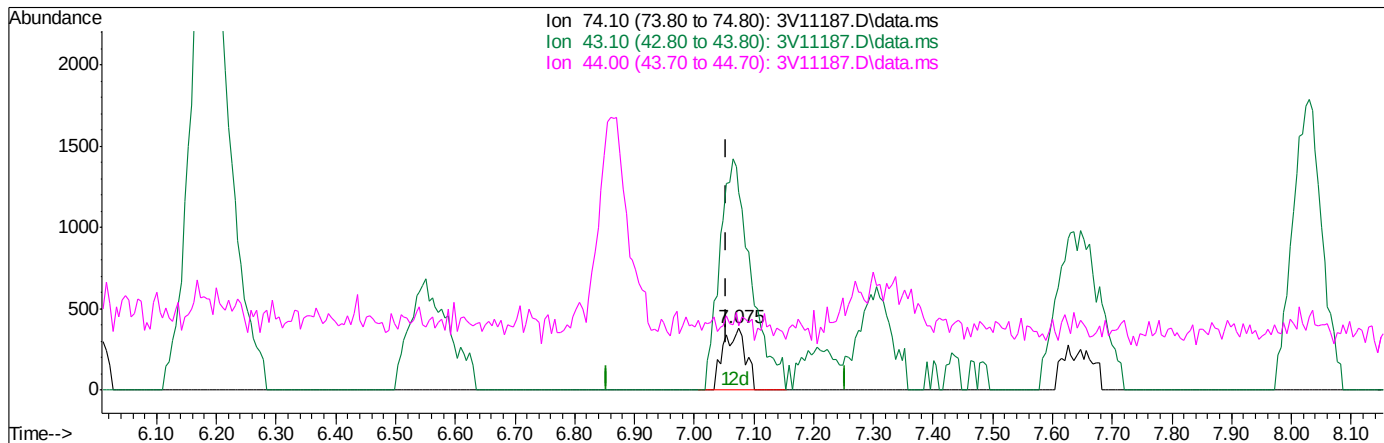
response 390

Ion	Exp%	Act%
74.10	100	100
43.10	431.60	1333.59#
44.00	11.80	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 3V11187.D
Acq On : 22 May 2014 12:08 pm
Operator : thienn
Sample : ic474-5
Misc : MS65178,V3V474,5,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 22 15:51:51 2014
Quant Method : C:\msdchem\1\METHODS\M3V474.M
Quant Title : SW-846 Method 8260
QLast Update : Thu May 22 15:51:28 2014
Response via : Initial Calibration



TIC: 3V11187.D\data.ms

(25) methyl acetate

7.075min (+0.021) 4.53ug/L m

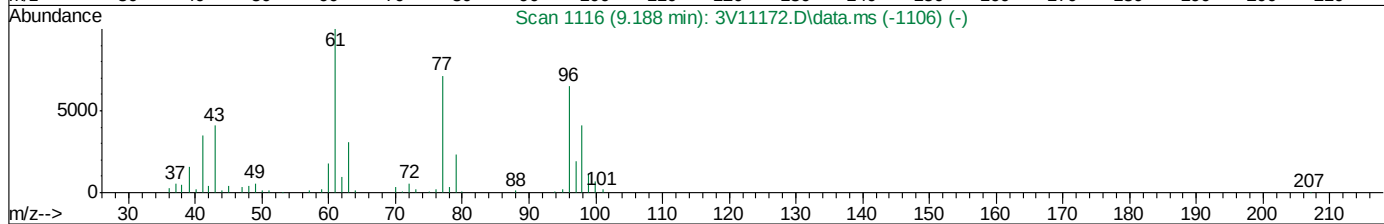
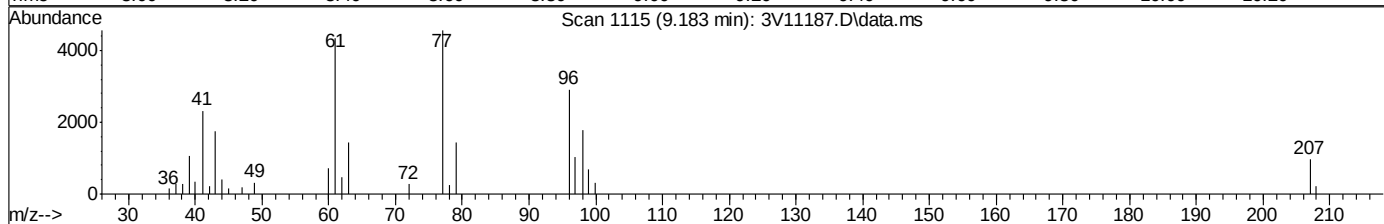
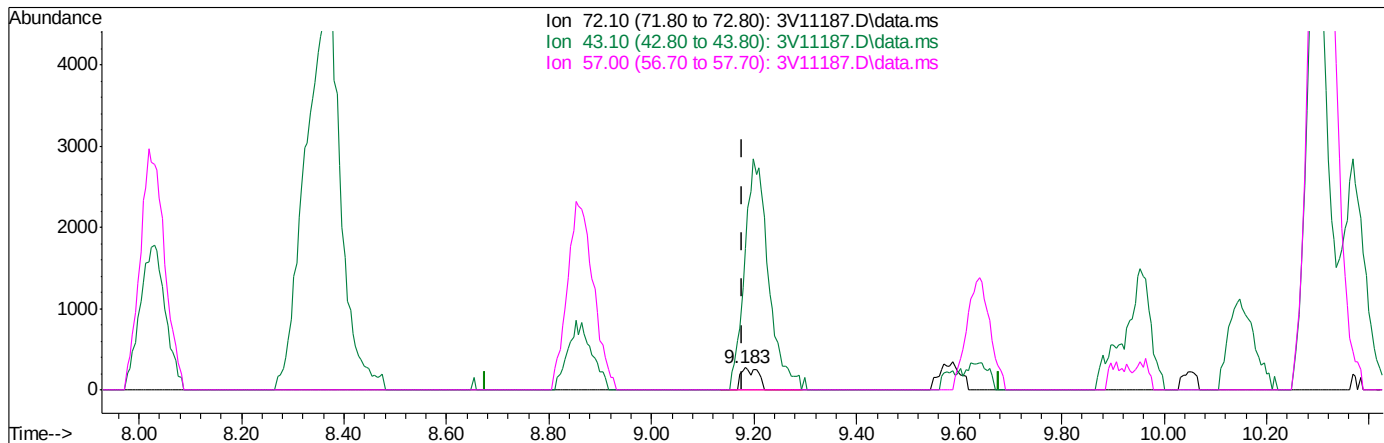
response 979

Ion	Exp%	Act%
74.10	100	100
43.10	431.60	531.26#
44.00	11.80	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 3V11187.D
Acq On : 22 May 2014 12:08 pm
Operator : thienn
Sample : ic474-5
Misc : MS65178,V3V474,5,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 23 14:27:15 2014
Quant Method : C:\msdchem\1\METHODS\M3V474.M
Quant Title : SW-846 Method 8260
QLast Update : Thu May 22 15:51:28 2014
Response via : Initial Calibration



TIC: 3V11187.D\data.ms

(30) 2-butanone

9.183min (+0.005) 3.79ug/L m

response 634

Ion	Exp%	Act%

72.10	100	100

43.10	1007.00	0.00#

57.00	25.00	0.00#

0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 3V11188.D
 Acq On : 22 May 2014 12:34 pm
 Operator : thienn
 Sample : ic474-10
 Misc : MS65178,V3V474,5,,,,,1
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 22 15:55:02 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M3V474.M
 Quant Title : SW-846 Method 8260
 QLast Update : Thu May 22 08:28:30 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	7.322	65	87172	500.00	ug/L	0.01
5) pentafluorobenzene	9.786	168	155895	50.00	ug/L	0.00
49) 1,4-difluorobenzene	10.751	114	237131	50.00	ug/L	0.00
79) chlorobenzene-d5	13.970	117	225258	50.00	ug/L	0.00
93) 1,4-dichlorobenzene-d4	16.324	152	148116	50.00	ug/L	0.00
System Monitoring Compounds						
43) dibromofluoromethane (s)	9.833	113	19404	9.41	ug/L	0.00
Spiked Amount	50.000	Range	59 - 130	Recovery	=	18.82%#
44) 1,2-dichloroethane-d4 (s)	10.279	65	17155	9.58	ug/L	0.00
Spiked Amount	50.000	Range	65 - 123	Recovery	=	19.16%#
71) toluene-d8 (s)	12.423	98	60116	9.72	ug/L	0.00
Spiked Amount	50.000	Range	80 - 124	Recovery	=	19.44%#
95) 4-bromofluorobenzene (s)	15.165	95	25758	8.63	ug/L	0.00
Spiked Amount	50.000	Range	71 - 132	Recovery	=	17.26%#
Target Compounds						
2) 1,4-dioxane	11.532	88	5496	245.83	ug/L	94
4) tertiary butyl alcohol	7.432	59	11996	48.48	ug/L	87
6) chlorodifluoromethane	3.552	51	39053	10.58	ug/L	99
7) dichlorodifluoromethane	3.547	85	43582	11.98	ug/L	99
8) chloromethane	3.851	50	34575	9.35	ug/L	98
9) vinyl chloride	4.123	62	38630	10.26	ug/L	99
10) bromomethane	4.800	94	25976	10.69	ug/L	95
11) chloroethane	5.004	64	13871	11.25	ug/L	95
12) trichlorofluoromethane	5.513	101	44460	11.25	ug/L	98
13) ethyl ether	5.969	74	7801	10.13	ug/L	94
14) 2-chloropropane	6.179	43	30544	10.19	ug/L	98
15) acrolein	6.294	56	30535	99.25	ug/L	99
16) 1,1-dichloroethene	6.435	96	21512	9.83	ug/L	97
17) acetone	6.556	43	5391	9.33	ug/L	99
18) allyl chloride	7.059	76	9640	10.36	ug/L	98
19) acetonitrile	7.070	40	13904	115.73	ug/L	90
20) iodomethane	6.750	142	45197	9.98	ug/L	97
21) iso-butyl alcohol	10.148	41	6053	106.82	ug/L	90
22) carbon disulfide	6.865	76	81861	9.74	ug/L	99
23) methylene chloride	7.290	84	24467	9.11	ug/L	95
24) 1-chloropropane	7.306	42	37116	11.38	ug/L	93
25) methyl acetate	7.065	74	2074	9.42	ug/L #	63
26) methyl tert butyl ether	7.647	73	52311	9.81	ug/L	99
27) trans-1,2-dichloroethene	7.699	96	22282	9.58	ug/L	98
28) di-isopropyl ether	8.339	45	56619	10.39	ug/L	95
29) ethyl tert-butyl ether	8.863	59	56407	10.40	ug/L	99
30) 2-butanone	9.188	72	1599	9.03	ug/L #	65
31) 1,1-dichloroethane	8.365	63	37131	10.27	ug/L	98
32) chloroprene	8.470	53	23697	10.69	ug/L	98
33) acrylonitrile	7.704	53	24987	50.62	ug/L	97
34) vinyl acetate	8.375	86	1677	8.83	ug/L	51
35) ethyl acetate	9.204	45	1751	10.39	ug/L	60

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 3V11188.D
 Acq On : 22 May 2014 12:34 pm
 Operator : thienn
 Sample : ic474-10
 Misc : MS65178,V3V474,5,,,,1
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 22 15:55:02 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M3V474.M
 Quant Title : SW-846 Method 8260
 QLast Update : Thu May 22 08:28:30 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
36) 2,2-dichloropropane	9.188	77	36651	10.55	ug/L	96
37) cis-1,2-dichloroethene	9.204	96	22899	8.72	ug/L	96
38) propionitrile	9.324	54	21633	102.59	ug/L	96
39) methyl acrylate	9.288	55	13812	9.80	ug/L #	95
40) bromochloromethane	9.545	128	10674	10.36	ug/L	99
41) tetrahydrofuran	9.581	42	4711	10.26	ug/L	94
42) chloroform	9.618	83	37217	9.64	ug/L	100
45) freon 113	6.415	151	20110	11.58	ug/L	96
46) methacrylonitrile	9.503	41	6896	9.93	ug/L	95
47) 1,1,1-trichloroethane	9.859	97	36805	10.67	ug/L	98
48) tert-amyl methyl ether	10.368	73	54954	10.15	ug/L	98
50) epichlorohydrin	12.072	57	6455	51.39	ug/L	99
51) n-butyl alcohol	10.939	56	25342	493.64	ug/L	94
52) cyclohexane	9.906	84	33087	10.49	ug/L	98
53) carbon tetrachloride	10.064	117	33717	10.57	ug/L	97
54) 1,1-dichloropropene	10.048	75	26260	10.45	ug/L	96
55) hexane	8.029	57	21011	10.20	ug/L	98
56) ISOCTANE	10.305	57	68705	10.28	ug/L	98
57) benzene	10.331	78	76311	8.79	ug/L	98
58) heptane	10.509	57	12870	10.34	ug/L	96
59) isopropyl acetate	10.294	43	35086	10.18	ug/L	99
60) 1,2-dichloroethane	10.378	62	21384	9.89	ug/L	94
61) trichloroethene	11.091	95	20344	10.09	ug/L	98
63) 2-nitropropane	11.935	43	23687	9.75	ug/L	97
64) 2-chloroethyl vinyl ether	11.941	63	35190	52.76	ug/L	96
65) methyl methacrylate	11.291	41	12958	10.69	ug/L	95
66) 1,2-dichloropropane	11.374	63	18271	9.69	ug/L	99
67) methylcyclohexane	11.285	83	33799	10.54	ug/L	97
68) dibromomethane	11.547	93	11464	10.02	ug/L	97
69) bromodichloromethane	11.684	83	24400	9.92	ug/L	98
70) cis-1,3-dichloropropene	12.145	75	27191	10.11	ug/L	99
72) 4-methyl-2-pentanone	12.250	58	5274	9.96	ug/L	99
73) toluene	12.491	92	43115	9.06	ug/L	98
74) 3-methyl-1-butanol	12.297	70	8793	200.63	ug/L	95
75) trans-1,3-dichloropropene	12.722	75	22810	9.64	ug/L	94
76) ethyl methacrylate	12.711	69	15819	9.65	ug/L	98
77) 1,1,2-trichloroethane	12.942	83	12549	10.04	ug/L	99
78) 2-hexanone	13.120	58	4601	9.45	ug/L	99
80) tetrachloroethene	13.078	166	21799	9.80	ug/L	98
81) 1,3-dichloropropane	13.120	76	22055	9.28	ug/L	97
82) butyl acetate	13.189	56	8714	10.13	ug/L	92
83) dibromochloromethane	13.388	129	19062	9.37	ug/L	98
84) 1,2-dibromoethane	13.535	107	15504	9.44	ug/L	100
86) chlorobenzene	14.001	112	53086	9.19	ug/L	99
87) 1,1,1,2-tetrachloroethane	14.069	131	21360	9.77	ug/L	99
88) ethylbenzene	14.054	91	90063	9.52	ug/L	99
89) m,p-xylene	14.164	106	70000	18.45	ug/L	99
90) o-xylene	14.599	106	34986	8.65	ug/L	90
91) styrene	14.615	104	54388	9.62	ug/L	100
92) bromoform	14.898	173	13930	9.41	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 3V11188.D
 Acq On : 22 May 2014 12:34 pm
 Operator : thienn
 Sample : ic474-10
 Misc : MS65178,V3V474,5,,,,1
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 22 15:55:02 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M3V474.M
 Quant Title : SW-846 Method 8260
 QLast Update : Thu May 22 08:28:30 2014
 Response via : Initial Calibration

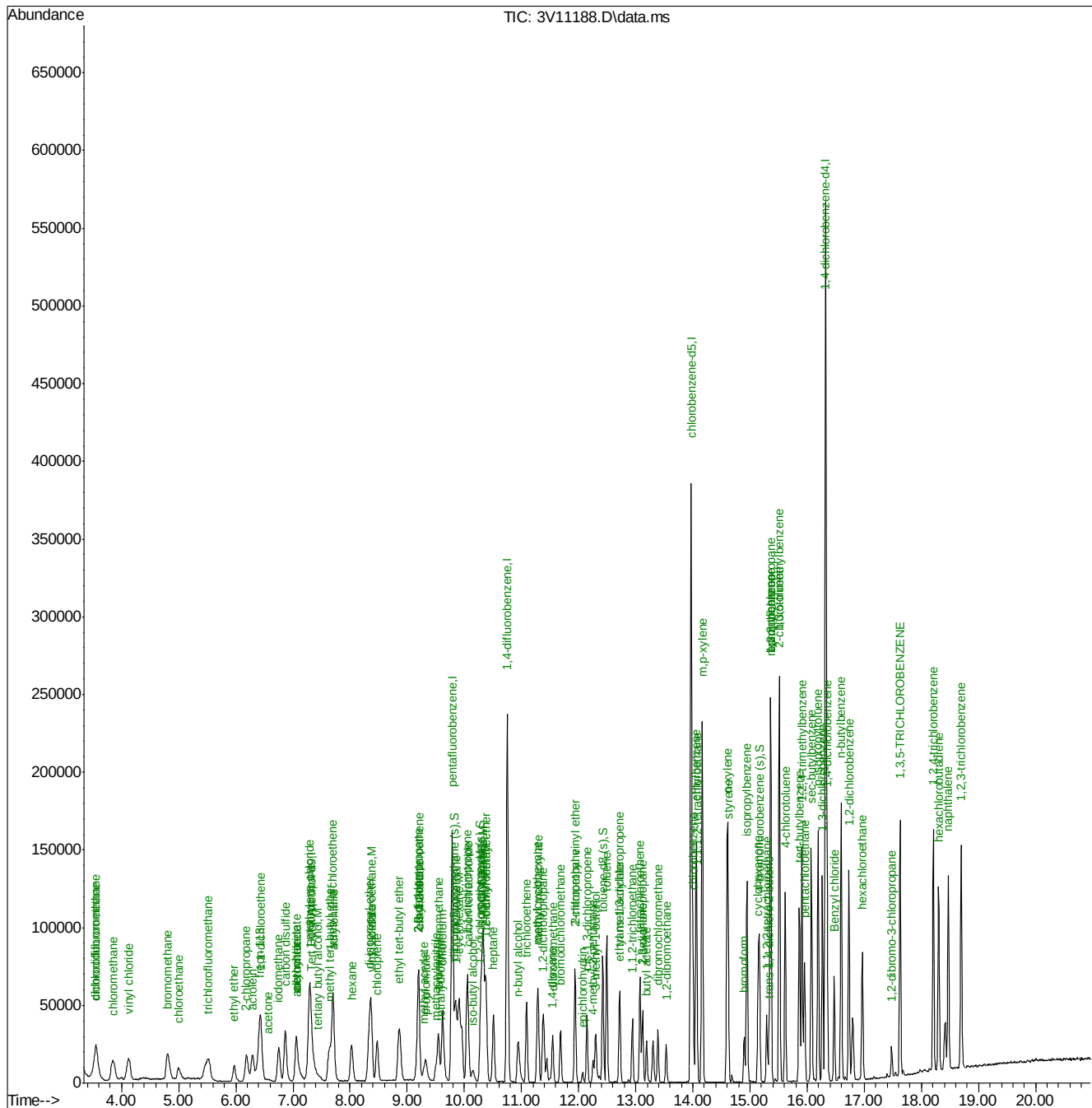
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94)	isopropylbenzene	14.945	105	93795	8.70	ug/L	98
96)	bromobenzene	15.359	156	26097	9.11	ug/L	99
97)	cyclohexanone	15.144	55	31028	80.66	ug/L	99
98)	1,1,2,2-tetrachloroethane	15.291	83	23945	8.89	ug/L	97
99)	trans-1,4-dichloro-2-b...	15.328	53	5144	9.87	ug/L #	79
100)	1,2,3-trichloropropane	15.359	110	5245	9.62	ug/L	97
101)	n-propylbenzene	15.364	91	118117	8.80	ug/L	99
102)	2-chlorotoluene	15.511	126	25540	9.25	ug/L	99
103)	4-chlorotoluene	15.616	91	71783	9.08	ug/L	99
104)	1,3,5-trimethylbenzene	15.516	105	83080	8.38	ug/L	99
105)	tert-butylbenzene	15.862	119	63295	9.21	ug/L	100
106)	pentachloroethane	15.957	167	16048	8.96	ug/L	96
107)	1,2,4-trimethylbenzene	15.910	105	86737	6.81	ug/L	93
108)	sec-butylbenzene	16.072	105	113251	9.33	ug/L	99
109)	1,3-dichlorobenzene	16.266	146	55293	9.04	ug/L	100
110)	p-isopropyltoluene	16.193	119	95788	9.22	ug/L	100
111)	1,4-dichlorobenzene	16.350	146	55490	8.86	ug/L	100
112)	1,2-dichlorobenzene	16.733	146	54747	9.00	ug/L	98
113)	n-butylbenzene	16.596	92	54935	9.26	ug/L	99
114)	1,2-dibromo-3-chloropr...	17.477	75	5124	9.34	ug/L	87
115)	1,3,5-TRICHLOROBENZENE	17.629	180	54926	9.27	ug/L	98
116)	1,2,4-trichlorobenzene	18.211	180	50715	8.95	ug/L	98
117)	hexachlorobutadiene	18.300	225	27458	9.49	ug/L	99
118)	naphthalene	18.468	128	97024	8.07	ug/L	99
119)	1,2,3-trichlorobenzene	18.694	180	47717	9.01	ug/L	99
120)	hexachloroethane	16.964	119	18455	8.68	ug/L	97
121)	Benzyl chloride	16.471	91	47981	10.03	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

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Data Path   : C:\msdchem\1\DATA\  
Data File  : 3V11188.D  
Acq On     : 22 May 2014  12:34 pm  
Operator   : thienn  
Sample     : ic474-10  
Misc       : MS65178,V3V474,5,,,,,1  
ALS Vial   : 7      Sample Multiplier: 1
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Quant Time: May 22 15:55:02 2014
Quant Method : C:\MSDCHEM\1\METHODS\M3V474.M
Quant Title : SW-846 Method 8260
QLast Update : Thu May 22 08:28:30 2014
Response via : Initial Calibration



Page: 4



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 3V11189.D
 Acq On : 22 May 2014 1:01 pm
 Operator : thienn
 Sample : ic474-20
 Misc : MS65178,V3V474,5,,,,,1
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 22 15:55:28 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M3V474.M
 Quant Title : SW-846 Method 8260
 QLast Update : Thu May 22 08:28:30 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	7.306	65	101825	500.00	ug/L	# 0.00
5) pentafluorobenzene	9.786	168	153244	50.00	ug/L	0.00
49) 1,4-difluorobenzene	10.750	114	236365	50.00	ug/L	0.00
79) chlorobenzene-d5	13.970	117	218905	50.00	ug/L	0.00
93) 1,4-dichlorobenzene-d4	16.324	152	143693	50.00	ug/L	0.00
System Monitoring Compounds						
43) dibromofluoromethane (s)	9.833	113	96313	47.53	ug/L	0.00
Spiked Amount	50.000	Range	59 - 130	Recovery	=	95.06%
44) 1,2-dichloroethane-d4 (s)	10.279	65	86372	49.07	ug/L	0.00
Spiked Amount	50.000	Range	65 - 123	Recovery	=	98.14%
71) toluene-d8 (s)	12.423	98	295217	47.86	ug/L	0.00
Spiked Amount	50.000	Range	80 - 124	Recovery	=	95.72%
95) 4-bromofluorobenzene (s)	15.165	95	125790	43.46	ug/L	0.00
Spiked Amount	50.000	Range	71 - 132	Recovery	=	86.92%
Target Compounds						
2) 1,4-dioxane	11.516	88	12398	474.75	ug/L	# 100
4) tertiary butyl alcohol	7.432	59	27305	94.47	ug/L	97
6) chlorodifluoromethane	3.552	51	63978	17.63	ug/L	97
7) dichlorodifluoromethane	3.541	85	84573	23.66	ug/L	99
8) chloromethane	3.856	50	70486	19.38	ug/L	99
9) vinyl chloride	4.128	62	76706	20.73	ug/L	98
10) bromomethane	4.810	94	49730	20.83	ug/L	99
11) chloroethane	4.999	64	26797	22.11	ug/L	93
12) trichlorofluoromethane	5.518	101	86648	22.30	ug/L	99
13) ethyl ether	5.974	74	17101	22.58	ug/L	92
14) 2-chloropropane	6.184	43	62155	21.09	ug/L	97
15) acrolein	6.294	56	66185	218.85	ug/L	100
16) 1,1-dichloroethene	6.435	96	43860	20.38	ug/L	96
17) acetone	6.545	43	13274	23.37	ug/L	98
18) allyl chloride	7.059	76	20524	22.45	ug/L	98
19) acetonitrile	7.070	40	29229	247.51	ug/L	87
20) iodomethane	6.745	142	94946	21.32	ug/L	99
21) iso-butyl alcohol	10.147	41	13554	243.34	ug/L	91
22) carbon disulfide	6.865	76	168603	20.40	ug/L	98
23) methylene chloride	7.285	84	48641	18.42	ug/L	96
24) 1-chloropropane	7.306	42	69274	21.60	ug/L	97
25) methyl acetate	7.054	74	4846	22.38	ug/L	# 86
26) methyl tert butyl ether	7.641	73	113736	21.70	ug/L	97
27) trans-1,2-dichloroethene	7.699	96	45526	19.91	ug/L	96
28) di-isopropyl ether	8.339	45	109546	20.46	ug/L	99
29) ethyl tert-butyl ether	8.863	59	111490	20.90	ug/L	98
30) 2-butanone	9.188	72	4067	23.36	ug/L	99
31) 1,1-dichloroethane	8.365	63	75871	21.34	ug/L	99
32) chloroprene	8.470	53	47145	21.63	ug/L	97
33) acrylonitrile	7.704	53	57776	119.08	ug/L	98
34) vinyl acetate	8.370	86	4096	21.94	ug/L	73
35) ethyl acetate	9.198	45	3736	22.55	ug/L	81

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 3V11189.D
 Acq On : 22 May 2014 1:01 pm
 Operator : thienn
 Sample : ic474-20
 Misc : MS65178,V3V474,5,,,,1
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 22 15:55:28 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M3V474.M
 Quant Title : SW-846 Method 8260
 QLast Update : Thu May 22 08:28:30 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
36) 2,2-dichloropropane	9.183	77	74654	21.86	ug/L	98
37) cis-1,2-dichloroethene	9.198	96	49493	19.16	ug/L	98
38) propionitrile	9.319	54	50012	241.29	ug/L	99
39) methyl acrylate	9.288	55	32145	23.20	ug/L #	98
40) bromochloromethane	9.544	128	23265	22.98	ug/L	96
41) tetrahydrofuran	9.576	42	10457	23.16	ug/L	97
42) chloroform	9.618	83	76094	20.06	ug/L	100
45) freon 113	6.414	151	37795	22.14	ug/L	95
46) methacrylonitrile	9.497	41	15856	23.23	ug/L	93
47) 1,1,1-trichloroethane	9.854	97	74634	22.00	ug/L	99
48) tert-amyl methyl ether	10.373	73	109891	20.65	ug/L	99
50) epichlorohydrin	12.066	57	14037	112.11	ug/L	97
51) n-butyl alcohol	10.939	56	61873	1209.14	ug/L	96
52) cyclohexane	9.912	84	67574	21.49	ug/L	98
53) carbon tetrachloride	10.064	117	68473	21.53	ug/L	99
54) 1,1-dichloropropene	10.048	75	53407	21.31	ug/L	100
55) hexane	8.029	57	40507	19.73	ug/L	98
56) ISOCTANE	10.310	57	136480	20.49	ug/L	97
57) benzene	10.331	78	156348	18.06	ug/L	99
58) heptane	10.509	57	26270	21.17	ug/L	95
59) isopropyl acetate	10.294	43	73081	21.28	ug/L	98
60) 1,2-dichloroethane	10.378	62	45879	21.29	ug/L	98
61) trichloroethene	11.091	95	41992	20.90	ug/L	100
63) 2-nitropropane	11.935	43	51321	21.18	ug/L	99
64) 2-chloroethyl vinyl ether	11.935	63	74973	112.78	ug/L	99
65) methyl methacrylate	11.290	41	25143	20.82	ug/L	100
66) 1,2-dichloropropane	11.374	63	38863	20.67	ug/L	99
67) methylcyclohexane	11.285	83	65392	20.46	ug/L	97
68) dibromomethane	11.542	93	24841	21.79	ug/L	95
69) bromodichloromethane	11.684	83	51386	20.96	ug/L	96
70) cis-1,3-dichloropropene	12.145	75	57692	21.51	ug/L	97
72) 4-methyl-2-pentanone	12.250	58	12565	23.81	ug/L	99
73) toluene	12.496	92	88809	18.72	ug/L	97
74) 3-methyl-1-butanol	12.297	70	21462	491.27	ug/L	98
75) trans-1,3-dichloropropene	12.722	75	50682	21.49	ug/L	97
76) ethyl methacrylate	12.711	69	36667	22.44	ug/L	99
77) 1,1,2-trichloroethane	12.942	83	26702	21.43	ug/L	96
78) 2-hexanone	13.115	58	11416	23.53	ug/L	99
80) tetrachloroethene	13.078	166	44992	20.82	ug/L	99
81) 1,3-dichloropropane	13.120	76	46951	20.34	ug/L	97
82) butyl acetate	13.188	56	20040	23.97	ug/L	99
83) dibromochloromethane	13.388	129	41409	20.95	ug/L	99
84) 1,2-dibromoethane	13.534	107	34083	21.35	ug/L	100
86) chlorobenzene	14.001	112	108771	19.37	ug/L	99
87) 1,1,1,2-tetrachloroethane	14.069	131	44511	20.95	ug/L	98
88) ethylbenzene	14.054	91	184421	20.06	ug/L	99
89) m,p-xylene	14.164	106	143132	38.83	ug/L	97
90) o-xylene	14.599	106	73343	18.66	ug/L	95
91) styrene	14.615	104	114969	20.93	ug/L	99
92) bromoform	14.898	173	31213	21.71	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 3V11189.D
Acq On : 22 May 2014 1:01 pm
Operator : thienn
Sample : ic474-20
Misc : MS65178,V3V474,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 22 15:55:28 2014
Quant Method : C:\MSDCHEM\1\METHODS\M3V474.M
Quant Title : SW-846 Method 8260
QLast Update : Thu May 22 08:28:30 2014
Response via : Initial Calibration

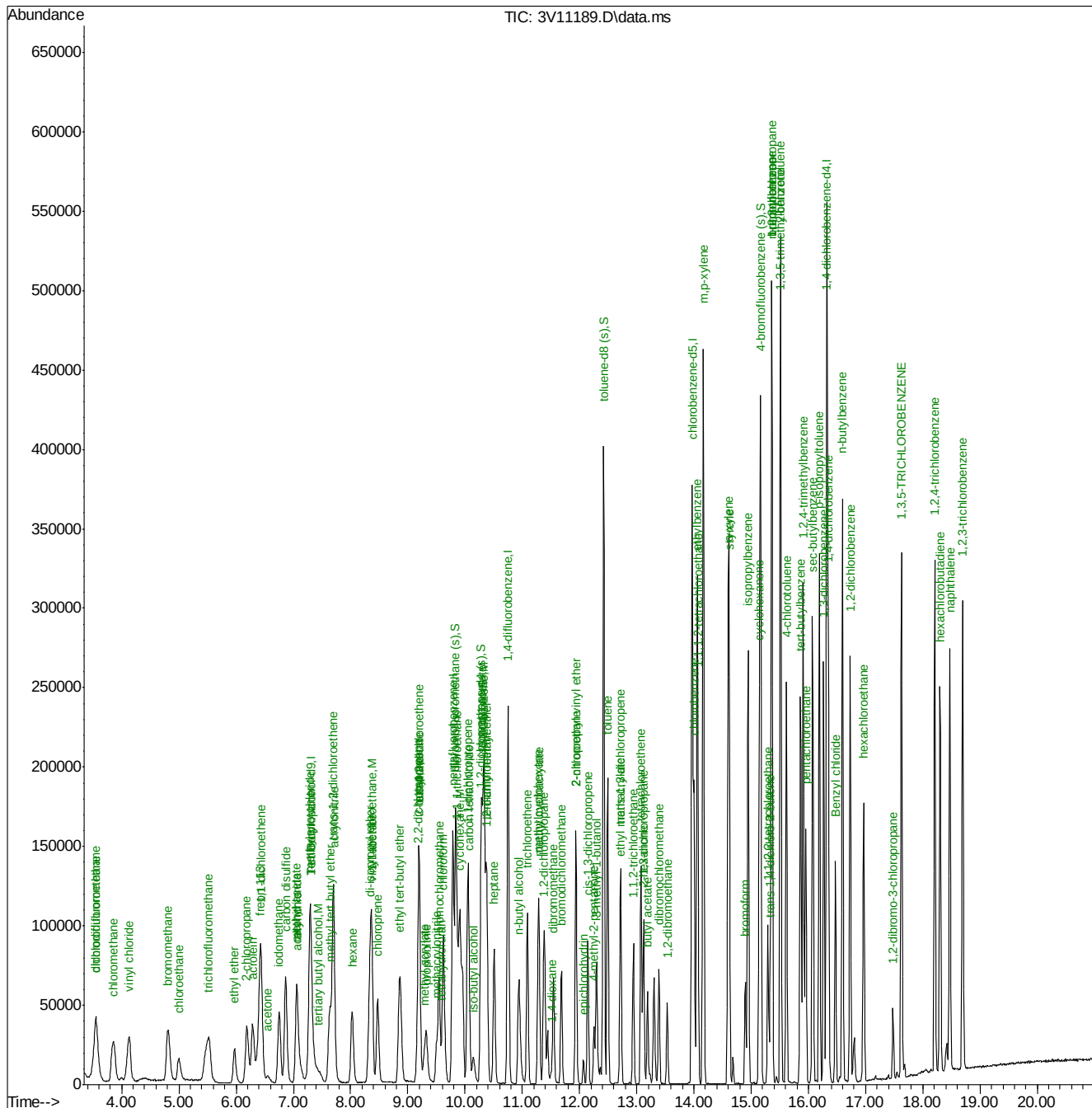
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94)	isopropylbenzene	14.950	105	198743	19.00	ug/L	100
96)	bromobenzene	15.359	156	53803	19.37	ug/L	98
97)	cyclohexanone	15.144	55	92458	247.74	ug/L	99
98)	1,1,2,2-tetrachloroethane	15.291	83	53202	20.35	ug/L	99
99)	trans-1,4-dichloro-2-b...	15.333	53	11446	22.64	ug/L	94
100)	1,2,3-trichloropropane	15.359	110	11537	21.81	ug/L	91
101)	n-propylbenzene	15.364	91	237095	18.20	ug/L	100
102)	2-chlorotoluene	15.511	126	52146	19.47	ug/L	98
103)	4-chlorotoluene	15.616	91	144997	18.90	ug/L	99
104)	1,3,5-trimethylbenzene	15.516	105	171798	17.86	ug/L	100
105)	tert-butylbenzene	15.862	119	133417	20.01	ug/L	99
106)	pentachloroethane	15.957	167	34581	19.91	ug/L	98
107)	1,2,4-trimethylbenzene	15.910	105	176981	14.32	ug/L	95
108)	sec-butylbenzene	16.072	105	233339	19.82	ug/L	99
109)	1,3-dichlorobenzene	16.266	146	112486	18.96	ug/L	99
110)	p-isopropyltoluene	16.193	119	198047	19.66	ug/L	100
111)	1,4-dichlorobenzene	16.350	146	112570	18.52	ug/L	99
112)	1,2-dichlorobenzene	16.733	146	111330	18.86	ug/L	99
113)	n-butylbenzene	16.596	92	113360	19.69	ug/L	98
114)	1,2-dibromo-3-chloropr...	17.477	75	11071	20.81	ug/L	97
115)	1,3,5-TRICHLOROBENZENE	17.629	180	111106	19.33	ug/L	99
116)	1,2,4-trichlorobenzene	18.211	180	103166	18.77	ug/L	99
117)	hexachlorobutadiene	18.300	225	54654	19.47	ug/L	99
118)	naphthalene	18.473	128	211212	18.12	ug/L	99
119)	1,2,3-trichlorobenzene	18.694	180	97885	19.05	ug/L	99
120)	hexachloroethane	16.969	119	38094	18.46	ug/L	99
121)	Benzyl chloride	16.471	91	98186	21.15	ug/L	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 3V11189.D
Acq On : 22 May 2014 1:01 pm
Operator : thienn
Sample : ic474-20
Misc : MS65178,V3V474,5,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 22 15:55:28 2014
Quant Method : C:\MSDCHEM\1\METHODS\M3V474.M
Quant Title : SW-846 Method 8260
QLast Update : Thu May 22 08:28:30 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 3V11190.D
 Acq On : 22 May 2014 1:28 pm
 Operator : thienn
 Sample : icc474-50
 Misc : MS65178,V3V474,5,,,,,1
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 22 15:33:52 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M3V474.M
 Quant Title : SW-846 Method 8260
 QLast Update : Thu May 22 08:28:30 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	7.306	65	83422	500.00	ug/L	0.00
5) pentafluorobenzene	9.786	168	152902	50.00	ug/L	0.00
49) 1,4-difluorobenzene	10.750	114	230123	50.00	ug/L	0.00
79) chlorobenzene-d5	13.970	117	215268	50.00	ug/L	0.00
93) 1,4-dichlorobenzene-d4	16.324	152	139827	50.00	ug/L	0.00
System Monitoring Compounds						
43) dibromofluoromethane (s)	9.833	113	94725	46.85	ug/L	0.00
Spiked Amount 50.000	Range 59 - 130		Recovery =	93.70%		
44) 1,2-dichloroethane-d4 (s)	10.279	65	82748	47.12	ug/L	0.00
Spiked Amount 50.000	Range 65 - 123		Recovery =	94.24%		
71) toluene-d8 (s)	12.418	98	292220	48.66	ug/L	0.00
Spiked Amount 50.000	Range 80 - 124		Recovery =	97.32%		
95) 4-bromofluorobenzene (s)	15.165	95	120199	42.67	ug/L	0.00
Spiked Amount 50.000	Range 71 - 132		Recovery =	85.34%		
Target Compounds						
2) 1,4-dioxane	11.505	88	27764	1297.69	ug/L	99
4) tertiary butyl alcohol	7.453	59	56442	238.36	ug/L	98
6) chlorodifluoromethane	3.546	51	150643	41.60	ug/L	97
7) dichlorodifluoromethane	3.536	85	211391	59.27	ug/L	98
8) chloromethane	3.851	50	178797	49.28	ug/L	100
9) vinyl chloride	4.123	62	195973	53.08	ug/L	100
10) bromomethane	4.805	94	120861	50.73	ug/L	98
11) chloroethane	4.988	64	63781	52.75	ug/L	98
12) trichlorofluoromethane	5.513	101	211812	54.63	ug/L	99
13) ethyl ether	5.964	74	38876	51.45	ug/L	97
14) 2-chloropropane	6.178	43	148778	50.59	ug/L	100
15) acrolein	6.283	56	139386	461.94	ug/L	97
16) 1,1-dichloroethene	6.430	96	102517	47.74	ug/L	95
17) acetone	6.540	43	23176	40.90	ug/L	92
18) allyl chloride	7.054	76	46885	51.39	ug/L	97
19) acetonitrile	7.065	40	64822	550.13	ug/L	100
20) iodomethane	6.745	142	225803	50.82	ug/L	99
21) iso-butyl alcohol	10.147	41	27321	491.60	ug/L	98
22) carbon disulfide	6.860	76	401586	48.71	ug/L	100
23) methylene chloride	7.285	84	112190	42.59	ug/L	96
24) 1-chloropropane	7.300	42	143374	44.81	ug/L	100
25) methyl acetate	7.054	74	10866	50.30	ug/L	93
26) methyl tert butyl ether	7.636	73	261160	49.93	ug/L	99
27) trans-1,2-dichloroethene	7.694	96	106627	46.74	ug/L	99
28) di-isopropyl ether	8.333	45	276431	51.74	ug/L	96
29) ethyl tert-butyl ether	8.858	59	282898	53.16	ug/L	99
30) 2-butanone	9.178	72	8405	48.38	ug/L	95
31) 1,1-dichloroethane	8.365	63	176484	49.75	ug/L	99
32) chloroprene	8.470	53	119462	54.94	ug/L	99
33) acrylonitrile	7.699	53	123070	254.23	ug/L	98
34) vinyl acetate	8.370	86	10031	53.86	ug/L	80
35) ethyl acetate	9.204	45	8176	49.45	ug/L	71

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 3V11190.D
 Acq On : 22 May 2014 1:28 pm
 Operator : thienn
 Sample : icc474-50
 Misc : MS65178,V3V474,5,,,,1
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 22 15:33:52 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M3V474.M
 Quant Title : SW-846 Method 8260
 QLast Update : Thu May 22 08:28:30 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
36) 2,2-dichloropropane	9.188	77	180135	52.86	ug/L	99
37) cis-1,2-dichloroethene	9.198	96	114842	44.57	ug/L	97
38) propionitrile	9.324	54	104904	507.25	ug/L	91
39) methyl acrylate	9.282	55	68924	49.85	ug/L #	100
40) bromochloromethane	9.544	128	53786	53.25	ug/L	98
41) tetrahydrofuran	9.571	42	22131	49.12	ug/L	97
42) chloroform	9.613	83	180327	47.63	ug/L	100
45) freon 113	6.404	151	95209	55.90	ug/L	97
46) methacrylonitrile	9.497	41	34747	51.03	ug/L	98
47) 1,1,1-trichloroethane	9.854	97	180731	53.40	ug/L	99
48) tert-amyl methyl ether	10.373	73	272269	51.28	ug/L	98
50) epichlorohydrin	12.066	57	31545	258.78	ug/L	98
51) n-butyl alcohol	10.939	56	132246	2654.49	ug/L	99
52) cyclohexane	9.906	84	159965	52.25	ug/L	96
53) carbon tetrachloride	10.064	117	165915	53.59	ug/L	99
54) 1,1-dichloropropene	10.048	75	127592	52.30	ug/L	100
55) hexane	8.024	57	98336	49.19	ug/L	98
56) ISOOCANE	10.310	57	364727	56.25	ug/L	100
57) benzene	10.331	78	370529	43.97	ug/L	99
58) heptane	10.509	57	62440	51.68	ug/L	97
59) isopropyl acetate	10.294	43	172351	51.55	ug/L	99
60) 1,2-dichloroethane	10.378	62	106182	50.60	ug/L	99
61) trichloroethene	11.086	95	99668	50.96	ug/L	97
63) 2-nitropropane	11.935	43	120010	50.88	ug/L	98
64) 2-chloroethyl vinyl ether	11.935	63	179460	277.28	ug/L	100
65) methyl methacrylate	11.285	41	62536	53.18	ug/L	95
66) 1,2-dichloropropane	11.374	63	91371	49.91	ug/L	98
67) methylcyclohexane	11.285	83	168640	54.20	ug/L	100
68) dibromomethane	11.542	93	57461	51.78	ug/L	99
69) bromodichloromethane	11.684	83	123623	51.80	ug/L	98
70) cis-1,3-dichloropropene	12.145	75	138282	52.96	ug/L	100
72) 4-methyl-2-pentanone	12.250	58	26873	52.31	ug/L	100
73) toluene	12.491	92	212115	45.91	ug/L	99
74) 3-methyl-1-butanol	12.297	70	47127	1108.02	ug/L	99
75) trans-1,3-dichloropropene	12.722	75	118390	51.56	ug/L	97
76) ethyl methacrylate	12.711	69	83281	52.34	ug/L	99
77) 1,1,2-trichloroethane	12.942	83	62298	51.36	ug/L	99
78) 2-hexanone	13.115	58	23569	49.89	ug/L	99
80) tetrachloroethene	13.078	166	105219	49.52	ug/L	97
81) 1,3-dichloropropane	13.120	76	107261	47.24	ug/L	100
82) butyl acetate	13.188	56	42089	51.20	ug/L	97
83) dibromochloromethane	13.388	129	98691	50.78	ug/L	97
84) 1,2-dibromoethane	13.534	107	77319	49.26	ug/L	97
86) chlorobenzene	14.001	112	256507	46.46	ug/L	99
87) 1,1,1,2-tetrachloroethane	14.069	131	108773	52.07	ug/L	99
88) ethylbenzene	14.054	91	439509	48.62	ug/L	98
89) m,p-xylene	14.164	106	341999	94.35	ug/L	99
90) o-xylene	14.599	106	178478	46.18	ug/L	100
91) styrene	14.615	104	276737	51.23	ug/L	99
92) bromoform	14.898	173	71807	50.78	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 3V11190.D
 Acq On : 22 May 2014 1:28 pm
 Operator : thienn
 Sample : icc474-50
 Misc : MS65178,V3V474,5,,,,1
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 22 15:33:52 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M3V474.M
 Quant Title : SW-846 Method 8260
 QLast Update : Thu May 22 08:28:30 2014
 Response via : Initial Calibration

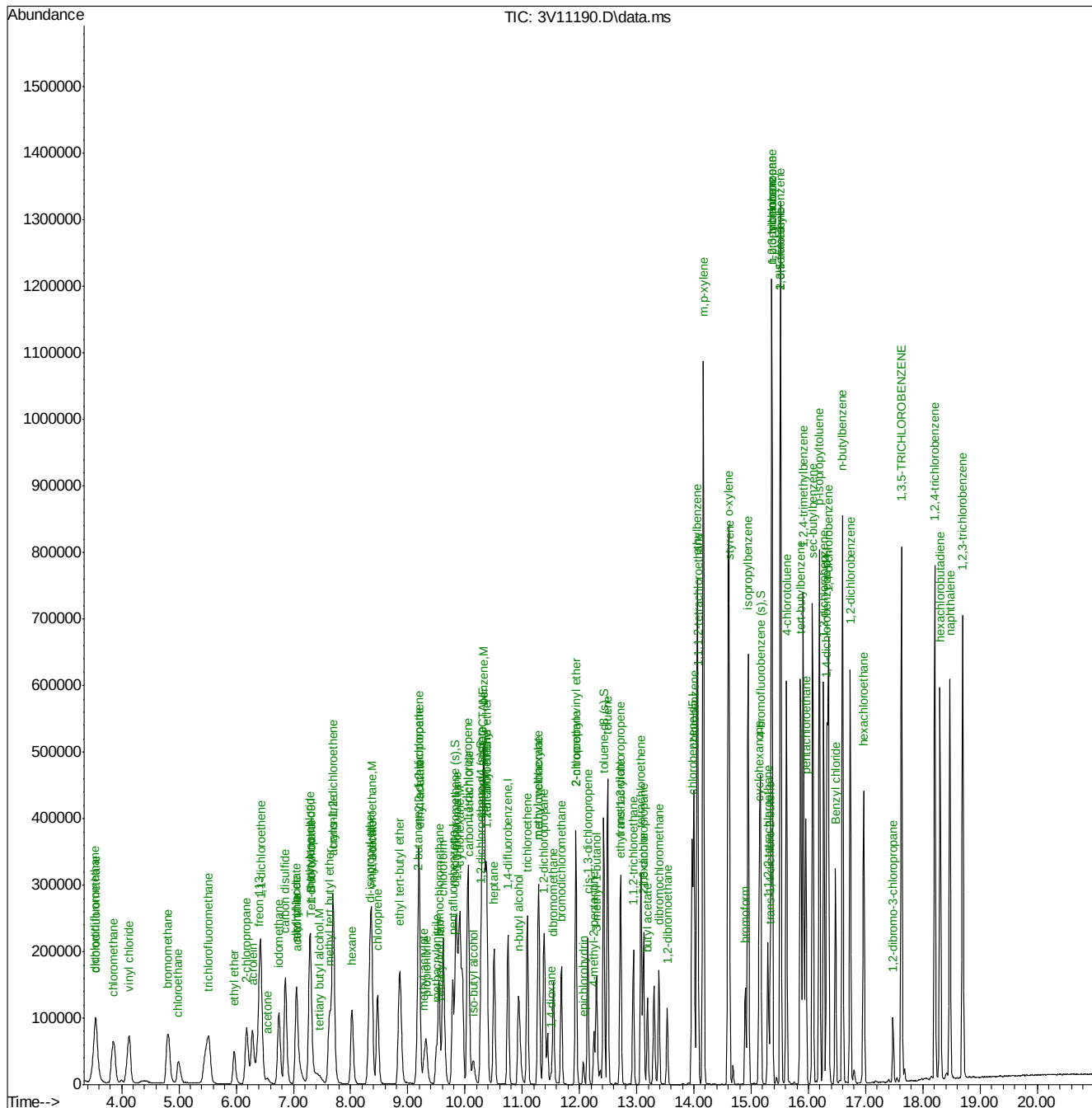
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94)	isopropylbenzene	14.950	105	479873	47.15	ug/L	99
96)	bromobenzene	15.359	156	126808	46.91	ug/L	98
97)	cyclohexanone	15.144	55	148904	410.02	ug/L	99
98)	1,1,2,2-tetrachloroethane	15.291	83	118022	46.40	ug/L	100
99)	trans-1,4-dichloro-2-b...	15.333	53	25177	51.19	ug/L	98
100)	1,2,3-trichloropropane	15.364	110	25274	49.09	ug/L	98
101)	n-propylbenzene	15.364	91	571504	45.09	ug/L	100
102)	2-chlorotoluene	15.516	126	125136	48.02	ug/L	99
103)	4-chlorotoluene	15.616	91	341405	45.72	ug/L	99
104)	1,3,5-trimethylbenzene	15.516	105	420702	44.95	ug/L	99
105)	tert-butylbenzene	15.862	119	331962	51.17	ug/L	98
106)	pentachloroethane	15.957	167	87038	51.49	ug/L	99
107)	1,2,4-trimethylbenzene	15.910	105	423347	35.20	ug/L	99
108)	sec-butylbenzene	16.072	105	571696	49.90	ug/L	99
109)	1,3-dichlorobenzene	16.266	146	264421	45.81	ug/L	99
110)	p-isopropyltoluene	16.193	119	484209	49.39	ug/L	100
111)	1,4-dichlorobenzene	16.350	146	264737	44.76	ug/L	100
112)	1,2-dichlorobenzene	16.733	146	258683	45.03	ug/L	99
113)	n-butylbenzene	16.596	92	265229	47.34	ug/L	99
114)	1,2-dibromo-3-chloropr...	17.477	75	24116	46.59	ug/L	98
115)	1,3,5-TRICHLOROBENZENE	17.629	180	266886	47.71	ug/L	99
116)	1,2,4-trichlorobenzene	18.211	180	249673	46.67	ug/L	98
117)	hexachlorobutadiene	18.300	225	134286	49.16	ug/L	98
118)	naphthalene	18.473	128	482009	42.49	ug/L	100
119)	1,2,3-trichlorobenzene	18.694	180	234821	46.96	ug/L	99
120)	hexachloroethane	16.969	119	97991	48.80	ug/L	100
121)	Benzyl chloride	16.471	91	230452	51.01	ug/L	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 3V11190.D
Acq On : 22 May 2014 1:28 pm
Operator : thienn
Sample : icc474-50
Misc : MS65178,V3V474,5,,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 22 15:33:52 2014
Quant Method : C:\MSDCHEM\1\METHODS\M3V474.M
Quant Title : SW-846 Method 8260
QLast Update : Thu May 22 08:28:30 2014
Response via : Initial Calibration



M3V474.M Thu May 29 13:14:44 2014 GCMS3V

Page: 4

7.6.20

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 3V11191.D
 Acq On : 22 May 2014 1:54 pm
 Operator : thienn
 Sample : ic474-100
 Misc : MS65178,V3V474,5,,,1
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 22 17:05:33 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M3V474.M
 Quant Title : SW-846 Method 8260
 QLast Update : Thu May 22 08:28:30 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	7.316	65	87890	500.00	ug/L	0.00
5) pentafluorobenzene	9.786	168	161098	50.00	ug/L	0.00
49) 1,4-difluorobenzene	10.750	114	245102	50.00	ug/L	0.00
79) chlorobenzene-d5	13.970	117	227268	50.00	ug/L	0.00
93) 1,4-dichlorobenzene-d4	16.324	152	146728	50.00	ug/L	0.00
System Monitoring Compounds						
43) dibromofluoromethane (s)	9.833	113	201051	94.38	ug/L	0.00
Spiked Amount	50.000	Range	59 - 130	Recovery	=	188.76%#
44) 1,2-dichloroethane-d4 (s)	10.279	65	174532	94.33	ug/L	0.00
Spiked Amount	50.000	Range	65 - 123	Recovery	=	188.66%#
71) toluene-d8 (s)	12.418	98	611951	95.68	ug/L	0.00
Spiked Amount	50.000	Range	80 - 124	Recovery	=	191.36%#
95) 4-bromofluorobenzene (s)	15.165	95	246249	83.31	ug/L	0.00
Spiked Amount	50.000	Range	71 - 132	Recovery	=	166.62%#
Target Compounds						
2) 1,4-dioxane	11.505	88	61261	2717.77	ug/L	98
4) tertiary butyl alcohol	7.432	59	120890	484.58	ug/L	97
6) chlorodifluoromethane	3.552	51	302745	79.35	ug/L	98
7) dichlorodifluoromethane	3.541	85	440459	117.21	ug/L	98
8) chloromethane	3.872	50	400885	104.87	ug/L	98
9) vinyl chloride	4.134	62	428711	110.21	ug/L	100
10) bromomethane	4.821	94	247908	98.77	ug/L	100
11) chloroethane	4.999	64	135789	106.60	ug/L	97
12) trichlorofluoromethane	5.513	101	458181	112.15	ug/L	100
13) ethyl ether	5.969	74	85189	107.01	ug/L	99
14) 2-chloropropane	6.189	43	310326	100.16	ug/L	99
16) 1,1-dichloroethene	6.435	96	214287	94.72	ug/L	98
17) acetone	6.546	43	49210	82.43	ug/L	94
18) allyl chloride	7.059	76	98871	102.86	ug/L	97
19) acetonitrile	7.065	40	136826	1102.13	ug/L	95
20) iodomethane	6.750	142	478507	102.21	ug/L	99
21) iso-butyl alcohol	10.148	41	58867	1005.34	ug/L	96
22) carbon disulfide	6.865	76	839491	96.64	ug/L	100
23) methylene chloride	7.285	84	238284	85.85	ug/L	96
24) 1-chloropropane	7.306	42	298007	88.41	ug/L	100
25) methyl acetate	7.065	74	23736	104.29	ug/L	98
26) methyl tert butyl ether	7.647	73	559357	101.50	ug/L	99
27) trans-1,2-dichloroethene	7.699	96	223397	92.95	ug/L	97
28) di-isopropyl ether	8.333	45	595902	105.86	ug/L	97
29) ethyl tert-butyl ether	8.863	59	620825	110.73	ug/L	99
30) 2-butanone	9.183	72	19036	104.01	ug/L	98
31) 1,1-dichloroethane	8.365	63	374568	100.22	ug/L	100
32) chloroprene	8.475	53	260368	113.66	ug/L	98
33) acrylonitrile	7.699	53	261606	512.91	ug/L	99
34) vinyl acetate	8.370	86	22764	116.01	ug/L	88
35) ethyl acetate	9.199	45	18193	104.44	ug/L	92
36) 2,2-dichloropropane	9.188	77	373094	103.91	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 3V11191.D
 Acq On : 22 May 2014 1:54 pm
 Operator : thienn
 Sample : ic474-100
 Misc : MS65178,V3V474,5,,,,1
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 22 17:05:33 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M3V474.M
 Quant Title : SW-846 Method 8260
 QLast Update : Thu May 22 08:28:30 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) cis-1,2-dichloroethene	9.199	96	242334	89.26	ug/L	99
38) propionitrile	9.319	54	221264	1015.46	ug/L	95
39) methyl acrylate	9.282	55	149702	102.76	ug/L #	99
40) bromochloromethane	9.545	128	117156	110.09	ug/L	96
41) tetrahydrofuran	9.571	42	47174	99.38	ug/L	99
42) chloroform	9.618	83	380030	95.28	ug/L	99
45) freon 113	6.414	151	205169	114.34	ug/L	98
46) methacrylonitrile	9.497	41	74594	103.98	ug/L	98
47) 1,1,1-trichloroethane	9.854	97	377932	105.98	ug/L	98
48) tert-amyl methyl ether	10.373	73	605820	108.31	ug/L	98
50) epichlorohydrin	12.066	57	68306	526.10	ug/L	97
51) n-butyl alcohol	10.939	56	291771	5498.63	ug/L	98
52) cyclohexane	9.906	84	340304	104.37	ug/L	100
53) carbon tetrachloride	10.064	117	348260	105.61	ug/L	100
54) 1,1-dichloropropene	10.048	75	270769	104.20	ug/L	99
55) hexane	8.024	57	216088	101.49	ug/L	98
56) ISOOCCTANE	10.315	57	826986	119.75	ug/L	99
57) benzene	10.331	78	788340	87.84	ug/L	100
58) heptane	10.509	57	135352	105.19	ug/L	98
59) isopropyl acetate	10.294	43	374606	105.20	ug/L	99
60) 1,2-dichloroethane	10.378	62	228189	102.10	ug/L	99
61) trichloroethene	11.091	95	211487	101.52	ug/L	99
63) 2-nitropropane	11.935	43	260717	103.79	ug/L	99
64) 2-chloroethyl vinyl ether	11.935	63	391705	568.23	ug/L	100
65) methyl methacrylate	11.285	41	134089	107.05	ug/L	95
66) 1,2-dichloropropane	11.374	63	192734	98.84	ug/L	99
67) methylcyclohexane	11.285	83	367131	110.79	ug/L	100
68) dibromomethane	11.542	93	123354	104.36	ug/L	100
69) bromodichloromethane	11.684	83	264983	104.24	ug/L	98
70) cis-1,3-dichloropropene	12.145	75	295117	106.12	ug/L	99
72) 4-methyl-2-pentanone	12.250	58	58152	106.28	ug/L	98
73) toluene	12.496	92	446644	90.77	ug/L	100
74) 3-methyl-1-butanol	12.297	70	103594	2286.78	ug/L	99
75) trans-1,3-dichloropropene	12.722	75	250898	102.58	ug/L	98
76) ethyl methacrylate	12.711	69	181816	107.28	ug/L	98
77) 1,1,2-trichloroethane	12.942	83	130885	101.30	ug/L	99
78) 2-hexanone	13.115	58	50657	100.68	ug/L	94
80) tetrachloroethene	13.078	166	227663	101.48	ug/L	99
81) 1,3-dichloropropane	13.120	76	224782	93.77	ug/L	99
82) butyl acetate	13.188	56	88891	102.42	ug/L	97
83) dibromochloromethane	13.388	129	215244	104.91	ug/L	98
84) 1,2-dibromoethane	13.535	107	165005	99.57	ug/L	98
86) chlorobenzene	14.001	112	541209	92.85	ug/L	100
87) 1,1,1,2-tetrachloroethane	14.069	131	235342	106.71	ug/L	99
88) ethylbenzene	14.054	91	913703	95.75	ug/L	99
89) m,p-xylene	14.164	106	707231	184.80	ug/L	100
90) o-xylene	14.599	106	374954	91.89	ug/L	99
91) styrene	14.615	104	581263	101.93	ug/L	99
92) bromoform	14.898	173	156350	104.72	ug/L	99
94) isopropylbenzene	14.950	105	1015523	95.09	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 3V11191.D
 Acq On : 22 May 2014 1:54 pm
 Operator : thienn
 Sample : ic474-100
 Misc : MS65178,V3V474,5,,,,1
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 22 17:05:33 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M3V474.M
 Quant Title : SW-846 Method 8260
 QLast Update : Thu May 22 08:28:30 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
96) bromobenzene	15.359	156	265833	93.70	ug/L	98
97) cyclohexanone	15.144	55	344172	903.13	ug/L	99
98) 1,1,2,2-tetrachloroethane	15.291	83	247154	92.60	ug/L	100
99) trans-1,4-dichloro-2-b...	15.333	53	53630	103.90	ug/L	100
100) 1,2,3-trichloropropane	15.364	110	52209	96.64	ug/L	98
101) n-propylbenzene	15.364	91	1174901	88.34	ug/L	100
102) 2-chlorotoluene	15.516	126	259341	94.85	ug/L	96
103) 4-chlorotoluene	15.616	91	713434	91.05	ug/L	99
104) 1,3,5-trimethylbenzene	15.516	105	898163	91.45	ug/L	99
105) tert-butylbenzene	15.862	119	728162	106.96	ug/L	98
106) pentachloroethane	15.957	167	190005	107.12	ug/L	98
107) 1,2,4-trimethylbenzene	15.910	105	892897	70.75	ug/L	100
108) sec-butylbenzene	16.072	105	1229242	102.25	ug/L	99
109) 1,3-dichlorobenzene	16.266	146	555296	91.68	ug/L	99
110) p-isopropyltoluene	16.193	119	1019628	99.12	ug/L	100
111) 1,4-dichlorobenzene	16.350	146	558653	90.00	ug/L	99
112) 1,2-dichlorobenzene	16.733	146	553481	91.82	ug/L	100
113) n-butylbenzene	16.596	92	563199	95.79	ug/L	99
114) 1,2-dibromo-3-chloropr...	17.477	75	51494	94.79	ug/L	97
115) 1,3,5-TRICHLOROBENZENE	17.629	180	564633	96.18	ug/L	100
116) 1,2,4-trichlorobenzene	18.211	180	528349	94.12	ug/L	99
117) hexachlorobutadiene	18.300	225	289340	100.95	ug/L	99
118) naphthalene	18.468	128	1037769	87.18	ug/L	100
119) 1,2,3-trichlorobenzene	18.694	180	493208	93.99	ug/L	99
120) hexachloroethane	16.969	119	221488	105.11	ug/L	99
121) Benzyl chloride	16.471	91	501621	105.82	ug/L	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

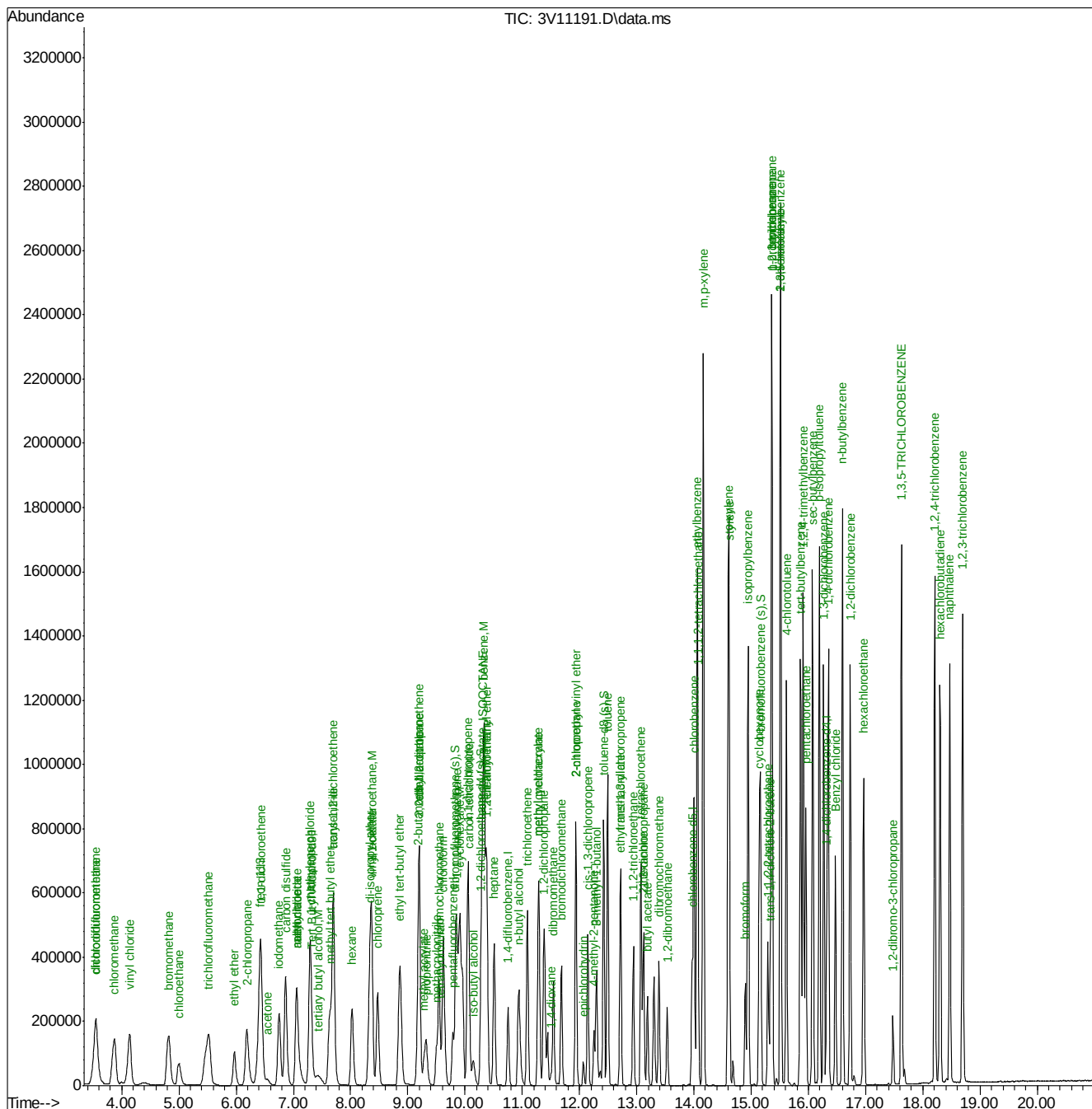
7.6.21

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 3V11191.D
 Acq On : 22 May 2014 1:54 pm
 Operator : thienn
 Sample : ic474-100
 Misc : MS65178,V3V474,5,,,,,1
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 22 17:05:33 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M3V474.M
 Quant Title : SW-846 Method 8260
 QLast Update : Thu May 22 08:28:30 2014
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 3V11192.D
 Acq On : 22 May 2014 2:21 pm
 Operator : thienn
 Sample : ic474-200
 Misc : MS65178,V3V474,5,,,,,1
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 22 17:05:38 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M3V474.M
 Quant Title : SW-846 Method 8260
 QLast Update : Thu May 22 08:28:30 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	7.301	65	95252	500.00	ug/L	-0.01
5) pentafluorobenzene	9.786	168	176689	50.00	ug/L	0.00
49) 1,4-difluorobenzene	10.750	114	271465	50.00	ug/L	0.00
79) chlorobenzene-d5	13.970	117	257214	50.00	ug/L	0.00
93) 1,4-dichlorobenzene-d4	16.324	152	159325	50.00	ug/L	0.00

System Monitoring Compounds						
43) dibromofluoromethane (s)	9.838	113	455472	194.94	ug/L	0.00
Spiked Amount	50.000	Range	59 - 130	Recovery	=	389.88%#
44) 1,2-dichloroethane-d4 (s)	10.279	65	388372	191.38	ug/L	0.00
Spiked Amount	50.000	Range	65 - 123	Recovery	=	382.76%#
71) toluene-d8 (s)	12.423	98	1383078	195.25	ug/L	0.00
Spiked Amount	50.000	Range	80 - 124	Recovery	=	390.50%#
95) 4-bromofluorobenzene (s)	15.165	95	555030	172.93	ug/L	0.00
Spiked Amount	50.000	Range	71 - 132	Recovery	=	345.86%#

Target Compounds					Qvalue	
2) 1,4-dioxane	11.511	88	122829	5028.00	ug/L	98
4) tertiary butyl alcohol	7.432	59	243320	899.94	ug/L	95
6) chlorodifluoromethane	3.557	51	622973	148.88	ug/L	98
7) dichlorodifluoromethane	3.536	85	942009	228.55	ug/L	98
8) chloromethane	3.882	50	929110	221.61	ug/L	99
9) vinyl chloride	4.144	62	981699	230.09	ug/L	99
10) bromomethane	4.826	94	499925	181.60	ug/L	100
11) chloroethane	5.004	64	265552	190.07	ug/L	98
12) trichlorofluoromethane	5.518	101	1001629	223.54	ug/L	99
13) ethyl ether	5.969	74	190214	217.86	ug/L	97
14) 2-chloropropane	6.189	43	672734	197.96	ug/L	99
16) 1,1-dichloroethene	6.435	96	463885	186.95	ug/L	96
17) acetone	6.546	43	116789	178.37	ug/L	91
18) allyl chloride	7.054	76	213332	202.36	ug/L	98
19) acetonitrile	7.070	40	275206	2021.17	ug/L	97
20) iodomethane	6.750	142	1056962	205.86	ug/L	99
21) iso-butyl alcohol	10.148	41	126378	1967.85	ug/L	98
22) carbon disulfide	6.865	76	1818526	190.86	ug/L	99
23) methylene chloride	7.290	84	526481	172.95	ug/L	97
24) 1-chloropropane	7.306	42	631208	170.73	ug/L	99
25) methyl acetate	7.059	74	48906	195.92	ug/L	100
26) methyl tert butyl ether	7.647	73	1242001	205.48	ug/L	99
27) trans-1,2-dichloroethene	7.699	96	482414	183.00	ug/L	97
28) di-isopropyl ether	8.339	45	1291666	209.21	ug/L	99
29) ethyl tert-butyl ether	8.863	59	1358609	220.94	ug/L	99
30) 2-butanone	9.183	72	43129	214.85	ug/L	84
31) 1,1-dichloroethane	8.365	63	818562	199.69	ug/L	99
32) chloroprene	8.475	53	544625	216.77	ug/L	97
33) acrylonitrile	7.699	53	555224	992.52	ug/L	99
34) vinyl acetate	8.370	86	47795	222.09	ug/L	95
35) ethyl acetate	9.199	45	36666	191.92	ug/L	74
36) 2,2-dichloropropane	9.188	77	816645	207.37	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 3V11192.D
 Acq On : 22 May 2014 2:21 pm
 Operator : thienn
 Sample : ic474-200
 Misc : MS65178,V3V474,5,,,,1
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 22 17:05:38 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M3V474.M
 Quant Title : SW-846 Method 8260
 QLast Update : Thu May 22 08:28:30 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) cis-1,2-dichloroethene	9.199	96	538565	180.86	ug/L	99
38) propionitrile	9.324	54	474762	1986.59	ug/L	92
39) methyl acrylate	9.282	55	323282	202.33	ug/L #	100
40) bromochloromethane	9.545	128	259023	221.92	ug/L	97
41) tetrahydrofuran	9.571	42	98205	188.62	ug/L	97
42) chloroform	9.618	83	849121	194.10	ug/L	99
45) freon 113	6.415	151	415815	211.28	ug/L	98
46) methacrylonitrile	9.503	41	162136	206.06	ug/L	99
47) 1,1,1-trichloroethane	9.859	97	822910	210.40	ug/L	99
48) tert-amyl methyl ether	10.373	73	1331416	217.02	ug/L	99
50) epichlorohydrin	12.066	57	145516	1011.94	ug/L	98
51) n-butyl alcohol	10.939	56	599197	10195.65	ug/L	97
52) cyclohexane	9.912	84	737777	204.30	ug/L	97
53) carbon tetrachloride	10.064	117	753122	206.20	ug/L	99
54) 1,1-dichloropropene	10.048	75	597637	207.66	ug/L	100
55) hexane	8.024	57	441220	187.11	ug/L	97
56) ISOCTANE	10.315	57	1796210	234.84	ug/L	99
57) benzene	10.331	78	1755044	176.56	ug/L	100
58) heptane	10.509	57	279060	195.81	ug/L	98
59) isopropyl acetate	10.294	43	782185	198.32	ug/L	100
60) 1,2-dichloroethane	10.378	62	503992	203.61	ug/L	99
61) trichloroethene	11.091	95	468452	203.03	ug/L	99
63) 2-nitropropane	11.935	43	554107	199.16	ug/L	99
64) 2-chloroethyl vinyl ether	11.935	63	838227	1097.89	ug/L	99
65) methyl methacrylate	11.291	41	278426	200.70	ug/L	92
66) 1,2-dichloropropane	11.374	63	437870	202.75	ug/L	99
67) methylcyclohexane	11.291	83	767965	209.24	ug/L	99
68) dibromomethane	11.542	93	272419	208.09	ug/L	99
69) bromodichloromethane	11.684	83	601259	213.57	ug/L	99
70) cis-1,3-dichloropropene	12.145	75	679980	220.77	ug/L	99
72) 4-methyl-2-pentanone	12.250	58	125538	207.15	ug/L	99
73) toluene	12.496	92	1009670	185.27	ug/L	100
74) 3-methyl-1-butanol	12.297	70	214736	4279.85	ug/L	98
75) trans-1,3-dichloropropene	12.722	75	573058	211.55	ug/L	98
76) ethyl methacrylate	12.711	69	409505	218.16	ug/L	99
77) 1,1,2-trichloroethane	12.942	83	301090	210.41	ug/L	99
78) 2-hexanone	13.115	58	118777	213.15	ug/L	93
80) tetrachloroethene	13.078	166	503789	198.42	ug/L	98
81) 1,3-dichloropropane	13.120	76	519340	191.43	ug/L	99
82) butyl acetate	13.188	56	186723	190.09	ug/L	100
83) dibromochloromethane	13.388	129	493353	212.47	ug/L	97
84) 1,2-dibromoethane	13.535	107	374051	199.44	ug/L	98
86) chlorobenzene	14.001	112	1226795	185.97	ug/L	99
87) 1,1,1,2-tetrachloroethane	14.069	131	546084	218.78	ug/L	99
88) ethylbenzene	14.054	91	2089740	193.49	ug/L	100
89) m,p-xylene	14.164	106	1583853	365.69	ug/L	96
90) o-xylene	14.599	106	855931	185.34	ug/L	98
91) styrene	14.615	104	1313921	203.58	ug/L	100
92) bromoform	14.898	173	353502	209.21	ug/L	99
94) isopropylbenzene	14.950	105	2307136	198.95	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 3V11192.D
Acq On : 22 May 2014 2:21 pm
Operator : thienn
Sample : ic474-200
Misc : MS65178,V3V474,5,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 22 17:05:38 2014
Quant Method : C:\MSDCHEM\1\METHODS\M3V474.M
Quant Title : SW-846 Method 8260
QLast Update : Thu May 22 08:28:30 2014
Response via : Initial Calibration

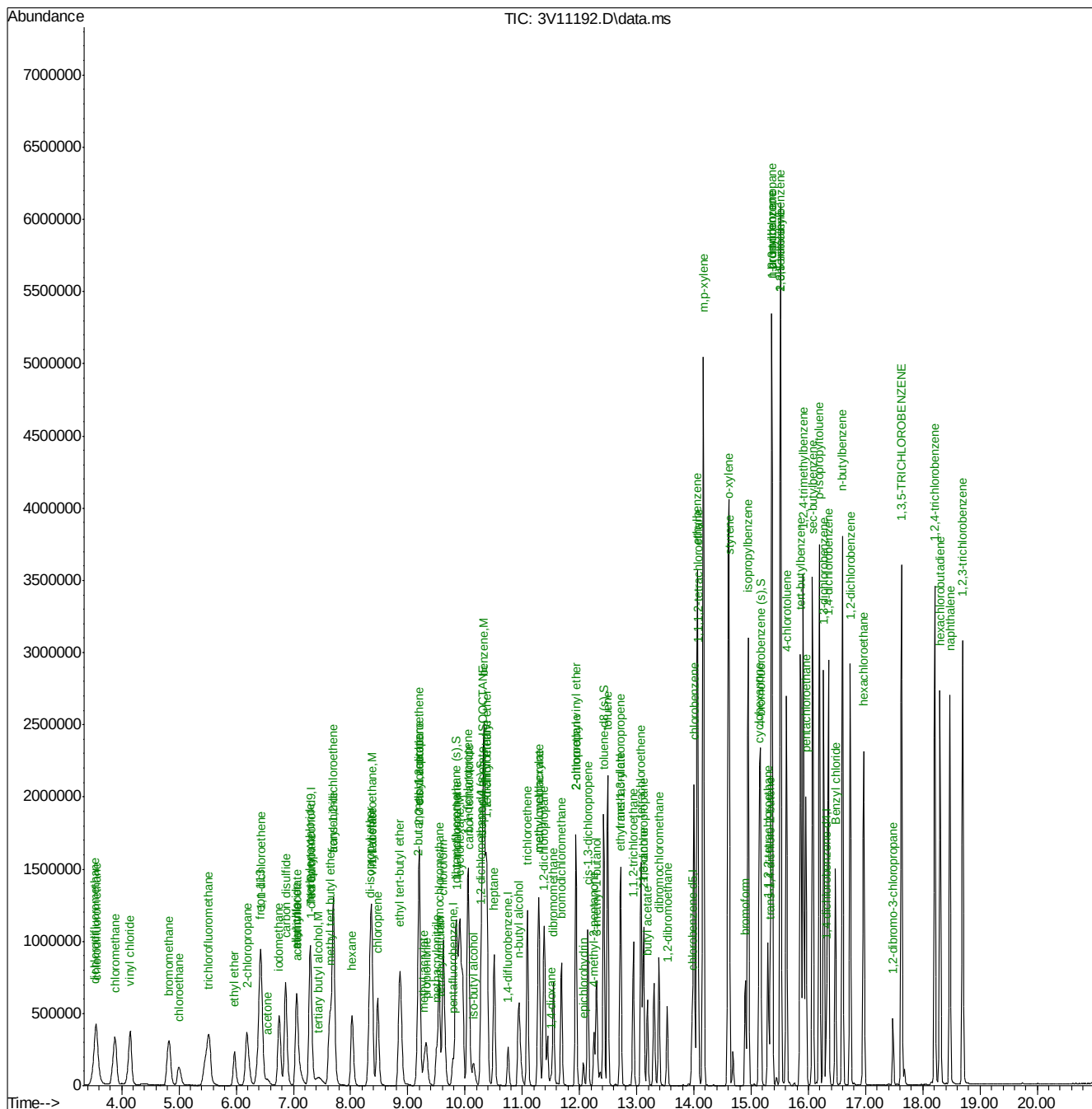
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
96) bromobenzene	15.359	156	593579	192.69	ug/L	100
97) cyclohexanone	15.144	55	858508	2074.67	ug/L	99
98) 1,1,2,2-tetrachloroethane	15.291	83	556603	192.05	ug/L	99
99) trans-1,4-dichloro-2-b...	15.333	53	121307	216.44	ug/L	99
100) 1,2,3-trichloropropane	15.364	110	113885	194.13	ug/L	95
101) n-propylbenzene	15.364	91	2587967	179.21	ug/L	99
102) 2-chlorotoluene	15.516	126	573214	193.07	ug/L	95
103) 4-chlorotoluene	15.616	91	1592047	187.11	ug/L	99
104) 1,3,5-trimethylbenzene	15.516	105	2044182	191.69	ug/L	99
105) tert-butylbenzene	15.862	119	1653757	223.72	ug/L	98
106) pentachloroethane	15.957	167	441224	229.09	ug/L	97
107) 1,2,4-trimethylbenzene	15.910	105	2000846	146.00	ug/L	100
108) sec-butylbenzene	16.077	105	2749372	210.62	ug/L	99
109) 1,3-dichlorobenzene	16.266	146	1218037	185.20	ug/L	99
110) p-isopropyltoluene	16.193	119	2267597	203.00	ug/L	100
111) 1,4-dichlorobenzene	16.350	146	1208826	179.35	ug/L	100
112) 1,2-dichlorobenzene	16.733	146	1229733	187.88	ug/L	100
113) n-butylbenzene	16.596	92	1210095	189.55	ug/L	100
114) 1,2-dibromo-3-chloropr...	17.477	75	111934	189.77	ug/L	98
115) 1,3,5-TRICHLOROBENZENE	17.629	180	1215099	190.62	ug/L	100
116) 1,2,4-trichlorobenzene	18.211	180	1123662	184.34	ug/L	100
117) hexachlorobutadiene	18.300	225	621549	199.71	ug/L	99
118) naphthalene	18.473	128	2162096	167.27	ug/L	100
119) 1,2,3-trichlorobenzene	18.694	180	1040811	182.67	ug/L	100
120) hexachloroethane	16.969	119	530913	232.02	ug/L	100
121) Benzyl chloride	16.471	91	1078567	209.54	ug/L	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 3V11192.D
 Acq On : 22 May 2014 2:21 pm
 Operator : thienn
 Sample : ic474-200
 Misc : MS65178,V3V474,5,,,,,1
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 22 17:05:38 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M3V474.M
 Quant Title : SW-846 Method 8260
 QLast Update : Thu May 22 08:28:30 2014
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 3V11195.D
 Acq On : 22 May 2014 3:41 pm
 Operator : thienn
 Sample : icv474-50
 Misc : MS65178,V3V474,5,,,,,1
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 29 12:55:52 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M3V474.M
 Quant Title : SW-846 Method 8260
 QLast Update : Thu May 29 12:53:16 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	7.295	65	87793	500.00	ug/L	-0.01
5) pentafluorobenzene	9.786	168	164759	50.00	ug/L	0.00
49) 1,4-difluorobenzene	10.751	114	249473	50.00	ug/L	0.00
79) chlorobenzene-d5	13.970	117	234639	50.00	ug/L	0.00
93) 1,4-dichlorobenzene-d4	16.324	152	152516	50.00	ug/L	0.00
System Monitoring Compounds						
43) dibromofluoromethane (s)	9.833	113	96963	46.51	ug/L	0.00
Spiked Amount 50.000	Range 59 - 130		Recovery =	93.02%		
44) 1,2-dichloroethane-d4 (s)	10.279	65	84449	46.27	ug/L	0.00
Spiked Amount 50.000	Range 65 - 123		Recovery =	92.54%		
71) toluene-d8 (s)	12.423	98	298354	48.29	ug/L	0.00
Spiked Amount 50.000	Range 80 - 124		Recovery =	96.58%		
95) 4-bromofluorobenzene (s)	15.165	95	123408	46.15	ug/L	0.00
Spiked Amount 50.000	Range 71 - 132		Recovery =	92.30%		
Target Compounds						
2) 1,4-dioxane	11.511	88	30823	1377.42	ug/L	98
4) tertiary butyl alcohol	7.437	59	60753	258.35	ug/L	94
6) chlorodifluoromethane	3.552	51	128486	39.67	ug/L	98
7) dichlorodifluoromethane	3.536	85	227686	52.02	ug/L	100
8) chloromethane	3.866	50	196032	52.04	ug/L	99
9) vinyl chloride	4.129	62	214682	52.94	ug/L	97
10) bromomethane	4.815	94	126333	49.07	ug/L	99
11) chloroethane	4.994	64	68963	51.53	ug/L	100
12) trichlorofluoromethane	5.513	101	233472	52.30	ug/L	100
13) ethyl ether	5.964	74	42268	51.04	ug/L	97
14) 2-chloropropane	6.189	43	153693	48.04	ug/L	100
15) acrolein	6.289	56	159795	482.48	ug/L	98
16) 1,1-dichloroethene	6.436	96	106131	47.58	ug/L	97
17) acetone	6.546	43	20853	35.76	ug/L	93
18) allyl chloride	7.054	76	55718	54.64	ug/L	95
19) acetonitrile	7.065	40	71418	495.73	ug/L	92
20) iodomethane	6.750	142	230355	49.45	ug/L	99
21) iso-butyl alcohol	10.148	41	30825	488.25	ug/L	99
22) carbon disulfide	6.860	76	418204	50.81	ug/L	100
23) methylene chloride	7.290	84	118252	45.15	ug/L	98
24) 1-chloropropane	7.301	42	150113	42.11	ug/L	99
25) methyl acetate	7.054	74	10449	44.89	ug/L	95
26) methyl tert butyl ether	7.641	73	542019	101.03	ug/L	99
27) trans-1,2-dichloroethene	7.699	96	108416	45.93	ug/L	99
28) di-isopropyl ether	8.339	45	295668	52.45	ug/L	96
29) ethyl tert-butyl ether	8.858	59	296879	52.51	ug/L	99
30) 2-butanone	9.188	72	8594	46.80	ug/L	99
31) 1,1-dichloroethane	8.365	63	188359	52.11	ug/L	98
32) chloroprene	8.475	53	112295	47.08	ug/L	98
33) acrylonitrile	7.704	53	130463	245.61	ug/L	96
34) vinyl acetate	8.370	86	11450	55.80	ug/L	98
35) ethyl acetate	9.204	45	8727	48.16	ug/L	83

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 3V11195.D
 Acq On : 22 May 2014 3:41 pm
 Operator : thienn
 Sample : icv474-50
 Misc : MS65178,V3V474,5,,,,1
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 29 12:55:52 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M3V474.M
 Quant Title : SW-846 Method 8260
 QLast Update : Thu May 29 12:53:16 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
36) 2,2-dichloropropane	9.188	77	188000	51.41	ug/L	98
37) cis-1,2-dichloroethene	9.199	96	118621	44.07	ug/L	98
38) propionitrile	9.319	54	110392	470.53	ug/L	95
39) methyl acrylate	9.288	55	72513	47.25	ug/L #	99
40) bromochloromethane	9.539	128	55867	50.33	ug/L	96
41) tetrahydrofuran	9.576	42	23053	47.04	ug/L	99
42) chloroform	9.613	83	190423	48.50	ug/L	99
45) freon 113	6.409	151	97927	49.21	ug/L	97
46) methacrylonitrile	9.503	41	35728	46.93	ug/L	98
47) 1,1,1-trichloroethane	9.854	97	188535	51.59	ug/L	99
48) tert-amyl methyl ether	10.373	73	286969	50.81	ug/L	98
50) epichlorohydrin	12.067	57	32450	233.39	ug/L	98
51) n-butyl alcohol	10.934	56	143888	2569.31	ug/L	99
52) cyclohexane	9.912	84	164393	50.53	ug/L	98
53) carbon tetrachloride	10.064	117	170719	51.77	ug/L	98
54) 1,1-dichloropropene	10.048	75	126880	48.98	ug/L	99
55) hexane	8.029	57	136461	66.20	ug/L	96
56) ISOCTANE	10.315	57	350561	47.73	ug/L	98
57) benzene	10.331	78	390462	50.22	ug/L	99
58) heptane	10.509	57	80850	64.31	ug/L	96
59) isopropyl acetate	10.294	43	189882	51.74	ug/L	99
60) 1,2-dichloroethane	10.373	62	110291	50.57	ug/L	99
61) trichloroethene	11.091	95	103616	51.05	ug/L	98
63) 2-nitropropane	11.935	43	141379	54.48	ug/L	99
64) 2-chloroethyl vinyl ether	11.935	63	215367	302.12	ug/L	99
65) methyl methacrylate	11.280	41	87388	67.83	ug/L	86
66) 1,2-dichloropropane	11.374	63	96951	51.86	ug/L	97
67) methylcyclohexane	11.285	83	170009	50.78	ug/L	95
68) dibromomethane	11.542	93	59895	50.96	ug/L	100
69) bromodichloromethane	11.684	83	130671	52.56	ug/L	99
70) cis-1,3-dichloropropene	12.145	75	143017	51.73	ug/L	97
72) 4-methyl-2-pentanone	12.250	58	28503	49.64	ug/L	98
73) toluene	12.491	92	222397	49.01	ug/L	99
74) 3-methyl-1-butanol	12.297	70	49651	1016.47	ug/L	97
75) trans-1,3-dichloropropene	12.722	75	118690	50.47	ug/L	99
76) ethyl methacrylate	12.711	69	86177	49.19	ug/L	98
77) 1,1,2-trichloroethane	12.942	83	64329	50.62	ug/L	99
78) 2-hexanone	13.115	58	24605	46.92	ug/L	93
80) tetrachloroethene	13.078	166	110519	50.76	ug/L	97
81) 1,3-dichloropropane	13.120	76	111254	50.49	ug/L	99
82) butyl acetate	13.189	56	44488	48.97	ug/L	100
83) dibromochloromethane	13.388	129	101096	50.13	ug/L	99
84) 1,2-dibromoethane	13.535	107	79127	50.25	ug/L	97
86) chlorobenzene	14.001	112	268424	50.76	ug/L	100
87) 1,1,1,2-tetrachloroethane	14.069	131	111913	51.65	ug/L	98
88) ethylbenzene	14.054	91	453548	49.21	ug/L	100
89) m,p-xylene	14.164	106	353565	97.88	ug/L	99
90) o-xylene	14.599	106	186274	53.10	ug/L	100
91) styrene	14.615	104	288539	53.88	ug/L	99
92) bromoform	14.898	173	73208	49.71	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 3V11195.D
 Acq On : 22 May 2014 3:41 pm
 Operator : thienn
 Sample : icv474-50
 Misc : MS65178,V3V474,5,,,,1
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 29 12:55:52 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M3V474.M
 Quant Title : SW-846 Method 8260
 QLast Update : Thu May 29 12:53:16 2014
 Response via : Initial Calibration

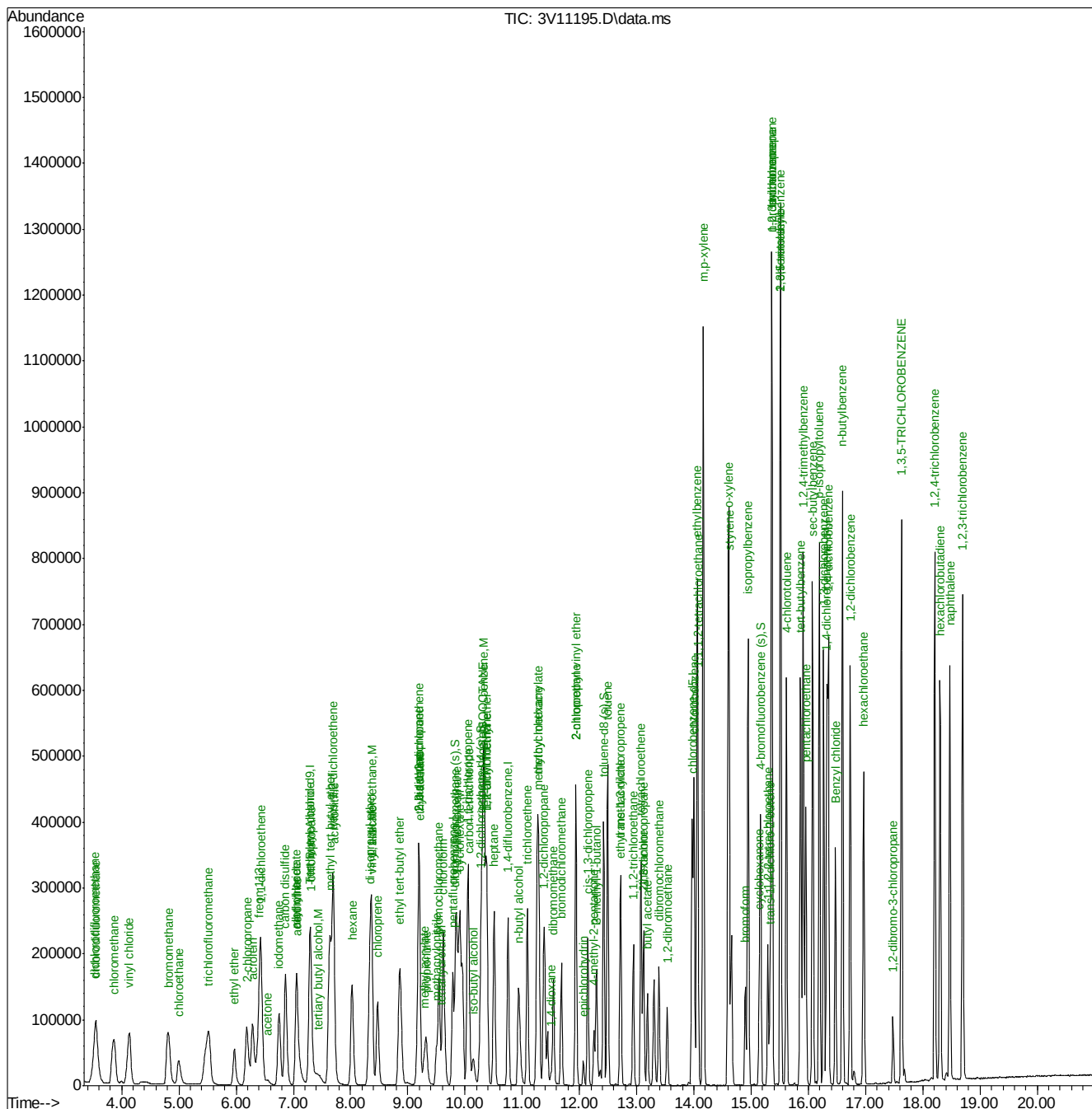
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94)	isopropylbenzene	14.945	105	496313	51.49	ug/L	99
96)	bromobenzene	15.359	156	131620	49.50	ug/L	99
97)	cyclohexanone	15.144	55	67987	181.45	ug/L	97
98)	1,1,2,2-tetrachloroethane	15.291	83	116808	46.91	ug/L	98
99)	trans-1,4-dichloro-2-b...	15.333	53	25756	46.31	ug/L	94
100)	1,2,3-trichloropropane	15.364	110	25136	46.88	ug/L	98
101)	n-propylbenzene	15.364	91	621639	53.47	ug/L	100
102)	2-chlorotoluene	15.516	126	127703	51.09	ug/L	100
103)	4-chlorotoluene	15.616	91	356261	49.45	ug/L	100
104)	1,3,5-trimethylbenzene	15.516	105	434516	51.98	ug/L	100
105)	tert-butylbenzene	15.863	119	346597	50.40	ug/L	97
106)	pentachloroethane	15.957	167	91246	50.93	ug/L	97
107)	1,2,4-trimethylbenzene	15.910	105	466226	52.74	ug/L	99
108)	sec-butylbenzene	16.072	105	591584	51.60	ug/L	100
109)	1,3-dichlorobenzene	16.266	146	273449	48.56	ug/L	100
110)	p-isopropyltoluene	16.193	119	501601	52.90	ug/L	99
111)	1,4-dichlorobenzene	16.350	146	273581	48.14	ug/L	99
112)	1,2-dichlorobenzene	16.733	146	270954	48.72	ug/L	99
113)	n-butylbenzene	16.597	92	285819	52.76	ug/L	100
114)	1,2-dibromo-3-chloropr...	17.477	75	24799	44.45	ug/L	99
115)	1,3,5-TRICHLOROBENZENE	17.629	180	285142	51.24	ug/L	100
116)	1,2,4-trichlorobenzene	18.211	180	265816	51.01	ug/L	98
117)	hexachlorobutadiene	18.301	225	138487	51.04	ug/L	99
118)	naphthalene	18.474	128	499992	48.14	ug/L	100
119)	1,2,3-trichlorobenzene	18.694	180	247636	50.83	ug/L	99
120)	hexachloroethane	16.969	119	102920	50.23	ug/L	99
121)	Benzyl chloride	16.471	91	258883	52.54	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

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Data Path   : C:\msdchem\1\DATA\  
Data File  : 3V11195.D  
Acq On     : 22 May 2014    3:41 pm  
Operator   : thienn  
Sample     : icv474-50  
Misc       : MS65178,V3V474,5,,,,,1  
ALS Vial   : 14    Sample Multiplier: 1
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Quant Time: May 29 12:55:52 2014
Quant Method : C:\MSDCHEM\1\METHODS\M3V474.M
Quant Title : SW-846 Method 8260
QLast Update : Thu May 29 12:53:16 2014
Response via : Initial Calibration



7.6.23

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 3V11270.D
 Acq On : 29 May 2014 9:19 am
 Operator : thienn
 Sample : cc474-20
 Misc : MS68177,V3V478,5,,,,,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 30 14:00:50 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M3V474.M
 Quant Title : SW-846 Method 8260
 QLast Update : Thu May 29 12:53:16 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	7.300	65	93695	500.00	ug/L	# 0.00
5) pentafluorobenzene	9.780	168	168725	50.00	ug/L	0.00
49) 1,4-difluorobenzene	10.745	114	248684	50.00	ug/L	0.00
79) chlorobenzene-d5	13.964	117	226288	50.00	ug/L	0.00
93) 1,4-dichlorobenzene-d4	16.324	152	146904	50.00	ug/L	0.00
System Monitoring Compounds						
43) dibromofluoromethane (s)	9.828	113	115051	53.89	ug/L	0.00
Spiked Amount 50.000	Range 59 - 130		Recovery =	107.78%		
44) 1,2-dichloroethane-d4 (s)	10.278	65	97123	51.96	ug/L	0.00
Spiked Amount 50.000	Range 65 - 123		Recovery =	103.92%		
71) toluene-d8 (s)	12.418	98	355418	57.71	ug/L	0.00
Spiked Amount 50.000	Range 80 - 124		Recovery =	115.42%		
95) 4-bromofluorobenzene (s)	15.165	95	150245	58.33	ug/L	0.00
Spiked Amount 50.000	Range 71 - 132		Recovery =	116.66%		
Target Compounds						
2) 1,4-dioxane	11.505	88	12753	534.01	ug/L	# 99
4) tertiary butyl alcohol	7.426	59	27535	109.71	ug/L	95
6) chlorodifluoromethane	3.552	51	67785	17.84	ug/L	99
7) dichlorodifluoromethane	3.536	85	97831	21.83	ug/L	100
8) chloromethane	3.861	50	81926	21.24	ug/L	99
9) vinyl chloride	4.128	62	87765	21.13	ug/L	98
10) bromomethane	4.805	94	56514	21.43	ug/L	97
11) chloroethane	4.999	64	30456	22.22	ug/L	99
12) trichlorofluoromethane	5.502	101	97754	21.38	ug/L	96
13) ethyl ether	5.963	74	18874	22.25	ug/L	99
14) 2-chloropropane	6.184	43	74692	22.80	ug/L	100
15) acrolein	6.289	56	56072	165.32	ug/L	98
16) 1,1-dichloroethene	6.430	96	49661	21.74	ug/L	94
17) acetone	6.545	43	13112	21.96	ug/L	95
18) allyl chloride	7.054	76	22574	21.62	ug/L	99
19) acetonitrile	7.064	40	31860	215.95	ug/L	97
20) iodomethane	6.745	142	107233	22.48	ug/L	99
21) iso-butyl alcohol	10.137	41	14434	223.25	ug/L	97
22) carbon disulfide	6.860	76	198403	23.54	ug/L	99
23) methylene chloride	7.285	84	57318	21.37	ug/L	97
24) 1-chloropropane	7.306	42	79896	21.89	ug/L	97
25) methyl acetate	7.054	74	5164	21.66	ug/L	91
26) methyl tert butyl ether	7.641	73	125885	22.91	ug/L	99
27) trans-1,2-dichloroethene	7.699	96	50959	21.08	ug/L	99
28) di-isopropyl ether	8.333	45	129013	22.35	ug/L	98
29) ethyl tert-butyl ether	8.858	59	129898	22.44	ug/L	98
30) 2-butanone	9.183	72	4310	22.92	ug/L	99
31) 1,1-dichloroethane	8.365	63	87711	23.69	ug/L	98
32) chloroprene	8.470	53	55064	22.54	ug/L	97
33) acrylonitrile	7.699	53	61721	113.46	ug/L	99
34) vinyl acetate	8.365	86	4527	21.54	ug/L	74
35) ethyl acetate	9.198	45	3884	20.93	ug/L	68

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 3V11270.D
 Acq On : 29 May 2014 9:19 am
 Operator : thienn
 Sample : cc474-20
 Misc : MS68177,V3V478,5,,,,,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 30 14:00:50 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M3V474.M
 Quant Title : SW-846 Method 8260
 QLast Update : Thu May 29 12:53:16 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
36) 2,2-dichloropropane	9.177	77	87587	23.39	ug/L	98
37) cis-1,2-dichloroethene	9.198	96	53760	19.51	ug/L	98
38) propionitrile	9.314	54	52338	217.84	ug/L	90
39) methyl acrylate	9.282	55	33712	21.45	ug/L #	98
40) bromochloromethane	9.539	128	25698	22.61	ug/L	93
41) tetrahydrofuran	9.571	42	11347	22.61	ug/L	97
42) chloroform	9.613	83	86698	21.56	ug/L	98
45) freon 113	6.414	151	43601	21.39	ug/L	98
46) methacrylonitrile	9.497	41	16788	21.53	ug/L	92
47) 1,1,1-trichloroethane	9.849	97	84815	22.66	ug/L	99
48) tert-amyl methyl ether	10.368	73	126894	21.94	ug/L	96
50) epichlorohydrin	12.066	57	14620	105.49	ug/L	95
51) n-butyl alcohol	10.934	56	62810	1125.11	ug/L	98
52) cyclohexane	9.906	84	79106	24.39	ug/L	95
53) carbon tetrachloride	10.058	117	79006	24.04	ug/L	96
54) 1,1-dichloropropene	10.043	75	60267	23.34	ug/L	100
55) hexane	8.024	57	47728	23.23	ug/L	96
56) ISOCTANE	10.305	57	161869	22.11	ug/L	96
57) benzene	10.326	78	177554	22.91	ug/L	98
58) heptane	10.509	57	30270	24.15	ug/L	99
59) isopropyl acetate	10.289	43	79170	21.64	ug/L	96
60) 1,2-dichloroethane	10.373	62	50411	23.19	ug/L	99
61) trichloroethene	11.086	95	46560	23.01	ug/L	98
63) 2-nitropropane	11.935	43	56972	22.02	ug/L	99
64) 2-chloroethyl vinyl ether	11.935	63	85255	119.98	ug/L	99
65) methyl methacrylate	11.285	41	29889	23.27	ug/L	95
66) 1,2-dichloropropane	11.374	63	42966	23.06	ug/L	98
67) methylcyclohexane	11.285	83	78344	23.47	ug/L	99
68) dibromomethane	11.542	93	26765	22.85	ug/L	95
69) bromodichloromethane	11.678	83	56716	22.89	ug/L	99
70) cis-1,3-dichloropropene	12.145	75	62513	22.68	ug/L	99
72) 4-methyl-2-pentanone	12.250	58	13076	22.84	ug/L	97
73) toluene	12.491	92	98236	21.72	ug/L	98
74) 3-methyl-1-butanol	12.297	70	21731	446.30	ug/L	98
75) trans-1,3-dichloropropene	12.722	75	55090	23.50	ug/L	95
76) ethyl methacrylate	12.711	69	38721	22.17	ug/L	98
77) 1,1,2-trichloroethane	12.937	83	29201	23.05	ug/L	99
78) 2-hexanone	13.115	58	11766	22.51	ug/L	95
80) tetrachloroethene	13.078	166	48515	23.10	ug/L	99
81) 1,3-dichloropropane	13.120	76	50715	23.87	ug/L	97
82) butyl acetate	13.188	56	20662	23.58	ug/L	97
83) dibromochloromethane	13.388	129	45043	23.16	ug/L	99
84) 1,2-dibromoethane	13.534	107	36570	24.08	ug/L	98
86) chlorobenzene	13.996	112	119627	23.45	ug/L	100
87) 1,1,1,2-tetrachloroethane	14.069	131	49091	23.49	ug/L	99
88) ethylbenzene	14.053	91	202329	22.76	ug/L	99
89) m,p-xylene	14.164	106	157267	45.14	ug/L	100
90) o-xylene	14.599	106	79523	23.50	ug/L	97
91) styrene	14.614	104	126092	24.42	ug/L	99
92) bromoform	14.898	173	33827	23.82	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 3V11270.D
 Acq On : 29 May 2014 9:19 am
 Operator : thienn
 Sample : cc474-20
 Misc : MS68177,V3V478,5,,,,,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 30 14:00:50 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M3V474.M
 Quant Title : SW-846 Method 8260
 QLast Update : Thu May 29 12:53:16 2014
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94)	isopropylbenzene	14.945	105	216326	23.30	ug/L	100
96)	bromobenzene	15.359	156	59736	23.32	ug/L	95
97)	cyclohexanone	15.144	55	76080	210.81	ug/L	97
98)	1,1,2,2-tetrachloroethane	15.291	83	57094	23.81	ug/L	100
99)	trans-1,4-dichloro-2-b...	15.333	53	12715	23.74	ug/L	97
100)	1,2,3-trichloropropane	15.359	110	12167	23.56	ug/L	97
101)	n-propylbenzene	15.364	91	265525	23.71	ug/L	100
102)	2-chlorotoluene	15.511	126	58204	24.17	ug/L	97
103)	4-chlorotoluene	15.616	91	161255	23.24	ug/L	99
104)	1,3,5-trimethylbenzene	15.516	105	189006	23.48	ug/L	99
105)	tert-butylbenzene	15.862	119	144700	21.85	ug/L	100
106)	pentachloroethane	15.957	167	37741	21.87	ug/L	99
107)	1,2,4-trimethylbenzene	15.909	105	196415	23.07	ug/L	98
108)	sec-butylbenzene	16.072	105	258443	23.40	ug/L	100
109)	1,3-dichlorobenzene	16.266	146	124158	22.89	ug/L	99
110)	p-isopropyltoluene	16.193	119	217672	23.83	ug/L	99
111)	1,4-dichlorobenzene	16.350	146	123397	22.54	ug/L	99
112)	1,2-dichlorobenzene	16.733	146	122130	22.80	ug/L	99
113)	n-butylbenzene	16.596	92	124558	23.87	ug/L	99
114)	1,2-dibromo-3-chloropr...	17.477	75	11944	22.23	ug/L	92
115)	1,3,5-TRICHLOROBENZENE	17.629	180	120954	22.57	ug/L	99
116)	1,2,4-trichlorobenzene	18.211	180	112442	22.40	ug/L	98
117)	hexachlorobutadiene	18.300	225	59237	22.67	ug/L	100
118)	naphthalene	18.468	128	221628	22.16	ug/L	100
119)	1,2,3-trichlorobenzene	18.694	180	104910	22.36	ug/L	100
120)	hexachloroethane	16.963	119	43166	21.87	ug/L	99
121)	Benzyl chloride	16.470	91	108901	22.94	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

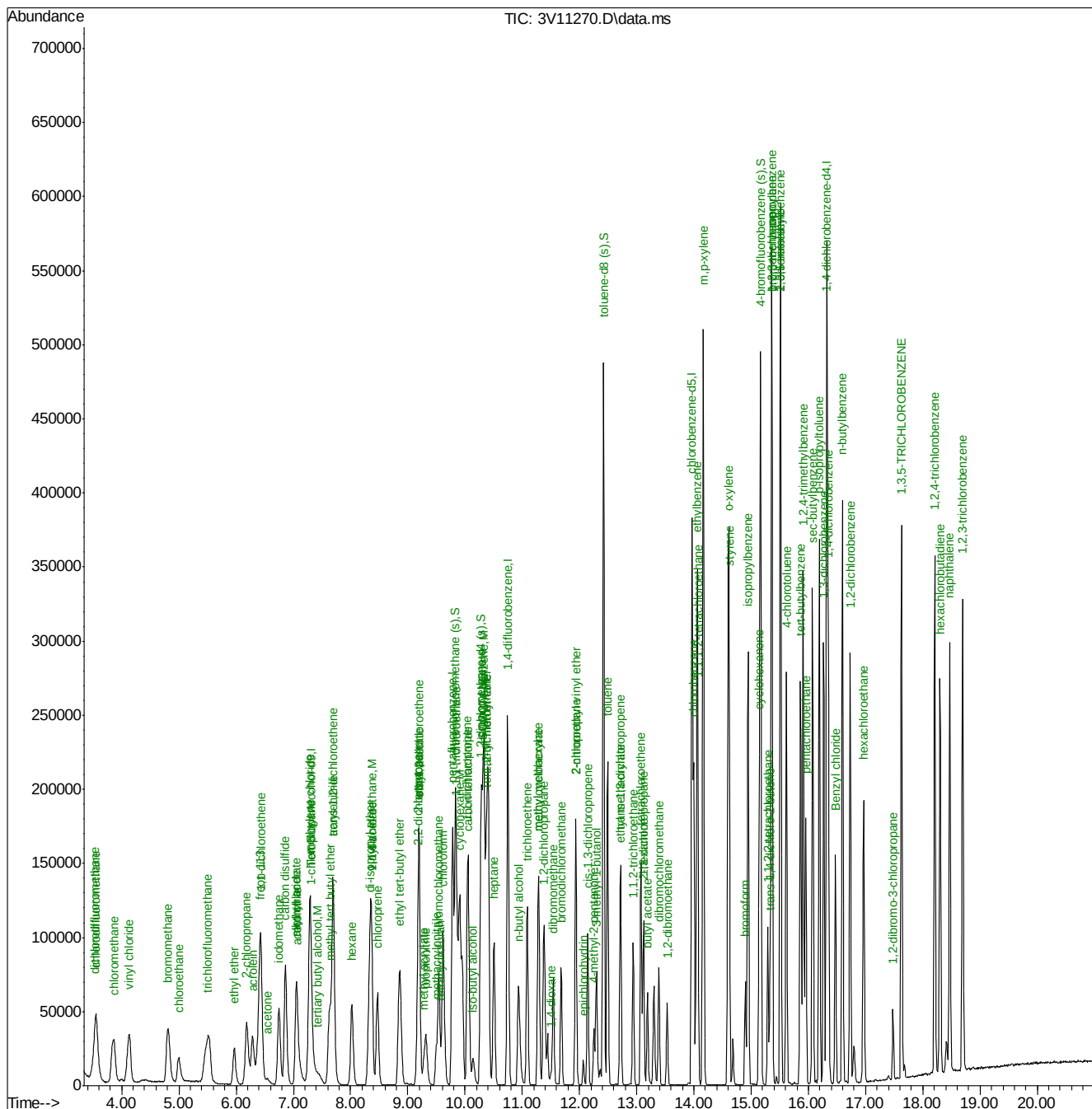
7.6.24

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 3V11270.D
Acq On : 29 May 2014 9:19 am
Operator : thienn
Sample : cc474-20
Misc : MS68177,V3V478,5,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 30 14:00:50 2014
Quant Method : C:\MSDCHEM\1\METHODS\M3V474.M
Quant Title : SW-846 Method 8260
QLast Update : Thu May 29 12:53:16 2014
Response via : Initial Calibration



7.6.24

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 3V11328.D
 Acq On : 31 May 2014 12:52 pm
 Operator : thienn
 Sample : cc474-20
 Misc : MS68313,V3V480,5,,100,5,1
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 02 12:11:13 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M3V474.M
 Quant Title : SW-846 Method 8260
 QLast Update : Thu May 22 15:57:42 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	7.285	65	91379	500.00	ug/L	-0.02
5) pentafluorobenzene	9.781	168	173985	50.00	ug/L	0.00
49) 1,4-difluorobenzene	10.745	114	248596	50.00	ug/L	0.00
79) chlorobenzene-d5	13.965	117	228449	50.00	ug/L	0.00
93) 1,4-dichlorobenzene-d4	16.324	152	140718	50.00	ug/L	0.00
System Monitoring Compounds						
43) dibromofluoromethane (s)	9.828	113	95796	43.51	ug/L	0.00
Spiked Amount 50.000	Range 59 - 130		Recovery =	87.02%		
44) 1,2-dichloroethane-d4 (s)	10.273	65	82512	42.81	ug/L	0.00
Spiked Amount 50.000	Range 65 - 123		Recovery =	85.62%		
71) toluene-d8 (s)	12.418	98	318179	51.68	ug/L	0.00
Spiked Amount 50.000	Range 80 - 124		Recovery =	103.36%		
95) 4-bromofluorobenzene (s)	15.165	95	132407	53.66	ug/L	0.00
Spiked Amount 50.000	Range 71 - 132		Recovery =	107.32%		
Target Compounds						
2) 1,4-dioxane	11.511	88	13048	560.21	ug/L	97
4) tertiary butyl alcohol	7.426	59	26221	107.13	ug/L	96
6) chlorodifluoromethane	3.536	51	81421	21.66	ug/L	96
7) dichlorodifluoromethane	3.526	85	76362	16.52	ug/L	99
8) chloromethane	3.840	50	71569	17.99	ug/L	99
9) vinyl chloride	4.118	62	81279	18.98	ug/L	99
10) bromomethane	4.794	94	49046	18.04	ug/L	98
11) chloroethane	4.983	64	32851	23.24	ug/L	98
12) trichlorofluoromethane	5.502	101	88572	18.79	ug/L	98
13) ethyl ether	5.958	74	17053	19.50	ug/L	95
14) 2-chloropropane	6.173	43	73037	21.62	ug/L	98
15) acrolein	6.278	56	79329	226.82	ug/L	98
16) 1,1-dichloroethene	6.425	96	46109	19.57	ug/L	94
17) acetone	6.530	43	10678	17.34	ug/L	97
18) allyl chloride	7.044	76	21836	20.28	ug/L	98
19) acetonitrile	7.059	40	32779	215.46	ug/L	86
20) iodomethane	6.740	142	98448	20.01	ug/L	98
21) iso-butyl alcohol	10.137	41	13578	203.66	ug/L	97
22) carbon disulfide	6.855	76	190515	21.92	ug/L	99
23) methylene chloride	7.280	84	51716	18.70	ug/L	97
24) 1-chloropropane	7.295	42	74700	19.84	ug/L	97
25) methyl acetate	7.049	74	5114	20.80	ug/L	91
26) methyl tert butyl ether	7.631	73	113025	19.95	ug/L	99
27) trans-1,2-dichloroethene	7.689	96	46800	18.78	ug/L	96
28) di-isopropyl ether	8.328	45	129900	21.82	ug/L	98
29) ethyl tert-butyl ether	8.847	59	127854	21.41	ug/L	98
30) 2-butanone	9.178	72	3292	16.98	ug/L	60
31) 1,1-dichloroethane	8.354	63	81218	21.28	ug/L	99
32) chloroprene	8.465	53	54827	21.77	ug/L	98
33) acrylonitrile	7.694	53	56571	100.85	ug/L	97
34) vinyl acetate	8.365	86	4244	19.58	ug/L	90
35) ethyl acetate	9.199	45	3946	20.62	ug/L	71

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 3V11328.D
 Acq On : 31 May 2014 12:52 pm
 Operator : thienn
 Sample : cc474-20
 Misc : MS68313,V3V480,5,,100,5,1
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 02 12:11:13 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M3V474.M
 Quant Title : SW-846 Method 8260
 QLast Update : Thu May 22 15:57:42 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
36) 2,2-dichloropropane	9.178	77	79706	20.64	ug/L	98
37) cis-1,2-dichloroethene	9.193	96	48756	17.16	ug/L	97
38) propionitrile	9.314	54	48801	196.98	ug/L	92
39) methyl acrylate	9.277	55	31291	19.31	ug/L #	97
40) bromochloromethane	9.534	128	22632	19.31	ug/L	92
41) tetrahydrofuran	9.571	42	10317	19.94	ug/L	95
42) chloroform	9.608	83	78068	18.83	ug/L	97
45) freon 113	6.399	151	46305	22.03	ug/L	95
46) methacrylonitrile	9.492	41	15352	19.10	ug/L	91
47) 1,1,1-trichloroethane	9.849	97	79868	20.69	ug/L	99
48) tert-amyl methyl ether	10.368	73	119227	19.99	ug/L	94
50) epichlorohydrin	12.067	57	14456	104.34	ug/L	99
51) n-butyl alcohol	10.934	56	61185	1096.39	ug/L	99
52) cyclohexane	9.901	84	74639	23.02	ug/L	96
53) carbon tetrachloride	10.058	117	72012	21.92	ug/L	100
54) 1,1-dichloropropene	10.038	75	56164	21.76	ug/L	97
55) hexane	8.014	57	50865	24.76	ug/L	99
56) ISOCTANE	10.305	57	165918	22.67	ug/L	99
57) benzene	10.326	78	165593	21.37	ug/L	99
58) heptane	10.504	57	30173	24.08	ug/L	97
59) isopropyl acetate	10.289	43	79133	21.64	ug/L	98
60) 1,2-dichloroethane	10.368	62	45515	20.94	ug/L	100
61) trichloroethene	11.086	95	42663	21.09	ug/L	98
63) 2-nitropropane	11.935	43	63888	24.70	ug/L	96
64) 2-chloroethyl vinyl ether	11.935	63	96905	136.42	ug/L	99
65) methyl methacrylate	11.280	41	30985	24.14	ug/L	93
66) 1,2-dichloropropane	11.369	63	40376	21.67	ug/L	98
67) methylcyclohexane	11.285	83	79747	23.90	ug/L	97
68) dibromomethane	11.542	93	23759	20.29	ug/L	96
69) bromodichloromethane	11.679	83	52060	21.01	ug/L	94
70) cis-1,3-dichloropropene	12.140	75	58403	21.20	ug/L	99
72) 4-methyl-2-pentanone	12.245	58	11844	20.70	ug/L	94
73) toluene	12.491	92	92854	20.53	ug/L	98
74) 3-methyl-1-butanol	12.292	70	20112	413.19	ug/L	96
75) trans-1,3-dichloropropene	12.722	75	50413	21.51	ug/L	96
76) ethyl methacrylate	12.706	69	35072	20.09	ug/L	97
77) 1,1,2-trichloroethane	12.937	83	26741	21.12	ug/L	98
78) 2-hexanone	13.115	58	10493	20.08	ug/L	88
80) tetrachloroethene	13.073	166	44544	21.01	ug/L	97
81) 1,3-dichloropropane	13.120	76	46943	21.88	ug/L	98
82) butyl acetate	13.189	56	19630	22.19	ug/L	96
83) dibromochloromethane	13.388	129	39127	19.93	ug/L	99
84) 1,2-dibromoethane	13.529	107	32693	21.32	ug/L	98
86) chlorobenzene	13.996	112	110063	21.38	ug/L	98
87) 1,1,1,2-tetrachloroethane	14.064	131	44274	20.99	ug/L	98
88) ethylbenzene	14.054	91	192494	21.45	ug/L	98
89) m,p-xylene	14.164	106	147286	41.88	ug/L	99
90) o-xylene	14.594	106	74431	21.79	ug/L	100
91) styrene	14.615	104	115261	22.11	ug/L	100
92) bromoform	14.898	173	28657	19.99	ug/L	93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : 3V11328.D
 Acq On : 31 May 2014 12:52 pm
 Operator : thienn
 Sample : cc474-20
 Misc : MS68313,V3V480,5,,100,5,1
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 02 12:11:13 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M3V474.M
 Quant Title : SW-846 Method 8260
 QLast Update : Thu May 22 15:57:42 2014
 Response via : Initial Calibration

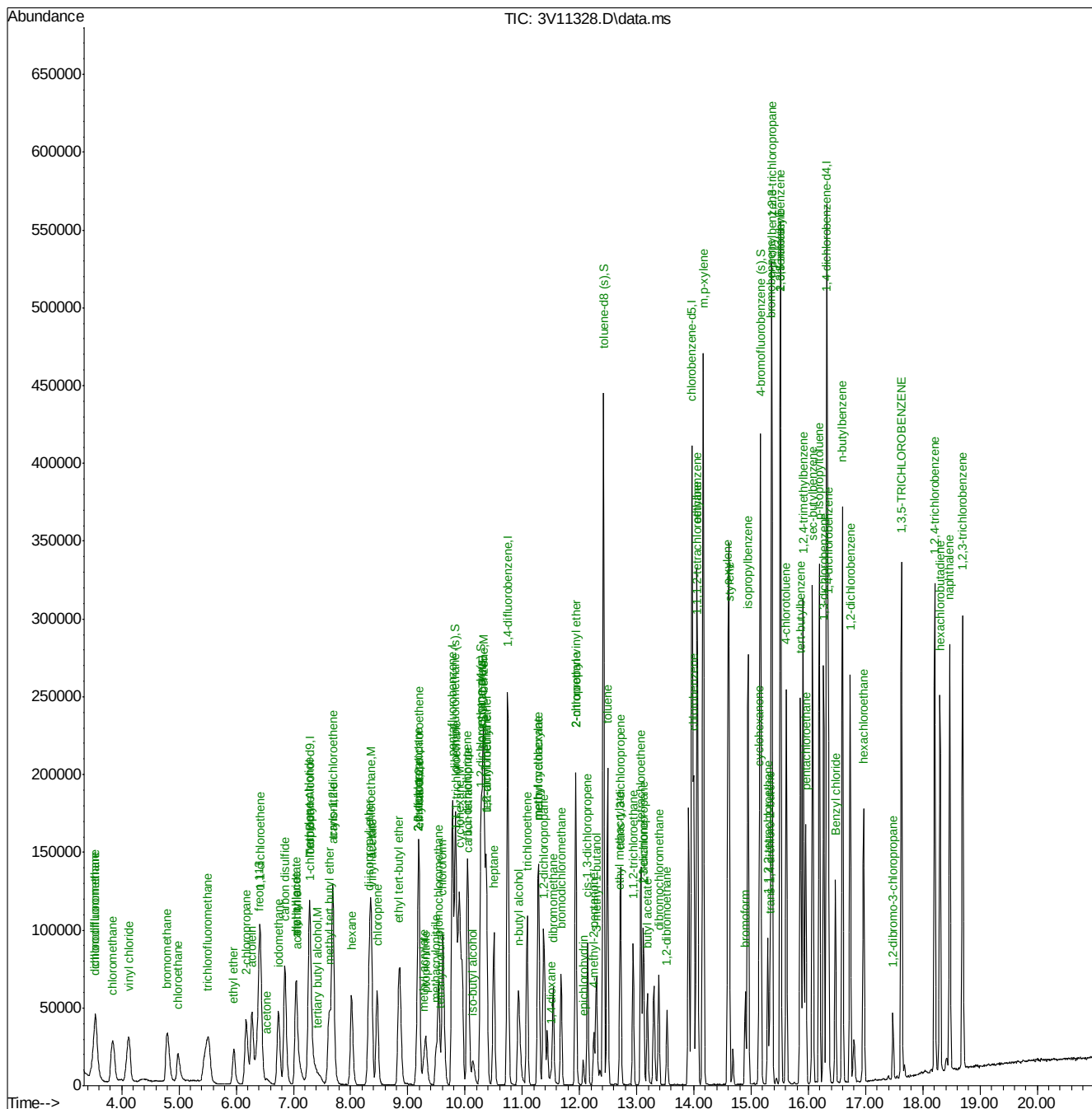
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94)	isopropylbenzene	14.945	105	200327	22.52	ug/L	99
96)	bromobenzene	15.354	156	52948	21.58	ug/L	95
97)	cyclohexanone	15.144	55	50998	147.52	ug/L	96
98)	1,1,2,2-tetrachloroethane	15.291	83	51794	22.54	ug/L	100
99)	trans-1,4-dichloro-2-b...	15.333	53	11241	21.91	ug/L	94
100)	1,2,3-trichloropropane	15.359	110	10558	21.34	ug/L	96
101)	n-propylbenzene	15.364	91	248168	23.14	ug/L	99
102)	2-chlorotoluene	15.511	126	52931	22.95	ug/L	98
103)	4-chlorotoluene	15.611	91	149258	22.45	ug/L	97
104)	1,3,5-trimethylbenzene	15.516	105	176199	22.85	ug/L	99
105)	tert-butylbenzene	15.863	119	132471	20.88	ug/L	99
106)	pentachloroethane	15.957	167	34311	20.76	ug/L	98
107)	1,2,4-trimethylbenzene	15.910	105	178659	21.90	ug/L	100
108)	sec-butylbenzene	16.072	105	241752	22.85	ug/L	99
109)	1,3-dichlorobenzene	16.266	146	110443	21.26	ug/L	99
110)	p-isopropyltoluene	16.193	119	201158	22.99	ug/L	100
111)	1,4-dichlorobenzene	16.350	146	109544	20.89	ug/L	99
112)	1,2-dichlorobenzene	16.733	146	109769	21.39	ug/L	99
113)	n-butylbenzene	16.597	92	115237	23.05	ug/L	98
114)	1,2-dibromo-3-chloropr...	17.477	75	10513	20.43	ug/L	98
115)	1,3,5-TRICHLOROBENZENE	17.629	180	108712	21.17	ug/L	100
116)	1,2,4-trichlorobenzene	18.211	180	100493	20.90	ug/L	98
117)	hexachlorobutadiene	18.301	225	54250	21.67	ug/L	99
118)	naphthalene	18.468	128	201877	21.07	ug/L	99
119)	1,2,3-trichlorobenzene	18.694	180	95879	21.33	ug/L	99
120)	hexachloroethane	16.964	119	39361	20.82	ug/L	98
121)	Benzyl chloride	16.471	91	93778	20.63	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 3V11328.D
Acq On : 31 May 2014 12:52 pm
Operator : thienn
Sample : cc474-20
Misc : MS68313,V3V480,5,,100,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 02 12:11:13 2014
Quant Method : C:\MSDCHEM\1\METHODS\M3V474.M
Quant Title : SW-846 Method 8260
QLast Update : Thu May 22 15:57:42 2014
Response via : Initial Calibration



7.6.25

Date: 5/12/14

 Print Analyst Name: Maicela Delgaulillo
 Analyst Signature: [Signature]

Standard Data		
Lot #	Description	Conc.
128	EXTRA	100ppm
141	B	↓
86	C	↓
228711	ACR	1000ppm
144	PH: 7.0	

Standard Data		
Lot #	Description	Conc.
128	STD A	100ppm
128	B	↓
145	C	↓
138	ACR	1000ppm
123	INT. ONLY	250/250ppm

 Columns: 7.7.1 60x0.25mmx14

 Method: V8800C/
V8260B

 Initial Cal. Method: MIC5716

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

 Supervisor Signature: [Signature]

 Date: 5/27/14

R	Data File	Sample ID	Test	M T X	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	Secondary dilution	L + S	I S U	Status (Data)	Comments	pH < 2
	1C128175	BFB										OK	11:52am	
	128176	IC5716-0.2	V8260B initial cal.	W								OK	1ul A,B,C,AC,Surr/50mL	
	128177	IC5716-0.5										OK	2.5ul A,B,C,AC,Surr/50mL	
	128178	IC5716-1										OK	1ul A,B,C,AC,Surr/100mL	
	128179	IC5716-2										OK	2ul A,B,C,AC,Surr/100mL	
	128180	IC5716-5										OK	5ul A,B,C,AC,Surr/100mL	
	128181	IC5716-10										OK	5ul A,B,C,AC,Surr/50mL	
	128182	IC5716-20										OK	10ul A,B,C,AC + 2.5ul Surr/50mL	
	128183	IC5716-50										OK	2.5ul A,B,C,AC,Surr/50mL	
	128184	IC5716-100										OK	50ul A,B,C,AC,Surr/50mL	
	128185	IC5716-200										OK	100ul A,B,C,AC,Surr/50mL	
	128186	IB												
	128187	IB												
	128188	ICV5716-50										OK	EXT: 2.5ul (A,B,C,AC) + Surr/50mL	
	128189	IB												

MTX = Matrix Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.
 Sample Amt = Volume (ML) or Weight (g); MOH amt. = volume (ul) extract injected * IF pH > 2, comment on sample result.

All strike outs must be initialed, dated and reason code applied as follows: 1 = reviewer correction error; 2 = transcription error;
 3 = computer miscalculation; 4 = analyst's correction error

Form: OR001-9

Rev. Date: 2/14/2007

287

Date: 6/2/14

Print Analyst Name: Robert Stat

Analyst Signature: [Signature]

Standard Data

Lot #	Description	Conc.
V014-1861-27	A	100ppm
V014-1861-34	B	↓
V014-1861-36	C	↓
V014-1861-38	Acrolein	1000ppm
V014-1861-23	8260 I/S	250/2500

Standard Data

Lot #	Description	Conc.
V014-1861-20	Ext A	100ppm
1-19	Ext B	↓
1-25	Ext C	↓
↓-05	Ext Acrolein	1000ppm

Columns: ZB-624C 60m X 0.15mm X 1.4μ

Method V8260C

Initial Cal. Method MIC5716

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [Signature] Date: 6/2/14

R	Data File	Sample ID	Test	M T X	Vial #	ALS #	Samp. Amt (m or g)	MOH amt. (ul)	Secondary dilution	L +	I S	S U	Status (Data)	Comments	pH* <2
	IC128858	BFB				27	5						OK		
	IC128859	CC5716-50				28	5						OK		
	IC128860	IB				29									
	IC128861	MB				30	5						OK		
	IC128862	BS				31	5						OK		
	IC128863	JB67826-2 MS	68191 STAR	G W	2	32	2.5/50		20X				OK		✓
	IC128864	JB67826-2 MSD	↓	↓	2	33	2.5/50		20X				OK		✓
	IC128865	IB				34									
	IC128866	JB67898-3	68246 TCL20	S B	1	35	5		1X				OK		✓
	IC128867	JB67898-4	↓	S B	4	36	5		1X				OK		✓
	IC128868	JB67268-3	68264 TCL20+	S B	2	37	5		1X				OK		✓
	IC128869	JB67896-10	68347 TCL20+	S B	1	38	5		1X				OK		✓
	IC128870	JB68023-12	↓	↓	1	39	5		1X				OK		✓
	IC128871	JB67826-5	68191 STAR	G W	2	40	5		1X				OK		✓
	IC128872	JB67826-3	↓		2	41	20/50		2.5X				OK	RMF	✓
	IC128873	JB67826-2	↓		2	42	2.5/50		20X				OK		✓
	IC128874	JB67826-1	↓	↓	2	43	10/50		5X				OK		✓

HR 6/2/14

MTX = Matrix Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

Sample Amt = Volume (ML) or Weight (g); MOH amt. = volume (ul) extract injected * IF pH > 2, comment on sample result.

All strike outs must be initialed, dated and reason code applied as follows: 1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR001-9

Rev. Date: 2/14/2007

103

Date: 6/2/14

Print Analyst Name: Robert S. S. S.

Analyst Signature: [Signature]

Standard Data		
Lot #	Description	Conc.
	See pg 103	

Standard Data		
Lot #	Description	Conc.
	see pg 103	

Columns: ZB-624 (60m x 0.15mm x 1.4mm)

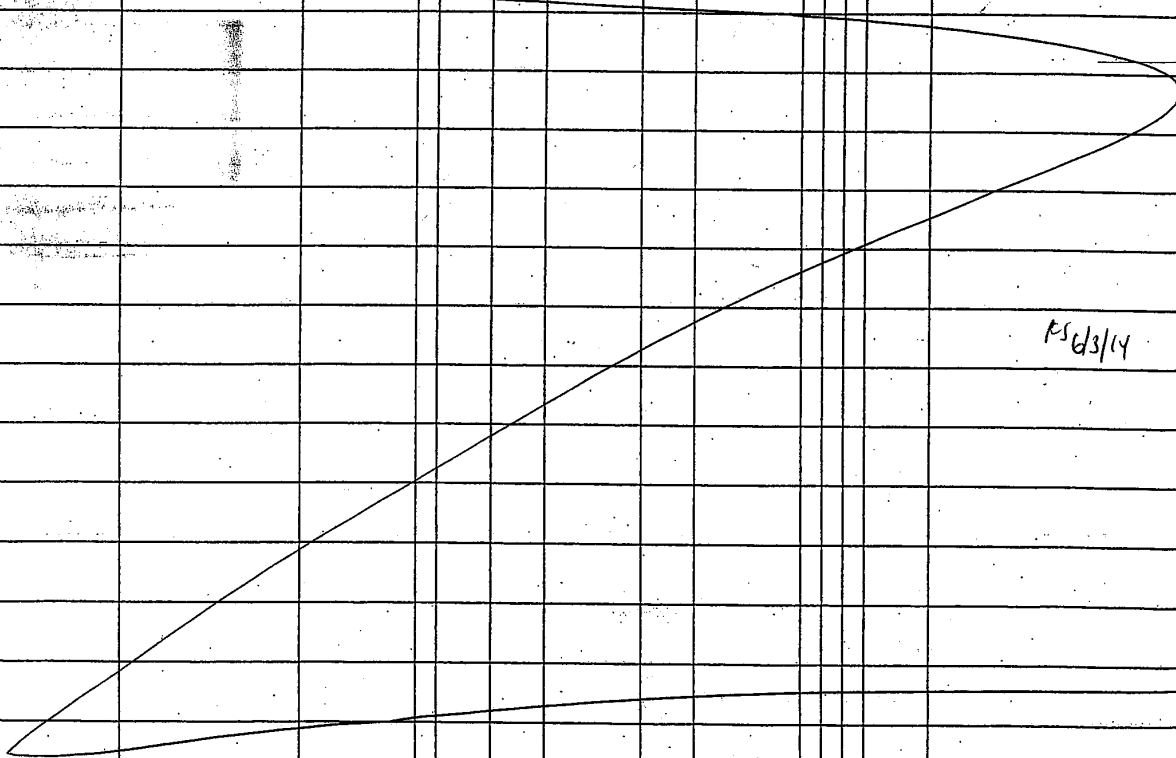
Method v8260C

Initial Cal. Method MIC 5716

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature:

Date: 6/3/14

R	Data File	Sample ID	Test	M T X	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	Secondary dilution	L + S U	Status (Data)	Comments	pH* <2
	1C128875	JB68826-4	68191 STAR	G N	2	44	25/50		2x		✓ On		✓
	1C128876	JB68825-1	↓		2	45	5		1x		✓ H	little foaming	✓
	1C128877	JB68825-2 MH 6/2/14	↓		2	46	20/50		2.5x		✓ 1a	2.5x no foam 6/2/14	✓
													
													PS 6/3/14

MTX = Matrix Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

Sample Amt = Volume (ML) or Weight (g); MOH amt.= volume (ul) extract injected * IF pH > 2, comment on sample result.

All strike outs must be initialed, dated and reason code applied as follows: 1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR001-9

Rev. Date: 2/14/2007

105

Print Analyst Name: TH/EW

Analyst Signature: _____

Date: 5/22/14

Standard Data

Lot #	Description	Conc.
10114-1122-118	A	100 ppm
L 127	B	↓
1181-11	C	↓
1122-138	Bulw	1000
↓ 1246	Swr	100 ✓

Standard Data

Lot #	Description	Conc.
✓ 101-106-06	Ext only	250/1500
101-121	Ext A	100
102-138	Ext B	100
101-12	Ext C	100
1861-05	Ext Arch	1000
113	Ext Hexagonal	100
✓ 102-144	Ext Hexagonal	100

Columns: FB-624 (60m x 0.25mm x 1.4 μ m)

Method VR260 c (soil)

Initial Cal. Method *M3V474*

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: D. Bates

Date: 5/29/14

[illegible]

MTX = Matrix Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.

Sample Amt = Volume (ML) or Weight (g); MOH amt.= volume (ul) extract injected * IF pH > 2, comment on sample result.

All strike outs must be initialed, dated and reason code applied as follows: 1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR001-9

Rev. Date: 2/14/2007

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ACCUTEST.

VOLATILE ANALYSIS LOG

Batch ID: V3V478

Print Analyst Name: JH En

Analyst Signature: [Signature]

Columns: 28-64 / 60m x 0.25mm x 1µm

Method: 18260e

Initial Cal. Method: M3V474

Date: 5/29/14

Standard Data

Lot #	Description	Conc.
V3V478-114	A	100 ppm
↓ 127	B	↓
186118	C	↓
↓ 23	1/5	250/150
1822138	mili	100

Standard Data

Lot #	Description	Conc.
V3V478-20	28-64	100 ppm
19	B	↓
25	C	↓
↓ 05	1/5	1000

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [Signature]

Date: 5/30/14

R	Data File	Sample ID	Test	MTX	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	Secondary dilution	L	I	S	Status (Data)	Comments	pH* < 2
	V3V478-69	BFB				1							on	8:30 AM	
	112 70	CE474-20				2	5						on	10:00 AM	
	112 71	IB				3	5						cb		
	112 72	MS1				4	5						on		
	112 73	BS				5	5						on	250/150	
	112 74	IB				6	5						cb		
	112 75	JB67809-1	68177 STAR		8	1	7	5.3					on		
	112 76	JB67809-2	↓		1	8	5.0						on		
R	112 77	JB67768-1	68117 STAR		5	9	4.9						on		
R	112 78	JB67768-2	↓		5	10	5.1						on		
R	112 79	JB67768-3	↓		5	11	4.8						on		
R	112 80	JB67768-4	↓		5	12	4.9						on		
R	112 81	JB67768-5	↓		5	13	5.2						on		
	112 82	JB67809-1MS	68177 STAR		6	1	14	5.4					on	17.5, 18.1	
	112 83	JB67809-1MS	↓		1	15	5.4						on	↓	
	112 84	IB				16	5						cb		
	112 88	JB67915-7	68248 TEL20		1	17	5						on		

MTX = Matrix Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate. Sample Amt = Volume (ML) or Weight (g); MOH amt. = volume (ul) extract injected * IF pH > 2, comment on sample result. All strike outs must be initialed, dated and reason code applied as follows: 1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR001-9
Rev. Date: 2/14/2007

55

Print Analyst Name: THHew

Analyst Signature: [Signature]

Columns: 2B-6m/60m corner class

Method 18260 c

Initial Cal. Method M3V474

Date: 5/29/14

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
page 55		

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature:

Water

Date: 5/30/14

[illegible]

MTX = Matrix Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

Sample Amt = Volume (ML) or Weight (g); MOH amt.= volume (ul) extract injected * IF pH > 2, comment on sample result.

All strike outs must be initialed, dated and reason code applied as follows: 1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR001-9
Rev. Date: 2/14/2007

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VOLATILE ANALYSIS LOG

Batch ID: V3V480Print Analyst Name: THWDate: 5/31/14

Standard Data

Lot #	Description	Conc.
104-1861-27	A	100 ppm
182-127	B	↓
1861-30	C	↓
↓ 28	1/5	20/2500
182-138	Sub	1000

Standard Data

Lot #	Description	Conc.
104-1861-20	Ext A	100 ppm
14	B	↓
25	C	↓
↓ 28	Sub	1000

Analyst Signature: THWColumns: 2B-6M/60m x 0.25mm x 1.4Method 18260 CInitial Cal. Method M3V474

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: Plates Date: 6/2/14

R	Data File	Sample ID	Test	M T X	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	Secondary dilution	L + S	I S U	Status (Data)	Comments	pH* <2
	3V11326	BFB				1						OK	10:57 AM	
	113 27	CC474-20				2	5/5	100				NG	A7R2, nls 1000/sure gas ↓	
	113 28	CC474-20				3	5/5	100				OK	↓	
	113 29	MSD				4	5/5	100				OK		
	113 30	BS				5	5/5	100				OK	Ext CA, R2, nls	
	113 31	BS				6	5/5	100				OK		
	113 32	JB 67612-68	68160 CF T220		3	7	5.2/5	100				OK	+ 3C	
	113 33	JB 67898-1	68245 CF T220		3	8	4.4/10	100				OK	+ 3V	
	113 34	JB 67268-2	68263 T220+		1	9	5/5	10				OK		
	113 35	JB 67268-2 MS			1	10	5/5	100				OK	nls, nls 2500/sure	
	113 36	JB 67268-2 MS			1	11	5/5	10				OK	↓	
	113 37	BS				12	5/5	100				OK		
m	113 38	JB 67268-2	↓		1	13	5/5	0.5				OK		
	113 39	BS				14	5/5	100				-		
	113 40	BS				15	5/5	100				-		
	113 41	BS				16	5/5	100				-		
	113 42	BS				17	5/5	100				-		

MTX = Matrix Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

Sample Amt = Volume (ML) or Weight (g); MOH amt. = volume (ul) extract injected * IF pH > 2, comment on sample result.

All strike outs must be initialed, dated and reason code applied as follows: 1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR001-9
Rev. Date: 2/14/2007

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GC/MS Semi-volatiles

QC Data Summaries

∞

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (DFTPP)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Page 1 of 3

Job Number: JB67898**Account:** LANGAN Langan Engineering & Environmental**Project:** Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP75185-MB1	6P7516.D	1	05/30/14	ALS	05/29/14	OP75185	E6P319

The QC reported here applies to the following samples:**Method:** SW846 8270D

JB67898-1, JB67898-2

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	57	29	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	140	29	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	140	46	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	140	48	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	570	35	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	570	35	ug/kg	
95-48-7	2-Methylphenol	ND	57	33	ug/kg	
	3&4-Methylphenol	ND	57	36	ug/kg	
88-75-5	2-Nitrophenol	ND	140	30	ug/kg	
100-02-7	4-Nitrophenol	ND	290	48	ug/kg	
87-86-5	Pentachlorophenol	ND	290	49	ug/kg	
108-95-2	Phenol	ND	57	30	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	140	29	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	140	33	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	140	27	ug/kg	
83-32-9	Acenaphthene	ND	29	8.3	ug/kg	
208-96-8	Acenaphthylene	ND	29	9.1	ug/kg	
98-86-2	Acetophenone	ND	140	5.0	ug/kg	
120-12-7	Anthracene	ND	29	10	ug/kg	
1912-24-9	Atrazine	ND	57	5.6	ug/kg	
56-55-3	Benzo(a)anthracene	ND	29	9.3	ug/kg	
50-32-8	Benzo(a)pyrene	ND	29	8.7	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	29	9.5	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	29	11	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	29	11	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	57	10	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	57	17	ug/kg	
92-52-4	1,1'-Biphenyl	ND	57	3.3	ug/kg	
100-52-7	Benzaldehyde	ND	140	6.6	ug/kg	
91-58-7	2-Chloronaphthalene	ND	57	8.9	ug/kg	
106-47-8	4-Chloroaniline	ND	140	9.1	ug/kg	
86-74-8	Carbazole	ND	57	13	ug/kg	
105-60-2	Caprolactam	ND	57	9.0	ug/kg	
218-01-9	Chrysene	ND	29	9.7	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	57	12	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	57	8.6	ug/kg	

8.1.1

8

Method Blank Summary

Page 2 of 3

Job Number: JB67898

Account: LANGAN Langan Engineering & Environmental

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP75185-MB1	6P7516.D	1	05/30/14	ALS	05/29/14	OP75185	E6P319

The QC reported here applies to the following samples:

Method: SW846 8270D

JB67898-1, JB67898-2

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	57	8.5	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	57	8.6	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	29	12	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	29	11	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	57	7.3	ug/kg	
123-91-1	1,4-Dioxane	ND	29	19	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	29	9.7	ug/kg	
132-64-9	Dibenzofuran	ND	57	8.5	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	57	6.3	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	57	14	ug/kg	
84-66-2	Diethyl phthalate	ND	57	9.7	ug/kg	
131-11-3	Dimethyl phthalate	ND	57	10	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	57	25	ug/kg	
206-44-0	Fluoranthene	ND	29	13	ug/kg	
86-73-7	Fluorene	ND	29	9.4	ug/kg	
118-74-1	Hexachlorobenzene	ND	57	9.3	ug/kg	
87-68-3	Hexachlorobutadiene	ND	29	7.9	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	290	29	ug/kg	
67-72-1	Hexachloroethane	ND	140	7.9	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	29	9.9	ug/kg	
78-59-1	Isophorone	ND	57	7.7	ug/kg	
91-57-6	2-Methylnaphthalene	ND	57	16	ug/kg	
88-74-4	2-Nitroaniline	ND	140	13	ug/kg	
99-09-2	3-Nitroaniline	ND	140	11	ug/kg	
100-01-6	4-Nitroaniline	ND	140	11	ug/kg	
91-20-3	Naphthalene	ND	29	7.8	ug/kg	
98-95-3	Nitrobenzene	ND	57	8.3	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	57	7.0	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	140	17	ug/kg	
85-01-8	Phenanthrene	ND	29	13	ug/kg	
129-00-0	Pyrene	ND	29	11	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	140	8.8	ug/kg	

8.1.1

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Method Blank Summary

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Job Number: JB67898

Account: LANGAN Langan Engineering & Environmental

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP75185-MB1	6P7516.D	1	05/30/14	ALS	05/29/14	OP75185	E6P319

The QC reported here applies to the following samples:

Method: SW846 8270D

JB67898-1, JB67898-2

CAS No.	Surrogate Recoveries	Limits
367-12-4	2-Fluorophenol	90% 13-110%
4165-62-2	Phenol-d5	84% 15-110%
118-79-6	2,4,6-Tribromophenol	109% 20-123%
4165-60-0	Nitrobenzene-d5	84% 10-110%
321-60-8	2-Fluorobiphenyl	99% 17-110%
1718-51-0	Terphenyl-d14	107% 30-124%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	1.40	130	ug/kg	J
	system artifact/aldol-condensation	3.34	1300	ug/kg	J
	Total TIC, Semi-Volatile		0	ug/kg	

8.1.1

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Method Blank Summary

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Job Number: JB67898**Account:** LANGAN Langan Engineering & Environmental**Project:** Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP75202-MB1	2P37032.D	1	05/30/14	HK	05/29/14	OP75202	E2P1542

The QC reported here applies to the following samples:**Method:** SW846 8270D

JB67898-4

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	1.3	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	1.3	ug/l	
120-83-2	2,4-Dichlorophenol	ND	2.0	1.6	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	1.8	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	6.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	20	1.3	ug/l	
95-48-7	2-Methylphenol	ND	2.0	1.3	ug/l	
	3&4-Methylphenol	ND	2.0	1.1	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	1.9	ug/l	
100-02-7	4-Nitrophenol	ND	10	0.91	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.4	ug/l	
108-95-2	Phenol	ND	2.0	0.55	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	1.4	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	1.7	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	1.5	ug/l	
83-32-9	Acenaphthene	ND	1.0	0.30	ug/l	
208-96-8	Acenaphthylene	ND	1.0	0.20	ug/l	
98-86-2	Acetophenone	ND	2.0	0.36	ug/l	
120-12-7	Anthracene	ND	1.0	0.19	ug/l	
1912-24-9	Atrazine	ND	2.0	0.42	ug/l	
100-52-7	Benzaldehyde	ND	5.0	0.67	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.0	0.22	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.0	0.24	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.0	0.22	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.0	0.31	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.0	0.22	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.25	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.22	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.0	0.27	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.0	0.34	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.30	ug/l	
86-74-8	Carbazole	ND	1.0	0.17	ug/l	
105-60-2	Caprolactam	ND	2.0	0.41	ug/l	
218-01-9	Chrysene	ND	1.0	0.16	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.42	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.43	ug/l	

8.1.2

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Method Blank Summary

Job Number: JB67898

Account: LANGAN Langan Engineering & Environmental

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP75202-MB1	2P37032.D	1	05/30/14	HK	05/29/14	OP75202	E2P1542

The QC reported here applies to the following samples:

Method: SW846 8270D

JB67898-4

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.0	0.41	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.38	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	1.0	0.32	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	1.0	0.26	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	2.0	0.56	ug/l	
123-91-1	1,4-Dioxane	ND	1.0	0.72	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.0	0.28	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.23	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.0	0.58	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.25	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	0.23	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.26	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.55	ug/l	
206-44-0	Fluoranthene	ND	1.0	0.16	ug/l	
86-73-7	Fluorene	ND	1.0	0.27	ug/l	
118-74-1	Hexachlorobenzene	ND	1.0	0.46	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	0.39	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	0.48	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.29	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.0	0.40	ug/l	
78-59-1	Isophorone	ND	2.0	0.34	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	0.29	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	0.32	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.26	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.30	ug/l	
91-20-3	Naphthalene	ND	1.0	0.27	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.52	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.38	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.21	ug/l	
85-01-8	Phenanthrene	ND	1.0	0.19	ug/l	
129-00-0	Pyrene	ND	1.0	0.19	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.0	0.44	ug/l	

Method Blank Summary

Job Number: JB67898
Account: LANGAN Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP75202-MB1	2P37032.D	1	05/30/14	HK	05/29/14	OP75202	E2P1542

The QC reported here applies to the following samples: Method: SW846 8270D

JB67898-4

CAS No.	Surrogate Recoveries	Limits
367-12-4	2-Fluorophenol	68% 10-110%
4165-62-2	Phenol-d5	56% 10-110%
118-79-6	2,4,6-Tribromophenol	85% 29-139%
4165-60-0	Nitrobenzene-d5	86% 28-131%
321-60-8	2-Fluorobiphenyl	84% 30-121%
1718-51-0	Terphenyl-d14	96% 16-147%

8.1.2
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Blank Spike Summary

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Job Number: JB67898**Account:** LANGAN Langan Engineering & Environmental**Project:** Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP75185-BS1	6P7517.D	1	05/30/14	ALS	05/29/14	OP75185	E6P319

The QC reported here applies to the following samples:**Method:** SW846 8270D

JB67898-1, JB67898-2

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
95-57-8	2-Chlorophenol	1430	1370	96	37-110
59-50-7	4-Chloro-3-methyl phenol	1430	1390	97	44-125
120-83-2	2,4-Dichlorophenol	1430	1530	107	41-120
105-67-9	2,4-Dimethylphenol	1430	1460	102	43-137
51-28-5	2,4-Dinitrophenol	2860	2190	77	21-147
534-52-1	4,6-Dinitro-o-cresol	1430	1190	83	37-136
95-48-7	2-Methylphenol	1430	1320	92	40-110
	3&4-Methylphenol	1430	1300	91	39-111
88-75-5	2-Nitrophenol	1430	1430	100	36-117
100-02-7	4-Nitrophenol	1430	1310	92	26-143
87-86-5	Pentachlorophenol	1430	1420	99	21-123
108-95-2	Phenol	1430	1150	81	36-112
58-90-2	2,3,4,6-Tetrachlorophenol	1430	1430	100	40-121
95-95-4	2,4,5-Trichlorophenol	1430	1510	106	48-120
88-06-2	2,4,6-Trichlorophenol	1430	1510	106	48-119
83-32-9	Acenaphthene	1430	1520	106	46-110
208-96-8	Acenaphthylene	1430	1240	87	43-103
98-86-2	Acetophenone	1430	1210	85	35-120
120-12-7	Anthracene	1430	1430	100	56-118
1912-24-9	Atrazine	1430	1290	90	57-151
56-55-3	Benzo(a)anthracene	1430	1380	97	56-117
50-32-8	Benzo(a)pyrene	1430	1500	105	56-124
205-99-2	Benzo(b)fluoranthene	1430	1540	108	53-127
191-24-2	Benzo(g,h,i)perylene	1430	1420	99	52-126
207-08-9	Benzo(k)fluoranthene	1430	1560	109	51-122
101-55-3	4-Bromophenyl phenyl ether	1430	1580	111	51-121
85-68-7	Butyl benzyl phthalate	1430	1440	101	52-133
92-52-4	1,1'-Biphenyl	1430	1310	92	42-122
100-52-7	Benzaldehyde	1430	1010	71	30-119
91-58-7	2-Chloronaphthalene	1430	1430	100	42-110
106-47-8	4-Chloroaniline	1430	671	47	32-102
86-74-8	Carbazole	1430	1270	89	53-119
105-60-2	Caprolactam	1430	1190	83	35-144
218-01-9	Chrysene	1430	1450	102	54-121
111-91-1	bis(2-Chloroethoxy)methane	1430	1310	92	40-118
111-44-4	bis(2-Chloroethyl)ether	1430	1240	87	33-110

* = Outside of Control Limits.

Blank Spike Summary

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Job Number: JB67898

Account: LANGAN Langan Engineering & Environmental

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP75185-BS1	6P7517.D	1	05/30/14	ALS	05/29/14	OP75185	E6P319

The QC reported here applies to the following samples:

Method: SW846 8270D

JB67898-1, JB67898-2

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
108-60-1	bis(2-Chloroisopropyl)ether	1430	1380	97	30-108
7005-72-3	4-Chlorophenyl phenyl ether	1430	1550	109	48-116
121-14-2	2,4-Dinitrotoluene	1430	1460	102	51-126
606-20-2	2,6-Dinitrotoluene	1430	1460	102	52-126
91-94-1	3,3'-Dichlorobenzidine	2860	2030	71	49-115
123-91-1	1,4-Dioxane	1430	797	56	10-110
53-70-3	Dibenzo(a,h)anthracene	1430	1510	106	53-126
132-64-9	Dibenzofuran	1430	1410	99	45-114
84-74-2	Di-n-butyl phthalate	1430	1500	105	56-125
117-84-0	Di-n-octyl phthalate	1430	1600	112	49-145
84-66-2	Diethyl phthalate	1430	1520	106	52-118
131-11-3	Dimethyl phthalate	1430	1530	107	54-114
117-81-7	bis(2-Ethylhexyl)phthalate	1430	1470	103	52-138
206-44-0	Fluoranthene	1430	1410	99	55-119
86-73-7	Fluorene	1430	1520	106	51-114
118-74-1	Hexachlorobenzene	1430	1460	102	47-122
87-68-3	Hexachlorobutadiene	1430	1680	118* a	28-117
77-47-4	Hexachlorocyclopentadiene	2860	3110	109	22-126
67-72-1	Hexachloroethane	1430	1500	105* a	28-103
193-39-5	Indeno(1,2,3-cd)pyrene	1430	1400	98	53-128
78-59-1	Isophorone	1430	1240	87	37-117
91-57-6	2-Methylnaphthalene	1430	1390	97	34-114
88-74-4	2-Nitroaniline	1430	1240	87	46-135
99-09-2	3-Nitroaniline	1430	854	60	44-114
100-01-6	4-Nitroaniline	1430	1290	90	44-128
91-20-3	Naphthalene	1430	1460	102	37-104
98-95-3	Nitrobenzene	1430	1260	88	34-117
621-64-7	N-Nitroso-di-n-propylamine	1430	1250	88	35-115
86-30-6	N-Nitrosodiphenylamine	1430	1490	104	51-114
85-01-8	Phenanthrene	1430	1390	97	55-113
129-00-0	Pyrene	1430	1390	97	54-120
95-94-3	1,2,4,5-Tetrachlorobenzene	1430	1390	97	38-112

* = Outside of Control Limits.

Blank Spike Summary

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Job Number: JB67898

Account: LANGAN Langan Engineering & Environmental

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP75185-BS1	6P7517.D	1	05/30/14	ALS	05/29/14	OP75185	E6P319

The QC reported here applies to the following samples:

Method: SW846 8270D

JB67898-1, JB67898-2

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	89%	13-110%
4165-62-2	Phenol-d5	85%	15-110%
118-79-6	2,4,6-Tribromophenol	110%	20-123%
4165-60-0	Nitrobenzene-d5	84%	10-110%
321-60-8	2-Fluorobiphenyl	99%	17-110%
1718-51-0	Terphenyl-d14	100%	30-124%

(a) Outside of in-house control limits, but within reasonable method recovery limits.

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Page 1 of 3

Job Number: JB67898**Account:** LANGAN Langan Engineering & Environmental**Project:** Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP75202-BS1	2P37033.D	1	05/30/14	HK	05/29/14	OP75202	E2P1542
OP75202-BSD	2P37035.D	1	05/30/14	HK	05/29/14	OP75202	E2P1542

The QC reported here applies to the following samples:**Method:** SW846 8270D

JB67898-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
95-57-8	2-Chlorophenol	50	40.5	81	43.2	86	6	42-110/30
59-50-7	4-Chloro-3-methyl phenol	50	42.9	86	46.0	92	7	49-120/30
120-83-2	2,4-Dichlorophenol	50	44.0	88	47.8	96	8	47-114/30
105-67-9	2,4-Dimethylphenol	50	50.7	101	52.8	106	4	48-129/30
51-28-5	2,4-Dinitrophenol	100	72.8	73	81.3	81	11	26-153/30
534-52-1	4,6-Dinitro-o-cresol	50	39.9	80	45.5	91	13	44-132/30
95-48-7	2-Methylphenol	50	41.8	84	41.7	83	0	39-110/30
	3&4-Methylphenol	50	39.1	78	36.8	74	6	36-110/30
88-75-5	2-Nitrophenol	50	41.4	83	47.4	95	14	45-110/30
100-02-7	4-Nitrophenol	50	46.4	93	38.3	77	19	10-110/30
87-86-5	Pentachlorophenol	50	44.4	89	48.4	97	9	32-122/30
108-95-2	Phenol	50	39.9	80	27.5	55	37* a	10-110/30
58-90-2	2,3,4,6-Tetrachlorophenol	50	47.7	95	52.1	104	9	47-119/30
95-95-4	2,4,5-Trichlorophenol	50	43.7	87	49.1	98	12	52-119/30
88-06-2	2,4,6-Trichlorophenol	50	45.0	90	50.5	101	12	51-118/30
83-32-9	Acenaphthene	50	45.8	92	43.5	87	5	46-108/30
208-96-8	Acenaphthylene	50	38.1	76	36.6	73	4	44-101/30
98-86-2	Acetophenone	50	34.6	69	39.1	78	12	39-125/30
120-12-7	Anthracene	50	46.8	94	51.2	102	9	60-117/30
1912-24-9	Atrazine	50	47.7	95	52.9	106	10	58-153/30
100-52-7	Benzaldehyde	50	42.9	86	50.6	101	16	32-119/30
56-55-3	Benzo(a)anthracene	50	46.4	93	51.6	103	11	59-116/30
50-32-8	Benzo(a)pyrene	50	51.3	103	53.4	107	4	61-122/30
205-99-2	Benzo(b)fluoranthene	50	49.3	99	53.1	106	7	56-129/30
191-24-2	Benzo(g,h,i)perylene	50	53.1	106	55.8	112	5	54-126/30
207-08-9	Benzo(k)fluoranthene	50	49.0	98	51.7	103	5	53-124/30
101-55-3	4-Bromophenyl phenyl ether	50	49.1	98	50.3	101	2	55-120/30
85-68-7	Butyl benzyl phthalate	50	53.2	106	60.0	120	12	42-138/30
92-52-4	1,1'-Biphenyl	50	36.4	73	38.8	78	6	41-123/30
91-58-7	2-Chloronaphthalene	50	43.1	86	37.3	75	14	38-107/30
106-47-8	4-Chloroaniline	50	36.5	73	22.1	44	49* a	38-110/30
86-74-8	Carbazole	50	38.6	77	42.7	85	10	55-121/30
105-60-2	Caprolactam	50	38.4	77	18.2	36	71* a	10-113/30
218-01-9	Chrysene	50	49.3	99	54.4	109	10	58-121/30
111-91-1	bis(2-Chloroethoxy)methane	50	46.6	93	52.0	104	11	48-117/30
111-44-4	bis(2-Chloroethyl)ether	50	44.7	89	50.8	102	13	40-108/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

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Job Number: JB67898

Account: LANGAN Langan Engineering & Environmental

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP75202-BS1	2P37033.D	1	05/30/14	HK	05/29/14	OP75202	E2P1542
OP75202-BSD	2P37035.D	1	05/30/14	HK	05/29/14	OP75202	E2P1542

The QC reported here applies to the following samples:

Method: SW846 8270D

JB67898-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
108-60-1	bis(2-Chloroisopropyl)ether	50	43.6	87	47.6	95	9	37-107/30
7005-72-3	4-Chlorophenyl phenyl ether	50	47.0	94	46.6	93	1	48-117/30
121-14-2	2,4-Dinitrotoluene	50	47.0	94	52.8	106	12	53-129/30
606-20-2	2,6-Dinitrotoluene	50	46.4	93	51.7	103	11	57-126/30
91-94-1	3,3'-Dichlorobenzidine	100	86.3	86	53.6	54	47* a	41-109/30
123-91-1	1,4-Dioxane	50	29.5	59	29.6	59	0	10-110/30
53-70-3	Dibenzo(a,h)anthracene	50	52.1	104	55.6	111	6	57-126/30
132-64-9	Dibenzofuran	50	41.5	83	45.9	92	10	46-112/30
84-74-2	Di-n-butyl phthalate	50	49.7	99	55.0	110	10	54-127/30
117-84-0	Di-n-octyl phthalate	50	45.2	90	48.3	97	7	55-142/30
84-66-2	Diethyl phthalate	50	46.0	92	50.9	102	10	35-130/30
131-11-3	Dimethyl phthalate	50	45.6	91	50.4	101	10	26-132/30
117-81-7	bis(2-Ethylhexyl)phthalate	50	52.2	104	57.5	115	10	58-135/30
206-44-0	Fluoranthene	50	47.0	94	52.5	105	11	59-120/30
86-73-7	Fluorene	50	45.7	91	46.7	93	2	53-114/30
118-74-1	Hexachlorobenzene	50	47.1	94	51.2	102	8	52-120/30
87-68-3	Hexachlorobutadiene	50	44.5	89	32.0	64	33* a	10-111/30
77-47-4	Hexachlorocyclopentadiene	100	93.2	93	69.5	70	29	10-116/30
67-72-1	Hexachloroethane	50	42.4	85	33.2	66	24	14-110/30
193-39-5	Indeno(1,2,3-cd)pyrene	50	42.2	84	44.6	89	6	56-127/30
78-59-1	Isophorone	50	43.1	86	48.0	96	11	45-119/30
91-57-6	2-Methylnaphthalene	50	41.8	84	44.8	90	7	30-112/30
88-74-4	2-Nitroaniline	50	42.7	85	47.3	95	10	46-136/30
99-09-2	3-Nitroaniline	50	37.4	75	27.9	56	29	46-113/30
100-01-6	4-Nitroaniline	50	43.3	87	46.7	93	8	47-129/30
91-20-3	Naphthalene	50	42.3	85	39.5	79	7	35-101/30
98-95-3	Nitrobenzene	50	41.8	84	47.1	94	12	40-115/30
621-64-7	N-Nitroso-di-n-propylamine	50	43.4	87	48.7	97	12	40-118/30
86-30-6	N-Nitrosodiphenylamine	50	48.5	97	51.1	102	5	54-112/30
85-01-8	Phenanthrene	50	45.1	90	49.0	98	8	58-113/30
129-00-0	Pyrene	50	46.9	94	51.9	104	10	56-120/30
95-94-3	1,2,4,5-Tetrachlorobenzene	50	42.6	85	33.5	67	24	28-111/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

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Job Number: JB67898

Account: LANGAN Langan Engineering & Environmental

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP75202-BS1	2P37033.D	1	05/30/14	HK	05/29/14	OP75202	E2P1542
OP75202-BSD	2P37035.D	1	05/30/14	HK	05/29/14	OP75202	E2P1542

The QC reported here applies to the following samples:

Method: SW846 8270D

JB67898-4

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
367-12-4	2-Fluorophenol	85%	74%	10-110%
4165-62-2	Phenol-d5	84%	57%	10-110%
118-79-6	2,4,6-Tribromophenol	98%	108%	29-139%
4165-60-0	Nitrobenzene-d5	82%	94%	28-131%
321-60-8	2-Fluorobiphenyl	85%	92%	30-121%
1718-51-0	Terphenyl-d14	94%	106%	16-147%

(a) Analytical precision exceeds in-house control limits.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 3

Job Number: JB67898

Account: LANGAN Langan Engineering & Environmental

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP75185-MS	6P7537.D	1	05/30/14	ALS	05/29/14	OP75185	E6P319
OP75185-MSD	6P7644.D	1	06/02/14	AR	05/29/14	OP75185	E6P323
JB67915-1	6P7525.D	1	05/30/14	ALS	05/29/14	OP75185	E6P319
JB67915-1	6P7634.D	10	06/02/14	AR	05/29/14	OP75185	E6P323

The QC reported here applies to the following samples:

Method: SW846 8270D

JB67898-1, JB67898-2

CAS No.	Compound	JB67915-1 ug/kg	Spike Q	ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
95-57-8	2-Chlorophenol	ND		1900	1480	78	1880	1390	74	6	16-104/44
59-50-7	4-Chloro-3-methyl phenol	ND		1900	1420	75	1880	1470	78	3	25-118/41
120-83-2	2,4-Dichlorophenol	ND		1900	1620	85	1880	1570	84	3	20-111/42
105-67-9	2,4-Dimethylphenol	ND		1900	1600	84	1880	1600	85	0	21-124/40
51-28-5	2,4-Dinitrophenol	ND		3810	427	11	3760	1630	43	117* a	10-110/54
534-52-1	4,6-Dinitro-o-cresol	ND		1900	361	19	1880	1090	58	100* a	10-111/55
95-48-7	2-Methylphenol	ND		1900	1430	75	1880	1460	78	2	19-105/42
	3&4-Methylphenol	75.9		1900	1420	71	1880	1440	73	1	17-108/43
88-75-5	2-Nitrophenol	ND		1900	1490	78	1880	1470	78	1	11-103/44
100-02-7	4-Nitrophenol	ND		1900	1440	76	1880	1480	79	3	10-141/48
87-86-5	Pentachlorophenol	ND		1900	1230	65	1880	1050	56	16	10-114/47
108-95-2	Phenol	ND		1900	1270	67	1880	1300	69	2	16-105/42
58-90-2	2,3,4,6-Tetrachlorophenol	ND		1900	1480	78	1880	1360	72	8	20-116/42
95-95-4	2,4,5-Trichlorophenol	ND		1900	1620	85	1880	1550	82	4	24-116/42
88-06-2	2,4,6-Trichlorophenol	ND		1900	1630	86	1880	1550	82	5	21-117/40
83-32-9	Acenaphthene	185		1900	1760	83	1880	1720	82	2	25-106/38
208-96-8	Acenaphthylene	2580		1900	3470	47	1880	2290	0* a	41* a	21-110/39
98-86-2	Acetophenone	ND		1900	1290	68	1880	1300	69	1	13-117/43
120-12-7	Anthracene	5020 c		1900	3100	0* b	1880	2370	0* b	27	27-123/40
1912-24-9	Atrazine	ND		1900	1380	72	1880	1310	70	5	31-147/39
56-55-3	Benzo(a)anthracene	15400 c		1900	10000	0* b	1880	5490	0* b	58* a	22-127/44
50-32-8	Benzo(a)pyrene	12600 c		1900	10300	0* b	1880	5740	0* b	57* a	22-132/42
205-99-2	Benzo(b)fluoranthene	16000 c		1900	12100	0* b	1880	7060	0* b	53* a	17-141/45
191-24-2	Benzo(g,h,i)perylene	7840 c		1900	8190	0* b	1880	5080	0* b	47* a	23-129/42
207-08-9	Benzo(k)fluoranthene	3700		1900	4210	27	1880	3020	0* a	33	20-124/44
101-55-3	4-Bromophenyl phenyl ether	ND		1900	1820	96	1880	1690	90	7	30-116/38
85-68-7	Butyl benzyl phthalate	ND		1900	1730	91	1880	2450	130	34	26-134/40
92-52-4	1,1'-Biphenyl	40.5	J	1900	1470	75	1880	1460	76	1	22-114/41
100-52-7	Benzaldehyde	ND		1900	1180	62	1880	1130	60	4	10-115/42
91-58-7	2-Chloronaphthalene	ND		1900	1590	84	1880	1590	85	0	24-101/40
106-47-8	4-Chloroaniline	ND		1900	694	36	1880	892	47	25	15-110/44
86-74-8	Carbazole	3850 c		1900	1730	0* b	1880	1590	0* b	8	27-123/38
105-60-2	Caprolactam	ND		1900	1290	68	1880	1430	76	10	10-141/42
218-01-9	Chrysene	15500 c		1900	10400	0* b	1880	5370	0* b	64* a	21-131/42
111-91-1	bis(2-Chloroethoxy)methane	ND		1900	1480	78	1880	1560	83	5	21-108/40
111-44-4	bis(2-Chloroethyl)ether	ND		1900	1370	72	1880	1420	76	4	13-104/44

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Page 2 of 3

Job Number: JB67898

Account: LANGAN Langan Engineering & Environmental

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP75185-MS	6P7537.D	1	05/30/14	ALS	05/29/14	OP75185	E6P319
OP75185-MSD	6P7644.D	1	06/02/14	AR	05/29/14	OP75185	E6P323
JB67915-1	6P7525.D	1	05/30/14	ALS	05/29/14	OP75185	E6P319
JB67915-1	6P7634.D	10	06/02/14	AR	05/29/14	OP75185	E6P323

The QC reported here applies to the following samples:

Method: SW846 8270D

JB67898-1, JB67898-2

CAS No.	Compound	JB67915-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
108-60-1	bis(2-Chloroisopropyl)ether	ND		1900	1430	75	1880	1450	77	1	13-110/42
7005-72-3	4-Chlorophenyl phenyl ether	ND		1900	1690	89	1880	1650	88	2	27-111/38
121-14-2	2,4-Dinitrotoluene	ND		1900	1430	75	1880	1590	85	11	20-124/40
606-20-2	2,6-Dinitrotoluene	ND		1900	1540	81	1880	1600	85	4	24-122/38
91-94-1	3,3'-Dichlorobenzidine	ND		3810	2200	58	3760	2370	63	7	10-121/45
123-91-1	1,4-Dioxane	ND		1900	685	36	1880	661	35	4	10-110/48
53-70-3	Dibenzo(a,h)anthracene	3500		1900	4540	55	1880	3120	0* a	37	26-129/42
132-64-9	Dibenzofuran	758		1900	1620	45	1880	1580	44	3	21-114/39
84-74-2	Di-n-butyl phthalate	ND		1900	1670	88	1880	1690	90	1	29-127/39
117-84-0	Di-n-octyl phthalate	ND		1900	1370	72	1880	2060	110	40	25-140/43
84-66-2	Diethyl phthalate	ND		1900	1670	88	1880	1680	89	1	32-115/37
131-11-3	Dimethyl phthalate	ND		1900	1710	90	1880	1700	90	1	29-115/37
117-81-7	bis(2-Ethylhexyl)phthalate	555		1900	1630	56	1880	2160	85	28	26-140/43
206-44-0	Fluoranthene	34800 c		1900	11000	0* b	1880	5150	0* b	72* a	16-134/44
86-73-7	Fluorene	508		1900	1890	73	1880	1750	66	8	24-116/39
118-74-1	Hexachlorobenzene	ND		1900	1580	83	1880	1490	79	6	24-118/41
87-68-3	Hexachlorobutadiene	ND		1900	1850	97	1880	1680	89	10	15-110/42
77-47-4	Hexachlorocyclopentadiene	ND		3810	1310	34	3760	1700	45	26	10-110/52
67-72-1	Hexachloroethane	ND		1900	1480	78	1880	1480	79	0	11-110/46
193-39-5	Indeno(1,2,3-cd)pyrene	8570 c		1900	9180	0* b	1880	5420	0* b	52* a	23-132/43
78-59-1	Isophorone	ND		1900	1370	72	1880	1460	78	6	22-105/41
91-57-6	2-Methylnaphthalene	70.2 J		1900	1530	77	1880	1460	74	5	16-108/40
88-74-4	2-Nitroaniline	ND		1900	1440	76	1880	1650	88	14	23-130/39
99-09-2	3-Nitroaniline	ND		1900	1080	57	1880	1200	64	11	19-116/40
100-01-6	4-Nitroaniline	ND		1900	1190	63	1880	1240	66	4	18-124/42
91-20-3	Naphthalene	181		1900	1680	79	1880	1600	76	5	13-103/41
98-95-3	Nitrobenzene	ND		1900	1380	72	1880	1510	80	9	14-109/41
621-64-7	N-Nitroso-di-n-propylamine	ND		1900	1350	71	1880	1470	78	9	11-113/41
86-30-6	N-Nitrosodiphenylamine	ND		1900	1740	91	1880	1730	92	1	26-119/38
85-01-8	Phenanthrene	31000 c		1900	5970	0* b	1880	3570	0* b	50* a	19-126/42
129-00-0	Pyrene	32200 c		1900	10700	0* b	1880	5360	0* b	67* a	17-136/45
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		1900	1510	79	1880	1450	77	4	22-110/41

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

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Job Number: JB67898

Account: LANGAN Langan Engineering & Environmental

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP75185-MS	6P7537.D	1	05/30/14	ALS	05/29/14	OP75185	E6P319
OP75185-MSD	6P7644.D	1	06/02/14	AR	05/29/14	OP75185	E6P323
JB67915-1	6P7525.D	1	05/30/14	ALS	05/29/14	OP75185	E6P319
JB67915-1	6P7634.D	10	06/02/14	AR	05/29/14	OP75185	E6P323

The QC reported here applies to the following samples:

Method: SW846 8270D

JB67898-1, JB67898-2

CAS No.	Surrogate Recoveries	MS	MSD	JB67915-1	JB67915-1	Limits
367-12-4	2-Fluorophenol	72%	72%	72%	59%	13-110%
4165-62-2	Phenol-d5	68%	72%	72%	57%	15-110%
118-79-6	2,4,6-Tribromophenol	93%	85%	100%	75%	20-123%
4165-60-0	Nitrobenzene-d5	69%	76%	69%	63%	10-110%
321-60-8	2-Fluorobiphenyl	83%	83%	87%	79%	17-110%
1718-51-0	Terphenyl-d14	72%	73%	78%	81%	30-124%

(a) Outside control limits due to matrix interference.

(b) Outside control limits due to high level in sample relative to spike amount.

(c) Result is from Run #2.

* = Outside of Control Limits.

Instrument Performance Check (DFTPP)

Page 1 of 1

Job Number: JB67898**Account:** LANGAN Langan Engineering & Environmental**Project:** Carroll Gardens, 363-365 Bond Street, Brooklyn, NY**Sample:** E2P1539-DFTPP**Injection Date:** 05/28/14**Lab File ID:** 2P36999.D**Injection Time:** 18:43**Instrument ID:** GCMS2P

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
51	30.0 - 60.0% of mass 198	67898	31.6	Pass
68	Less than 2.0% of mass 69	1629	0.76 (1.75) ^a	Pass
69	Mass 69 relative abundance	93000	43.3	Pass
70	Less than 2.0% of mass 69	543	0.25 (0.58) ^a	Pass
127	40.0 - 60.0% of mass 198	118912	55.4	Pass
197	Less than 1.0% of mass 198	0	0.00	Pass
198	Base peak, 100% relative abundance	214571	100.0	Pass
199	5.0 - 9.0% of mass 198	14502	6.76	Pass
275	10.0 - 30.0% of mass 198	47330	22.1	Pass
365	1.0 - 100.0% of mass 198	7148	3.33	Pass
441	Present, but less than mass 443	26792	12.5 (85.2) ^b	Pass
442	40.0 - 100.0% of mass 198	164149	76.5	Pass
443	17.0 - 23.0% of mass 442	31458	14.7 (19.2) ^c	Pass

(a) Value is % of mass 69

(b) Value is % of mass 443

(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E2P1539-ICC1539	2P37001.D	05/28/14	20:20	01:37	Initial cal 50
E2P1539-IC1539	2P37002.D	05/28/14	20:43	02:00	Initial cal 25
E2P1539-IC1539	2P37003.D	05/28/14	21:07	02:24	Initial cal 100
E2P1539-IC1539	2P37004.D	05/28/14	21:30	02:47	Initial cal 80
E2P1539-IC1539	2P37005.D	05/28/14	21:53	03:10	Initial cal 10
E2P1539-IC1539	2P37006.D	05/28/14	22:16	03:33	Initial cal 5
E2P1539-IC1539	2P37007.D	05/28/14	22:40	03:57	Initial cal 2
E2P1539-IC1539	2P37008.D	05/28/14	23:03	04:20	Initial cal 1

8.5.1
8

Instrument Performance Check (DFTPP)**Job Number:** JB67898**Account:** LANGAN Langan Engineering & Environmental**Project:** Carroll Gardens, 363-365 Bond Street, Brooklyn, NY**Sample:** E2P1540-DFTPP**Injection Date:** 05/29/14**Lab File ID:** 2P37009.D**Injection Time:** 08:58**Instrument ID:** GCMS2P

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
51	30.0 - 60.0% of mass 198	83180	34.8	Pass
68	Less than 2.0% of mass 69	1856	0.78 (1.64) ^a	Pass
69	Mass 69 relative abundance	112861	47.2	Pass
70	Less than 2.0% of mass 69	505	0.21 (0.45) ^a	Pass
127	40.0 - 60.0% of mass 198	138307	57.9	Pass
197	Less than 1.0% of mass 198	0	0.00	Pass
198	Base peak, 100% relative abundance	238976	100.0	Pass
199	5.0 - 9.0% of mass 198	15362	6.43	Pass
275	10.0 - 30.0% of mass 198	52144	21.8	Pass
365	1.0 - 100.0% of mass 198	7217	3.02	Pass
441	Present, but less than mass 443	26375	11.0 (82.9) ^b	Pass
442	40.0 - 100.0% of mass 198	172507	72.2	Pass
443	17.0 - 23.0% of mass 442	31808	13.3 (18.4) ^c	Pass

(a) Value is % of mass 69

(b) Value is % of mass 443

(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E2P1540-IC1540	2P37010.D	05/29/14	09:15	00:17	Initial cal 100
E2P1540-IC1540	2P37011.D	05/29/14	09:38	00:40	Initial cal 80
E2P1540-ICC1540	2P37012.D	05/29/14	10:02	01:04	Initial cal 50
E2P1540-IC1540	2P37013.D	05/29/14	10:25	01:27	Initial cal 25
E2P1540-IC1540	2P37014.D	05/29/14	10:48	01:50	Initial cal 10
E2P1540-IC1540	2P37015.D	05/29/14	11:11	02:13	Initial cal 5
E2P1540-IC1540	2P37016.D	05/29/14	11:34	02:36	Initial cal 2
E2P1540-IC1540	2P37017.D	05/29/14	11:57	02:59	Initial cal 1
E2P1540-ICV1539	2P37018.D	05/29/14	12:30	03:32	Initial cal verification 50
E2P1540-ICV1539	2P37019.D	05/29/14	12:53	03:55	Initial cal verification 50
E2P1540-ICV1540	2P37019A.D	05/29/14	12:53	03:55	Initial cal verification 50
E2P1540-ICV1540	2P37020A.D	05/29/14	13:24	04:26	Initial cal verification 50
E2P1540-ICV1539	2P37020.D	05/29/14	13:24	04:26	Initial cal verification 50
E2P1540-ICV1539	2P37022.D	05/29/14	14:43	05:45	Initial cal verification 50
E2P1540-ICV1540	2P37023A.D	05/29/14	15:06	06:08	Initial cal verification 50
E2P1540-ICV1539	2P37023.D	05/29/14	15:06	06:08	Initial cal verification 50
E2P1540-ICV1540	2P37024.D	05/29/14	15:29	06:31	Initial cal verification 50

Instrument Performance Check (DFTPP)

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Job Number: JB67898**Account:** LANGAN Langan Engineering & Environmental**Project:** Carroll Gardens, 363-365 Bond Street, Brooklyn, NY**Sample:** E2P1541-DFTPP**Injection Date:** 05/29/14**Lab File ID:** 2P37026.D**Injection Time:** 17:34**Instrument ID:** GCMS2P

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
51	30.0 - 60.0% of mass 198	57837	32.3	Pass
68	Less than 2.0% of mass 69	1001	0.56 (1.24) ^a	Pass
69	Mass 69 relative abundance	80959	45.2	Pass
70	Less than 2.0% of mass 69	361	0.20 (0.45) ^a	Pass
127	40.0 - 60.0% of mass 198	100558	56.1	Pass
197	Less than 1.0% of mass 198	0	0.00	Pass
198	Base peak, 100% relative abundance	179187	100.0	Pass
199	5.0 - 9.0% of mass 198	12335	6.88	Pass
275	10.0 - 30.0% of mass 198	39896	22.3	Pass
365	1.0 - 100.0% of mass 198	5574	3.11	Pass
441	Present, but less than mass 443	21914	12.2 (83.4) ^b	Pass
442	40.0 - 100.0% of mass 198	138933	77.5	Pass
443	17.0 - 23.0% of mass 442	26281	14.7 (18.9) ^c	Pass

(a) Value is % of mass 69

(b) Value is % of mass 443

(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E2P1541-ICV1539	2P37028.D	05/29/14	19:03	01:29	Initial cal verification 50

Instrument Performance Check (DFTPP)

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Job Number: JB67898

Account: LANGAN Langan Engineering & Environmental

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Sample: E2P1542-DFTPP

Injection Date: 05/30/14

Lab File ID: 2P37029.D

Injection Time: 08:40

Instrument ID: GCMS2P

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
51	30.0 - 60.0% of mass 198	79944	32.9	Pass
68	Less than 2.0% of mass 69	1763	0.72 (1.61) ^a	Pass
69	Mass 69 relative abundance	109283	44.9	Pass
70	Less than 2.0% of mass 69	526	0.22 (0.48) ^a	Pass
127	40.0 - 60.0% of mass 198	138573	57.0	Pass
197	Less than 1.0% of mass 198	177	0.07	Pass
198	Base peak, 100% relative abundance	243312	100.0	Pass
199	5.0 - 9.0% of mass 198	16320	6.71	Pass
275	10.0 - 30.0% of mass 198	54461	22.4	Pass
365	1.0 - 100.0% of mass 198	7535	3.10	Pass
441	Present, but less than mass 443	28245	11.6 (81.3) ^b	Pass
442	40.0 - 100.0% of mass 198	184352	75.8	Pass
443	17.0 - 23.0% of mass 442	34723	14.3 (18.8) ^c	Pass

(a) Value is % of mass 69

(b) Value is % of mass 443

(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E2P1542-CC1539	2P37030.D	05/30/14	09:02	00:22	Continuing cal 50
E2P1542-CC1540	2P37031.D	05/30/14	09:41	01:01	Continuing cal 50
OP75202A-MB1	2P37032.D	05/30/14	10:07	01:27	Method Blank
OP75202-MB1	2P37032.D	05/30/14	10:07	01:27	Method Blank
OP75202-BS1	2P37033.D	05/30/14	11:17	02:37	Blank Spike
OP75202-BSD	2P37035.D	05/30/14	11:40	03:00	Blank Spike Duplicate
ZZZZZZ	2P37038.D	05/30/14	12:04	03:24	(unrelated sample)
ZZZZZZ	2P37034.D	05/30/14	12:28	03:48	(unrelated sample)
ZZZZZZ	2P37039.D	05/30/14	12:51	04:11	(unrelated sample)
ZZZZZZ	2P37039R.D	05/30/14	12:51	04:11	(unrelated sample)
ZZZZZZ	2P37040.D	05/30/14	13:15	04:35	(unrelated sample)
ZZZZZZ	2P37040R.D	05/30/14	13:15	04:35	(unrelated sample)
ZZZZZZ	2P37041.D	05/30/14	13:38	04:58	(unrelated sample)
ZZZZZZ	2P37042.D	05/30/14	14:02	05:22	(unrelated sample)
ZZZZZZ	2P37043.D	05/30/14	14:25	05:45	(unrelated sample)
ZZZZZZ	2P37051.D	05/30/14	14:49	06:09	(unrelated sample)
ZZZZZZ	2P37052.D	05/30/14	15:12	06:32	(unrelated sample)
ZZZZZZ	2P37053.D	05/30/14	15:36	06:56	(unrelated sample)
OP75039-MB1	2P37054.D	05/30/14	16:00	07:20	Method Blank

Instrument Performance Check (DFTPP)

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Job Number: JB67898

Account: LANGAN Langan Engineering & Environmental

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Sample: E2P1542-DFTPP

Injection Date: 05/30/14

Lab File ID: 2P37029.D

Injection Time: 08:40

Instrument ID: GCMS2P

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	2P37055.D	05/30/14	16:23	07:43	(unrelated sample)
ZZZZZZ	2P37057.D	05/30/14	17:10	08:30	(unrelated sample)
ZZZZZZ	2P37044.D	05/30/14	17:34	08:54	(unrelated sample)
ZZZZZZ	2P37045.D	05/30/14	17:58	09:18	(unrelated sample)
ZZZZZZ	2P37046.D	05/30/14	18:21	09:41	(unrelated sample)
ZZZZZZ	2P37047.D	05/30/14	18:45	10:05	(unrelated sample)
JB67898-4	2P37049.D	05/30/14	19:32	10:52	290-FB-6
ZZZZZZ	2P37050.D	05/30/14	19:55	11:15	(unrelated sample)

8.5.4

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Instrument Performance Check (DFTPP)

Page 1 of 1

Job Number: JB67898**Account:** LANGAN Langan Engineering & Environmental**Project:** Carroll Gardens, 363-365 Bond Street, Brooklyn, NY**Sample:** E6P276-DFTPP**Injection Date:** 04/26/14**Lab File ID:** 6P6540.D**Injection Time:** 10:29**Instrument ID:** GCMS6P

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
51	30.0 - 60.0% of mass 198	82787	35.0	Pass
68	Less than 2.0% of mass 69	2528	1.07 (1.92) ^a	Pass
69	Mass 69 relative abundance	131826	55.8	Pass
70	Less than 2.0% of mass 69	773	0.33 (0.59) ^a	Pass
127	40.0 - 60.0% of mass 198	136277	57.7	Pass
197	Less than 1.0% of mass 198	1570	0.66	Pass
198	Base peak, 100% relative abundance	236363	100.0	Pass
199	5.0 - 9.0% of mass 198	16015	6.78	Pass
275	10.0 - 30.0% of mass 198	56792	24.0	Pass
365	1.0 - 100.0% of mass 198	8686	3.67	Pass
441	Present, but less than mass 443	25906	11.0 (72.4) ^b	Pass
442	40.0 - 100.0% of mass 198	186251	78.8	Pass
443	17.0 - 23.0% of mass 442	35779	15.1 (19.2) ^c	Pass

(a) Value is % of mass 69

(b) Value is % of mass 443

(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E6P276-ICC276	6P6524.D	04/26/14	10:41	00:12	Initial cal 50
E6P276-IC276	6P6525.D	04/26/14	11:09	00:40	Initial cal 25
E6P276-IC276	6P6526.D	04/26/14	11:38	01:09	Initial cal 80
E6P276-IC276	6P6527.D	04/26/14	12:06	01:37	Initial cal 100
E6P276-IC276	6P6528.D	04/26/14	12:34	02:05	Initial cal 10
E6P276-IC276	6P6529.D	04/26/14	13:46	03:17	Initial cal 5
E6P276-IC276	6P6530.D	04/26/14	14:14	03:45	Initial cal 2
E6P276-IC276	6P6531.D	04/26/14	14:42	04:13	Initial cal 1

Instrument Performance Check (DFTPP)

Page 1 of 1

Job Number: JB67898**Account:** LANGAN Langan Engineering & Environmental**Project:** Carroll Gardens, 363-365 Bond Street, Brooklyn, NY**Sample:** E6P277-DFTPP**Injection Date:** 04/27/14**Lab File ID:** 6P6541.D**Injection Time:** 12:39**Instrument ID:** GCMS6P

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
51	30.0 - 60.0% of mass 198	93065	35.2	Pass
68	Less than 2.0% of mass 69	2108	0.80 (1.42) ^a	Pass
69	Mass 69 relative abundance	148412	56.1	Pass
70	Less than 2.0% of mass 69	649	0.25 (0.44) ^a	Pass
127	40.0 - 60.0% of mass 198	154037	58.2	Pass
197	Less than 1.0% of mass 198	1495	0.56	Pass
198	Base peak, 100% relative abundance	264677	100.0	Pass
199	5.0 - 9.0% of mass 198	16590	6.27	Pass
275	10.0 - 30.0% of mass 198	67109	25.4	Pass
365	1.0 - 100.0% of mass 198	9694	3.66	Pass
441	Present, but less than mass 443	28597	10.8 (71.9) ^b	Pass
442	40.0 - 100.0% of mass 198	200395	75.7	Pass
443	17.0 - 23.0% of mass 442	39795	15.0 (19.9) ^c	Pass

(a) Value is % of mass 69

(b) Value is % of mass 443

(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E6P277-IC277	6P6542.D	04/27/14	12:54	00:15	Initial cal 1.0
E6P277-IC277	6P6543.D	04/27/14	13:22	00:43	Initial cal 100
E6P277-IC277	6P6544.D	04/27/14	13:50	01:11	Initial cal 80
E6P277-ICC277	6P6545.D	04/27/14	14:18	01:39	Initial cal 50
E6P277-IC277	6P6546.D	04/27/14	14:46	02:07	Initial cal 25
E6P277-IC277	6P6547.D	04/27/14	15:15	02:36	Initial cal 10
E6P277-IC277	6P6548.D	04/27/14	15:43	03:04	Initial cal 5
E6P277-IC277	6P6549.D	04/27/14	16:11	03:32	Initial cal 2

Instrument Performance Check (DFTPP)

Page 1 of 1

Job Number: JB67898**Account:** LANGAN Langan Engineering & Environmental**Project:** Carroll Gardens, 363-365 Bond Street, Brooklyn, NY**Sample:** E6P278-DFTPP**Injection Date:** 04/28/14**Lab File ID:** 6P6552.D**Injection Time:** 09:43**Instrument ID:** GCMS6P

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
51	30.0 - 60.0% of mass 198	85499	35.5	Pass
68	Less than 2.0% of mass 69	2198	0.91 (1.63) ^a	Pass
69	Mass 69 relative abundance	134876	56.0	Pass
70	Less than 2.0% of mass 69	1128	0.47 (0.84) ^a	Pass
127	40.0 - 60.0% of mass 198	142440	59.1	Pass
197	Less than 1.0% of mass 198	1136	0.47	Pass
198	Base peak, 100% relative abundance	240856	100.0	Pass
199	5.0 - 9.0% of mass 198	15511	6.44	Pass
275	10.0 - 30.0% of mass 198	62592	26.0	Pass
365	1.0 - 100.0% of mass 198	10509	4.36	Pass
441	Present, but less than mass 443	29928	12.4 (80.3) ^b	Pass
442	40.0 - 100.0% of mass 198	205712	85.4	Pass
443	17.0 - 23.0% of mass 442	37279	15.5 (18.1) ^c	Pass

(a) Value is % of mass 69

(b) Value is % of mass 443

(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E6P278-ICV277	6P6553.D	04/28/14	09:57	00:14	Initial cal verification 50
E6P278-ICV277	6P6554.D	04/28/14	10:26	00:43	Initial cal verification 50
E6P278-ICV276	6P6554A.D	04/28/14	10:26	00:43	Initial cal verification 50
E6P278-ICV276	6P6555A.D	04/28/14	10:54	01:11	Initial cal verification 50
E6P278-ICV277	6P6555.D	04/28/14	10:54	01:11	Initial cal verification 50
E6P278-ICV277	6P6556.D	04/28/14	11:22	01:39	Initial cal verification 50
E6P278-ICV277	6P6557.D	04/28/14	11:50	02:07	Initial cal verification 50
E6P278-ICV276	6P6558.D	04/28/14	12:18	02:35	Initial cal verification 50
E6P278-ICV276	6P6559.D	04/28/14	12:47	03:04	Initial cal verification 50

8.5.7
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Instrument Performance Check (DFTPP)**Job Number:** JB67898**Account:** LANGAN Langan Engineering & Environmental**Project:** Carroll Gardens, 363-365 Bond Street, Brooklyn, NY**Sample:** E6P319-DFTPP**Injection Date:** 05/29/14**Lab File ID:** 6P7511.D**Injection Time:** 21:55**Instrument ID:** GCMS6P

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
51	30.0 - 60.0% of mass 198	196898	35.8	Pass
68	Less than 2.0% of mass 69	4431	0.80 (1.60) ^a	Pass
69	Mass 69 relative abundance	276583	50.2	Pass
70	Less than 2.0% of mass 69	417	0.08 (0.15) ^a	Pass
127	40.0 - 60.0% of mass 198	298624	54.2	Pass
197	Less than 1.0% of mass 198	3251	0.59	Pass
198	Base peak, 100% relative abundance	550741	100.0	Pass
199	5.0 - 9.0% of mass 198	35723	6.49	Pass
275	10.0 - 30.0% of mass 198	157379	28.6	Pass
365	1.0 - 100.0% of mass 198	23066	4.19	Pass
441	Present, but less than mass 443	73037	13.3 (74.1) ^b	Pass
442	40.0 - 100.0% of mass 198	513984	93.3	Pass
443	17.0 - 23.0% of mass 442	98611	17.9 (19.2) ^c	Pass

(a) Value is % of mass 69

(b) Value is % of mass 443

(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E6P319-CC277	6P7512.D	05/29/14	22:07	00:12	Continuing cal 50
E6P319-CC276	6P7513.D	05/29/14	22:35	00:40	Continuing cal 50
OP75185-MB1	6P7516.D	05/30/14	00:00	02:05	Method Blank
OP75185-BS1	6P7517.D	05/30/14	00:28	02:33	Blank Spike
ZZZZZZ	6P7518.D	05/30/14	00:56	03:01	(unrelated sample)
ZZZZZZ	6P7519.D	05/30/14	01:25	03:30	(unrelated sample)
ZZZZZZ	6P7520.D	05/30/14	01:53	03:58	(unrelated sample)
ZZZZZZ	6P7522.D	05/30/14	02:49	04:54	(unrelated sample)
JB67898-1	6P7523.D	05/30/14	03:17	05:22	287-DEC-3
JB67898-2	6P7524.D	05/30/14	03:46	05:51	288-PE-60
JB67915-1	6P7525.D	05/30/14	04:14	06:19	(used for QC only; not part of job JB67898)
ZZZZZZ	6P7526.D	05/30/14	04:42	06:47	(unrelated sample)
ZZZZZZ	6P7527.D	05/30/14	05:10	07:15	(unrelated sample)
ZZZZZZ	6P7528.D	05/30/14	05:38	07:43	(unrelated sample)
ZZZZZZ	6P7529.D	05/30/14	06:06	08:11	(unrelated sample)
ZZZZZZ	6P7530.D	05/30/14	06:34	08:39	(unrelated sample)
ZZZZZZ	6P7531.D	05/30/14	07:02	09:07	(unrelated sample)
ZZZZZZ	6P7532.D	05/30/14	07:30	09:35	(unrelated sample)
ZZZZZZ	6P7533.D	05/30/14	07:59	10:04	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JB67898
Account: LANGAN Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Sample:	E6P319-DFTPP	Injection Date:	05/29/14
Lab File ID:	6P7511.D	Injection Time:	21:55
Instrument ID:	GCMS6P		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	6P7534.D	05/30/14	08:27	10:32	(unrelated sample)
ZZZZZZ	6P7535.D	05/30/14	08:55	11:00	(unrelated sample)
ZZZZZZ	6P7536.D	05/30/14	09:24	11:29	(unrelated sample)
OP75185-MS	6P7537.D	05/30/14	09:52	11:57	Matrix Spike

8.5.8
8

Instrument Performance Check (DFTPP)

Page 1 of 1

Job Number: JB67898**Account:** LANGAN Langan Engineering & Environmental**Project:** Carroll Gardens, 363-365 Bond Street, Brooklyn, NY**Sample:** E6P323-DFTPP**Injection Date:** 06/02/14**Lab File ID:** 6P7629.D**Injection Time:** 09:16**Instrument ID:** GCMS6P

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
51	30.0 - 60.0% of mass 198	232256	35.0	Pass
68	Less than 2.0% of mass 69	5462	0.82 (1.68) ^a	Pass
69	Mass 69 relative abundance	324605	49.0	Pass
70	Less than 2.0% of mass 69	3122	0.47 (0.96) ^a	Pass
127	40.0 - 60.0% of mass 198	351008	53.0	Pass
197	Less than 1.0% of mass 198	0	0.00	Pass
198	Base peak, 100% relative abundance	662891	100.0	Pass
199	5.0 - 9.0% of mass 198	42978	6.48	Pass
275	10.0 - 30.0% of mass 198	191990	29.0	Pass
365	1.0 - 100.0% of mass 198	30872	4.66	Pass
441	Present, but less than mass 443	85277	12.9 (71.5) ^b	Pass
442	40.0 - 100.0% of mass 198	628139	94.8	Pass
443	17.0 - 23.0% of mass 442	119256	18.0 (19.0) ^c	Pass

(a) Value is % of mass 69

(b) Value is % of mass 443

(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E6P323-CC277	6P7630.D	06/02/14	09:34	00:18	Continuing cal 50
E6P323-CC276	6P7631.D	06/02/14	10:07	00:51	Continuing cal 50
JB67915-1	6P7634.D	06/02/14	11:33	02:17	(used for QC only; not part of job JB67898)
ZZZZZZ	6P7635.D	06/02/14	12:02	02:46	(unrelated sample)
ZZZZZZ	6P7636.D	06/02/14	12:30	03:14	(unrelated sample)
ZZZZZZ	6P7637.D	06/02/14	12:59	03:43	(unrelated sample)
ZZZZZZ	6P7642.D	06/02/14	15:25	06:09	(unrelated sample)
ZZZZZZ	6P7643.D	06/02/14	15:54	06:38	(unrelated sample)
ZZZZZZ	6P7647.D	06/02/14	16:23	07:07	(unrelated sample)
OP75185-MSD	6P7644.D	06/02/14	16:52	07:36	Matrix Spike Duplicate
OP75136-MS	6P7645.D	06/02/14	17:20	08:04	Matrix Spike
OP75136-MSD	6P7646.D	06/02/14	17:49	08:33	Matrix Spike Duplicate

Semivolatile Internal Standard Area Summary

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Job Number: JB67898

Account: LANGAN Langan Engineering & Environmental

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Check Std: E2P1542-CC1539

Injection Date: 05/30/14

Lab File ID: 2P37030.D

Injection Time: 09:02

Instrument ID: GCMS2P

Method: SW846 8270D

	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
Check Std	640216	3.62	2431462	4.96	1320171	7.03	2047942	8.83	1968910	12.57	1739185	14.62
Upper Limit ^a	1280432	4.12	4862924	5.46	2640342	7.53	4095884	9.33	3937820	13.07	3478370	15.12
Lower Limit ^b	320108	3.12	1215731	4.46	660086	6.53	1023971	8.33	984455	12.07	869593	14.12

Lab Sample ID	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
OP75202A-MB1	590608	3.62	2236826	4.96	1181159	7.02	1808684	8.82	1594632	12.56	1466521	14.62
OP75202-MB1	590608	3.62	2236826	4.96	1181159	7.02	1808684	8.82	1594632	12.56	1466521	14.62
OP75202-BS1	591877	3.62	2212843	4.96	1191192	7.03	1783599	8.82	1598780	12.56	1405299	14.62
OP75202-BSD	567740	3.62	2095416	4.96	1113326	7.03	1682914	8.82	1520278	12.56	1410112	14.62
ZZZZZZ	582527	3.62	2180178	4.96	1133887	7.02	1716408	8.82	1512737	12.56	1405574	14.61
ZZZZZZ	608131	3.62	2074591	4.96	1137542	7.03	1802710	8.82	1761658	12.56	1603044	14.61
ZZZZZZ	571249	3.62	1630580	4.98	1166408	7.03	1784443	8.83	1662704	12.56	1369958	14.61
ZZZZZZ	571249	3.62	1630580	4.98	1166408	7.03	1784443	8.83	1662704	12.56	1369958	14.61
ZZZZZZ	543033	3.62	1955980	4.96	1100306	7.02	1669618	8.82	1497479	12.55	1354607	14.61
ZZZZZZ	543033	3.62	1955980	4.96	1100306	7.02	1669618	8.82	1497479	12.55	1354607	14.61
ZZZZZZ	663660	3.62	2483716	4.96	1289405	7.02	1999292	8.82	1828742	12.56	1606730	14.62
ZZZZZZ	587445	3.62	2194864	4.96	1140288	7.02	1736169	8.82	1557322	12.56	1337477	14.61
ZZZZZZ	550950	3.62	2052674	4.96	1057706	7.02	1654950	8.82	1482398	12.56	1298343	14.61
ZZZZZZ	507652	3.62	1889544	4.96	1016230	7.02	1557892	8.82	1388262	12.56	1261376	14.61
ZZZZZZ	692389	3.62	2538909	5.06	1420503	7.03	2200555	8.82	1949019	12.56	1802694	14.61
ZZZZZZ	579510	3.62	2159591	4.96	1156453	7.02	1799989	8.82	1615289	12.56	1465107	14.61
OP75039-MB1	682630	3.62	2546438	4.96	1312415	7.02	1976353	8.82	1660463	12.56	1452396	14.61
ZZZZZZ	652965	3.62	2349261	4.96	1188684	7.02	1684624	8.82	1508713	12.57	1445972	14.64
ZZZZZZ	659366	3.62	2466621	4.97	1228565	7.03	1738641	8.83	1423049	12.57	1317548	14.63
ZZZZZZ	674238	3.62	2501417	4.97	1343955	7.03	2066336	8.83	1598053	12.57	1464655	14.63
ZZZZZZ	731831	3.62	2736089	4.97	1436566	7.03	2195937	8.83	1801443	12.57	1654492	14.63
ZZZZZZ	764621	3.62	2845253	4.97	1531064	7.03	2361247	8.83	1987578	12.57	1723386	14.63
ZZZZZZ	643544	3.62	2376307	4.96	1261982	7.03	1940276	8.83	1699843	12.57	1430909	14.63
JB67898-4	575315	3.62	2179003	4.96	1155914	7.03	1739396	8.83	1496100	12.57	1282040	14.63
ZZZZZZ	504956	3.63	1897435	4.98	1018681	7.04	1635348	8.84	1520648	12.58	1401074	14.64

IS 1 = 1,4-Dichlorobenzene-d4

IS 2 = Naphthalene-d8

IS 3 = Acenaphthene-D10

IS 4 = Phenanthrene-d10

IS 5 = Chrysene-d12

IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.

(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

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Job Number: JB67898

Account: LANGAN Langan Engineering & Environmental

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Check Std: E6P319-CC277

Injection Date: 05/29/14

Lab File ID: 6P7512.D

Injection Time: 22:07

Instrument ID: GCMS6P

Method: SW846 8270D

	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
Check Std	946498	5.09	3559753	6.18	2165503	8.15	3756007	10.28	4048829	14.46	3455523	16.57
Upper Limit ^a	1892996	5.59	7119506	6.68	4331006	8.65	7512014	10.78	8097658	14.96	6911046	17.07
Lower Limit ^b	473249	4.59	1779877	5.68	1082752	7.65	1878004	9.78	2024415	13.96	1727762	16.07

Lab Sample ID	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
OP75185-MB1	926060	5.09	3633646	6.18	2127314	8.14	3523692	10.27	3495942	14.44	3170398	16.56
OP75185-BS1	975786	5.09	3751202	6.18	2212251	8.15	3747499	10.28	3792314	14.45	3101898	16.56
ZZZZZZ	1079576	5.09	4082726	6.18	2436435	8.14	3941498	10.27	3850829	14.44	3388627	16.56
ZZZZZZ	968298	5.09	3679603	6.18	2185679	8.14	3593201	10.27	3481458	14.44	3109573	16.56
ZZZZZZ	903263	5.09	3504406	6.18	2065873	8.14	3363273	10.27	3217473	14.44	2880238	16.56
ZZZZZZ	1103088	5.09	4297032	6.18	2506509	8.14	4099986	10.27	3892610	14.44	3445363	16.56
JB67898-1	1018534	5.09	3985732	6.18	2289164	8.15	3607158	10.28	3440016	14.45	3105035	16.56
JB67898-2	950170	5.09	3638817	6.18	2136888	8.14	3512910	10.27	3325048	14.44	2988385	16.56
JB67915-1	758588	5.09	3023200	6.18	1754939	8.14	2920916	10.29	3480883	14.50	3085636	16.62
ZZZZZZ	973449	5.09	3795520	6.18	2228302	8.15	3607327	10.28	3352756	14.46	3086839	16.57
ZZZZZZ	919518	5.09	3539061	6.18	2068631	8.15	3341917	10.28	3159988	14.46	2957971	16.58
ZZZZZZ	963012	5.09	3648604	6.18	2172537	8.15	3495807	10.28	3286038	14.46	3046718	16.57
ZZZZZZ	891151	5.09	3460656	6.18	2036451	8.15	3331424	10.28	3536837	14.48	3312233	16.59
ZZZZZZ	959670	5.09	3627825	6.18	2166024	8.15	3560076	10.28	3222403	14.46	3019518	16.57
ZZZZZZ	1042649	5.09	3982224	6.18	2331922	8.15	3815594	10.28	3569953	14.46	3387418	16.57
ZZZZZZ	935360	5.09	3609992	6.18	2110236	8.15	3449668	10.28	3147930	14.46	3013568	16.57
ZZZZZZ	972632	5.09	3663149	6.18	2152857	8.15	3497397	10.28	3131389	14.46	2938037	16.57
ZZZZZZ	822384	5.09	3127513	6.18	1829876	8.15	2917086	10.28	2864201	14.46	2834402	16.58
ZZZZZZ	1039958	5.09	3910102	6.18	2272464	8.15	3567278	10.28	3144985	14.47	3078755	16.58
ZZZZZZ	1019012	5.09	3801473	6.18	2228753	8.15	3527998	10.29	3187879	14.47	3104716	16.58
OP75185-MS	954515	5.09	3588825	6.18	2034040	8.15	3198990	10.29	3560307	14.51	3341068	16.63

IS 1 = 1,4-Dichlorobenzene-d4

IS 2 = Naphthalene-d8

IS 3 = Acenaphthene-D10

IS 4 = Phenanthrene-d10

IS 5 = Chrysene-d12

IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.

(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Page 1 of 1

Job Number: JB67898

Account: LANGAN Langan Engineering & Environmental

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Check Std: E6P323-CC277	Injection Date: 06/02/14
Lab File ID: 6P7630.D	Injection Time: 09:34
Instrument ID: GCMS6P	Method: SW846 8270D

	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
Check Std	1244559	5.05	4858009	6.14	2869164	8.11	4943346	10.24	5283713	14.41	4339536	16.53
Upper Limit ^a	2489118	5.55	9716018	6.64	5738328	8.61	9886692	10.74	10567426	14.91	8679072	17.03
Lower Limit ^b	622280	4.55	2429005	5.64	1434582	7.61	2471673	9.74	2641857	13.91	2169768	16.03

Lab Sample ID	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
JB67915-1	1156016	5.05	4535178	6.13	2686309	8.10	4325486	10.23	4203723	14.41	3704325	16.53
ZZZZZZ	1215426	5.05	4832574	6.13	2825444	8.10	4614303	10.22	4398272	14.40	3880302	16.52
ZZZZZZ	1365208	5.05	5254611	6.13	3021488	8.10	4842301	10.22	4380011	14.40	3828781	16.52
ZZZZZZ	1086249	5.05	4338474	6.13	2534352	8.10	4157129	10.22	4029558	14.40	3575895	16.51
ZZZZZZ	1105011	5.05	4329576	6.13	2551477	8.10	4163800	10.22	4252654	14.39	3918659	16.51
ZZZZZZ	1093597	5.05	4292276	6.13	2506569	8.10	4119203	10.22	4115676	14.39	3871312	16.51
ZZZZZZ	1236592	5.05	5108903	6.14	2916599	8.10	4805414	10.22	4838575	14.39	4239084	16.51
OP75185-MSD	1375195	5.05	5189024	6.13	2937144	8.10	4637285	10.22	4702841	14.42	4026657	16.54
OP75136-MS	1110390	5.05	4565984	6.14	2783185	8.12	4801359	10.28	5397924	14.51	5488021	16.66
OP75136-MSD	1140516	5.06	4750077	6.14	2894631	8.13	5058494	10.29	5870346	14.52	5643557	16.67

IS 1 = 1,4-Dichlorobenzene-d4

IS 2 = Naphthalene-d8

IS 3 = Acenaphthene-D10

IS 4 = Phenanthrene-d10

IS 5 = Chrysene-d12

IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.

(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Surrogate Recovery Summary

Job Number: JB67898
Account: LANGAN Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Method: SW846 8270D	Matrix: AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
JB67898-4	2P37049.D	46	30	97	87	88	97
OP75202-BS1	2P37033.D	85	84	98	82	85	94
OP75202-BSD	2P37035.D	74	57	108	94	92	106
OP75202-MB1	2P37032.D	68	56	85	86	84	96

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	10-110%
S2 = Phenol-d5	10-110%
S3 = 2,4,6-Tribromophenol	29-139%
S4 = Nitrobenzene-d5	28-131%
S5 = 2-Fluorobiphenyl	30-121%
S6 = Terphenyl-d14	16-147%

Semivolatile Surrogate Recovery Summary

Job Number: JB67898
Account: LANGAN Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Method: SW846 8270D	Matrix: SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
JB67898-1	6P7523.D	72	68	97	67	87	89
JB67898-2	6P7524.D	77	72	107	73	86	100
OP75185-BS1	6P7517.D	89	85	110	84	99	100
OP75185-MB1	6P7516.D	90	84	109	84	99	107
OP75185-MS	6P7537.D	72	68	93	69	83	72
OP75185-MSD	6P7644.D	72	72	85	76	83	73

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	13-110%
S2 = Phenol-d5	15-110%
S3 = 2,4,6-Tribromophenol	20-123%
S4 = Nitrobenzene-d5	10-110%
S5 = 2-Fluorobiphenyl	17-110%
S6 = Terphenyl-d14	30-124%

Initial Calibration Summary

Page 1 of 3

Job Number: JB67898

Sample: E2P1539-ICC1539

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 2P37001.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Response Factor Report MS2P

Method : C:\MSDCHEM\1\METHODS\M2P1539.M (RTE Integrator)
 Title : Semi Volatile Extractables by GC/MS
 Last Update : Fri May 30 09:21:22 2014
 Response via : Initial Calibration

Calibration Files

2 =2p37007.D 5 =2p37006.D 25 =2p37002.D 80 =2p37004.D
 100 =2p37003.D 50 =2p37001.D 1 =2p37008.D 10 =2p37005.D

Compound	2	5	25	80	100	50	1	10	Avg	%RSD
1) I 1,4-Dichlorobenzene-d	-----ISTD-----									
2) 1,4-Dioxane	0.619	0.633	0.617	0.593	0.570	0.603	0.522	0.620	0.597	6.06
3) Pyridine	1.548	1.562	1.565	1.517	1.459	1.519	1.598	1.531	1.537	2.71
4) N-Nitrosodim	0.772	0.802	0.793	0.764	0.737	0.768	0.763	0.752	0.769	2.70
5) 2-Fluorophen	1.317	1.404	1.422	1.380	1.318	1.377	1.376	1.353	1.368	2.74
6) Indene	2.846	2.908	2.744	2.335	2.130	2.539	2.826	2.724	2.631	10.44
7) Cumene	3.856	4.019	3.951	3.586	3.372	3.781	3.873	3.807	3.781	5.52
8) Phenol-d5	1.674	1.718	1.693	1.611	1.526	1.645	1.700	1.657	1.653	3.72
9) Phenol	1.815	1.848	1.800	1.652	1.577	1.744	1.974	1.771	1.773	6.82
10) Aniline	2.139	2.093	1.876	1.624	1.539	1.728	2.161	1.958	1.890	12.67
11) bis(2-Chloro	1.324	1.302	1.269	1.164	1.097	1.200	1.282	1.247	1.235	6.21
12) 2-Chlorophen	1.559	1.596	1.548	1.403	1.315	1.475	1.658	1.534	1.511	7.27
13) Decane	1.671	1.715	1.607	1.298	1.193	1.445	1.683	1.631	1.530	12.80
14) 1,3-Dichloro	1.715	1.748	1.671	1.540	1.470	1.593	1.705	1.640	1.635	5.82
15) 1,4-Dichloro	1.696	1.709	1.650	1.527	1.435	1.578	1.746	1.620	1.620	6.39
16) Benzyl alcoh	0.904	0.933	0.935	0.881	0.837	0.908	0.924	0.910	0.904	3.55
17) 1,2-Dichloro	1.589	1.630	1.556	1.395	1.316	1.466	1.668	1.548	1.521	7.90
18) Acetophenone	2.341	2.370	2.221	1.907	1.818	2.051	2.366	2.255	2.166	9.94
19) 2-Methylphen	1.273	1.306	1.287	1.155	1.068	1.207	1.320	1.281	1.237	7.08
20) 2,2'-oxybis(	0.416	0.425	0.403	0.362	0.340	0.376	0.426	0.403	0.394	7.99
21) 3&4-Methylph	1.316	1.371	1.322	1.168	1.116	1.235	1.431	1.326	1.286	8.18
22) n-Nitroso-di	0.906	0.929	0.871	0.761	0.444	0.810	0.914	0.878	0.814	19.61
23) Hexachloroet	0.533	0.514	0.508	0.490	0.471	0.486	0.532	0.494	0.504	4.42
24) I Naphthalene-d8	-----ISTD-----									
25) Nitrobenzene	0.377	0.382	0.360	0.335	0.323	0.346	0.368	0.365	0.357	5.79
26) Nitrobenzene	0.385	0.398	0.370	0.334	0.317	0.351	0.400	0.384	0.367	8.37
27) Quinoline	0.878	0.897	0.865	0.817	0.788	0.828	0.860	0.869	0.850	4.25
28) Isophorone	0.648	0.669	0.645	0.584	0.565	0.607	0.651	0.651	0.628	5.95
29) 2-Nitropheno	0.175	0.190	0.201	0.194	0.188	0.199	0.188	0.194	0.191	4.25
30) 2,4-Dimethyl	0.226	0.297	0.326	0.313	0.304	0.324	0.288	0.295	0.297	10.73
31) Benzoic acid		0.117	0.207	0.267	0.264	0.255		0.152	0.210	30.30
----- Quadratic regression -----										
Response Ratio = -0.02830 + 0.27221 *A + 0.00215 *A^2										
32) bis(2-Chloro	0.402	0.419	0.395	0.362	0.347	0.376	0.414	0.399	0.389	6.56
33) 2,4-Dichloro	0.289	0.305	0.299	0.285	0.270	0.287	0.294	0.295	0.290	3.61
34) 2,6-Dichloro	0.279	0.289	0.283	0.263	0.251	0.273	0.278	0.284	0.275	4.53
35) 1,3,5-Trichl	0.399	0.411	0.391	0.357	0.337	0.369	0.407	0.398	0.384	6.90
36) 1,2,4-Trichl	0.344	0.346	0.324	0.304	0.291	0.313	0.338	0.329	0.324	6.09
37) 1,2,3-Trichl	0.386	0.383	0.361	0.327	0.308	0.345	0.370	0.367	0.356	7.66
38) Naphthalene	1.126	1.149	1.082	0.937	0.903	1.027	1.225	1.094	1.068	10.10
39) 4-Chloroanil	0.504	0.506	0.473	0.413	0.380	0.447	0.504	0.481	0.464	10.06
40) 2,3-Dichloro	0.436	0.439	0.425	0.399	0.381	0.411	0.435	0.426	0.419	4.88
41) Caprolactam	0.113	0.121	0.125	0.123	0.121	0.126	0.106	0.122	0.120	5.70
42) Hexachlorobu	0.163	0.165	0.159	0.150	0.142	0.153	0.171	0.159	0.158	5.92

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Initial Calibration Summary

Page 2 of 3

Job Number: JB67898

Sample: E2P1539-ICC1539

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 2P37001.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

43)	4-Chloro-3-m	0.293	0.316	0.317	0.302	0.292	0.311	0.310	0.315	0.307	3.28
44)	2-Methylnaph	0.636	0.659	0.630	0.581	0.552	0.606	0.655	0.637	0.619	6.00
45)	1-Methylnaph	0.732	0.740	0.720	0.641	0.603	0.688	0.749	0.725	0.700	7.48
46)	Dimethylnaph	0.719	0.725	0.694	0.617	0.588	0.660	0.723	0.694	0.678	7.61
47)	I Acenaphthene-d10	-----ISTD-----									
48)	Hexachlorocy	0.235	0.277	0.333	0.329	0.312	0.337	0.204	0.289	0.290	16.93
49)	2,4,6-Trichl	0.310	0.339	0.357	0.346	0.333	0.345	0.299	0.346	0.334	5.93
50)	2,4,5-Trichl	0.352	0.383	0.391	0.386	0.370	0.383	0.328	0.386	0.372	5.85
51)	2-Fluorobiph	1.322	1.351	1.275	1.174	1.092	1.201	1.352	1.286	1.256	7.41
52)	2-Chloronaph	1.268	1.312	1.215	1.037	0.967	1.119	1.326	1.247	1.186	11.11
53)	Biphenyl	1.866	1.914	1.820	1.539	1.391	1.681	1.903	1.845	1.745	10.95
54)	2-Nitroanili	0.325	0.362	0.369	0.343	0.334	0.352	0.295	0.354	0.342	6.90
55)	Dimethylphth	1.328	1.368	1.309	1.223	1.182	1.232	1.438	1.304	1.298	6.44
56)	Acenaphthyle	2.031	2.089	2.033	1.820	1.705	1.919	2.011	2.007	1.952	6.64
57)	2,6-Dinitrot	0.251	0.283	0.299	0.289	0.277	0.292	0.228	0.290	0.276	8.74
58)	3-Nitroanili	0.365	0.382	0.391	0.376	0.360	0.382	0.332	0.385	0.372	5.10
59)	Acenaphthene	1.263	1.278	1.248	1.133	1.074	1.183	1.314	1.238	1.216	6.61
60)	2,4-Dinitrop			0.124	0.160	0.162	0.152		0.080	0.136	25.74
----- Linear regression ----- Coefficient = 0.9997											
Response Ratio = -0.05241 + 0.17269 *A											
61)	4-Nitropheno	0.125	0.158	0.193	0.191	0.188	0.192	0.110	0.172	0.166	19.49
62)	Dibenzofuran	1.700	1.707	1.633	1.451	1.372	1.509	1.882	1.634	1.611	10.08
63)	2,4-Dinitrot	0.323	0.378	0.404	0.371	0.357	0.385	0.295	0.395	0.363	10.26
64)	2,3,4,6-Tetr	0.184	0.226	0.274	0.290	0.284	0.279	0.164	0.243	0.243	19.80
65)	Diethylphtha	1.375	1.420	1.385	1.295	1.228	1.330	1.415	1.382	1.354	4.85
66)	Fluorene	1.337	1.372	1.351	1.236	1.156	1.260	1.394	1.340	1.306	6.19
67)	4-Chlorophen	0.565	0.571	0.544	0.506	0.480	0.514	0.546	0.549	0.534	5.89
68)	4-Nitroanili	0.362	0.373	0.381	0.354	0.339	0.362	0.349	0.377	0.362	3.97
69)	I Phenanthrene-d10	-----ISTD-----									
70)	4,6-Dinitro-	0.052	0.104	0.127	0.126	0.120		0.069	0.099		32.13
----- Quadratic regression ----- Coefficient = 0.9995											
Response Ratio = -0.01315 + 0.12889 *A + 0.00129 *A^2											
71)	n-Nitrosodip	0.566	0.588	0.559	0.538	0.521	0.545	0.558	0.570	0.556	3.72
72)	1,2-Diphenyl	0.927	0.949	0.910	0.779	0.735	0.841	0.898	0.915	0.869	8.81
73)	2,4,6-Tribo		0.074	0.091	0.108	0.109	0.096		0.079	0.093	15.46
74)	4-Bromopheny	0.190	0.197	0.194	0.204	0.202	0.194	0.197	0.190	0.196	2.56
75)	Hexachlorobe	0.229	0.232	0.229	0.241	0.238	0.224	0.228	0.224	0.231	2.61
76)	Pentachlorop		0.091	0.138	0.160	0.160	0.151		0.112	0.135	20.73
----- Quadratic regression ----- Coefficient = 0.9997											
Response Ratio = -0.02066 + 0.15554 *A + 0.00188 *A^2											
77)	Phenanthrene	1.218	1.208	1.173	1.085	1.048	1.118	1.288	1.175	1.164	6.69
78)	Anthracene	1.172	1.196	1.185	1.104	1.048	1.121	1.176	1.164	1.146	4.42
79)	Carbazole	1.376	1.419	1.380	1.279	1.223	1.312	1.330	1.364	1.336	4.74
80)	Di-n-butylph	1.337	1.510	1.536	1.429	1.382	1.504	1.362	1.513	1.447	5.43
81)	Fluoranthene	1.192	1.248	1.265	1.235	1.199	1.245	1.191	1.249	1.228	2.41
82)	Octadecane	0.394	0.409	0.398	0.316	0.292	0.356	0.371	0.405	0.368	11.85
83)	I Chrysene-d12	-----ISTD-----									
84)	Pyrene	1.432	1.452	1.458	1.354	1.297	1.393	1.356	1.421	1.395	4.01
85)	Terphenyl-d1	0.775	0.814	0.828	0.817	0.787	0.800	0.751	0.793	0.796	3.12
86)	Butylbenzylp	0.529	0.658	0.733	0.713	0.696	0.736	0.484	0.685	0.654	14.58
87)	Butyl steara	0.284	0.367	0.413	0.348	0.327	0.392	0.214	0.391	0.342	19.31
88)	Benzo[a]anth	1.181	1.196	1.205	1.173	1.127	1.177	1.242	1.159	1.183	2.86
89)	3,3'-Dichlor	0.324	0.381	0.426	0.429	0.408	0.421	0.264	0.398	0.381	15.34
90)	Chrysene	1.039	1.054	1.054	1.013	0.971	1.020	1.054	1.041	1.031	2.81

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Initial Calibration Summary

Page 3 of 3

Job Number: JB67898

Sample: E2P1539-ICC1539

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 2P37001.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

91)	bis(2-Ethylh	0.631	0.827	0.979	0.936	0.904	0.969	0.883	0.876	13.67	
92)	I Perylene-d12	-----ISTD-----									
93)	Di-n-octylph	0.952	1.521	1.937	1.954	1.852	2.017	1.698	1.704	21.89	
	----- Quadratic regression -----	Coefficient = 0.9996									
	Response Ratio =	$-0.10465 + 2.27743 *A + -0.14846 *A^2$									
94)	Benzo[b]fluo	1.117	1.273	1.382	1.474	1.490	1.412	0.968	1.285	1.300	13.95
95)	Benzo[k]fluo	1.164	1.276	1.256	1.142	1.032	1.213	1.147	1.265	1.187	6.93
96)	Benzo[a]pyre	0.959	1.116	1.178	1.190	1.167	1.188	0.854	1.161	1.102	11.42
97)	Indeno[1,2,3	1.118	1.300	1.441	1.462	1.441	1.447	0.986	1.347	1.318	13.41
98)	Dibenz(a,h)a	0.827	1.030	1.190	1.258	1.223	1.227	1.124	1.126	13.57	
99)	Dibenz[a,h]a	0.887	1.055	1.145	1.165	1.130	1.145	0.789	1.096	1.052	13.19
100)	7,12-Dimethy	0.152	0.270	0.602	0.707	0.688	0.681	0.383	0.498	45.60	
	----- Quadratic regression -----	Coefficient = 0.9989									
	Response Ratio =	$-0.05997 + 0.73372 *A + -0.00567 *A^2$									
101)	Benzo[g,h,i]	0.942	1.075	1.162	1.179	1.142	1.176	0.803	1.106	1.073	12.50

(##) = Out of Range ### Number of calibration levels exceeded format ###											
M2P1539.M Fri May 30 09:28:01 2014 RPT1											

8.8.1

8

Initial Calibration Summary

Page 1 of 1

Job Number: JB67898**Sample:** E2P1540-ICC1540**Account:** LANGAN Langan Engineering & Environmental**Lab FileID:** 2P37012.D**Project:** Carroll Gardens, 363-365 Bond Street, Brooklyn, NY**Response Factor Report MS2P**

Method : C:\MSDCHEM\1\METHODS\M2P1540.M (RTE Integrator)
 Title : Semi Volatile Extractables by GC/MS
 Last Update : Thu May 29 12:40:44 2014
 Response via : Initial Calibration

Calibration Files

2 =2p37016.D 5 =2p37015.D 25 =2p37013.D 80 =2p37011.D
 100 =2p37010.D 50 =2p37012.D 1 =2p37017.D 10 =2p37014.D

Compound	2	5	25	80	100	50	1	10	Avg %RSD
102) I 1,4-Dichlorobenzene-d	-----ISTD-----								
103) Benzaldehyde	1.066	1.106	1.108	1.004	0.946	1.059	1.087	1.116	1.061 5.57
104) Acenaphthene-d10a	-----ISTD-----								
105) Atrazine	0.095	0.122	0.144	0.159	0.159	0.155		0.139	0.139 16.84
106) 1,2,4,5-Tetr	0.534	0.551	0.551	0.564	0.564	0.560	0.530	0.554	0.551 2.31
107) I Chrysene-d12a	-----ISTD-----								
108) 1-chloroocta	0.289	0.364	0.393	0.343	0.333	0.369	0.278	0.386	0.344 12.42
109) Benzidine		0.697	0.834	0.578	0.518	0.812		0.804	0.707 18.89
110) I Phenanthrene-d10a	-----ISTD-----								
111) O-terphenyl	0.464	0.501	0.505	0.500	0.487	0.508	0.471	0.503	0.492 3.40
112) I Naphthalene-d8a	-----ISTD-----								
113) Hydroquinone		0.279	0.363	0.375	0.369	0.378		0.323	0.348 11.25

(#)= Out of Range ### Number of calibration levels exceeded format ###									

M2P1539.M

Thu May 29 12:41:00 2014

RPT1

8.8.2

8

Initial Calibration Verification

Page 1 of 1

Job Number: JB67898

Sample: E2P1540-ICV1539

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 2P37018.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\2P1540\2p37018.D Vial: 10
 Acq On : 29 May 2014 12:30 pm Operator: olgaa
 Sample : icv1539-50 Inst : MS2P
 Misc : op75027,e2p1540, Multiplr: 1.00
 MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M2P1539.M (RTE Integrator)
 Title : Semi Volatile Extractables by GC/MS
 Last Update : Thu May 29 16:31:28 2014
 Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	123	0.00	3.62
5 S	2-Fluorophenol	1.368	1.165	14.8	104	0.00	2.53
8 S	Phenol-d5	1.653	1.359	17.8	101	0.00	3.27
24 I	Naphthalene-d8	1.000	1.000	0.0	119	0.00	4.96
25 S	Nitrobenzene-d5	0.357	0.314	12.0	108	-0.01	4.18
47 I	Acenaphthene-d10	1.000	1.000	0.0	111	0.00	7.03
51 S	2-Fluorobiphenyl	1.256	1.180	6.1	110	0.00	6.24
69 I	Phenanthrene-d10	1.000	1.000	0.0	106	0.00	8.83
73 S	2,4,6-Tribromophenol	0.093	0.067	28.0	74	-0.01	7.98
83 I	Chrysene-d12	1.000	1.000	0.0	98	-0.01	12.57
85 S	Terphenyl-d14	0.796	0.775	2.6	95	0.00	11.04

(#) = Out of Range
 2p37001.D M2P1539.M

SPCC's out = 0 CCC's out = 0
 Thu May 29 16:37:44 2014 RPT1

Initial Calibration Verification

Page 1 of 1

Job Number: JB67898

Sample: E2P1540-ICV1540

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 2P37019A.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\2P1540\2p37019a.D Vial: 11
Acq On : 29 May 2014 12:53 pm Operator: olgaa
Sample : icv1540-50 Inst : MS2P
Misc : op75027,e2p1540, Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M2P1539.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu May 29 16:56:51 2014
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
102 I	1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	86	0.00	3.62
103	Benzaldehyde	1.061	1.078	-1.6	88	0.00	3.22
104	Acenaphthene-d10a	1.000	1.000	0.0	89	0.00	7.03
105	Atrazine	0.139	0.134	3.6	77	0.00	8.53

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

2p37012.D M2P1539.M

Thu May 29 16:58:16 2014 RPT1

8.8.4

8

Initial Calibration Verification

Page 1 of 1

Job Number: JB67898

Sample: E2P1540-ICV1539

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 2P37019.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\2P1540\2p37019.D

Vial: 11

Acq On : 29 May 2014 12:53 pm

Operator: olgaa

Sample : icv1539-50

Inst : MS2P

Misc : op75027,e2p1540,

Multiplr: 1.00

MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M2P1539.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Fri May 30 09:21:22 2014

Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min

Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	102	0.00	3.62
2 t	1,4-Dioxane	0.597	0.512	14.2	87	0.00	1.62
6 t	Indene	2.631	2.237	15.0	90	0.00	3.88
7 t	Cumene	3.781	3.078	18.6	83	0.00	2.92
13 t	Decane	1.530	1.197	21.8	85	0.00	3.47
18 t	Acetophenone	2.166	1.722	20.5	86	0.00	4.02
24 I	Naphthalene-d8	1.000	1.000	0.0	101	0.00	4.96
27 t	Quinoline	0.850	0.661	22.2	81	-0.02	5.36
40 t	2,3-Dichloroaniline	0.419	0.275	34.4#	68	0.00	6.13
41 t	Caprolactam	0.120	0.087	27.5	69	-0.05	5.43
45 t	1-Methylnaphthalene	0.700	0.543	22.4	80	0.00	5.91
46 t	Dimethylnaphthalene	0.678	0.524	22.7	80	0.00	6.54
47 I	Acenaphthene-d10	1.000	1.000	0.0	97	0.00	7.03
48 t	Hexachlorocyclopentadiene	0.290	0.252	13.1	72	0.00	5.99
53 t	Biphenyl	1.745	1.409	19.3	81	0.00	6.35
69 I	Phenanthrene-d10	1.000	1.000	0.0	92	0.00	8.83
82 t	Octadecane	0.368	0.297	19.3	77	0.00	8.79
92 I	Perylene-d12	1.000	1.000	0.0	90	-0.01	14.62
----- True Calc. % Drift -----							
100 t	7,12-Dimethylbenz(a)anthr	50.000	39.782	20.4	70	-0.02	14.12

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

2p37012.D M2P1539.M

Fri May 30 13:37:08 2014 RPT1

Initial Calibration Verification

Job Number: JB67898

Sample: E2P1540-ICV1539

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 2P37020.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\2P1540\2p37020.D

Vial: 12

Acq On : 29 May 2014 1:24 pm

Operator: olgaa

Sample : icv1539-50

Inst : MS2P

Misc : op75027,e2p1540,

Multiplr: 1.00

MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M2P1539.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Fri May 30 09:21:22 2014

Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min

Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	112	0.00	3.62
3 t	Pyridine	1.537	1.223	20.4	90	0.00	1.78
4 t	N-Nitrosodimethylamine	0.769	0.677	12.0	99	0.00	1.75
11 t	bis(2-Chloroethyl)ether	1.235	1.165	5.7	109	0.00	3.36
14 t	1,3-Dichlorobenzene	1.635	1.474	9.8	104	0.00	3.57
15 t	1,4-Dichlorobenzene	1.620	1.437	11.3	102	0.00	3.64
16 t	Benzyl alcohol	0.904	0.794	12.2	98	0.00	3.75
17 t	1,2-Dichlorobenzene	1.521	1.340	11.9	103	0.00	3.79
20 t	2,2'-oxybis(1-Chloropropa	0.394	0.361	8.4	108	0.00	3.89
22 t	n-Nitroso-di-n-propylamin	0.814	0.783	3.8	108	-0.01	4.03
23 t	Hexachloroethane	0.504	0.439	12.9	101	0.00	4.14
24 I	Naphthalene-d8	1.000	1.000	0.0	106	0.00	4.97
26 t	Nitrobenzene	0.367	0.324	11.7	98	0.00	4.20
28 t	Isophorone	0.628	0.545	13.2	95	-0.01	4.45
32 t	bis(2-Chloroethoxy)methan	0.389	0.378	2.8	107	0.00	4.70
36 t	1,2,4-Trichlorobenzene	0.324	0.296	8.6	100	0.00	4.91
38 t	Naphthalene	1.068	0.947	11.3	98	0.00	4.99
42 t	Hexachlorobutadiene	0.158	0.145	8.2	100	0.00	5.15
44 t	2-Methylnaphthalene	0.619	0.563	9.0	99	0.00	5.79
47 I	Acenaphthene-d10	1.000	1.000	0.0	102	0.00	7.03
52 t	2-Chloronaphthalene	1.186	1.123	5.3	102	0.00	6.36
54 t	2-Nitroaniline	0.342	0.307	10.2	89	0.00	6.50
55 t	Dimethylphthalate	1.298	1.191	8.2	99	0.00	6.74
56 t	Acenaphthylene	1.952	1.520	22.1	81	0.00	6.85
57 t	2,6-Dinitrotoluene	0.276	0.246	10.9	86	0.00	6.80
58 t	3-Nitroaniline	0.372	0.294	21.0	79	0.00	6.99
59 t	Acenaphthene	1.216	1.129	7.2	97	0.00	7.07
62 t	Dibenzofuran	1.611	1.466	9.0	99	0.00	7.28
63 t	2,4-Dinitrotoluene	0.363	0.315	13.2	84	0.00	7.28
65 t	Diethylphthalate	1.354	1.247	7.9	96	-0.01	7.60
66 t	Fluorene	1.306	1.225	6.2	99	0.00	7.69
67 t	4-Chlorophenyl-phenylethe	0.534	0.502	6.0	100	0.00	7.71
68 t	4-Nitroaniline	0.362	0.315	13.0	89	-0.01	7.73
69 I	Phenanthrene-d10	1.000	1.000	0.0	104	0.00	8.83
71 t	n-Nitrosodiphenylamine	0.556	0.510	8.3	97	0.00	7.86
72 t	1,2-Diphenylhydrazine	0.869	0.760	12.5	94	0.00	7.90
74 t	4-Bromophenyl-phenylether	0.196	0.182	7.1	97	0.00	8.30

Initial Calibration Verification

Page 2 of 2

Job Number: JB67898

Sample: E2P1540-ICV1539

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 2P37020.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

75 t	Hexachlorobenzene	0.231	0.201	13.0	93	0.00	8.36
77 t	Phenanthrene	1.164	1.039	10.7	96	0.00	8.86
78 t	Anthracene	1.146	1.042	9.1	96	0.00	8.92
79 t	Carbazole	1.336	1.039	22.2	82	0.00	9.14
80 t	Di-n-butylphthalate	1.447	1.319	8.8	91	0.00	9.67
81 t	Fluoranthene	1.228	1.092	11.1	91	0.00	10.45
83 I	Chrysene-d12	1.000	1.000	0.0	96	0.00	12.57
84 t	Pyrene	1.395	1.286	7.8	89	0.00	10.76
86 t	Butylbenzylphthalate	0.654	0.659	-0.8	86	0.00	11.82
88 t	Benzo[a]anthracene	1.183	1.068	9.7	87	0.00	12.56
90 t	Chrysene	1.031	0.987	4.3	93	-0.01	12.61
91 t	bis(2-Ethylhexyl)phthalat	0.876	0.859	1.9	85	0.00	12.75
92 I	Perylene-d12	1.000	1.000	0.0	98	0.00	14.63
----- True Calc. % Drift -----							
93 t	Di-n-octylphthalate	50.000	42.190	15.6	83	0.00	13.71
----- AvgRF CCRF % Dev -----							
94 t	Benzo[b]fluoranthene	1.300	1.154	11.2	80	-0.01	14.11
95 t	Benzo[k]fluoranthene	1.187	1.141	3.9	92	-0.01	14.16
96 t	Benzo[a]pyrene	1.102	1.067	3.2	88	-0.01	14.55
97 t	Indeno[1,2,3-cd]pyrene	1.318	1.262	4.2	85	-0.02	16.08
99 t	Dibenz[a,h]anthracene	1.052	1.011	3.9	87	-0.01	16.13
101 t	Benzo[g,h,i]perylene	1.073	1.055	1.7	88	-0.01	16.50

(#) = Out of Range
 2p37012.D M2P1539.M

SPCC's out = 0 CCC's out = 0
 Fri May 30 09:24:39 2014 RPT1

8.86
8

Initial Calibration Verification

Page 1 of 1

Job Number: JB67898

Sample: E2P1540-ICV1540

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 2P37020A.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\2P1540\2p37020a.D Vial: 12
Acq On : 29 May 2014 1:24 pm Operator: olgaa
Sample : icv1540-50 Inst : MS2P
Misc : op75027,e2p1540, Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M2P1539.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu May 29 16:56:51 2014
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
104	Acenaphthene-d10a	1.000	1.000	0.0	94	0.00	7.03
106	1,2,4,5-Tetrachlorobenzen	0.551	0.573	-4.0	96	0.00	5.99

(#) = Out of Range
2p37012.D M2P1539.M

SPCC's out = 0 CCC's out = 0
Thu May 29 16:59:56 2014 RPT1

Initial Calibration Verification

Page 1 of 1

Job Number: JB67898

Sample: E2P1540-ICV1539

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 2P37022.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\2P1540\2p37022.D Vial: 14
Acq On : 29 May 2014 2:43 pm Operator: olgaa
Sample : icv1539-50 Inst : MS2P
Misc : op75027,e2p1540, Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M2P1539.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu May 29 16:41:02 2014
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	137	0.00	3.62
10	Aniline	1.890	2.017	-6.7	160	0.00	3.31
24 I	Naphthalene-d8	1.000	1.000	0.0	136	0.00	4.97
39 t	4-Chloroaniline	0.464	0.458	1.3	139	0.00	5.06

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

2p37012.D M2P1539.M

Thu May 29 16:50:02 2014 RPT1

Initial Calibration Verification

Page 1 of 1

Job Number: JB67898

Sample: E2P1540-ICV1539

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 2P37023.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\2P1540\2p37023.D Vial: 15
Acq On : 29 May 2014 3:06 pm Operator: olgaa
Sample : icv1539-50 Inst : MS2P
Misc : op75027,e2p1540, Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M2P1539.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu May 29 16:41:02 2014
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
83 I Chrysene-d12	1.000	1.000	0.0	190	0.00	12.57
89 t 3,3'-Dichlorobenzidine	0.381	0.373	2.1	169	0.00	12.57

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

2p37012.D M2P1539.M

Thu May 29 16:51:21 2014 RPT1

Initial Calibration Verification

Page 1 of 1

Job Number: JB67898

Sample: E2P1540-ICV1540

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 2P37023A.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\2P1540\2p37023a.D Vial: 15
Acq On : 29 May 2014 3:06 pm Operator: olgaa
Sample : icv1540-50 Inst : MS2P
Misc : op75027,e2p1540, Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M2P1539.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu May 29 16:56:51 2014
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
107 I	Chrysene-d12a	1.000	1.000	0.0	175	0.00	12.57
109	Benzidine	0.707	0.766	-8.3	165	0.00	10.68

(#) = Out of Range
2p37012.D M2P1539.M

SPCC's out = 0 CCC's out = 0
Thu May 29 17:02:08 2014 RPT1

8.8.10

8

Initial Calibration Verification

Page 1 of 1

Job Number: JB67898

Sample: E2P1540-ICV1540

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 2P37024.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\2P1540\2p37024.D Vial: 16
Acq On : 29 May 2014 3:29 pm Operator: olgaa
Sample : icv1540-50 Inst : MS2P
Misc : op75027,e2p1540, Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M2P1539.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu May 29 16:41:02 2014
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
112 I Naphthalene-d8a	1.000	1.000	0.0	107	0.00	4.97
113 Hydroquinone	0.348	0.361	-3.7	103	0.00	5.47

(#) = Out of Range
2p37012.D M2P1539.M

SPCC's out = 0 CCC's out = 0
Thu May 29 16:52:27 2014 RPT1

8.8.11

8

Initial Calibration Verification

Page 1 of 1

Job Number: JB67898

Sample: E2P1541-ICV1539

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 2P37028.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\2P1541\2p37028.D

Vial: 3

Acq On : 29 May 2014 7:03 pm

Operator: ashleyd

Sample : icv1539-50

Inst : MS2P

Misc : op75027,e2p1541

Multiplr: 1.00

MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M2P1539.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Fri May 30 09:21:22 2014

Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min

Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	105	0.00	3.62
9 t	Phenol	1.773	1.653	6.8	99	-0.01	3.27
12 t	2-Chlorophenol	1.511	1.468	2.8	104	0.00	3.42
19 t	2-Methylphenol	1.237	1.227	0.8	106	-0.01	3.86
21 t	3&4-Methylphenol	1.286	1.259	2.1	107	-0.02	4.01
24 I	Naphthalene-d8	1.000	1.000	0.0	100	-0.01	4.96
29 t	2-Nitrophenol	0.191	0.193	-1.0	97	-0.02	4.53
30 t	2,4-Dimethylphenol	0.297	0.354	-19.2	109	-0.01	4.59
	----- True Calc. % Drift -----						
31 t	Benzoic acid	50.000	42.437	15.1	83	-0.03	4.73
	----- AvgRF CCRF % Dev -----						
33 t	2,4-Dichlorophenol	0.290	0.290	0.0	101	-0.01	4.80
34 t	2,6-Dichlorophenol	0.275	0.286	-4.0	105	-0.01	5.06
43 t	4-Chloro-3-methylphenol	0.307	0.294	4.2	95	-0.03	5.62
47 I	Acenaphthene-d10	1.000	1.000	0.0	101	-0.01	7.02
49 t	2,4,6-Trichlorophenol	0.334	0.354	-6.0	103	-0.01	6.13
50 t	2,4,5-Trichlorophenol	0.372	0.375	-0.8	99	-0.02	6.16
	----- True Calc. % Drift -----						
60 t	2,4-Dinitrophenol	100.000	70.900	29.1	54	-0.02	7.11
	----- AvgRF CCRF % Dev -----						
61 t	4-Nitrophenol	0.166	0.176	-6.0	92	-0.01	7.21
64	2,3,4,6-Tetrachlorophenol	0.243	0.261	-7.4	94	-0.01	7.43
69 I	Phenanthrene-d10	1.000	1.000	0.0	95	-0.01	8.82
	----- True Calc. % Drift -----						
70 t	4,6-Dinitro-2-methylpheno	50.000	42.463	15.1	80	-0.02	7.75
76 t	Pentachlorophenol	100.000	97.998	2.0	88	-0.02	8.60

(#) = Out of Range
2p37012.D M2P1539.M

SPCC's out = 0 CCC's out = 0
Fri May 30 09:32:48 2014 RPT1

Continuing Calibration Summary

Page 1 of 3

Job Number: JB67898

Sample: E2P1542-CC1539

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 2P37030.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\2P1542\2p37030.D

Vial: 2

Acq On : 30 May 2014 9:02 am

Operator: harpreek

Sample : cc1539-50

Inst : MS2P

Misc : op75027,e2p1542

Multiplr: 1.00

MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M2P1539.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Fri May 30 09:21:22 2014

Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min

Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	116	0.00	3.62
2 t	1,4-Dioxane	0.597	0.614	-2.8	118	0.00	1.62
3 t	Pyridine	1.537	1.476	4.0	112	0.00	1.77
4 t	N-Nitrosodimethylamine	0.769	0.751	2.3	113	0.00	1.75
5 S	2-Fluorophenol	1.368	1.373	-0.4	115	0.00	2.52
6 t	Indene	2.631	2.499	5.0	114	0.00	3.88
7 t	Cumene	3.781	3.735	1.2	114	0.00	2.92
8 S	Phenol-d5	1.653	1.628	1.5	114	0.00	3.27
9 t	Phenol	1.773	1.710	3.6	113	0.00	3.28
10	Aniline	1.890	1.667	11.8	112	0.00	3.31
11 t	bis(2-Chloroethyl)ether	1.235	1.181	4.4	114	0.00	3.37
12 t	2-Chlorophenol	1.511	1.451	4.0	114	0.00	3.43
13 t	Decane	1.530	1.383	9.6	111	0.00	3.47
14 t	1,3-Dichlorobenzene	1.635	1.594	2.5	116	0.00	3.57
15 t	1,4-Dichlorobenzene	1.620	1.582	2.3	116	0.00	3.64
16 t	Benzyl alcohol	0.904	0.892	1.3	114	0.00	3.75
17 t	1,2-Dichlorobenzene	1.521	1.473	3.2	116	0.00	3.79
18 t	Acetophenone	2.166	1.985	8.4	112	0.00	4.02
19 t	2-Methylphenol	1.237	1.195	3.4	115	0.00	3.87
20 t	2,2'-oxybis(1-Chloropropa	0.394	0.372	5.6	114	0.00	3.89
21 t	3&4-Methylphenol	1.286	1.197	6.9	112	0.00	4.03
22 t	n-Nitroso-di-n-propylamin	0.814	0.783	3.8	112	0.00	4.03
23 t	Hexachloroethane	0.504	0.501	0.6	119	0.00	4.13
24 I	Naphthalene-d8	1.000	1.000	0.0	116	0.00	4.96
25 S	Nitrobenzene-d5	0.357	0.346	3.1	116	0.00	4.18
26 t	Nitrobenzene	0.367	0.348	5.2	115	0.00	4.20
27 t	Quinoline	0.850	0.830	2.4	116	0.00	5.37
28 t	Isophorone	0.628	0.608	3.2	116	0.00	4.46
29 t	2-Nitrophenol	0.191	0.198	-3.7	115	0.00	4.54
30 t	2,4-Dimethylphenol	0.297	0.320	-7.7	114	0.00	4.60
	----- True		Calc.	% Drift		-----	
31 t	Benzoic acid	50.000	41.963	16.1	94	-0.01	4.75
	----- AvgRF		CCRF	% Dev		-----	
32 t	bis(2-Chloroethoxy)methan	0.389	0.372	4.4	114	0.00	4.70
33 t	2,4-Dichlorophenol	0.290	0.291	-0.3	117	0.00	4.81
34 t	2,6-Dichlorophenol	0.275	0.275	0.0	116	0.00	5.07
35	1,3,5-Trichlorobenzene	0.384	0.372	3.1	116	0.00	4.56
36 t	1,2,4-Trichlorobenzene	0.324	0.319	1.5	118	0.00	4.90
37	1,2,3-Trichlorobenzene	0.356	0.346	2.8	116	0.00	5.15

Continuing Calibration Summary

Job Number: JB67898

Sample: E2P1542-CC1539

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 2P37030.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

38 t	Naphthalene	1.068	1.012	5.2	114	0.00	4.99
39 t	4-Chloroaniline	0.464	0.438	5.6	113	0.00	5.06
40 t	2,3-Dichloroaniline	0.419	0.415	1.0	117	0.00	6.12
41 t	Caprolactam	0.120	0.125	-4.2	114	0.00	5.47
42 t	Hexachlorobutadiene	0.158	0.158	0.0	119	0.00	5.15
43 t	4-Chloro-3-methylphenol	0.307	0.312	-1.6	116	0.00	5.65
44 t	2-Methylnaphthalene	0.619	0.610	1.5	116	0.00	5.79
45 t	1-Methylnaphthalene	0.700	0.679	3.0	114	0.00	5.90
46 t	Dimethylnaphthalene	0.678	0.662	2.4	116	0.00	6.53
47 I	Acenaphthene-d10	1.000	1.000	0.0	117	0.00	7.03
48 t	Hexachlorocyclopentadiene	0.290	0.339	-16.9	117	0.00	5.99
49 t	2,4,6-Trichlorophenol	0.334	0.351	-5.1	119	0.00	6.13
50 t	2,4,5-Trichlorophenol	0.372	0.391	-5.1	119	0.00	6.18
51 S	2-Fluorobiphenyl	1.256	1.202	4.3	117	0.00	6.23
52 t	2-Chloronaphthalene	1.186	1.107	6.7	116	0.00	6.36
53 t	Biphenyl	1.745	1.660	4.9	115	0.00	6.35
54 t	2-Nitroaniline	0.342	0.342	0.0	113	0.00	6.50
55 t	Dimethylphthalate	1.298	1.254	3.4	119	0.00	6.74
56 t	Acenaphthylene	1.952	1.890	3.2	115	-0.01	6.85
57 t	2,6-Dinitrotoluene	0.276	0.295	-6.9	118	0.00	6.80
58 t	3-Nitroaniline	0.372	0.385	-3.5	118	0.00	6.99
59 t	Acenaphthene	1.216	1.166	4.1	115	0.00	7.07
----- True Calc. % Drift -----							
60 t	2,4-Dinitrophenol	100.000	92.730	7.3	107	0.00	7.12
----- AvgRF CCRF % Dev -----							
61 t	4-Nitrophenol	0.166	0.190	-14.5	115	0.00	7.22
62 t	Dibenzofuran	1.611	1.524	5.4	118	0.00	7.28
63 t	2,4-Dinitrotoluene	0.363	0.389	-7.2	118	0.00	7.28
64	2,3,4,6-Tetrachlorophenol	0.243	0.290	-19.3	122	0.00	7.43
65 t	Diethylphthalate	1.354	1.330	1.8	117	-0.01	7.60
66 t	Fluorene	1.306	1.298	0.6	120	0.00	7.69
67 t	4-Chlorophenyl-phenylethe	0.534	0.527	1.3	120	0.00	7.71
68 t	4-Nitroaniline	0.362	0.359	0.8	116	0.00	7.74
69 I	Phenanthrene-d10	1.000	1.000	0.0	117	0.00	8.83
----- True Calc. % Drift -----							
70 t	4,6-Dinitro-2-methylpheno	50.000	49.256	1.5	115	0.00	7.77
----- AvgRF CCRF % Dev -----							
71 t	n-Nitrosodiphenylamine	0.556	0.543	2.3	116	0.00	7.86
72 t	1,2-Diphenylhydrazine	0.869	0.808	7.0	112	0.00	7.90
73 S	2,4,6-Tribromophenol	0.093	0.100	-7.5	122	-0.01	7.98
74 t	4-Bromophenyl-phenylether	0.196	0.201	-2.6	121	0.00	8.29
75 t	Hexachlorobenzene	0.231	0.237	-2.6	123	-0.01	8.36
----- True Calc. % Drift -----							
76 t	Pentachlorophenol	100.000	100.221	-0.2	118	0.00	8.61
----- AvgRF CCRF % Dev -----							
77 t	Phenanthrene	1.164	1.127	3.2	118	-0.01	8.86
78 t	Anthracene	1.146	1.130	1.4	117	-0.01	8.92
79 t	Carbazole	1.336	1.306	2.2	116	0.00	9.14
80 t	Di-n-butylphthalate	1.447	1.497	-3.5	116	0.00	9.66
81 t	Fluoranthene	1.228	1.265	-3.0	119	0.00	10.45
82 t	Octadecane	0.368	0.334	9.2	109	-0.01	8.78

8.8.13

8

Continuing Calibration Summary

Page 3 of 3

Job Number: JB67898

Sample: E2P1542-CC1539

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 2P37030.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

83	I	Chrysene-d12	1.000	1.000	0.0	120	0.00	12.57
84	t	Pyrene	1.395	1.364	2.2	118	-0.01	10.76
85	S	Terphenyl-d14	0.796	0.801	-0.6	121	-0.01	11.04
86	t	Butylbenzylphthalate	0.654	0.714	-9.2	117	-0.01	11.81
87		Butyl stearate	0.342	0.360	-5.3	111	-0.01	11.98
88	t	Benzo[a]anthracene	1.183	1.165	1.5	119	-0.01	12.55
89	t	3,3'-Dichlorobenzidine	0.381	0.424	-11.3	121	-0.01	12.56
90	t	Chrysene	1.031	1.022	0.9	121	-0.01	12.61
91	t	bis(2-Ethylhexyl)phthalat	0.876	0.945	-7.9	117	-0.01	12.74
92	I	Perylene-d12	1.000	1.000	0.0	123	-0.01	14.62
----- True Calc. % Drift -----								
93	t	Di-n-octylphthalate	50.000	48.728	2.5	119	0.00	13.71
----- AvgRF CCRF % Dev -----								
94	t	Benzo[b]fluoranthene	1.300	1.440	-10.8	125	0.00	14.12
95	t	Benzo[k]fluoranthene	1.187	1.164	1.9	118	0.00	14.16
96	t	Benzo[a]pyrene	1.102	1.172	-6.4	121	-0.01	14.55
97	t	Indeno[1,2,3-cd]pyrene	1.318	1.223	7.2	104	-0.02	16.08
98	t	Dibenz(a,h)acridine	1.126	1.209	-7.4	121	-0.01	15.76
99	t	Dibenz[a,h]anthracene	1.052	1.147	-9.0	123	-0.02	16.12
----- True Calc. % Drift -----								
100	t	7,12-Dimethylbenz(a)anthr	50.000	49.268	1.5	120	-0.01	14.12
----- AvgRF CCRF % Dev -----								
101	t	Benzo[g,h,i]perylene	1.073	1.173	-9.3	122	-0.02	16.49

(#) = Out of Range
2p37012.D M2P1539.M

SPCC's out = 0 CCC's out = 0
Fri May 30 14:16:58 2014 RPT1

8.8.13

8

Continuing Calibration Summary

Page 1 of 1

Job Number: JB67898**Sample:** E2P1542-CC1540**Account:** LANGAN Langan Engineering & Environmental**Lab FileID:** 2P37031.D**Project:** Carroll Gardens, 363-365 Bond Street, Brooklyn, NY**Evaluate Continuing Calibration Report**

Data File : C:\msdchem\1\DATA\2P1542\2p37031.D Vial: 3
 Acq On : 30 May 2014 9:41 am Operator: harpreek
 Sample : cc1540-50 Inst : MS2P
 Misc : op75027,e2p1542 Multiplr: 1.00
 MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M2P1539.M (RTE Integrator)
 Title : Semi Volatile Extractables by GC/MS
 Last Update : Sat May 31 12:09:49 2014
 Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.

102 I	1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	90	0.00	3.61
103	Benzaldehyde	1.061	0.867	18.3	74	-0.01	3.21
104	Acenaphthene-d10a	1.000	1.000	0.0	87	0.00	7.02
105	Atrazine	0.139	0.161	-15.8	90	-0.01	8.52
106	1,2,4,5-Tetrachlorobenzen	0.551	0.586	-6.4	91	0.00	5.99
107 I	Chrysene-d12a	1.000	1.000	0.0	89	-0.06	12.56
108	Benzidine	0.707	0.574	18.8	63	-0.01	10.67
109 I	Naphthalene-d8a	1.000	1.000	0.0	90	0.00	4.96
110	Hydroquinone	0.348	0.363	-4.3	86	-0.01	5.45

(#) = Out of Range
 2p37056.D M2P1539.M

SPCC's out = 0 CCC's out = 0
 Sat May 31 12:30:07 2014 RPT1

8.8.14

8

Initial Calibration Summary

Page 1 of 1

Job Number: JB67898

Sample: E6P276-ICC276

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 6P6524.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Response Factor Report MS6P

Method : C:\MSDCHEM\1\METHODS\M6P277.M (RTE Integrator)
 Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 Last Update : Mon Apr 28 13:21:06 2014
 Response via : Initial Calibration

Calibration Files

100 =6p6527.D 80 =6p6526.D 50 =6p6524.D 25 =6p6525.D
 10 =6p6528.D 5 =6p6529.D 2 =6p6530.D 1 =6p6531.D

Compound	100	80	50	25	10	5	2	1	Avg	%RSD
102) 1,4-Dichlorobenzene-d	-----ISTD-----									
103) Benzaldehyde	1.350	1.373	1.338	1.412	1.418	1.443	1.673	1.430	1.430	7.37
104) Phenanthrene-d10a	-----ISTD-----									
105) Atrazine	0.119	0.117	0.111	0.112	0.112	0.110	0.123	0.114	0.115	3.86
106) o-terphenyl	0.571	0.577	0.539	0.555	0.558	0.581	0.691	0.616	0.586	8.26
107) Chrysene-d12a	-----ISTD-----									
108) Benzidine	0.420	0.542	0.650	0.712	0.693	0.665	0.708	0.504	0.612	17.84
109) 1-chloroocta	0.366	0.362	0.329	0.351	0.354	0.352	0.405	0.341	0.357	6.32
110) Acenaphthene-d10a	-----ISTD-----									
111) 1,2,4,5-Tetr	0.536	0.529	0.494	0.501	0.528	0.520	0.620	0.557	0.536	7.33
112) I Naphthalene-d8a	-----ISTD-----									
113) Hydroquinone	0.470	0.465	0.436	0.409	0.346	0.290	0.367		0.398	16.71

(#) = Out of Range ### Number of calibration levels exceeded format ###										

M6P277.M

Mon Apr 28 13:27:21 2014

RPT1

88.15

8

Initial Calibration Summary

Page 1 of 3

Job Number: JB67898

Sample: E6P277-ICC277

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 6P6545.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Response Factor Report MS6P

Method : C:\MSDCHEM\1\METHODS\M6P277.M (RTE Integrator)
 Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 Last Update : Mon Apr 28 13:21:06 2014
 Response via : Initial Calibration

Calibration Files

100 =6p6543.D 80 =6p6544.D 50 =6p6545.D 25 =6p6546.D
 10 =6p6547.D 5 =6p6548.D 2 =6p6549.D 1 =6p6542.D

Compound	100	80	50	25	10	5	2	1	Avg	%RSD
1) I 1,4-Dichlorobenzene-d	-----ISTD-----									
2) 1,4-Dioxane	0.644	0.621	0.860	0.852	0.648	0.592	0.577	0.749	0.693	16.33
3) Pyridine	1.791	1.792	2.365	2.334	1.556	1.734	1.461	1.470	1.813	19.68
4) N-Nitrosodim	1.056	1.040	1.203	1.188	1.006	1.068	0.966	0.983	1.064	8.32
5) 2-Fluorophen	1.488	1.490	1.578	1.547	1.432	1.463	1.292	1.239	1.441	8.23
6) Indene	2.417	2.453	3.297	3.295	2.506	2.617	2.385	2.445	2.677	14.50
7) Cumene	3.835	3.819	5.186	5.197	3.953	4.096	3.915	3.979	4.247	13.87
8) Phenol-d5	2.047	2.040	2.200	2.240	2.114	2.183	1.915	1.747	2.061	7.99
9) Phenol	2.232	2.255	2.741	2.730	2.402	2.443	2.179	2.069	2.381	10.43
10) Aniline	2.088	2.109	3.154	3.144	2.493	2.805	2.572	2.655	2.627	15.48
11) bis(2-Chloro	1.557	1.588	1.830	1.849	1.638	1.713	1.585	1.602	1.670	6.86
12) 2-Chlorophen	1.315	1.328	1.566	1.555	1.330	1.407	1.200	1.216	1.365	10.09
13) Decane	0.891	0.898	1.208	1.228	0.937	1.045	0.937	0.917	1.007	13.73
14) 1,3-Dichloro	1.366	1.387	1.597	1.598	1.393	1.477	1.426	1.344	1.448	6.90
15) 1,4-Dichloro	1.372	1.401	1.620	1.624	1.417	1.451	1.375	1.388	1.456	7.24
16) Benzyl alcoh	0.951	0.957	1.192	1.178	1.024	1.038	0.883	0.807	1.004	13.34
17) 1,2-Dichloro	1.256	1.269	1.506	1.509	1.327	1.421	1.281	1.317	1.361	7.63
18) Acetophenone	2.246	2.280	3.134	3.141	2.366	2.476	2.203	2.232	2.510	15.82
19) 2-Methylphen	1.308	1.320	1.633	1.690	1.426	1.417	1.209	1.160	1.396	13.50
20) 2,2'-oxybis(	0.440	0.447	0.538	0.523	0.475	0.488	0.437	0.482	0.479	7.82
21) 3&4-Methylph	1.471	1.503	1.792	1.789	1.492	1.540	1.249	1.160	1.500	14.92
22) n-Nitroso-di	1.176	1.182	1.475	1.535	1.355	1.441	1.320	1.303	1.348	9.70
23) Hexachloroet	0.453	0.456	0.536	0.537	0.472	0.489	0.514	0.462	0.490	7.08
24) I Naphthalene-d8	-----ISTD-----									
25) Nitrobenzene	0.506	0.514	0.576	0.573	0.528	0.549	0.493	0.486	0.528	6.58
26) Nitrobenzene	0.508	0.511	0.611	0.613	0.538	0.559	0.500	0.506	0.543	8.62
27) Quinoline	0.662	0.666	0.879	0.863	0.650	0.691	0.612	0.579	0.700	15.84
28) Isophorone	0.844	0.848	1.033	1.035	0.896	0.927	0.848	0.764	0.899	10.61
29) 2-Nitropheno	0.172	0.175	0.203	0.200	0.173	0.179	0.150	0.135	0.173	13.11
30) 2,4-Dimethyl	0.404	0.403	0.494	0.496	0.330	0.330			0.409	18.01
31) Benzoic Acid	0.293	0.322	0.262	0.173	0.124	0.075			0.208	47.60
32) bis(2-Chloro	0.468	0.473	0.554	0.556	0.473	0.516	0.481	0.446	0.496	8.32
33) 2,4-Dichloro	0.253	0.258	0.298	0.298	0.248	0.249	0.206	0.187	0.249	15.58
34) 2,6-Dichloro	0.246	0.251	0.295	0.293	0.245	0.262	0.223	0.213	0.254	11.67
35) 1,3,5-Trichl	0.278	0.283	0.382	0.384	0.292	0.318	0.292	0.290	0.315	13.83
36) 1,2,4-Trichl	0.271	0.275	0.319	0.328	0.282	0.296	0.269	0.275	0.290	7.79
37) 1,2,3-Trichl	0.267	0.271	0.363	0.362	0.275	0.301	0.277	0.277	0.299	13.52
38) Naphthalene	0.952	0.946	1.145	1.131	0.973	1.027	0.963	0.974	1.014	7.92
39) 4-Chloroanil	0.394	0.397	0.502	0.490	0.418	0.440	0.398	0.377	0.427	10.93
40) 2,3-Dichloro	0.322	0.331	0.432	0.425	0.322	0.347	0.307	0.282	0.346	15.72
41) Caprolactam	0.135	0.135	0.180	0.175	0.132	0.130	0.118		0.144	16.78
42) Hexachlorobu	0.155	0.155	0.184	0.182	0.162	0.167	0.154	0.149	0.163	8.08
43) 4-Chloro-3-m	0.376	0.381	0.443	0.436	0.373	0.382	0.336	0.310	0.380	11.79
44) 2-Methylnaph	0.544	0.556	0.637	0.633	0.563	0.580	0.519	0.528	0.570	7.82
45) 1-Methylnaph	0.539	0.542	0.722	0.718	0.544	0.569	0.517	0.528	0.585	14.50

88.16

8

Initial Calibration Summary

Page 2 of 3

Job Number: JB67898

Sample: E6P277-ICC277

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 6P6545.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

46)	Dimethylnaph	0.583	0.596	0.788	0.779	0.587	0.615	0.560	0.545	0.632	15.26
47)	I Acenaphthene-d10	-----ISTD-----									
48)	Hexachlorocy	0.296	0.294	0.364	0.334	0.253	0.238			0.297	15.98
49)	2,4,6-Trichl	0.311	0.309	0.362	0.355	0.304	0.301	0.269	0.274	0.311	10.79
50)	2,4,5-Trichl	0.336	0.336	0.388	0.372	0.333	0.326	0.295	0.229	0.327	14.85
51)	2-Fluorobiph	1.136	1.140	1.271	1.249	1.166	1.225	1.130	1.086	1.175	5.56
52)	2-Chloronaph	0.995	0.993	1.172	1.139	1.017	1.089	1.014	0.996	1.052	6.82
53)	Biphenyl	1.344	1.332	1.777	1.752	1.337	1.431	1.318	1.302	1.449	13.69
54)	2-Nitroanili	0.466	0.458	0.536	0.531	0.456	0.484	0.405	0.371	0.463	12.15
55)	Dimethylphth	1.148	1.135	1.312	1.295	1.142	1.228	1.099	1.056	1.177	7.83
56)	Acenaphthyle	1.671	1.658	1.941	1.900	1.642	1.746	1.615	1.517	1.711	8.44
57)	2,6-Dinitrot	0.271	0.268	0.313	0.306	0.265	0.277	0.241	0.219	0.270	11.49
58)	3-Nitroanili	0.307	0.306	0.361	0.343	0.311	0.311	0.271	0.235	0.306	12.77
59)	Acenaphthene	1.038	1.028	1.203	1.179	1.025	1.105	1.027	1.043	1.081	6.73
60)	2,4-Dinitrop	0.158	0.159	0.192	0.159	0.114				0.156	17.78
61)	4-Nitropheno	0.259	0.247	0.284	0.281	0.210	0.210			0.248	13.25
62)	Dibenzofuran	1.422	1.412	1.639	1.622	1.438	1.525	1.404	1.376	1.480	6.95
63)	2,4-Dinitrot	0.374	0.369	0.439	0.427	0.373	0.394	0.328	0.273	0.372	14.31
64)	2,3,4,6-Tetr	0.275	0.274	0.324	0.309	0.260	0.258	0.202		0.272	14.53
65)	Diethylphtha	1.237	1.202	1.420	1.375	1.222	1.290	1.137	1.111	1.249	8.64
66)	Fluorene	1.187	1.178	1.383	1.362	1.181	1.268	1.127	1.103	1.224	8.50
67)	4-Chlorophen	0.508	0.500	0.585	0.590	0.520	0.561	0.529	0.505	0.537	6.80
68)	4-Nitroanili	0.315	0.306	0.346	0.344	0.299	0.305	0.263	0.208	0.298	15.13
69)	I Phenanthrene-d10	-----ISTD-----									
70)	4,6-Dinitro-	0.133	0.137	0.151	0.136	0.110	0.098			0.128	15.44
71)	n-Nitrosodip	0.485	0.492	0.552	0.556	0.480	0.507	0.452	0.429	0.494	8.92
72)	1,2-Diphenyl	1.078	1.078	1.280	1.288	1.135	1.208	1.070	1.020	1.145	8.92
73)	2,4,6-Tribo	0.114	0.116	0.120	0.116	0.103	0.105	0.085	0.069	0.104	17.22
74)	4-Bromopheny	0.182	0.185	0.211	0.203	0.181	0.194	0.172	0.174	0.188	7.33
75)	Hexachlorobe	0.215	0.221	0.250	0.246	0.218	0.234	0.226	0.209	0.227	6.44
76)	Pentachlorop	0.131	0.132	0.143	0.128	0.107	0.094			0.122	14.93
77)	Phenanthrene	1.009	1.017	1.168	1.155	1.004	1.089	1.046	1.087	1.072	5.98
78)	Anthracene	1.024	1.032	1.201	1.201	1.026	1.111	1.006	0.987	1.073	8.05
79)	Carbazole	0.986	0.994	1.307	1.295	0.982	1.057	0.935	0.867	1.053	15.42
80)	Di-n-butylph	1.250	1.247	1.429	1.425	1.254	1.303	1.118	1.044	1.259	10.61
81)	Fluoranthene	1.101	1.100	1.272	1.260	1.101	1.154	1.045	1.020	1.131	8.16
82)	Octadecane	0.440	0.444	0.608	0.625	0.485	0.504	0.450	0.455	0.501	14.86
83)	I Chrysene-d12	-----ISTD-----									
84)	Pyrene	1.149	1.157	1.284	1.275	1.133	1.192	1.101	1.098	1.174	6.12
85)	Butyl steara	0.283	0.284	0.339	0.337	0.293	0.297	0.235	0.207	0.284	15.94
86)	Terphenyl-d1	0.770	0.787	0.830	0.829	0.772	0.813	0.717	0.697	0.777	6.35
87)	Butylbenzylp	0.577	0.579	0.632	0.632	0.565	0.565	0.460	0.450	0.558	12.36
88)	Benzo[a]anth	1.015	1.029	1.148	1.151	1.019	1.082	1.003	1.062	1.064	5.54
89)	3,3'-Dichlor	0.376	0.378	0.425	0.416	0.366	0.367	0.291	0.273	0.361	14.86
90)	Chrysene	0.952	0.965	1.064	1.072	0.944	0.984	0.909	0.944	0.979	6.02
91)	bis(2-Ethylh	0.785	0.789	0.872	0.855	0.770	0.769	0.617	0.588	0.756	13.51
92)	I Perylene-d12	-----ISTD-----									
93)	Di-n-octylph	1.526	1.548	1.597	1.588	1.481	1.477	1.183	1.024	1.428	14.66
94)	Benzo[b]fluo	1.252	1.273	1.287	1.277	1.133	1.200	1.083	1.054	1.195	7.81
95)	Benzo[k]fluo	1.073	1.089	1.148	1.194	1.123	1.186	1.016	0.975	1.101	7.07
96)	Benzo[a]pyre	1.041	1.046	1.104	1.130	1.014	1.055	0.916	0.911	1.027	7.68
97)	Indeno[1,2,3	1.192	1.140	1.175	1.159	1.054	1.026	0.930	0.793	1.059	13.19
98)	Dibenz(a,h)a	0.955	0.952	1.108	1.114	0.889	0.917	0.836	0.714	0.936	14.21
99)	Dibenz[a,h]a	1.070	1.072	1.093	1.097	0.986	1.061	0.928	0.815	1.015	9.83
100)	7,12-Dimethy		0.554	0.683	0.686	0.403	0.376	0.273		0.496	34.61
----- Quadratic regression -----											
										Coefficient =	0.9954

88.16

8

Initial Calibration Summary

Job Number: JB67898
Account: LANGAN Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Sample: E6P277-ICC277
Lab FileID: 6P6545.D

Response Ratio = -0.06937 + 0.91792 *A + -0.16248 *A^2

101) Benzo[g,h,i] 1.036 1.034 1.063 1.086 0.975 1.054 0.968 0.886 1.013 6.47

(#) = Out of Range ### Number of calibration levels exceeded format ###

M6P277.M Mon Apr 28 13:25:58 2014 RPT1

8.8.16
8

Initial Calibration Verification

Page 1 of 1

Job Number: JB67898

Sample: E6P278-ICV277

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 6P6553.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\6p278\6p6553.D

Vial: 2

Acq On : 28 Apr 2014 9:57 am

Operator: emilyp

Sample : icv277-50

Inst : MS6P

Misc : op73158,e6p278

Multiplr: 1.00

MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\M6P277.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um

Last Update : Mon Apr 28 12:16:53 2014

Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min

Max. RRF Dev : 30% Max. Rel. Area : 202%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	129	0.00	5.52
9 t	Phenol	2.381	2.274	4.5	107	0.00	5.26
12 t	2-Chlorophenol	1.365	1.407	-3.1	116	-0.01	5.35
19 t	2-Methylphenol	1.396	1.502	-7.6	118	-0.01	5.76
21 t	3&4-Methylphenol	1.500	1.543	-2.9	111	-0.01	5.90
24 I	Naphthalene-d8	1.000	1.000	0.0	133	0.00	6.69
29 t	2-Nitrophenol	0.173	0.173	0.0	113	-0.01	6.32
30 t	2,4-Dimethylphenol	0.409	0.422	-3.2	114	0.00	6.37
31	Benzoic Acid	0.208	0.148	28.8	75	-0.04	6.51
33 t	2,4-Dichlorophenol	0.249	0.254	-2.0	114	-0.02	6.56
34	2,6-Dichlorophenol	0.254	0.253	0.4	114	-0.01	6.78
43 t	4-Chloro-3-methylphenol	0.380	0.368	3.2	111	-0.02	7.30
47 I	Acenaphthene-d10	1.000	1.000	0.0	136	0.00	8.80
49 t	2,4,6-Trichlorophenol	0.311	0.296	4.8	111	-0.01	7.81
50 t	2,4,5-Trichlorophenol	0.327	0.310	5.2	109	-0.03	7.86
61 t	4-Nitrophenol	0.248	0.210	15.3	101	-0.05	9.03
64	2,3,4,6-Tetrachlorophenol	0.272	0.240	11.8	101	-0.02	9.28
69 I	Phenanthrene-d10	1.000	1.000	0.0	134	0.00	10.99
70 t	4,6-Dinitro-2-methylpheno	0.128	0.104	18.8	92	-0.02	9.68
76 t	Pentachlorophenol	0.122	0.098	19.7	92	-0.02	10.73

(#) = Out of Range
6p6524.D M6P277.M

SPCC's out = 0 CCC's out = 0
Mon Apr 28 13:09:10 2014 RPT1

8.8.17

8

Initial Calibration Verification

Job Number: JB67898

Sample: E6P278-ICV277

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 6P6554.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\6p278\6p6554.D

Vial: 3

Acq On : 28 Apr 2014 10:26 am

Operator: emilyp

Sample : icv277-50

Inst : MS6P

Misc : op73158,e6p278

Multiplr: 1.00

MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\M6P277.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um

Last Update : Mon Apr 28 12:16:53 2014

Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min

Max. RRF Dev : 30% Max. Rel. Area : 202%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	114	0.00	5.53
3 t	Pyridine	1.813	1.645	9.3	79	-0.06	2.51
4 t	N-Nitrosodimethylamine	1.064	1.063	0.1	101	-0.03	2.47
11 t	bis(2-Chloroethyl)ether	1.670	1.755	-5.1	109	-0.01	5.31
14 t	1,3-Dichlorobenzene	1.448	1.431	1.2	102	0.00	5.48
15 t	1,4-Dichlorobenzene	1.456	1.428	1.9	100	0.00	5.54
16 t	Benzyl alcohol	1.004	1.013	-0.9	97	-0.01	5.66
17 t	1,2-Dichlorobenzene	1.361	1.349	0.9	102	0.00	5.67
20 t	2,2'-oxybis(1-Chloropropa	0.479	0.491	-2.5	104	0.00	5.77
22 t	n-Nitroso-di-n-propylamin	1.348	1.358	-0.7	105	0.00	5.88
23 t	Hexachloroethane	0.490	0.474	3.3	101	0.00	5.97
24 I	Naphthalene-d8	1.000	1.000	0.0	110	0.00	6.69
26 t	Nitrobenzene	0.543	0.544	-0.2	98	0.00	6.03
28 t	Isophorone	0.899	0.884	1.7	94	0.00	6.25
32 t	bis(2-Chloroethoxy)methan	0.496	0.533	-7.5	106	0.00	6.45
36 t	1,2,4-Trichlorobenzene	0.290	0.287	1.0	99	0.00	6.64
38 t	Naphthalene	1.014	1.017	-0.3	98	0.00	6.71
42 t	Hexachlorobutadiene	0.163	0.168	-3.1	100	-0.01	6.84
44 t	2-Methylnaphthalene	0.570	0.537	5.8	93	0.00	7.46
47 I	Acenaphthene-d10	1.000	1.000	0.0	106	0.00	8.80
48 t	Hexachlorocyclopentadiene	0.297	0.246	17.2	72	0.00	7.66
52 t	2-Chloronaphthalene	1.052	1.031	2.0	93	0.00	8.05
54 t	2-Nitroaniline	0.463	0.449	3.0	89	0.00	8.20
55 t	Dimethylphthalate	1.177	1.181	-0.3	96	0.00	8.45
56 t	Acenaphthylene	1.711	1.447	15.4	79	0.00	8.60
57 t	2,6-Dinitrotoluene	0.270	0.263	2.6	89	0.00	8.53
58 t	3-Nitroaniline	0.306	0.260	15.0	77	0.00	8.75
59 t	Acenaphthene	1.081	1.088	-0.6	96	0.00	8.84
62 t	Dibenzofuran	1.480	1.415	4.4	92	0.00	9.09
63 t	2,4-Dinitrotoluene	0.372	0.354	4.8	86	0.00	9.09
65 t	Diethylphthalate	1.249	1.236	1.0	92	0.00	9.46
66 t	Fluorene	1.224	1.225	-0.1	94	0.00	9.58
67 t	4-Chlorophenyl-phenylethe	0.537	0.533	0.7	97	0.00	9.59
68 t	4-Nitroaniline	0.298	0.276	7.4	85	-0.01	9.63
69 I	Phenanthrene-d10	1.000	1.000	0.0	101	0.00	10.99
71 t	n-Nitrosodiphenylamine	0.494	0.521	-5.5	95	0.00	9.78
72 t	1,2-Diphenylhydrazine	1.145	1.200	-4.8	94	0.00	9.83
74 t	4-Bromophenyl-phenylether	0.188	0.191	-1.6	91	0.00	10.33
75 t	Hexachlorobenzene	0.227	0.220	3.1	88	0.00	10.41

Initial Calibration Verification

Page 2 of 2

Job Number: JB67898

Sample: E6P278-ICV277

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 6P6554.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

77 t	Phenanthrene	1.072	1.039	3.1	89	0.00	11.02
78 t	Anthracene	1.073	1.061	1.1	89	0.00	11.10
79 t	Carbazole	1.053	0.972	7.7	75	0.00	11.38
80 t	Di-n-butylphthalate	1.259	1.276	-1.4	90	0.00	12.01
81 t	Fluoranthene	1.131	1.096	3.1	87	0.00	12.90
83 I	Chrysene-d12	1.000	1.000	0.0	88	0.00	15.21
84 t	Pyrene	1.174	1.242	-5.8	85	0.00	13.25
87 t	Butylbenzylphthalate	0.558	0.611	-9.5	85	0.00	14.41
88 t	Benzo[a]anthracene	1.064	1.075	-1.0	83	0.00	15.19
89 t	3,3'-Dichlorobenzidine	0.361	0.293	18.8	61	0.00	15.20
90 t	Chrysene	0.979	1.041	-6.3	86	0.00	15.25
91 t	bis(2-Ethylhexyl)phthalat	0.756	0.833	-10.2	84	0.00	15.38
92 I	Perylene-d12	1.000	1.000	0.0	80	0.00	17.33
93 t	Di-n-octylphthalate	1.428	1.619	-13.4	81	0.00	16.37
94 t	Benzo[b]fluoranthene	1.195	1.225	-2.5	76	0.00	16.81
95 t	Benzo[k]fluoranthene	1.101	1.170	-6.3	81	0.01	16.85
96 t	Benzo[a]pyrene	1.027	1.097	-6.8	79	0.00	17.25
99 t	Dibenz[a,h]anthracene	1.015	1.075	-5.9	78	0.00	18.70
101 t	Benzo[g,h,i]perylene	1.013	1.077	-6.3	81	0.01	19.02

(#) = Out of Range
6p6524.D M6P277.M

SPCC's out = 0 CCC's out = 0
Mon Apr 28 13:09:12 2014 RPT1

8.8.18

8

Initial Calibration Verification

Page 1 of 1

Job Number: JB67898

Sample: E6P278-ICV276

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 6P6554A.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\6p278\6p6554a.D Vial: 3
Acq On : 28 Apr 2014 10:26 am Operator: emilyp
Sample : icv276-50 Inst : MS6P
Misc : op73158,e6p278 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\M6P277.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
Last Update : Mon Apr 28 12:16:53 2014
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 202%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
110	Acenaphthene-d10a	1.000	1.000	0.0	121	0.12	8.80
111	1,2,4,5-Tetrachlorobenzen	0.536	0.466	13.1	114	0.11	7.67

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

6p6524.D M6P277.M

Mon Apr 28 13:13:53 2014 RPT1

8.8.19

8

Initial Calibration Verification

Page 1 of 1

Job Number: JB67898

Sample: E6P278-ICV277

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 6P6555.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\6p278\6p6555.D

Vial: 4

Acq On : 28 Apr 2014 10:54 am

Operator: emilyp

Sample : icv277-50

Inst : MS6P

Misc : op73158,e6p278

Multiplr: 1.00

MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\M6P277.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um

Last Update : Mon Apr 28 12:16:53 2014

Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min

Max. RRF Dev : 30% Max. Rel. Area : 202%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	136	0.00	5.52
2	1,4-Dioxane	0.693	0.688	0.7	109	0.01	2.12
6 t	Indene	2.677	2.946	-10.0	122	0.00	5.75
7 t	Cumene	4.247	4.508	-6.1	118	0.00	4.82
13 t	Decane	1.007	1.039	-3.2	117	0.00	5.41
18 t	Acetophenone	2.510	2.661	-6.0	116	0.00	5.88
24 I	Naphthalene-d8	1.000	1.000	0.0	134	0.00	6.69
27 t	Quinoline	0.700	0.749	-7.0	114	-0.01	7.06
40 t	2,3-Dichloroaniline	0.346	0.337	2.6	104	0.00	7.81
41 t	Caprolactam	0.144	0.139	3.5	103	0.01	7.13
45 t	1-Methylnaphthalene	0.585	0.622	-6.3	115	0.00	7.58
46 t	Dimethylnaphthalene	0.632	0.668	-5.7	113	0.00	8.24
47 I	Acenaphthene-d10	1.000	1.000	0.0	128	0.00	8.80
53 t	Biphenyl	1.449	1.592	-9.9	114	0.00	8.04
60 t	2,4-Dinitrophenol	0.156	0.130	16.7	86	-0.01	8.90
69 I	Phenanthrene-d10	1.000	1.000	0.0	122	0.00	10.99
82 t	Octadecane	0.501	0.551	-10.0	111	0.00	10.95
92 I	Perylene-d12	1.000	1.000	0.0	85	-0.01	17.33
	----- True Calc. % Drift -----						
100 t	7,12-Dimethylbenz(a)anthr	50.000	23.300	53.4#	41	0.00	16.80

(#) = Out of Range
 6p6524.D M6P277.M

SPCC's out = 0 CCC's out = 0
 Mon Apr 28 13:09:14 2014 RPT1

8.8.20

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Initial Calibration Verification

Page 1 of 1

Job Number: JB67898

Sample: E6P278-ICV276

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 6P6555A.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\6p278\6p6555a.D Vial: 4
Acq On : 28 Apr 2014 10:54 am Operator: emilyp
Sample : icv276-50 Inst : MS6P
Misc : op73158,e6p278 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\M6P277.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
Last Update : Mon Apr 28 12:16:53 2014
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 202%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
102	1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	150	0.08	5.52
103	Benzaldehyde	1.430	1.571	-9.9	176	0.09	5.15
104	Phenanthrene-d10a	1.000	1.000	0.0	138	0.14	10.99
105	Atrazine	0.115	0.119	-3.5	149	0.13	10.64

(#) = Out of Range
6p6524.D M6P277.M

SPCC's out = 0 CCC's out = 0
Mon Apr 28 13:13:55 2014 RPT1

8.8.21

8

Initial Calibration Verification

Page 1 of 1

Job Number: JB67898**Sample:** E6P278-ICV277**Account:** LANGAN Langan Engineering & Environmental**Lab FileID:** 6P6556.D**Project:** Carroll Gardens, 363-365 Bond Street, Brooklyn, NY**Evaluate Continuing Calibration Report**

Data File : C:\msdchem\1\DATA\6p278\6p6556.D

Vial: 5

Acq On : 28 Apr 2014 11:22 am

Operator: emilyp

Sample : icv277-50

Inst : MS6P

Misc : op73158,e6p278

Multiplr: 1.00

MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\M6P277.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um

Last Update : Mon Apr 28 12:16:53 2014

Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min

Max. RRF Dev : 30% Max. Rel. Area : 202%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	103	0.00	5.52
5 S	2-Fluorophenol	1.441	1.643	-14.0	107	0.00	4.34
8 S	Phenol-d5	2.061	2.255	-9.4	105	0.00	5.25
24 I	Naphthalene-d8	1.000	1.000	0.0	101	0.00	6.69
25 S	Nitrobenzene-d5	0.528	0.603	-14.2	106	0.00	6.01
47 I	Acenaphthene-d10	1.000	1.000	0.0	95	-0.01	8.79
51 S	2-Fluorobiphenyl	1.175	1.359	-15.7	102	0.00	7.91
69 I	Phenanthrene-d10	1.000	1.000	0.0	92	-0.01	10.98
73 S	2,4,6-Tribromophenol	0.104	0.111	-6.7	85	-0.01	9.94
83 I	Chrysene-d12	1.000	1.000	0.0	82	-0.01	15.20
86 S	Terphenyl-d14	0.777	0.927	-19.3	91	0.00	13.57

(#) = Out of Range

6p6524.D M6P277.M

SPCC's out = 0 CCC's out = 0

Mon Apr 28 13:09:16 2014 RPT1

8.8.22

8

Initial Calibration Verification

Page 1 of 1

Job Number: JB67898

Sample: E6P278-ICV277

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 6P6557.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\6p278\6p6557.D

Vial: 6

Acq On : 28 Apr 2014 11:50 am

Operator: emilyp

Sample : icv277-50

Inst : MS6P

Misc : op73158,e6p278

Multiplr: 1.00

MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\M6P277.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um

Last Update : Mon Apr 28 13:21:06 2014

Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min

Max. RRF Dev : 30% Max. Rel. Area : 202%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	89	0.00	5.52
10 t	Aniline	2.627	2.998	-14.1	84	0.00	5.25
24 I	Naphthalene-d8	1.000	1.000	0.0	89	0.00	6.69
39 t	4-Chloroaniline	0.427	0.478	-11.9	85	0.00	6.77

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

6p6557.D M6P277.M

Mon Apr 28 13:22:19 2014 RPT1

8.8.23

8

Initial Calibration Verification

Page 1 of 1

Job Number: JB67898

Account: LANGAN Langan Engineering & Environmental

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Sample: E6P278-ICV276

Lab FileID: 6P6558.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\6p278\6p6558.D Vial: 7
Acq On : 28 Apr 2014 12:18 pm Operator: emilyp
Sample : icv276-50 Inst : MS6P
Misc : op73158,e6p278 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\M6P277.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
Last Update : Mon Apr 28 12:16:53 2014
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 202%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
107	Chrysene-d12a	1.000	1.000	0.0	152	0.16	15.20
108	Benzidine	0.612	0.758	-23.9	177	0.14	13.17

(#) = Out of Range

6p6524.D M6P277.M

SPCC's out = 0 CCC's out = 0

Mon Apr 28 13:09:23 2014 RPT1

8.8.24

8

Initial Calibration Verification

Page 1 of 1

Job Number: JB67898

Sample: E6P278-ICV276

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 6P6559.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\e6p278\6p6559.D Vial: 8
Acq On : 28 Apr 2014 12:47 pm Operator: emilyp
Sample : icv276-50 Inst : MS6P
Misc : op73158,e6p278 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\M6P277.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
Last Update : Mon Apr 28 12:16:53 2014
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 202%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
112 I	Naphthalene-d8a	1.000	1.000	0.0	108	0.10	6.69
113	Hydroquinone	0.398	0.433	-8.8	107	0.09	7.13

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

6p6524.D M6P277.M

Mon Apr 28 13:09:26 2014 RPT1

8.8.25

8

Continuing Calibration Summary

Page 1 of 3

Job Number: JB67898

Sample: E6P319-CC277

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 6P7512.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\6p319\6p7512.D

Vial: 2

Acq On : 29 May 2014 10:07 pm

Operator: andrews1

Sample : cc277-50

Inst : MS6P

Misc : op74494,6p319

Multiplr: 1.00

MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\M6P277.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um

Last Update : Fri May 30 08:21:54 2014

Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min

Max. RRF Dev : 20% Max. Rel. Area : 202%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	148	-0.06	5.09
2	1,4-Dioxane	0.693	0.582	16.0	100	-0.07	1.57
3 t	Pyridine	1.813	1.545	14.8	96	-0.09	1.86
4 t	N-Nitrosodimethylamine	1.064	0.898	15.6	110	-0.09	1.84
5 S	2-Fluorophenol	1.441	1.391	3.5	130	-0.08	3.84
6 t	Indene	2.677	2.666	0.4	119	-0.06	5.30
7 t	Cumene	4.247	4.293	-1.1	122	-0.07	4.34
8 S	Phenol-d5	2.061	1.921	6.8	129	-0.05	4.85
9 t	Phenol	2.381	2.152	9.6	116	-0.05	4.86
10 t	Aniline	2.627	2.061	21.5#	97	-0.06	4.81
11 t	bis(2-Chloroethyl)ether	1.670	1.437	14.0	116	-0.05	4.89
12 t	2-Chlorophenol	1.365	1.479	-8.4	139	-0.06	4.92
13 t	Decane	1.007	1.152	-14.4	141	-0.06	4.98
14 t	1,3-Dichlorobenzene	1.448	1.598	-10.4	148	-0.06	5.04
15 t	1,4-Dichlorobenzene	1.456	1.623	-11.5	148	-0.06	5.10
16 t	Benzyl alcohol	1.004	0.992	1.2	123	-0.05	5.24
17 t	1,2-Dichlorobenzene	1.361	1.536	-12.9	151	-0.06	5.23
18 t	Acetophenone	2.510	2.437	2.9	115	-0.05	5.44
19 t	2-Methylphenol	1.396	1.378	1.3	125	-0.05	5.36
20 t	2,2'-oxybis(1-Chloropropa	0.479	0.471	1.7	129	-0.05	5.35
21 t	3&4-Methylphenol	1.500	1.520	-1.3	125	-0.05	5.49
22 t	n-Nitroso-di-n-propylamin	1.348	1.209	10.3	121	-0.05	5.46
23 t	Hexachloroethane	0.490	0.574	-17.1	158	-0.06	5.50
24 I	Naphthalene-d8	1.000	1.000	0.0	140	-0.07	6.18
25 S	Nitrobenzene-d5	0.528	0.498	5.7	121	-0.05	5.56
26 t	Nitrobenzene	0.543	0.517	4.8	118	-0.05	5.58
27 t	Quinoline	0.700	0.732	-4.6	116	-0.07	6.53
28 t	Isophorone	0.899	0.868	3.4	117	-0.05	5.79
29 t	2-Nitrophenol	0.173	0.211	-22.0#	145	-0.06	5.85
30 t	2,4-Dimethylphenol	0.409	0.438	-7.1	124	-0.05	5.92
31	Benzoic Acid	0.208	0.294	-41.3#	157	-0.04	6.07
32 t	bis(2-Chloroethoxy)methan	0.496	0.444	10.5	112	-0.06	5.98
33 t	2,4-Dichlorophenol	0.249	0.307	-23.3#	144	-0.06	6.08
34	2,6-Dichlorophenol	0.254	0.304	-19.7	144	-0.06	6.28
35 t	1,3,5-Trichlorobenzene	0.315	0.370	-17.5	135	-0.06	5.85
36 t	1,2,4-Trichlorobenzene	0.290	0.342	-17.9	150	-0.06	6.13
37 t	1,2,3-Trichlorobenzene	0.299	0.340	-13.7	131	-0.06	6.34
38 t	Naphthalene	1.014	1.141	-12.5	139	-0.06	6.20
39 t	4-Chloroaniline	0.427	0.441	-3.3	123	-0.06	6.27
40 t	2,3-Dichloroaniline	0.346	0.381	-10.1	123	-0.08	7.22
41 t	Caprolactam	0.144	0.138	4.2	107	-0.04	6.65

Continuing Calibration Summary

Page 2 of 3

Job Number: JB67898

Sample: E6P319-CC277

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 6P7512.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

42 t	Hexachlorobutadiene	0.163	0.218	-33.7#	166	-0.07	6.33
43 t	4-Chloro-3-methylphenol	0.380	0.419	-10.3	132	-0.06	6.80
44 t	2-Methylnaphthalene	0.570	0.656	-15.1	144	-0.08	6.90
45 t	1-Methylnaphthalene	0.585	0.654	-11.8	127	-0.08	7.00
46 t	Dimethylnaphthalene	0.632	0.703	-11.2	125	-0.09	7.62
47 I	Acenaphthene-d10	1.000	1.000	0.0	143	-0.09	8.15
48 t	Hexachlorocyclopentadiene	0.297	0.363	-22.2#	143	-0.08	7.08
49 t	2,4,6-Trichlorophenol	0.311	0.369	-18.6	146	-0.08	7.24
50 t	2,4,5-Trichlorophenol	0.327	0.389	-19.0	144	-0.08	7.30
51 S	2-Fluorobiphenyl	1.175	1.277	-8.7	144	-0.08	7.33
52 t	2-Chloronaphthalene	1.052	1.168	-11.0	143	-0.08	7.45
53 t	Biphenyl	1.449	1.598	-10.3	129	-0.08	7.44
54 t	2-Nitroaniline	0.463	0.464	-0.2	124	-0.08	7.60
55 t	Dimethylphthalate	1.177	1.302	-10.6	142	-0.08	7.85
56 t	Acenaphthylene	1.711	1.890	-10.5	139	-0.09	7.96
57 t	2,6-Dinitrotoluene	0.270	0.297	-10.0	136	-0.08	7.92
58 t	3-Nitroaniline	0.306	0.314	-2.6	125	-0.08	8.14
59 t	Acenaphthene	1.081	1.177	-8.9	140	-0.09	8.19
60 t	2,4-Dinitrophenol	0.156	0.151	3.2	113	-0.08	8.29
61 t	4-Nitrophenol	0.248	0.289	-16.5	146	-0.08	8.46
62 t	Dibenzofuran	1.480	1.640	-10.8	143	-0.09	8.43
63 t	2,4-Dinitrotoluene	0.372	0.433	-16.4	141	-0.09	8.46
64	2,3,4,6-Tetrachlorophenol	0.272	0.334	-22.8#	148	-0.09	8.64
65 t	Diethylphthalate	1.249	1.371	-9.8	138	-0.09	8.82
66 t	Fluorene	1.224	1.356	-10.8	140	-0.09	8.91
67 t	4-Chlorophenyl-phenylether	0.537	0.607	-13.0	148	-0.09	8.94
68 t	4-Nitroaniline	0.298	0.289	3.0	120	-0.08	8.99
69 I	Phenanthrene-d10	1.000	1.000	0.0	148	-0.10	10.28
70 t	4,6-Dinitro-2-methylpheno	0.128	0.130	-1.6	128	-0.08	9.05
71 t	n-Nitrosodiphenylamine	0.494	0.510	-3.2	137	-0.09	9.12
72 t	1,2-Diphenylhydrazine	1.145	0.995	13.1	115	-0.09	9.16
73 S	2,4,6-Tribromophenol	0.104	0.126	-21.2#	155	-0.09	9.26
74 t	4-Bromophenyl-phenylether	0.188	0.210	-11.7	148	-0.10	9.64
75 t	Hexachlorobenzene	0.227	0.253	-11.5	150	-0.09	9.72
76 t	Pentachlorophenol	0.122	0.158	-29.5#	163	-0.09	10.05
77 t	Phenanthrene	1.072	1.108	-3.4	141	-0.10	10.32
78 t	Anthracene	1.073	1.138	-6.1	140	-0.10	10.40
79 t	Carbazole	1.053	1.041	1.1	118	-0.10	10.68
80 t	Di-n-butylphthalate	1.259	1.343	-6.7	139	-0.09	11.33
81 t	Fluoranthene	1.131	1.202	-6.3	140	-0.10	12.17
82 t	Octadecane	0.501	0.477	4.8	116	-0.09	10.28
83 I	Chrysene-d12	1.000	1.000	0.0	155	-0.10	14.46
84 t	Pyrene	1.174	1.184	-0.9	143	-0.10	12.51
85	Butyl stearate	0.284	0.281	1.1	128	-0.09	13.89
86 S	Terphenyl-d14	0.777	0.803	-3.3	150	-0.10	12.85
87 t	Butylbenzylphthalate	0.558	0.553	0.9	135	-0.10	13.70
88 t	Benzo[a]anthracene	1.064	1.087	-2.2	146	-0.10	14.44
89 t	3,3'-Dichlorobenzidine	0.361	0.405	-12.2	148	-0.10	14.47
90 t	Chrysene	0.979	1.002	-2.3	146	-0.10	14.50
91 t	bis(2-Ethylhexyl)phthalat	0.756	0.777	-2.8	138	-0.10	14.67
92 I	Perylene-d12	1.000	1.000	0.0	137	-0.11	16.57
93 t	Di-n-octylphthalate	1.428	1.572	-10.1	135	-0.09	15.66
94 t	Benzo[b]fluoranthene	1.195	1.382	-15.6	148	-0.10	16.06
95 t	Benzo[k]fluoranthene	1.101	1.239	-12.5	148	-0.10	16.10
96 t	Benzo[a]pyrene	1.027	1.127	-9.7	140	-0.10	16.49
97 t	Indeno[1,2,3-cd]pyrene	1.059	1.228	-16.0	144	-0.10	17.87

8.8.26

8

Continuing Calibration Summary

Job Number: JB67898
Account: LANGAN Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Sample: E6P319-CC277
Lab FileID: 6P7512.D

98 t	Dibenz(a,h)acridine	0.936	1.070	-14.3	133	-0.09	17.64
99 t	Dibenz[a,h]anthracene	1.015	1.212	-19.4	152	-0.10	17.90
----- True Calc. % Drift -----							
100 t	7,12-Dimethylbenz(a)anthr	50.000	47.760	4.5	128	-0.10	16.05
----- AvgRF CCRF % Dev -----							
101 t	Benzo[g,h,i]perylene	1.013	1.124	-11.0	145	-0.10	18.16

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6p7362.D M6P277.M Fri May 30 09:37:04 2014 RPT1

8.8.26
8

Continuing Calibration Summary

Page 1 of 1

Job Number: JB67898

Account: LANGAN Langan Engineering & Environmental

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Sample: E6P319-CC276

Lab FileID: 6P7513.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\6p319\6p7513.D

Vial: 3

Acq On : 29 May 2014 10:35 pm

Operator: andrews1

Sample : cc276-50

Inst : MS6P

Misc : op74494,e6p319

Multiplr: 1.00

MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\M6P277.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um

Last Update : Fri May 30 08:21:54 2014

Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min

Max. RRF Dev : 20% Max. Rel. Area : 202%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
102	1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	170	-0.06	5.08
103	Benzaldehyde	1.430	0.974	31.9#	124	-0.27	4.69
104	Phenanthrene-d10a	1.000	1.000	0.0	165	-0.11	10.27
105	Atrazine	0.115	0.118	-2.6	175	-0.08	9.97
106	Chrysene-d12a	1.000	1.000	0.0	175	-0.11	14.44
107	Benzidine	0.612	0.313	48.9#	84	-0.10	12.45
108	Acenaphthene-d10a	1.000	1.000	0.0	172	-0.09	8.15
109	1,2,4,5-Tetrachlorobenzen	0.536	0.529	1.3	184	-0.22	7.08

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

6p7362.D M6P277.M

Fri May 30 09:37:06 2014 RPT1

8.8.27

8

Continuing Calibration Summary

Page 1 of 3

Job Number: JB67898

Sample: E6P323-CC277

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 6P7630.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\6p323\6p7630.D

Vial: 2

Acq On : 2 Jun 2014 9:34 am

Operator: ashleyv

Sample : cc277-50

Inst : MS6P

Misc : op74494,e6p323

Multiplr: 1.00

MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\M6P277.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um

Last Update : Tue Jun 03 12:00:33 2014

Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min

Max. RRF Dev : 20% Max. Rel. Area : 202%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	194	0.00	5.05
2	1,4-Dioxane	0.693	0.645	6.9	146	-0.04	1.53
3 t	Pyridine	1.813	1.688	6.9	139	-0.05	1.83
4 t	N-Nitrosodimethylamine	1.064	0.956	10.2	154	-0.04	1.81
5 S	2-Fluorophenol	1.441	1.433	0.6	176	-0.04	3.81
6 t	Indene	2.677	2.764	-3.2	163	-0.04	5.27
7 t	Cumene	4.247	4.352	-2.5	163	-0.05	4.30
8 S	Phenol-d5	2.061	1.999	3.0	176	-0.03	4.82
9 t	Phenol	2.381	2.255	5.3	160	-0.03	4.83
10 t	Aniline	2.627	2.104	19.9	130	-0.04	4.77
11 t	bis(2-Chloroethyl)ether	1.670	1.534	8.1	163	-0.04	4.85
12 t	2-Chlorophenol	1.365	1.511	-10.7	187	-0.04	4.89
13 t	Decane	1.007	1.207	-19.9	194	-0.04	4.95
14 t	1,3-Dichlorobenzene	1.448	1.633	-12.8	199	-0.04	5.00
15 t	1,4-Dichlorobenzene	1.456	1.645	-13.0	197	-0.04	5.07
16 t	Benzyl alcohol	1.004	1.072	-6.8	175	-0.03	5.21
17 t	1,2-Dichlorobenzene	1.361	1.566	-15.1	202	-0.04	5.20
18 t	Acetophenone	2.510	2.503	0.3	155	-0.04	5.41
19 t	2-Methylphenol	1.396	1.459	-4.5	173	-0.03	5.33
20 t	2,2'-oxybis(1-Chloropropa	0.479	0.477	0.4	172	-0.04	5.31
21 t	3&4-Methylphenol	1.500	1.603	-6.9	174	-0.03	5.46
22 t	n-Nitroso-di-n-propylamin	1.348	1.294	4.0	170	-0.03	5.43
23 t	Hexachloroethane	0.490	0.593	-21.0#	215#	-0.04	5.46
24 I	Naphthalene-d8	1.000	1.000	0.0	191	0.00	6.14
25 S	Nitrobenzene-d5	0.528	0.501	5.1	166	-0.03	5.53
26 t	Nitrobenzene	0.543	0.551	-1.5	172	-0.03	5.54
27 t	Quinoline	0.700	0.726	-3.7	158	-0.04	6.49
28 t	Isophorone	0.899	0.870	3.2	161	-0.04	5.75
29 t	2-Nitrophenol	0.173	0.201	-16.2	189	-0.04	5.81
30 t	2,4-Dimethylphenol	0.409	0.428	-4.6	165	-0.04	5.89
31	Benzoic Acid	0.208	0.319	-53.4#	232#	0.00	6.05
32 t	bis(2-Chloroethoxy)methan	0.496	0.457	7.9	157	-0.04	5.95
33 t	2,4-Dichlorophenol	0.249	0.300	-20.5#	192	-0.04	6.04
34	2,6-Dichlorophenol	0.254	0.301	-18.5	194	-0.04	6.24
35 t	1,3,5-Trichlorobenzene	0.315	0.364	-15.6	182	-0.04	5.82
36 t	1,2,4-Trichlorobenzene	0.290	0.331	-14.1	198	-0.04	6.10
37 t	1,2,3-Trichlorobenzene	0.299	0.335	-12.0	176	-0.05	6.30
38 t	Naphthalene	1.014	1.084	-6.9	181	-0.04	6.16
39 t	4-Chloroaniline	0.427	0.443	-3.7	168	-0.04	6.23
40 t	2,3-Dichloroaniline	0.346	0.374	-8.1	165	-0.05	7.18
41 t	Caprolactam	0.144	0.138	4.2	146	-0.01	6.62

Continuing Calibration Summary

Page 2 of 3

Job Number: JB67898

Sample: E6P323-CC277

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 6P7630.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

42 t	Hexachlorobutadiene	0.163	0.210	-28.8#	218#	-0.05	6.28
43 t	4-Chloro-3-methylphenol	0.380	0.411	-8.2	177	-0.03	6.76
44 t	2-Methylnaphthalene	0.570	0.631	-10.7	189	-0.05	6.85
45 t	1-Methylnaphthalene	0.585	0.640	-9.4	169	-0.04	6.96
46 t	Dimethylnaphthalene	0.632	0.682	-7.9	165	-0.04	7.59
47 I	Acenaphthene-d10	1.000	1.000	0.0	190	0.00	8.11
48 t	Hexachlorocyclopentadiene	0.297	0.320	-7.7	167	-0.05	7.04
49 t	2,4,6-Trichlorophenol	0.311	0.366	-17.7	191	-0.04	7.20
50 t	2,4,5-Trichlorophenol	0.327	0.384	-17.4	188	-0.03	7.27
51 S	2-Fluorobiphenyl	1.175	1.312	-11.7	196	-0.04	7.28
52 t	2-Chloronaphthalene	1.052	1.176	-11.8	190	-0.04	7.41
53 t	Biphenyl	1.449	1.579	-9.0	169	-0.05	7.39
54 t	2-Nitroaniline	0.463	0.504	-8.9	179	-0.04	7.57
55 t	Dimethylphthalate	1.177	1.303	-10.7	188	-0.05	7.80
56 t	Acenaphthylene	1.711	1.886	-10.2	184	-0.05	7.92
57 t	2,6-Dinitrotoluene	0.270	0.303	-12.2	184	-0.04	7.88
58 t	3-Nitroaniline	0.306	0.328	-7.2	172	-0.04	8.10
59 t	Acenaphthene	1.081	1.177	-8.9	186	-0.05	8.15
60 t	2,4-Dinitrophenol	0.156	0.161	-3.2	159	-0.03	8.27
61 t	4-Nitrophenol	0.248	0.264	-6.5	176	-0.04	8.43
62 t	Dibenzofuran	1.480	1.645	-11.1	190	-0.05	8.38
63 t	2,4-Dinitrotoluene	0.372	0.433	-16.4	187	-0.04	8.43
64	2,3,4,6-Tetrachlorophenol	0.272	0.311	-14.3	182	-0.04	8.59
65 t	Diethylphthalate	1.249	1.354	-8.4	181	-0.05	8.77
66 t	Fluorene	1.224	1.342	-9.6	184	-0.05	8.86
67 t	4-Chlorophenyl-phenylether	0.537	0.608	-13.2	197	-0.05	8.89
68 t	4-Nitroaniline	0.298	0.309	-3.7	169	-0.04	8.95
69 I	Phenanthrene-d10	1.000	1.000	0.0	195	0.00	10.24
70 t	4,6-Dinitro-2-methylpheno	0.128	0.135	-5.5	174	-0.03	9.02
71 t	n-Nitrosodiphenylamine	0.494	0.517	-4.7	183	-0.05	9.07
72 t	1,2-Diphenylhydrazine	1.145	1.042	9.0	159	-0.05	9.12
73 S	2,4,6-Tribromophenol	0.104	0.119	-14.4	194	-0.05	9.22
74 t	4-Bromophenyl-phenylether	0.188	0.208	-10.6	193	-0.05	9.59
75 t	Hexachlorobenzene	0.227	0.249	-9.7	194	-0.04	9.68
76 t	Pentachlorophenol	0.122	0.137	-12.3	186	-0.04	10.01
77 t	Phenanthrene	1.072	1.116	-4.1	186	-0.05	10.27
78 t	Anthracene	1.073	1.120	-4.4	182	-0.05	10.35
79 t	Carbazole	1.053	1.051	0.2	157	-0.04	10.64
80 t	Di-n-butylphthalate	1.259	1.325	-5.2	181	-0.06	11.28
81 t	Fluoranthene	1.131	1.203	-6.4	184	-0.04	12.12
82 t	Octadecane	0.501	0.476	5.0	153	-0.05	10.24
83 I	Chrysene-d12	1.000	1.000	0.0	202	0.01	14.41
84 t	Pyrene	1.174	1.180	-0.5	186	-0.05	12.47
85	Butyl stearate	0.284	0.301	-6.0	179	-0.06	13.84
86 S	Terphenyl-d14	0.777	0.808	-4.0	197	-0.05	12.80
87 t	Butylbenzylphthalate	0.558	0.566	-1.4	181	-0.06	13.64
88 t	Benzo[a]anthracene	1.064	1.092	-2.6	192	-0.05	14.40
89 t	3,3'-Dichlorobenzidine	0.361	0.412	-14.1	196	-0.05	14.42
90 t	Chrysene	0.979	1.002	-2.3	190	-0.04	14.46
91 t	bis(2-Ethylhexyl)phthalat	0.756	0.791	-4.6	183	-0.05	14.63
92 I	Perylene-d12	1.000	1.000	0.0	173	0.00	16.53
93 t	Di-n-octylphthalate	1.428	1.657	-16.0	179	-0.05	15.62
94 t	Benzo[b]fluoranthene	1.195	1.415	-18.4	190	-0.03	16.02
95 t	Benzo[k]fluoranthene	1.101	1.260	-14.4	190	-0.03	16.06
96 t	Benzo[a]pyrene	1.027	1.145	-11.5	179	-0.04	16.46
97 t	Indeno[1,2,3-cd]pyrene	1.059	1.353	-27.8#	199	-0.03	17.85

8.8.28

8

Continuing Calibration Summary

Job Number: JB67898
Account: LANGAN Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Sample: E6P323-CC277
Lab FileID: 6P7630.D

98 t	Dibenz(a,h)acridine	0.936	1.083	-15.7	169	-0.03	17.61
99 t	Dibenz[a,h]anthracene	1.015	1.273	-25.4#	201	-0.03	17.87
----- True Calc. % Drift -----							
100 t	7,12-Dimethylbenz(a)anthr	50.000	46.775	6.5	158	-0.04	16.01
----- AvgRF CCRF % Dev -----							
101 t	Benzo[g,h,i]perylene	1.013	1.178	-16.3	191	-0.03	18.13

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6p7631.D M6P277.M Tue Jun 03 12:02:06 2014 RPT1

Continuing Calibration Summary

Page 1 of 1

Job Number: JB67898

Account: LANGAN Langan Engineering & Environmental

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Sample: E6P323-CC276

Lab FileID: 6P7631.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\6p323\6p7631.D

Vial: 3

Acq On : 2 Jun 2014 10:07 am

Operator: ashleyv

Sample : cc276-50

Inst : MS6P

Misc : op74494,e6p323

Multiplr: 1.00

MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\M6P277.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um

Last Update : Tue Jun 03 12:00:33 2014

Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min

Max. RRF Dev : 20% Max. Rel. Area : 202%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
102	1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	228#	0.00	5.05
103	Benzaldehyde	1.430	0.949	33.6#	161	0.00	4.66
104	Phenanthrene-d10a	1.000	1.000	0.0	222#	0.00	10.23
105	Atrazine	0.115	0.112	2.6	224#	0.00	9.93
106	Chrysene-d12a	1.000	1.000	0.0	231#	0.00	14.40
107	Benzidine	0.612	0.326	46.7#	116	0.00	12.40
108	Acenaphthene-d10a	1.000	1.000	0.0	234#	0.00	8.11
109	1,2,4,5-Tetrachlorobenzen	0.536	0.512	4.5	243#	0.00	7.05

(#)= Out of Range

6p7631.D M6P277.M

SPCC's out = 0 CCC's out = 0

Tue Jun 03 12:02:10 2014 RPT1

8.8.29

8

GC/MS Semi-volatiles

Raw Data

6

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\DATA\6p319\
 Data File : 6p7523.D
 Acq On : 30 May 2014 3:17 am
 Operator : andrews1
 Sample : jb67898-1
 Misc : op75185,e6p319,30.4
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 03 12:40:16 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Fri May 30 14:18:06 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

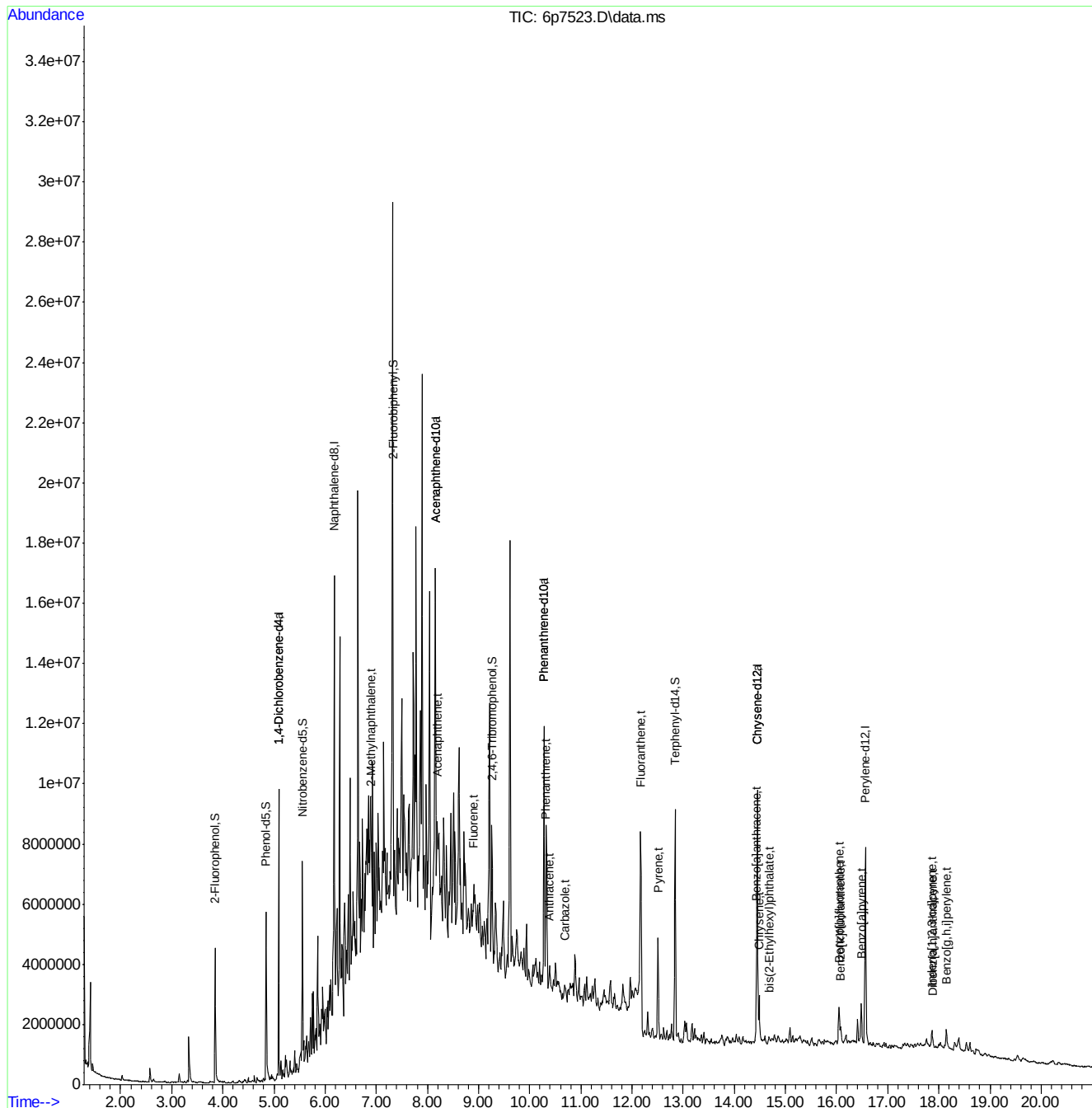
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.090	152	1018534	40.00	ppb	0.00
24) Naphthalene-d8	6.176	136	3985732	40.00	ppb	0.00
47) Acenaphthene-d10	8.155	164	2289164	40.00	ppb	0.00
69) Phenanthrene-d10	10.283	188	3607158	40.00	ppb	0.00
83) Chrysene-d12	14.450	240	3440016	40.00	ppb	-0.01
92) Perylene-d12	16.563	264	3105035	40.00	ppb	-0.01
102) 1,4-Dichlorobenzene-d4a	5.090	152	1018534	40.00	ppb	0.00
104) Phenanthrene-d10a	10.283	188	3607158	40.00	ppb	0.00
106) Chrysene-d12a	14.450	240	3440016	40.00	ppb	-0.01
108) Acenaphthene-d10a	8.155	164	2289164	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.849	112	1326241	36.14	ppb	0.00
Spiked Amount 50.000			Recovery	=	72.28%	
8) Phenol-d5	4.844	99	1780261	33.93	ppb	0.00
Spiked Amount 50.000			Recovery	=	67.86%	
25) Nitrobenzene-d5	5.555	82	1776009	33.74	ppb	0.00
Spiked Amount 50.000			Recovery	=	67.48%	
51) 2-Fluorobiphenyl	7.326	172	2914450	43.33	ppb	0.00
Spiked Amount 50.000			Recovery	=	86.66%	
73) 2,4,6-Tribromophenol	9.262	330	452488	48.47	ppb	0.00
Spiked Amount 50.000			Recovery	=	96.94%	
86) Terphenyl-d14	12.845	244	2986187	44.70	ppb	0.00
Spiked Amount 50.000			Recovery	=	89.40%	
Target Compounds						
44) 2-Methylnaphthalene	6.898	141	145129	2.56	ppb	Qvalue # 68
59) Acenaphthene	8.192	153	156568	2.53	ppb	97
66) Fluorene	8.903	166	200561	2.86	ppb	99
77) Phenanthrene	10.315	178	1115270	11.54	ppb	99
78) Anthracene	10.390	178	309535	3.20	ppb	95
79) Carbazole	10.684	167	57746	0.61	ppb	95
81) Fluoranthene	12.166	202	1552982	15.22	ppb	95
84) Pyrene	12.508	202	1444036	14.30	ppb	93
88) Benzo[a]anthracene	14.434	228	747401	8.17	ppb	97
90) Chrysene	14.487	228	687773	8.17	ppb	97
91) bis(2-Ethylhexyl)phtha...	14.675	149	26786	0.41	ppb	89
94) Benzo[b]fluoranthene	16.049	252	736688	7.94	ppb	92
95) Benzo[k]fluoranthene	16.081	252	223451	2.62	ppb	97
96) Benzo[a]pyrene	16.482	252	589654	7.40	ppb	98
97) Indeno[1,2,3-cd]pyrene	17.862	276	323854	3.94	ppb	97
99) Dibenz[a,h]anthracene	17.889	278	111045	1.41	ppb	92
101) Benzo[g,h,i]perylene	18.146	276	337657	4.29	ppb	96

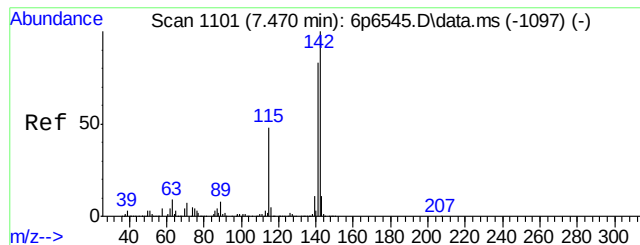
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\DATA\6p319\
Data File : 6p7523.D
Acq On : 30 May 2014 3:17 am
Operator : andrews1
Sample : jb67898-1
Misc : op75185,e6p319,30.4
ALS Vial : 13 Sample Multiplier: 1

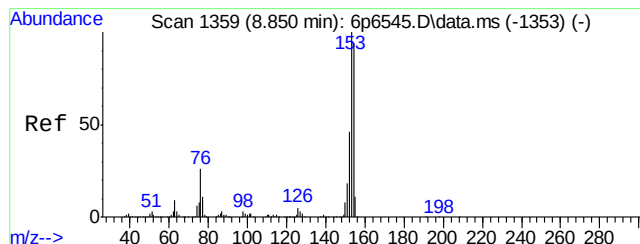
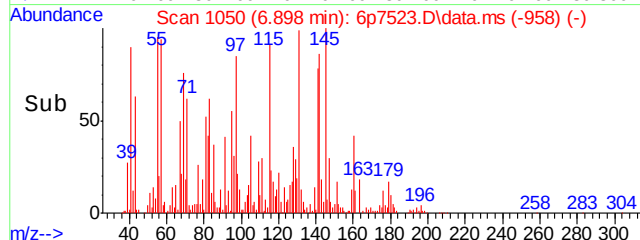
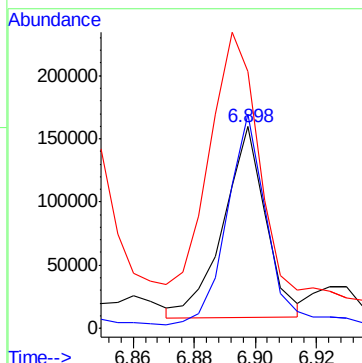
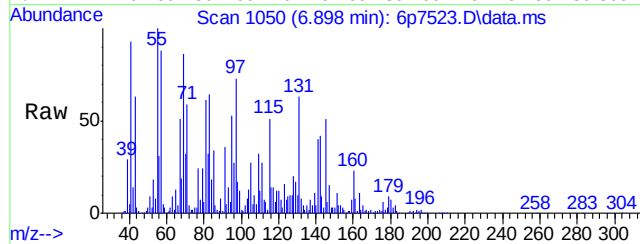
Quant Time: Jun 03 12:40:16 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Fri May 30 14:18:06 2014
Response via : Initial Calibration





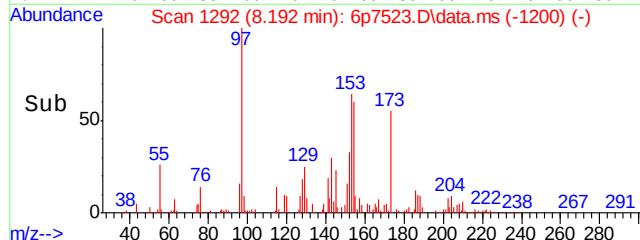
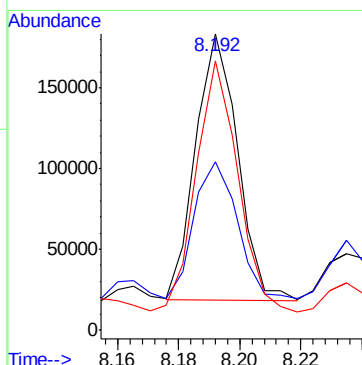
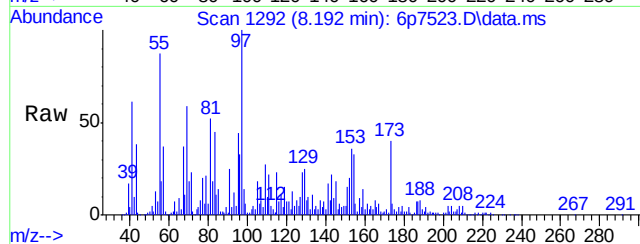
#44
2-Methylnaphthalene
Concen: 2.56 ppb
RT: 6.898 min Scan# 1050
Delta R.T. -0.005 min
Lab File: 6p7523.D
Acq: 30 May 2014 3:17 am

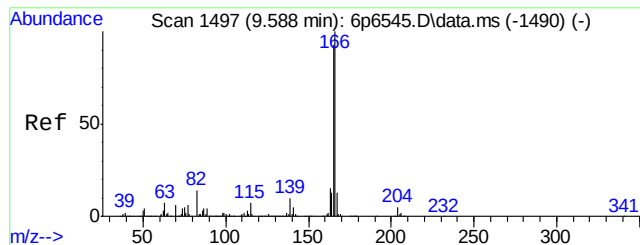
Tgt Ion	Ratio	Lower	Upper
141	100		
142	113.9	90.8	150.8
115	120.4	27.8	87.8#



#59
Acenaphthene
Concen: 2.53 ppb
RT: 8.192 min Scan# 1292
Delta R.T. -0.005 min
Lab File: 6p7523.D
Acq: 30 May 2014 3:17 am

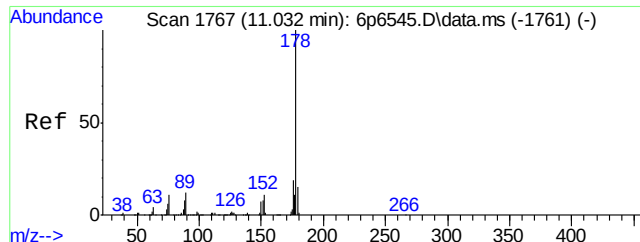
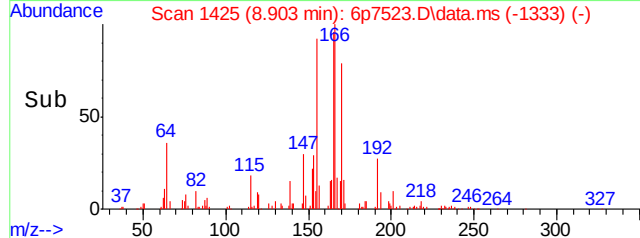
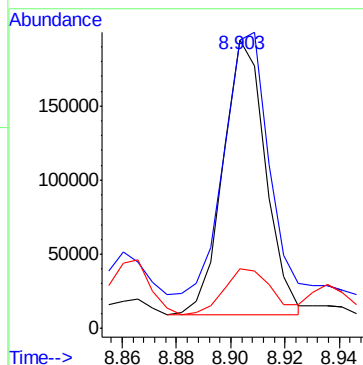
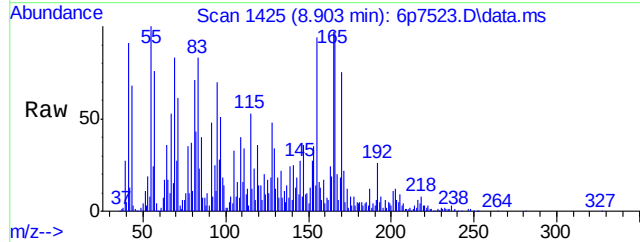
Tgt Ion	Ratio	Lower	Upper
153	100		
152	51.5	16.2	76.2
154	93.5	63.6	123.6





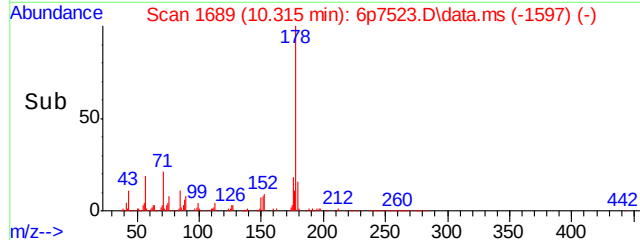
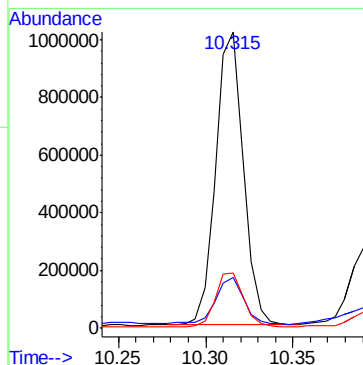
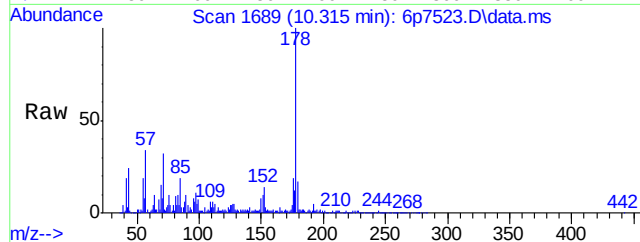
#66
Fluorene
Concen: 2.86 ppb
RT: 8.903 min Scan# 1425
Delta R.T. -0.005 min
Lab File: 6p7523.D
Acq: 30 May 2014 3:17 am

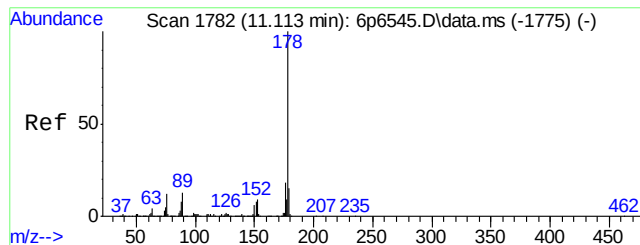
Tgt Ion	Ratio	Lower	Upper
166	100		
165	92.0	62.6	122.6
167	13.6	0.0	42.9



#77
Phenanthrene
Concen: 11.54 ppb
RT: 10.315 min Scan# 1689
Delta R.T. -0.005 min
Lab File: 6p7523.D
Acq: 30 May 2014 3:17 am

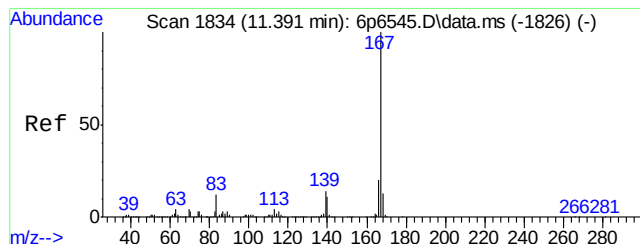
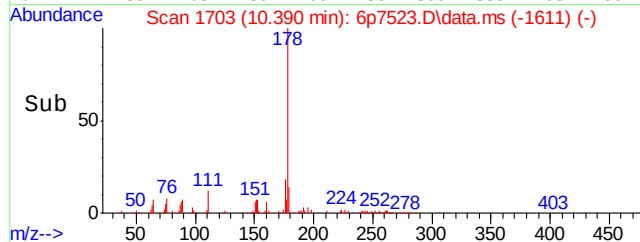
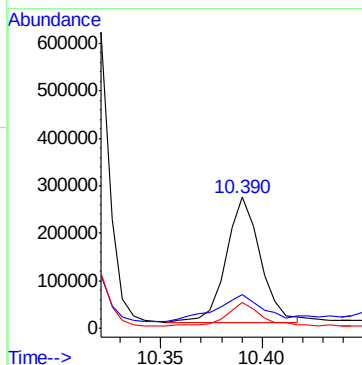
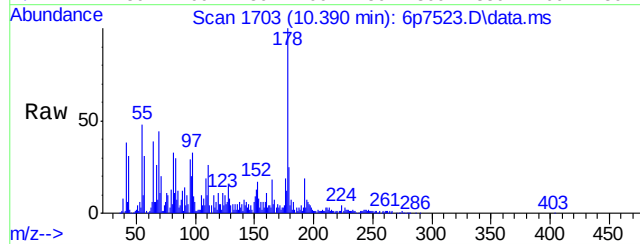
Tgt Ion	Ratio	Lower	Upper
178	100		
179	15.9	0.0	45.4
176	18.3	0.0	48.6





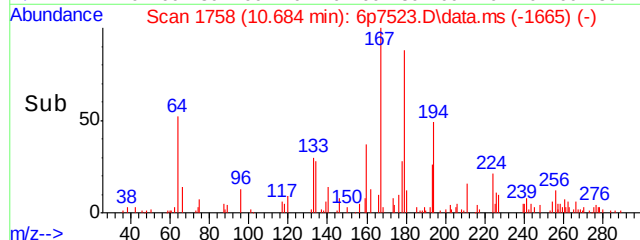
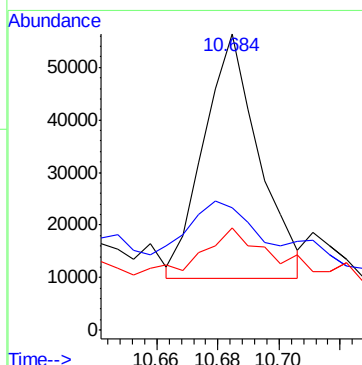
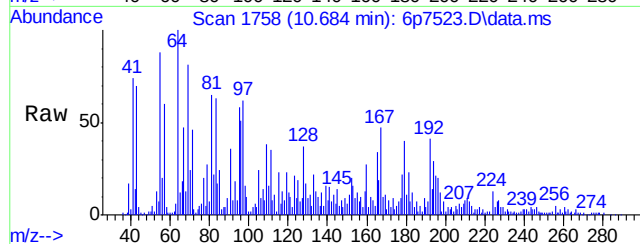
#78
 Anthracene
 Concen: 3.20 ppb
 RT: 10.390 min Scan# 1703
 Delta R.T. -0.005 min
 Lab File: 6p7523.D
 Acq: 30 May 2014 3:17 am

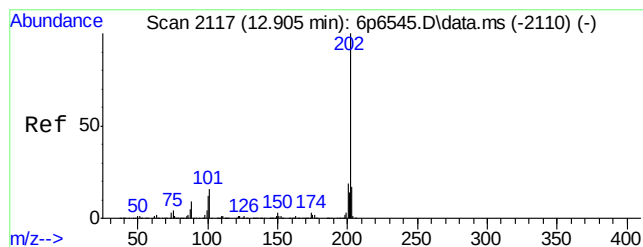
Tgt Ion:	178	Resp:	309535
Ion Ratio	Lower	Upper	
178	100		
179	19.0	0.0	44.9
176	18.5	0.0	48.1



#79
 Carbazole
 Concen: 0.61 ppb
 RT: 10.684 min Scan# 1758
 Delta R.T. 0.000 min
 Lab File: 6p7523.D
 Acq: 30 May 2014 3:17 am

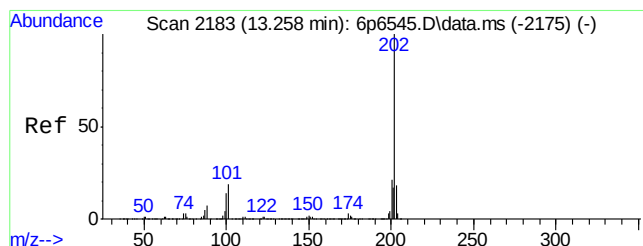
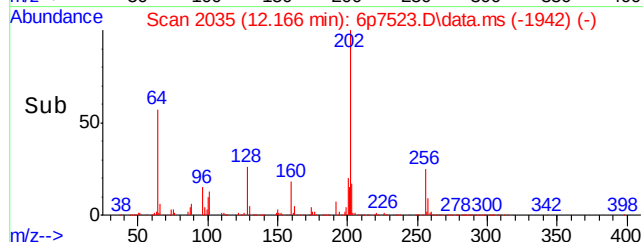
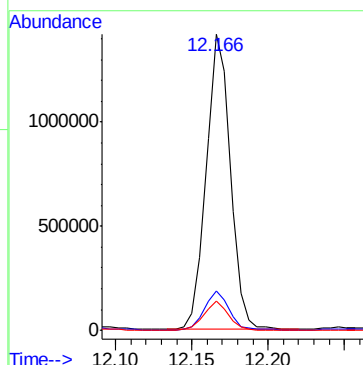
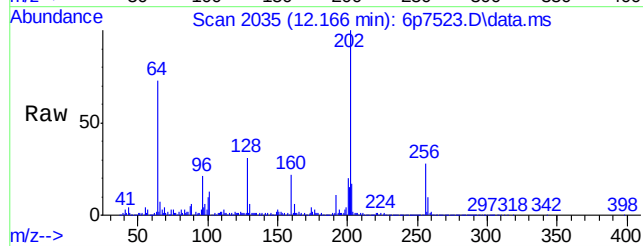
Tgt Ion:	167	Resp:	57746
Ion Ratio	Lower	Upper	
167	100		
166	16.3	0.0	49.7
139	14.0	0.0	43.6





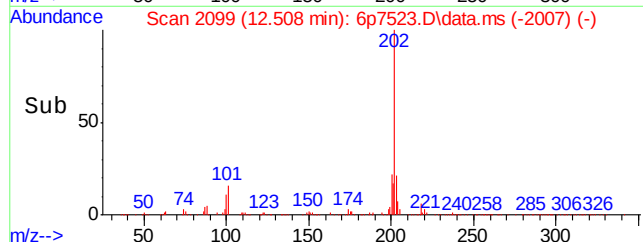
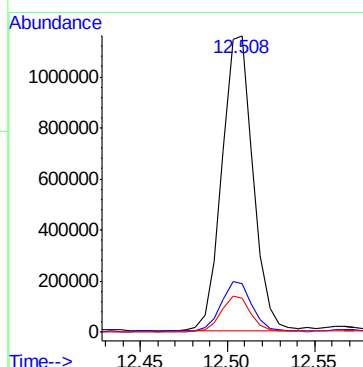
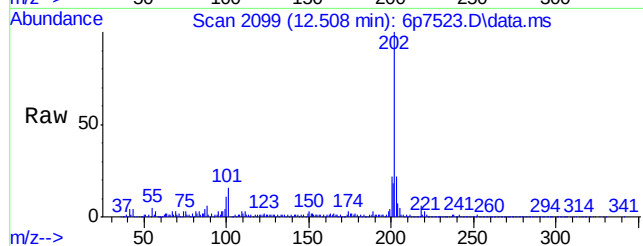
#81
Fluoranthene
Concen: 15.22 ppb
RT: 12.166 min Scan# 2035
Delta R.T. 0.000 min
Lab File: 6p7523.D
Acq: 30 May 2014 3:17 am

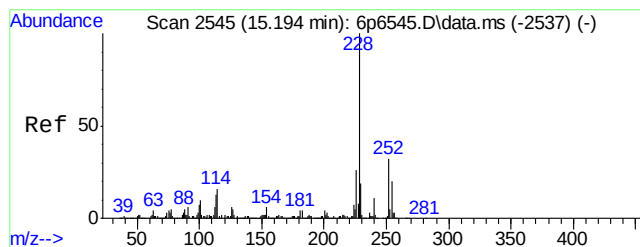
Tgt Ion	Ratio	Lower	Upper
202	100		
101	13.0	0.0	45.6
100	9.9	0.0	41.6



#84
Pyrene
Concen: 14.30 ppb
RT: 12.508 min Scan# 2099
Delta R.T. -0.005 min
Lab File: 6p7523.D
Acq: 30 May 2014 3:17 am

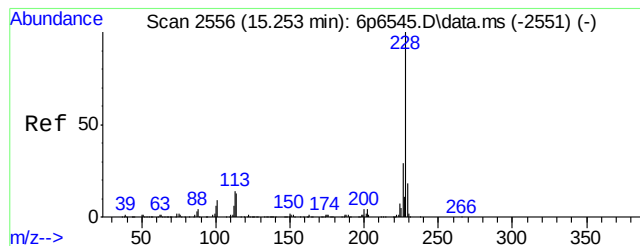
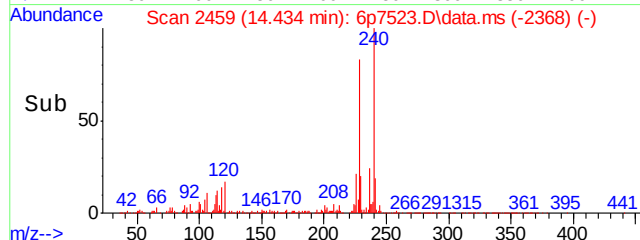
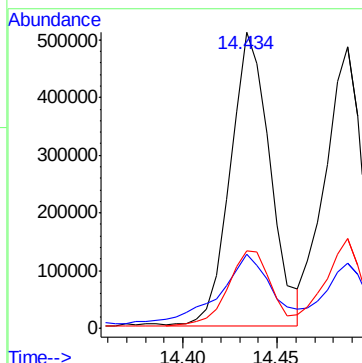
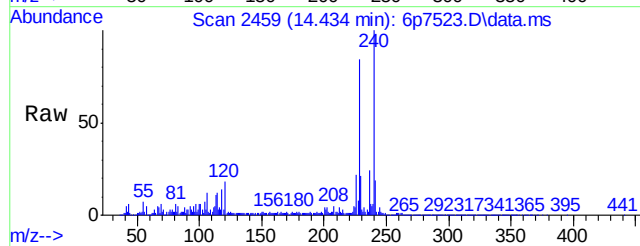
Tgt Ion	Ratio	Lower	Upper
202	100		
101	15.9	0.0	48.7
100	11.3	0.0	44.4





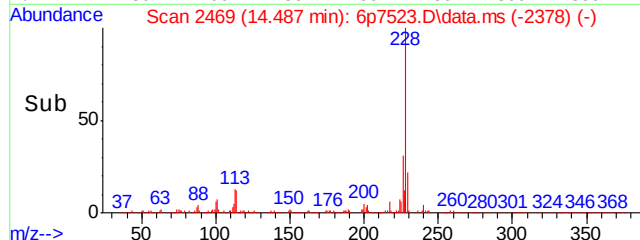
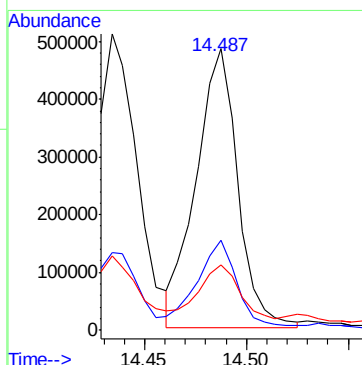
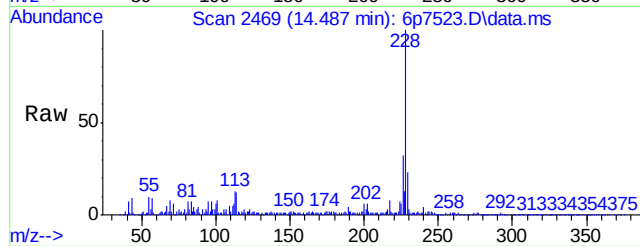
#88
Benzo[a]anthracene
Concen: 8.17 ppb
RT: 14.434 min Scan# 2459
Delta R.T. -0.011 min
Lab File: 6p7523.D
Acq: 30 May 2014 3:17 am

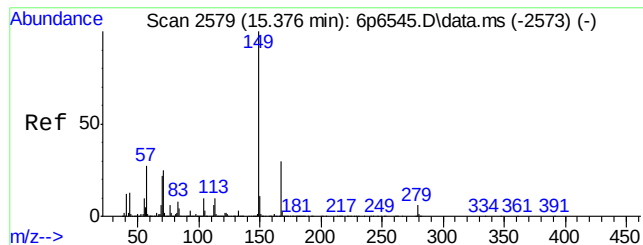
Tgt Ion	Ratio	Lower	Upper
228	100		
229	21.9	0.0	49.2
226	25.6	0.0	55.9



#90
Chrysene
Concen: 8.17 ppb
RT: 14.487 min Scan# 2469
Delta R.T. -0.011 min
Lab File: 6p7523.D
Acq: 30 May 2014 3:17 am

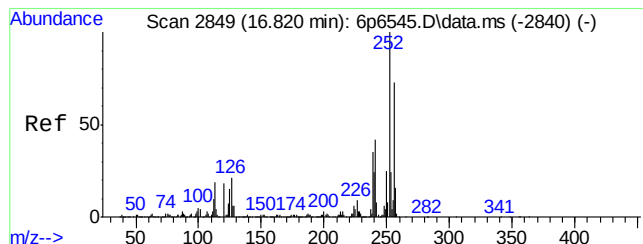
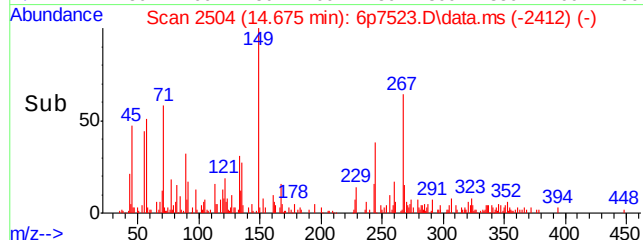
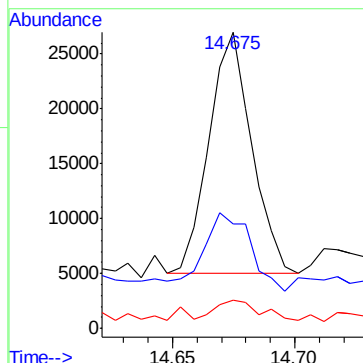
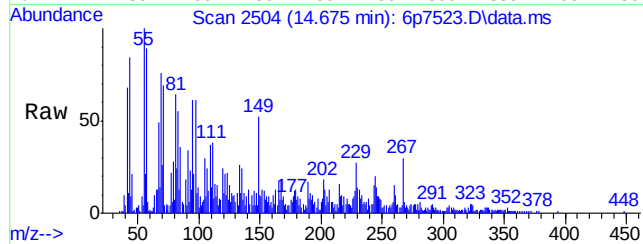
Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.5	0.0	58.5
229	18.5	0.0	48.5





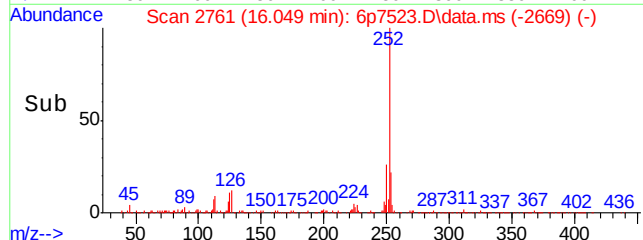
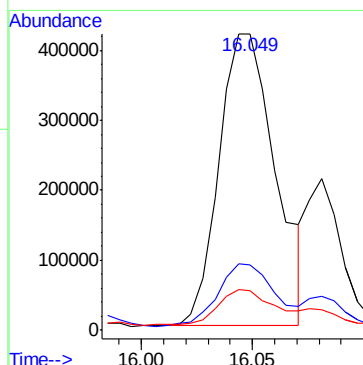
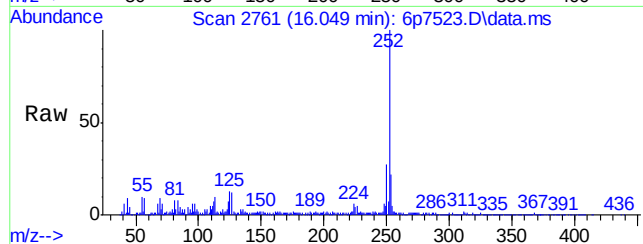
#91
bis(2-Ethylhexyl)phthalate
Concen: 0.41 ppb
RT: 14.675 min Scan# 2504
Delta R.T. -0.005 min
Lab File: 6p7523.D
Acq: 30 May 2014 3:17 am

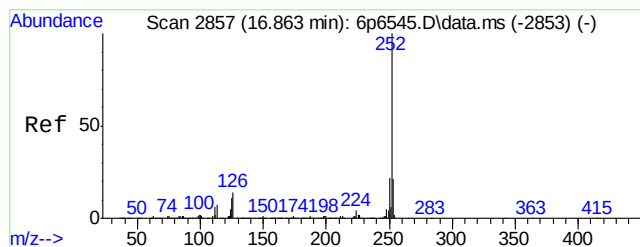
Tgt Ion	Ratio	Lower	Upper
149	100		
167	22.9	0.0	59.5
279	8.5	0.0	35.9



#94
Benzo[b]fluoranthene
Concen: 7.94 ppb
RT: 16.049 min Scan# 2761
Delta R.T. -0.005 min
Lab File: 6p7523.D
Acq: 30 May 2014 3:17 am

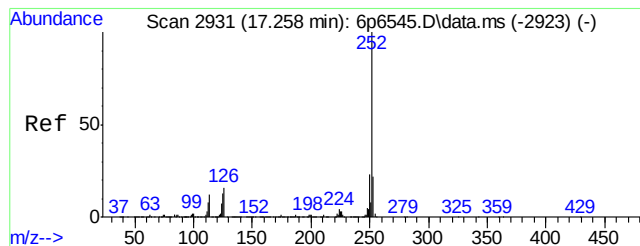
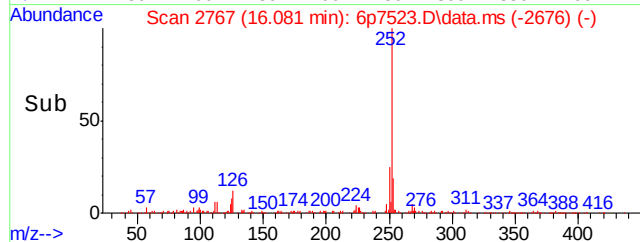
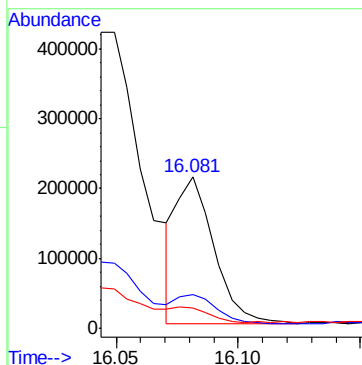
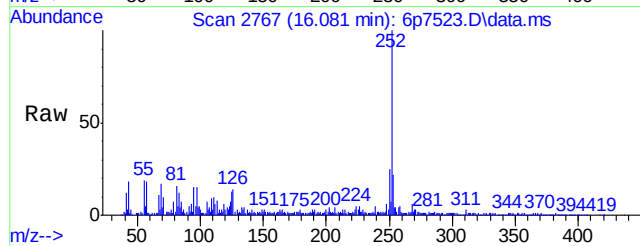
Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.4	0.0	54.8
125	11.1	0.0	44.9





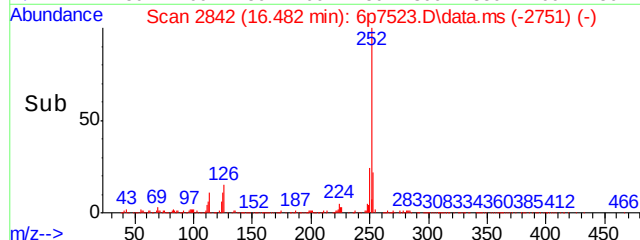
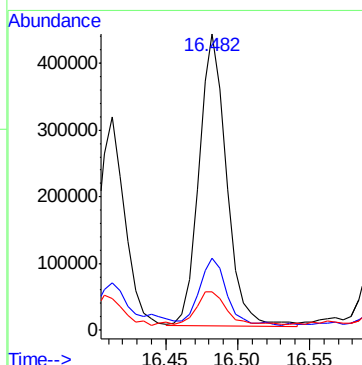
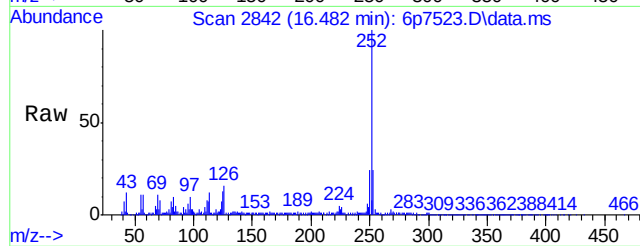
#95
Benzo[k]fluoranthene
Concen: 2.62 ppb
RT: 16.081 min Scan# 2767
Delta R.T. -0.011 min
Lab File: 6p7523.D
Acq: 30 May 2014 3:17 am

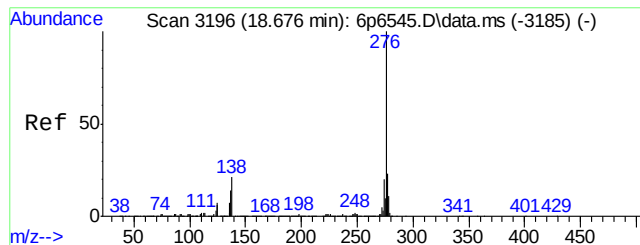
Tgt Ion	Ratio	Lower	Upper
252	100		
253	20.3	0.0	51.1
125	8.3	0.0	40.9



#96
Benzo[a]pyrene
Concen: 7.40 ppb
RT: 16.482 min Scan# 2842
Delta R.T. -0.011 min
Lab File: 6p7523.D
Acq: 30 May 2014 3:17 am

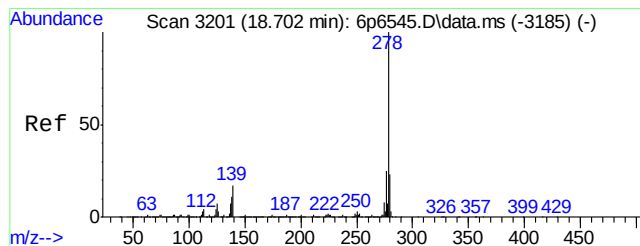
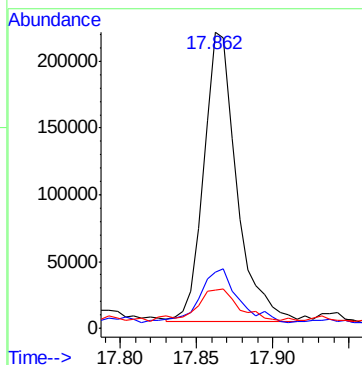
Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.9	0.0	52.0
125	10.7	0.0	42.9





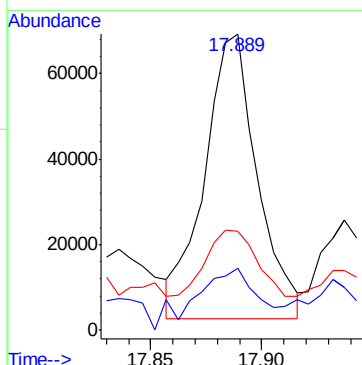
#97
Indeno[1,2,3-cd]pyrene
Concen: 3.94 ppb
RT: 17.862 min Scan# 3100
Delta R.T. -0.011 min
Lab File: 6p7523.D
Acq: 30 May 2014 3:17 am

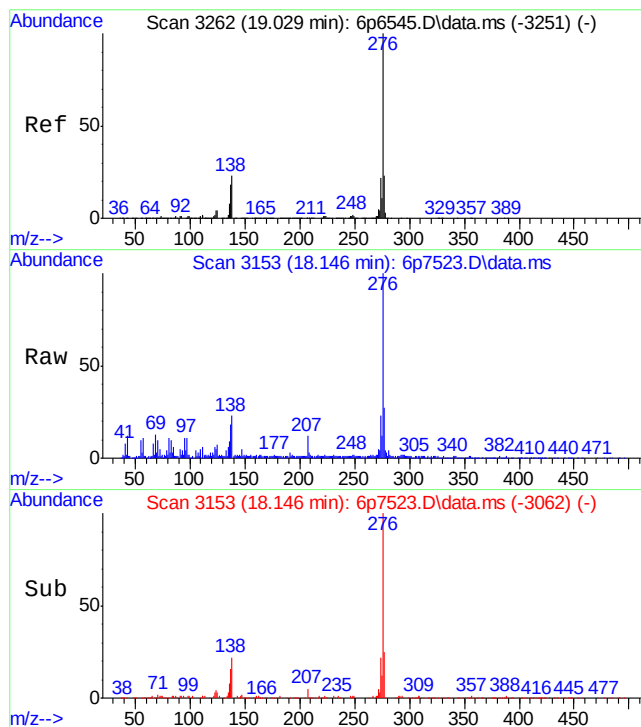
Tgt	Ion:276	Resp:	323854
Ion	Ratio	Lower	Upper
276	100		
138	16.8	0.0	47.0
137	9.7	0.0	41.9



#99
Dibenz[a,h]anthracene
Concen: 1.41 ppb
RT: 17.889 min Scan# 3105
Delta R.T. -0.005 min
Lab File: 6p7523.D
Acq: 30 May 2014 3:17 am

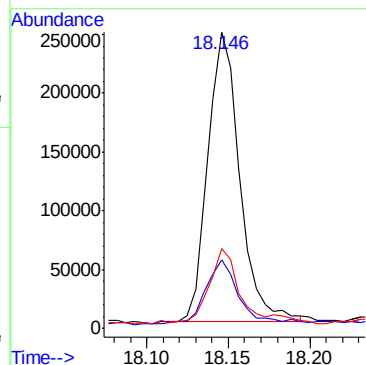
Tgt	Ion:278	Resp:	111045
Ion	Ratio	Lower	Upper
278	100		
139	12.9	0.0	46.9
279	26.0	0.0	52.9





#101
Benzo[g,h,i]perylene
Concen: 4.29 ppb
RT: 18.146 min Scan# 3153
Delta R.T. -0.011 min
Lab File: 6p7523.D
Acq: 30 May 2014 3:17 am

Tgt Ion	Ratio	Lower	Upper
276	100		
138	21.6	0.0	53.4
277	25.4	0.0	52.9



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p319\
 Data File : 6p7524.D
 Acq On : 30 May 2014 3:46 am
 Operator : andrews1
 Sample : jB67898-2
 Misc : op75185,e6p319,31.2
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 30 17:03:20 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Fri May 30 14:18:06 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.090	152	950170	40.00	ppb	0.00
24) Naphthalene-d8	6.175	136	3638817	40.00	ppb	0.00
47) Acenaphthene-d10	8.144	164	2136888	40.00	ppb	-0.01
69) Phenanthrene-d10	10.272	188	3512910	40.00	ppb	-0.01
83) Chrysene-d12	14.444	240	3325048	40.00	ppb	-0.02
92) Perylene-d12	16.562	264	2988385	40.00	ppb	-0.01
102) 1,4-Dichlorobenzene-d4a	5.090	152	950170	40.00	ppb	0.00
104) Phenanthrene-d10a	10.272	188	3512910	40.00	ppb	-0.01
106) Chrysene-d12a	14.444	240	3325048	40.00	ppb	-0.02
108) Acenaphthene-d10a	8.144	164	2136888	40.00	ppb	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	3.849	112	1316534	38.45	ppb	0.00
Spiked Amount 50.000			Recovery	=	76.90%	
8) Phenol-d5	4.844	99	1757815	35.91	ppb	0.00
Spiked Amount 50.000			Recovery	=	71.82%	
25) Nitrobenzene-d5	5.555	82	1750728	36.44	ppb	0.00
Spiked Amount 50.000			Recovery	=	72.88%	
51) 2-Fluorobiphenyl	7.320	172	2707007	43.11	ppb	0.00
Spiked Amount 50.000			Recovery	=	86.22%	
73) 2,4,6-Tribromophenol	9.256	330	487526	53.63	ppb	-0.01
Spiked Amount 50.000			Recovery	=	107.26%	
86) Terphenyl-d14	12.840	244	3223330	49.92	ppb	-0.01
Spiked Amount 50.000			Recovery	=	99.84%	

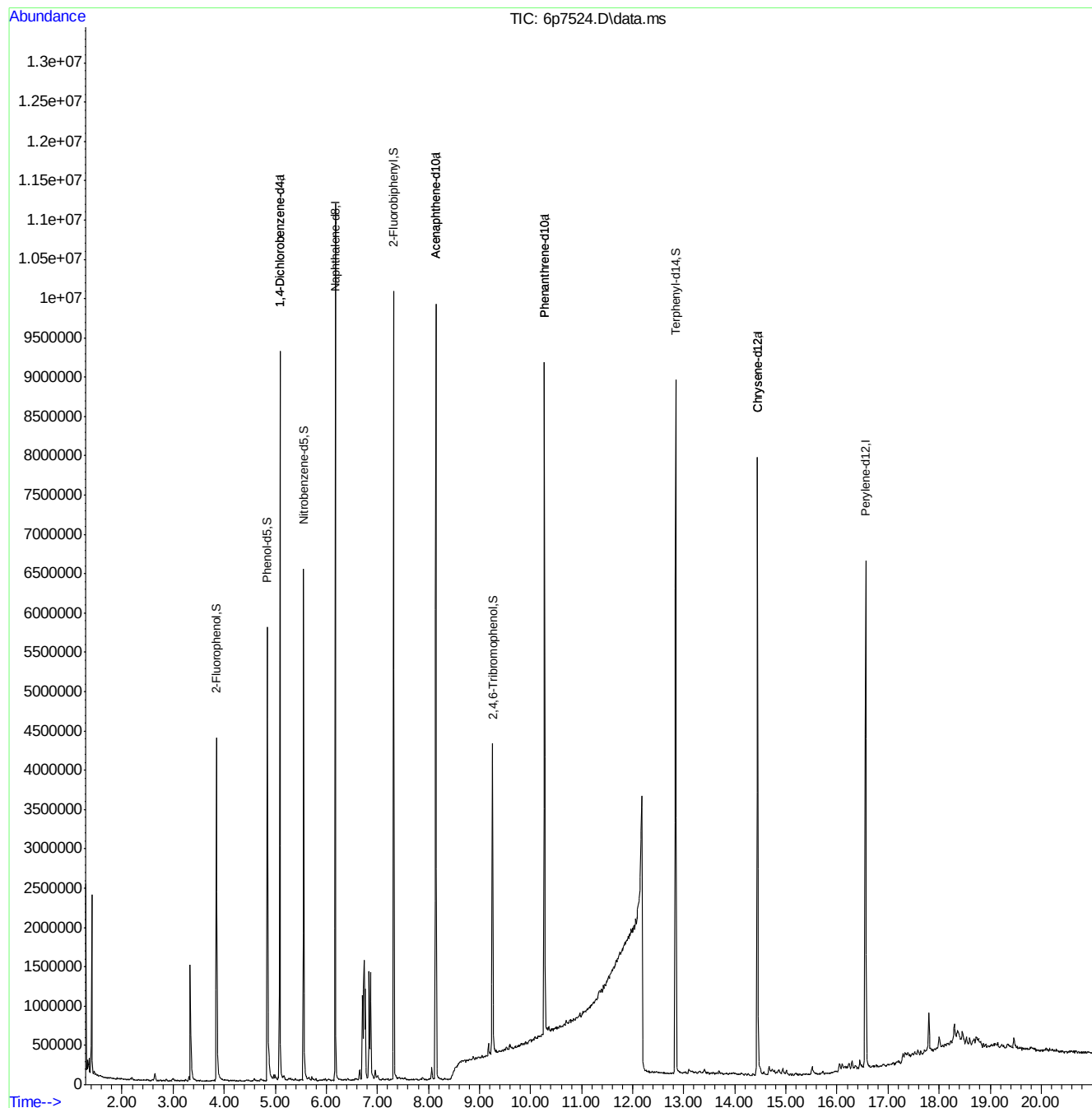
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p319\
Data File : 6p7524.D
Acq On : 30 May 2014 3:46 am
Operator : andrews1
Sample : jb67898-2
Misc : op75185,6p319,31.2
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 30 17:03:20 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Fri May 30 14:18:06 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1542\
Data File : 2p37049.D
Acq On : 30 May 2014 7:32 pm
Operator : harpreek
Sample : jB67898-4
Misc : op75202,e2p1542,1000
ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 31 11:56:30 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri May 30 09:21:23 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.624	152	575315	40.00	ppb	0.00
24) Naphthalene-d8	4.961	136	2179003	40.00	ppb	0.00
47) Acenaphthene-d10	7.026	164	1155914	40.00	ppb	0.00
69) Phenanthrene-d10	8.829	188	1739396	40.00	ppb	0.00
83) Chrysene-d12	12.567	240	1496100	40.00	ppb	-0.01
92) Perylene-d12	14.626	264	1282040	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	3.624	152	575315	40.00	ppb	0.00
104) Acenaphthene-d10a	7.026	164	1155914	40.00	ppb	0.00
107) Chrysene-d12a	12.567	240	1496100	40.00	ppb	-0.01
109) Naphthalene-d8a	4.961	136	2179003	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	2.522	112	457522	23.25	ppb	0.00
Spiked Amount 50.000	Range 11 - 58		Recovery =	46.50%		
8) Phenol-d5	3.271	99	353122	14.85	ppb	0.00
Spiked Amount 50.000	Range 10 - 59		Recovery =	29.70%		
25) Nitrobenzene-d5	4.181	82	844458	43.41	ppb	0.00
Spiked Amount 50.000	Range 19 - 61		Recovery =	86.82%#		
51) 2-Fluorobiphenyl	6.234	172	1589606	43.78	ppb	0.00
Spiked Amount 50.000	Range 21 - 58		Recovery =	87.56%#		
73) 2,4,6-Tribromophenol	7.978	330	195538	48.45	ppb	-0.01
Spiked Amount 50.000	Range 12 - 68		Recovery =	96.90%#		
85) Terphenyl-d14	11.043	244	1449667	48.72	ppb	0.00
Spiked Amount 50.000	Range 16 - 65		Recovery =	97.44%#		

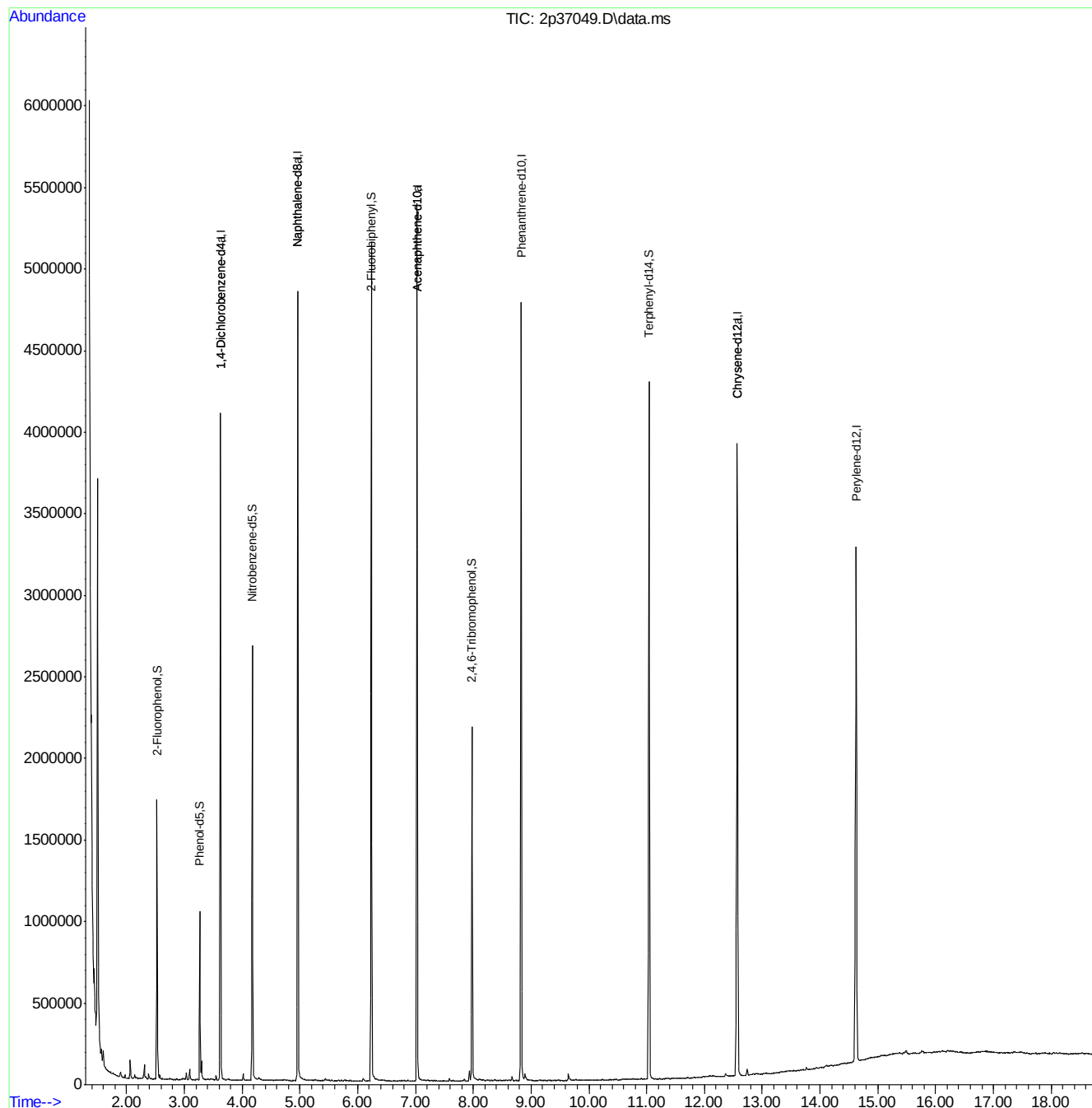
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1542\
Data File : 2p37049.D
Acq On : 30 May 2014 7:32 pm
Operator : harpreek
Sample : jb67898-4
Misc : op75202,e2p1542,1000
ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 31 11:56:30 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri May 30 09:21:23 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p319\
 Data File : 6p7516.D
 Acq On : 30 May 2014 12:00 am
 Operator : andrews1
 Sample : op75185-mb1
 Misc : op75185,e6p319,35.0
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 30 09:33:09 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Sat May 24 10:45:50 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.090	152	926060	40.00	ppb	-0.06
24) Naphthalene-d8	6.175	136	3633646	40.00	ppb	-0.07
47) Acenaphthene-d10	8.144	164	2127314	40.00	ppb	-0.09
69) Phenanthrene-d10	10.272	188	3523692	40.00	ppb	-0.11
83) Chrysene-d12	14.444	240	3495942	40.00	ppb	-0.11
92) Perylene-d12	16.557	264	3170398	40.00	ppb	-0.12
102) 1,4-Dichlorobenzene-d4a	5.090	152	926060	40.00	ppb	-0.06
104) Phenanthrene-d10a	10.272	188	3523692	40.00	ppb	-0.11
106) Chrysene-d12a	14.444	240	3495942	40.00	ppb	-0.11
108) Acenaphthene-d10a	8.187	164	2930	40.00	ppb	-0.05
System Monitoring Compounds						
5) 2-Fluorophenol	3.849	112	1494300	44.78	ppb	-0.07
Spiked Amount 50.000			Recovery	=	89.56%	
8) Phenol-d5	4.844	99	1998224	41.89	ppb	-0.06
Spiked Amount 50.000			Recovery	=	83.78%	
25) Nitrobenzene-d5	5.555	82	2005547	41.80	ppb	-0.06
Spiked Amount 50.000			Recovery	=	83.60%	
51) 2-Fluorobiphenyl	7.320	172	3087222	49.39	ppb	-0.08
Spiked Amount 50.000			Recovery	=	98.78%	
73) 2,4,6-Tribromophenol	9.256	330	495577	54.35	ppb	-0.10
Spiked Amount 50.000			Recovery	=	108.70%	
86) Terphenyl-d14	12.840	244	3638410	53.59	ppb	-0.10
Spiked Amount 50.000			Recovery	=	107.18%	

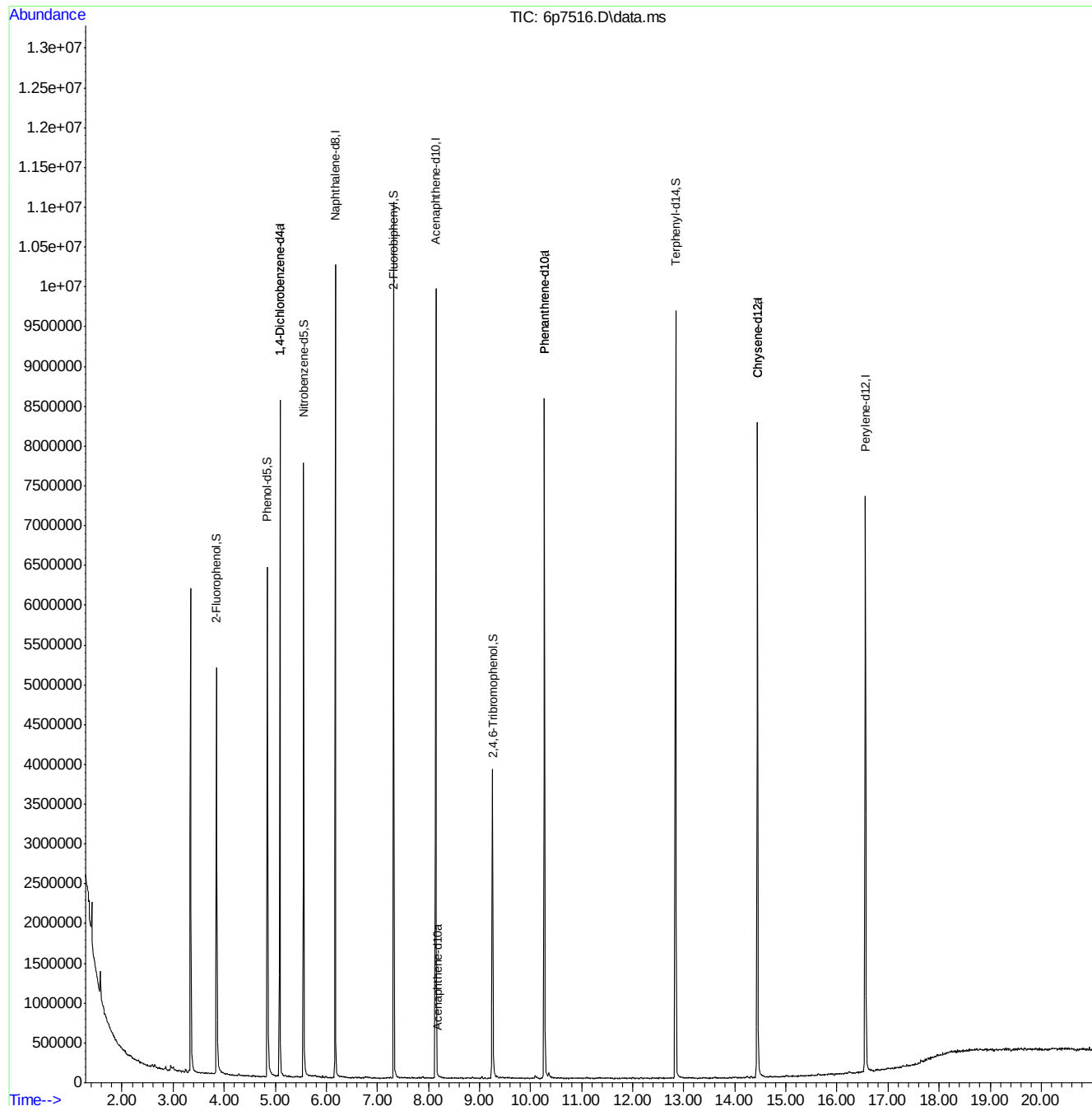
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p319\
Data File : 6p7516.D
Acq On : 30 May 2014 12:00 am
Operator : andrews1
Sample : op75185-mb1
Misc : op75185,e6p319,35.0
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 30 09:33:09 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Sat May 24 10:45:50 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1542\
 Data File : 2p37032.D
 Acq On : 30 May 2014 10:07 am
 Operator : harpreek
 Sample : op75202-mb1
 Misc : op75202,e2p1542,1000
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 30 14:12:02 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Fri May 30 09:21:23 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.619	152	590608	40.00	ppb	0.00
24) Naphthalene-d8	4.956	136	2236826	40.00	ppb	-0.01
47) Acenaphthene-d10	7.021	164	1181159	40.00	ppb	-0.01
69) Phenanthrene-d10	8.818	188	1808684	40.00	ppb	-0.02
83) Chrysene-d12	12.557	240	1594632	40.00	ppb	-0.02
92) Perylene-d12	14.616	264	1466521	40.00	ppb	-0.02
102) 1,4-Dichlorobenzene-d4a	3.619	152	590608	40.00	ppb	0.00
104) Acenaphthene-d10a	7.021	164	1181159	40.00	ppb	-0.01
107) Chrysene-d12a	12.557	240	1594632	40.00	ppb	-0.02
109) Naphthalene-d8a	4.956	136	2236826	40.00	ppb	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	2.517	112	690566	34.18	ppb	0.00
Spiked Amount 50.000	Range 11	- 58	Recovery	=	68.36%#	
8) Phenol-d5	3.255	99	686724	28.13	ppb	-0.02
Spiked Amount 50.000	Range 10	- 59	Recovery	=	56.26%	
25) Nitrobenzene-d5	4.170	82	863084	43.22	ppb	-0.02
Spiked Amount 50.000	Range 19	- 61	Recovery	=	86.44%#	
51) 2-Fluorobiphenyl	6.234	172	1551808	41.83	ppb	0.00
Spiked Amount 50.000	Range 21	- 58	Recovery	=	83.66%#	
73) 2,4,6-Tribromophenol	7.973	330	178052	42.43	ppb	-0.02
Spiked Amount 50.000	Range 12	- 68	Recovery	=	84.86%#	
85) Terphenyl-d14	11.037	244	1526441	48.13	ppb	-0.01
Spiked Amount 50.000	Range 16	- 65	Recovery	=	96.26%#	

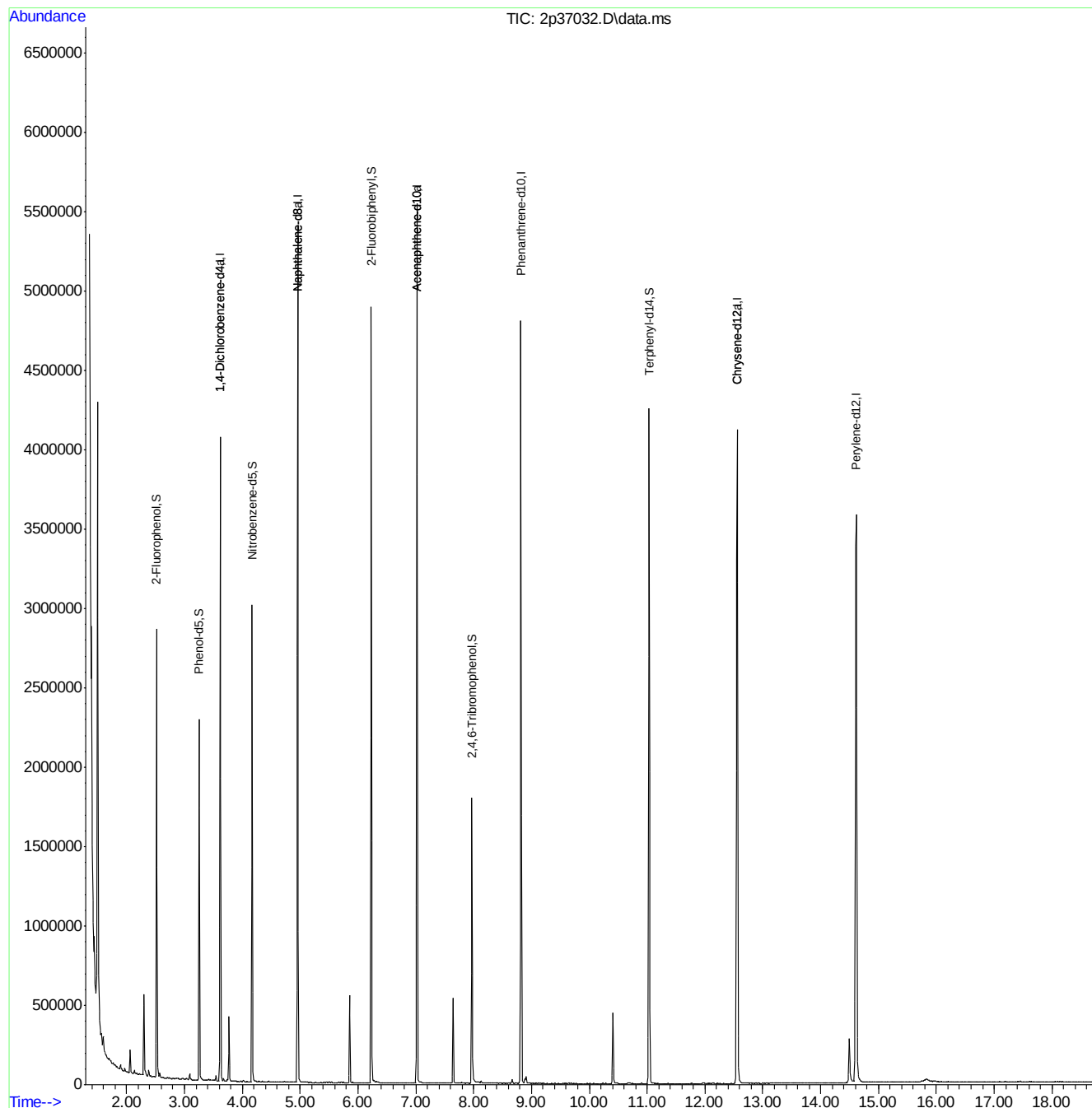
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1542\
Data File : 2p37032.D
Acq On : 30 May 2014 10:07 am
Operator : harpreek
Sample : op75202-mb1
Misc : op75202,e2p1542,1000
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 30 14:12:02 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri May 30 09:21:23 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p319\
 Data File : 6p7517.D
 Acq On : 30 May 2014 12:28 am
 Operator : andrews1
 Sample : op75185-bs1
 Misc : op75185,e6p319,35.0
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 30 09:34:30 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Sat May 24 10:45:50 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.090	152	975786	40.00	ppb	-0.06
24) Naphthalene-d8	6.176	136	3751202	40.00	ppb	-0.07
47) Acenaphthene-d10	8.149	164	2212251	40.00	ppb	-0.09
69) Phenanthrene-d10	10.278	188	3747499	40.00	ppb	-0.10
83) Chrysene-d12	14.450	240	3792314	40.00	ppb	-0.11
92) Perylene-d12	16.563	264	3101898	40.00	ppb	-0.11
102) 1,4-Dichlorobenzene-d4a	5.090	152	975786	40.00	ppb	-0.06
104) Phenanthrene-d10a	10.278	188	3747499	40.00	ppb	-0.10
106) Chrysene-d12a	14.450	240	3792314	40.00	ppb	-0.11
108) Acenaphthene-d10a	8.149	164	2212251	40.00	ppb	-0.09
System Monitoring Compounds						
5) 2-Fluorophenol	3.849	112	1562733	44.44	ppb	-0.07
Spiked Amount 50.000			Recovery	=	88.88%	
8) Phenol-d5	4.849	99	2137411	42.52	ppb	-0.05
Spiked Amount 50.000			Recovery	=	85.04%	
25) Nitrobenzene-d5	5.560	82	2086719	42.13	ppb	-0.05
Spiked Amount 50.000			Recovery	=	84.26%	
51) 2-Fluorobiphenyl	7.320	172	3212393	49.42	ppb	-0.08
Spiked Amount 50.000			Recovery	=	98.84%	
73) 2,4,6-Tribromophenol	9.256	330	531123	54.77	ppb	-0.10
Spiked Amount 50.000			Recovery	=	109.54%	
86) Terphenyl-d14	12.840	244	3684590	50.03	ppb	-0.10
Spiked Amount 50.000			Recovery	=	100.06%	
Target Compounds						
2) 1,4-Dioxane	1.597	88	471190	27.88	ppb	Qvalue 88
3) Pyridine	1.891	79	1508122	34.10	ppb	80
4) N-Nitrosodimethylamine	1.865	74	1030313	39.71	ppb	64
6) Indene	5.304	116	2922877	44.76	ppb	98
7) Cumene	4.346	105	4196002	40.50	ppb	99
9) Phenol	4.865	94	2337906	40.25	ppb	94
10) Aniline	4.812	93	1756284	27.40	ppb	94
11) bis(2-Chloroethyl)ether	4.887	93	1766494	43.36	ppb	99
12) 2-Chlorophenol	4.919	128	1600689	48.08	ppb	99
13) Decane	4.983	43	1121293	45.63	ppb	80
14) 1,3-Dichlorobenzene	5.036	146	1724483	48.80	ppb	98
15) 1,4-Dichlorobenzene	5.106	146	1740325	48.99	ppb	98
16) Benzyl alcohol	5.240	108	1190614	48.63	ppb	96
17) 1,2-Dichlorobenzene	5.229	146	1707976	51.46	ppb	99
18) Acetophenone	5.437	105	2584076	42.21	ppb	88
19) 2-Methylphenol	5.363	108	1576533	46.31	ppb	99
20) 2,2'-oxybis(1-Chloropr...	5.346	121	564067	48.32	ppb	# 82
21) 3&4-Methylphenol	5.491	108	1669545	45.64	ppb	100
22) n-Nitroso-di-n-propyla...	5.459	70	1435199	43.64	ppb	88
23) Hexachloroethane	5.502	201	626465	52.43	ppb	97
26) Nitrobenzene	5.576	77	2238064	43.94	ppb	96
27) Quinoline	6.523	129	2928626	44.59	ppb	99
28) Isophorone	5.780	82	3656253	43.35	ppb	93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p319\
 Data File : 6p7517.D
 Acq On : 30 May 2014 12:28 am
 Operator : andrews1
 Sample : op75185-bs1
 Misc : op75185,e6p319,35.0
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 30 09:34:30 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Sat May 24 10:45:50 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
29) 2-Nitrophenol	5.844	139	813234	49.99	ppb	95
30) 2,4-Dimethylphenol	5.919	107	1957447	50.98	ppb	97
31) Benzoic Acid	6.058	105	967327m	49.52	ppb	
32) bis(2-Chloroethoxy)met...	5.983	93	2137912	45.98	ppb	99
33) 2,4-Dichlorophenol	6.079	162	1250490	53.45	ppb	96
34) 2,6-Dichlorophenol	6.277	162	1250423	52.57	ppb	97
36) 1,2,4-Trichlorobenzene	6.133	180	1428268	52.61	ppb	98
38) Naphthalene	6.197	128	4863499	51.15	ppb	99
39) 4-Chloroaniline	6.272	127	940329	23.49	ppb	96
40) 2,3-Dichloroaniline	7.219	161	1302208	40.13	ppb	97
41) Caprolactam	6.641	55	560523	41.60	ppb	94
42) Hexachlorobutadiene	6.325	225	903861	58.96	ppb	99
43) 4-Chloro-3-methylphenol	6.796	107	1727661	48.54	ppb	99
44) 2-Methylnaphthalene	6.898	141	2609122	48.81	ppb	96
45) 1-Methylnaphthalene	6.999	141	2563814	46.74	ppb	99
46) Dimethylnaphthalene	7.625	156	2722307	45.96	ppb	98
48) Hexachlorocyclopentadiene	7.079	237	1784601	108.77	ppb	99
49) 2,4,6-Trichlorophenol	7.240	196	910642	53.01	ppb	98
50) 2,4,5-Trichlorophenol	7.293	196	953109	52.72	ppb	99
52) 2-Chloronaphthalene	7.449	162	2917938	50.16	ppb	97
53) Biphenyl	7.438	154	3687852	46.01	ppb	99
54) 2-Nitroaniline	7.604	65	1112494	43.40	ppb	95
55) Dimethylphthalate	7.850	163	3485692	53.55	ppb	99
56) Acenaphthylene	7.957	152	4097397	43.29	ppb	99
57) 2,6-Dinitrotoluene	7.919	165	760879	50.95	ppb	93
58) 3-Nitroaniline	8.133	138	505343	29.89	ppb	96
59) Acenaphthene	8.192	153	3177246	53.15	ppb	99
60) 2,4-Dinitrophenol	8.294	184	663858	76.79	ppb	93
61) 4-Nitrophenol	8.454	109	630125	45.86	ppb	86
62) Dibenzofuran	8.427	168	4046312	49.44	ppb	97
63) 2,4-Dinitrotoluene	8.465	165	1052518	51.16	ppb	84
64) 2,3,4,6-Tetrachlorophenol	8.631	232	750642	49.95	ppb	98
65) Diethylphthalate	8.823	149	3681725	53.29	ppb	99
66) Fluorene	8.903	166	3591346	53.07	ppb	99
67) 4-Chlorophenyl-phenyle...	8.930	204	1615217	54.37	ppb	98
68) 4-Nitroaniline	8.989	138	743731	45.11	ppb	87
70) 4,6-Dinitro-2-methylph...	9.048	198	500201	41.80	ppb	97
71) n-Nitrosodiphenylamine	9.117	169	2410427	52.08	ppb	99
72) 1,2-Diphenylhydrazine	9.160	77	4522516	42.17	ppb	95
74) 4-Bromophenyl-phenylether	9.641	248	973696	55.40	ppb	97
75) Hexachlorobenzene	9.716	284	1090458	51.20	ppb	94
76) Pentachlorophenol	10.043	266	569561	49.69	ppb	100
77) Phenanthrene	10.315	178	4885208	48.64	ppb	98
78) Anthracene	10.390	178	5023108	49.95	ppb	99
79) Carbazole	10.679	167	4373858	44.34	ppb	99
80) Di-n-butylphthalate	11.332	149	6186209	52.46	ppb	99
81) Fluoranthene	12.161	202	5241330	49.45	ppb	96
82) Octadecane	10.283	57	2000513	42.59	ppb	87
84) Pyrene	12.503	202	5427164	48.77	ppb	92
87) Butylbenzylphthalate	13.696	149	2658132	50.29	ppb	91

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p319\
Data File : 6p7517.D
Acq On : 30 May 2014 12:28 am
Operator : andrews1
Sample : op75185-bs1
Misc : op75185,e6p319,35.0
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 30 09:34:30 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Sat May 24 10:45:50 2014
Response via : Initial Calibration

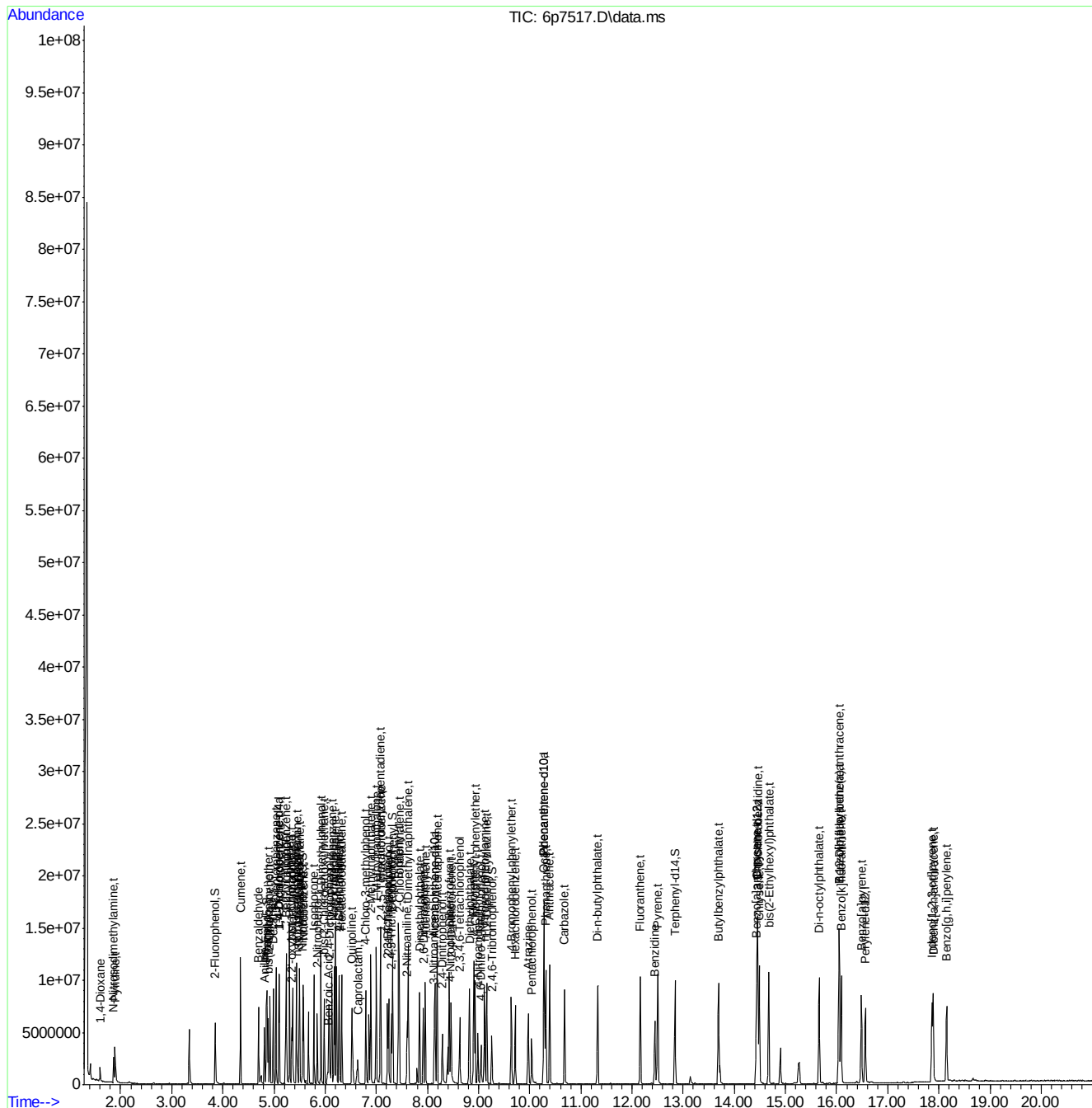
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
88) Benzo[a]anthracene	14.434	228	4876941	48.35	ppb	99
89) 3,3'-Dichlorobenzidine	14.461	252	2433173	70.99	ppb	98
90) Chrysene	14.493	228	4709392	50.73	ppb	99
91) bis(2-Ethylhexyl)phtha...	14.675	149	3694543	51.58	ppb	99
93) Di-n-octylphthalate	15.659	149	6199276	55.98	ppb	97
94) Benzo[b]fluoranthene	16.054	252	5002277	53.98	ppb	95
95) Benzo[k]fluoranthene	16.092	252	4648097	54.45	ppb	99
96) Benzo[a]pyrene	16.488	252	4185525	52.55	ppb	96
97) Indeno[1,2,3-cd]pyrene	17.868	276	4022350	48.99	ppb	96
99) Dibenz[a,h]anthracene	17.894	278	4158203	52.82	ppb	97
100) 7,12-Dimethylbenz(a)an...	16.054	256	2224819	42.13	ppb	97
101) Benzo[g,h,i]perylene	18.151	276	3907209	49.75	ppb	97
103) Benzaldehyde	4.699	105	1231108	35.30	ppb	95
105) Atrazine	9.973	215	484995	45.13	ppb	80
107) Benzidine	12.449	184	2750003	47.42	ppb	97
109) 1,2,4,5-Tetrachloroben...	7.090	216	1438224	48.56	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p319\
Data File : 6p7517.D
Acq On : 30 May 2014 12:28 am
Operator : andrews1
Sample : op75185-bs1
Misc : op75185,6p319,35.0
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 30 09:34:30 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Sat May 24 10:45:50 2014
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: OP75185-BS1

Method: SW846 8270D

Lab FileID: 6P7517.D

Analyst approved: 05/30/14 09:37 Ashley Royal

Injection Time: 05/30/14 00:28

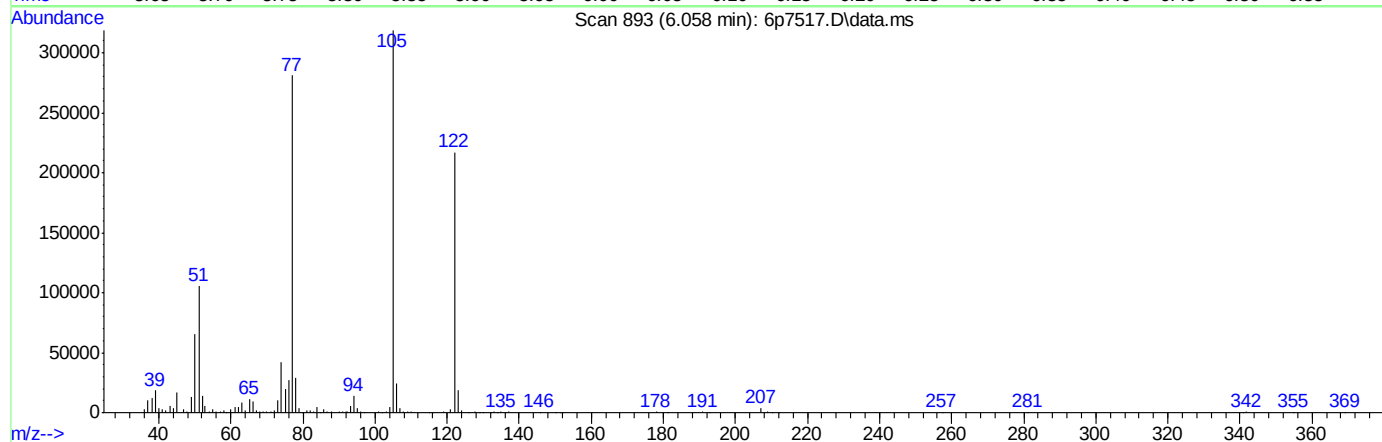
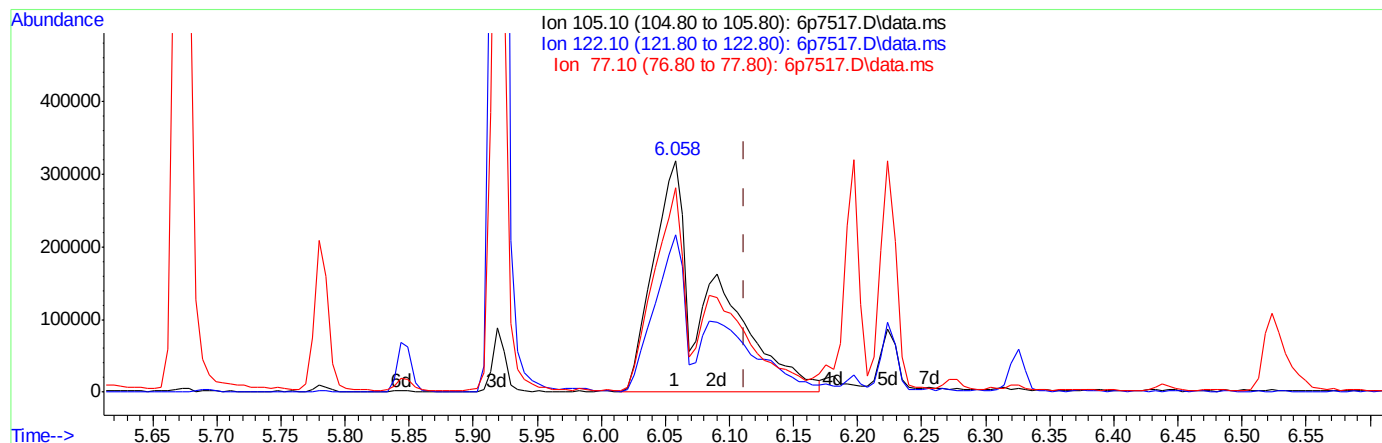
Supervisor approved: 05/30/14 11:28 Kristin Weiler

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic acid	65-85-0		6.06	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\6p319\
Data File : 6p7517.D
Acq On : 30 May 2014 12:28 am
Operator : andrews1
Sample : op75185-bs1
Misc : op75185,e6p319,35.0
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 30 00:49:43 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Sat May 24 10:45:50 2014
Response via : Initial Calibration



(31) Benzoic Acid

6.058min (-0.054) 49.52ppb m

response 967327

Ion	Exp%	Act%
105.10	100	100
122.10	25.10	34.97
77.10	34.70	44.85
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1542\
 Data File : 2p37033.D
 Acq On : 30 May 2014 11:17 am
 Operator : harpreek
 Sample : op75202-bs1
 Misc : op75202,e2p1542,1000
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 30 14:21:16 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Fri May 30 09:21:22 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.624	152	591877	40.00	ppb	0.00
24) Naphthalene-d8	4.961	136	2212843	40.00	ppb	0.00
47) Acenaphthene-d10	7.026	164	1191192	40.00	ppb	0.00
69) Phenanthrene-d10	8.823	188	1783599	40.00	ppb	-0.01
83) Chrysene-d12	12.562	240	1598780	40.00	ppb	-0.02
92) Perylene-d12	14.616	264	1405299	40.00	ppb	-0.02
102) 1,4-Dichlorobenzene-d4a	3.624	152	591877	40.00	ppb	0.00
104) Acenaphthene-d10a	7.026	164	1191192	40.00	ppb	0.00
107) Chrysene-d12a	12.562	240	1598780	40.00	ppb	-0.02
109) Naphthalene-d8a	4.961	136	2212843	40.00	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol	2.522	112	865193	42.73	ppb	0.00
Spiked Amount	50.000	Range	11 - 58	Recovery	=	85.46%#
8) Phenol-d5	3.266	99	1022010	41.78	ppb	0.00
Spiked Amount	50.000	Range	10 - 59	Recovery	=	83.56%#
25) Nitrobenzene-d5	4.175	82	811887	41.10	ppb	-0.01
Spiked Amount	50.000	Range	19 - 61	Recovery	=	82.20%#
51) 2-Fluorobiphenyl	6.234	172	1587465	42.43	ppb	0.00
Spiked Amount	50.000	Range	21 - 58	Recovery	=	84.86%#
73) 2,4,6-Tribromophenol	7.978	330	202593	48.96	ppb	-0.01
Spiked Amount	50.000	Range	12 - 68	Recovery	=	97.92%#
85) Terphenyl-d14	11.032	244	1498096	47.11	ppb	-0.02
Spiked Amount	50.000	Range	16 - 65	Recovery	=	94.22%#

Target Compounds

						Qvalue
2) 1,4-Dioxane	1.624	88	260359	29.47	ppb	98
3) Pyridine	1.779	79	756466	33.25	ppb	99
4) N-Nitrosodimethylamine	1.752	74	487463	42.85	ppb	94
6) Indene	3.876	116	1416011	36.37	ppb	99
7) Cumene	2.924	105	1944212	34.75	ppb	99
9) Phenol	3.282	94	1047509	39.94	ppb	100
10) Aniline	3.309	93	1210973	43.31	ppb	97
11) bis(2-Chloroethyl)ether	3.362	93	817451	44.72	ppb	97
12) 2-Chlorophenol	3.426	128	905720	40.51	ppb	95
13) Decane	3.469	57	724065	31.97	ppb	99
14) 1,3-Dichlorobenzene	3.571	146	993232	41.05	ppb	99
15) 1,4-Dichlorobenzene	3.640	146	985007	41.09	ppb	98
16) Benzyl alcohol	3.753	108	574629	42.95	ppb	99
17) 1,2-Dichlorobenzene	3.790	146	954340	42.40	ppb	100
18) Acetophenone	4.020	105	1107858	34.57	ppb	96
19) 2-Methylphenol	3.865	108	764572	41.77	ppb	100
20) 2,2'-oxybis(1-Chloropr...	3.892	121	254093	43.62	ppb	# 84
21) 3&4-Methylphenol	4.025	108	742855	39.05	ppb	98
22) n-Nitroso-di-n-propyla...	4.025	70	523207	43.43	ppb	100
23) Hexachloroethane	4.132	201	315669	42.36	ppb	94
26) Nitrobenzene	4.197	77	850358	41.83	ppb	99
27) Quinoline	5.368	129	1796872	38.21	ppb	100
28) Isophorone	4.453	82	1497182	43.11	ppb	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1542\
 Data File : 2p37033.D
 Acq On : 30 May 2014 11:17 am
 Operator : harpreek
 Sample : op75202-bs1
 Misc : op75202,e2p1542,1000
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 30 14:21:16 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Fri May 30 09:21:22 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
29) 2-Nitrophenol	4.539	139	438126	41.43	ppb	94
30) 2,4-Dimethylphenol	4.598	107	832348	50.73	ppb	98
31) Benzoic acid	4.742	105	476682	35.56	ppb	100
32) bis(2-Chloroethoxy)met...	4.705	93	1002488	46.56	ppb	100
33) 2,4-Dichlorophenol	4.806	162	707293	44.03	ppb	99
34) 2,6-Dichlorophenol	5.063	162	654043	42.96	ppb	99
36) 1,2,4-Trichlorobenzene	4.903	180	778322	43.46	ppb	97
38) Naphthalene	4.983	128	2496716	42.26	ppb	99
39) 4-Chloroaniline	5.052	127	936533	36.50	ppb	98
40) 2,3-Dichloroaniline	6.122	161	819344	35.35	ppb	98
41) Caprolactam	5.464	113	254843	38.44	ppb	98
42) Hexachlorobutadiene	5.143	225	388488	44.54	ppb	99
43) 4-Chloro-3-methylphenol	5.641	107	728873	42.88	ppb	93
44) 2-Methylnaphthalene	5.785	141	1433186	41.83	ppb	99
45) 1-Methylnaphthalene	5.903	141	1410122	36.43	ppb	100
46) Dimethylnaphthalene	6.534	156	1390548	37.09	ppb	98
48) Hexachlorocyclopentadiene	5.994	237	803714	93.18	ppb	99
49) 2,4,6-Trichlorophenol	6.133	196	447955	45.00	ppb	100
50) 2,4,5-Trichlorophenol	6.170	196	485119	43.74	ppb	98
52) 2-Chloronaphthalene	6.357	162	1520946	43.06	ppb	99
53) Biphenyl	6.347	154	1894019	36.45	ppb	100
54) 2-Nitroaniline	6.491	65	434420	42.68	ppb	99
55) Dimethylphthalate	6.737	163	1760765	45.55	ppb	99
56) Acenaphthylene	6.849	152	2213472	38.08	ppb	99
57) 2,6-Dinitrotoluene	6.796	165	381159	46.37	ppb	92
58) 3-Nitroaniline	6.989	138	414380	37.44	ppb	97
59) Acenaphthene	7.063	153	1658324	45.78	ppb	99
60) 2,4-Dinitrophenol	7.117	184	312066	72.82	ppb	87
61) 4-Nitrophenol	7.219	109	229699	46.41	ppb	92
62) Dibenzofuran	7.272	168	1990979	41.50	ppb	99
63) 2,4-Dinitrotoluene	7.272	165	508468	46.98	ppb	100
64) 2,3,4,6-Tetrachlorophenol	7.432	232	344780	47.66	ppb	92
65) Diethylphthalate	7.598	149	1852696	45.96	ppb	100
66) Fluorene	7.684	166	1775807	45.67	ppb	100
67) 4-Chlorophenyl-phenyle...	7.705	204	748375	47.03	ppb	94
68) 4-Nitroaniline	7.727	138	467443	43.33	ppb	93
70) 4,6-Dinitro-2-methylph...	7.764	198	208400	39.94	ppb	95
71) n-Nitrosodiphenylamine	7.850	169	1201953	48.51	ppb	99
72) 1,2-Diphenylhydrazine	7.892	77	1738558	44.85	ppb	98
74) 4-Bromophenyl-phenylether	8.288	248	429175	49.08	ppb	97
75) Hexachlorobenzene	8.358	284	483978	47.05	ppb	98
76) Pentachlorophenol	8.604	266	275410	44.43	ppb	99
77) Phenanthrene	8.855	178	2343462	45.14	ppb	99
78) Anthracene	8.919	178	2390746	46.80	ppb	99
79) Carbazole	9.139	167	2297503	38.58	ppb	99
80) Di-n-butylphthalate	9.658	149	3206133	49.70	ppb	100
81) Fluoranthene	10.444	202	2573861	47.01	ppb	98
82) Octadecane	8.780	43	623462	38.03	ppb	97
84) Pyrene	10.759	202	2614410	46.88	ppb	100
86) Butylbenzylphthalate	11.808	149	1390726	53.19	ppb	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1542\
Data File : 2p37033.D
Acq On : 30 May 2014 11:17 am
Operator : harpreek
Sample : op75202-bs1
Misc : op75202,e2p1542,1000
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 30 14:21:16 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri May 30 09:21:22 2014
Response via : Initial Calibration

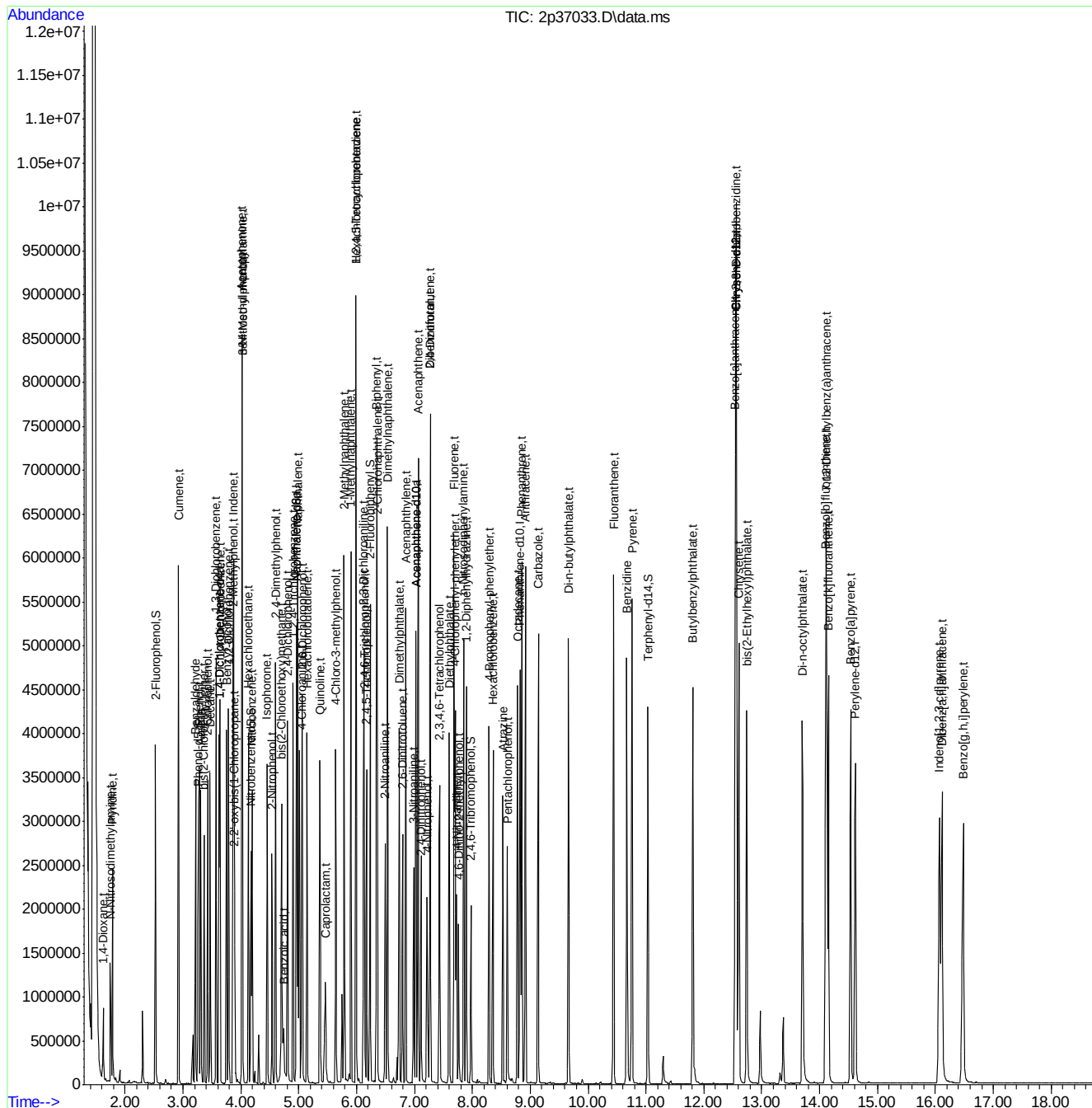
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
88) Benzo[a]anthracene	12.546	228	2193298	46.40	ppb	100
89) 3,3'-Dichlorobenzidine	12.556	252	1315686	86.32	ppb	99
90) Chrysene	12.605	228	2032150	49.33	ppb	100
91) bis(2-Ethylhexyl)phtha...	12.738	149	1825464	52.16	ppb	100
93) Di-n-octylphthalate	13.701	149	3203373	45.20	ppb	99
94) Benzo[b]fluoranthene	14.108	252	2251487	49.28	ppb	98
95) Benzo[k]fluoranthene	14.150	252	2041047	48.95	ppb	99
96) Benzo[a]pyrene	14.541	252	1984997	51.28	ppb	99
97) Indeno[1,2,3-cd]pyrene	16.071	276	1951987	42.16	ppb	94
99) Dibenz[a,h]anthracene	16.113	278	1924234	52.08	ppb	98
100) 7,12-Dimethylbenz(a)an...	14.118	256	969378	41.20	ppb	98
101) Benzo[g,h,i]perylene	16.482	276	2000742	53.07	ppb	99
103) Benzaldehyde	3.218	105	673786	42.91	ppb	98
105) Atrazine	8.529	215	197169	47.67	ppb	96
106) 1,2,4,5-Tetrachloroben...	5.994	216	698261	42.57	ppb	98
108) Benzidine	10.668	184	2190529	77.49	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1542\
Data File : 2p37033.D
Acq On : 30 May 2014 11:17 am
Operator : harprek
Sample : op75202-bs1
Misc : op75202,e2p1542,1000
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 30 14:21:16 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri May 30 09:21:22 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1542\
 Data File : 2p37035.D
 Acq On : 30 May 2014 11:40 am
 Operator : harpreek
 Sample : op75202-bsd
 Misc : op75202,e2p1542,1000
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 30 14:21:31 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Fri May 30 09:21:22 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.619	152	567740	40.00	ppb	0.00
24) Naphthalene-d8	4.961	136	2095416	40.00	ppb	0.00
47) Acenaphthene-d10	7.026	164	1113326	40.00	ppb	0.00
69) Phenanthrene-d10	8.823	188	1682914	40.00	ppb	-0.01
83) Chrysene-d12	12.562	240	1520278	40.00	ppb	-0.02
92) Perylene-d12	14.616	264	1410112	40.00	ppb	-0.02
102) 1,4-Dichlorobenzene-d4a	3.619	152	567740	40.00	ppb	0.00
104) Acenaphthene-d10a	7.026	164	1113326	40.00	ppb	0.00
107) Chrysene-d12a	12.562	240	1520278	40.00	ppb	-0.02
109) Naphthalene-d8a	4.961	136	2095416	40.00	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol	2.522	112	715463	36.84	ppb	0.00
Spiked Amount	50.000	Range	11 - 58	Recovery	=	73.68%#
8) Phenol-d5	3.266	99	668731	28.50	ppb	0.00
Spiked Amount	50.000	Range	10 - 59	Recovery	=	57.00%
25) Nitrobenzene-d5	4.175	82	883561	47.23	ppb	-0.01
Spiked Amount	50.000	Range	19 - 61	Recovery	=	94.46%#
51) 2-Fluorobiphenyl	6.234	172	1604066	45.87	ppb	0.00
Spiked Amount	50.000	Range	21 - 58	Recovery	=	91.74%#
73) 2,4,6-Tribromophenol	7.978	330	210381	53.88	ppb	-0.01
Spiked Amount	50.000	Range	12 - 68	Recovery	=	107.76%#
85) Terphenyl-d14	11.032	244	1595248	52.76	ppb	-0.02
Spiked Amount	50.000	Range	16 - 65	Recovery	=	105.52%#

Target Compounds

						Qvalue
2) 1,4-Dioxane	1.618	88	250676	29.58	ppb	98
3) Pyridine	1.773	79	523831	24.00	ppb	99
4) N-Nitrosodimethylamine	1.747	74	430438	39.45	ppb	99
6) Indene	3.876	116	1459995	39.09	ppb	98
7) Cumene	2.923	105	1901903	35.44	ppb	99
9) Phenol	3.276	94	692895	27.54	ppb	97
10) Aniline	3.309	93	740840	27.62	ppb	99
11) bis(2-Chloroethyl)ether	3.362	93	890330	50.78	ppb	98
12) 2-Chlorophenol	3.421	128	925912	43.17	ppb	99
13) Decane	3.469	57	615373	28.33	ppb	99
14) 1,3-Dichlorobenzene	3.571	146	812804	35.02	ppb	99
15) 1,4-Dichlorobenzene	3.635	146	822142	35.75	ppb	100
16) Benzyl alcohol	3.752	108	558145	43.50	ppb	98
17) 1,2-Dichlorobenzene	3.790	146	805789	37.33	ppb	99
18) Acetophenone	4.020	105	1201855	39.09	ppb	99
19) 2-Methylphenol	3.865	108	731432	41.66	ppb	100
20) 2,2'-oxybis(1-Chloropr...	3.892	121	266020	47.61	ppb	# 88
21) 3&4-Methylphenol	4.025	108	671989	36.83	ppb	99
22) n-Nitroso-di-n-propyla...	4.025	70	563201	48.74	ppb	99
23) Hexachloroethane	4.132	201	237670	33.25	ppb	94
26) Nitrobenzene	4.196	77	906088	47.07	ppb	98
27) Quinoline	5.368	129	1689547	37.94	ppb	100
28) Isophorone	4.453	82	1576823	47.95	ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1542\
 Data File : 2p37035.D
 Acq On : 30 May 2014 11:40 am
 Operator : harpreek
 Sample : op75202-bsd
 Misc : op75202,e2p1542,1000
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 30 14:21:31 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Fri May 30 09:21:22 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
29) 2-Nitrophenol	4.539	139	474936	47.43	ppb	94
30) 2,4-Dimethylphenol	4.598	107	819845	52.77	ppb	100
31) Benzoic acid	4.726	105	315996	26.18	ppb	98
32) bis(2-Chloroethoxy)met...	4.699	93	1060447	52.01	ppb	99
33) 2,4-Dichlorophenol	4.806	162	727632	47.83	ppb	99
34) 2,6-Dichlorophenol	5.063	162	682007	47.31	ppb	99
36) 1,2,4-Trichlorobenzene	4.902	180	601701	35.48	ppb	98
38) Naphthalene	4.983	128	2210578	39.51	ppb	100
39) 4-Chloroaniline	5.052	127	536250	22.07	ppb	98
40) 2,3-Dichloroaniline	6.122	161	785639	35.80	ppb	99
41) Caprolactam	5.443	113	114447	18.23	ppb	97
42) Hexachlorobutadiene	5.143	225	264272	32.00	ppb	99
43) 4-Chloro-3-methylphenol	5.635	107	740603	46.01	ppb	95
44) 2-Methylnaphthalene	5.785	141	1453483	44.80	ppb	99
45) 1-Methylnaphthalene	5.903	141	1420160	38.75	ppb	99
46) Dimethylnaphthalene	6.534	156	1333175	37.55	ppb	98
48) Hexachlorocyclopentadiene	5.988	237	560085	69.47	ppb	97
49) 2,4,6-Trichlorophenol	6.133	196	469859	50.51	ppb	99
50) 2,4,5-Trichlorophenol	6.170	196	509405	49.14	ppb	99
52) 2-Chloronaphthalene	6.357	162	1230788	37.28	ppb	99
53) Biphenyl	6.347	154	1883302	38.78	ppb	99
54) 2-Nitroaniline	6.491	65	449568	47.25	ppb	99
55) Dimethylphthalate	6.737	163	1820048	50.38	ppb	99
56) Acenaphthylene	6.849	152	1990460	36.64	ppb	100
57) 2,6-Dinitrotoluene	6.796	165	397386	51.72	ppb	91
58) 3-Nitroaniline	6.983	138	288480	27.89	ppb	96
59) Acenaphthene	7.063	153	1472168	43.49	ppb	98
60) 2,4-Dinitrophenol	7.111	184	332231	81.26	ppb	93
61) 4-Nitrophenol	7.213	109	177261	38.32	ppb	95
62) Dibenzofuran	7.272	168	2058402	45.91	ppb	100
63) 2,4-Dinitrotoluene	7.272	165	534220	52.81	ppb	99
64) 2,3,4,6-Tetrachlorophenol	7.432	232	352277	52.10	ppb	93
65) Diethylphthalate	7.598	149	1917137	50.88	ppb	100
66) Fluorene	7.684	166	1697572	46.71	ppb	97
67) 4-Chlorophenyl-phenyle...	7.705	204	692723	46.58	ppb	93
68) 4-Nitroaniline	7.727	138	470559	46.67	ppb	97
70) 4,6-Dinitro-2-methylph...	7.764	198	227578	45.53	ppb	99
71) n-Nitrosodiphenylamine	7.850	169	1193709	51.06	ppb	98
72) 1,2-Diphenylhydrazine	7.892	77	1754221	47.96	ppb	98
74) 4-Bromophenyl-phenylether	8.288	248	415384	50.35	ppb	99
75) Hexachlorobenzene	8.358	284	496789	51.19	ppb	98
76) Pentachlorophenol	8.598	266	286802	48.43	ppb	100
77) Phenanthrene	8.855	178	2399083	48.98	ppb	100
78) Anthracene	8.919	178	2468928	51.22	ppb	99
79) Carbazole	9.139	167	2398802	42.69	ppb	100
80) Di-n-butylphthalate	9.657	149	3349794	55.03	ppb	100
81) Fluoranthene	10.444	202	2712578	52.51	ppb	98
82) Octadecane	8.780	43	621815	40.20	ppb	99
84) Pyrene	10.759	202	2753993	51.93	ppb	99
86) Butylbenzylphthalate	11.808	149	1491175	59.97	ppb	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1542\
Data File : 2p37035.D
Acq On : 30 May 2014 11:40 am
Operator : harpreek
Sample : op75202-bsd
Misc : op75202,e2p1542,1000
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 30 14:21:31 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri May 30 09:21:22 2014
Response via : Initial Calibration

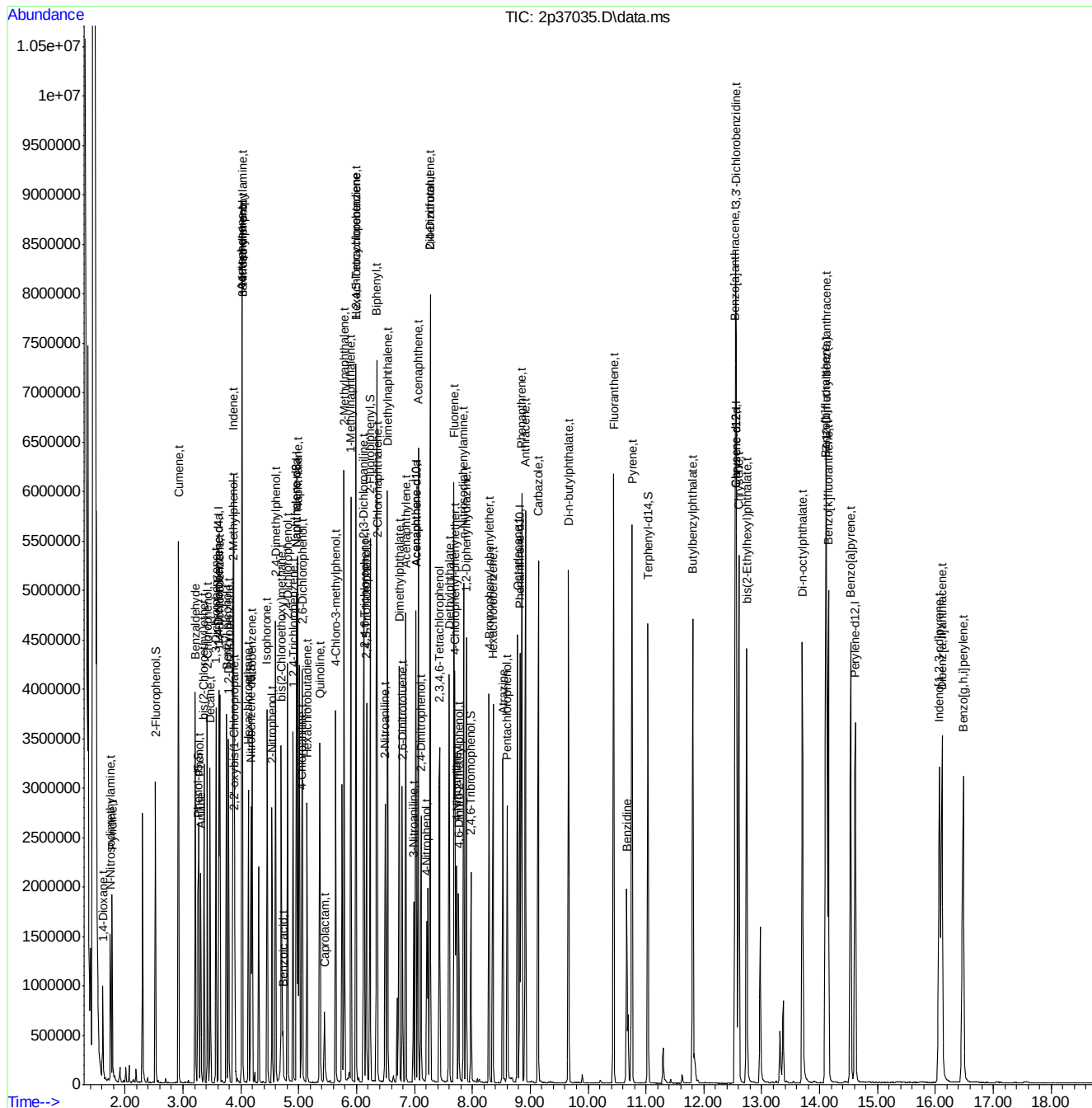
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
88) Benzo[a]anthracene	12.546	228	2316981	51.55	ppb	98
89) 3,3'-Dichlorobenzidine	12.551	252	777494	53.64	ppb	100
90) Chrysene	12.604	228	2132584	54.44	ppb	100
91) bis(2-Ethylhexyl)phtha...	12.738	149	1913211	57.49	ppb	99
93) Di-n-octylphthalate	13.701	149	3426787	48.33	ppb	99
94) Benzo[b]fluoranthene	14.107	252	2432859	53.07	ppb	98
95) Benzo[k]fluoranthene	14.150	252	2162895	51.70	ppb	99
96) Benzo[a]pyrene	14.541	252	2075054	53.43	ppb	99
97) Indeno[1,2,3-cd]pyrene	16.070	276	2073658	44.63	ppb	93
99) Dibenz[a,h]anthracene	16.113	278	2060839	55.59	ppb	100
100) 7,12-Dimethylbenz(a)an...	14.118	256	977749	41.40	ppb	99
101) Benzo[g,h,i]perylene	16.482	276	2112507	55.84	ppb	99
103) Benzaldehyde	3.218	105	762544	50.62	ppb	98
105) Atrazine	8.529	215	204385	52.87	ppb	96
106) 1,2,4,5-Tetrachloroben...	5.988	216	513886	33.52	ppb	99
108) Benzidine	10.668	184	902711	33.58	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1542\
Data File : 2p37035.D
Acq On : 30 May 2014 11:40 am
Operator : harpreek
Sample : op75202-bsd
Misc : op75202,e2p1542,1000
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 30 14:21:31 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri May 30 09:21:22 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p319\
 Data File : 6p7537.D
 Acq On : 30 May 2014 9:52 am
 Operator : andrews1
 Sample : op75185-ms
 Misc : op75185,e6p319,30.4
 ALS Vial : 27 Sample Multiplier: 1

Quant Time: May 31 08:46:09 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Fri May 30 14:18:06 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.095	152	954515	40.00	ppb	0.00
24) Naphthalene-d8	6.181	136	3588825	40.00	ppb	0.00
47) Acenaphthene-d10	8.154	164	2034040	40.00	ppb	0.00
69) Phenanthrene-d10	10.294	188	3198990	40.00	ppb	0.01
83) Chrysene-d12	14.509	240	3560307	40.00	ppb	0.05
92) Perylene-d12	16.632	264	3341068	40.00	ppb	0.06
102) 1,4-Dichlorobenzene-d4a	5.095	152	954515	40.00	ppb	0.00
104) Phenanthrene-d10a	10.294	188	3198990	40.00	ppb	0.01
106) Chrysene-d12a	14.509	240	3560307	40.00	ppb	0.05
108) Acenaphthene-d10a	8.154	164	2034040	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.859	112	1245299	36.21	ppb	0.01
Spiked Amount 50.000			Recovery	=	72.42%	
8) Phenol-d5	4.860	99	1678623	34.14	ppb	0.01
Spiked Amount 50.000			Recovery	=	68.28%	
25) Nitrobenzene-d5	5.566	82	1643864	34.69	ppb	0.00
Spiked Amount 50.000			Recovery	=	69.38%	
51) 2-Fluorobiphenyl	7.325	172	2478349	41.47	ppb	0.00
Spiked Amount 50.000			Recovery	=	82.94%	
73) 2,4,6-Tribromophenol	9.272	330	386075	46.64	ppb	0.00
Spiked Amount 50.000			Recovery	=	93.28%	
86) Terphenyl-d14	12.867	244	2501683	36.18	ppb	0.02
Spiked Amount 50.000			Recovery	=	72.36%	
Target Compounds						
2) 1,4-Dioxane	1.602	88	297469	17.99	ppb	Qvalue 93
3) Pyridine	1.897	79	992689	22.95	ppb	80
4) N-Nitrosodimethylamine	1.870	74	779277	30.70	ppb	62
6) Indene	5.309	116	2359224	36.93	ppb	99
7) Cumene	4.346	105	3098081	30.57	ppb	99
9) Phenol	4.870	94	1897255	33.39	ppb	94
10) Aniline	4.817	93	1146043	18.28	ppb	94
11) bis(2-Chloroethyl)ether	4.886	93	1435795	36.02	ppb	97
12) 2-Chlorophenol	4.929	128	1266401	38.89	ppb	93
13) Decane	4.988	43	827180	34.41	ppb	80
14) 1,3-Dichlorobenzene	5.042	146	1333742	38.59	ppb	97
15) 1,4-Dichlorobenzene	5.106	146	1382336	39.78	ppb	98
16) Benzyl alcohol	5.245	108	943686	39.40	ppb	87
17) 1,2-Dichlorobenzene	5.234	146	1328105	40.90	ppb	99
18) Acetophenone	5.443	105	2036766	34.01	ppb	90
19) 2-Methylphenol	5.368	108	1253658	37.65	ppb	97
20) 2,2'-oxybis(1-Chloropr...	5.346	121	428944	37.56	ppb	# 78
21) 3&4-Methylphenol	5.496	108	1338134	37.39	ppb	98
22) n-Nitroso-di-n-propyla...	5.459	70	1137029	35.34	ppb	88
23) Hexachloroethane	5.507	201	452862	38.75	ppb	91
26) Nitrobenzene	5.582	77	1763575	36.19	ppb	93
27) Quinoline	6.528	129	2278496	36.26	ppb	99
28) Isophorone	5.785	82	2897491	35.91	ppb	93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p319\
 Data File : 6p7537.D
 Acq On : 30 May 2014 9:52 am
 Operator : andrews1
 Sample : op75185-ms
 Misc : op75185,e6p319,30.4
 ALS Vial : 27 Sample Multiplier: 1

Quant Time: May 31 08:46:09 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Fri May 30 14:18:06 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
29) 2-Nitrophenol	5.849	139	607995	39.06	ppb	96
30) 2,4-Dimethylphenol	5.929	107	1547075	42.11	ppb	97
31) Benzoic Acid	6.058	105	297304	15.91	ppb	# 15
32) bis(2-Chloroethoxy)met...	5.988	93	1726834	38.82	ppb	99
33) 2,4-Dichlorophenol	6.090	162	953751	42.61	ppb	98
34) 2,6-Dichlorophenol	6.282	162	966166	42.46	ppb	98
36) 1,2,4-Trichlorobenzene	6.138	180	1111058	42.77	ppb	97
38) Naphthalene	6.202	128	4022134	44.22	ppb	99
39) 4-Chloroaniline	6.277	127	698374	18.23	ppb	96
40) 2,3-Dichloroaniline	7.229	161	1036365	33.38	ppb	95
41) Caprolactam	6.641	55	436648	33.87	ppb	91
42) Hexachlorobutadiene	6.331	225	712052	48.55	ppb	96
43) 4-Chloro-3-methylphenol	6.807	107	1274448	37.43	ppb	98
44) 2-Methylnaphthalene	6.903	141	2060235	40.29	ppb	97
45) 1-Methylnaphthalene	7.010	141	2001465	38.14	ppb	97
46) Dimethylnaphthalene	7.630	156	2144935	37.85	ppb	98
48) Hexachlorocyclopentadiene	7.085	237	520993	34.54	ppb	97
49) 2,4,6-Trichlorophenol	7.245	196	675883	42.79	ppb	97
50) 2,4,5-Trichlorophenol	7.309	196	709058	42.66	ppb	95
52) 2-Chloronaphthalene	7.454	162	2239171	41.87	ppb	96
53) Biphenyl	7.443	154	2849999	38.67	ppb	98
54) 2-Nitroaniline	7.609	65	888538	37.70	ppb	97
55) Dimethylphthalate	7.855	163	2689186	44.93	ppb	99
56) Acenaphthylene	7.973	152	7927520	91.09	ppb	99
57) 2,6-Dinitrotoluene	7.924	165	555532	40.46	ppb	100
58) 3-Nitroaniline	8.144	138	441061	28.37	ppb	92
59) Acenaphthene	8.197	153	2536890	46.16	ppb	99
60) 2,4-Dinitrophenol	8.310	184	89146	11.22	ppb	95
61) 4-Nitrophenol	8.475	109	479283	37.93	ppb	89
62) Dibenzofuran	8.433	168	3209914	42.66	ppb	98
63) 2,4-Dinitrotoluene	8.475	165	711284	37.60	ppb	97
64) 2,3,4,6-Tetrachlorophenol	8.641	232	537254	38.88	ppb	98
65) Diethylphthalate	8.828	149	2785101	43.84	ppb	98
66) Fluorene	8.914	166	3086565	49.60	ppb	99
67) 4-Chlorophenyl-phenyle...	8.941	204	1210412	44.32	ppb	99
68) 4-Nitroaniline	8.994	138	473157	31.21	ppb	87
70) 4,6-Dinitro-2-methylph...	9.069	198	96741	9.47	ppb	94
71) n-Nitrosodiphenylamine	9.123	169	1807930	45.76	ppb	99
72) 1,2-Diphenylhydrazine	9.165	77	3315009	36.21	ppb	93
74) 4-Bromophenyl-phenylether	9.647	248	715434	47.69	ppb	99
75) Hexachlorobenzene	9.732	284	754549	41.50	ppb	94
76) Pentachlorophenol	10.064	266	316386	32.34	ppb	98
77) Phenanthrene	10.331	178	13441378	156.79	ppb	91
78) Anthracene	10.412	178	6987776	81.39	ppb	99
79) Carbazole	10.700	167	3825996	45.43	ppb	100
80) Di-n-butylphthalate	11.342	149	4407986	43.79	ppb	99
81) Fluoranthene	12.193	202	26120459m	288.68	ppb	
82) Octadecane	10.294	57	1689551	42.13	ppb	87
84) Pyrene	12.540	202	29316967m	280.60	ppb	
87) Butylbenzylphthalate	13.722	149	2258049	45.50	ppb	91

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p319\
 Data File : 6p7537.D
 Acq On : 30 May 2014 9:52 am
 Operator : andrews1
 Sample : op75185-ms
 Misc : op75185,e6p319,30.4
 ALS Vial : 27 Sample Multiplier: 1

Quant Time: May 31 08:46:09 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Fri May 30 14:18:06 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
88) Benzo[a]anthracene	14.482	228	24933498m	263.31	ppb	
89) 3,3'-Dichlorobenzidine	14.514	252	1860919	57.84	ppb	97
90) Chrysene	14.541	228	23863989m	273.81	ppb	
91) bis(2-Ethylhexyl)phtha...	14.701	149	2886685	42.92	ppb	98
93) Di-n-octylphthalate	15.691	149	4278681	35.87	ppb	98
94) Benzo[b]fluoranthene	16.119	252	31678555m	317.38	ppb	
95) Benzo[k]fluoranthene	16.156	252	10162621m	110.54	ppb	
96) Benzo[a]pyrene	16.562	252	23177840m	270.16	ppb	
97) Indeno[1,2,3-cd]pyrene	17.958	276	21330168	241.20	ppb	91
99) Dibenz[a,h]anthracene	17.969	278	10119946	119.35	ppb	94
100) 7,12-Dimethylbenz(a)an...	16.092	256	1756723	29.89	ppb	93
101) Benzo[g,h,i]perylene	18.253	276	18187382	215.00	ppb	96
103) Benzaldehyde	4.699	105	1054694m	30.91	ppb	
105) Atrazine	9.989	215	331872	36.17	ppb	81
107) Benzidine	12.508	184	162264m	2.98	ppb	
109) 1,2,4,5-Tetrachloroben...	7.095	216	1082707	39.76	ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

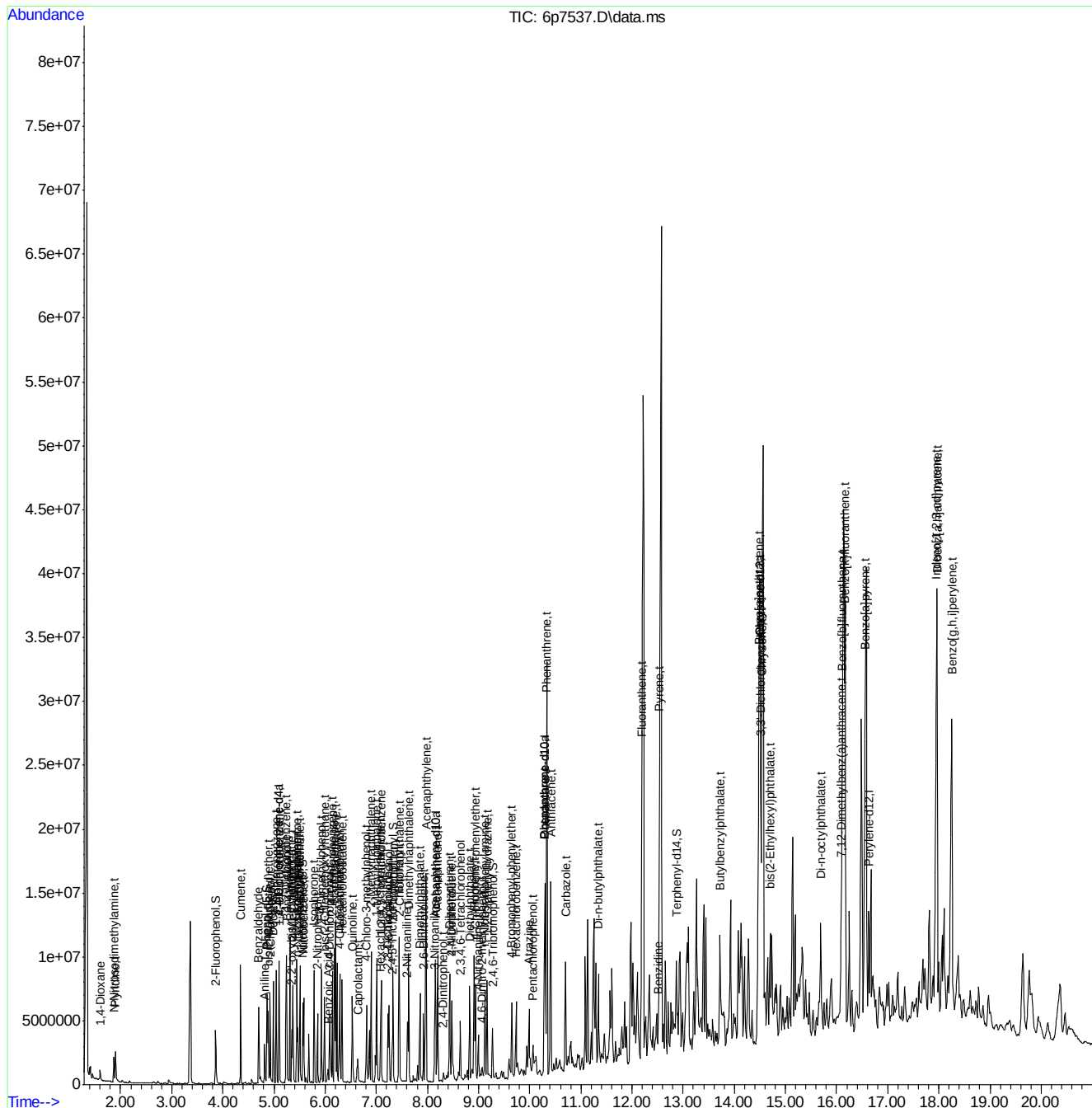
(QT Reviewed)

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Data Path   : C:\msdchem\1\DATA\e6p319\
Data File   : 6p7537.D
Acq On      : 30 May 2014    9:52 am
Operator    : andrews1
Sample      : op75185-ms
Misc        : op75185, e6p319, 30.4
ALS Vial    : 27      Sample Multiplier: 1

```

Quant Time: May 31 08:46:09 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Fri May 30 14:18:06 2014
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: OP75185-MS

Method: SW846 8270D

Lab FileID: 6P7537.D

Analyst approved: 05/31/14 08:50 Andrew Lee Smith

Injection Time: 05/30/14 09:52

Supervisor approved: 06/03/14 10:01 Cheng-Hwan Ao

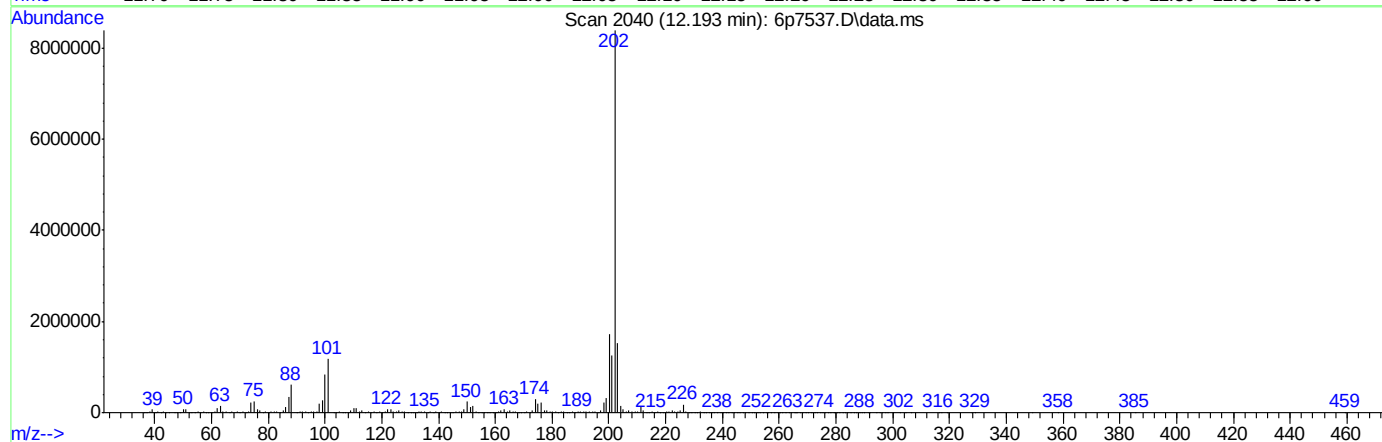
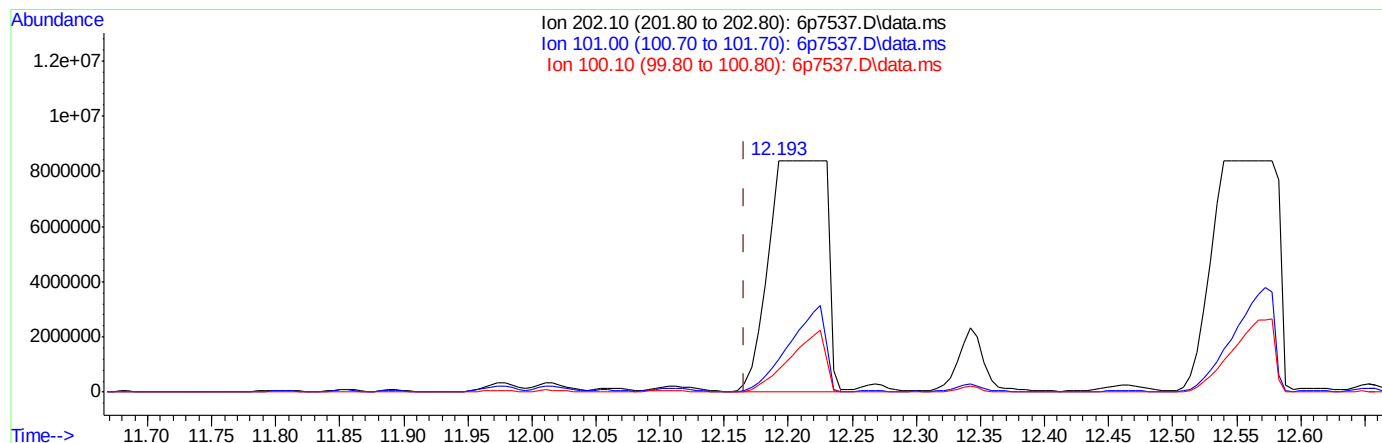
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzaldehyde	100-52-7		4.70	Poor instrument integration
Fluoranthene	206-44-0		12.19	Poor instrument integration
Benzidine	92-87-5		12.51	Poor instrument integration
Pyrene	129-00-0		12.54	Poor instrument integration
Benzo(a)anthracene	56-55-3		14.48	Poor instrument integration
Chrysene	218-01-9		14.54	Poor instrument integration
Benzo(b)fluoranthene	205-99-2		16.12	Overlapping peak
Benzo(k)fluoranthene	207-08-9		16.16	Overlapping peak
Benzo(a)pyrene	50-32-8		16.56	Poor instrument integration

9.4.1.1
9

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p319\
Data File : 6p7537.D
Acq On : 30 May 2014 9:52 am
Operator : andrews1
Sample : op75185-ms
Misc : op75185,e6p319,30.4
ALS Vial : 27 Sample Multiplier: 1

Quant Time: May 31 08:42:33 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Fri May 30 14:18:06 2014
Response via : Initial Calibration



TIC: 6p7537.D\data.ms

(81) Fluoranthene (t)

12.193min (+0.027) 288.68ppb m

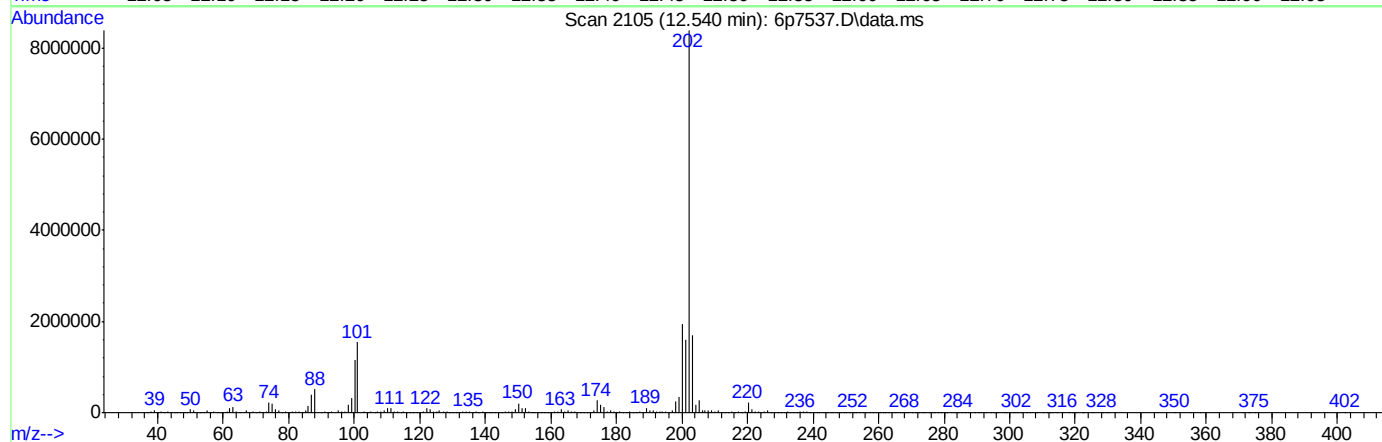
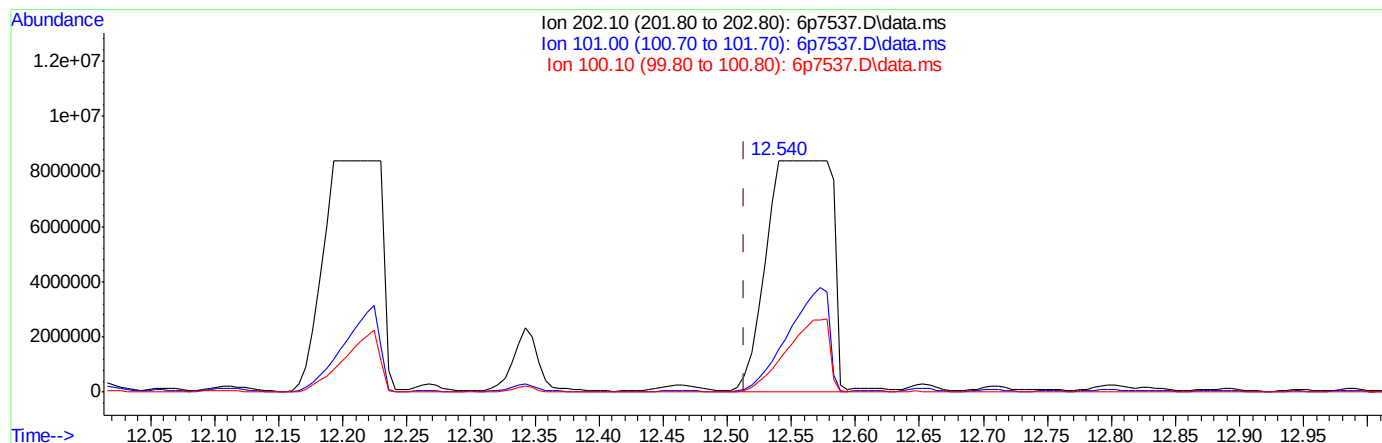
response 26120459

Ion	Exp%	Act%
202.10	100	100
101.00	15.60	14.02
100.10	11.60	9.94
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p319\
Data File : 6p7537.D
Acq On : 30 May 2014 9:52 am
Operator : andrews1
Sample : op75185-ms
Misc : op75185,e6p319,30.4
ALS Vial : 27 Sample Multiplier: 1

Quant Time: May 31 08:42:33 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Fri May 30 14:18:06 2014
Response via : Initial Calibration



(84) Pyrene (t)

12.540min (+0.027) 280.60ppb m

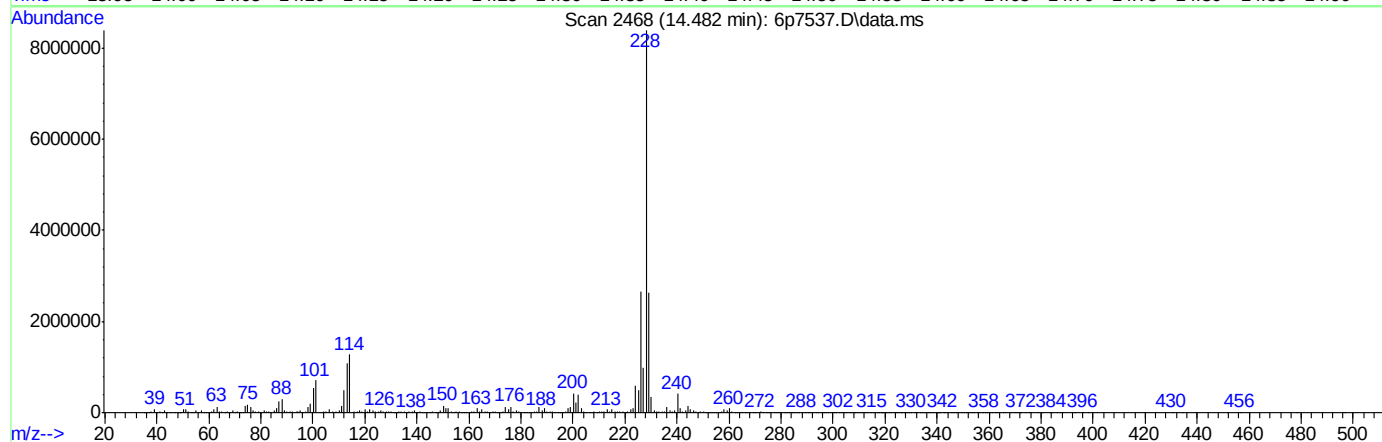
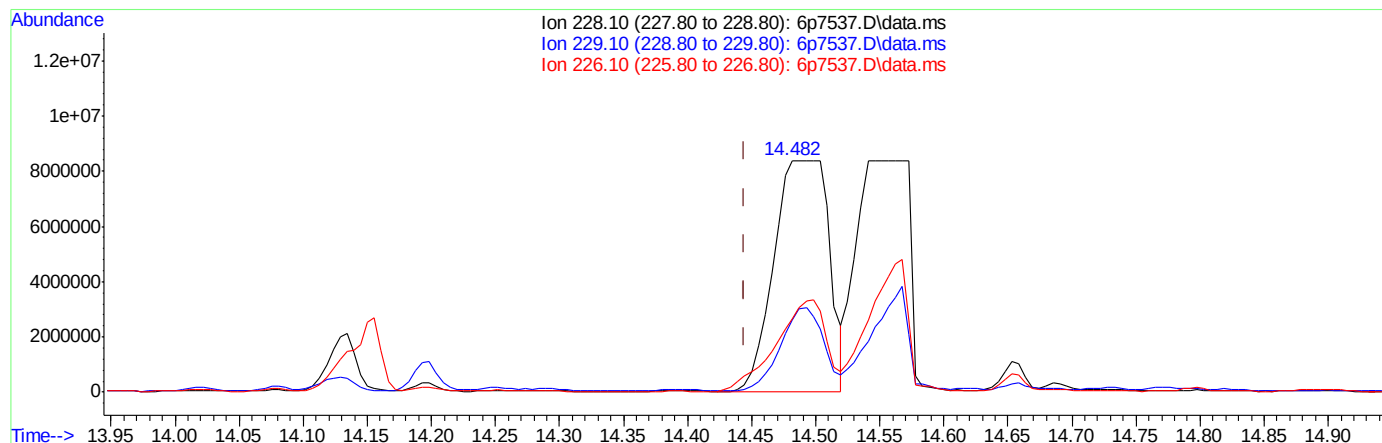
response 29316967

Ion	Exp%	Act%
202.10	100	100
101.00	18.70	18.43
100.10	14.40	13.89
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\6p319\
Data File : 6p7537.D
Acq On : 30 May 2014 9:52 am
Operator : andrews1
Sample : op75185-ms
Misc : op75185,e6p319,30.4
ALS Vial : 27 Sample Multiplier: 1

Quant Time: May 31 08:42:33 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Fri May 30 14:18:06 2014
Response via : Initial Calibration



(88) Benzo[a]anthracene (t)

14.482min (+0.037) 263.31ppb m

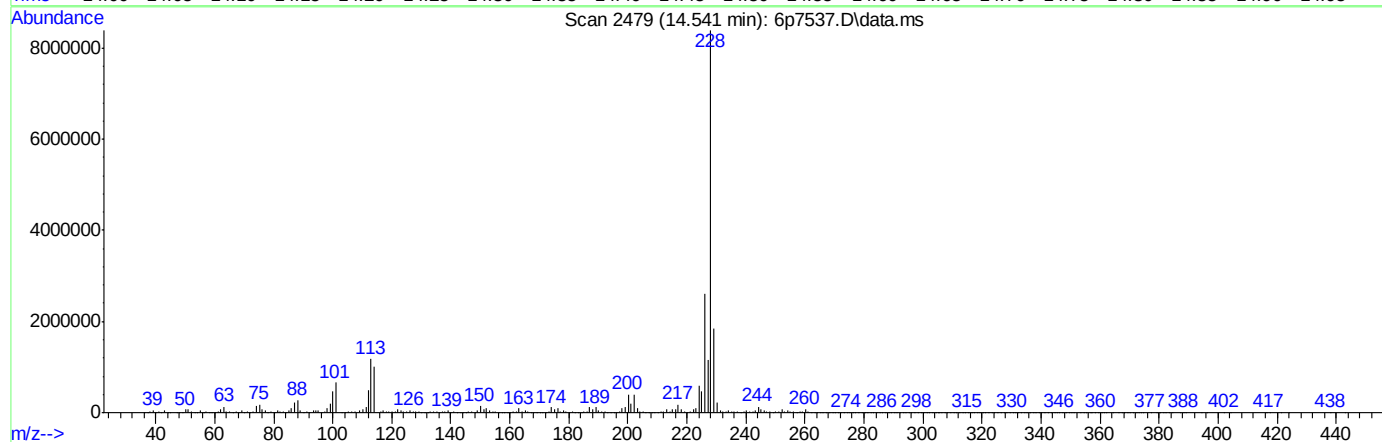
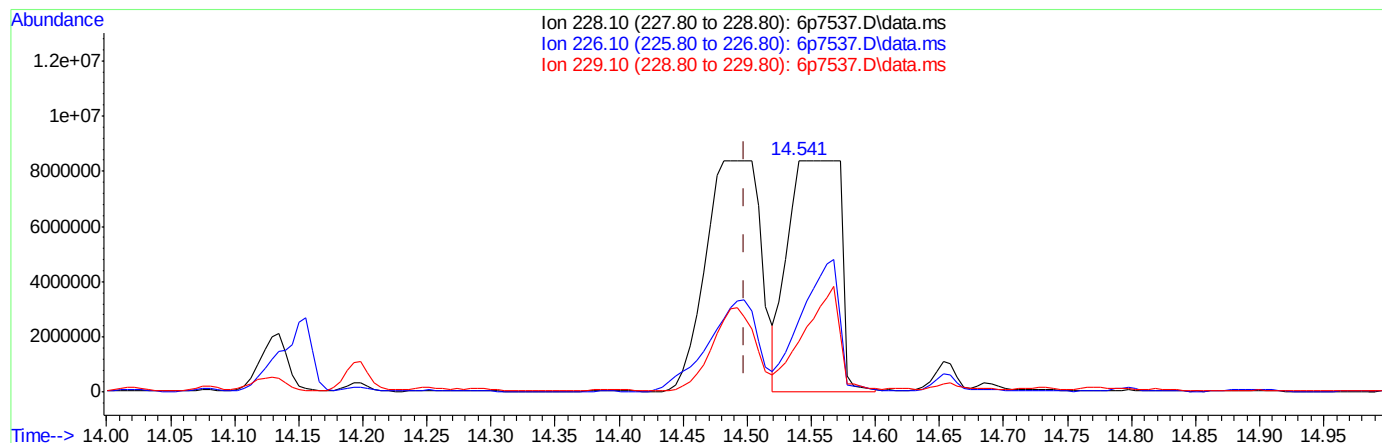
response 24933498

Ion	Exp%	Act%
228.10	100	100
229.10	19.20	31.25
226.10	25.90	31.83
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\6p319\
Data File : 6p7537.D
Acq On : 30 May 2014 9:52 am
Operator : andrews1
Sample : op75185-ms
Misc : op75185,e6p319,30.4
ALS Vial : 27 Sample Multiplier: 1

Quant Time: May 31 08:42:33 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
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QLast Update : Fri May 30 14:18:06 2014
Response via : Initial Calibration



(90) Chrysene (t)

14.541min (+0.043) 273.81ppb m

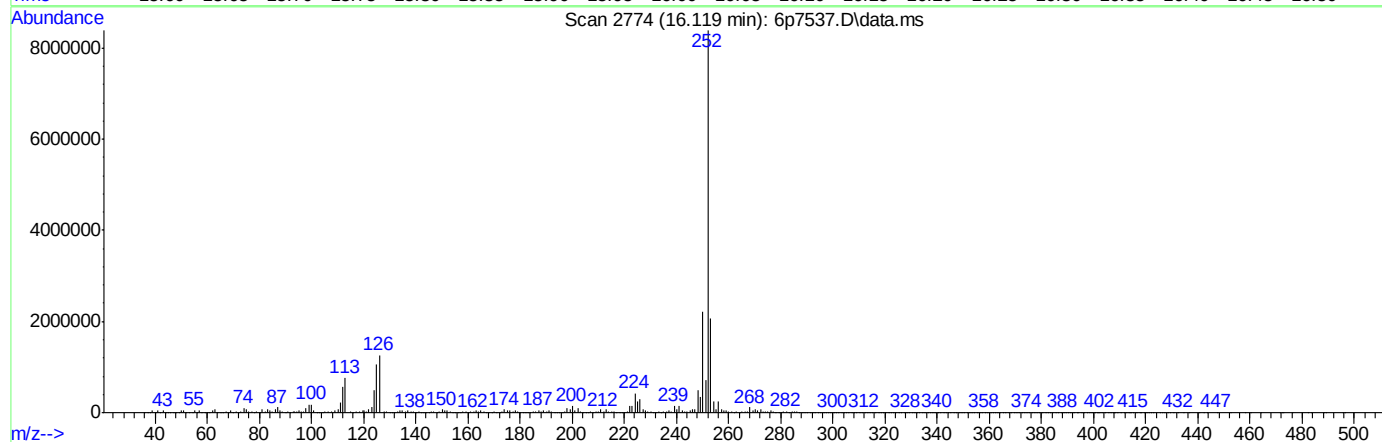
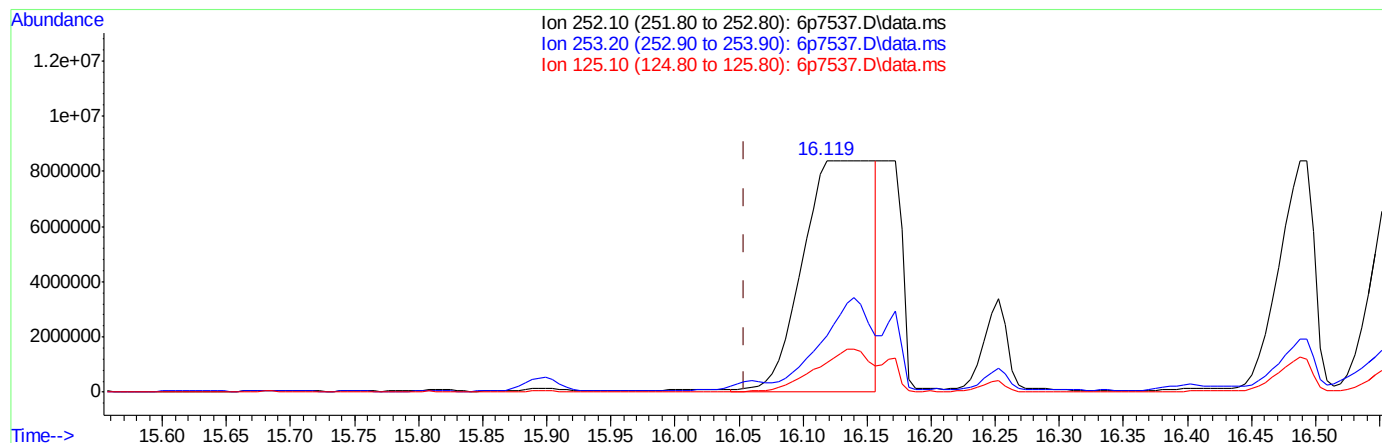
response 23863989

Ion	Exp%	Act%
228.10	100	100
226.10	28.50	31.23
229.10	18.50	22.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\6p319\
Data File : 6p7537.D
Acq On : 30 May 2014 9:52 am
Operator : andrews1
Sample : op75185-ms
Misc : op75185,e6p319,30.4
ALS Vial : 27 Sample Multiplier: 1

Quant Time: May 31 08:42:33 2014
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QLast Update : Fri May 30 14:18:06 2014
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(94) Benzo[b]fluoranthene (t)

16.119min (+0.064) 317.38ppb m

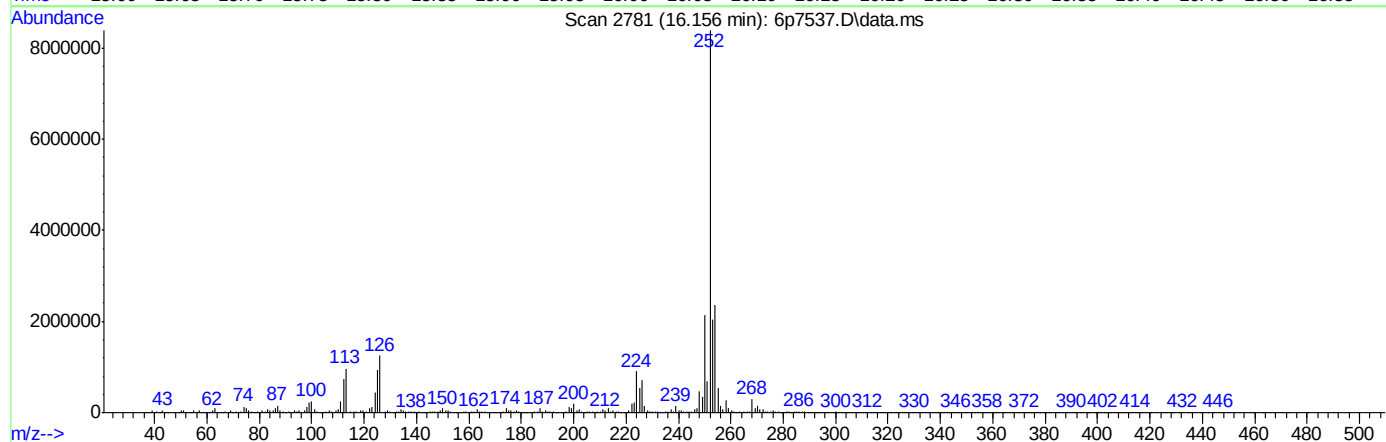
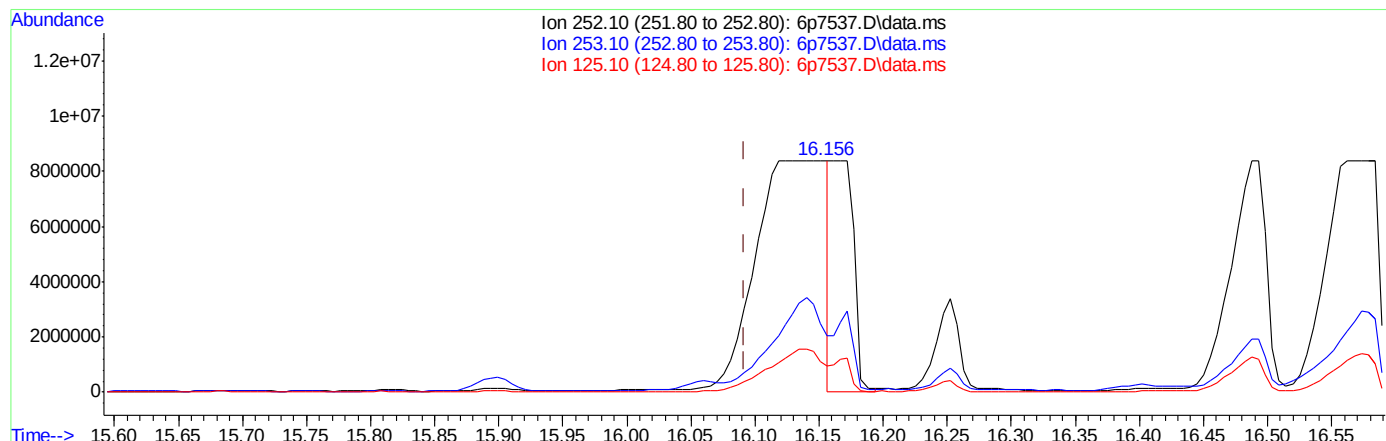
response 31678555

Ion	Exp%	Act%
252.10	100	100
253.20	24.80	24.53
125.10	14.90	12.71
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p319\
Data File : 6p7537.D
Acq On : 30 May 2014 9:52 am
Operator : andrews1
Sample : op75185-ms
Misc : op75185,e6p319,30.4
ALS Vial : 27 Sample Multiplier: 1

Quant Time: May 31 08:42:33 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Fri May 30 14:18:06 2014
Response via : Initial Calibration



(95) Benzo[k]fluoranthene (t)

16.156min (+0.064) 110.54ppb m

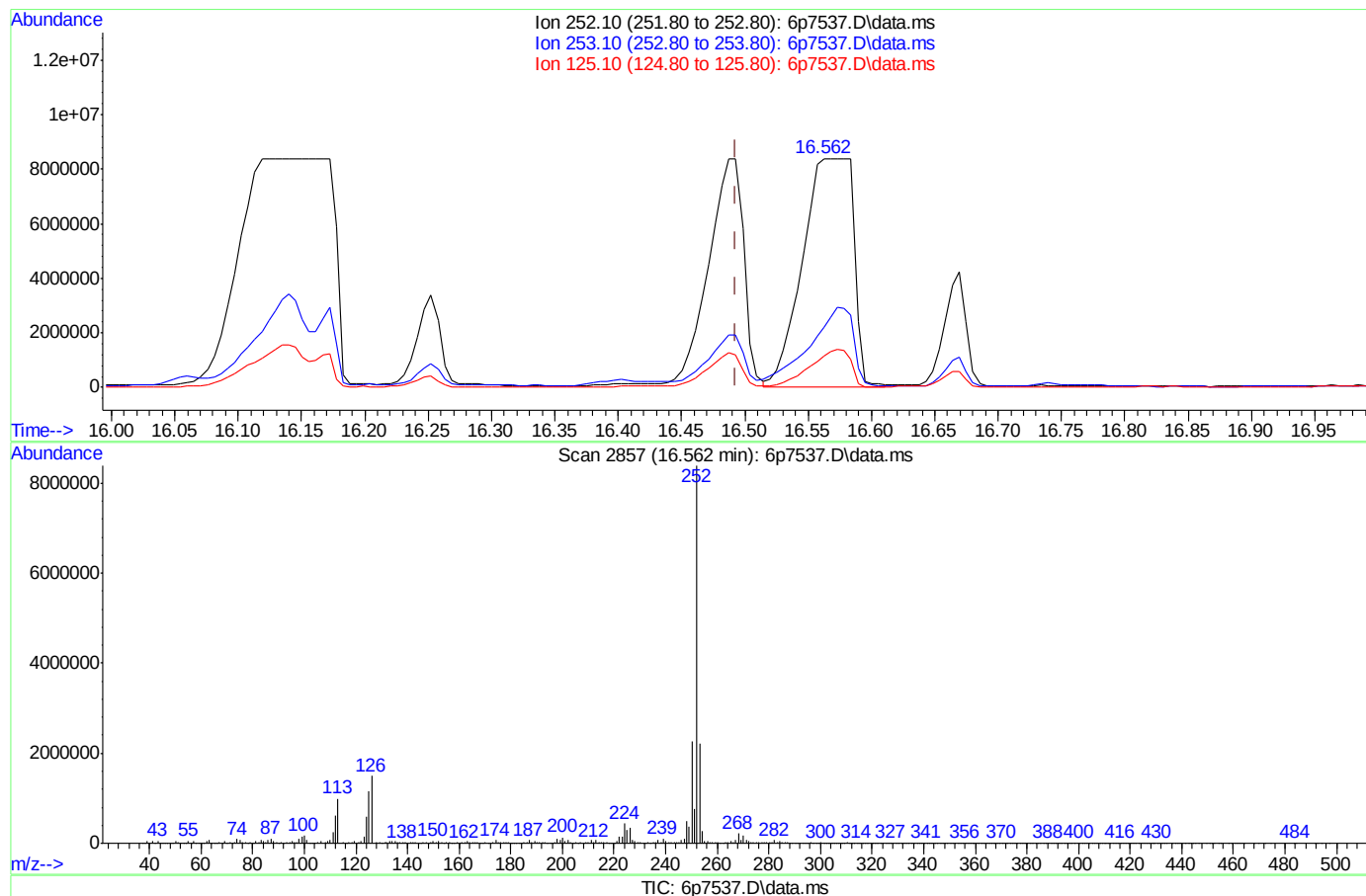
response 10162621

Ion	Exp%	Act%
252.10	100	100
253.10	21.10	24.22
125.10	10.90	11.21
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p319\
Data File : 6p7537.D
Acq On : 30 May 2014 9:52 am
Operator : andrews1
Sample : op75185-ms
Misc : op75185,e6p319,30.4
ALS Vial : 27 Sample Multiplier: 1

Quant Time: May 31 08:42:33 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Fri May 30 14:18:06 2014
Response via : Initial Calibration



(96) Benzo[a]pyrene (t)

16.562min (+0.069) 270.16ppb m

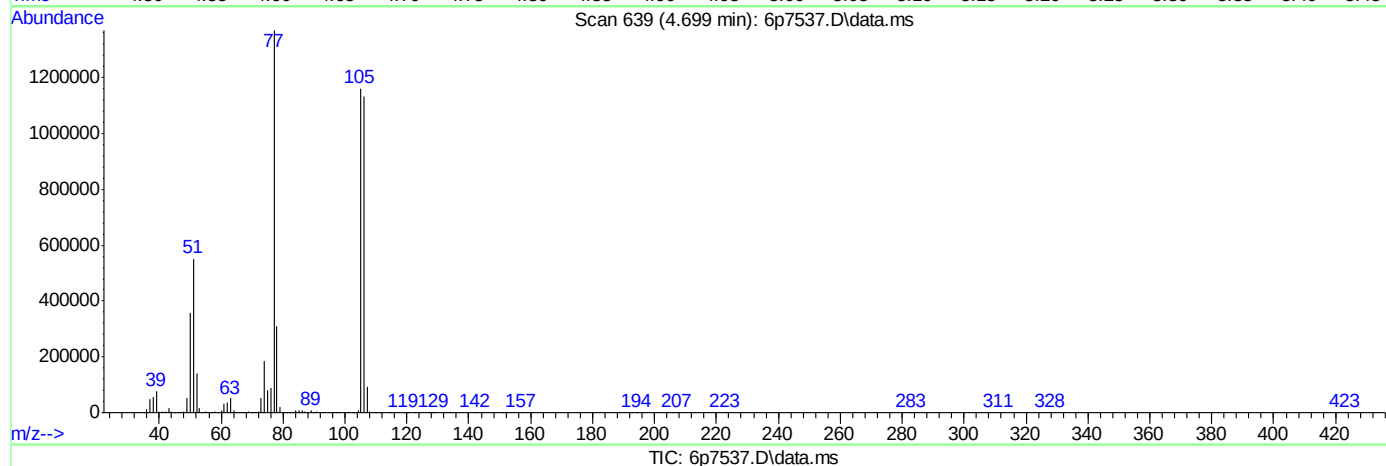
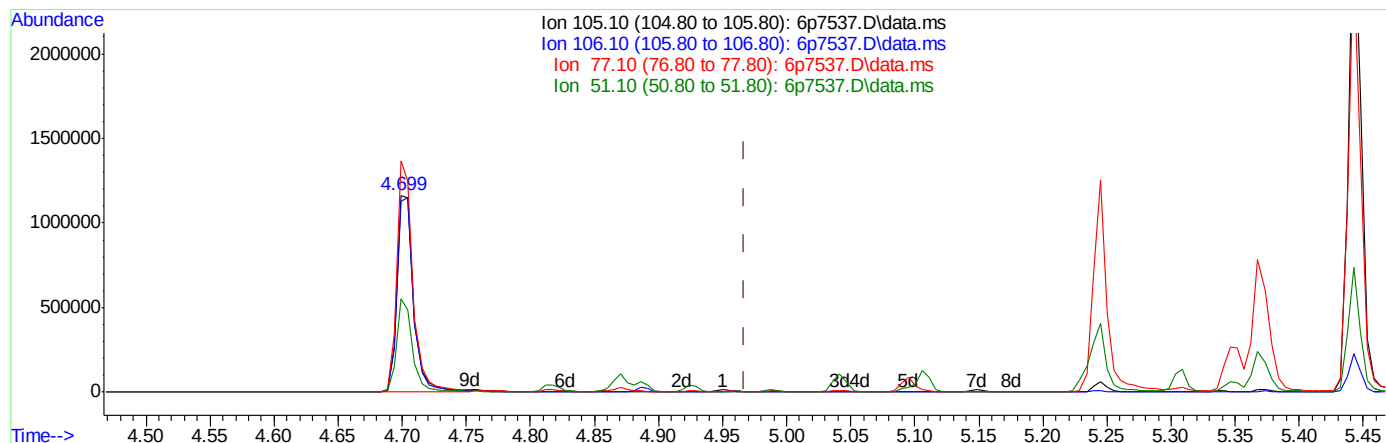
response 23177840

Ion	Exp%	Act%
252.10	100	100
253.10	22.00	26.28
125.10	12.90	13.76
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\6p319\
Data File : 6p7537.D
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Operator : andrews1
Sample : op75185-ms
Misc : op75185,e6p319,30.4
ALS Vial : 27 Sample Multiplier: 1

Quant Time: May 31 08:42:33 2014
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Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Fri May 30 14:18:06 2014
Response via : Initial Calibration



(103) Benzaldehyde

4.699min (-0.268) 30.91ppb m

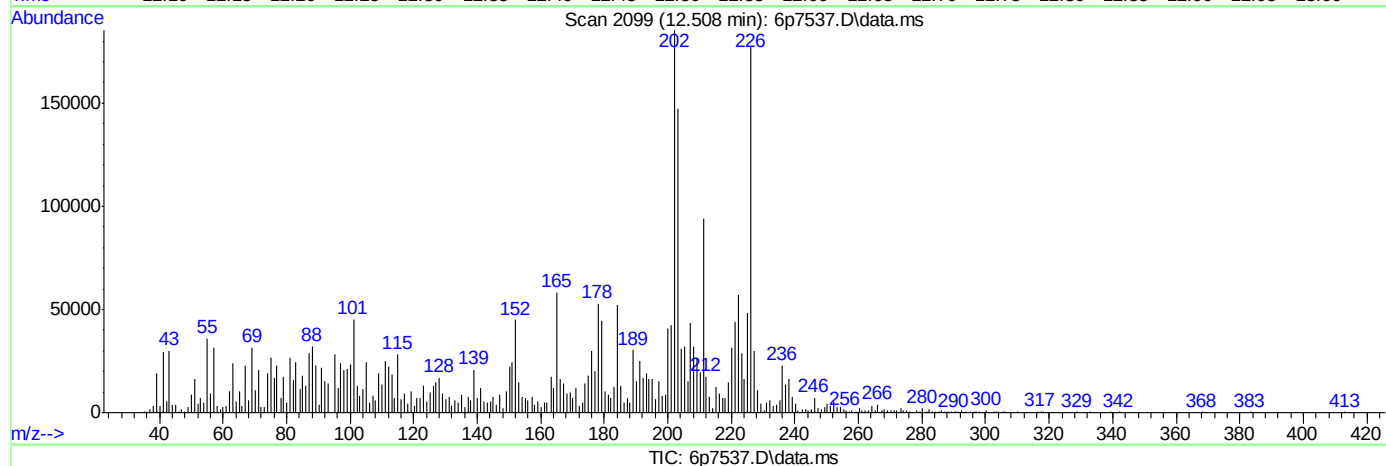
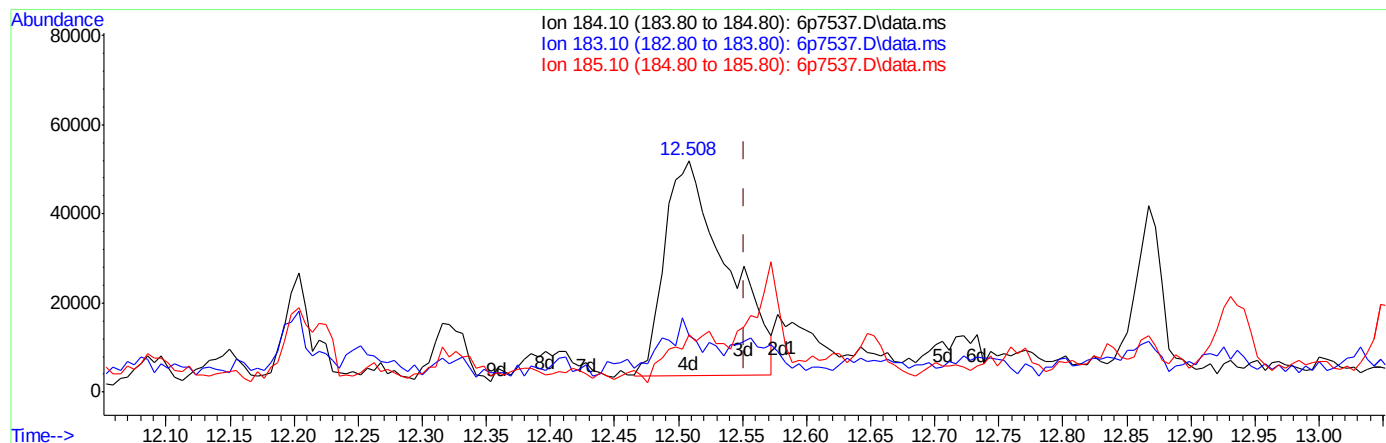
response 1054694

Ion	Exp%	Act%
105.10	100	100
106.10	104.70	97.31
77.10	105.70	117.79
51.10	39.50	47.40

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p319\
Data File : 6p7537.D
Acq On : 30 May 2014 9:52 am
Operator : andrews1
Sample : op75185-ms
Misc : op75185,e6p319,30.4
ALS Vial : 27 Sample Multiplier: 1

Quant Time: May 31 08:44:26 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Fri May 30 14:18:06 2014
Response via : Initial Calibration



(107) Benzidine

12.508min (-0.043) 2.98ppb m

response 162264

Ion	Exp%	Act%
184.10	100	100
183.10	10.40	24.32
185.10	14.60	24.82
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p323\
 Data File : 6p7644.D
 Acq On : 2 Jun 2014 4:52 pm
 Operator : ashleyv
 Sample : op75185-msd
 Misc : op75185,e6p323,30.8
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 03 12:37:44 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Tue Jun 03 12:08:54 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.052	152	1375195	40.00	ppb	0.00
24) Naphthalene-d8	6.133	136	5189024	40.00	ppb	0.00
47) Acenaphthene-d10	8.096	164	2937144	40.00	ppb	-0.01
69) Phenanthrene-d10	10.224	188	4637285	40.00	ppb	-0.01
83) Chrysene-d12	14.418	240	4702841	40.00	ppb	0.00
92) Perylene-d12	16.536	264	4026657	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	5.052	152	1375195	40.00	ppb	0.00
104) Phenanthrene-d10a	10.224	188	4637285	40.00	ppb	-0.01
106) Chrysene-d12a	14.418	240	4702841	40.00	ppb	0.00
108) Acenaphthene-d10a	8.096	164	2937144	40.00	ppb	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	3.811	112	1793144	36.19	ppb	0.00
Spiked Amount 50.000			Recovery	=	72.38%	
8) Phenol-d5	4.817	99	2560736	36.15	ppb	0.00
Spiked Amount 50.000			Recovery	=	72.30%	
25) Nitrobenzene-d5	5.523	82	2588076	37.77	ppb	0.00
Spiked Amount 50.000			Recovery	=	75.54%	
51) 2-Fluorobiphenyl	7.277	172	3575479	41.43	ppb	0.00
Spiked Amount 50.000			Recovery	=	82.86%	
73) 2,4,6-Tribromophenol	9.208	330	512274	42.69	ppb	-0.01
Spiked Amount 50.000			Recovery	=	85.38%	
86) Terphenyl-d14	12.792	244	3344620	36.62	ppb	0.00
Spiked Amount 50.000			Recovery	=	73.24%	
Target Compounds						
						Qvalue
2) 1,4-Dioxane	1.560	88	419140	17.60	ppb	94
3) Pyridine	1.848	79	1529004	24.53	ppb	86
4) N-Nitrosodimethylamine	1.822	74	1173196	32.08	ppb	69
6) Indene	5.266	116	3203974	34.81	ppb	99
7) Cumene	4.303	105	4364503	29.89	ppb	98
9) Phenol	4.828	94	2837175	34.66	ppb	91
10) Aniline	4.774	93	1899941	21.03	ppb	91
11) bis(2-Chloroethyl)ether	4.849	93	2175329	37.88	ppb	98
12) 2-Chlorophenol	4.886	128	1737171	37.03	ppb	99
13) Decane	4.945	43	1142009	32.97	ppb	82
14) 1,3-Dichlorobenzene	4.999	146	1799063	36.13	ppb	100
15) 1,4-Dichlorobenzene	5.068	146	1848496	36.93	ppb	99
16) Benzyl alcohol	5.202	108	1390525	40.30	ppb	97
17) 1,2-Dichlorobenzene	5.191	146	1788944	38.24	ppb	97
18) Acetophenone	5.405	105	2988160	34.63	ppb	88
19) 2-Methylphenol	5.330	108	1860843	38.78	ppb	98
20) 2,2'-oxybis(1-Chloropr...	5.309	121	633008	38.47	ppb	# 74
21) 3&4-Methylphenol	5.453	108	1970342	38.22	ppb	98
22) n-Nitroso-di-n-propyla...	5.421	70	1814044	39.14	ppb	92
23) Hexachloroethane	5.464	201	662786	39.36	ppb	99
26) Nitrobenzene	5.539	77	2826177	40.12	ppb	98
27) Quinoline	6.480	129	3351549	36.89	ppb	100
28) Isophorone	5.742	82	4546872	38.97	ppb	94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p323\
 Data File : 6p7644.D
 Acq On : 2 Jun 2014 4:52 pm
 Operator : ashleyv
 Sample : op75185-msd
 Misc : op75185,e6p323,30.8
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 03 12:37:44 2014

Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M

Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um

QLast Update : Tue Jun 03 12:08:54 2014

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
29) 2-Nitrophenol	5.806	139	877787	39.01	ppb	90
30) 2,4-Dimethylphenol	5.881	107	2267456	42.69	ppb	98
31) Benzoic Acid	6.063	105	318026	11.77	ppb	# 39
32) bis(2-Chloroethoxy)met...	5.945	93	2663313	41.40	ppb	100
33) 2,4-Dichlorophenol	6.042	162	1348353	41.66	ppb	99
34) 2,6-Dichlorophenol	6.234	162	1366073	41.52	ppb	98
36) 1,2,4-Trichlorobenzene	6.090	180	1538850	40.97	ppb	95
38) Naphthalene	6.154	128	5612740	42.68	ppb	100
39) 4-Chloroaniline	6.229	127	1315240	23.75	ppb	96
40) 2,3-Dichloroaniline	7.176	161	1588076	35.38	ppb	97
41) Caprolactam	6.598	55	711322	38.17	ppb	91
42) Hexachlorobutadiene	6.282	225	947516	44.68	ppb	98
43) 4-Chloro-3-methylphenol	6.758	107	1932488	39.25	ppb	98
44) 2-Methylnaphthalene	6.849	141	2882005	38.98	ppb	98
45) 1-Methylnaphthalene	6.956	141	2876293	37.91	ppb	97
46) Dimethylnaphthalene	7.577	156	3060483	37.35	ppb	97
48) Hexachlorocyclopentadiene	7.031	237	982962	45.13	ppb	98
49) 2,4,6-Trichlorophenol	7.197	196	939785	41.21	ppb	98
50) 2,4,5-Trichlorophenol	7.256	196	987160	41.13	ppb	99
52) 2-Chloronaphthalene	7.406	162	3273655	42.39	ppb	98
53) Biphenyl	7.390	154	4144676	38.95	ppb	99
54) 2-Nitroaniline	7.555	65	1491076	43.82	ppb	93
55) Dimethylphthalate	7.801	163	3915285	45.30	ppb	98
56) Acenaphthylene	7.914	152	7655339	60.92	ppb	99
57) 2,6-Dinitrotoluene	7.876	165	842880	42.51	ppb	97
58) 3-Nitroaniline	8.090	138	716310	31.91	ppb	91
59) Acenaphthene	8.138	153	3632693	45.77	ppb	100
60) 2,4-Dinitrophenol	8.256	184	498317	43.42	ppb	86
61) 4-Nitrophenol	8.427	109	717164	39.31	ppb	87
62) Dibenzofuran	8.379	168	4574085	42.10	ppb	99
63) 2,4-Dinitrotoluene	8.422	165	1152457	42.19	ppb	94
64) 2,3,4,6-Tetrachlorophenol	8.582	232	722147	36.19	ppb	93
65) Diethylphthalate	8.770	149	4111291	44.82	ppb	99
66) Fluorene	8.855	166	4174035	46.45	ppb	99
67) 4-Chlorophenyl-phenyle...	8.882	204	1731524	43.90	ppb	96
68) 4-Nitroaniline	8.941	138	724283	33.09	ppb	84
70) 4,6-Dinitro-2-methylph...	9.010	198	428850	28.96	ppb	95
71) n-Nitrosodiphenylamine	9.064	169	2629862	45.92	ppb	98
72) 1,2-Diphenylhydrazine	9.107	77	5650821	42.58	ppb	100
74) 4-Bromophenyl-phenylether	9.588	248	977477	44.95	ppb	95
75) Hexachlorobenzene	9.668	284	1043276	39.58	ppb	90
76) Pentachlorophenol	10.000	266	395425	27.88	ppb	99
77) Phenanthrene	10.262	178	11790819	94.88	ppb	93
78) Anthracene	10.342	178	7858484	63.15	ppb	99
79) Carbazole	10.631	167	5174970	42.39	ppb	99
80) Di-n-butylphthalate	11.273	149	6555913	44.93	ppb	98
81) Fluoranthene	12.118	202	17959714m	136.93	ppb	
82) Octadecane	10.230	57	2506715	43.12	ppb	88
84) Pyrene	12.460	202	19667427m	142.51	ppb	
87) Butylbenzylphthalate	13.648	149	4277249	65.25	ppb	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p323\
Data File : 6p7644.D
Acq On : 2 Jun 2014 4:52 pm
Operator : ashleyv
Sample : op75185-msd
Misc : op75185,e6p323,30.8
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 03 12:37:44 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Tue Jun 03 12:08:54 2014
Response via : Initial Calibration

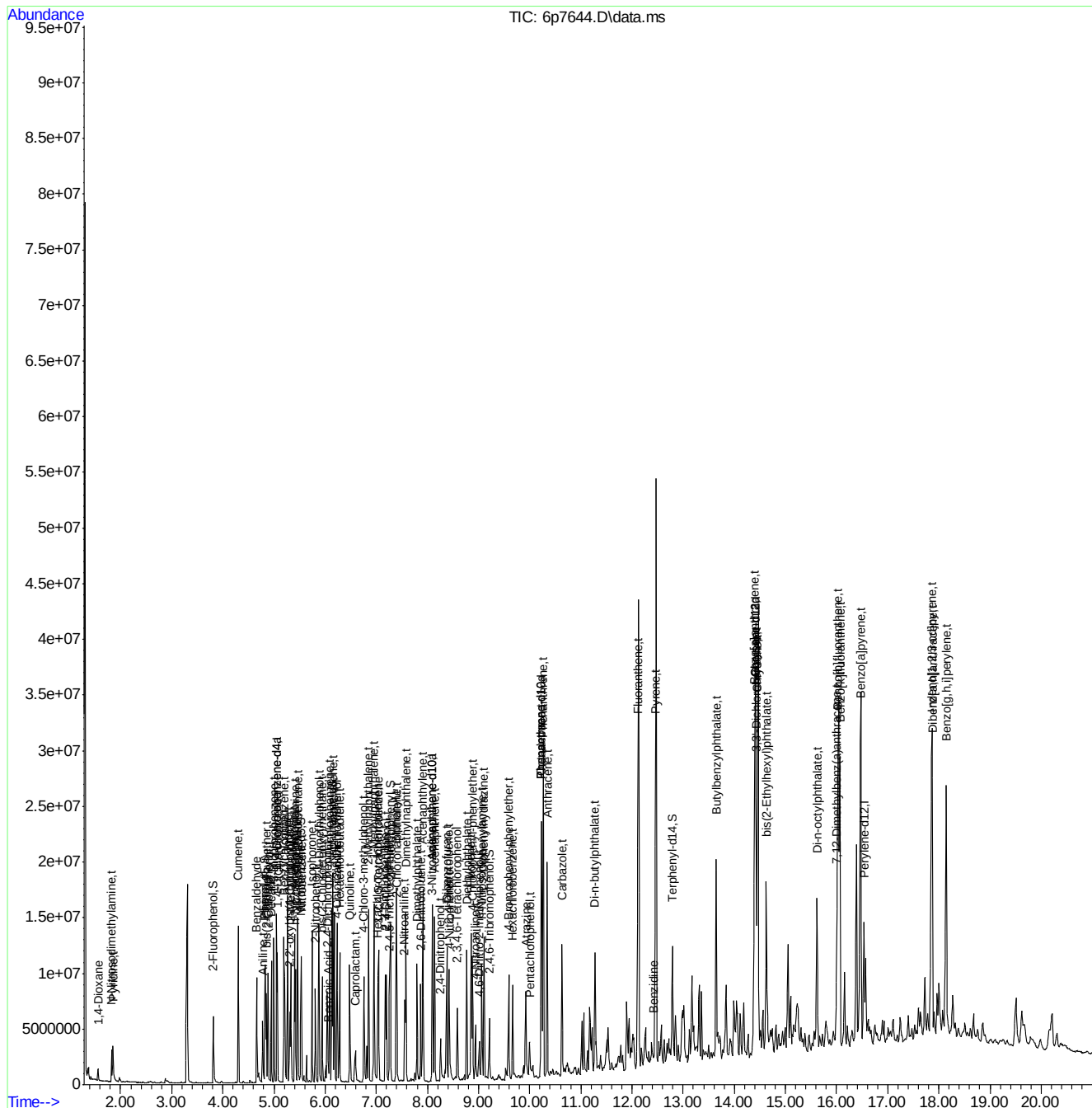
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
88) Benzo[a]anthracene	14.402	228	18279675	146.14	ppb	92
89) 3,3'-Dichlorobenzidine	14.423	252	2682583	63.12	ppb	98
90) Chrysene	14.455	228	16443522m	142.83	ppb	
91) bis(2-Ethylhexyl)phtha...	14.626	149	5096322	57.37	ppb	95
93) Di-n-octylphthalate	15.616	149	7892442	54.90	ppb	97
94) Benzo[b]fluoranthene	16.028	252	22600492m	187.88	ppb	
95) Benzo[k]fluoranthene	16.065	252	8890293	80.23	ppb	94
96) Benzo[a]pyrene	16.466	252	15806205	152.87	ppb	96
97) Indeno[1,2,3-cd]pyrene	17.857	276	15364704	144.16	ppb	90
99) Dibenz[a,h]anthracene	17.873	278	8479969	82.98	ppb	96
100) 7,12-Dimethylbenz(a)an...	16.006	256	1743748	24.56	ppb	97
101) Benzo[g,h,i]perylene	18.146	276	13786418	135.22	ppb	99
103) Benzaldehyde	4.662	105	1484299	30.20	ppb	91
105) Atrazine	9.925	215	463884	34.88	ppb #	80
107) Benzidine	12.423	184	109863	1.53	ppb	92
109) 1,2,4,5-Tetrachloroben...	7.047	216	1522633	38.72	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p323\
Data File : 6p7644.D
Acq On : 2 Jun 2014 4:52 pm
Operator : ashleyv
Sample : op75185-msd
Misc : op75185,e6p323,30.8
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 03 12:37:44 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Tue Jun 03 12:08:54 2014
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: OP75185-MSD

Method: SW846 8270D

Lab FileID: 6P7644.D

Analyst approved: 06/03/14 12:38 Ashley Royal

Injection Time: 06/02/14 16:52

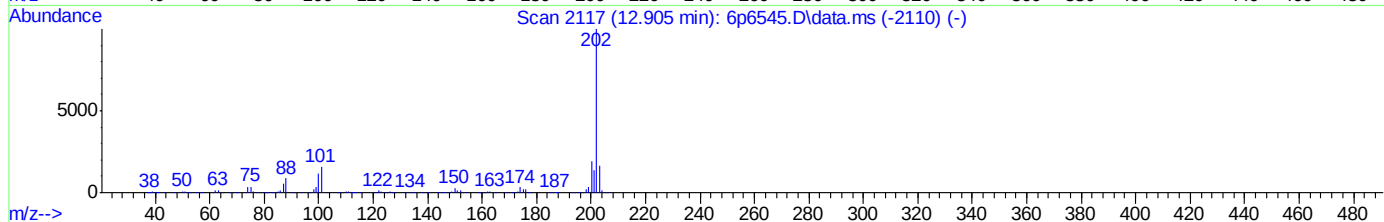
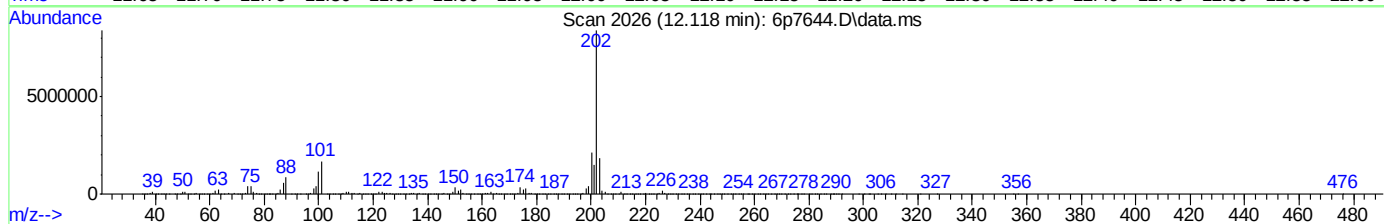
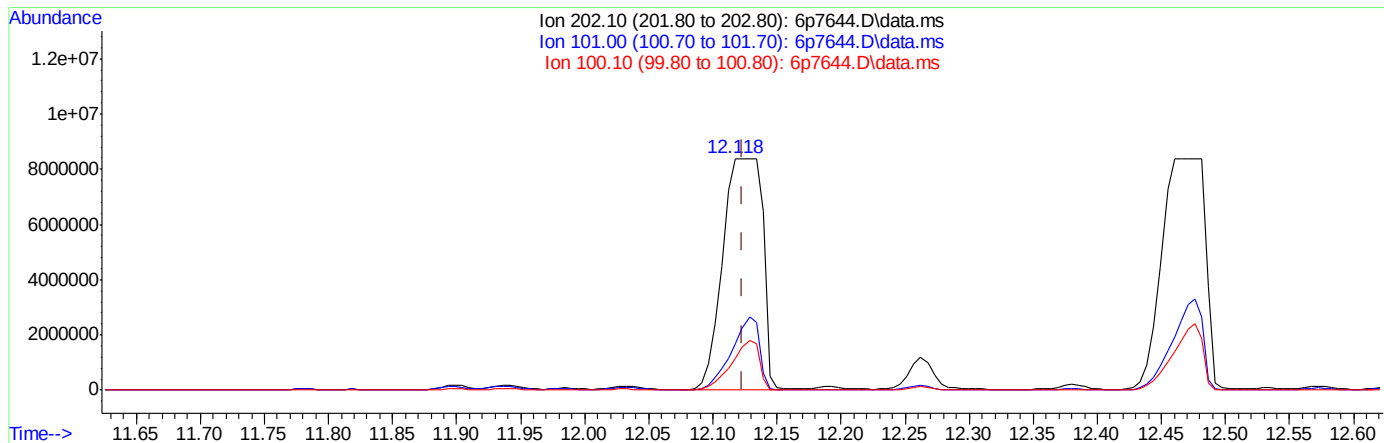
Supervisor approved: 06/03/14 13:28 Cheng-Hwan Ao

Parameter	CAS	Sig#	R.T. (min.)	Reason
Fluoranthene	206-44-0		12.12	Poor instrument integration
Pyrene	129-00-0		12.46	Poor instrument integration
Chrysene	218-01-9		14.46	Poor instrument integration
Benzo(b)fluoranthene	205-99-2		16.03	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\6p323\
Data File : 6p7644.D
Acq On : 2 Jun 2014 4:52 pm
Operator : ashleyv
Sample : op75185-msd
Misc : op75185,e6p323,30.8
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 03 12:36:01 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Tue Jun 03 12:08:54 2014
Response via : Initial Calibration



TIC: 6p7644.D\data.ms

(81) Fluoranthene (t)

12.118min (-0.005) 136.93ppb m

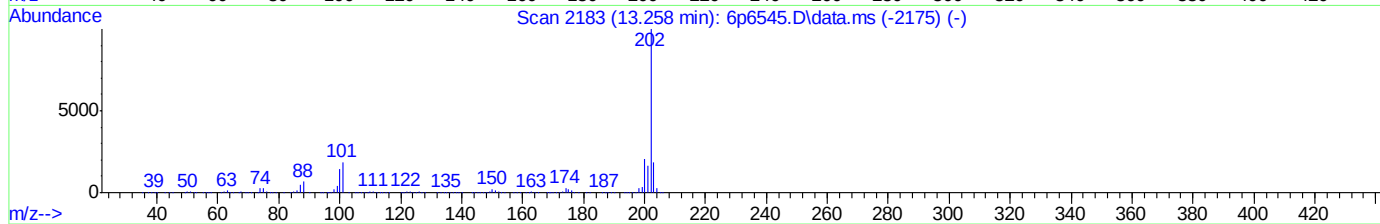
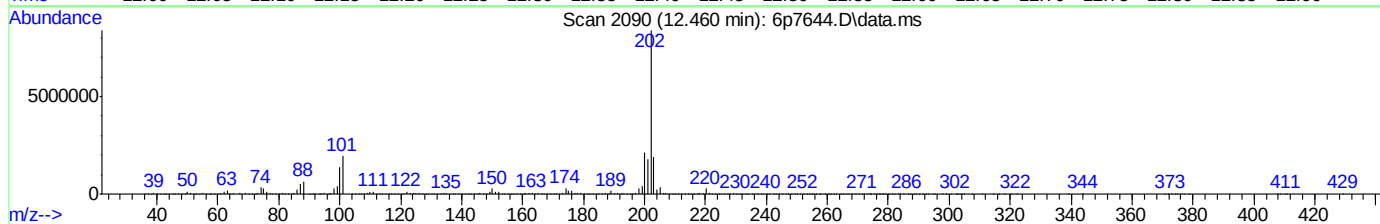
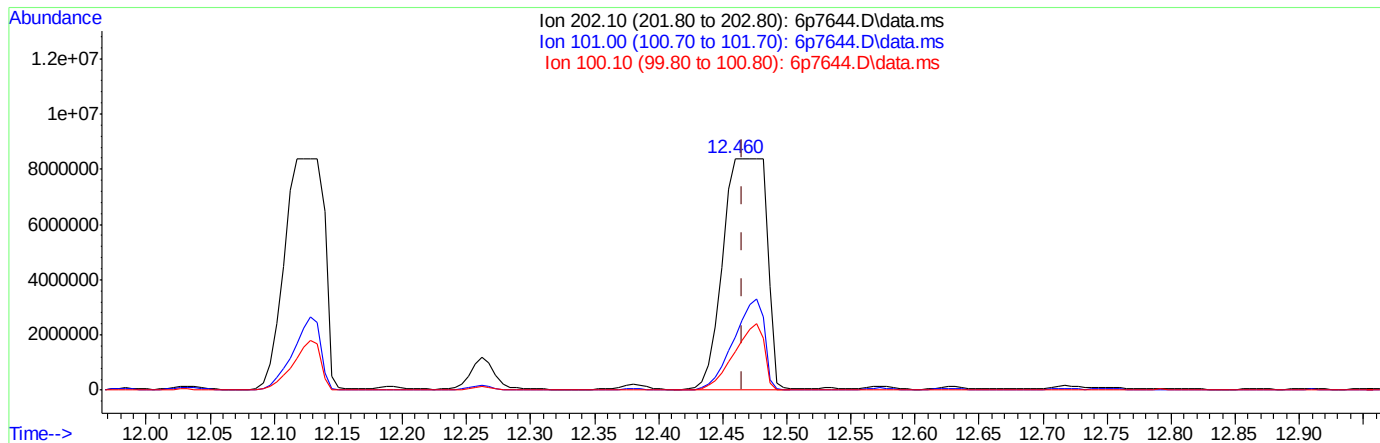
response 17959714

Ion	Exp%	Act%
202.10	100	100
101.00	15.60	20.02
100.10	11.60	13.67
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\6p323\
Data File : 6p7644.D
Acq On : 2 Jun 2014 4:52 pm
Operator : ashleyv
Sample : op75185-msd
Misc : op75185,e6p323,30.8
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 03 12:36:01 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Tue Jun 03 12:08:54 2014
Response via : Initial Calibration



(84) Pyrene (t)

12.460min (-0.005) 142.51ppb m

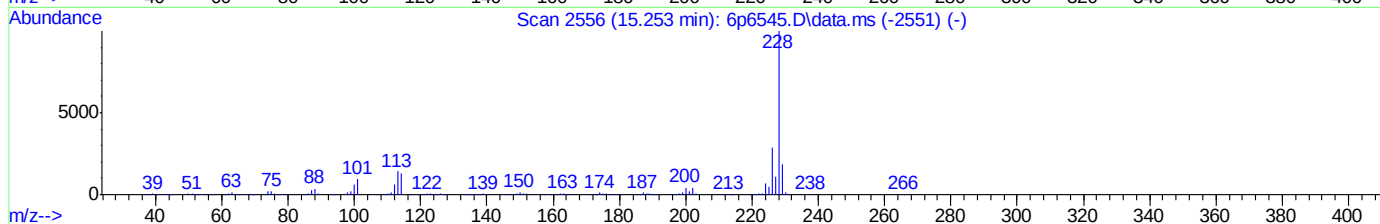
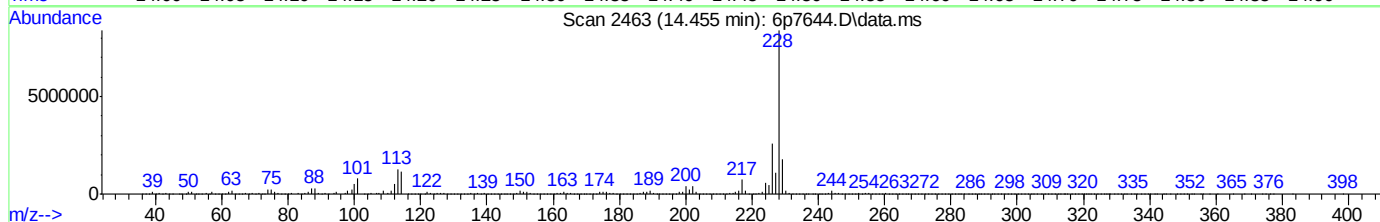
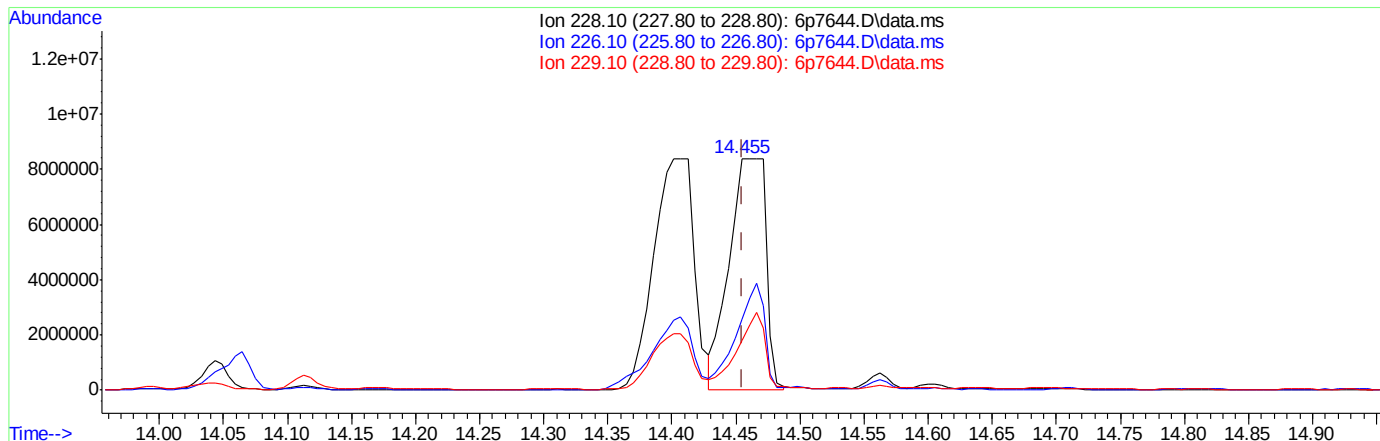
response 19667427

Ion	Exp%	Act%
202.10	100	100
101.00	18.70	23.12
100.10	14.40	16.75
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p323\
Data File : 6p7644.D
Acq On : 2 Jun 2014 4:52 pm
Operator : ashleyv
Sample : op75185-msd
Misc : op75185,e6p323,30.8
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 03 12:36:01 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Tue Jun 03 12:08:54 2014
Response via : Initial Calibration



TIC: 6p7644.D\data.ms

(90) Chrysene (t)

14.455min (-0.000) 142.83ppb m

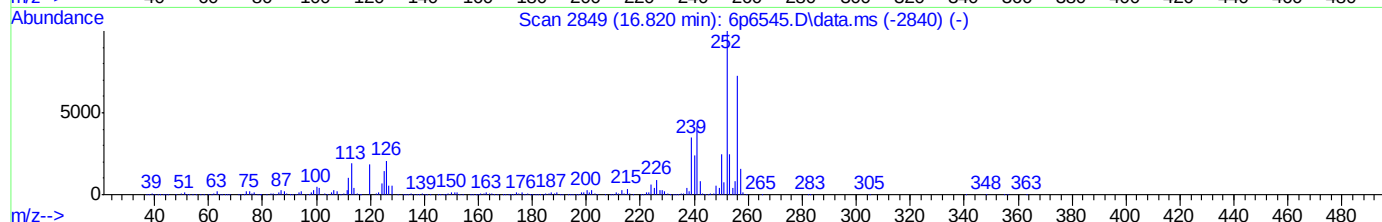
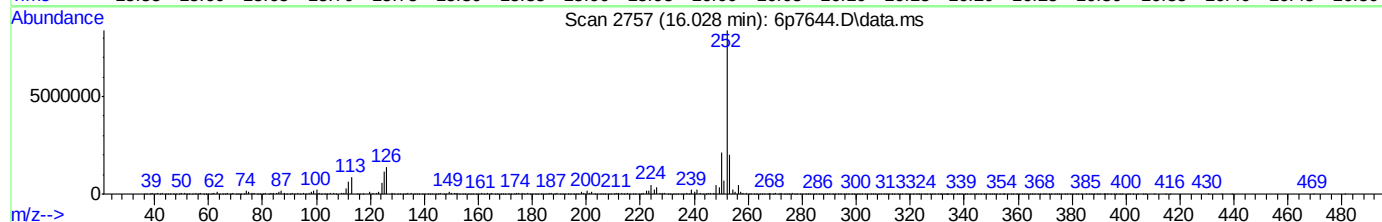
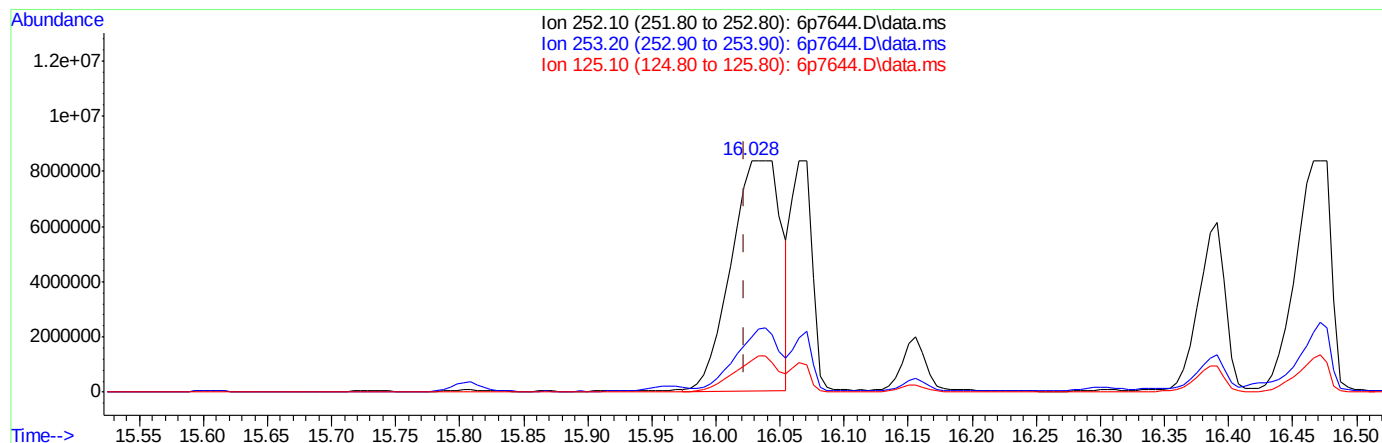
response 16443522

Ion	Exp%	Act%
228.10	100	100
226.10	28.50	30.84
229.10	18.50	21.53
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\6p323\
Data File : 6p7644.D
Acq On : 2 Jun 2014 4:52 pm
Operator : ashleyv
Sample : op75185-msd
Misc : op75185,e6p323,30.8
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 03 12:36:01 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Tue Jun 03 12:08:54 2014
Response via : Initial Calibration



TIC: 6p7644.D\data.ms

(94) Benzo[b]fluoranthene (t)

16.028min (+0.005) 187.88ppb m

response 22600492

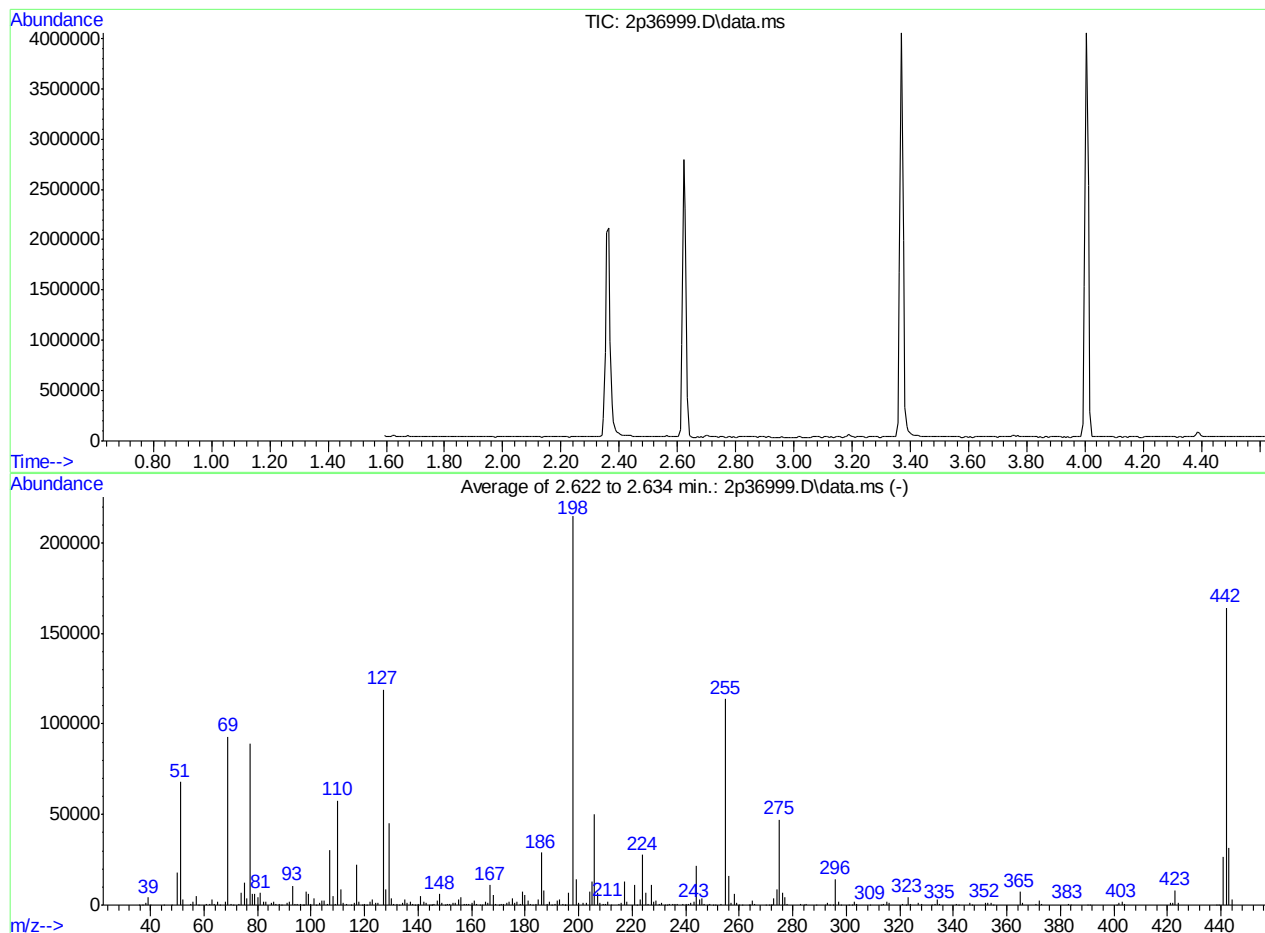
Ion	Exp%	Act%
252.10	100	100
253.20	24.80	23.73
125.10	14.90	13.72
0.00	0.00	0.00

DFTPP

Data File : C:\msdchem\1\DATA\2P1539\2p36999.D
Acq On : 28 May 2014 6:43 pm
Sample : DFTPP
Misc : op75027,e2p1539
MS Integration Params: events.e

Vial: 1
Operator: ashleyd
Inst : MS2P
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\dftpp2p.M (ChemStation Integrator)
Title :



AutoFind: Scans 176, 177, 178; Background Corrected with Scan 172

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	31.6	67898	PASS
68	69	0.00	2	1.8	1629	PASS
69	198	0.00	100	43.3	93000	PASS
70	69	0.00	2	0.6	543	PASS
127	198	40	60	55.4	118912	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	214571	PASS
199	198	5	9	6.8	14502	PASS
275	198	10	30	22.1	47330	PASS
365	198	1	100	3.3	7148	PASS
441	443	0.01	100	85.2	26792	PASS
442	198	40	100	76.5	164149	PASS
443	442	17	23	19.2	31458	PASS

Average of 2.622 to 2.634 min.: 2p36999.D\data.ms

DFTPP

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.90	16	55.95	2136	69.95	543	82.00	1773
36.90	314	57.00	4997	71.00	203	82.95	1702
38.00	1083	58.00	263	72.95	730	84.95	1478
39.10	4314	61.00	900	74.00	6906	85.90	1878
39.90	150	62.00	873	75.00	12583	86.95	440
44.85	236	63.00	2908	76.00	4016	87.90	414
47.90	51	63.95	382	77.00	89138	88.90	105
50.00	17942	65.00	1607	78.05	6068	90.90	1158
51.00	67898	66.00	96	79.00	6082	92.00	1749
51.95	3387	68.10	1629	80.00	4515	93.00	10787
55.00	369	69.00	93000	81.00	6674	94.00	723

Average of 2.622 to 2.634 min.: 2p36999.D\data.ms

DFTPP

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
94.95	343	105.00	2250	117.00	22417	129.00	45331
96.00	690	106.05	768	118.00	1576	130.00	3786
97.00	157	107.00	30580	118.90	212	131.00	795
97.20	97	108.00	4851	120.00	383	131.95	422
97.95	7397	109.05	877	120.90	85	132.90	225
99.00	6148	110.00	57814	122.00	1835	133.95	1095
99.95	695	111.00	8600	123.00	3090	135.00	3032
101.00	3854	112.00	1033	123.95	1462	136.00	1204
101.85	312	113.10	370	125.00	1420	137.00	1856
103.00	1114	115.05	209	127.00	118912	137.95	434
104.00	2368	116.00	1416	128.00	8732	138.95	242

Average of 2.622 to 2.634 min.: 2p36999.D\data.ms

DFTPP

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
140.05	402	149.95	316	161.00	2348	171.95	850
141.00	4946	150.95	706	161.95	519	173.00	1247
142.00	1711	151.95	468	163.00	216	174.05	1670
142.95	1321	153.00	1526	163.85	321	175.00	3926
144.00	310	154.00	1201	164.95	1853	175.95	1303
144.90	129	155.00	2837	166.00	1264	177.00	1816
145.10	105	156.00	4068	167.00	10970	178.05	507
145.90	720	157.00	936	168.00	5651	179.00	7378
147.00	2484	157.95	759	169.00	904	180.00	5488
148.00	6149	158.95	603	170.05	316	181.00	2446
149.00	1203	160.00	1384	170.90	388	181.95	465

Average of 2.622 to 2.634 min.: 2p36999.D\data.ms

DFTPP

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
182.85	239	194.00	455	206.00	50107	221.00	11089
184.00	588	194.80	171	207.00	6887	221.70	248
185.00	3411	195.10	150	208.00	1544	223.00	3102
186.00	29085	196.00	6981	208.95	449	224.00	27832
187.00	7834	198.00	214571	210.00	347	225.00	6695
188.00	709	199.00	14502	211.00	1974	226.00	638
188.95	1572	200.00	1206	212.10	111	227.00	11421
189.95	292	201.50	1034	214.90	449	227.95	1627
191.00	724	203.00	1378	216.00	1015	229.00	2404
191.95	2384	204.00	7467	217.00	12922	229.90	352
193.00	2978	205.00	12933	218.00	1936	231.00	1003

Average of 2.622 to 2.634 min.: 2p36999.D\data.ms

DFTPP

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
232.00	262	244.00	21795	257.00	1173	271.90	166
233.00	206	245.00	3000	258.00	6251	272.10	121
234.00	689	246.00	4025	259.00	1018	273.00	3579
235.05	716	247.00	604	259.90	235	274.00	8636

235.95	542	247.90	226	260.90	218	275.00	47330
236.95	783	249.00	747	263.80	131	276.00	6547
239.00	480	250.00	113	264.00	94	277.00	4052
240.00	343	251.00	132	265.00	2607	278.00	645
241.00	533	253.10	391	265.90	354	283.00	385
242.00	1564	255.00	113645	269.90	83	283.95	291
243.10	1853	256.00	16217	271.00	251	285.00	552

Average of 2.622 to 2.634 min.: 2p36999.D\data.ms

DFTPP

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
288.90	106	304.00	461	328.00	469	354.00	1418
291.95	252	308.90	96	331.95	335	354.95	218
292.95	1067	313.05	203	333.05	402	365.00	7148
293.95	270	314.00	621	334.00	3066	365.90	1243
294.90	303	315.00	1674	335.00	805	370.95	369
296.00	14292	316.00	1001	341.00	701	372.00	2571
297.00	2048	320.95	420	342.00	124	373.05	606
297.90	88	322.10	274	346.00	1142	383.00	704
300.90	83	323.00	4457	347.00	86	383.95	267
302.00	217	324.00	786	352.00	1459	390.05	306
303.00	1731	327.00	997	353.05	957	390.95	196

Average of 2.622 to 2.634 min.: 2p36999.D\data.ms

DFTPP

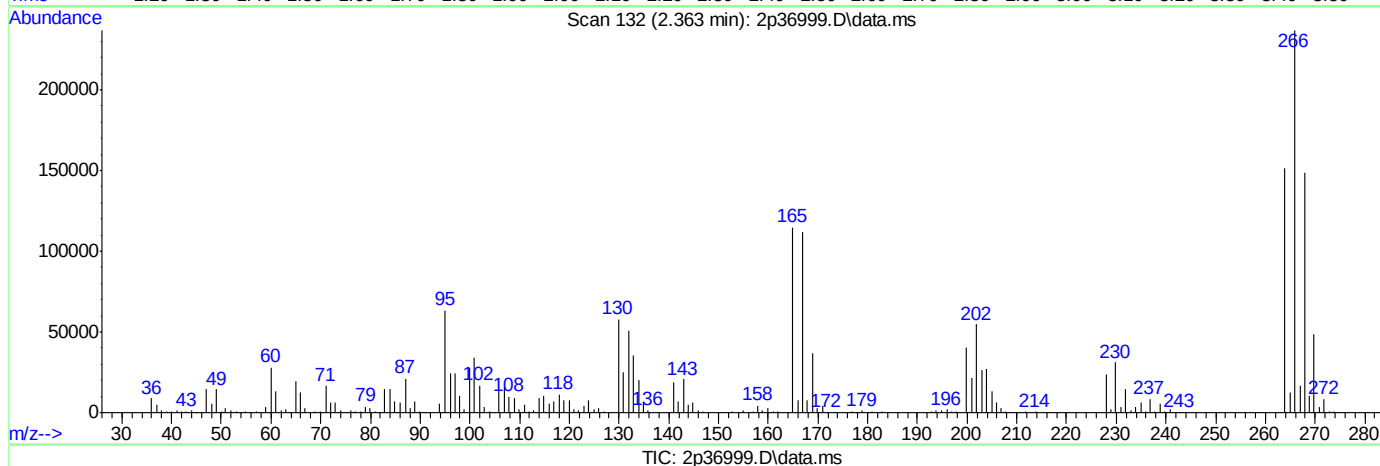
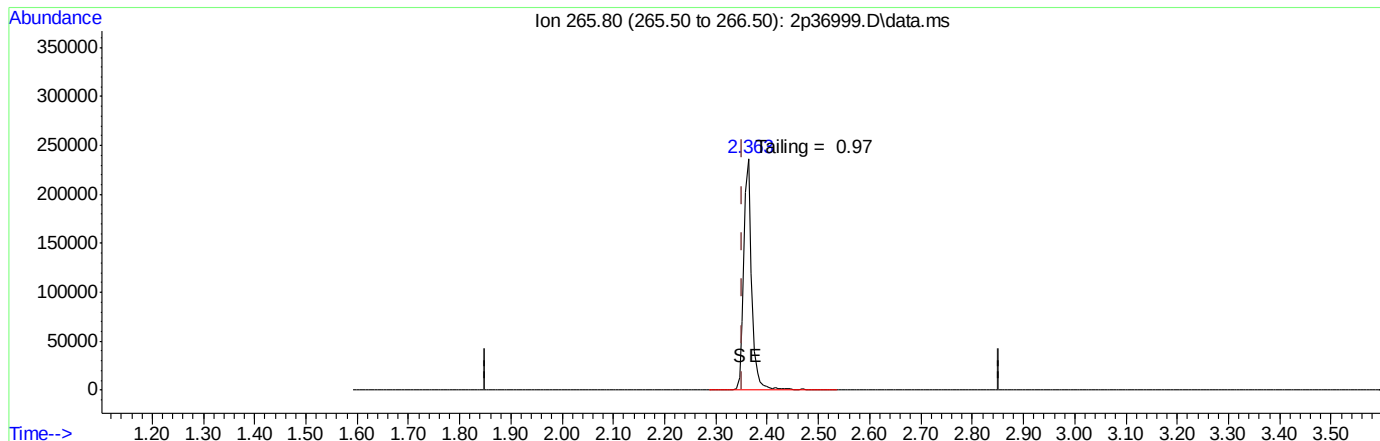
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
400.90	92	442.00	164149				
401.95	979	443.00	31458				
403.00	1704	444.00	3160				
404.00	377						
421.00	1550						
421.95	1151						
423.00	8092						
424.05	1523						
438.40	97						
439.20	117						
441.00	26792						

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1539\
Data File : 2p36999.D
Acq On : 28 May 2014 6:43 pm
Operator : ashleyd
Sample : DFTPP
Misc : op75027,e2p1539
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 09:13:13 2014
Quant Method : C:\MSDCHEM\1\METHODS\dftpp2p.M
Quant Title :
QLast Update : Thu May 29 09:05:38 2014
Response via : Initial Calibration



(1) Pentachlorophenol

2.364min (+0.012) 53.31ppb

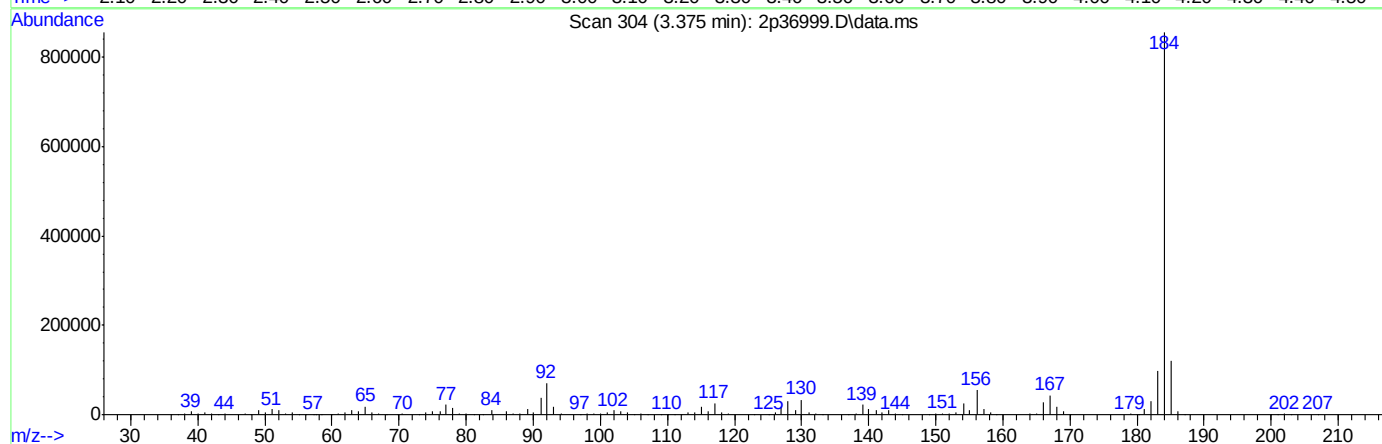
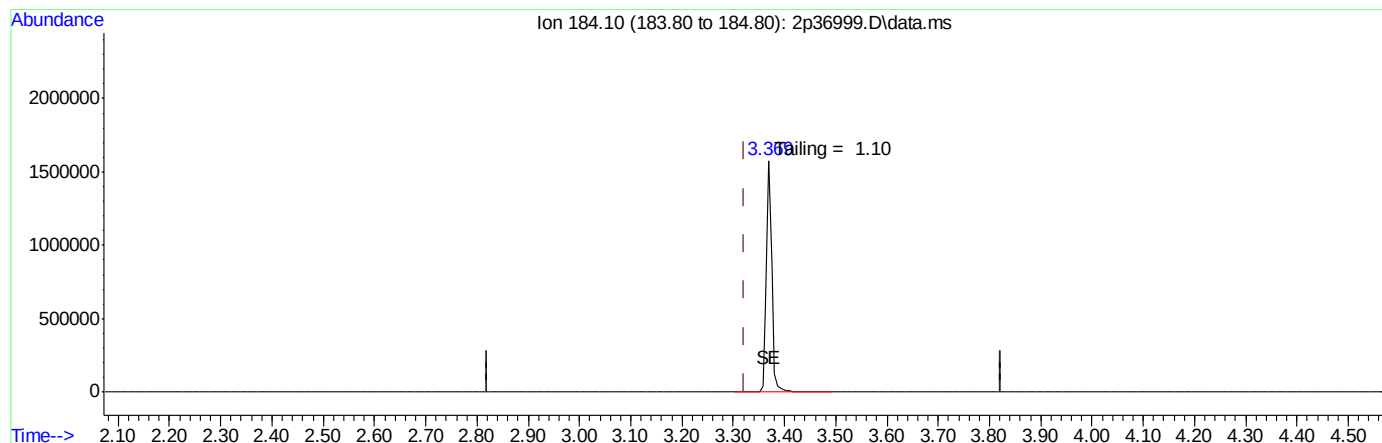
response 2534011

Ion	Exp%	Act%
265.80	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1539\
Data File : 2p36999.D
Acq On : 28 May 2014 6:43 pm
Operator : ashleyd
Sample : DFTPP
Misc : op75027,e2p1539
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 09:13:13 2014
Quant Method : C:\MSDCHEM\1\METHODS\dftpp2p.M
Quant Title :
QLast Update : Thu May 29 09:05:38 2014
Response via : Initial Calibration



TIC: 2p36999.D\data.ms

(2) Benzidine

3.372min (+0.050) 51.01ppb

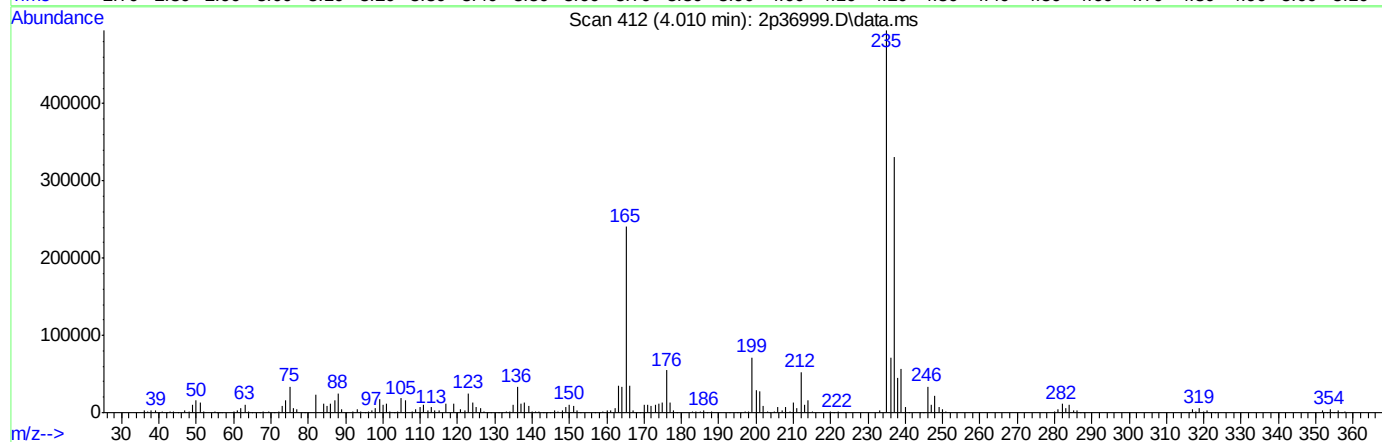
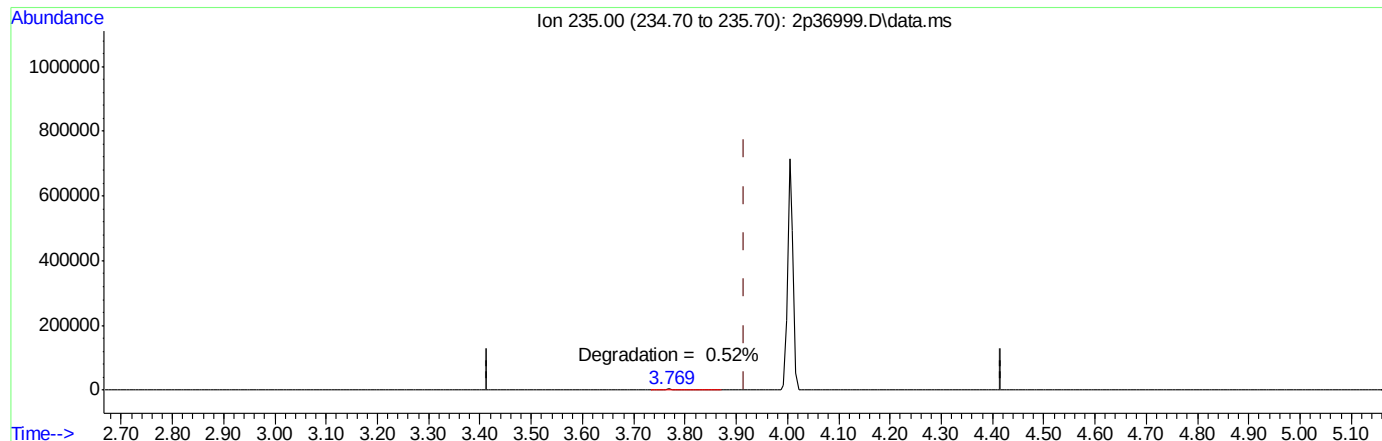
response 11530157

Ion	Exp%	Act%
184.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1539\
Data File : 2p36999.D
Acq On : 28 May 2014 6:43 pm
Operator : ashleyd
Sample : DFTPP
Misc : op75027,e2p1539
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 09:13:13 2014
Quant Method : C:\MSDCHEM\1\METHODS\dftpp2p.M
Quant Title :
QLast Update : Thu May 29 09:05:38 2014
Response via : Initial Calibration



TIC: 2p36999.D\data.ms

(3) PP-DDT

4.008min (+0.092) 56.13ppb

response 5281227

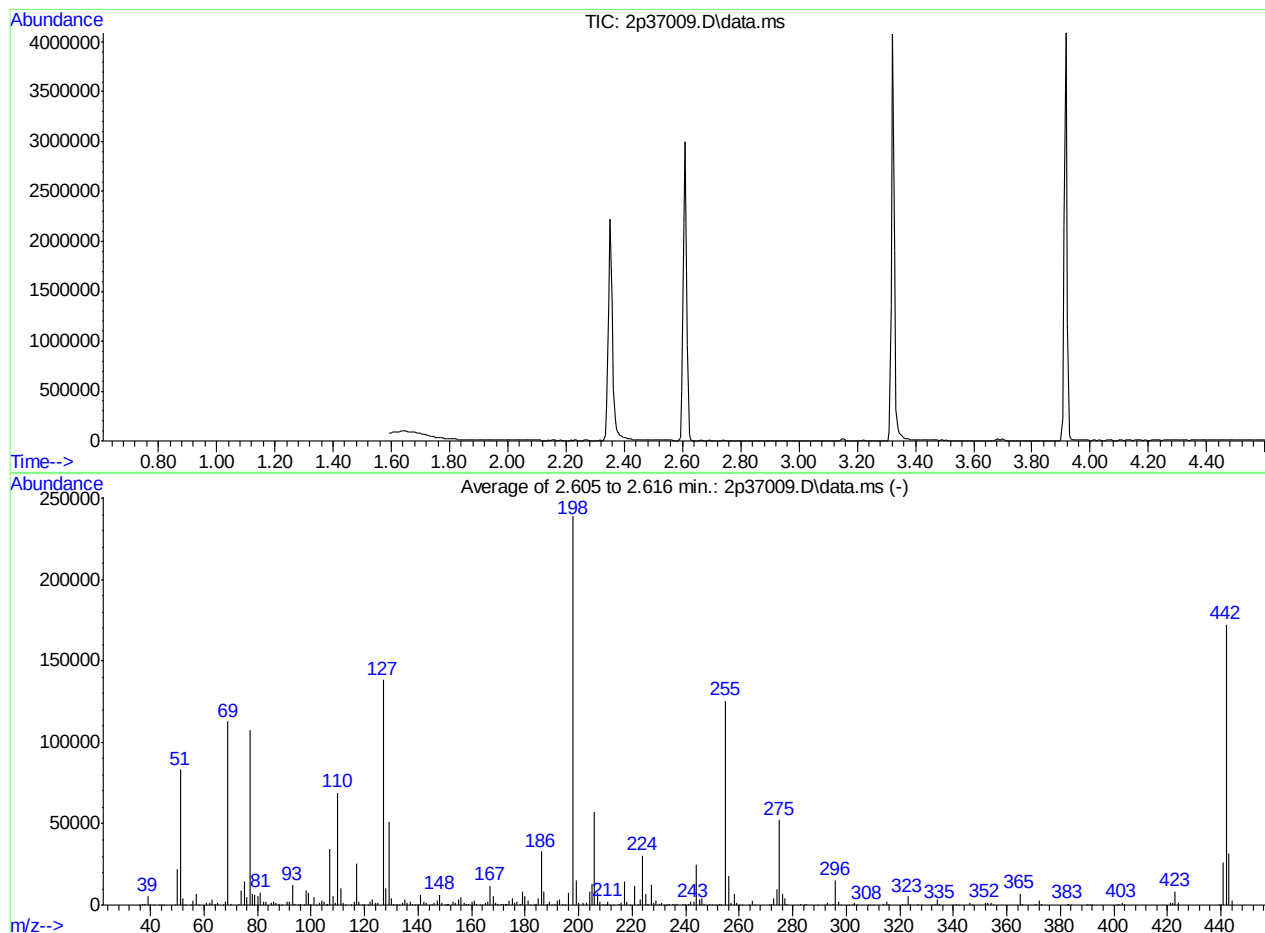
Ion	Exp%	Act%
235.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

DFTPP

Data File : C:\msdchem\1\DATA\2P1540\2p37009.D
 Acq On : 29 May 2014 8:58 am
 Sample : DFTPP
 Misc : op75027,e2p1540,
 MS Integration Params: events.e

Vial: 1
 Operator: olgaa
 Inst : MS2P
 Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\dftpp2p.M (ChemStation Integrator)
 Title :



AutoFind: Scans 173, 174, 175; Background Corrected with Scan 168

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	34.8	83180	PASS
68	69	0.00	2	1.6	1856	PASS
69	198	0.00	100	47.2	112861	PASS
70	69	0.00	2	0.4	505	PASS
127	198	40	60	57.9	138307	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	238976	PASS
199	198	5	9	6.4	15362	PASS
275	198	10	30	21.8	52144	PASS
365	198	1	100	3.0	7217	PASS
441	443	0.01	100	82.9	26375	PASS
442	198	40	100	72.2	172507	PASS
443	442	17	23	18.4	31808	PASS

Average of 2.605 to 2.616 min.: 2p37009.D\data.ms

DFTPP

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.90	148	51.00	83180	65.05	1735	79.00	6350
37.00	496	52.05	4226	67.10	97	80.00	5405
37.95	817	53.00	197	68.10	1856	81.00	7662
39.05	5695	54.95	313	69.00	112861	82.00	1951
39.95	454	56.00	2750	70.00	505	83.00	1977
41.00	113	57.00	6631	73.00	807	85.00	1722
43.05	353	58.00	221	74.00	8803	86.00	2026
44.00	63	61.00	1088	75.00	14804	87.00	1174
45.05	188	62.00	1235	76.10	4877	87.95	369
48.95	355	63.05	3510	77.10	107896	88.95	192
50.00	22187	64.00	442	78.05	7137	91.00	1939

Average of 2.605 to 2.616 min.: 2p37009.D\data.ms

DFTPP

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
92.00	1825	103.00	1537	112.95	316	125.00	1465
93.00	12286	104.00	2587	114.90	101	127.00	138307
94.00	928	105.00	2398	116.00	1914	128.00	10251
95.00	220	105.80	89	117.00	25651	129.00	51179
96.00	784	106.05	836	118.00	2124	130.00	4294
97.10	85	107.00	34461	118.90	289	130.95	811
98.00	8673	108.00	5774	119.95	494	132.05	464
99.00	7313	109.10	1082	121.00	111	132.90	244
99.95	774	110.00	68944	122.00	2353	134.00	1336
100.95	4582	111.00	10062	123.00	3458	135.00	3524
101.95	245	112.00	1457	123.95	1674	136.00	1513

Average of 2.605 to 2.616 min.: 2p37009.D\data.ms

DFTPP

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
137.05	1772	148.00	6497	158.95	770	169.95	369
137.90	501	148.95	1360	160.00	1972	171.00	462
138.90	133	150.00	306	161.00	2670	171.90	987
139.95	390	150.95	466	162.00	924	172.90	435
141.00	5899	151.45	755	163.00	115	173.10	710
142.00	1943	153.00	1774	163.95	354	174.00	2664
143.00	1320	153.95	1502	164.95	1731	175.00	4470
144.00	306	155.00	3176	166.00	1914	176.00	1402
145.00	280	156.00	4771	167.00	11790	177.00	1958
146.00	1130	157.00	1094	168.00	5756	178.00	603
147.00	2751	157.95	933	169.05	1157	179.00	8480

Average of 2.605 to 2.616 min.: 2p37009.D\data.ms

DFTPP

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
180.00	5714	191.00	836	204.00	8217	214.95	606
181.00	2788	192.00	2688	205.00	13396	216.00	1241
181.95	361	193.00	3215	206.00	57253	217.00	14695
183.05	290	194.00	507	207.00	7490	218.00	1874
184.00	569	194.85	334	208.00	1788	219.00	102
185.00	4264	196.00	7459	209.00	639	221.00	11955
186.00	32774	198.00	238976	209.90	360	222.00	294
187.00	8565	199.00	15362	210.30	146	223.00	3361
188.05	781	200.00	1303	211.00	2420	224.00	30699
189.00	1824	201.50	1281	211.85	279	225.00	7115
189.90	257	203.00	1505	212.90	93	226.00	839

Average of 2.605 to 2.616 min.: 2p37009.D\data.ms

DFTPP

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
227.00	12520	237.00	908	248.95	893	259.90	137
227.95	1745	239.00	458	249.80	103	260.90	126
229.00	2781	239.90	426	251.00	179	263.80	256
229.90	479	240.90	774	251.90	181	265.00	2713

230.95	1161	242.00	1832	252.90	432	265.85	190
231.95	303	243.00	1837	253.10	105	271.00	97
232.80	92	244.00	24614	255.00	125528	271.85	387
233.00	97	245.00	3224	256.00	18166	273.00	3864
233.90	986	246.00	4172	257.00	1223	274.00	9630
235.00	938	246.95	759	258.00	6749	275.00	52144
235.95	668	247.80	106	259.00	1094	276.00	6781

Average of 2.605 to 2.616 min.: 2p37009.D\data.ms

DFTPP

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
277.00	4403	297.00	2196	314.95	1808	335.00	871
277.95	715	298.00	97	315.95	996	340.00	85
283.00	497	301.00	135	321.05	540	341.00	526
284.00	222	302.00	194	321.95	215	342.00	89
284.95	832	302.95	1705	323.00	5402	345.95	1289
289.00	106	303.80	106	324.00	1021	347.10	89
291.90	136	304.00	262	326.95	976	351.95	1517
293.00	1148	308.00	121	328.00	319	352.95	1168
293.95	352	309.00	107	331.95	282	354.00	1522
295.00	417	310.00	111	333.05	487	355.00	271
296.00	15457	314.00	797	334.00	3335	365.00	7217

Average of 2.605 to 2.616 min.: 2p37009.D\data.ms

DFTPP

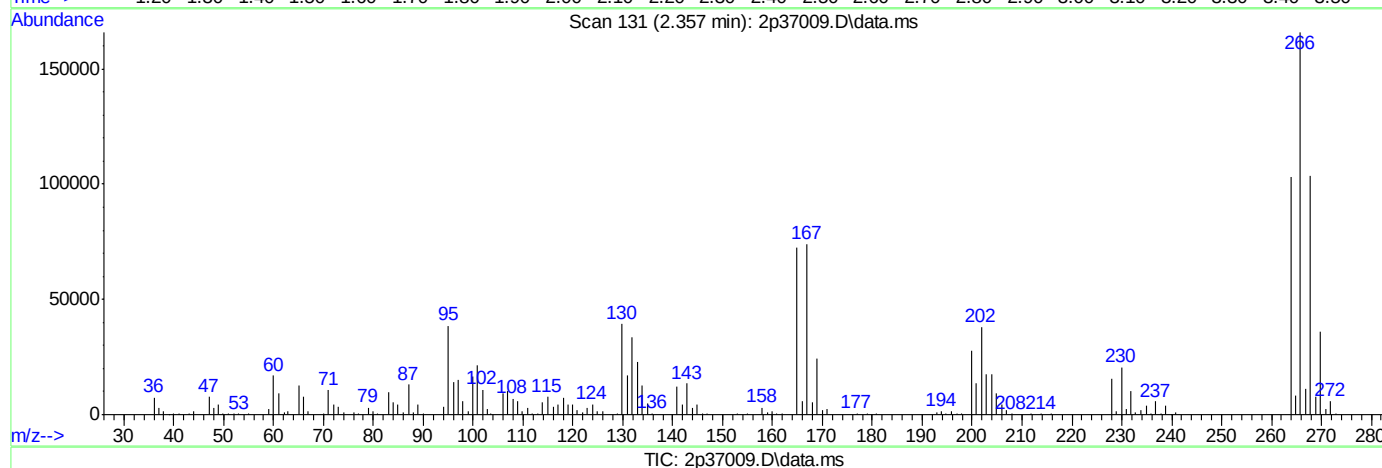
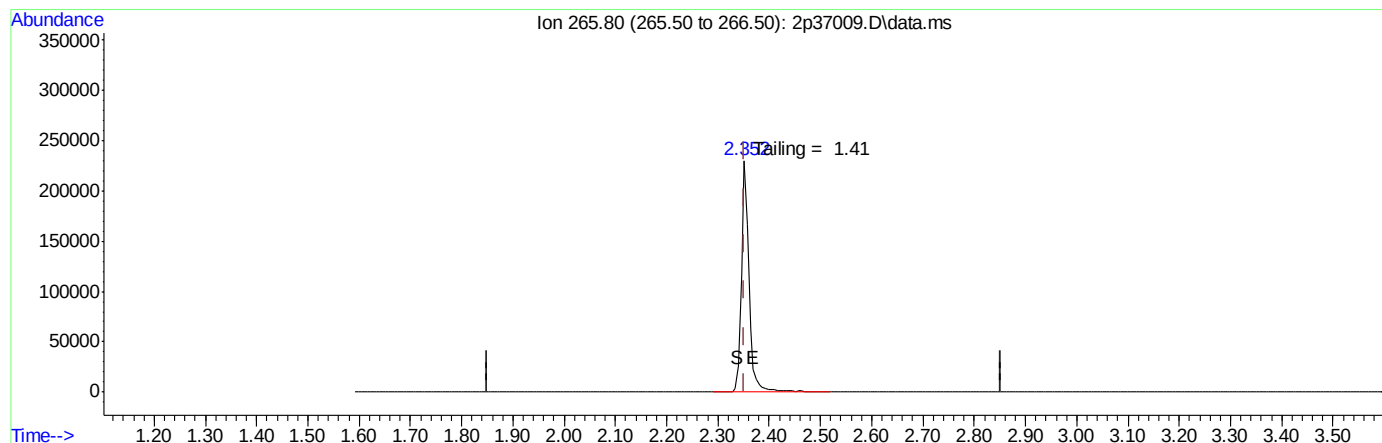
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
365.95	1034	391.90	105	439.90	211		
369.90	86	400.90	137	441.00	26375		
370.95	465	402.00	1011	442.00	172507		
372.00	2526	403.00	1730	443.05	31808		
373.00	809	403.95	565	444.00	3089		
382.70	89	421.05	1423				
382.95	716	422.00	1298				
384.00	240	423.00	8446				
389.80	217	424.00	1741				
390.00	105	439.00	107				
391.00	115	439.60	127				

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1540\
Data File : 2p37009.D
Acq On : 29 May 2014 8:58 am
Operator : olgaa
Sample : DFTPP
Misc : op75027,e2p1540,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 09:05:50 2014
Quant Method : C:\MSDCHEM\1\METHODS\dftpp2p.M
Quant Title :
QLast Update : Thu May 29 09:05:38 2014
Response via : Initial Calibration



(1) Pentachlorophenol

2.355min (+0.003) 49.18ppb

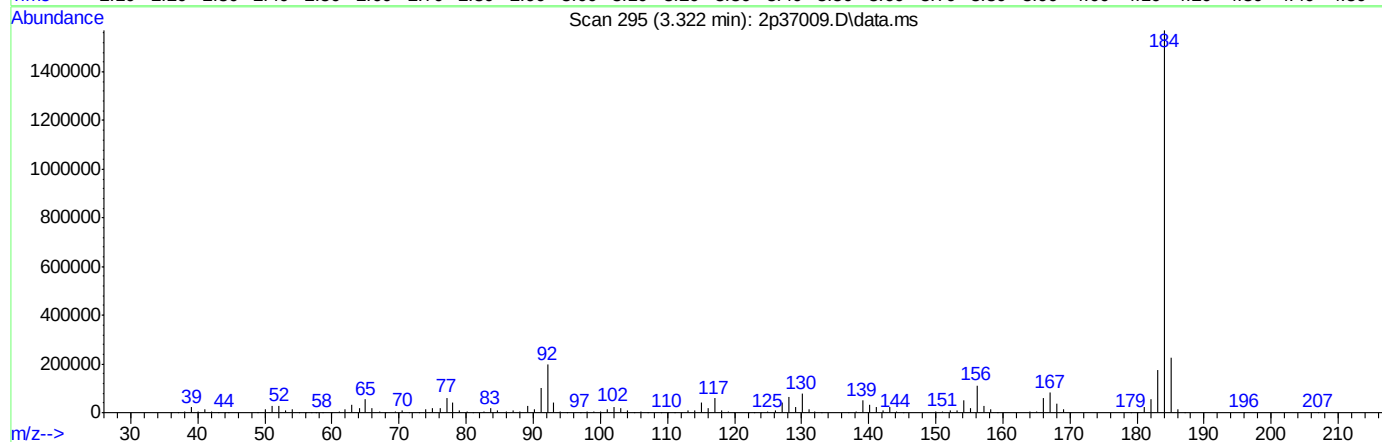
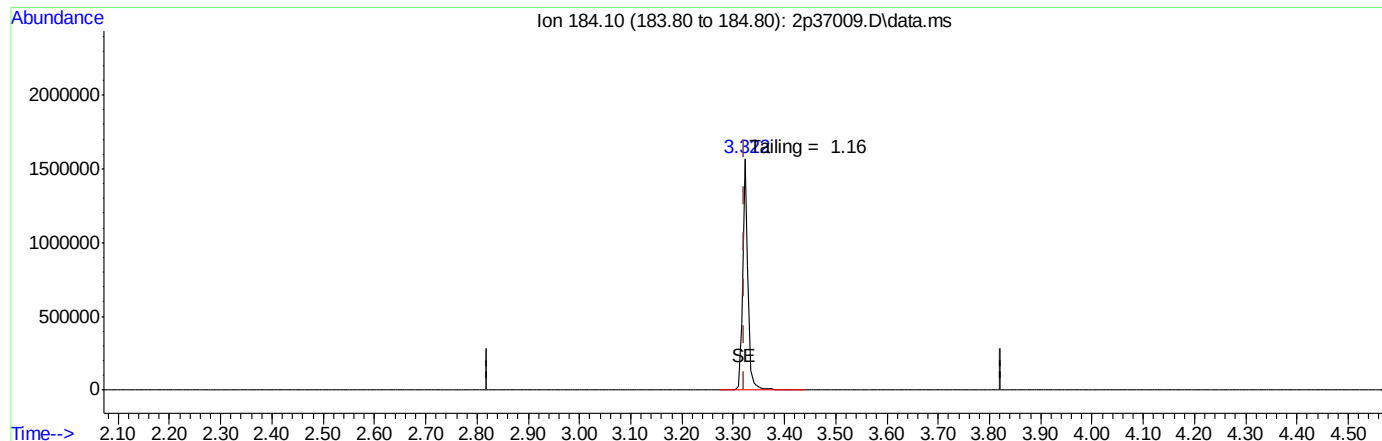
response 2337872

Ion	Exp%	Act%
265.80	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1540\
Data File : 2p37009.D
Acq On : 29 May 2014 8:58 am
Operator : olgaa
Sample : DFTPP
Misc : op75027,e2p1540,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 09:05:50 2014
Quant Method : C:\MSDCHEM\1\METHODS\dftpp2p.M
Quant Title :
QLast Update : Thu May 29 09:05:38 2014
Response via : Initial Calibration



TIC: 2p37009.D\data.ms

(2) Benzidine

3.325min (+0.003) 49.39ppb

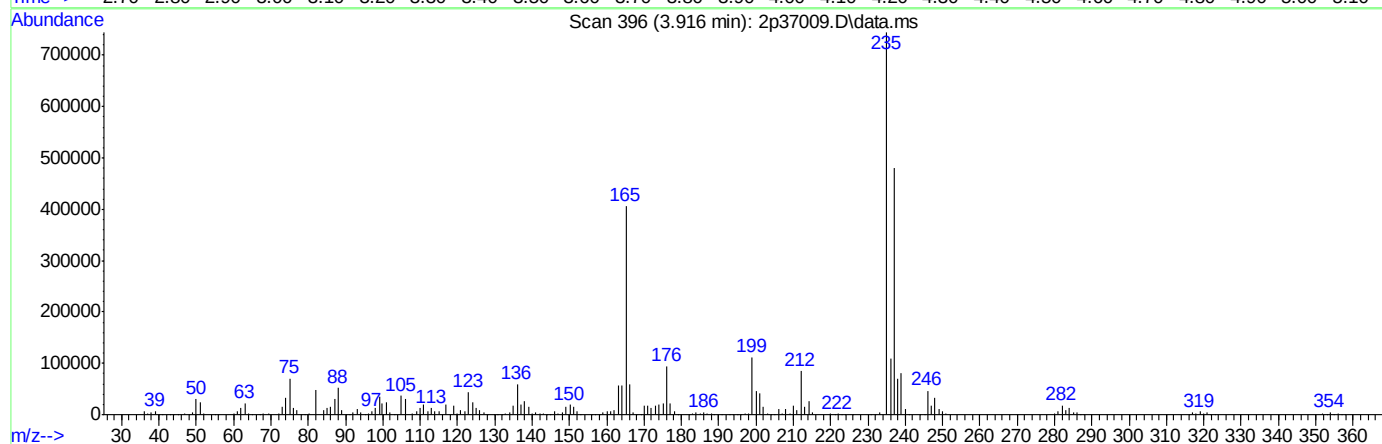
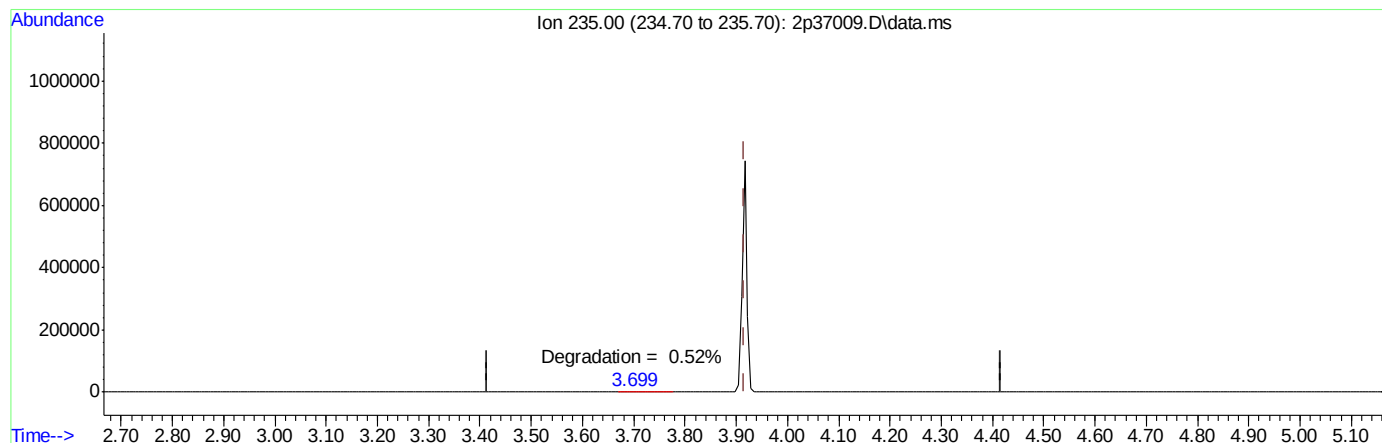
response 11162449

Ion	Exp%	Act%
184.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1540\
Data File : 2p37009.D
Acq On : 29 May 2014 8:58 am
Operator : olgaa
Sample : DFTPP
Misc : op75027,e2p1540,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 09:05:50 2014
Quant Method : C:\MSDCHEM\1\METHODS\dftpp2p.M
Quant Title :
QLast Update : Thu May 29 09:05:38 2014
Response via : Initial Calibration



(3) PP-DDT

3.918min (+0.002) 49.76ppb

response 4681975

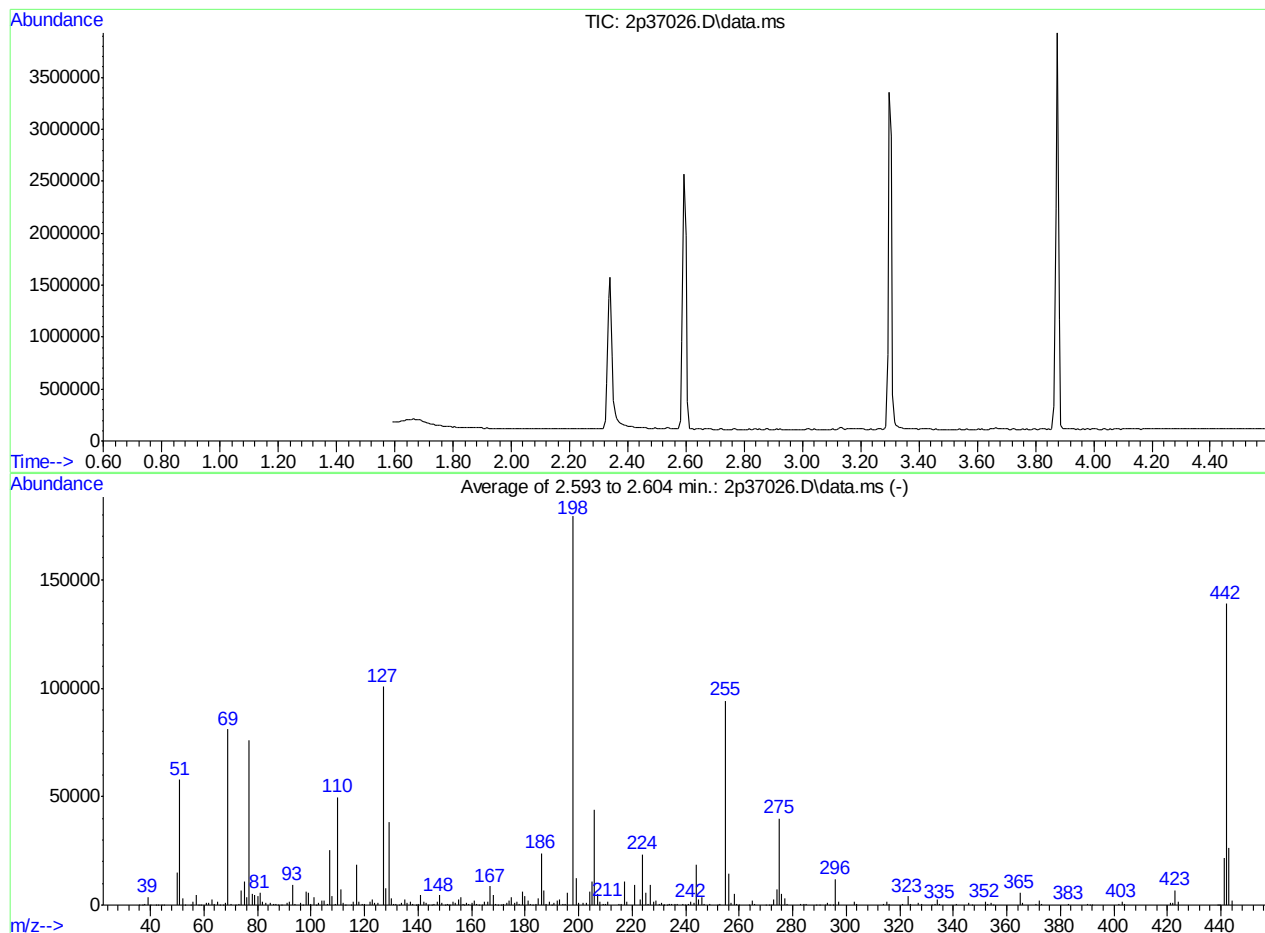
Ion	Exp%	Act%
235.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

DFTPP

Data File : C:\msdchem\1\DATA\2P1541\2p37026.D
 Acq On : 29 May 2014 5:34 pm
 Sample : DFTPP
 Misc : op75027,e2p1541
 MS Integration Params: events.e

Vial: 1
 Operator: ashleyd
 Inst : MS2P
 Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\DFTPP2P.M (ChemStation Integrator)
 Title :



AutoFind: Scans 171, 172, 173; Background Corrected with Scan 167

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	32.3	57837	PASS
68	69	0.00	2	1.2	1001	PASS
69	198	0.00	100	45.2	80959	PASS
70	69	0.00	2	0.4	361	PASS
127	198	40	60	56.1	100558	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	179187	PASS
199	198	5	9	6.9	12335	PASS
275	198	10	30	22.3	39896	PASS
365	198	1	100	3.1	5574	PASS
441	443	0.01	100	83.4	21914	PASS
442	198	40	100	77.5	138933	PASS
443	442	17	23	18.9	26281	PASS

Average of 2.593 to 2.604 min.: 2p37026.D\data.ms

DFTPP

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	255	52.00	2895	65.00	1371	76.95	75784
37.00	113	53.05	236	66.00	97	78.05	5329
38.00	577	55.00	129	67.00	176	78.95	4783
39.00	3828	55.95	1581	68.00	1001	80.00	4052
39.95	199	57.00	4474	69.00	80959	81.00	5527
42.00	26	57.95	52	70.00	361	81.95	1423
43.00	2	59.00	126	72.00	193	83.00	1142
44.00	40	61.05	920	73.00	559	85.00	880
45.00	111	61.95	894	74.00	6912	86.00	498
50.00	15029	63.00	2640	75.00	11095	87.00	558
51.00	57837	64.05	368	76.05	3781	87.90	249

Average of 2.593 to 2.604 min.: 2p37026.D\data.ms

DFTPP

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
89.00	133	102.00	253	112.85	278	127.00	100558
91.00	1172	102.95	1194	114.90	85	128.00	7815
92.00	1422	104.00	1834	116.00	1367	129.00	38232
93.00	9240	105.00	1871	117.00	18494	130.00	3332
94.00	682	106.05	698	117.95	1341	131.00	709
96.05	796	107.00	25098	118.95	333	131.85	413
96.95	193	108.00	3959	120.00	335	132.95	14
98.00	6424	109.10	366	121.95	1693	134.00	979
99.00	5626	110.00	49726	122.95	2477	135.00	2558
99.95	581	111.00	7303	123.95	1291	136.00	1078
101.00	3449	111.95	921	125.00	1283	137.00	1460

Average of 2.593 to 2.604 min.: 2p37026.D\data.ms

DFTPP

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
137.90	357	149.00	1007	158.00	809	169.00	740
139.10	111	150.00	227	159.00	489	169.90	253
139.95	415	151.05	705	160.00	1274	170.90	211
141.00	4430	151.60	227	161.00	2039	172.00	685
142.00	1324	151.90	225	162.00	623	173.00	861
143.00	1132	153.00	1327	162.90	95	174.00	1892
144.00	165	154.00	1062	163.95	264	175.00	3398
144.95	222	155.05	2364	164.90	1456	176.00	1016
145.95	777	156.05	3460	166.05	1425	177.00	1514
147.05	1824	157.00	451	166.95	8710	177.90	552
148.00	4560	157.20	227	168.00	4796	179.00	6192

Average of 2.593 to 2.604 min.: 2p37026.D\data.ms

DFTPP

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
180.00	4342	190.95	908	204.05	6097	218.00	1406
181.00	1962	192.00	1907	205.05	10713	221.00	9208
181.95	321	193.00	2534	206.00	44000	223.00	2639
183.00	99	194.00	410	207.00	5440	224.00	23392
183.95	543	194.85	296	208.00	1557	225.05	5774
185.00	3020	196.00	5763	209.00	486	226.00	632
186.00	23913	198.00	179187	210.20	371	227.00	9330
187.00	6756	199.00	12335	211.00	1714	228.00	1543
188.00	746	200.00	916	214.95	464	229.00	2045
189.00	1387	201.50	1113	216.00	784	229.95	294
189.95	232	202.95	1207	217.00	11006	231.00	838

Average of 2.593 to 2.604 min.: 2p37026.D\data.ms

DFTPP

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
231.80	90	242.00	1337	257.00	1091	274.00	7288
232.00	112	243.10	1163	258.00	5270	275.00	39896
232.95	189	244.00	18681	258.95	751	276.00	5220
233.90	294	245.00	2475	259.90	96	277.00	3233

234.10	288	246.00	3444	263.85	180	277.95	541
234.95	598	246.95	722	265.00	2287	282.90	374
235.90	426	249.00	533	265.85	333	284.00	280
236.95	707	251.90	102	269.90	83	285.05	560
238.90	391	252.90	362	271.05	210	288.90	86
239.90	235	255.00	94192	272.00	252	290.00	114
241.00	510	256.00	14270	273.00	2782	292.00	116

Average of 2.593 to 2.604 min.: 2p37026.D\data.ms
DFTPP

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
293.00	871	323.00	4055	352.00	1410	391.00	103
293.90	201	324.00	681	353.00	702	391.90	94
295.10	149	327.00	838	354.10	1272	402.00	776
296.00	11982	327.95	376	355.00	146	403.05	1371
297.00	1655	331.85	228	365.00	5574	404.05	332
303.00	1393	333.00	347	365.95	854	421.00	1022
303.95	377	334.00	2739	370.95	359	422.05	954
313.95	446	335.05	589	372.00	2257	423.00	6949
315.00	1371	341.05	416	373.00	463	424.05	1331
315.95	750	345.90	907	383.05	493	438.60	93
321.00	329	346.90	99	390.00	311	439.10	86

Average of 2.593 to 2.604 min.: 2p37026.D\data.ms
DFTPP

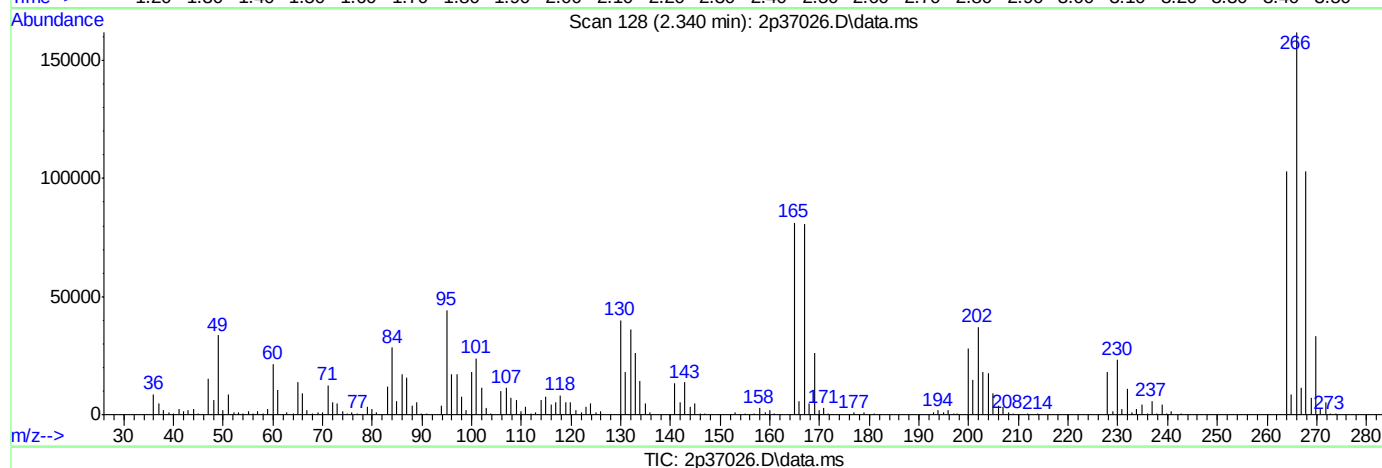
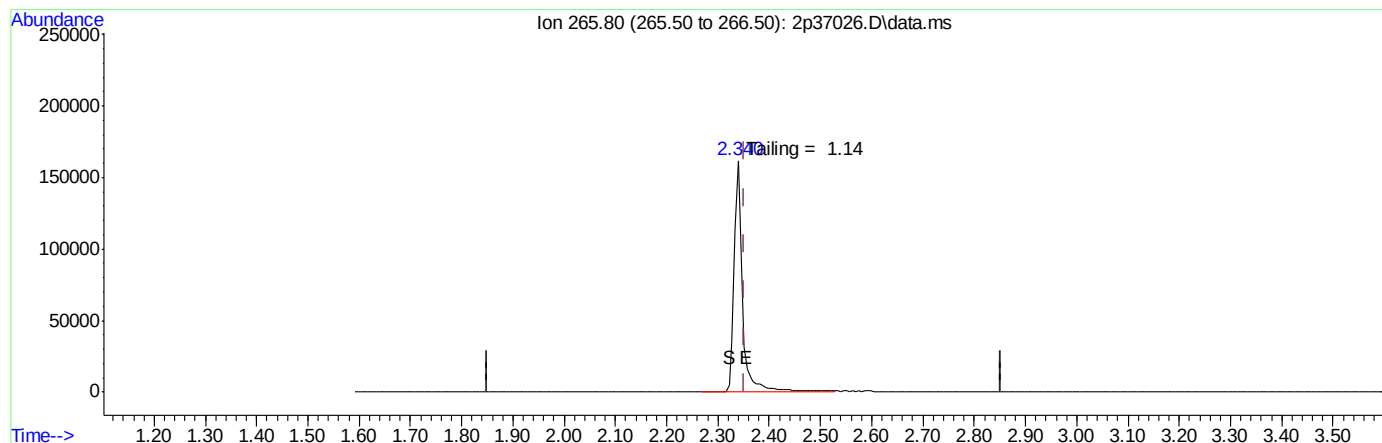
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
439.70	125						
441.05	21914						
442.00	138933						
443.00	26281						
444.00	2267						

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1541\
Data File : 2p37026.D
Acq On : 29 May 2014 5:34 pm
Operator : ashleyd
Sample : DFTPP
Misc : op75027,e2p1541
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 17:37:51 2014
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP2P.M
Quant Title :
QLast Update : Thu May 29 09:05:38 2014
Response via : Initial Calibration



(1) Pentachlorophenol

2.342min (-0.010) 35.97ppb

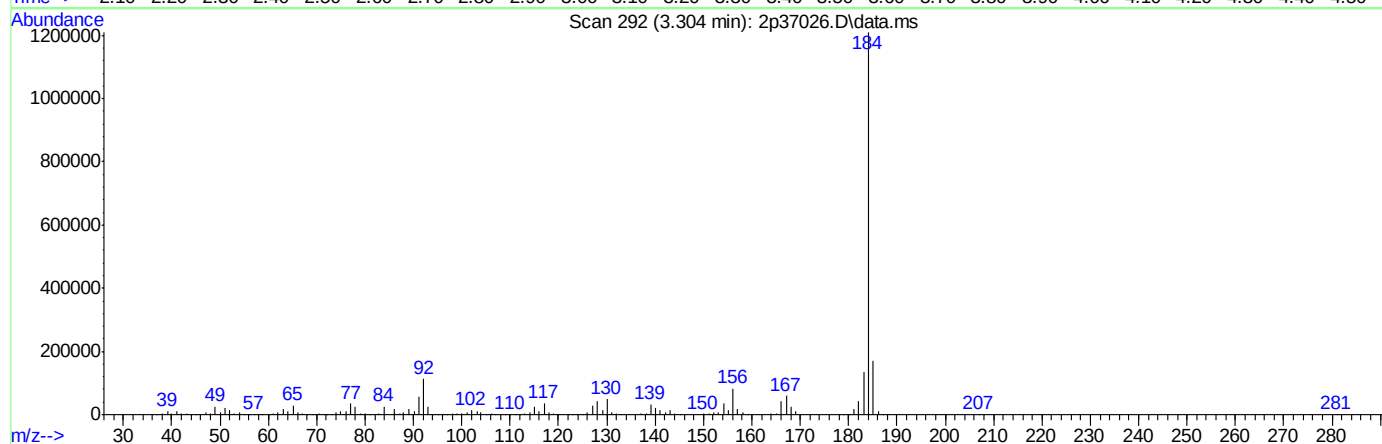
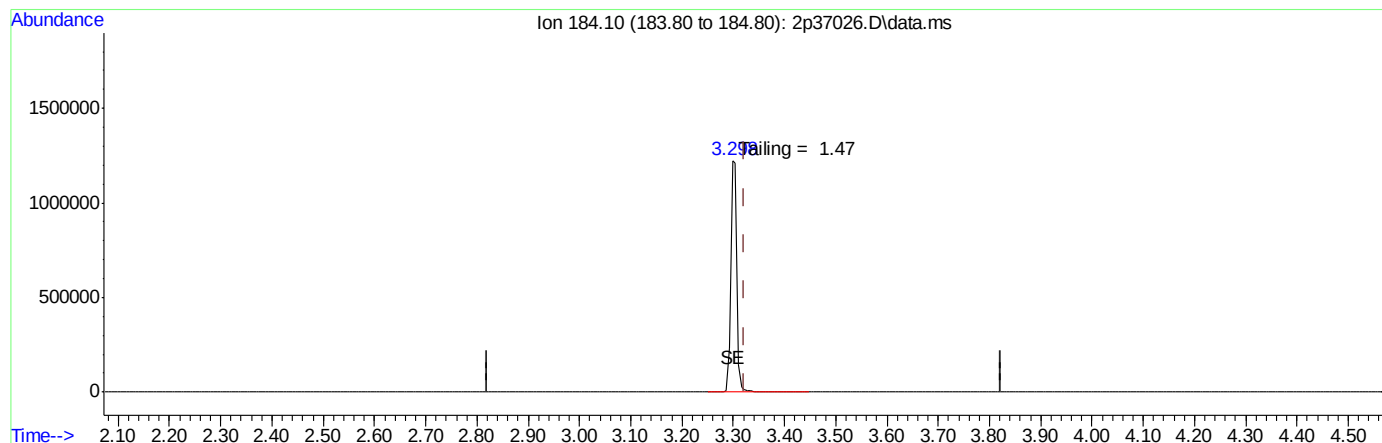
response 1710012

Ion	Exp%	Act%
265.80	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1541\
Data File : 2p37026.D
Acq On : 29 May 2014 5:34 pm
Operator : ashleyd
Sample : DFTPP
Misc : op75027,e2p1541
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 17:37:51 2014
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP2P.M
Quant Title :
QLast Update : Thu May 29 09:05:38 2014
Response via : Initial Calibration



TIC: 2p37026.D\data.ms

(2) Benzidine

3.304min (-0.018) 44.86ppb

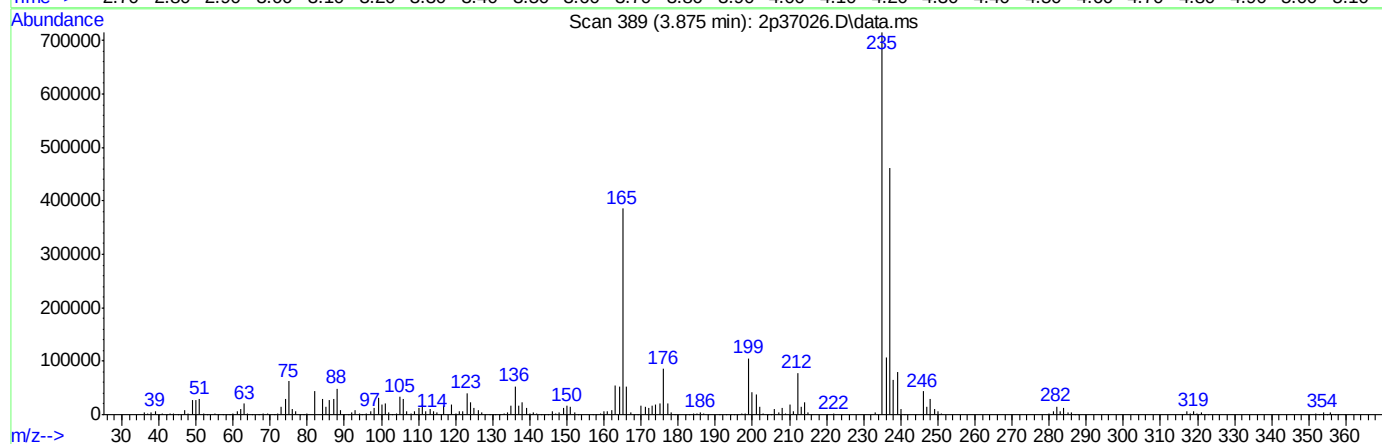
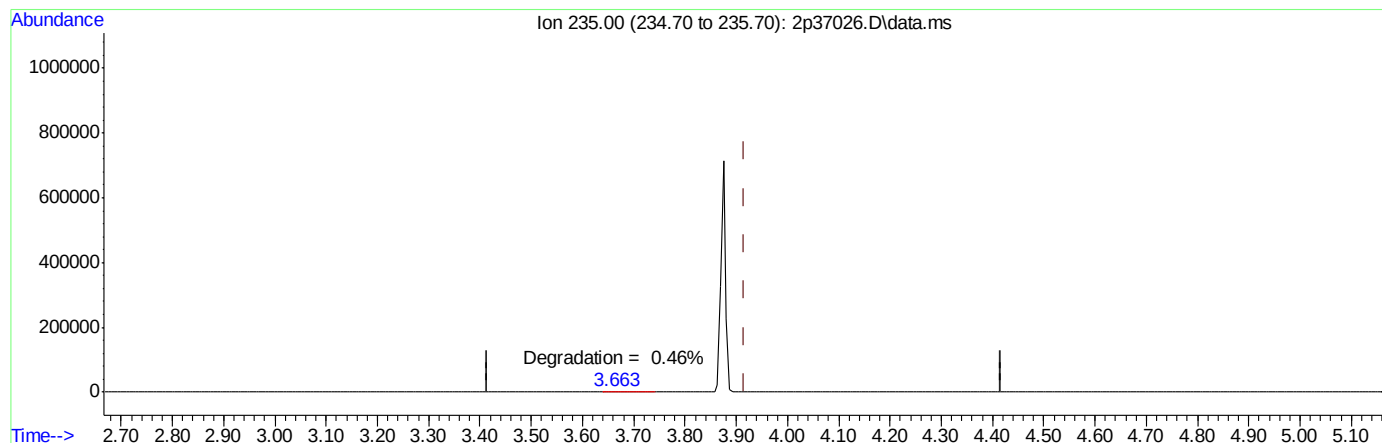
response 10140048

Ion	Exp%	Act%
184.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1541\
Data File : 2p37026.D
Acq On : 29 May 2014 5:34 pm
Operator : ashleyd
Sample : DFTPP
Misc : op75027,e2p1541
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 17:37:51 2014
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP2P.M
Quant Title :
QLast Update : Thu May 29 09:05:38 2014
Response via : Initial Calibration



TIC: 2p37026.D\data.ms

(3) PP-DDT

3.877min (-0.039) 48.75ppb

response 4586575

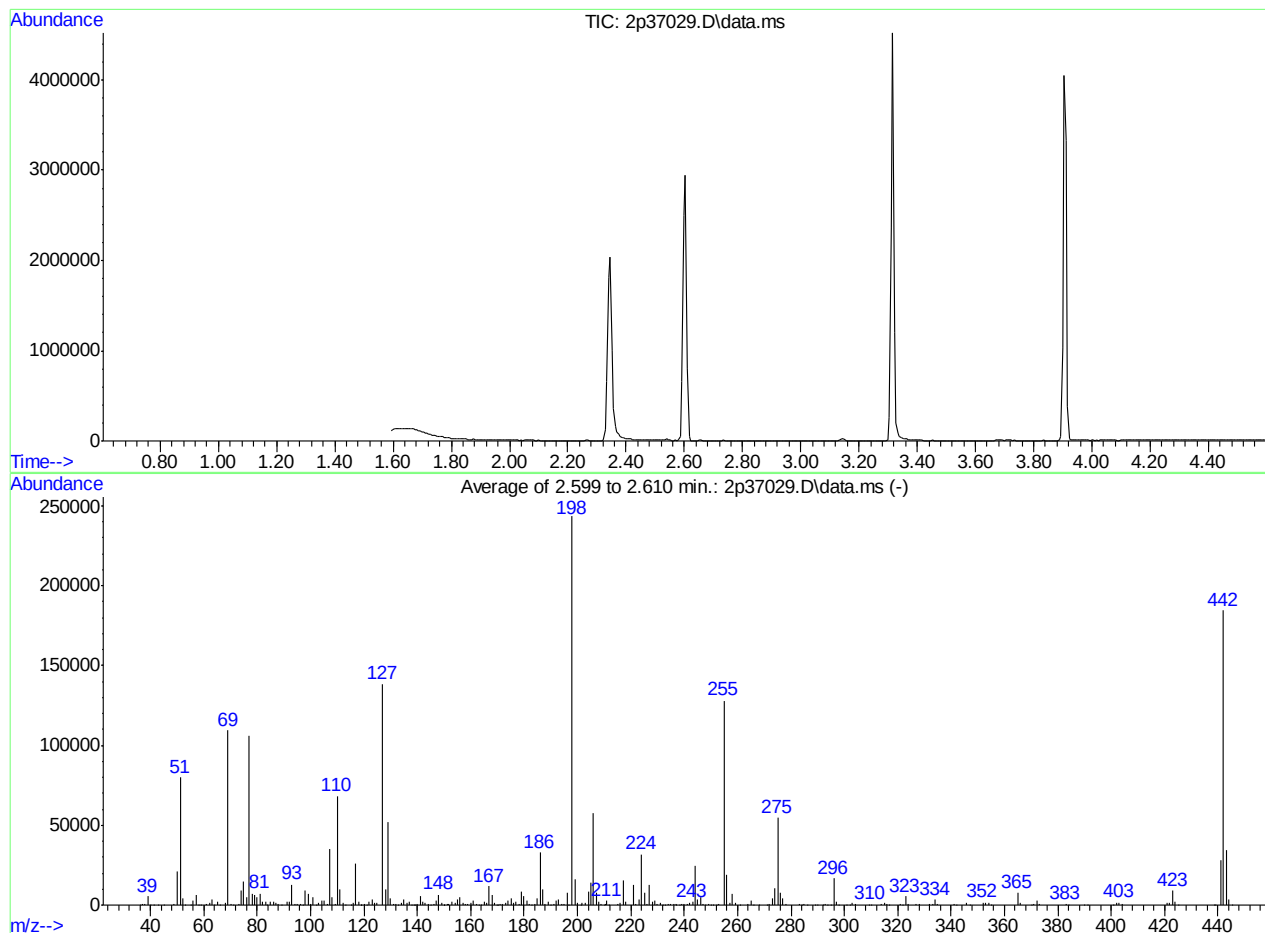
Ion	Exp%	Act%
235.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

DFTPP

Data File : C:\msdchem\1\DATA\2P1542\2p37029.D
 Acq On : 30 May 2014 8:40 am
 Sample : DFTPP
 Misc : op75027,e2p1542
 MS Integration Params: events.e

Vial: 1
 Operator: harpreek
 Inst : MS2P
 Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\DFTPP2P.M (ChemStation Integrator)
 Title :



AutoFind: Scans 172, 173, 174; Background Corrected with Scan 167

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	32.9	79944	PASS
68	69	0.00	2	1.6	1763	PASS
69	198	0.00	100	44.9	109283	PASS
70	69	0.00	2	0.5	526	PASS
127	198	40	60	57.0	138573	PASS
197	198	0.00	1	0.1	177	PASS
198	198	100	100	100.0	243312	PASS
199	198	5	9	6.7	16320	PASS
275	198	10	30	22.4	54461	PASS
365	198	1	100	3.1	7535	PASS
441	443	0.01	100	81.3	28245	PASS
442	198	40	100	75.8	184352	PASS
443	442	17	23	18.8	34723	PASS

Average of 2.599 to 2.610 min.: 2p37029.D\data.ms

DFTPP

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.95	133	52.00	4120	65.05	1836	78.05	7070
36.95	435	53.05	181	66.00	90	79.00	6623
38.00	823	55.00	258	68.10	1763	80.00	5100
39.00	5489	56.00	2617	69.00	109283	81.00	7385
40.00	191	57.00	6653	70.10	526	82.00	1831
41.05	86	58.00	302	71.10	86	83.00	1856
43.00	81	59.00	83	73.00	643	83.80	92
45.00	242	61.00	968	74.00	9212	85.00	1789
48.95	482	62.00	1120	75.00	15055	86.00	2149
50.00	21176	63.00	3309	76.05	5108	86.95	1113
51.10	79944	64.00	338	77.05	105677	87.90	571

Average of 2.599 to 2.610 min.: 2p37029.D\data.ms

DFTPP

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
89.00	107	101.00	4591	112.10	1303	123.00	3364
91.00	1798	102.00	128	113.00	318	124.00	1581
92.00	1822	102.95	1511	115.00	126	124.95	1469
93.00	12915	104.00	2704	116.00	1618	127.00	138573
94.00	812	105.00	2642	117.00	26031	128.00	9630
94.95	533	106.10	825	118.00	2341	129.00	51870
96.05	752	107.00	35111	118.90	230	130.00	4206
97.05	62	108.00	5174	119.10	87	131.00	968
98.00	9228	109.05	1046	120.00	386	132.00	558
99.00	7289	110.00	68179	120.85	205	132.95	251
100.00	767	111.00	10128	122.00	2226	134.00	1391

Average of 2.599 to 2.610 min.: 2p37029.D\data.ms

DFTPP

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
135.00	3552	145.00	336	155.00	3283	166.00	1781
136.00	1615	146.00	1049	156.00	4585	166.95	11638
137.00	2019	147.00	2696	157.00	1178	168.00	6390
137.85	363	148.00	6649	158.00	1030	169.00	1147
138.80	131	149.00	1455	158.90	741	169.90	111
139.10	129	149.90	195	160.00	1642	170.15	310
140.00	516	150.10	165	161.05	2711	171.00	447
141.00	5404	151.05	678	162.00	927	172.00	977
142.00	2175	151.65	665	162.85	206	172.95	1444
143.00	1292	153.00	1816	164.00	308	174.00	2566
144.00	391	154.00	1531	164.95	1923	175.00	4390

Average of 2.599 to 2.610 min.: 2p37029.D\data.ms

DFTPP

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
176.00	1570	187.00	9536	198.00	243312	209.00	522
177.00	1986	188.00	674	199.00	16320	210.00	211
178.00	757	189.00	1881	200.00	1562	210.40	541
179.00	8797	189.95	261	201.20	108	211.00	2579
180.00	5871	191.00	896	201.50	1288	211.80	210
181.05	2905	192.00	2899	203.00	1500	215.00	548
182.05	451	193.00	3219	204.00	8684	216.00	1184
182.90	287	194.00	730	205.00	14070	217.00	15474
184.00	494	195.00	422	206.00	57747	218.00	1934
185.00	4314	196.00	7763	207.00	7473	221.00	12702
186.00	32816	196.80	177	208.00	1822	221.70	1004

Average of 2.599 to 2.610 min.: 2p37029.D\data.ms

DFTPP

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
223.00	3519	233.95	858	244.00	24776	256.00	18814
224.00	31770	234.95	860	245.00	3443	257.00	1458
225.00	7940	236.00	685	246.00	4785	258.00	7094
226.00	806	236.80	140	246.95	1040	259.00	1136

227.00	12572	237.05	954	247.95	236	260.90	104
228.00	1924	238.00	90	248.95	911	263.80	392
229.00	2700	238.95	466	249.90	85	265.00	2625
229.95	390	240.00	442	250.95	199	265.80	135
231.00	1281	241.00	753	251.90	176	267.85	228
232.00	185	242.00	1775	252.95	605	271.00	141
232.90	133	243.05	1859	255.00	127776	272.00	419

Average of 2.599 to 2.610 min.: 2p37029.D\data.ms
DFTPP

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
273.00	4136	290.00	125	304.00	605	327.00	1067
274.00	10640	292.00	160	309.10	93	328.00	456
275.00	54461	292.95	1007	309.90	108	332.00	420
276.00	7401	293.80	220	314.00	718	333.00	516
277.00	4073	295.10	158	315.00	1611	334.00	3431
278.00	824	296.00	16618	316.00	909	335.00	887
282.95	516	297.00	2166	316.90	95	340.95	623
284.00	202	297.90	201	321.05	434	342.10	92
285.00	877	300.90	101	322.00	141	345.90	1233
285.90	104	301.95	267	323.00	5517	346.90	102
288.90	114	303.05	1565	324.00	929	352.00	1507

Average of 2.599 to 2.610 min.: 2p37029.D\data.ms
DFTPP

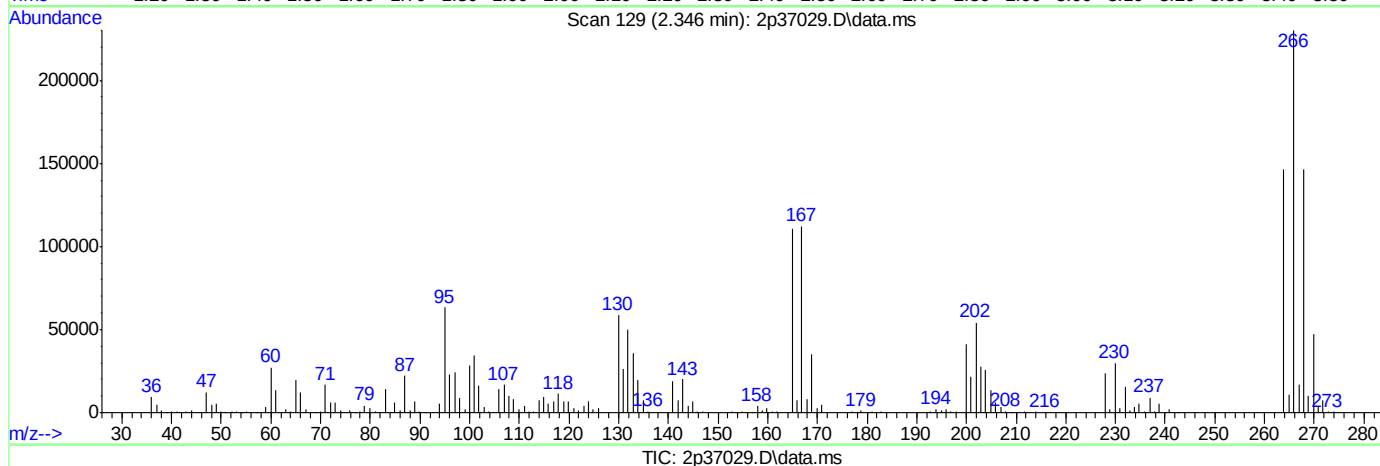
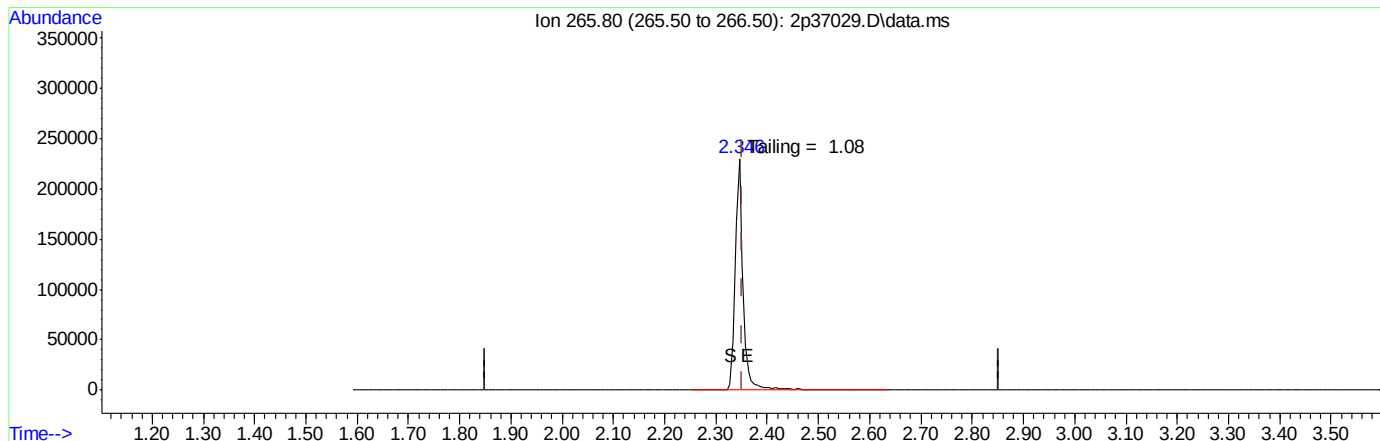
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
352.95	1265	389.90	335	438.50	110		
354.00	1630	391.00	236	439.20	176		
355.05	248	400.80	113	441.00	28245		
365.00	7535	402.00	1265	442.00	184352		
366.00	1280	403.00	1622	443.00	34723		
370.00	115	404.00	565	444.00	3188		
370.95	535	421.00	1470	445.10	106		
372.00	3162	421.95	1115				
373.00	700	423.05	9086				
383.00	649	424.00	1864				
384.00	183	425.10	99				

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1542\
Data File : 2p37029.D
Acq On : 30 May 2014 8:40 am
Operator : harpreek
Sample : DFTPP
Misc : op75027,e2p1542
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 30 08:44:47 2014
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP2P.M
Quant Title :
QLast Update : Thu May 29 09:05:38 2014
Response via : Initial Calibration



(1) Pentachlorophenol

2.347min (-0.005) 49.65ppb

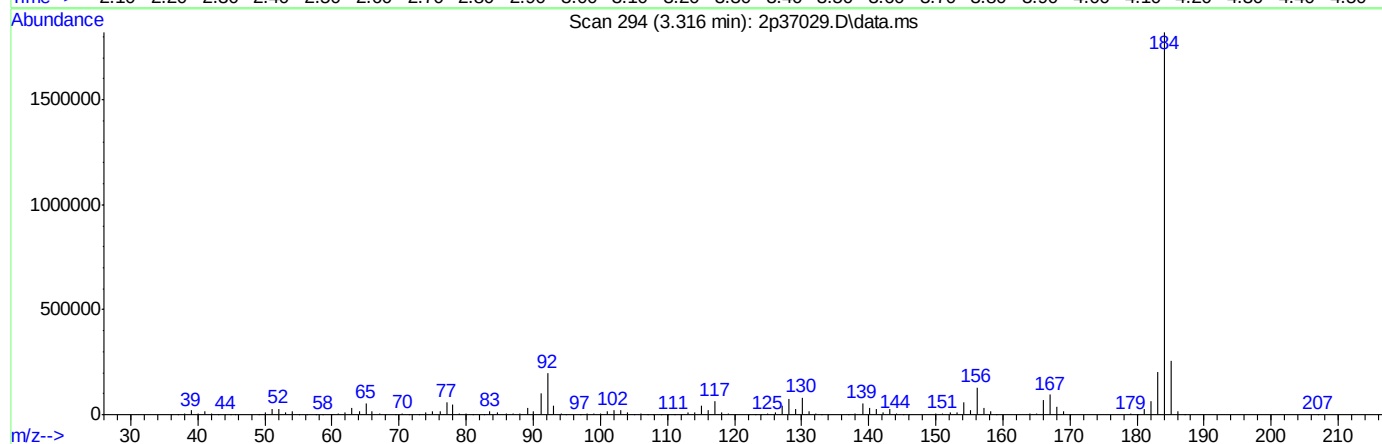
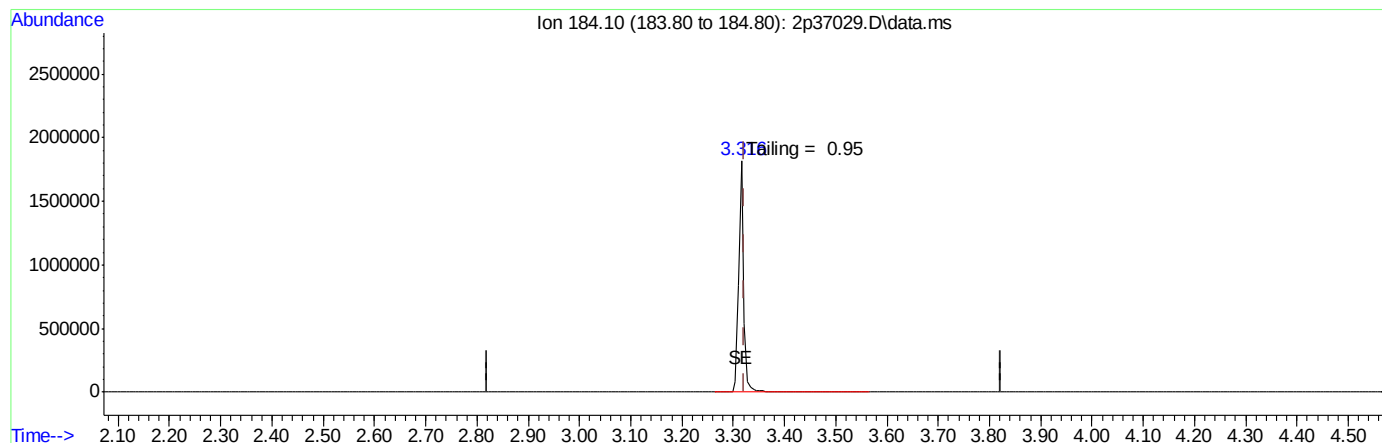
response 2360207

Ion	Exp%	Act%
265.80	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1542\
Data File : 2p37029.D
Acq On : 30 May 2014 8:40 am
Operator : harpreek
Sample : DFTPP
Misc : op75027,e2p1542
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 30 08:44:47 2014
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP2P.M
Quant Title :
QLast Update : Thu May 29 09:05:38 2014
Response via : Initial Calibration



TIC: 2p37029.D\data.ms

(2) Benzidine

3.318min (-0.004) 53.97ppb

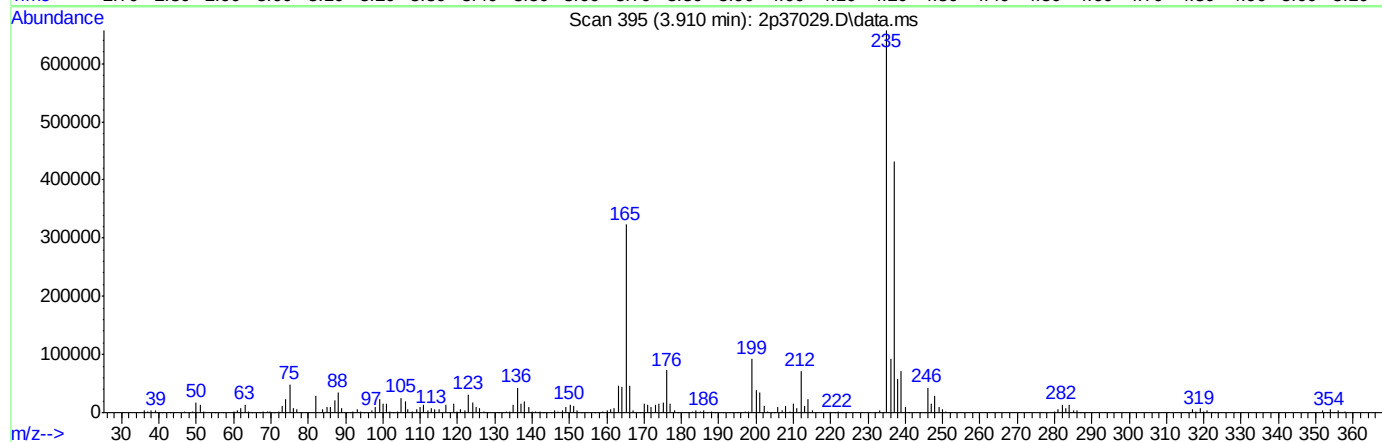
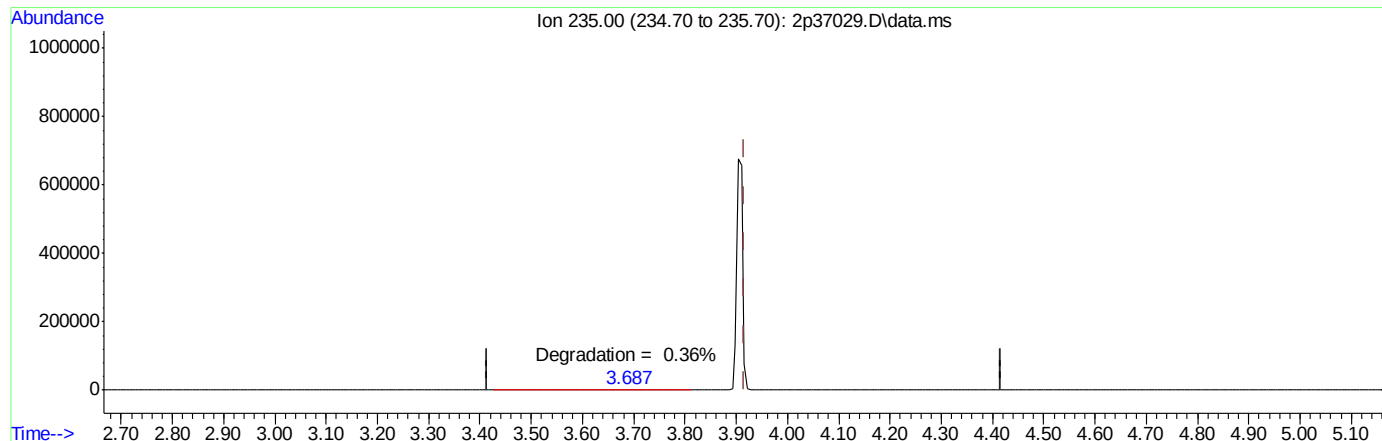
response 12197290

Ion	Exp%	Act%
184.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1542\
Data File : 2p37029.D
Acq On : 30 May 2014 8:40 am
Operator : harpreek
Sample : DFTPP
Misc : op75027,e2p1542
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 30 08:44:47 2014
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP2P.M
Quant Title :
QLast Update : Thu May 29 09:05:38 2014
Response via : Initial Calibration



TIC: 2p37029.D\data.ms

(3) PP-DDT

3.910min (-0.007) 58.12ppb

response 5468229

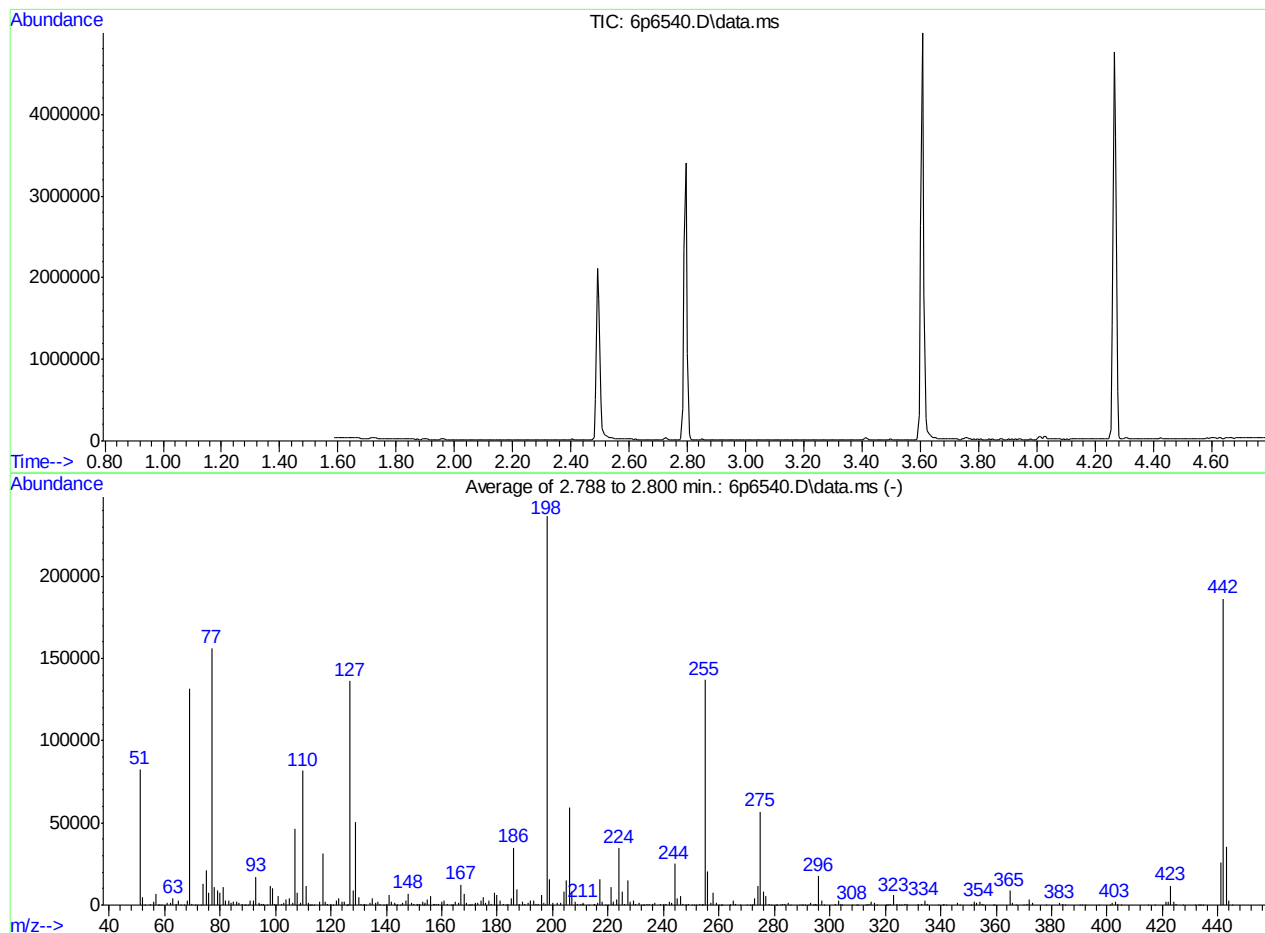
Ion	Exp%	Act%
235.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

DFTPP

Data File : C:\msdchem\1\DATA\6p276\6p6540.D
Acq On : 26 Apr 2014 10:29 am
Sample : dftpp
Misc : op73158,e6p276
MS Integration Params: events.e

Vial: 1
Operator: ashleyd
Inst : MS6P
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M (ChemStation Integrator)
Title : zebron ZB-5msi 30mx0.25mmx0.25um



AutoFind: Scans 211, 212, 213; Background Corrected with Scan 207

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	35.0	82787	PASS
68	69	0.00	2	1.9	2528	PASS
69	198	0.00	100	55.8	131826	PASS
70	69	0.00	2	0.6	773	PASS
127	198	40	60	57.7	136277	PASS
197	198	0.00	1	0.7	1570	PASS
198	198	100	100	100.0	236363	PASS
199	198	5	9	6.8	16015	PASS
275	198	10	30	24.0	56792	PASS
365	198	1	100	3.7	8686	PASS
441	443	0.01	100	72.4	25906	PASS
442	198	40	100	78.8	186251	PASS
443	442	17	23	19.2	35779	PASS

Average of 2.788 to 2.800 min.: 6p6540.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
51.05	82787	63.00	4448	74.00	12957	84.95	2300
52.05	4791	64.00	699	75.00	21403	85.95	2325
53.05	348	65.00	2496	76.00	7184	86.95	1501
54.90	527	65.90	96	77.00	156479	87.95	667
55.95	2379	67.00	204	78.00	10992	88.90	35
57.00	7104	68.05	2528	79.00	8804	89.20	101
57.80	132	69.00	131826	80.00	7607	90.10	75
58.05	260	69.95	773	81.00	10914	90.95	2602
58.80	68	71.00	132	81.95	3012	91.95	2655
61.00	1531	71.90	67	83.00	2990	93.00	17105
62.05	1718	72.90	217	83.95	1089	94.00	1327

Average of 2.788 to 2.800 min.: 6p6540.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
94.20	111	102.95	1636	112.20	143	123.00	3862
94.95	472	104.00	3652	112.80	87	123.90	1977
95.20	90	105.00	3944	113.00	326	124.95	1918
95.90	497	106.10	1094	113.80	120	125.70	167
96.80	97	107.00	46337	115.95	2229	125.90	256
98.00	11747	108.00	7307	117.00	31373	126.20	263
99.00	10193	108.80	153	117.95	2118	127.00	136277
99.95	909	109.05	1349	118.95	400	127.95	9161
100.20	69	110.00	81720	120.05	709	129.00	50791
100.95	5745	111.00	11658	120.90	104	130.00	4663
102.00	433	112.00	1361	121.90	2537	131.00	1005

Average of 2.788 to 2.800 min.: 6p6540.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
131.90	235	142.00	2185	151.00	310	157.90	998
132.10	425	142.90	1304	151.15	461	158.95	860
132.50	71	143.10	246	151.80	443	159.95	1944
133.95	1446	143.80	141	152.10	113	161.00	2900
135.00	4056	144.00	144	153.00	2033	162.00	797
136.00	1643	144.85	253	153.70	75	163.15	354
137.05	2270	146.00	1330	154.05	1453	163.70	108
137.90	543	147.05	2920	154.90	3098	164.15	239
139.00	355	148.00	7009	156.05	5401	164.90	2251
140.15	671	149.00	1668	157.05	534	165.95	1711
141.05	6129	149.95	368	157.30	442	167.00	12528

Average of 2.788 to 2.800 min.: 6p6540.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
168.00	6689	177.00	2433	188.00	1024	198.00	236363
169.10	1194	178.00	428	189.00	2226	199.00	16015
169.90	181	179.00	7801	189.95	609	199.95	1686
170.20	139	180.00	6312	191.10	1181	201.50	1086
170.95	496	181.00	2723	192.00	2595	202.95	1551
171.70	131	182.05	539	193.00	3068	204.05	8384
172.00	1230	182.90	239	193.95	653	205.00	15363
172.95	1627	183.95	551	194.95	476	206.05	59259
174.00	2739	185.00	4303	196.00	5995	207.05	7925
175.10	5126	186.05	34791	196.80	1570	208.00	1936
175.95	1476	187.00	9396	197.10	270	209.05	888

Average of 2.788 to 2.800 min.: 6p6540.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
210.05	677	221.05	11251	231.05	1213	241.95	1845
210.80	914	221.70	827	231.90	82	243.00	1653
211.10	1649	222.00	1743	232.80	95	244.05	24924
213.00	191	222.95	3709	233.00	133	245.05	3860

214.90	173	224.05	34528	234.00	649	246.00	5441
215.05	750	225.05	8061	235.00	776	246.95	930
216.05	1130	226.05	811	235.85	792	247.95	265
217.00	15416	227.00	14934	237.00	1215	248.30	89
218.00	2041	228.00	1954	238.90	695	248.95	968
219.00	309	229.00	2718	240.00	408	250.10	85
220.00	93	230.00	516	240.95	532	250.90	252

Average of 2.788 to 2.800 min.: 6p6540.D\data.ms
dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
251.90	228	260.80	179	273.00	3856	283.95	661
252.85	585	261.00	119	274.00	11537	285.00	1185
253.70	362	263.80	161	275.00	56792	285.90	323
254.00	290	264.05	269	276.00	7949	288.85	171
254.20	619	265.00	2977	277.00	5151	289.80	82
255.00	136784	266.10	387	277.95	962	290.10	67
256.00	20511	267.75	194	278.90	75	291.10	80
257.00	1489	270.10	111	280.70	73	292.05	199
258.00	7471	271.10	113	281.05	252	293.00	1104
258.95	1144	271.90	344	282.20	135	294.05	348
259.90	97	272.15	338	282.95	685	294.70	163

Average of 2.788 to 2.800 min.: 6p6540.D\data.ms
dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
294.85	394	310.10	121	323.00	5937	340.90	365
295.20	144	312.80	80	324.05	703	341.10	523
296.00	17633	313.30	82	325.10	93	341.90	71
297.00	2734	314.05	645	325.80	90	345.90	1652
298.10	107	315.00	1844	326.95	908	346.95	271
302.05	567	316.10	1310	328.00	673	351.00	114
303.00	2615	317.05	218	331.95	738	352.00	2164
304.00	570	320.15	145	333.00	709	353.00	1469
304.20	139	320.70	112	334.10	3092	354.05	2253
308.10	188	320.95	243	335.05	740	354.95	504
309.80	73	321.95	483	339.10	79	355.20	85

Average of 2.788 to 2.800 min.: 6p6540.D\data.ms
dftpp

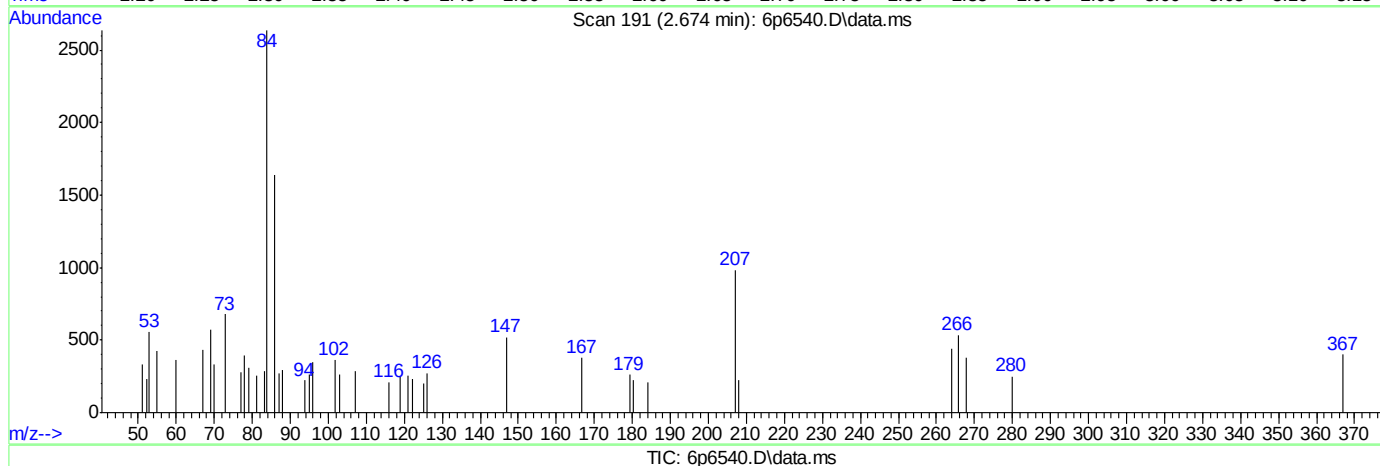
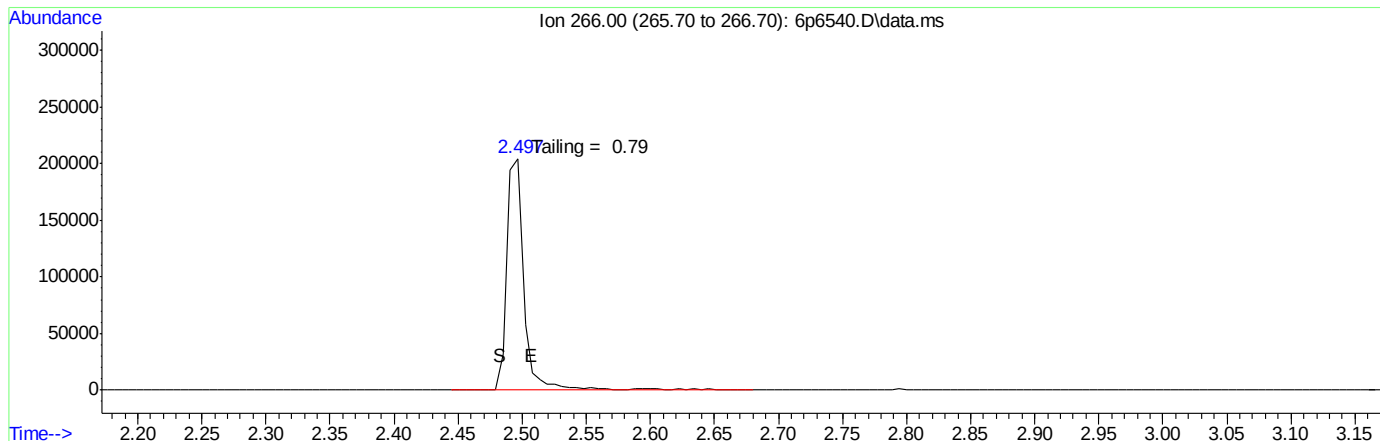
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
359.00	68	384.05	563	414.90	69	433.90	86
359.20	103	384.70	67	417.00	97	434.50	117
365.00	8686	390.10	286	421.05	2180	441.00	25906
366.00	1121	391.00	98	422.00	2325	442.00	186251
366.90	71	392.00	217	423.05	11682	443.00	35779
369.80	106	397.10	74	424.05	2384	444.00	2502
371.05	775	400.90	134	425.05	500	444.90	335
372.05	3674	401.95	1439	427.50	85		
373.05	1123	403.00	1903	431.60	70		
377.90	68	404.05	806	433.00	105		
383.00	1223	405.10	142	433.50	110		

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\6p276\
Data File : 6p6540.D
Acq On : 26 Apr 2014 10:29 am
Operator : ashleyd
Sample : dftpp
Misc : op73158,e6p276
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 26 10:34:43 2014
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M
Quant Title : zebron ZB-5msi 30mx0.25mmx0.25um
QLast Update : Mon Feb 24 10:11:07 2014
Response via : Initial Calibration



(1) Pentachlorophenol

2.672min (-2.672) 0.00

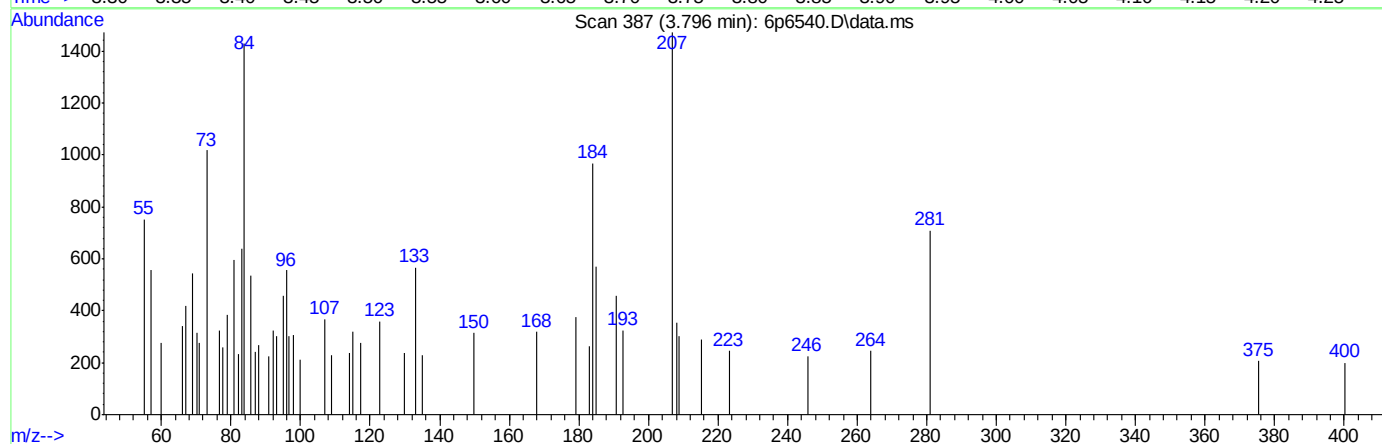
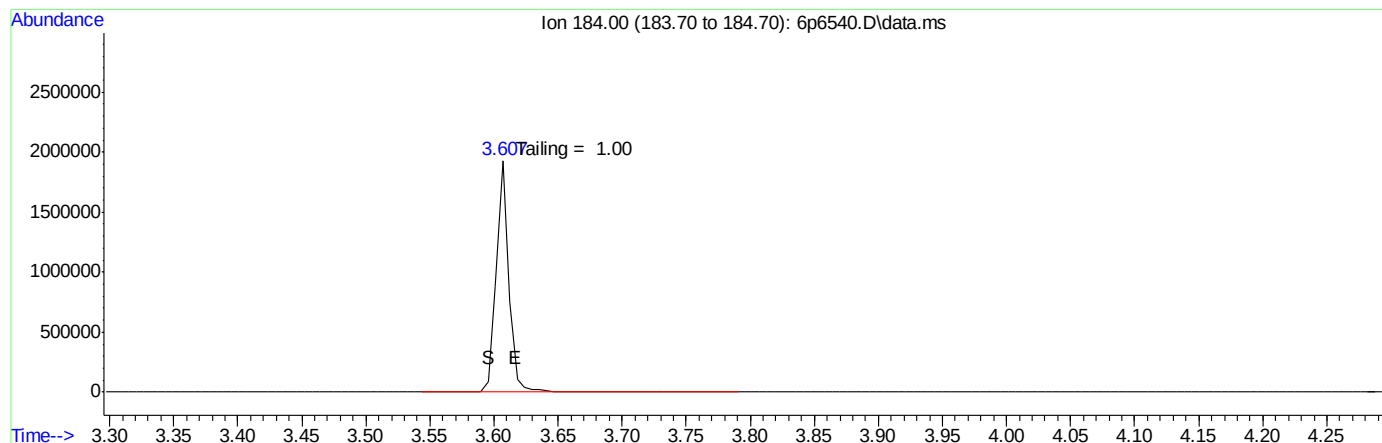
response 0

Ion	Exp%	Act%
266.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\6p276\
Data File : 6p6540.D
Acq On : 26 Apr 2014 10:29 am
Operator : ashleyd
Sample : dftpp
Misc : op73158,e6p276
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 26 10:34:43 2014
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M
Quant Title : zebron ZB-5msi 30mx0.25mmx0.25um
QLast Update : Mon Feb 24 10:11:07 2014
Response via : Initial Calibration



(2) Benzidine

3.796min (-3.796) 0.00

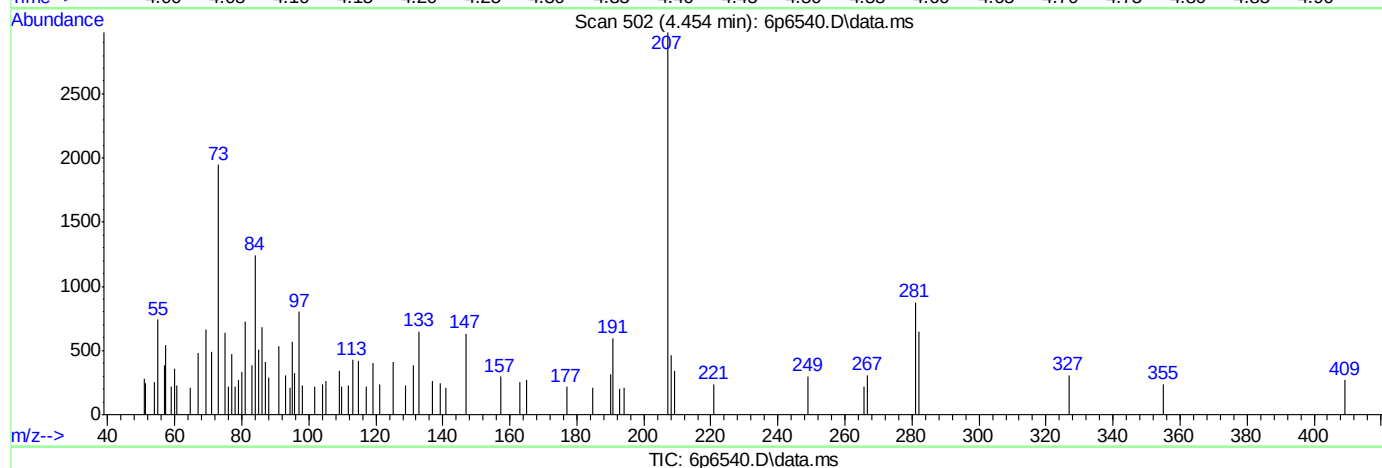
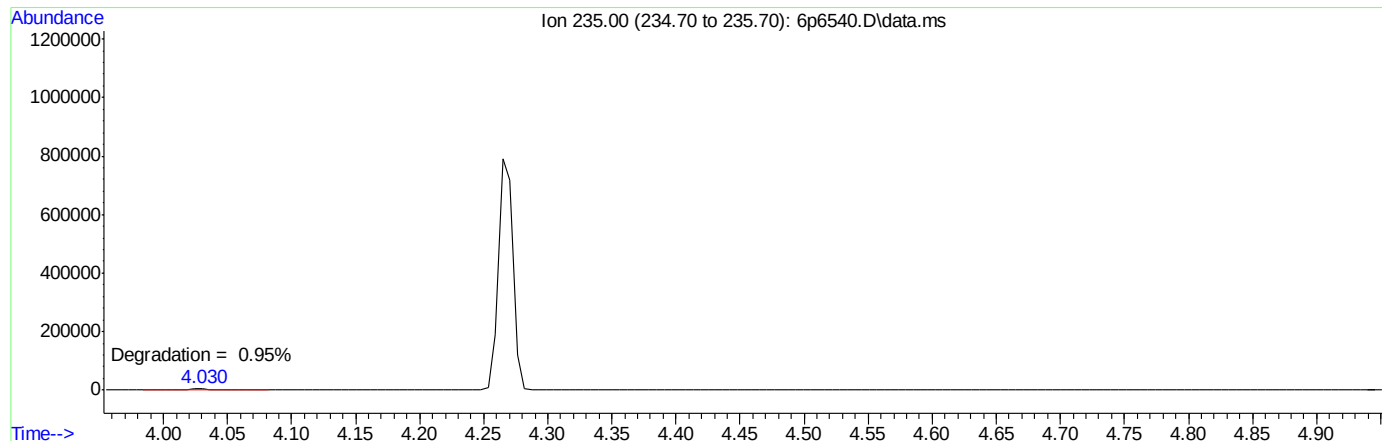
response 0

Ion	Exp%	Act%
184.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\6p276\
Data File : 6p6540.D
Acq On : 26 Apr 2014 10:29 am
Operator : ashleyd
Sample : dftpp
Misc : op73158,e6p276
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 26 10:34:43 2014
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M
Quant Title : zebron ZB-5msi 30mx0.25mmx0.25um
QLast Update : Mon Feb 24 10:11:07 2014
Response via : Initial Calibration



(3) PP-DDT

4.454min (-4.454) 0.00

response 0

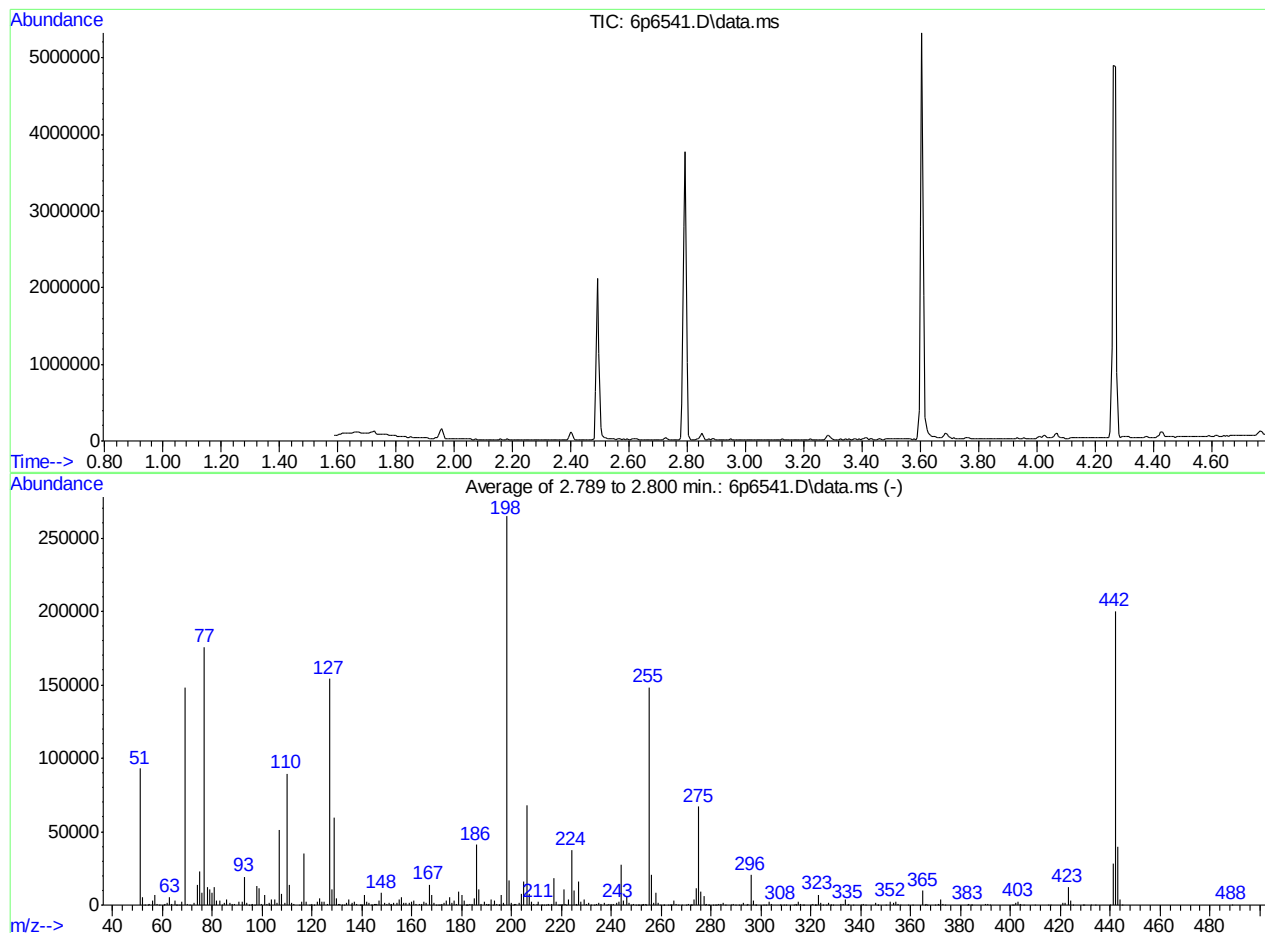
Ion	Exp%	Act%
235.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

DFTPP

Data File : C:\msdchem\1\DATA\e6p277\6p6541.D
 Acq On : 27 Apr 2014 12:39 pm
 Sample : dftpp
 Misc : op73158,e6p277
 MS Integration Params: events.e

Vial: 1
 Operator: ashleyd
 Inst : MS6P
 Multipl: 1.00

Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M (ChemStation Integrator)
 Title : zebron ZB-5msi 30mx0.25mmx0.25um



AutoFind: Scans 211, 212, 213; Background Corrected with Scan 207

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	35.2	93065	PASS
68	69	0.00	2	1.4	2108	PASS
69	198	0.00	100	56.1	148412	PASS
70	69	0.00	2	0.4	649	PASS
127	198	40	60	58.2	154037	PASS
197	198	0.00	1	0.6	1495	PASS
198	198	100	100	100.0	264677	PASS
199	198	5	9	6.3	16590	PASS
275	198	10	30	25.4	67109	PASS
365	198	1	100	3.7	9694	PASS
441	443	0.01	100	71.9	28597	PASS
442	198	40	100	75.7	200395	PASS
443	442	17	23	19.9	39795	PASS

Average of 2.789 to 2.800 min.: 6p6541.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
51.00	93065	62.00	1630	73.00	1510	83.95	84
52.00	5390	63.00	5473	74.00	14021	84.95	1656
53.05	295	64.00	928	75.00	23087	85.95	4154
54.20	120	65.00	2899	76.05	8232	86.95	1511
55.00	534	65.80	116	77.00	175840	87.90	776
56.00	3014	66.15	287	78.00	11953	88.95	632
57.00	7224	67.05	372	79.00	10794	90.95	2341
57.90	452	67.95	2108	80.00	8398	91.95	2627
58.95	149	69.00	148412	81.00	12426	93.00	19382
60.85	195	69.95	649	81.95	3201	93.95	1368
61.10	830	71.10	103	82.95	3384	94.70	337

Average of 2.789 to 2.800 min.: 6p6541.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
95.80	128	105.00	3554	117.00	35419	127.00	154037
96.00	592	106.05	1212	117.90	2697	127.95	11057
96.90	371	107.00	50882	118.90	63	128.95	59778
98.00	13144	108.00	7302	120.00	1052	130.00	4929
99.00	11489	109.00	1335	121.00	11	130.90	437
99.95	1058	109.95	89511	122.00	2609	131.05	837
101.00	6747	111.00	13542	122.95	4229	132.10	374
101.95	495	112.00	1721	123.70	172	132.90	115
102.80	192	112.95	502	124.00	2111	133.90	1408
103.05	1773	114.90	220	125.00	2483	135.00	4220
104.00	4104	116.00	2478	126.20	994	135.80	185

Average of 2.789 to 2.800 min.: 6p6541.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
136.05	1623	144.90	416	154.10	1800	165.00	2580
136.95	2338	145.75	432	155.00	3721	166.00	1653
137.95	420	146.05	1124	156.10	5317	167.00	14050
139.10	267	146.95	3165	157.00	1523	168.00	6755
139.80	354	148.00	8073	157.90	1219	168.95	1278
140.10	252	149.05	1803	158.95	1185	169.95	395
140.95	7198	149.95	607	160.00	2429	170.50	128
142.00	2222	151.05	1410	160.95	2728	171.05	393
142.95	1473	151.40	84	161.90	793	171.95	917
143.90	200	152.05	517	162.95	428	173.05	1657
144.20	142	152.95	1672	164.05	514	174.00	2744

Average of 2.789 to 2.800 min.: 6p6541.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
175.05	5506	184.00	819	193.05	3192	201.20	433
176.10	1529	185.00	4754	193.95	802	201.50	1050
177.00	3231	186.00	40976	194.85	250	203.00	1476
178.00	941	187.00	11065	195.10	305	204.00	7877
179.00	9136	188.00	1059	196.00	6849	205.00	16106
180.00	6680	189.00	2660	196.60	238	206.05	67600
181.00	3415	190.00	497	197.00	1495	207.00	7964
181.80	74	190.70	165	198.00	264677	208.00	2164
182.00	373	191.05	1082	199.00	16590	208.95	1081
182.20	82	192.00	3579	200.00	1681	210.05	953
183.10	658	192.80	290	200.90	83	210.90	2202

Average of 2.789 to 2.800 min.: 6p6541.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
211.90	223	219.80	152	227.00	16420	237.90	285
212.20	179	220.10	242	228.00	2414	238.90	639
213.00	221	220.30	274	229.00	3769	239.90	649
213.85	237	221.05	10837	229.90	526	240.95	783

214.60	87	221.70	661	231.00	1276	242.05	1517
214.90	444	222.00	248	231.65	227	243.05	2023
215.95	1045	223.05	4095	233.10	236	244.05	27207
217.00	18578	224.05	37533	233.95	759	245.05	3211
218.00	2335	225.00	9997	234.90	1192	246.00	6007
218.90	157	225.90	1087	235.95	716	247.00	1403
219.10	129	226.10	259	237.05	1302	248.00	281

Average of 2.789 to 2.800 min.: 6p6541.D\data.ms
dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
248.85	1084	256.00	20730	265.00	3307	275.00	67109
249.70	146	256.95	1441	266.00	621	276.00	8978
250.80	103	258.00	8559	266.90	78	277.00	6316
251.05	226	258.95	1270	268.00	135	277.80	335
252.10	92	259.70	107	269.95	201	278.00	775
252.50	97	260.90	173	271.10	490	278.85	159
252.70	115	261.10	193	271.85	297	279.10	91
252.95	752	263.00	99	272.00	77	281.00	114
253.90	199	263.70	99	272.20	196	281.80	99
254.05	660	263.90	79	273.00	4208	282.10	179
255.00	148467	264.20	110	274.00	11136	283.05	724

Average of 2.789 to 2.800 min.: 6p6541.D\data.ms
dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
284.05	663	296.00	20404	309.95	215	321.90	195
285.00	1211	297.00	2833	313.05	253	322.20	121
285.80	92	297.70	80	313.90	257	323.00	7109
288.10	153	298.05	159	314.10	758	324.05	1216
289.00	549	301.05	253	314.95	2630	324.95	300
289.85	165	301.80	212	315.90	1089	325.95	152
291.00	86	303.05	2425	316.85	196	326.95	1379
292.00	375	304.10	860	317.10	218	327.90	403
292.90	1529	307.80	75	319.80	69	328.10	361
294.05	331	307.90	301	320.90	513	328.95	241
294.90	479	309.00	186	321.70	84	331.95	591

Average of 2.789 to 2.800 min.: 6p6541.D\data.ms
dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
332.95	614	349.80	76	366.80	101	390.00	575
334.00	4192	351.95	2669	369.90	145	390.95	430
334.70	99	353.05	1342	370.90	187	391.90	349
334.95	1004	353.95	2405	371.05	566	400.90	141
336.80	68	355.10	575	372.05	4217	401.20	181
340.10	108	356.00	155	373.00	1088	401.95	1859
341.00	979	359.10	236	374.00	132	403.05	2492
342.10	116	360.80	92	382.90	141	403.90	845
345.95	1459	365.00	9694	383.05	738	404.10	116
346.70	131	365.80	312	384.00	264	405.10	72
346.90	98	366.05	1108	384.80	72	409.90	98

Average of 2.789 to 2.800 min.: 6p6541.D\data.ms
dftpp

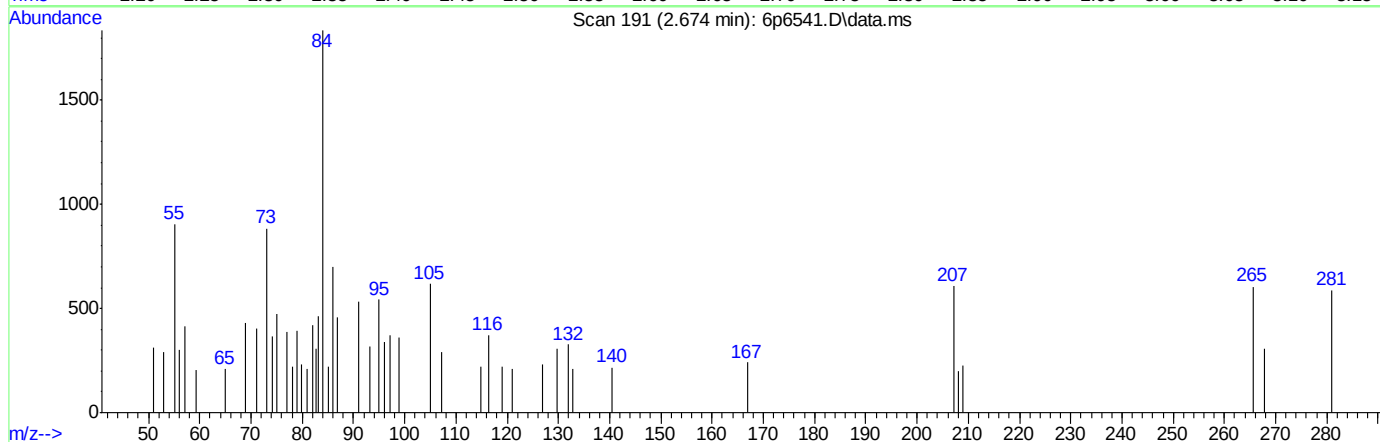
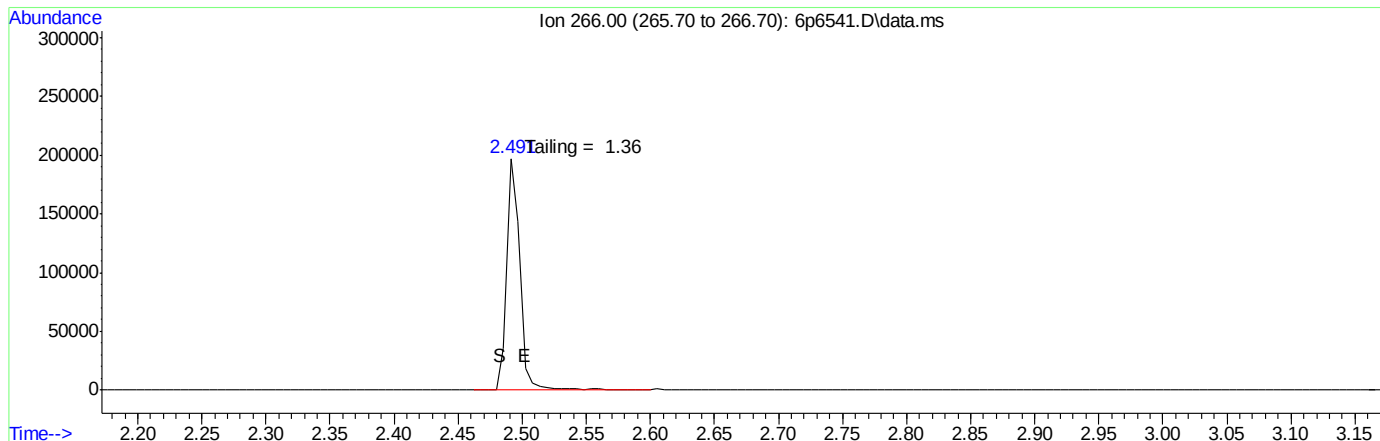
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
415.20	73	440.00	93				
415.90	67	441.05	28597				
420.95	1455	442.00	200395				
422.00	1931	443.00	39795				
423.00	12614	444.05	3597				
424.00	3025	444.90	102				
424.95	295	488.60	75				
429.10	98						
429.50	71						
432.10	88						
434.00	104						

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\6p277\
Data File : 6p6541.D
Acq On : 27 Apr 2014 12:39 pm
Operator : ashleyd
Sample : dftpp
Misc : op73158,e6p277
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 27 12:44:27 2014
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M
Quant Title : zebron ZB-5msi 30mx0.25mmx0.25um
QLast Update : Mon Feb 24 10:11:07 2014
Response via : Initial Calibration



(1) Pentachlorophenol

2.672min (-2.672) 0.00

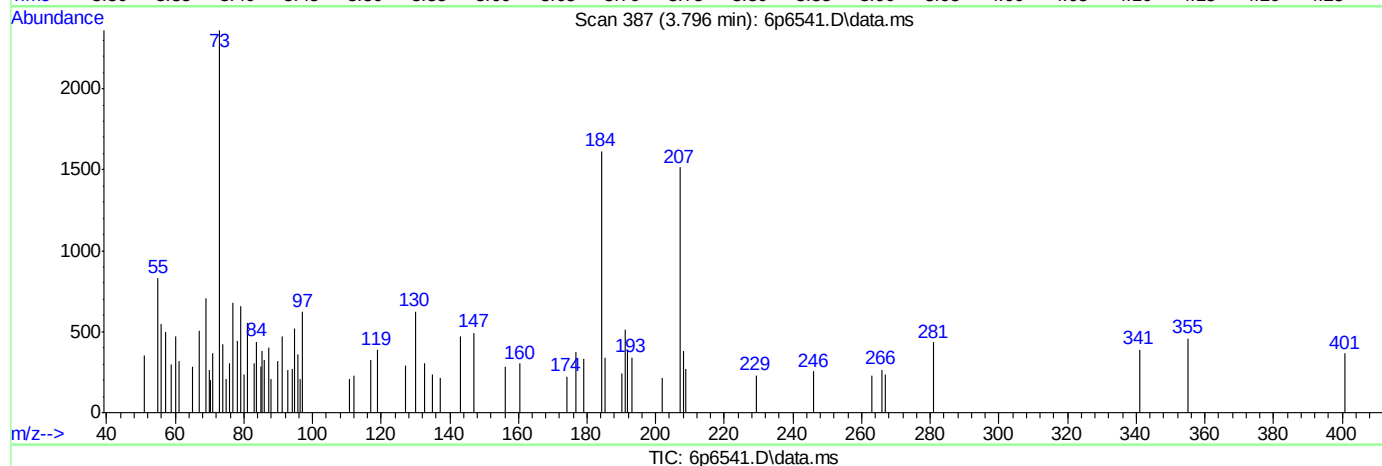
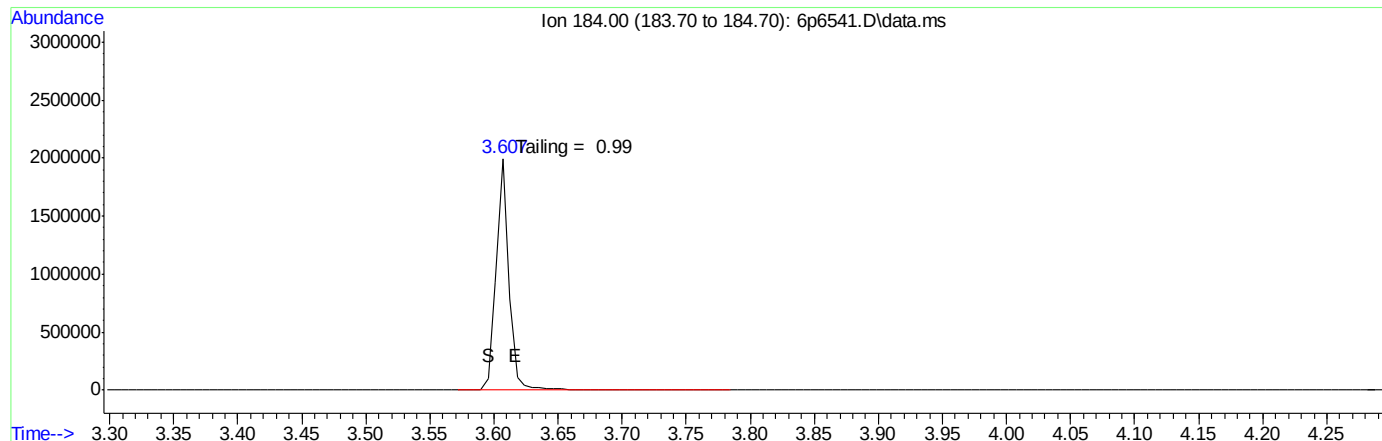
response 0

Ion	Exp%	Act%
266.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\6p277\
Data File : 6p6541.D
Acq On : 27 Apr 2014 12:39 pm
Operator : ashleyd
Sample : dftpp
Misc : op73158,e6p277
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 27 12:44:27 2014
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M
Quant Title : zebron ZB-5msi 30mx0.25mmx0.25um
QLast Update : Mon Feb 24 10:11:07 2014
Response via : Initial Calibration



(2) Benzidine

3.796min (-3.796) 0.00

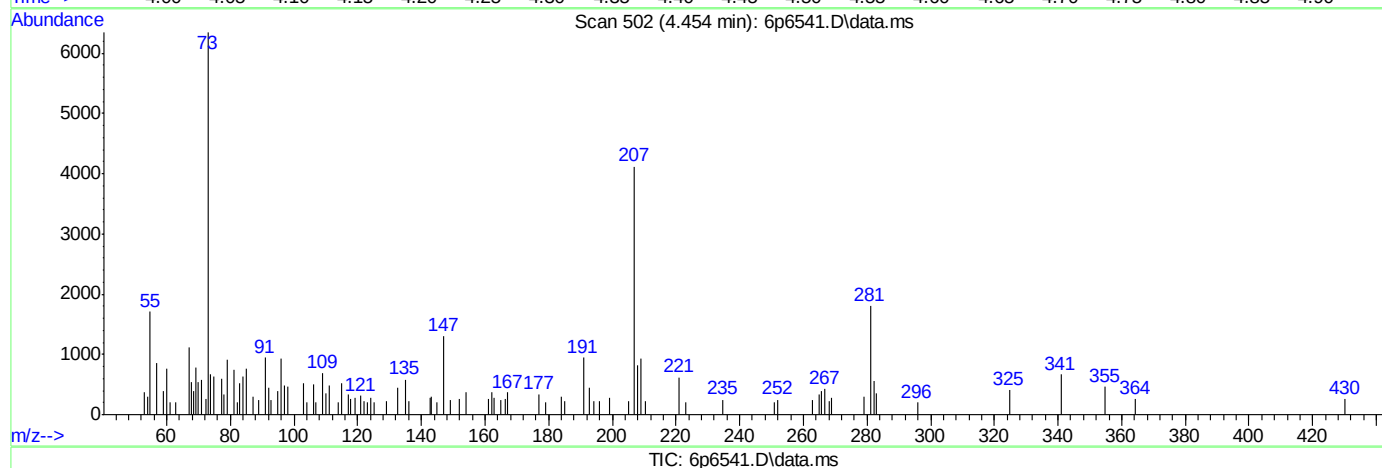
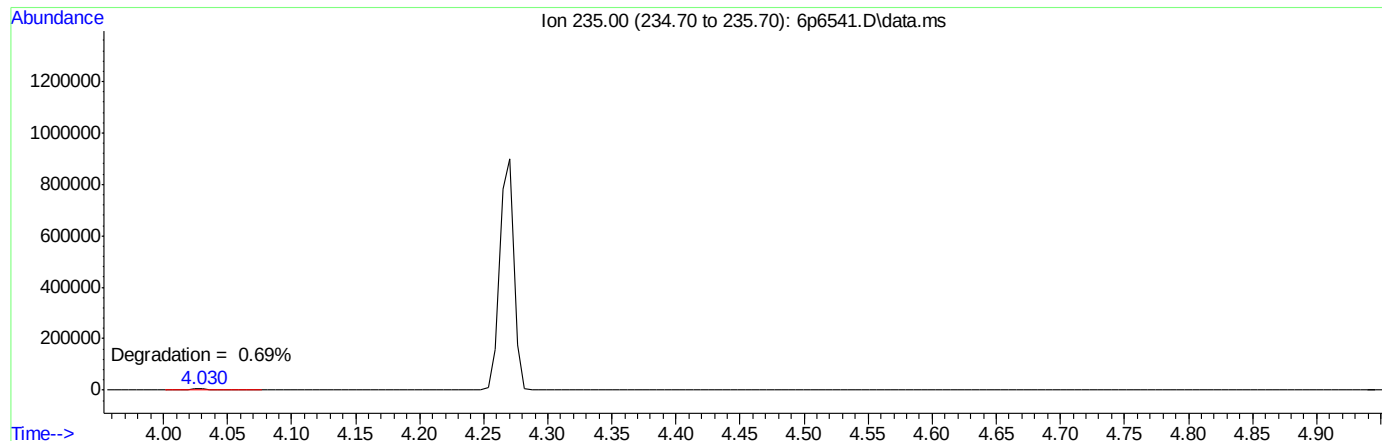
response 0

Ion	Exp%	Act%
184.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\6p277\
Data File : 6p6541.D
Acq On : 27 Apr 2014 12:39 pm
Operator : ashleyd
Sample : dftpp
Misc : op73158,e6p277
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 27 12:44:27 2014
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M
Quant Title : zebron ZB-5msi 30mx0.25mmx0.25um
QLast Update : Mon Feb 24 10:11:07 2014
Response via : Initial Calibration



(3) PP-DDT

4.454min (-4.454) 0.00

response 0

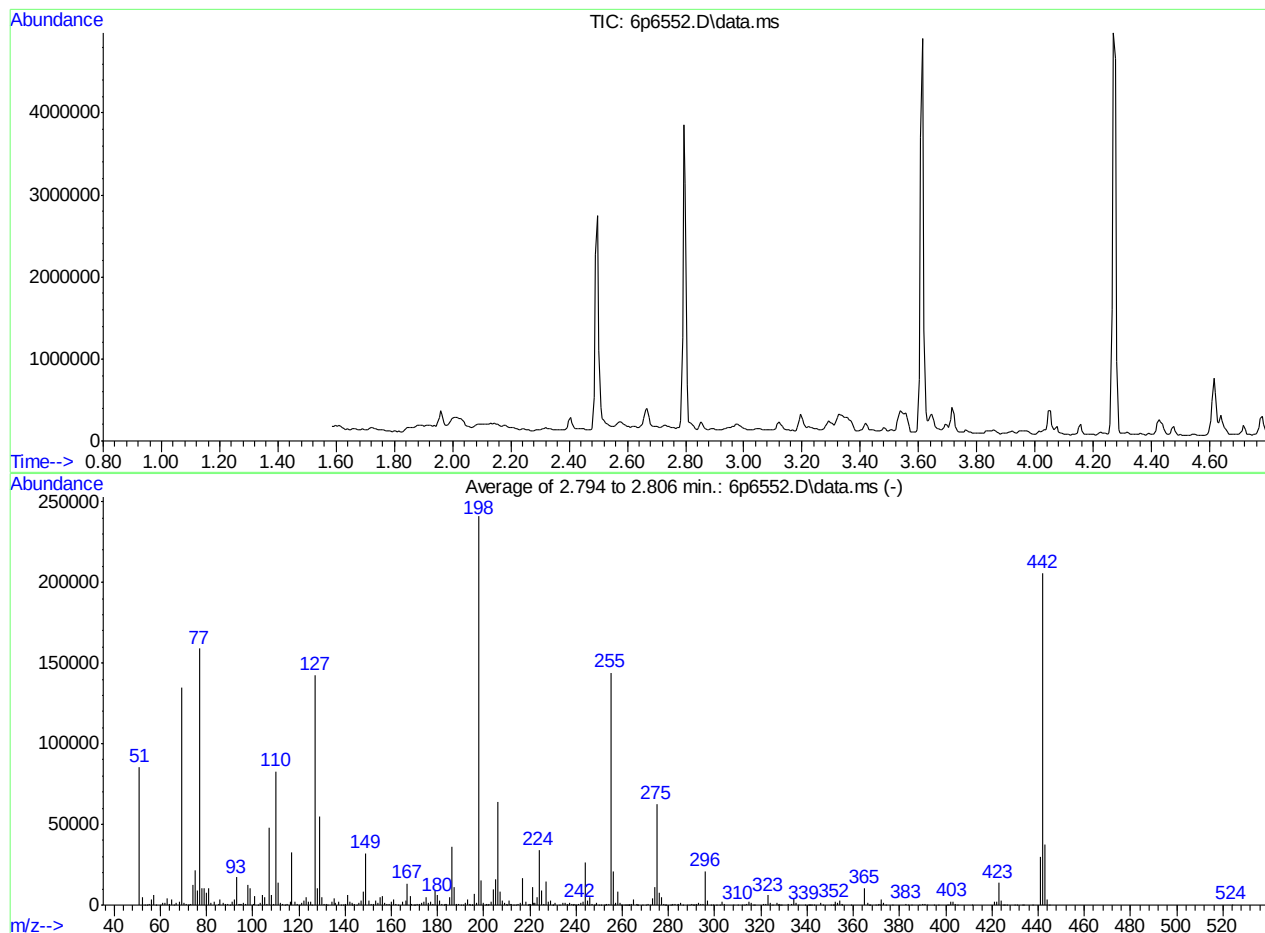
Ion	Exp%	Act%
235.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

DFTPP

Data File : C:\msdchem\1\DATA\6p278\6p6552.D
 Acq On : 28 Apr 2014 9:43 am
 Sample : dftpp
 Misc : op73158,e6p278
 MS Integration Params: events.e

Vial: 1
 Operator: emilyp
 Inst : MS6P
 Multipl: 1.00

Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M (ChemStation Integrator)
 Title : zebron ZB-5msi 30mx0.25mmx0.25um



AutoFind: Scans 212, 213, 214; Background Corrected with Scan 207

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	35.5	85499	PASS
68	69	0.00	2	1.6	2198	PASS
69	198	0.00	100	56.0	134876	PASS
70	69	0.00	2	0.8	1128	PASS
127	198	40	60	59.1	142440	PASS
197	198	0.00	1	0.5	1136	PASS
198	198	100	100	100.0	240856	PASS
199	198	5	9	6.4	15511	PASS
275	198	10	30	26.0	62592	PASS
365	198	1	100	4.4	10509	PASS
441	443	0.01	100	80.3	29928	PASS
442	198	40	100	85.4	205712	PASS
443	442	17	23	18.1	37279	PASS

Average of 2.794 to 2.806 min.: 6p6552.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
51.00	85499	63.00	4364	73.00	1011	85.00	824
52.00	4796	64.05	528	74.00	12795	85.90	3241
53.10	266	65.00	3742	75.00	21511	86.95	1088
54.05	73	65.80	257	76.05	8997	87.90	912
55.00	818	67.00	1407	76.95	159080	88.95	495
56.00	3637	68.00	2198	77.95	10731	90.05	262
57.00	6488	69.00	134876	79.00	10668	91.00	1914
58.00	296	69.95	1128	80.00	7710	92.00	3639
60.10	368	71.00	430	81.00	10134	93.00	17221
61.00	1635	71.90	290	81.95	1684	94.00	993
61.95	1361	72.20	182	83.05	1779	94.40	1030

Average of 2.794 to 2.806 min.: 6p6552.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
95.05	954	106.00	864	117.00	32519	127.95	10305
96.00	1509	106.95	47888	118.00	1916	128.95	54832
97.00	681	108.00	6525	119.05	796	130.00	4679
98.00	12592	109.05	717	120.10	316	131.05	781
99.00	10352	110.00	82739	120.95	1394	131.95	824
100.05	1041	111.00	14104	121.95	2899	132.20	141
101.00	5356	112.05	1291	123.00	4793	134.05	1763
102.05	261	112.90	442	123.95	2102	135.00	4254
102.95	1502	113.70	149	125.00	1911	135.90	1188
104.00	6503	114.95	565	125.70	257	136.95	2050
105.00	4683	116.10	1983	127.00	142440	138.10	64

Average of 2.794 to 2.806 min.: 6p6552.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
139.20	227	149.00	32113	160.00	2333	170.15	59
140.10	972	150.05	2884	161.00	3758	170.90	830
141.00	6322	151.05	718	162.10	980	171.95	654
142.05	1942	152.00	564	163.00	121	172.95	1187
143.00	1080	152.95	2594	165.00	1843	174.00	2412
143.20	281	153.95	1376	166.10	2600	175.00	5030
144.00	421	155.00	4688	167.00	13237	176.00	1159
144.95	143	156.00	5424	168.00	5862	177.00	1818
146.05	1160	157.00	1256	168.20	63	178.05	743
147.05	2522	158.00	610	168.95	910	179.00	9221
148.00	8046	159.00	768	169.80	161	180.00	6218

Average of 2.794 to 2.806 min.: 6p6552.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
181.00	2564	191.10	147	200.00	1620	209.00	1139
181.95	384	192.10	1289	200.80	48	209.90	388
182.90	55	193.10	3324	201.35	751	210.20	280
183.20	382	193.80	275	201.75	212	211.00	2579
183.95	728	194.00	701	202.20	444	211.20	487
185.00	4661	194.90	261	203.05	2093	211.85	453
185.95	35905	195.10	46	204.00	9443	213.10	285
187.00	11125	196.00	6661	205.00	16219	213.80	103
188.05	673	197.00	1136	206.05	63834	215.00	901
189.00	771	197.95	240856	207.05	8520	216.00	1347
190.05	150	198.95	15511	208.00	2561	217.00	16857

Average of 2.794 to 2.806 min.: 6p6552.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
218.00	2347	227.00	14550	237.05	1409	245.20	159
219.05	54	228.00	1939	238.05	400	246.00	4692
219.90	496	228.95	3011	238.80	83	247.00	789
220.15	601	229.85	154	239.05	740	247.80	296

221.00	11373	230.10	84	239.70	127	248.10	82
221.80	1311	231.00	1368	240.00	114	249.00	1186
222.00	1171	232.85	277	241.00	833	249.80	113
223.00	5037	234.00	1155	241.95	1464	250.95	260
224.00	34410	235.05	1209	243.10	2183	252.05	276
224.95	8960	236.00	698	244.10	26732	252.90	197
226.00	975	236.80	109	245.00	3075	253.05	437

Average of 2.794 to 2.806 min.: 6p6552.D\data.ms
dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
254.00	967	261.90	145	271.00	426	281.20	183
255.00	144008	262.40	73	271.95	372	281.95	406
256.00	20963	262.80	172	273.00	4402	283.00	739
256.80	205	263.10	198	274.00	10834	283.90	249
257.10	1502	263.95	577	275.00	62592	284.05	558
258.00	8396	265.00	3757	276.00	7452	285.05	1129
259.00	1677	266.05	541	277.00	5011	285.95	238
259.70	108	266.40	67	278.00	878	288.05	217
260.10	230	266.90	205	278.20	78	289.10	89
260.95	269	268.80	106	278.85	279	289.90	670
261.30	152	269.95	259	281.00	24	290.70	122

Average of 2.794 to 2.806 min.: 6p6552.D\data.ms
dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
291.00	200	302.00	317	317.30	96	332.00	499
291.80	357	303.00	2437	321.00	695	333.05	590
292.00	598	303.95	774	321.95	385	334.05	4294
293.00	1466	308.05	186	323.10	6141	335.00	1267
293.90	681	310.00	270	324.05	1500	336.10	169
295.10	633	312.10	75	324.90	93	338.90	82
296.00	21163	312.80	111	326.90	1182	340.70	177
297.00	2612	314.00	882	327.20	358	340.90	254
298.10	206	315.00	2450	327.90	444	341.10	166
299.10	78	315.95	1348	328.20	235	341.70	125
300.90	332	316.90	193	329.00	122	342.00	348

Average of 2.794 to 2.806 min.: 6p6552.D\data.ms
dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
342.90	99	359.00	169	374.00	130	400.80	144
345.95	1528	365.00	10509	377.10	113	401.05	214
346.95	255	366.05	1372	383.00	1008	402.05	1938
350.00	157	366.80	103	383.85	242	402.95	2409
351.00	253	367.10	72	385.00	101	403.95	862
351.80	178	369.85	218	388.80	75	404.95	260
352.05	1838	370.70	112	390.00	432	411.20	80
352.95	1388	371.05	532	390.95	516	421.00	2254
354.05	2658	371.80	283	392.00	340	422.00	1778
354.90	220	372.10	3449	394.90	82	423.00	13644
355.10	467	373.05	1203	396.90	112	424.05	2965

Average of 2.794 to 2.806 min.: 6p6552.D\data.ms
dftpp

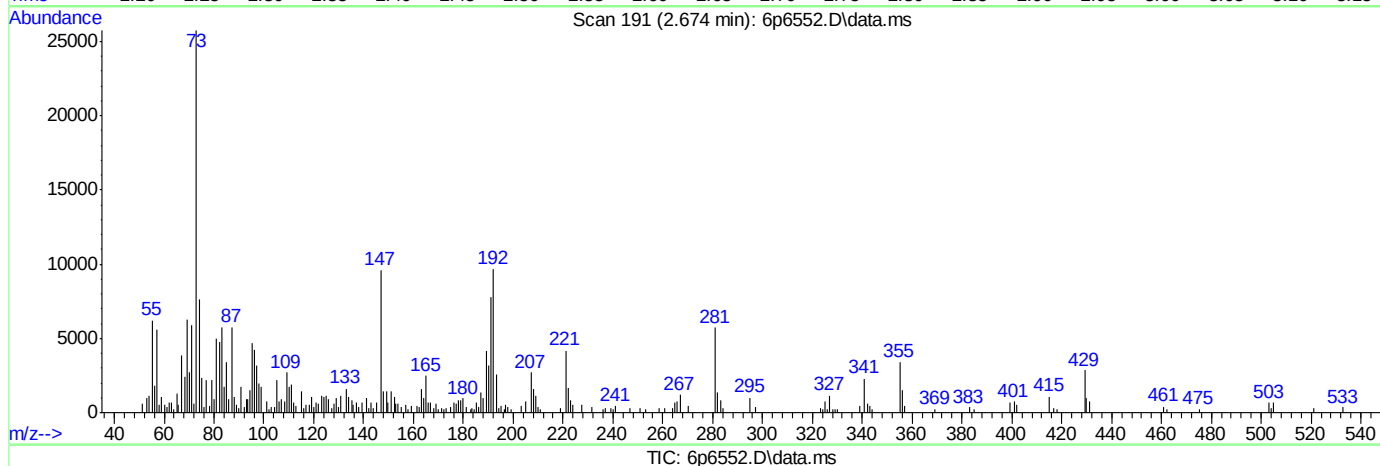
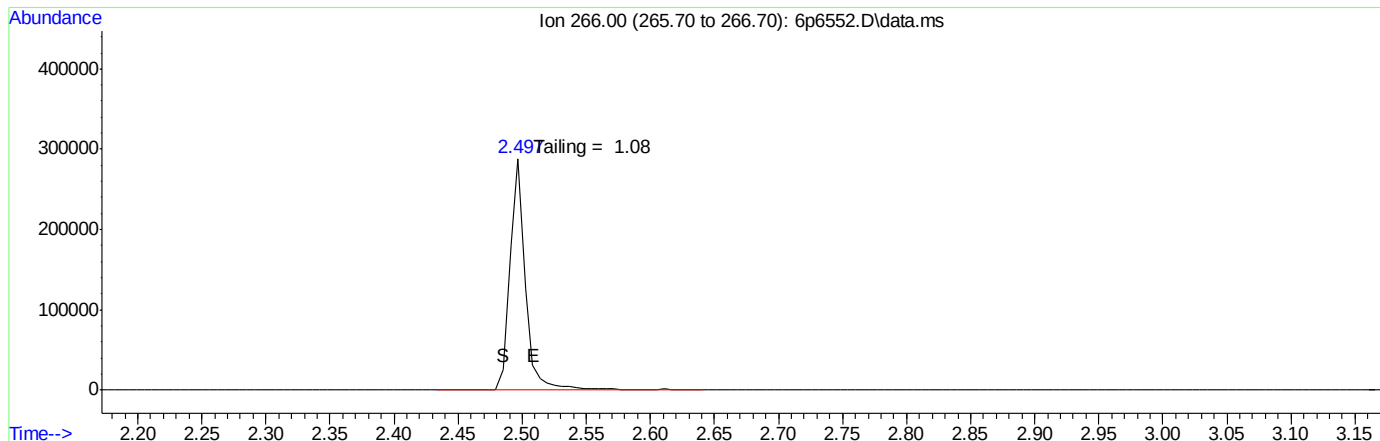
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
425.05	258	444.00	3281				
425.70	76	445.10	115				
426.30	81	523.80	70				
429.60	83						
430.70	71						
433.20	71						
433.75	152						
437.60	83						
441.00	29928						
442.00	205712						
443.00	37279						

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\6p278\
Data File : 6p6552.D
Acq On : 28 Apr 2014 9:43 am
Operator : emilyp
Sample : dftpp
Misc : op73158,e6p278
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 28 09:48:40 2014
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M
Quant Title : zebron ZB-5msi 30mx0.25mmx0.25um
QLast Update : Mon Feb 24 10:11:07 2014
Response via : Initial Calibration



(1) Pentachlorophenol

2.672min (-2.672) 0.00

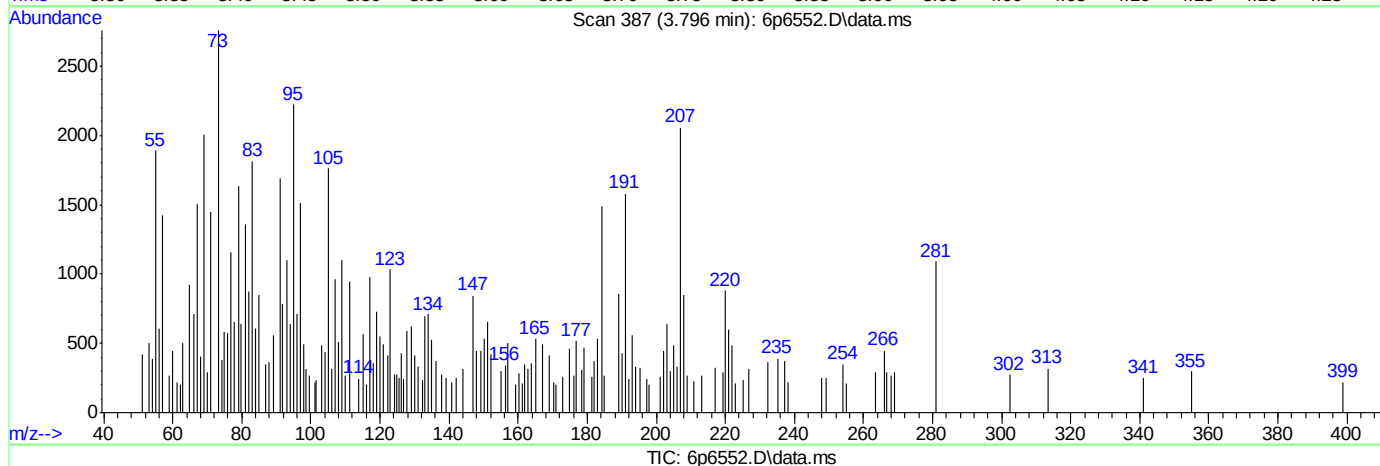
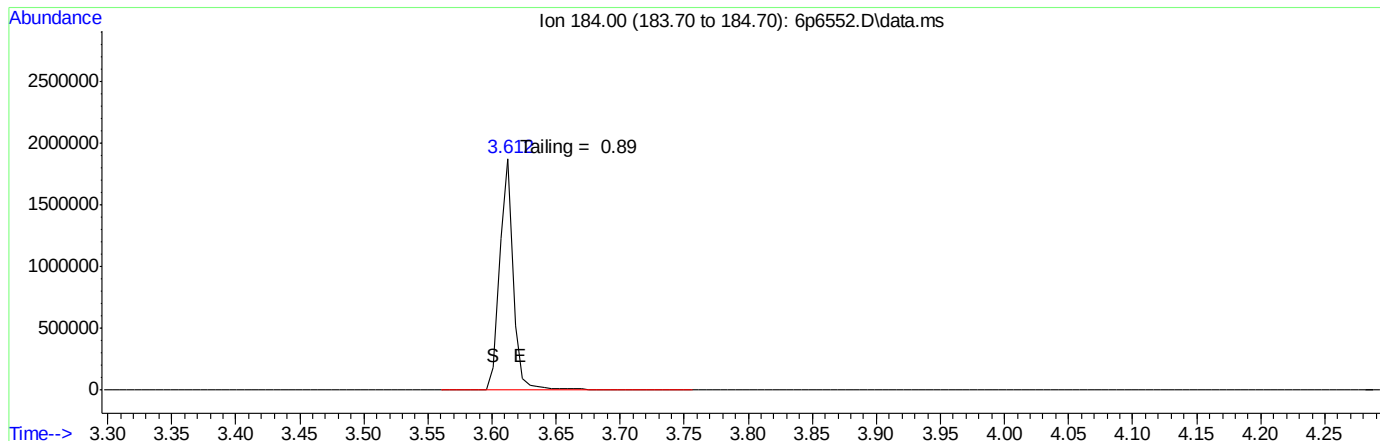
response 0

Ion	Exp%	Act%
266.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\6p278\
Data File : 6p6552.D
Acq On : 28 Apr 2014 9:43 am
Operator : emilyp
Sample : dftpp
Misc : op73158,e6p278
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 28 09:48:40 2014
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M
Quant Title : zebron ZB-5msi 30mx0.25mmx0.25um
QLast Update : Mon Feb 24 10:11:07 2014
Response via : Initial Calibration



(2) Benzidine

3.796min (-3.796) 0.00

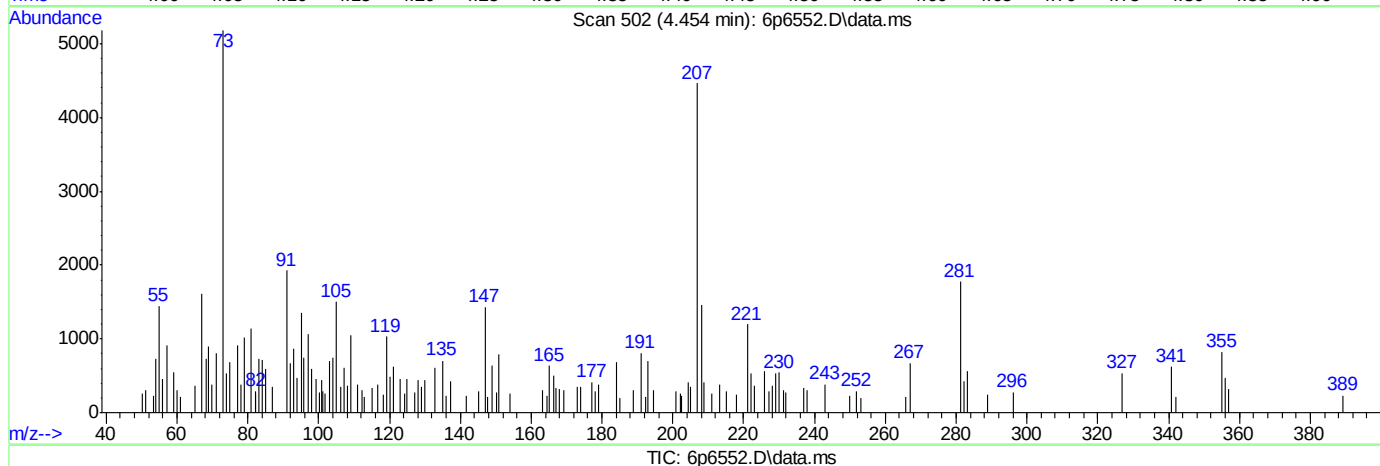
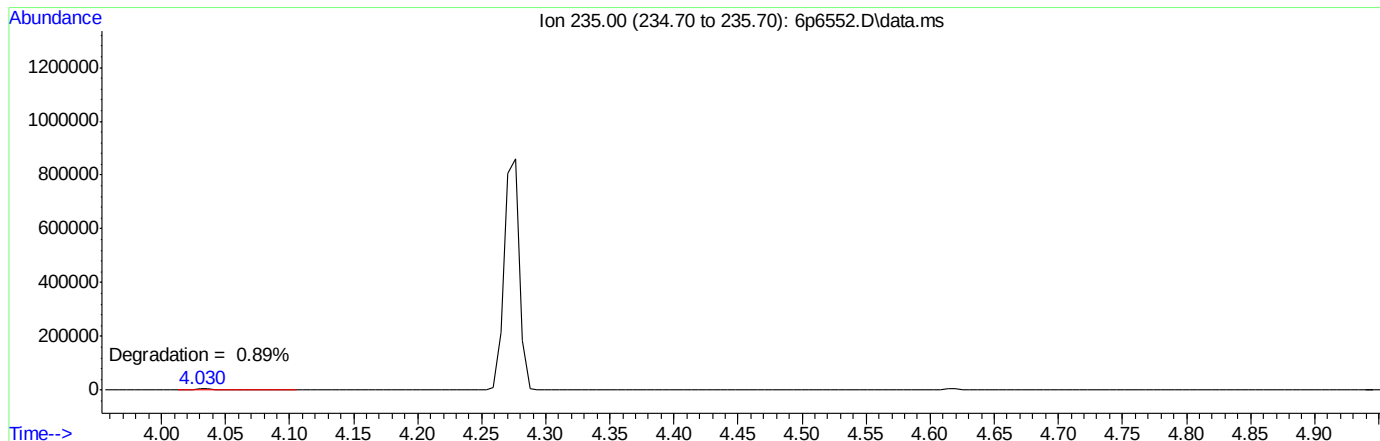
response 0

Ion	Exp%	Act%
184.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\6p278\
Data File : 6p6552.D
Acq On : 28 Apr 2014 9:43 am
Operator : emilyp
Sample : dftpp
Misc : op73158,e6p278
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 28 09:48:40 2014
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M
Quant Title : zebron ZB-5msi 30mx0.25mmx0.25um
QLast Update : Mon Feb 24 10:11:07 2014
Response via : Initial Calibration



(3) PP-DDT

4.454min (-4.454) 0.00

response 0

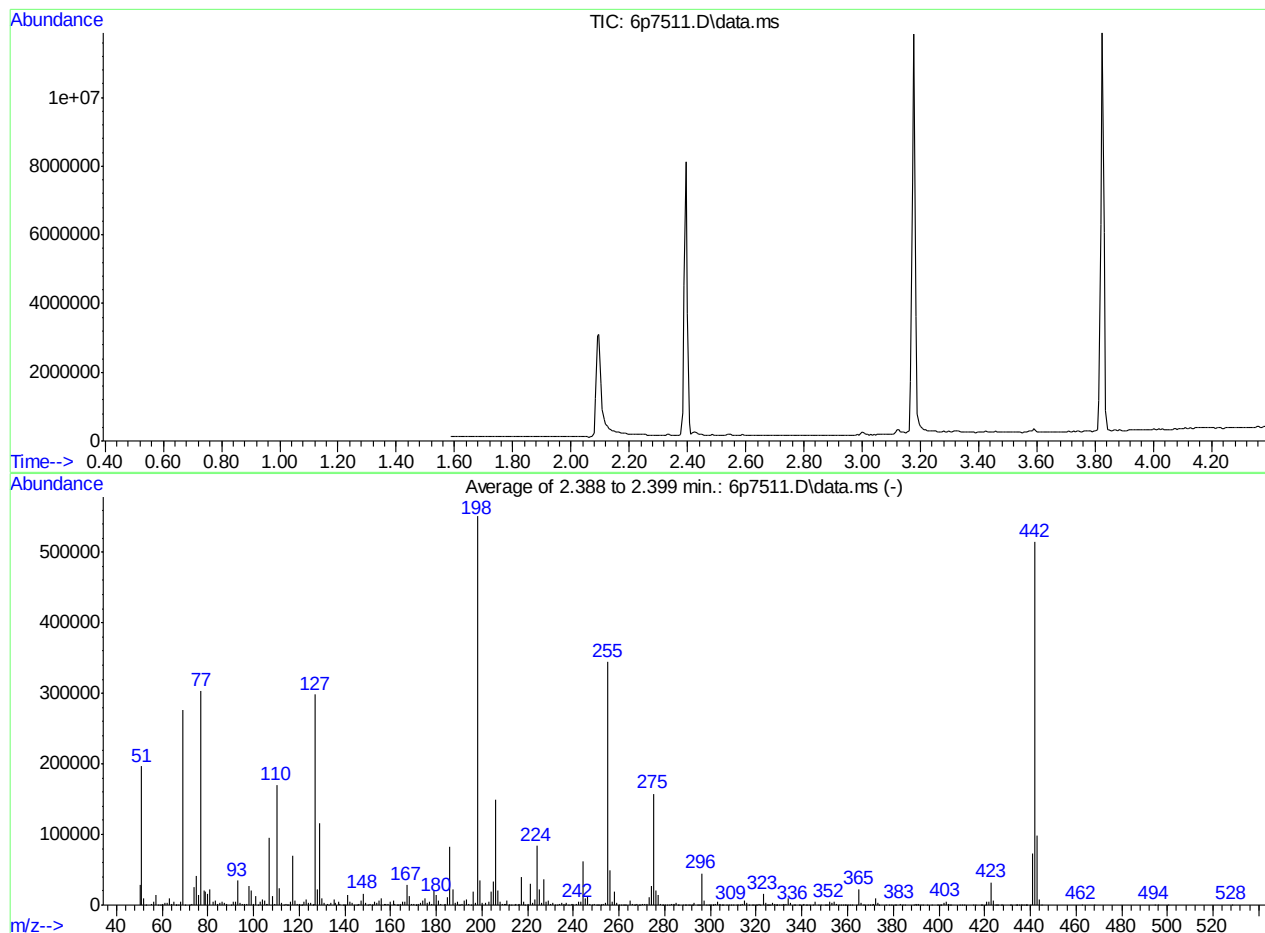
Ion	Exp%	Act%
235.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

DFTPP

Data File : C:\msdchem\1\DATA\e6p319\6p7511.D
Acq On : 29 May 2014 9:55 pm
Sample : DFTPP
Misc : op74494,e6p319
MS Integration Params: events.e

Vial: 1
Operator: andrews1
Inst : MS6P
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M (ChemStation Integrator)
Title : zebron ZB-5msi 30mx0.25mmx0.25um



AutoFind: Scans 141, 142, 143; Background Corrected with Scan 137

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	35.8	196898	PASS
68	69	0.00	2	1.6	4431	PASS
69	198	0.00	100	50.2	276583	PASS
70	69	0.00	2	0.2	417	PASS
127	198	40	60	54.2	298624	PASS
197	198	0.00	1	0.6	3251	PASS
198	198	100	100	100.0	550741	PASS
199	198	5	9	6.5	35723	PASS
275	198	10	30	28.6	157379	PASS
365	198	1	100	4.2	23066	PASS
441	443	0.01	100	74.1	73037	PASS
442	198	40	100	93.3	513984	PASS
443	442	17	23	19.2	98611	PASS

Average of 2.388 to 2.399 min.: 6p7511.D\data.ms

DFTPP

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
50.10	28901	62.00	3828	73.05	1705	83.95	2371
51.00	196898	63.00	9192	74.05	26072	85.00	3527
51.95	10278	64.05	1301	75.00	41416	85.95	4092
52.95	719	65.00	4489	76.00	13819	87.00	3192
55.05	879	65.80	145	77.00	302918	88.05	2385
56.00	5557	66.00	147	78.10	20028	90.00	248
57.00	14482	67.00	408	79.00	19682	91.00	5173
58.00	720	68.00	4431	80.00	16200	91.95	5001
59.10	435	69.00	276583	81.00	23020	93.00	34886
60.00	1690	70.00	417	82.00	5359	93.95	3037
61.00	2791	72.10	696	83.00	6152	94.95	1092

Average of 2.388 to 2.399 min.: 6p7511.D\data.ms

DFTPP

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
96.00	993	106.00	1357	116.00	4894	125.00	3637
97.00	1402	107.00	95447	116.95	69484	125.90	215
97.95	27710	108.00	12665	118.00	5744	126.20	1370
99.00	20416	109.05	1966	119.05	1283	127.00	298624
100.00	1762	110.00	170133	119.85	221	128.00	21659
100.95	11972	111.00	23978	120.10	889	128.95	115362
101.85	735	112.00	3092	120.80	431	129.95	10158
103.00	4573	113.00	749	121.05	141	131.05	2914
104.00	8219	114.00	879	122.00	4539	132.05	1831
104.95	6593	114.85	631	123.00	8652	132.60	450
105.90	881	115.20	509	123.95	3937	134.00	3593

Average of 2.388 to 2.399 min.: 6p7511.D\data.ms

DFTPP

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
135.00	8434	144.95	237	154.10	3671	164.10	1141
135.95	3521	145.30	107	155.00	6690	164.95	4898
137.05	4267	146.00	2405	156.00	10206	166.00	4416
137.90	1273	146.95	6587	157.10	2259	167.00	28149
139.10	663	148.00	15960	157.90	2410	168.00	12646
139.75	703	149.00	3402	159.00	2019	169.05	1492
140.15	334	150.05	716	160.00	4522	170.05	1221
140.95	15080	151.05	2439	161.00	6877	170.90	764
141.95	4483	151.70	591	161.90	1944	171.20	367
142.95	2540	151.95	776	162.80	437	172.05	2429
144.05	580	153.00	4799	163.10	285	172.95	2921

Average of 2.388 to 2.399 min.: 6p7511.D\data.ms

DFTPP

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
174.05	6556	185.00	10562	195.00	801	207.05	20551
175.05	10271	186.00	82600	196.05	18353	208.00	4961
176.05	3907	187.05	22620	197.10	3251	209.00	1639
177.00	4840	188.05	2859	198.00	550741	210.00	1173
177.95	2143	189.05	4786	199.00	35723	210.35	2160
179.00	20056	189.90	268	200.05	3335	211.05	5839
180.00	14065	190.10	301	201.55	3183	211.80	434
181.10	6849	190.95	1637	203.00	4963	212.00	434
182.00	1051	192.05	6433	203.95	19409	213.00	399
183.20	854	193.00	7877	205.05	34112	214.00	207
184.00	1155	194.05	1637	206.05	149256	214.95	1616

Average of 2.388 to 2.399 min.: 6p7511.D\data.ms

DFTPP

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
215.90	789	226.10	2676	236.15	224	247.05	2158
216.05	2311	227.00	35919	237.00	2805	248.10	478
217.00	39147	228.00	4945	237.95	497	249.00	2460
217.95	5126	229.05	6986	239.05	979	249.95	535

218.90	558	229.90	1169	240.00	1161	250.60	117
220.05	1175	231.00	3220	241.00	1739	250.95	232
221.05	31005	232.00	690	242.05	4721	251.80	166
222.00	3533	232.85	415	243.10	4795	252.10	283
223.00	8111	234.05	2093	244.10	62373	253.05	1796
224.05	84048	234.95	2807	245.00	9199	254.10	3866
225.00	22505	235.95	1163	246.00	13060	255.00	344714

Average of 2.388 to 2.399 min.: 6p7511.D\data.ms
DFTPP

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
256.00	49109	266.70	148	276.05	21248	285.15	2692
257.05	4145	267.00	166	277.00	14137	285.80	151
258.00	18814	267.90	878	277.95	2337	286.10	111
259.00	2663	268.80	118	278.80	85	287.85	207
260.10	848	269.10	113	279.00	563	288.85	353
260.95	844	270.00	905	280.20	141	289.10	480
261.80	102	271.05	1126	281.05	767	290.10	732
262.20	71	271.95	1218	281.95	489	290.90	403
262.90	125	273.00	10978	283.00	1671	291.85	402
264.95	6676	274.00	27256	284.00	1012	292.25	199
265.85	1259	275.05	157379	284.15	571	293.00	3400

Average of 2.388 to 2.399 min.: 6p7511.D\data.ms
DFTPP

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
294.05	854	302.05	1296	311.80	212	321.95	855
294.90	489	303.00	5420	312.95	379	323.05	15596
295.20	457	304.00	1789	314.05	2406	324.05	2987
296.00	44992	304.20	232	315.00	5918	324.90	116
297.05	6335	304.85	430	316.05	2872	325.10	127
298.00	651	305.50	72	316.95	336	325.60	171
299.05	286	307.10	113	318.35	219	326.20	630
299.75	173	308.05	806	319.00	82	326.95	3026
300.05	225	309.10	281	319.80	97	328.05	1543
300.90	359	310.10	691	320.10	188	328.50	148
301.25	486	311.20	191	321.05	1327	328.90	98

Average of 2.388 to 2.399 min.: 6p7511.D\data.ms
DFTPP

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
329.15	177	339.10	73	350.50	157	359.90	73
329.90	75	340.30	136	351.05	424	361.20	96
330.90	166	340.95	1814	352.05	4468	361.80	67
331.90	212	341.80	76	353.05	3636	363.90	371
332.05	1131	342.10	514	354.05	5219	365.00	23066
333.05	1344	343.10	112	355.00	953	366.00	2931
334.05	9765	344.80	90	356.20	195	366.80	152
335.05	2953	346.00	4183	356.90	141	367.20	136
336.20	256	347.00	734	358.20	90	368.80	91
337.10	82	348.00	84	358.80	268	370.05	568
338.85	227	350.10	157	359.00	130	370.90	401

Average of 2.388 to 2.399 min.: 6p7511.D\data.ms
DFTPP

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
371.15	980	385.10	227	399.90	83	414.95	238
372.05	8956	389.00	70	400.60	139	416.10	110
373.05	2558	389.80	107	400.90	534	418.40	91
373.70	68	390.05	885	402.00	3180	419.10	103
376.90	311	390.90	159	403.05	4974	420.25	283
378.20	82	391.15	873	404.05	1713	421.05	4319
379.20	84	392.00	688	404.80	186	422.05	4195
380.40	139	392.80	123	405.00	145	423.05	32061
380.90	161	395.05	194	409.00	131	424.00	6049
383.05	2187	396.95	236	410.15	216	424.90	408
384.05	823	399.20	77	410.90	89	425.10	414

Average of 2.388 to 2.399 min.: 6p7511.D\data.ms

DFTPP

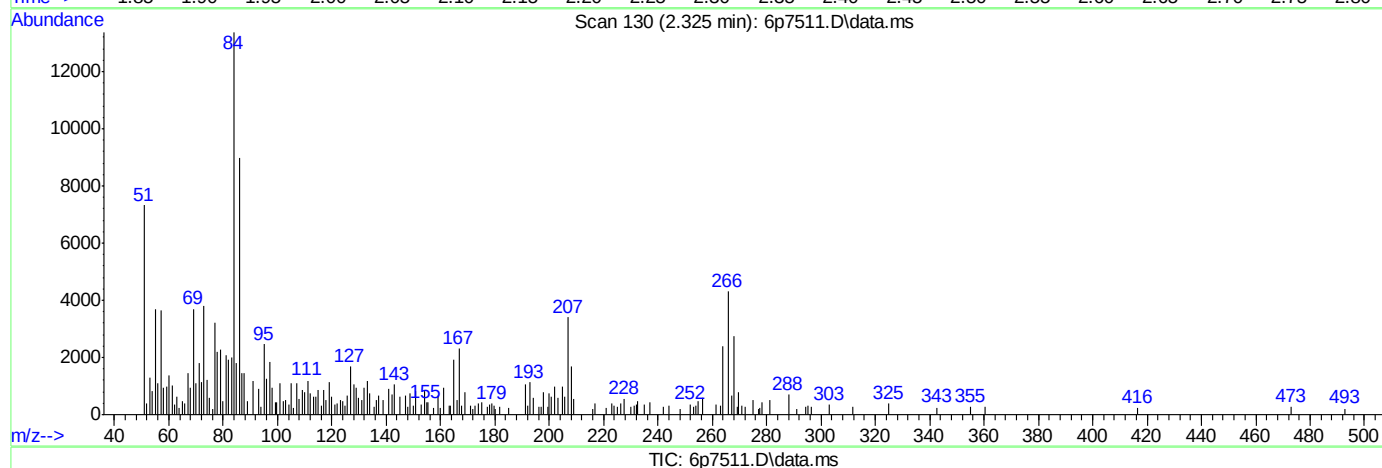
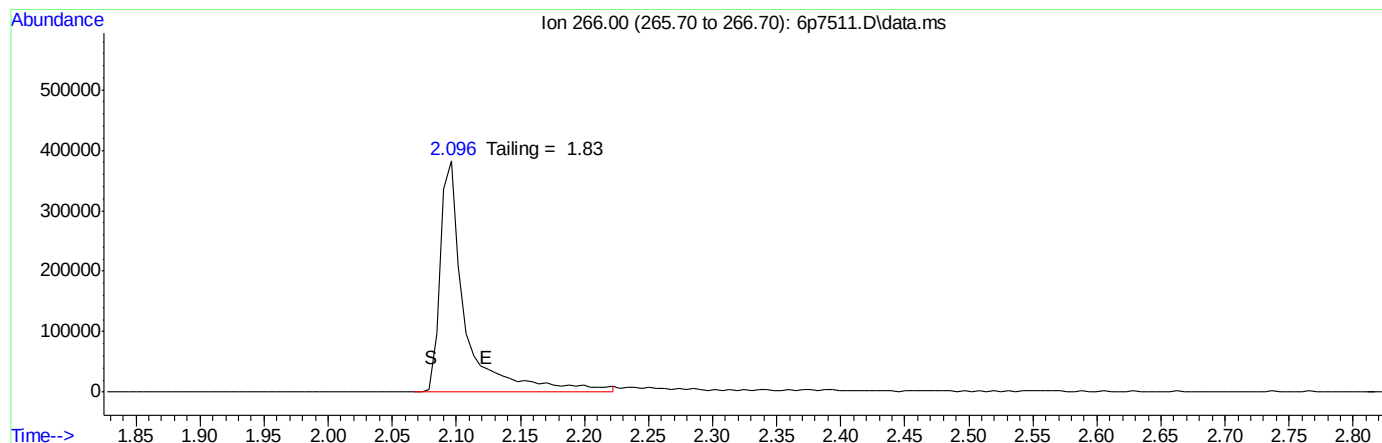
Modified: subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
425.90	110	437.20	154	467.90	71		
427.20	129	437.90	74	494.40	78		
427.70	83	438.10	199	495.90	67		
431.05	217	438.60	126	500.40	67		
431.70	76	440.20	137	528.10	70		
433.40	107	441.10	73037				
434.00	80	442.10	513984				
434.20	137	443.10	98611				
434.90	230	444.00	8020				
436.00	85	445.05	384				
436.30	127	462.40	104				

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p319\
Data File : 6p7511.D
Acq On : 29 May 2014 9:55 pm
Operator : andrews1
Sample : DFTPP
Misc : op74494,e6p319
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 22:00:34 2014
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M
Quant Title : zebron ZB-5msi 30mx0.25mmx0.25um
QLast Update : Sat May 10 11:51:26 2014
Response via : Initial Calibration



(1) Pentachlorophenol

2.325min (-2.325) 0.00

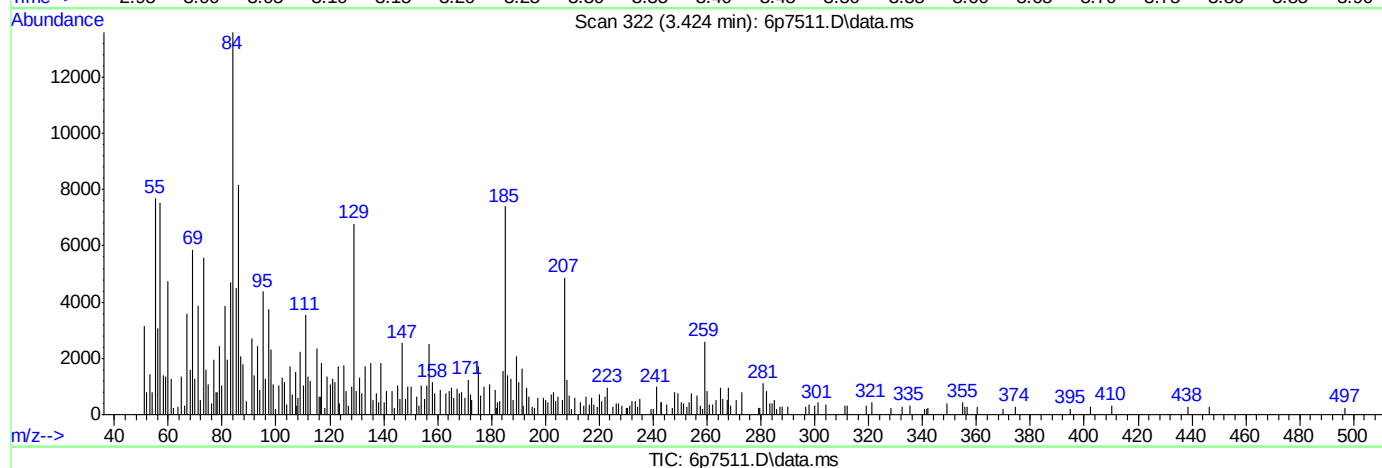
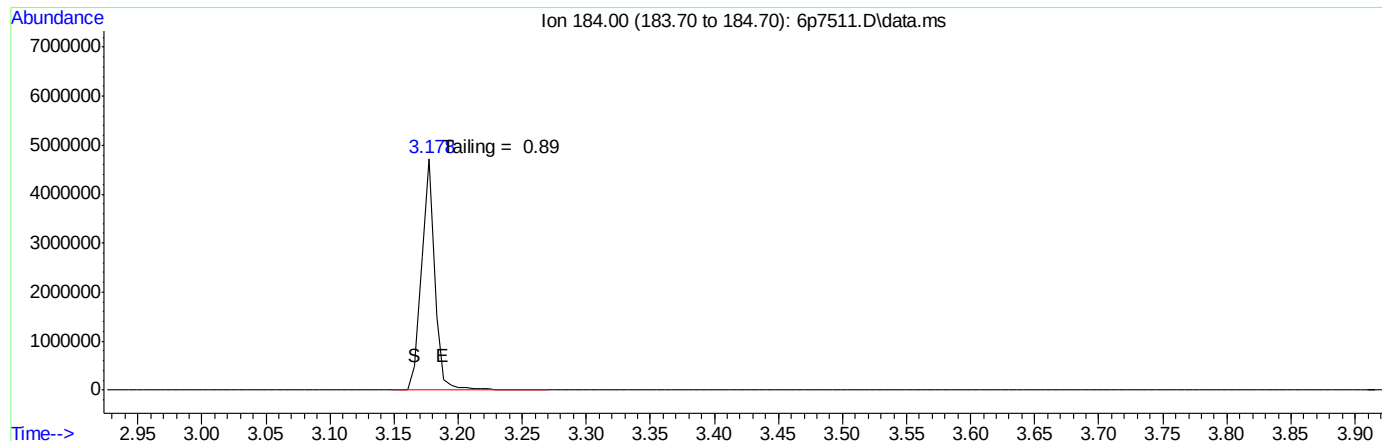
response 0

Ion	Exp%	Act%
266.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\6p319\
Data File : 6p7511.D
Acq On : 29 May 2014 9:55 pm
Operator : andrews1
Sample : DFTPP
Misc : op74494,e6p319
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 22:00:34 2014
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M
Quant Title : zebron ZB-5msi 30mx0.25mmx0.25um
QLast Update : Sat May 10 11:51:26 2014
Response via : Initial Calibration



(2) Benzidine

3.424min (-3.424) 0.00

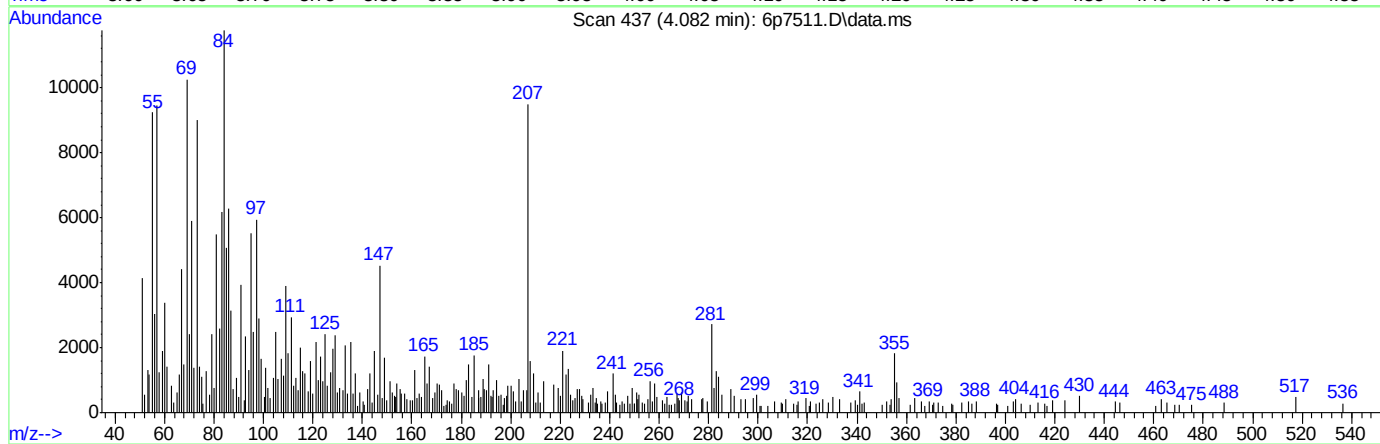
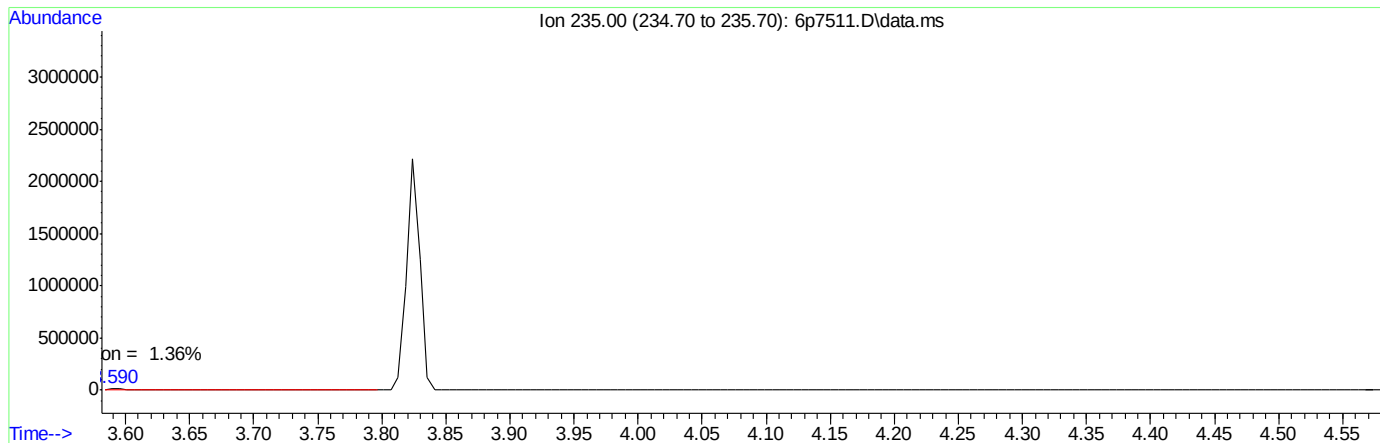
response 0

Ion	Exp%	Act%
184.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\6p319\
Data File : 6p7511.D
Acq On : 29 May 2014 9:55 pm
Operator : andrews1
Sample : DFTPP
Misc : op74494,e6p319
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 22:00:34 2014
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M
Quant Title : zebron ZB-5msi 30mx0.25mmx0.25um
QLast Update : Sat May 10 11:51:26 2014
Response via : Initial Calibration



(3) PP-DDT

4.082min (-4.082) 0.00

response 0

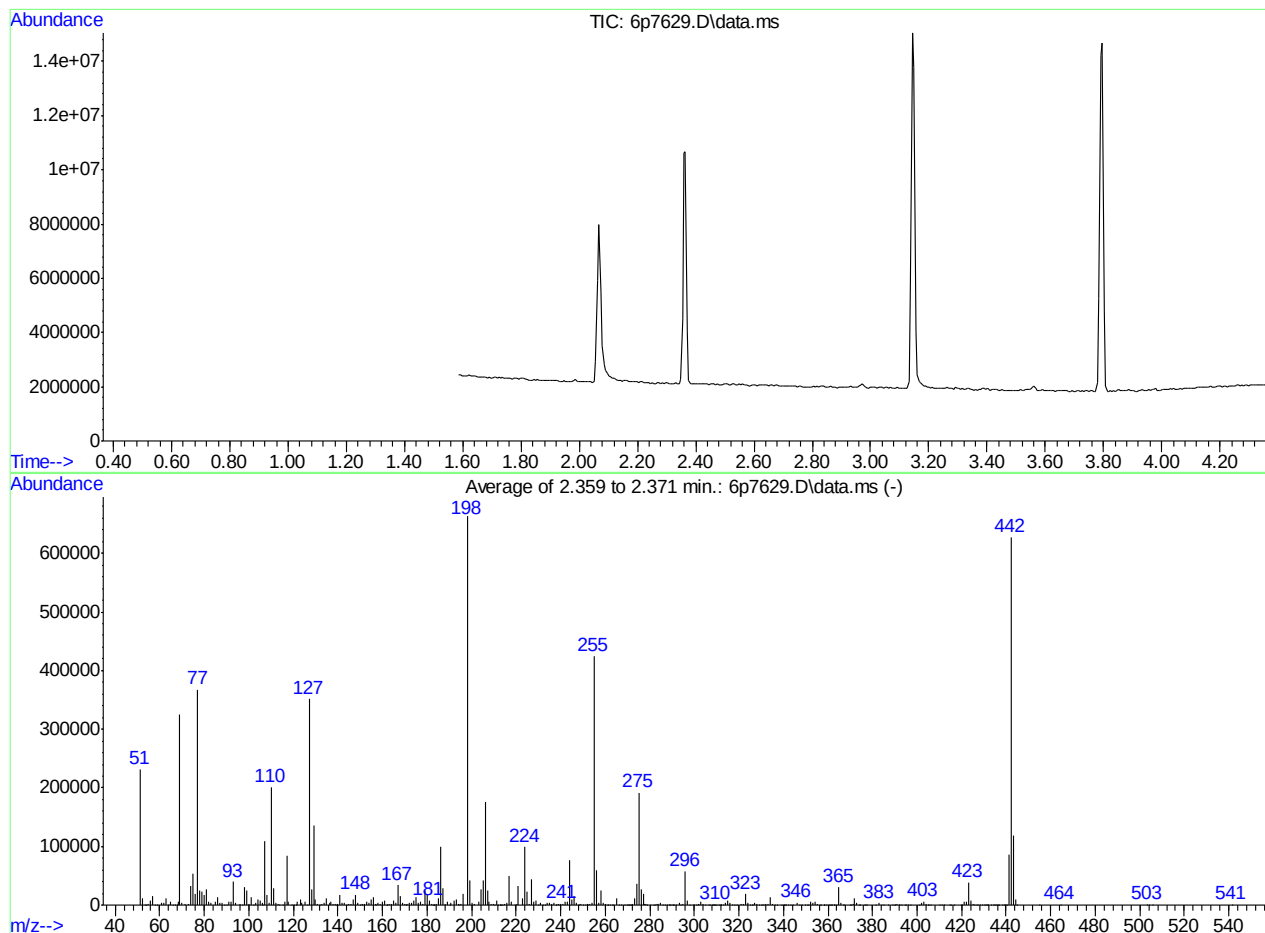
Ion	Exp%	Act%
235.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

DFTPP

Data File : C:\msdchem\1\DATA\e6p323\6p7629.D
Acq On : 2 Jun 2014 9:16 am
Sample : DFTPP
Misc : op74494,e6p323
MS Integration Params: events.e

Vial: 1
Operator: ashleyv
Inst : MS6P
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M (ChemStation Integrator)
Title : zebron ZB-5msi 30mx0.25mmx0.25um



AutoFind: Scans 136, 137, 138; Background Corrected with Scan 122

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	35.0	232256	PASS
68	69	0.00	2	1.7	5462	PASS
69	198	0.00	100	49.0	324605	PASS
70	69	0.00	2	1.0	3122	PASS
127	198	40	60	53.0	351008	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	662891	PASS
199	198	5	9	6.5	42978	PASS
275	198	10	30	29.0	191990	PASS
365	198	1	100	4.7	30872	PASS
441	443	0.01	100	71.5	85277	PASS
442	198	40	100	94.8	628139	PASS
443	442	17	23	19.0	119256	PASS

Average of 2.359 to 2.371 min.: 6p7629.D\data.ms

DFTPP

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
51.00	232256	62.95	11581	73.95	31672	85.95	14208
52.00	11498	64.05	703	74.95	54120	87.00	3131
53.05	567	65.00	5164	76.10	19060	87.95	4496
53.95	27	65.90	93	77.00	367253	88.95	375
55.00	1480	66.95	489	78.10	24308	89.95	291
55.95	8279	67.90	81	79.00	23748	91.00	5432
57.00	14714	68.15	5462	80.00	18097	91.95	6268
57.90	870	69.00	324605	80.95	26016	93.00	40108
58.95	2	69.95	3122	82.00	6102	94.00	3052
60.95	3227	71.15	1362	83.00	3728	96.05	2914
61.95	4558	73.05	2218	85.00	5101	97.05	797

Average of 2.359 to 2.371 min.: 6p7629.D\data.ms

DFTPP

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
97.95	30688	108.00	17250	119.00	150	130.00	9316
99.00	24587	109.05	3925	119.95	722	130.90	2044
99.85	2466	109.95	201137	121.10	43	131.90	649
101.00	13551	111.00	28560	121.95	6673	132.85	1084
101.90	789	112.00	4797	123.00	10513	134.00	2974
102.95	4547	113.10	1776	123.95	4184	135.00	10971
104.05	9286	113.85	292	125.00	5025	136.05	4286
105.00	8502	115.05	854	126.10	665	137.05	5641
105.95	3058	115.95	6085	127.00	351008	137.95	1658
106.30	352	117.00	84946	128.00	26794	138.90	1154
107.00	108472	117.90	5934	129.00	136682	139.10	42

Average of 2.359 to 2.371 min.: 6p7629.D\data.ms

DFTPP

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
140.00	2067	150.80	178	159.95	5178	170.05	1208
141.00	16681	151.00	2340	161.00	6866	170.50	143
142.00	4848	152.00	1688	161.90	885	171.00	1590
142.90	3167	153.00	6498	162.10	308	172.00	3082
143.95	670	154.00	4317	163.05	1054	173.00	3566
144.95	1029	155.05	9144	164.00	1164	174.05	7298
146.00	2887	155.95	13213	165.00	7056	175.05	12890
147.00	9827	156.70	216	166.00	4673	176.05	3761
148.00	18001	157.10	2620	167.00	33959	177.00	5358
149.00	4573	157.95	3303	168.00	16319	177.95	2248
150.00	1007	159.05	1679	169.00	2970	179.00	25876

Average of 2.359 to 2.371 min.: 6p7629.D\data.ms

DFTPP

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
180.05	17541	188.95	6171	200.05	3500	211.05	7157
181.00	8497	189.95	853	201.45	2555	211.95	474
181.90	1930	190.90	3050	203.00	5302	212.80	326
182.80	243	192.00	7381	204.00	26080	213.00	300
183.00	208	193.00	9312	205.10	41790	213.20	117
183.30	321	193.95	1448	206.00	175987	213.95	390
183.95	1901	194.20	260	207.05	25317	215.00	1900
185.10	12236	194.95	1919	207.95	6065	216.05	4201
186.05	99592	196.05	19930	209.00	1965	217.00	49450
187.00	27883	198.00	662891	209.95	2819	218.05	5645
188.00	2767	199.00	42978	210.50	444	219.15	292

Average of 2.359 to 2.371 min.: 6p7629.D\data.ms

DFTPP

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
220.20	1072	231.90	529	240.95	2343	251.05	770
221.00	32887	233.05	951	242.00	5354	251.90	1172
223.00	11487	234.00	3066	243.05	6466	252.10	124
224.05	98616	235.10	3692	244.10	77283	252.95	2321

225.10	23334	236.00	2288	245.00	9746	254.10	4536
226.05	2395	237.00	2944	246.00	15351	255.00	425195
226.95	43406	237.90	215	246.95	4107	256.00	59152
228.00	5095	238.10	441	247.80	365	257.00	4366
228.95	7838	238.95	2059	248.10	438	258.00	25285
229.95	976	239.70	253	249.00	2815	259.00	3424
231.05	3723	240.10	1373	249.95	682	260.10	1025

Average of 2.359 to 2.371 min.: 6p7629.D\data.ms
DFTPP

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
260.95	609	270.90	468	278.95	612	289.00	111
261.30	111	271.15	393	280.10	107	289.15	105
261.95	346	271.70	117	281.90	532	290.05	732
263.10	297	272.05	1431	282.20	115	290.30	90
263.85	316	273.00	11668	283.05	2578	291.05	376
265.00	11032	274.00	35988	284.00	1377	292.05	980
265.90	688	274.95	191990	285.00	3289	293.10	4287
267.15	444	276.00	26675	286.00	496	294.05	878
268.90	217	277.00	18611	287.00	96	295.05	1555
269.85	615	277.90	1465	287.90	134	296.00	57828
270.05	149	278.10	1261	288.90	209	297.00	7770

Average of 2.359 to 2.371 min.: 6p7629.D\data.ms
DFTPP

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
297.95	491	307.95	479	314.00	3283	325.80	435
299.20	241	308.20	322	315.00	7196	326.00	99
300.00	81	308.80	208	316.00	3241	326.90	3037
300.95	925	309.05	455	317.05	862	327.90	2095
301.70	128	309.60	70	318.00	201	329.15	665
302.10	1216	309.90	702	318.90	184	330.05	185
303.05	6262	310.95	200	321.05	1819	330.80	111
304.05	2112	311.30	104	322.00	1167	331.20	141
305.00	179	311.80	184	323.05	18897	332.10	1592
306.20	218	312.15	240	324.05	3654	333.05	1696
307.10	220	313.05	780	324.95	186	334.05	12731

Average of 2.359 to 2.371 min.: 6p7629.D\data.ms
DFTPP

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
335.05	2934	346.05	3888	356.95	311	365.00	30872
335.90	400	347.00	902	358.00	165	366.00	3828
336.90	171	348.20	92	358.20	92	366.95	257
339.00	407	349.80	150	359.05	610	367.20	181
339.90	232	350.90	191	360.00	109	369.80	86
340.10	87	351.10	282	360.95	195	370.10	436
340.85	967	352.05	5272	361.50	112	371.10	1814
341.10	967	353.05	4572	361.90	111	372.05	10899
342.05	232	354.00	5977	362.60	72	373.05	3042
343.00	199	355.10	1259	362.80	106	374.05	29
344.10	111	356.00	197	364.00	164	374.30	182

Average of 2.359 to 2.371 min.: 6p7629.D\data.ms
DFTPP

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
376.20	89	391.15	1081	404.00	2144	420.10	73
377.05	528	391.80	233	404.95	337	421.05	5261
377.30	96	392.10	492	405.20	109	422.05	5304
381.20	84	393.00	119	406.10	72	423.10	38656
383.10	3026	394.60	117	409.90	192	424.00	8103
383.90	655	395.10	166	410.90	101	424.95	1102
385.10	430	396.20	75	411.90	70	425.50	224
387.10	107	397.00	277	414.80	105	426.90	71
388.90	72	401.00	1013	415.10	220	427.40	83
389.80	135	402.05	4391	416.60	84	428.00	92
390.00	809	403.00	6182	419.80	132	429.30	133

Average of 2.359 to 2.371 min.: 6p7629.D\data.ms

DFTPP

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
430.10	129	436.90	80	455.10	110		
430.80	279	438.10	86	464.30	161		
431.20	122	439.20	197	503.20	150		
431.70	105	439.50	142	504.10	95		
431.90	69	439.80	74	505.90	72		
433.10	73	440.15	258	541.20	127		
434.20	68	441.05	85277				
434.80	89	442.05	628139				
435.20	126	443.05	119256				
435.80	110	444.05	9629				
436.40	75	445.05	690				

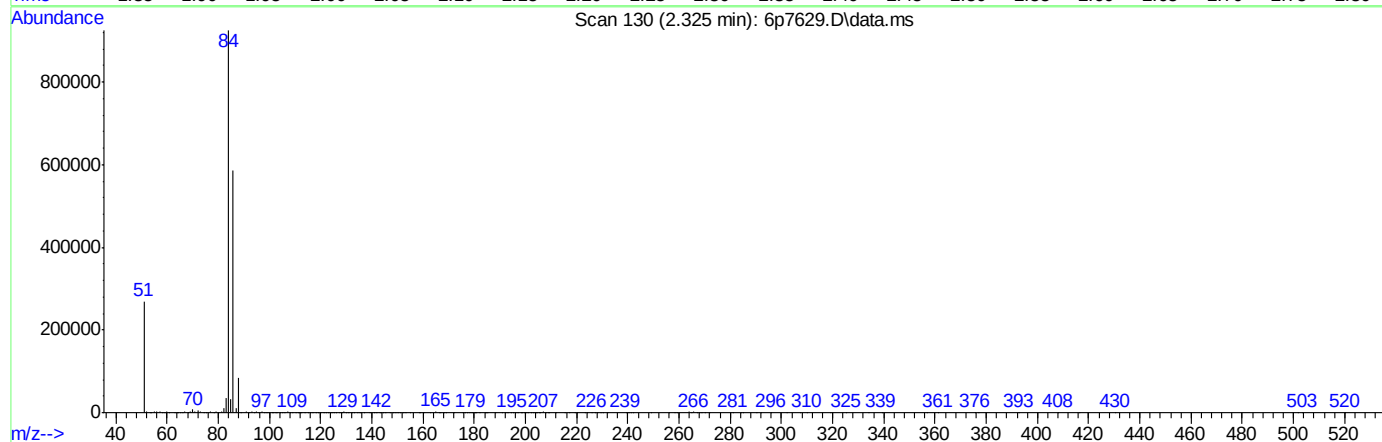
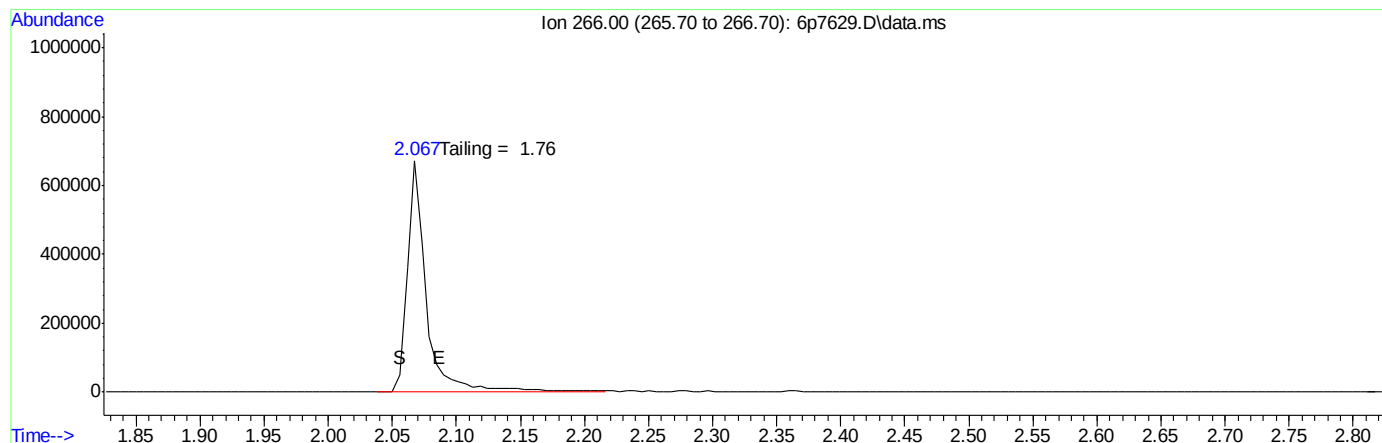
9.5.9

6

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p323\
Data File : 6p7629.D
Acq On : 2 Jun 2014 9:16 am
Operator : ashleyv
Sample : DFTPP
Misc : op74494,e6p323
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 02 09:22:26 2014
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M
Quant Title : zebron ZB-5msi 30mx0.25mmx0.25um
QLast Update : Sat May 10 11:51:25 2014
Response via : Initial Calibration



(1) Pentachlorophenol

2.325min (-2.325) 0.00

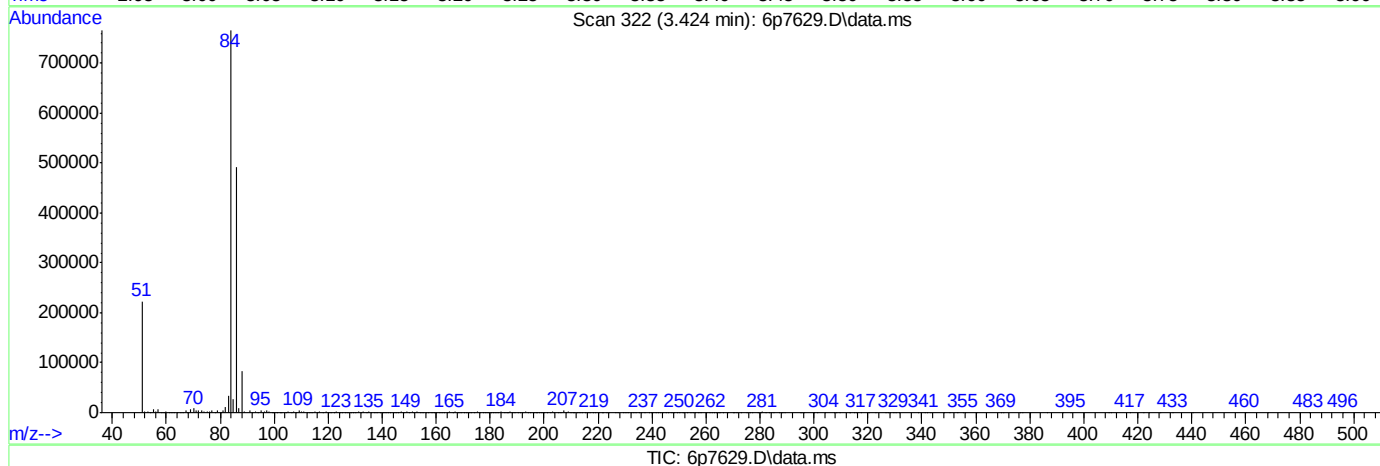
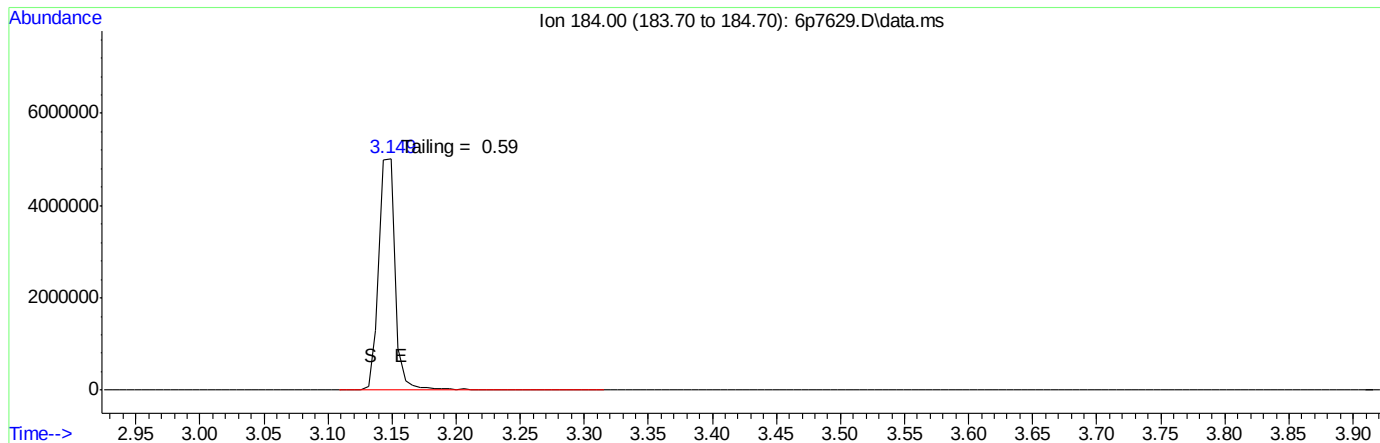
response 0

Ion	Exp%	Act%
266.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p323\
Data File : 6p7629.D
Acq On : 2 Jun 2014 9:16 am
Operator : ashleyv
Sample : DFTPP
Misc : op74494,e6p323
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 02 09:22:26 2014
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M
Quant Title : zebron ZB-5msi 30mx0.25mmx0.25um
QLast Update : Sat May 10 11:51:25 2014
Response via : Initial Calibration



(2) Benzidine

3.424min (-3.424) 0.00

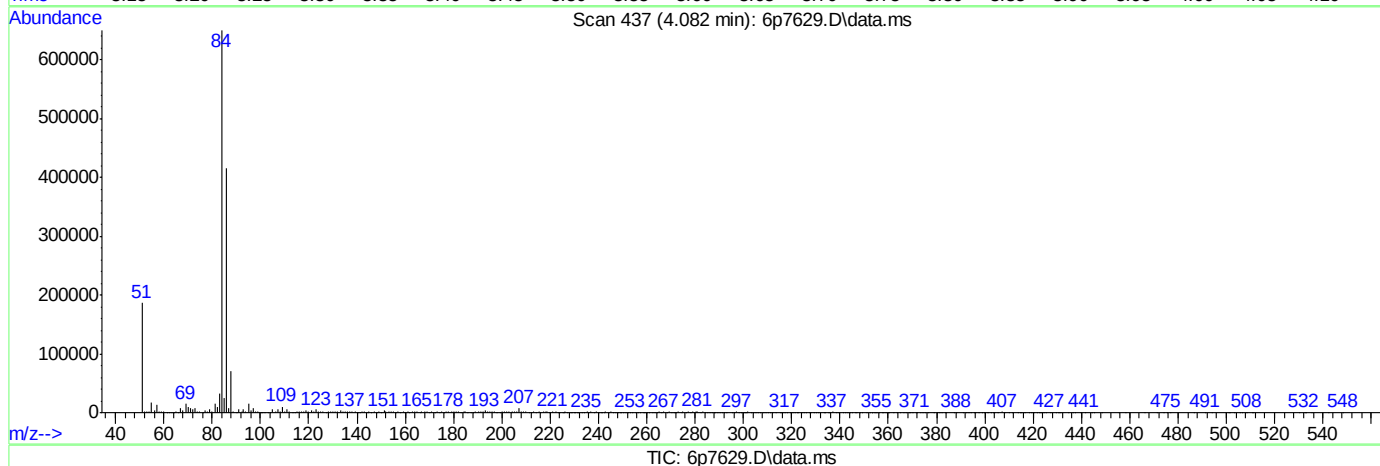
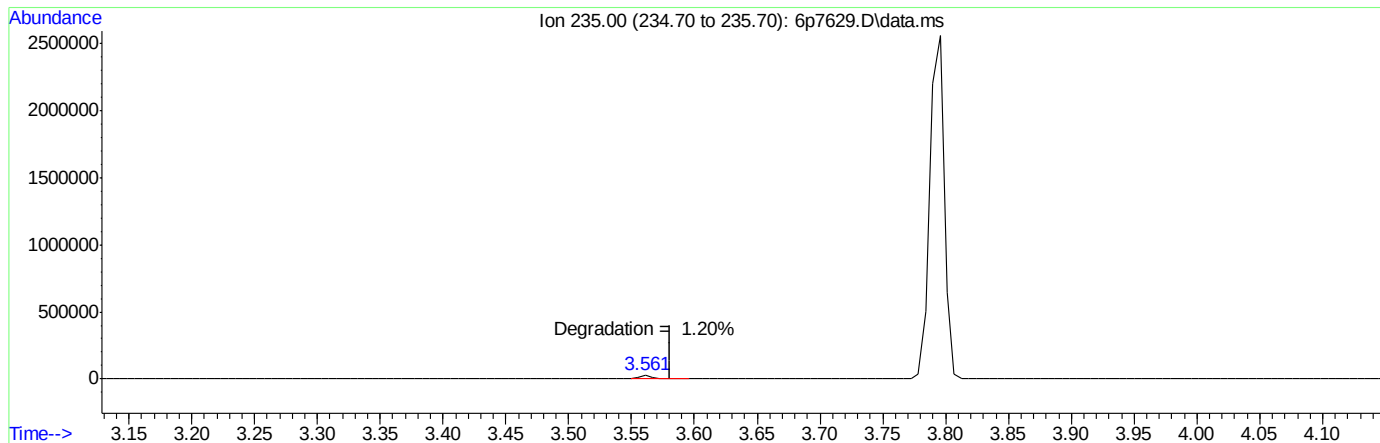
response 0

Ion	Exp%	Act%
184.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\6p323\
Data File : 6p7629.D
Acq On : 2 Jun 2014 9:16 am
Operator : ashleyv
Sample : DFTPP
Misc : op74494,e6p323
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 02 09:22:26 2014
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M
Quant Title : zebron ZB-5msi 30mx0.25mmx0.25um
QLast Update : Sat May 10 11:51:25 2014
Response via : Initial Calibration



(3) PP-DDT

4.082min (-4.082) 0.00

response 0

Ion	Exp%	Act%
235.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1539\
 Data File : 2p37001.D
 Acq On : 28 May 2014 8:20 pm
 Operator : ashleyd
 Sample : icc1539-50
 Misc : op75027,e2p1539
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 29 16:22:47 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Thu May 29 15:57:46 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.624	152	553607	40.00	ppb	0.00
24) Naphthalene-d8	4.967	136	2102820	40.00	ppb	0.00
47) Acenaphthene-d10	7.031	164	1129237	40.00	ppb	0.00
69) Phenanthrene-d10	8.834	188	1756218	40.00	ppb	0.00
83) Chrysene-d12	12.578	240	1634480	40.00	ppb	0.00
92) Perylene-d12	14.632	264	1419355	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	3.624	152	553607	40.00	ppb	0.00
104) Acenaphthene-d10a	7.031	164	1129237	40.00	ppb	0.00
107) Chrysene-d12a	12.578	240	1634480	40.00	ppb	0.00
110) Phenanthrene-d10a	8.834	188	1756218	40.00	ppb	0.00
112) Naphthalene-d8a	4.967	136	2102820	40.00	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol	2.522	112	952669	50.31	ppb	0.00
Spiked Amount	50.000	Range	11 - 58	Recovery	=	100.62%#
8) Phenol-d5	3.271	99	1138362	49.75	ppb	0.00
Spiked Amount	50.000	Range	10 - 59	Recovery	=	99.50%#
25) Nitrobenzene-d5	4.186	82	909077	48.42	ppb	0.00
Spiked Amount	50.000	Range	19 - 61	Recovery	=	96.84%#
51) 2-Fluorobiphenyl	6.240	172	1694690	47.78	ppb	0.00
Spiked Amount	50.000	Range	21 - 58	Recovery	=	95.56%#
73) 2,4,6-Tribromophenol	7.989	330	210589	51.68	ppb	0.00
Spiked Amount	50.000	Range	12 - 68	Recovery	=	103.36%#
85) Terphenyl-d14	11.048	244	1634340	50.27	ppb	0.00
Spiked Amount	50.000	Range	16 - 65	Recovery	=	100.54%#
108) 1-chlorooctadecane	0.000	57	0	0.00	ppb	
111) O-terphenyl	0.000	230	0	0.00	ppb	

Target Compounds

Qvalue

2) 1,4-Dioxane	1.619	88	417158	50.65	ppb	100
3) Pyridine	1.779	79	1051359	49.41	ppb	100
4) N-Nitrosodimethylamine	1.752	74	531617	49.96	ppb	100
6) Indene	3.881	116	1757240	48.25	ppb	100
7) Cumene	2.924	105	2616594	50.00	ppb	100
9) Phenol	3.282	94	1206929	49.20	ppb	100
10) Aniline	3.314	93	1195777	45.72	ppb	100
11) bis(2-Chloroethyl)ether	3.368	93	830743	48.59	ppb	100
12) 2-Chlorophenol	3.426	128	1020640	48.81	ppb	100
13) Decane	3.474	57	1000108	47.22	ppb	100
14) 1,3-Dichlorobenzene	3.576	146	1102654	48.72	ppb	100
15) 1,4-Dichlorobenzene	3.640	146	1092043	48.70	ppb	100
16) Benzyl alcohol	3.758	108	628638	50.24	ppb	100
17) 1,2-Dichlorobenzene	3.795	146	1014151	48.18	ppb	100
18) Acetophenone	4.025	105	1419143	47.34	ppb	100
19) 2-Methylphenol	3.870	108	835024	48.77	ppb	100
20) 2,2'-oxybis(1-Chloropr...	3.897	121	259964	47.72	ppb	100
21) 3&4-Methylphenol	4.031	108	854371	48.02	ppb	100
22) n-Nitroso-di-n-propyla...	4.036	70	560517	49.75	ppb	100
23) Hexachloroethane	4.138	201	336554	48.28	ppb	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1539\
 Data File : 2p37001.D
 Acq On : 28 May 2014 8:20 pm
 Operator : ashleyd
 Sample : icc1539-50
 Misc : op75027,e2p1539
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 29 16:22:47 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Thu May 29 15:57:46 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Nitrobenzene	4.202	77	922591	47.75	ppb	100
27) Quinoline	5.379	129	2176264	48.69	ppb	100
28) Isophorone	4.464	82	1596109	48.37	ppb	100
29) 2-Nitrophenol	4.550	139	522569	52.00	ppb	100
30) 2,4-Dimethylphenol	4.603	107	852222	54.64	ppb	100
31) Benzoic acid	4.758	105	670254m	51.39	ppb	
32) bis(2-Chloroethoxy)met...	4.710	93	987644	48.27	ppb	100
33) 2,4-Dichlorophenol	4.812	162	754738	49.44	ppb	100
34) 2,6-Dichlorophenol	5.068	162	718174	49.65	ppb	100
35) 1,3,5-Trichlorobenzene	4.566	180	970103	48.09	ppb	100
36) 1,2,4-Trichlorobenzene	4.908	180	824025	48.41	ppb	100
37) 1,2,3-Trichlorobenzene	5.159	180	905808	48.43	ppb	100
38) Naphthalene	4.993	128	2698786	48.07	ppb	100
39) 4-Chloroaniline	5.063	127	1175693	48.22	ppb	100
40) 2,3-Dichloroaniline	6.127	161	1080643	49.07	ppb	100
41) Caprolactam	5.480	113	332269	52.72	ppb	100
42) Hexachlorobutadiene	5.154	225	402418	48.56	ppb	100
43) 4-Chloro-3-methylphenol	5.651	107	818273	50.65	ppb	100
44) 2-Methylnaphthalene	5.796	141	1592799	48.92	ppb	100
45) 1-Methylnaphthalene	5.908	141	1807495	49.14	ppb	100
46) Dimethylnaphthalene	6.539	156	1735185	48.71	ppb	100
48) Hexachlorocyclopentadiene	5.999	237	952376	116.47	ppb	100
49) 2,4,6-Trichlorophenol	6.138	196	486449	51.55	ppb	100
50) 2,4,5-Trichlorophenol	6.181	196	540096	51.36	ppb	100
52) 2-Chloronaphthalene	6.368	162	1579554	47.17	ppb	100
53) Biphenyl	6.357	154	2373194	48.18	ppb	100
54) 2-Nitroaniline	6.502	65	497437	51.55	ppb	100
55) Dimethylphthalate	6.742	163	1739113	47.46	ppb	100
56) Acenaphthylene	6.860	152	2709006	49.16	ppb	100
57) 2,6-Dinitrotoluene	6.801	165	411829	52.84	ppb	100
58) 3-Nitroaniline	6.999	138	538797	44.31	ppb	# 53
59) Acenaphthene	7.074	153	1669572	84.07	ppb	# 24
60) 2,4-Dinitrophenol	7.122	184	430249	101.21	ppb	100
61) 4-Nitrophenol	7.224	109	271564	57.88	ppb	100
62) Dibenzofuran	7.283	168	2130295	46.84	ppb	100
63) 2,4-Dinitrotoluene	7.283	165	542757	69.64	ppb	99
64) 2,3,4,6-Tetrachlorophenol	7.438	232	393361	57.35	ppb	100
65) Diethylphthalate	7.609	149	1877382	49.13	ppb	100
66) Fluorene	7.695	166	1779032	48.26	ppb	100
67) 4-Chlorophenyl-phenyle...	7.711	204	725085	48.06	ppb	100
68) 4-Nitroaniline	7.743	138	511493	50.01	ppb	100
70) 4,6-Dinitro-2-methylph...	7.775	198	262958	49.93	ppb	100
71) n-Nitrosodiphenylamine	7.860	169	1197406	49.08	ppb	100
72) 1,2-Diphenylhydrazine	7.903	77	1846645	48.38	ppb	100
74) 4-Bromophenyl-phenylether	8.299	248	426802	49.57	ppb	100
75) Hexachlorobenzene	8.368	284	492290	48.61	ppb	100
76) Pentachlorophenol	8.615	266	662021	97.82	ppb	100
77) Phenanthrene	8.866	178	2454569	48.02	ppb	100
78) Anthracene	8.930	178	2461674	48.94	ppb	100
79) Carbazole	9.149	167	2881064	49.13	ppb	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1539\
 Data File : 2p37001.D
 Acq On : 28 May 2014 8:20 pm
 Operator : ashleyd
 Sample : icc1539-50
 Misc : op75027,e2p1539
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 29 16:22:47 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Thu May 29 15:57:46 2014
 Response via : Initial Calibration

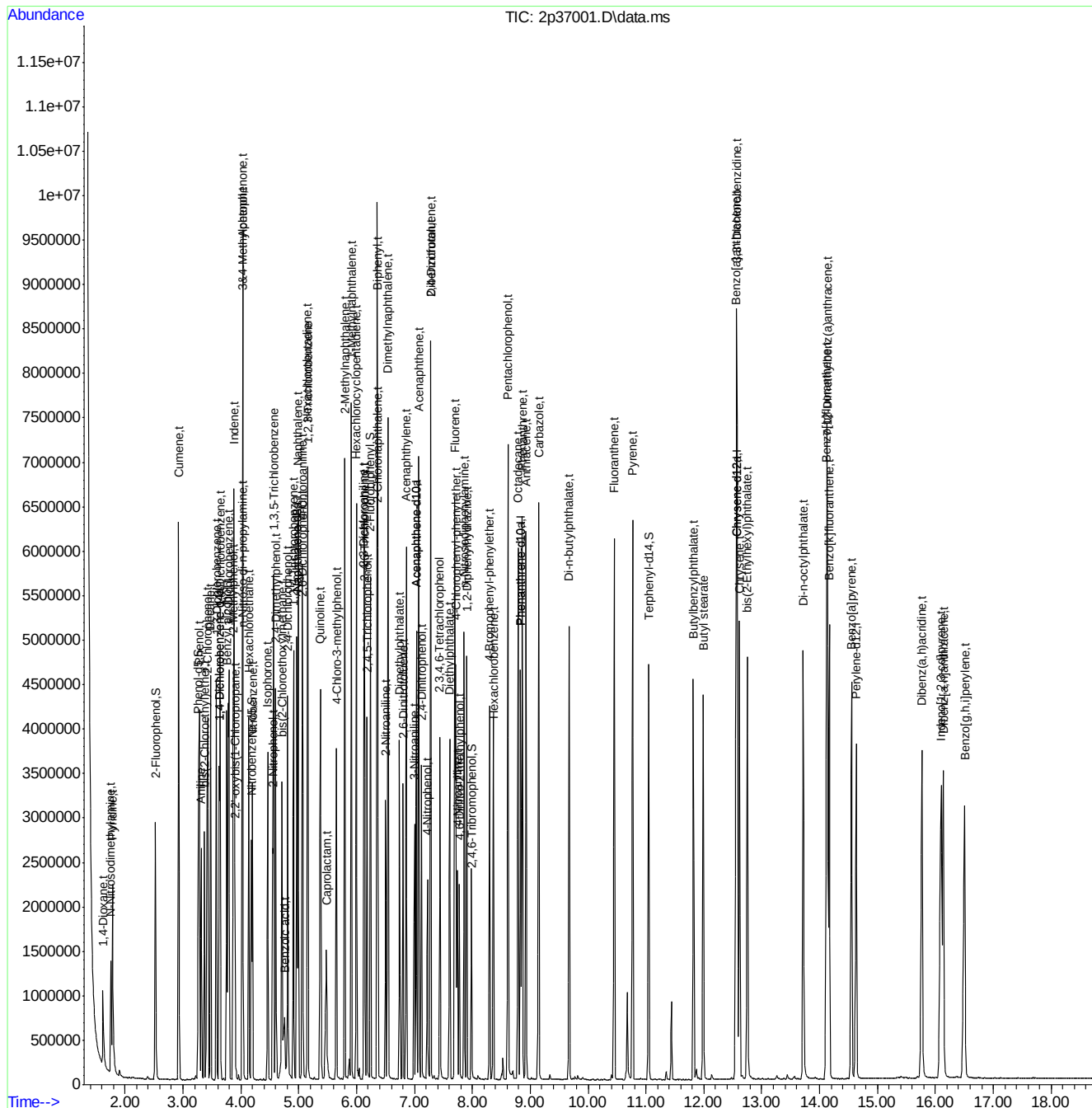
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) Di-n-butylphthalate	9.668	149	3302632	51.99	ppb	100
81) Fluoranthene	10.454	202	2732086	50.68	ppb	100
82) Octadecane	8.791	43	781574	48.42	ppb	100
84) Pyrene	10.770	202	2845162	49.90	ppb	100
86) Butylbenzylphthalate	11.824	149	1503544	56.25	ppb	100
87) Butyl stearate	11.990	56	800706	57.32	ppb	100
88) Benzo[a]anthracene	12.562	228	2403770	49.75	ppb	100
89) 3,3'-Dichlorobenzidine	12.567	252	860854	55.24	ppb	100
90) Chrysene	12.621	228	2083251	49.46	ppb	100
91) bis(2-Ethylhexyl)phtha...	12.749	149	1980166	55.34	ppb	100
93) Di-n-octylphthalate	13.712	149	3577933	50.22	ppb	100
94) Benzo[b]fluoranthene	14.124	252	2505381	54.30	ppb	100
95) Benzo[k]fluoranthene	14.166	252	2151541	51.09	ppb	100
96) Benzo[a]pyrene	14.557	252	2107498	53.91	ppb	100
97) Indeno[1,2,3-cd]pyrene	16.097	276	2567720m	54.85	ppb	
98) Dibenz(a,h)acridine	15.766	279	2177397	54.52	ppb	100
99) Dibenz[a,h]anthracene	16.140	278	2031429	54.44	ppb	100
100) 7,12-Dimethylbenz(a)an...	14.134	256	1208964	50.19	ppb	100
101) Benzo[g,h,i]perylene	16.509	276	2087004	54.81	ppb	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1539\
Data File : 2p37001.D
Acq On : 28 May 2014 8:20 pm
Operator : ashleyd
Sample : icc1539-50
Misc : op75027,e2p1539
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 29 16:22:47 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 29 15:57:46 2014
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: E2P1539-ICC1539

Method: SW846 8270D

Lab FileID: 2P37001.D

Analyst approved: 05/29/14 16:36 Olga Azarihn

Injection Time: 05/28/14 20:20

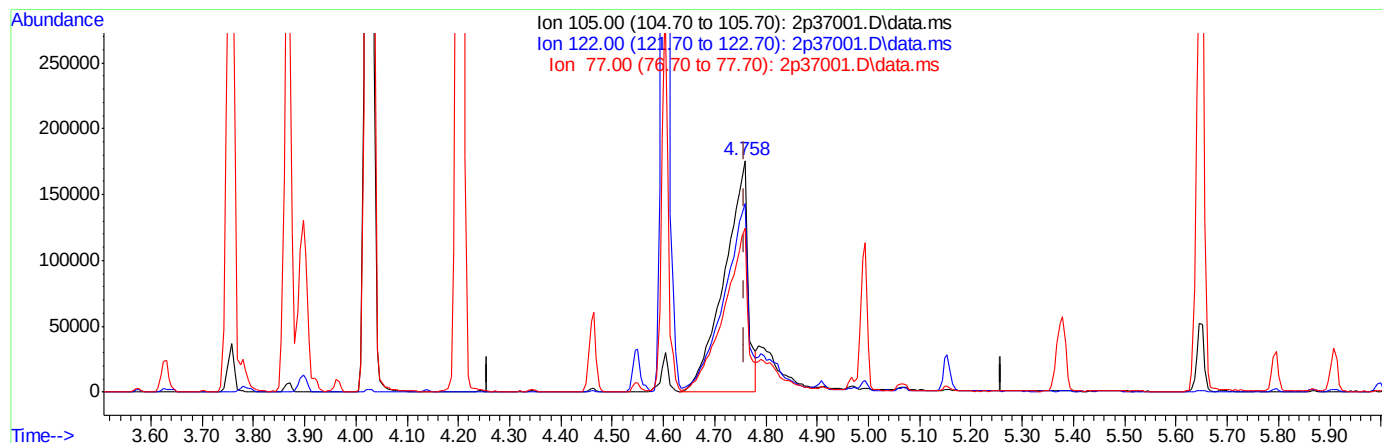
Supervisor approved: 05/30/14 13:01 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic Acid	65-85-0		4.76	Poor instrument integration
Indeno(1,2,3-cd)pyrene	193-39-5		16.10	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1539\
Data File : 2p37001.D
Acq On : 28 May 2014 8:20 pm
Operator : ashleyd
Sample : icc1539-50
Misc : op75027,e2p1539
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 29 07:59:14 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 29 07:58:46 2014
Response via : Initial Calibration



(31) Benzoic acid (t)

4.758min (0.000) 41.68ppb

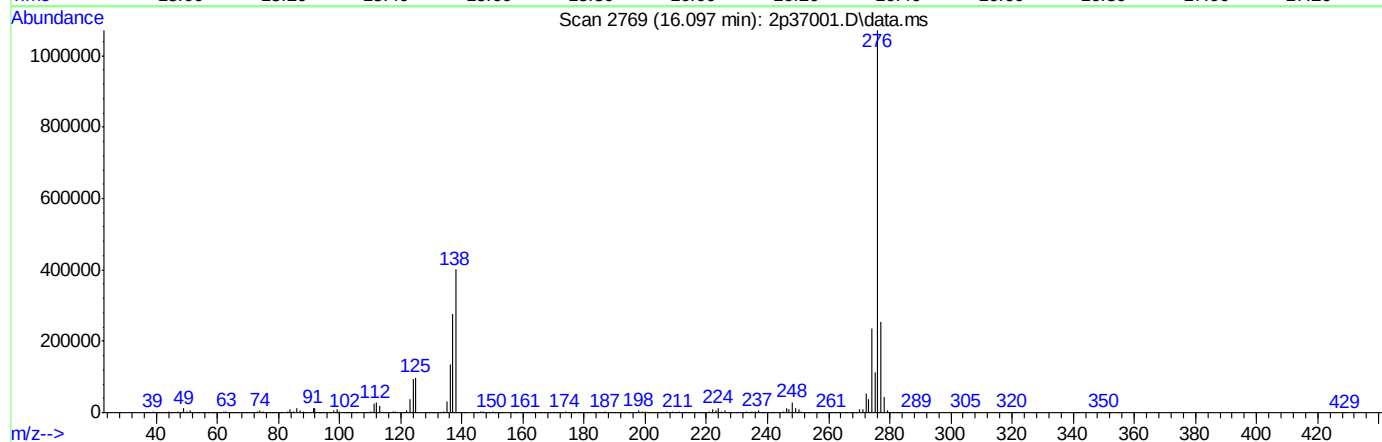
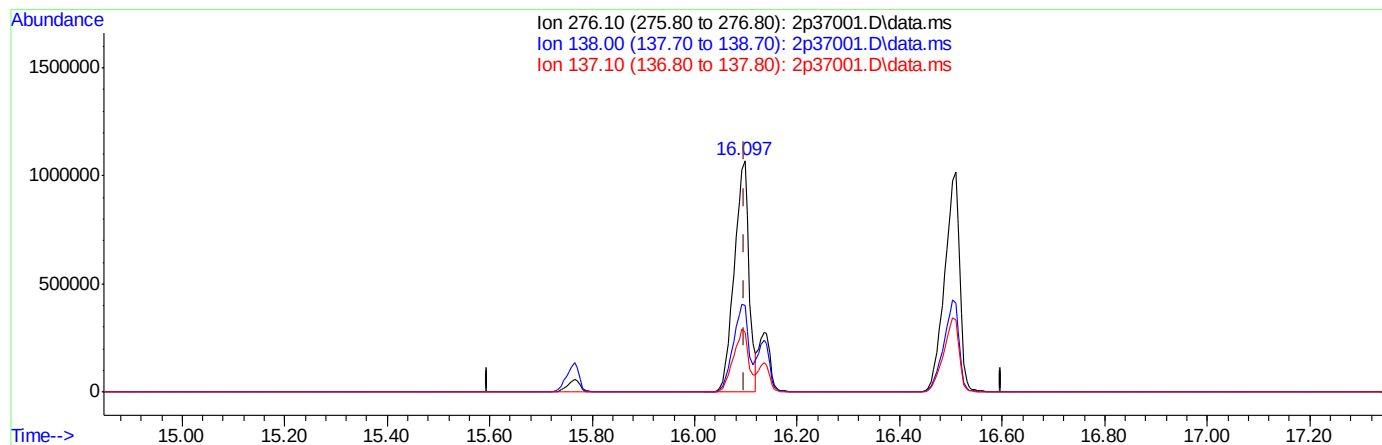
response 561762

Ion	Exp%	Act%
105.00	100	100
122.00	88.10	79.41
77.00	67.10	70.13
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1539\
Data File : 2p37001.D
Acq On : 28 May 2014 8:20 pm
Operator : ashleyd
Sample : icc1539-50
Misc : op75027,e2p1539
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 29 07:59:14 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 29 07:58:46 2014
Response via : Initial Calibration



TIC: 2p37001.D\data.ms

(97) Indeno[1,2,3-cd]pyrene (t)

16.097min (0.000) 50.00ppb

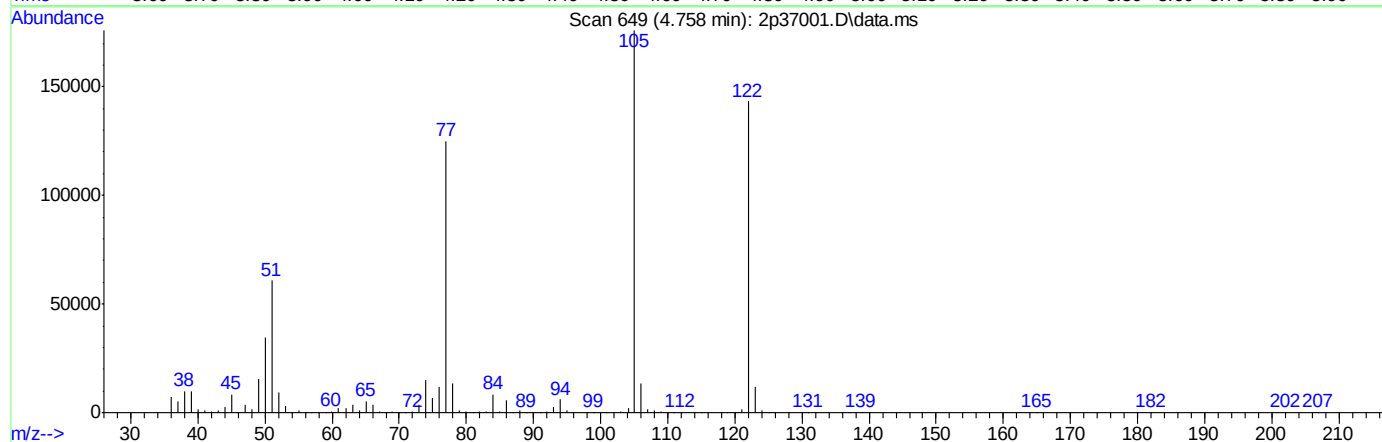
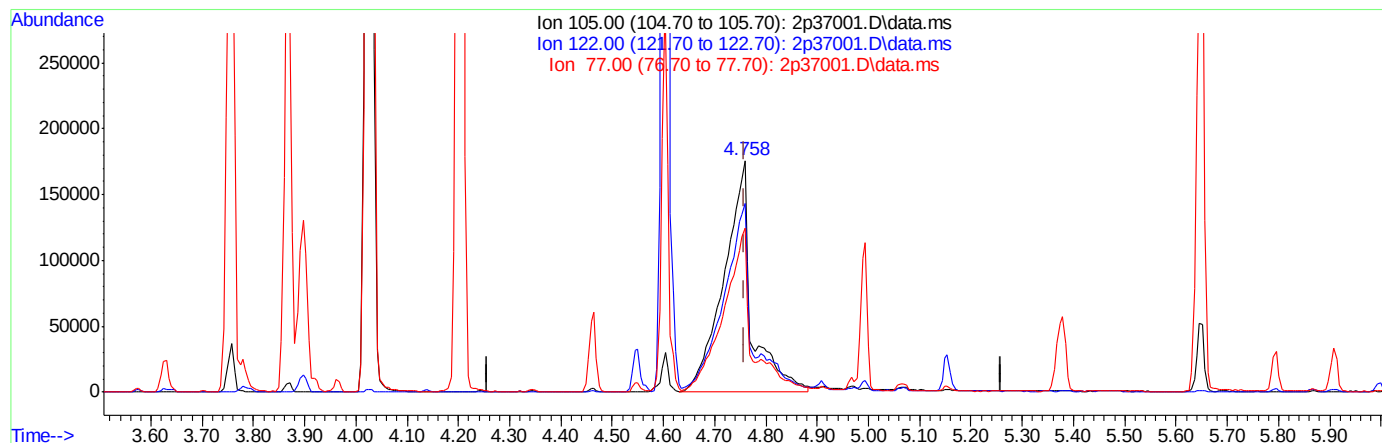
response 2143020

Ion	Exp%	Act%
276.10	100	100
138.00	29.40	33.55
137.10	21.30	24.21
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1539\
Data File : 2p37001.D
Acq On : 28 May 2014 8:20 pm
Operator : ashleyd
Sample : icc1539-50
Misc : op75027,e2p1539
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 29 15:58:47 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 29 15:57:46 2014
Response via : Initial Calibration



TIC: 2p37001.D\data.ms

(31) Benzoic acid (t)

4.758min (0.000) 51.39ppb m

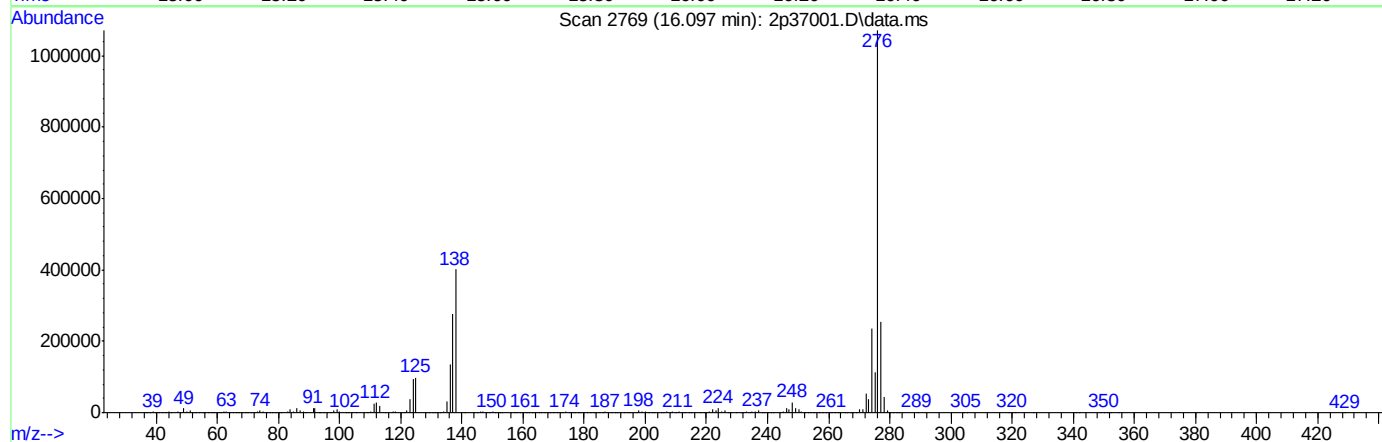
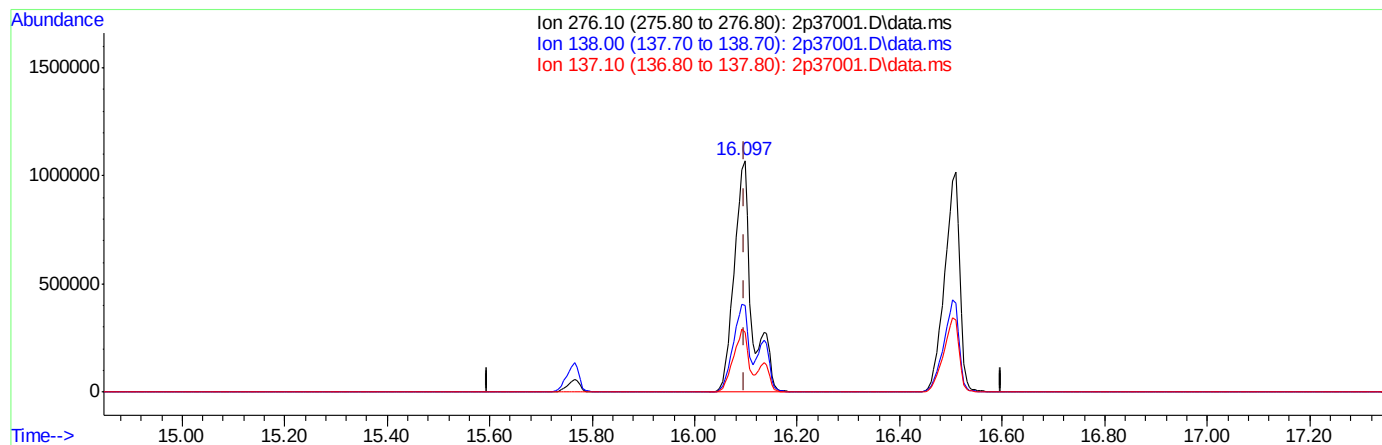
response 670254

Ion	Exp%	Act%
105.00	100	100
122.00	79.40	81.41
77.00	70.10	71.03
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1539\
Data File : 2p37001.D
Acq On : 28 May 2014 8:20 pm
Operator : ashleyd
Sample : icc1539-50
Misc : op75027,e2p1539
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 29 15:58:47 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 29 15:57:46 2014
Response via : Initial Calibration



TIC: 2p37001.D\data.ms

(97) Indeno[1,2,3-cd]pyrene (t)

16.097min (0.000) 54.85ppb m

response 2567720

Ion	Exp%	Act%
276.10	100	100
138.00	33.50	37.49
137.10	24.20	25.94
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1539\
 Data File : 2p37002.D
 Acq On : 28 May 2014 8:43 pm
 Operator : ashleyd
 Sample : ic1539-25
 Misc : op75027,e2p1539
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 29 16:23:45 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Thu May 29 16:09:27 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.624	152	575500	40.00	ppb	0.00
24) Naphthalene-d8	4.967	136	2176597	40.00	ppb	0.00
47) Acenaphthene-d10	7.031	164	1145483	40.00	ppb	0.00
69) Phenanthrene-d10	8.829	188	1782398	40.00	ppb	0.00
83) Chrysene-d12	12.573	240	1631386	40.00	ppb	0.00
92) Perylene-d12	14.626	264	1430351	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	3.624	152	575500	40.00	ppb	0.00
104) Acenaphthene-d10a	7.031	164	1145483	40.00	ppb	0.00
107) Chrysene-d12a	12.573	240	1631386	40.00	ppb	0.00
110) Phenanthrene-d10a	8.829	188	1782398	40.00	ppb	0.00
112) Naphthalene-d8a	4.967	136	2176597	40.00	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol	2.523	112	511403	25.95	ppb	0.00
Spiked Amount	50.000	Range	11 - 58	Recovery	=	51.90%
8) Phenol-d5	3.266	99	609117	26.03	ppb	0.00
Spiked Amount	50.000	Range	10 - 59	Recovery	=	52.06%
25) Nitrobenzene-d5	4.181	82	490372	26.06	ppb	0.00
Spiked Amount	50.000	Range	19 - 61	Recovery	=	52.12%
51) 2-Fluorobiphenyl	6.240	172	912895	26.45	ppb	0.00
Spiked Amount	50.000	Range	21 - 58	Recovery	=	52.90%
73) 2,4,6-Tribromophenol	7.983	330	101891	23.68	ppb	0.00
Spiked Amount	50.000	Range	12 - 68	Recovery	=	47.36%
85) Terphenyl-d14	11.043	244	843915	25.71	ppb	0.00
Spiked Amount	50.000	Range	16 - 65	Recovery	=	51.42%
108) 1-chlorooctadecane	0.000	57	0	0.00	ppb	
111) O-terphenyl	0.000	230	0	0.00	ppb	

Target Compounds

Qvalue

2) 1,4-Dioxane	1.624	88	221949	25.69	ppb	99
3) Pyridine	1.779	79	563086	25.78	ppb	97
4) N-Nitrosodimethylamine	1.752	74	285081	25.98	ppb	98
6) Indene	3.881	116	986846	27.50	ppb	100
7) Cumene	2.929	105	1421190	26.70	ppb	100
9) Phenol	3.277	94	647605	26.34	ppb	96
10) Aniline	3.314	93	674596	26.87	ppb	99
11) bis(2-Chloroethyl)ether	3.368	93	456266	26.53	ppb	98
12) 2-Chlorophenol	3.426	128	556659	26.59	ppb	99
13) Decane	3.475	57	577945	28.00	ppb	97
14) 1,3-Dichlorobenzene	3.576	146	601064	26.39	ppb	99
15) 1,4-Dichlorobenzene	3.640	146	593560	26.41	ppb	100
16) Benzyl alcohol	3.753	108	336446	26.14	ppb	98
17) 1,2-Dichlorobenzene	3.795	146	559853	26.72	ppb	99
18) Acetophenone	4.025	105	798694	27.08	ppb	94
19) 2-Methylphenol	3.865	108	462926	26.82	ppb	99
20) 2,2'-oxybis(1-Chloropr...	3.897	121	144854	26.74	ppb	# 89
21) 3&4-Methylphenol	4.025	108	475492	26.80	ppb	97
22) n-Nitroso-di-n-propyla...	4.031	70	313137	28.91	ppb	98
23) Hexachloroethane	4.138	201	182611	25.91	ppb	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1539\
 Data File : 2p37002.D
 Acq On : 28 May 2014 8:43 pm
 Operator : ashleyd
 Sample : ic1539-25
 Misc : op75027,e2p1539
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 29 16:23:45 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Thu May 29 16:09:27 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Nitrobenzene	4.202	77	503759	26.36	ppb	98
27) Quinoline	5.368	129	1176153	25.94	ppb	100
28) Isophorone	4.459	82	877635	26.41	ppb	99
29) 2-Nitrophenol	4.544	139	273318	25.73	ppb	94
30) 2,4-Dimethylphenol	4.598	107	443374	26.07	ppb	98
31) Benzoic acid	4.726	105	281112	23.54	ppb	99
32) bis(2-Chloroethoxy)met...	4.705	93	537759	26.31	ppb	100
33) 2,4-Dichlorophenol	4.812	162	406076	26.00	ppb	98
34) 2,6-Dichlorophenol	5.068	162	385015	26.10	ppb	97
35) 1,3,5-Trichlorobenzene	4.560	180	532002	26.40	ppb	98
36) 1,2,4-Trichlorobenzene	4.908	180	441333	25.96	ppb	99
37) 1,2,3-Trichlorobenzene	5.159	180	490776	26.41	ppb	99
38) Naphthalene	4.988	128	1471578	26.81	ppb	99
39) 4-Chloroaniline	5.058	127	643913	26.95	ppb	98
40) 2,3-Dichloroaniline	6.128	161	577914	26.01	ppb	99
41) Caprolactam	5.448	113	170715	25.37	ppb	92
42) Hexachlorobutadiene	5.154	225	216018	26.04	ppb	98
43) 4-Chloro-3-methylphenol	5.641	107	431430	25.77	ppb	98
44) 2-Methylnaphthalene	5.791	141	856624	26.18	ppb	99
45) 1-Methylnaphthalene	5.908	141	979129	26.65	ppb	99
46) Dimethylnaphthalene	6.539	156	943672	26.65	ppb	99
48) Hexachlorocyclopentadiene	5.994	237	477396	52.03	ppb	99
49) 2,4,6-Trichlorophenol	6.138	196	255560	25.86	ppb	98
50) 2,4,5-Trichlorophenol	6.176	196	280095	25.53	ppb	98
52) 2-Chloronaphthalene	6.363	162	869772	27.20	ppb	99
53) Biphenyl	6.352	154	1303140	27.49	ppb	99
54) 2-Nitroaniline	6.497	65	263991	26.31	ppb	99
55) Dimethylphthalate	6.737	163	937211	26.18	ppb	100
56) Acenaphthylene	6.855	152	1455306	26.79	ppb	99
57) 2,6-Dinitrotoluene	6.796	165	213809	25.82	ppb	99
58) 3-Nitroaniline	6.989	138	280046	25.82	ppb	93
59) Acenaphthene	7.069	153	893777	26.56	ppb	100
60) 2,4-Dinitrophenol	7.117	184	177076	47.98	ppb	92
61) 4-Nitrophenol	7.219	109	137861	25.73	ppb	93
62) Dibenzofuran	7.277	168	1169025	26.86	ppb	100
63) 2,4-Dinitrotoluene	7.277	165	289332	26.42	ppb	100
64) 2,3,4,6-Tetrachlorophenol	7.438	232	195933	24.98	ppb	94
65) Diethylphthalate	7.604	149	991358	26.15	ppb	100
66) Fluorene	7.689	166	967452	26.63	ppb	98
67) 4-Chlorophenyl-phenyle...	7.711	204	389664	26.24	ppb	96
68) 4-Nitroaniline	7.727	138	272578	26.24	ppb	93
70) 4,6-Dinitro-2-methylph...	7.764	198	115865	24.50	ppb	93
71) n-Nitrosodiphenylamine	7.855	169	622996	25.57	ppb	98
72) 1,2-Diphenylhydrazine	7.898	77	1013765	27.21	ppb	99
74) 4-Bromophenyl-phenylether	8.294	248	216307	24.65	ppb	96
75) Hexachlorobenzene	8.363	284	254654	24.73	ppb	96
76) Pentachlorophenol	8.609	266	307263	49.32	ppb	99
77) Phenanthrene	8.861	178	1307062	26.19	ppb	100
78) Anthracene	8.919	178	1320290	26.35	ppb	98
79) Carbazole	9.144	167	1537825	26.31	ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1539\
 Data File : 2p37002.D
 Acq On : 28 May 2014 8:43 pm
 Operator : ashleyd
 Sample : ic1539-25
 Misc : op75027,e2p1539
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 29 16:23:45 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Thu May 29 16:09:27 2014
 Response via : Initial Calibration

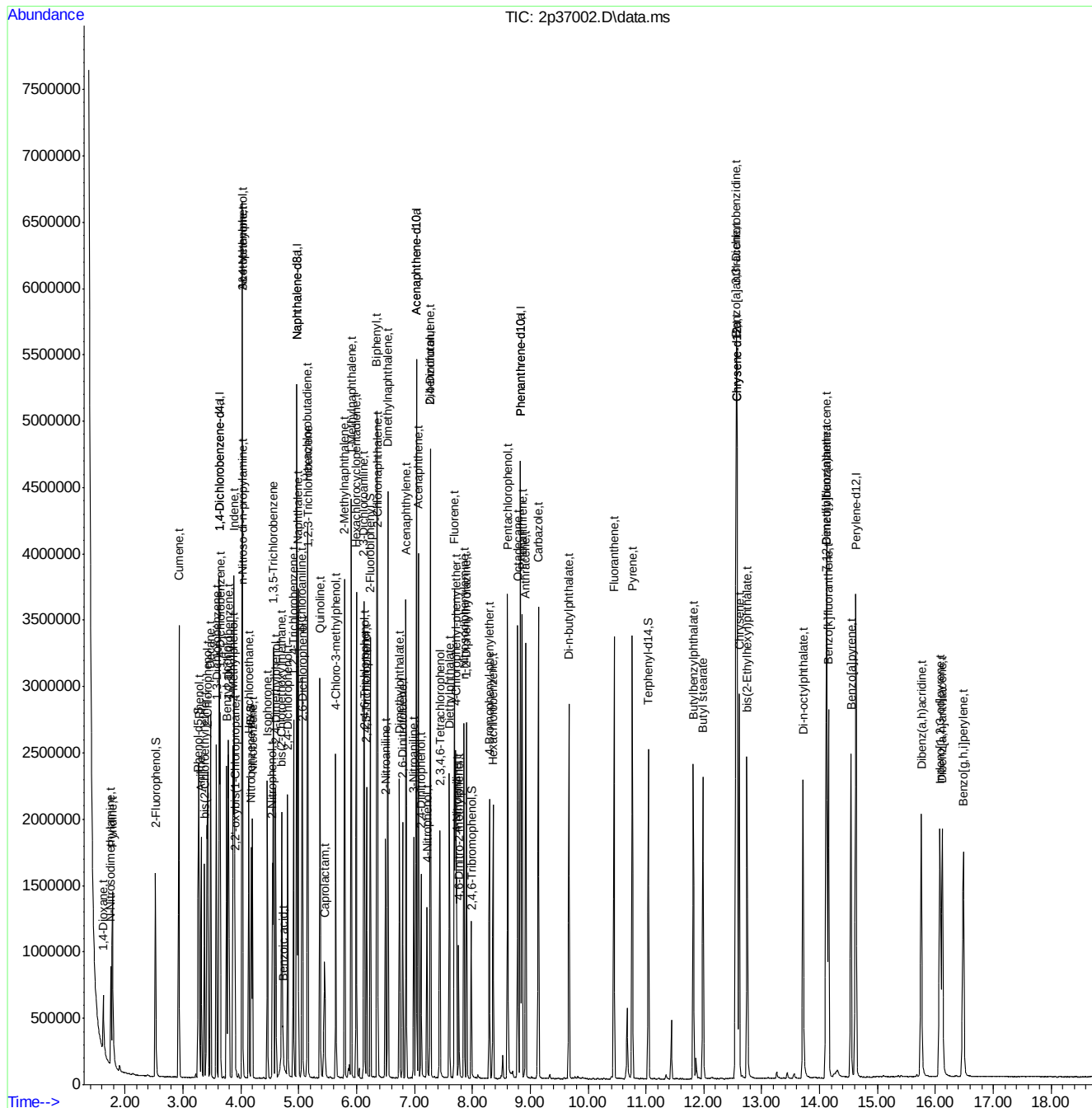
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) Di-n-butylphthalate	9.668	149	1711388	26.08	ppb	99
81) Fluoranthene	10.449	202	1409593	25.54	ppb	99
82) Octadecane	8.786	43	443271	28.16	ppb	95
84) Pyrene	10.759	202	1486394	26.32	ppb	99
86) Butylbenzylphthalate	11.818	149	746929	25.70	ppb	99
87) Butyl stearate	11.984	56	421039	27.60	ppb	96
88) Benzo[a]anthracene	12.557	228	1228702	25.79	ppb	99
89) 3,3'-Dichlorobenzidine	12.562	252	434352	25.58	ppb	99
90) Chrysene	12.610	228	1074666	25.84	ppb	100
91) bis(2-Ethylhexyl)phtha...	12.744	149	998443	26.21	ppb	99
93) Di-n-octylphthalate	13.712	149	1732011	24.40	ppb	99
94) Benzo[b]fluoranthene	14.113	252	1235733	24.53	ppb	99
95) Benzo[k]fluoranthene	14.156	252	1122846	26.58	ppb	99
96) Benzo[a]pyrene	14.546	252	1052952	25.02	ppb	99
97) Indeno[1,2,3-cd]pyrene	16.076	276	1288555m	30.38	ppb	
98) Dibenz(a,h)acridine	15.755	279	1063692	24.70	ppb	100
99) Dibenz[a,h]anthracene	16.119	278	1023892	25.19	ppb	95
100) 7,12-Dimethylbenz(a)an...	14.124	256	537799	24.53	ppb	99
101) Benzo[g,h,i]perylene	16.488	276	1039107	25.20	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1539\
Data File : 2p37002.D
Acq On : 28 May 2014 8:43 pm
Operator : ashleyd
Sample : ic1539-25
Misc : op75027,e2p1539
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 29 16:23:45 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 29 16:09:27 2014
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: E2P1539-IC1539

Method: SW846 8270D

Lab FileID: 2P37002.D

Analyst approved: 05/29/14 16:36 Olga Azarihn

Injection Time: 05/28/14 20:43

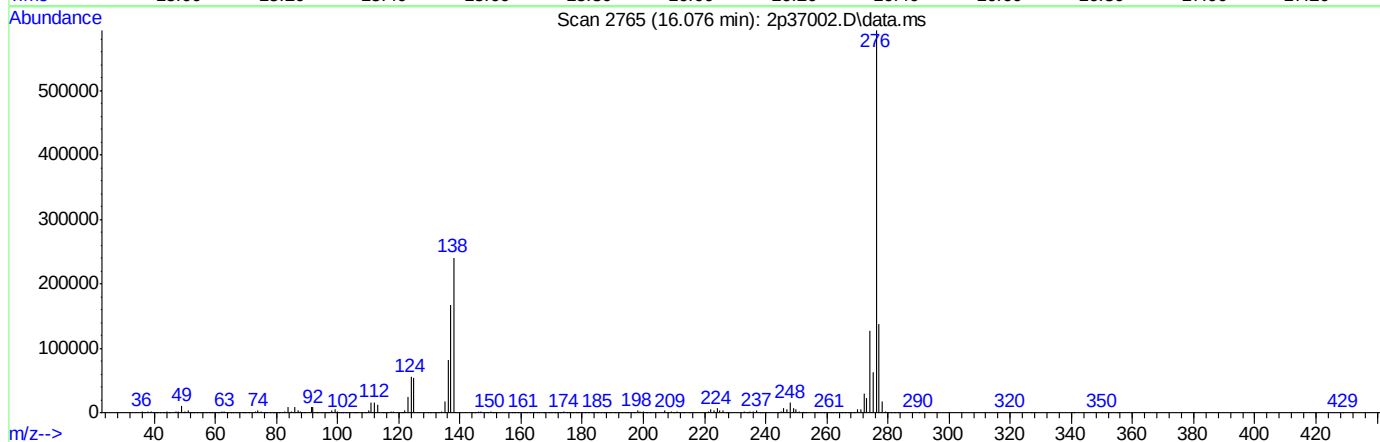
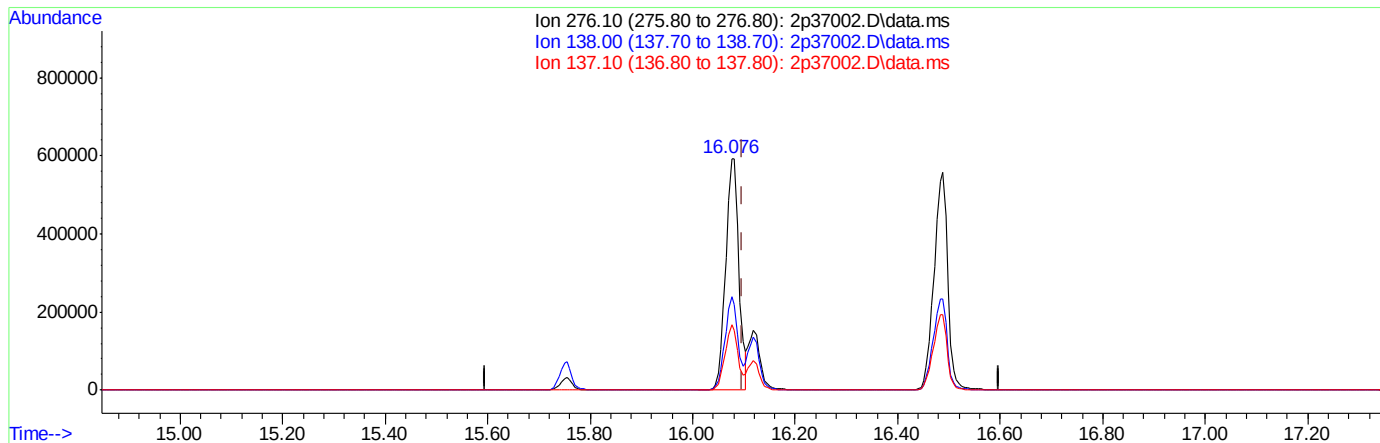
Supervisor approved: 05/30/14 13:01 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
Indeno(1,2,3-cd)pyrene	193-39-5		16.08	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1539\
Data File : 2p37002.D
Acq On : 28 May 2014 8:43 pm
Operator : ashleyd
Sample : ic1539-25
Misc : op75027,e2p1539
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 29 08:00:13 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 29 07:59:32 2014
Response via : Initial Calibration



TIC: 2p37002.D\data.ms

(97) Indeno[1,2,3-cd]pyrene (t)

16.076min (-0.021) 24.24ppb

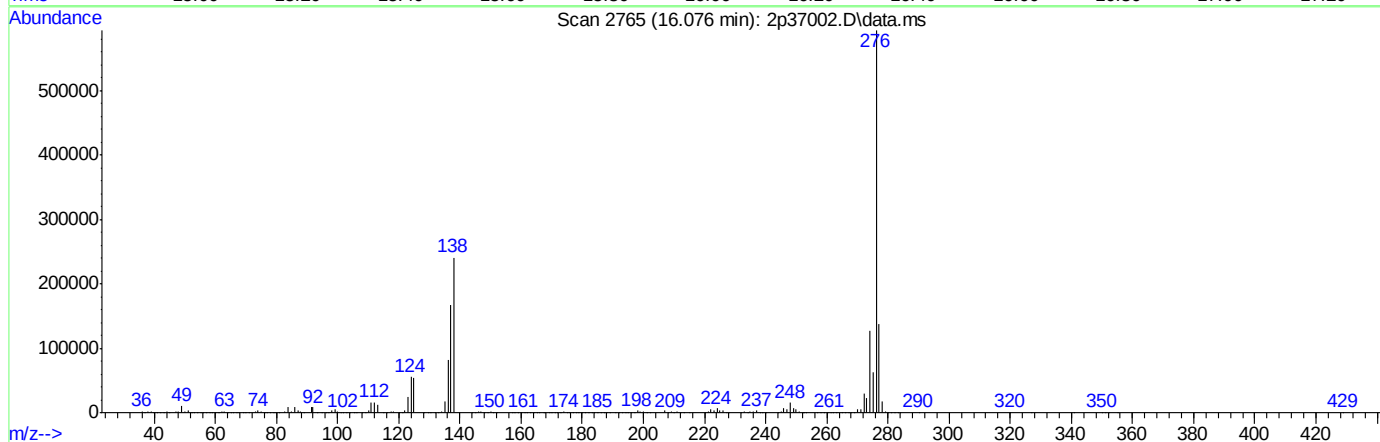
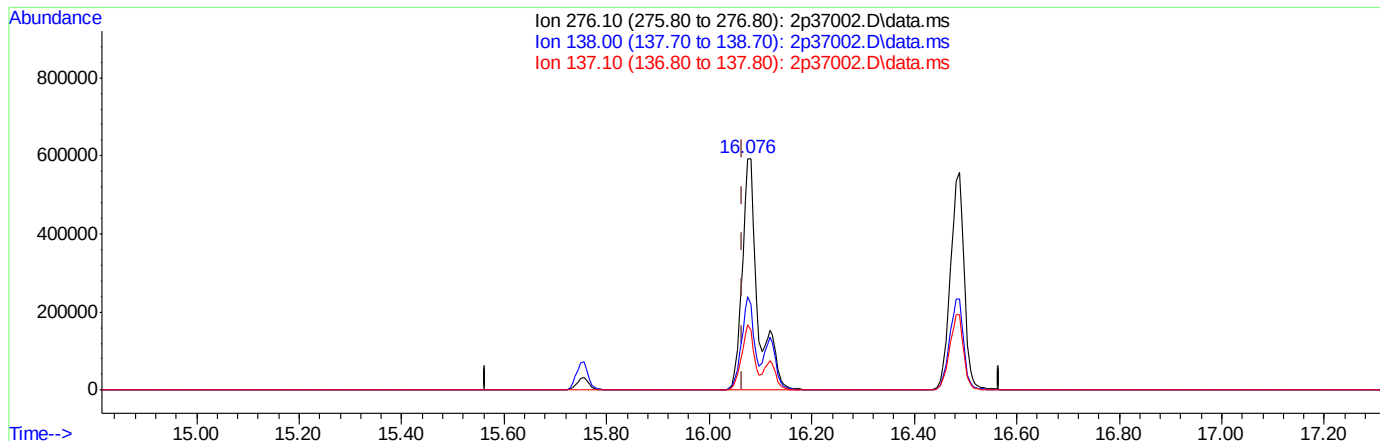
response 1047192

Ion	Exp%	Act%
276.10	100	100
138.00	33.50	37.64
137.10	24.20	27.14
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1539\
Data File : 2p37002.D
Acq On : 28 May 2014 8:43 pm
Operator : ashleyd
Sample : ic1539-25
Misc : op75027,e2p1539
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 29 16:12:38 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 29 16:09:27 2014
Response via : Initial Calibration



TIC: 2p37002.D\data.ms

(97) Indeno[1,2,3-cd]pyrene (t)

16.076min (+0.011) 30.38ppb m

response 1288555

Ion	Exp%	Act%
276.10	100	100
138.00	33.50	40.53
137.10	24.20	28.30
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1539\
 Data File : 2p37003.D
 Acq On : 28 May 2014 9:07 pm
 Operator : ashleyd
 Sample : ic1539-100
 Misc : op75027,e2p1539
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 29 16:24:40 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Thu May 29 16:06:08 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.630	152	681721	40.00	ppb	0.00
24) Naphthalene-d8	4.972	136	2597199	40.00	ppb	0.00
47) Acenaphthene-d10	7.037	164	1387557	40.00	ppb	0.00
69) Phenanthrene-d10	8.839	188	2115191	40.00	ppb	0.00
83) Chrysene-d12	12.588	240	2000791	40.00	ppb	0.00
92) Perylene-d12	14.637	264	1755351	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	3.630	152	681721	40.00	ppb	0.00
104) Acenaphthene-d10a	7.037	164	1387557	40.00	ppb	0.00
107) Chrysene-d12a	12.588	240	2000791	40.00	ppb	0.00
110) Phenanthrene-d10a	8.839	188	2115191	40.00	ppb	0.00
112) Naphthalene-d8a	4.972	136	2597199	40.00	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol	2.528	112	2246050	96.05	ppb	0.00
Spiked Amount	50.000	Range	11 - 58	Recovery	=	192.10%#
8) Phenol-d5	3.282	99	2601494	94.13	ppb	0.00
Spiked Amount	50.000	Range	10 - 59	Recovery	=	188.26%#
25) Nitrobenzene-d5	4.191	82	2096843	94.13	ppb	0.00
Spiked Amount	50.000	Range	19 - 61	Recovery	=	188.26%#
51) 2-Fluorobiphenyl	6.250	172	3786334	91.79	ppb	0.00
Spiked Amount	50.000	Range	21 - 58	Recovery	=	183.58%#
73) 2,4,6-Tribromophenol	7.994	330	574414	110.09	ppb	0.00
Spiked Amount	50.000	Range	12 - 68	Recovery	=	220.18%#
85) Terphenyl-d14	11.053	244	3938373	97.81	ppb	0.00
Spiked Amount	50.000	Range	16 - 65	Recovery	=	195.62%#
108) 1-chlorooctadecane	0.000	57	0d	0.00	ppb	
111) O-terphenyl	0.000	230	0d	0.00	ppb	

Target Compounds

Qvalue

2) 1,4-Dioxane	1.618	88	970735	95.49	ppb	98
3) Pyridine	1.779	79	2486774	96.33	ppb	99
4) N-Nitrosodimethylamine	1.752	74	1255778	96.21	ppb	98
6) Indene	3.886	116	3630570	86.21	ppb	98
7) Cumene	2.929	105	5747635	91.11	ppb	99
9) Phenol	3.298	94	2687050	92.36	ppb	92
10) Aniline	3.319	93	2623498	89.80	ppb	98
11) bis(2-Chloroethyl)ether	3.378	93	1869114	92.27	ppb	98
12) 2-Chlorophenol	3.437	128	2241446	90.96	ppb	96
13) Decane	3.480	57	2032600	84.29	ppb	96
14) 1,3-Dichlorobenzene	3.581	146	2506011	93.16	ppb	100
15) 1,4-Dichlorobenzene	3.646	146	2446394	92.34	ppb	99
16) Benzyl alcohol	3.769	108	1426941	93.69	ppb	100
17) 1,2-Dichlorobenzene	3.801	146	2242308	90.99	ppb	98
18) Acetophenone	4.036	105	3098548	89.57	ppb	93
19) 2-Methylphenol	3.881	108	1819860	89.95	ppb	99
20) 2,2'-oxybis(1-Chloropr...	3.902	121	578976	91.15	ppb	# 82
21) 3&4-Methylphenol	4.047	108	1902759	91.19	ppb	99
22) n-Nitroso-di-n-propyla...	4.047	70	757430	62.74	ppb	96
23) Hexachloroethane	4.143	201	802609	96.44	ppb	90

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1539\
 Data File : 2p37003.D
 Acq On : 28 May 2014 9:07 pm
 Operator : ashleyd
 Sample : ic1539-100
 Misc : op75027,e2p1539
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 29 16:24:40 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Thu May 29 16:06:08 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Nitrobenzene	4.218	77	2057362	91.56	ppb	94
27) Quinoline	5.405	129	5114748	95.28	ppb	100
28) Isophorone	4.480	82	3669470	93.28	ppb	100
29) 2-Nitrophenol	4.555	139	1219563	95.90	ppb	94
30) 2,4-Dimethylphenol	4.614	107	1975850	95.65	ppb	98
31) Benzoic acid	4.833	105	1713939m	109.43	ppb	
32) bis(2-Chloroethoxy)met...	4.715	93	2250164	93.03	ppb	99
33) 2,4-Dichlorophenol	4.822	162	1752294	94.64	ppb	100
34) 2,6-Dichlorophenol	5.084	162	1631060	93.33	ppb	97
35) 1,3,5-Trichlorobenzene	4.571	180	2186066	92.09	ppb	99
36) 1,2,4-Trichlorobenzene	4.913	180	1889793	93.99	ppb	98
37) 1,2,3-Trichlorobenzene	5.170	180	2000078	91.19	ppb	98
38) Naphthalene	4.999	128	5866217	89.99	ppb	98
39) 4-Chloroaniline	5.074	127	2470199	87.72	ppb	99
40) 2,3-Dichloroaniline	6.138	161	2471529	93.86	ppb	97
41) Caprolactam	5.523	113	786907m	97.35	ppb	
42) Hexachlorobutadiene	5.159	225	919234	93.66	ppb	99
43) 4-Chloro-3-methylphenol	5.673	107	1899199	95.28	ppb	96
44) 2-Methylnaphthalene	5.801	141	3585141	92.65	ppb	98
45) 1-Methylnaphthalene	5.919	141	3914273	89.97	ppb	99
46) Dimethylnaphthalene	6.550	156	3816557	90.82	ppb	99
48) Hexachlorocyclopentadiene	6.004	237	2167494	190.66	ppb	99
49) 2,4,6-Trichlorophenol	6.154	196	1154124	96.50	ppb	100
50) 2,4,5-Trichlorophenol	6.197	196	1282068	96.97	ppb	99
52) 2-Chloronaphthalene	6.379	162	3352798	87.85	ppb	98
53) Biphenyl	6.368	154	4824937	85.29	ppb	98
54) 2-Nitroaniline	6.518	65	1159410	95.01	ppb	98
55) Dimethylphthalate	6.758	163	4100673	95.25	ppb	99
56) Acenaphthylene	6.865	152	5913799	90.41	ppb	98
57) 2,6-Dinitrotoluene	6.817	165	959863	95.73	ppb	96
58) 3-Nitroaniline	7.015	138	1249867	95.39	ppb	100
59) Acenaphthene	7.079	153	3725476	91.92	ppb	97
60) 2,4-Dinitrophenol	7.144	184	1123413	221.82	ppb #	69
61) 4-Nitrophenol	7.251	109	653056	98.53	ppb	92
62) Dibenzofuran	7.293	168	4758898	91.18	ppb	98
63) 2,4-Dinitrotoluene	7.299	165	1239177	93.52	ppb	70
64) 2,3,4,6-Tetrachlorophenol	7.448	232	986314	101.95	ppb	93
65) Diethylphthalate	7.620	149	4261321	93.46	ppb	98
66) Fluorene	7.705	166	4011338	92.07	ppb	98
67) 4-Chlorophenyl-phenyle...	7.721	204	1663556	93.57	ppb	90
68) 4-Nitroaniline	7.769	138	1176999	94.04	ppb	96
70) 4,6-Dinitro-2-methylph...	7.796	198	666092	100.00	ppb	97
71) n-Nitrosodiphenylamine	7.871	169	2752902	96.09	ppb	99
72) 1,2-Diphenylhydrazine	7.908	77	3888684	88.72	ppb	97
74) 4-Bromophenyl-phenylether	8.310	248	1070626	102.76	ppb	90
75) Hexachlorobenzene	8.374	284	1256562	103.25	ppb	98
76) Pentachlorophenol	8.625	266	1690257	213.80	ppb	99
77) Phenanthrene	8.877	178	5539603	94.12	ppb	99
78) Anthracene	8.941	178	5539753	93.70	ppb	100
79) Carbazole	9.160	167	6464952	93.67	ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1539\
 Data File : 2p37003.D
 Acq On : 28 May 2014 9:07 pm
 Operator : ashleyd
 Sample : ic1539-100
 Misc : op75027,e2p1539
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 29 16:24:40 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Thu May 29 16:06:08 2014
 Response via : Initial Calibration

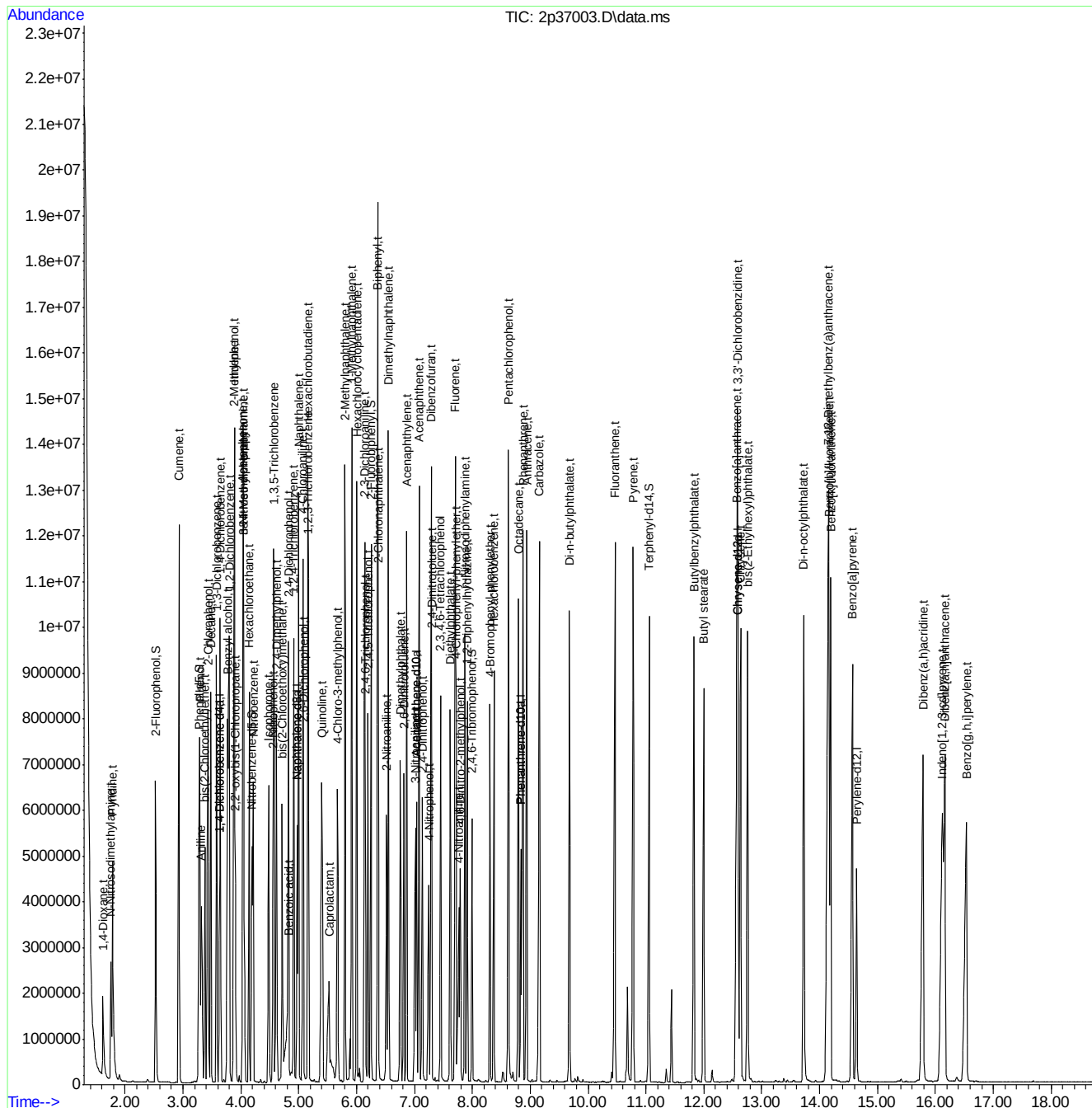
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) Di-n-butylphthalate	9.679	149	7307270	93.74	ppb	99
81) Fluoranthene	10.465	202	6339767	96.98	ppb	98
82) Octadecane	8.796	43	1541975	83.67	ppb	97
84) Pyrene	10.781	202	6489512	93.84	ppb	99
86) Butylbenzylphthalate	11.829	149	3481127	96.46	ppb	97
87) Butyl stearate	11.995	56	1635756	86.68	ppb	92
88) Benzo[a]anthracene	12.567	228	5637160	96.36	ppb	99
89) 3,3'-Dichlorobenzidine	12.583	252	2038530	97.43	ppb	97
90) Chrysene	12.637	228	4855309	95.65	ppb	99
91) bis(2-Ethylhexyl)phtha...	12.754	149	4520240	95.05	ppb	97
93) Di-n-octylphthalate	13.722	149	8126005	95.68	ppb	98
94) Benzo[b]fluoranthene	14.161	252	6539361	104.34	ppb	96
95) Benzo[k]fluoranthene	14.193	252	4529737	88.45	ppb	97
96) Benzo[a]pyrene	14.573	252	5121429	99.11	ppb	99
97) Indeno[1,2,3-cd]pyrene	16.113	276	6322195m	119.23	ppb	
98) Dibenz(a,h)acridine	15.787	279	5368604	100.81	ppb	100
99) Dibenz[a,h]anthracene	16.167	278	4960856	99.14	ppb	97
100) 7,12-Dimethylbenz(a)an...	14.156	256	3020412	104.75	ppb	98
101) Benzo[g,h,i]perylene	16.541	276	5012257	98.44	ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1539\
Data File : 2p37003.D
Acq On : 28 May 2014 9:07 pm
Operator : ashleyd
Sample : ic1539-100
Misc : op75027,e2p1539
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 29 16:24:40 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 29 16:06:08 2014
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: E2P1539-IC1539

Method: SW846 8270D

Lab FileID: 2P37003.D

Analyst approved: 05/29/14 16:36 Olga Azarihn

Injection Time: 05/28/14 21:07

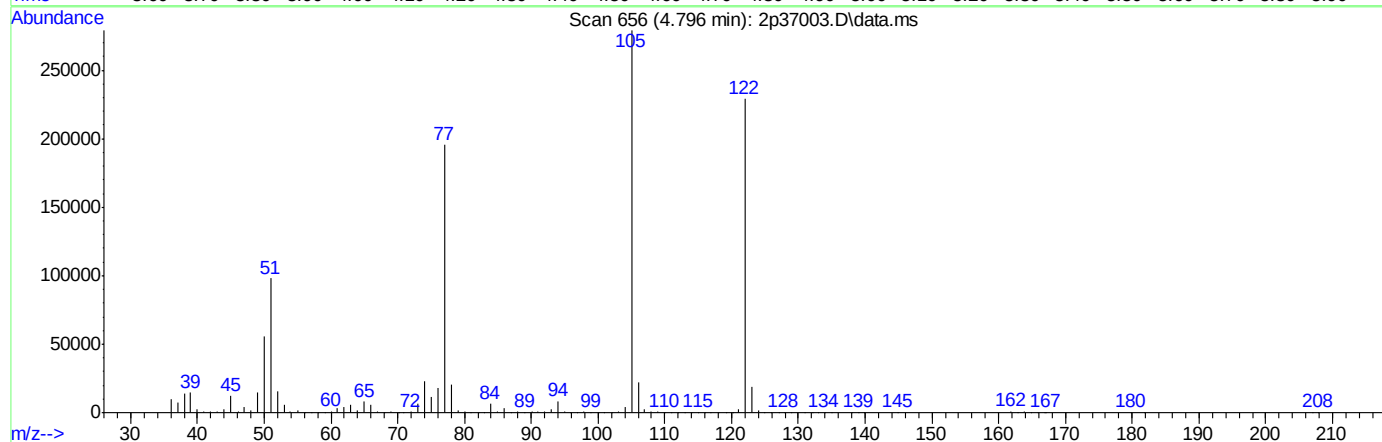
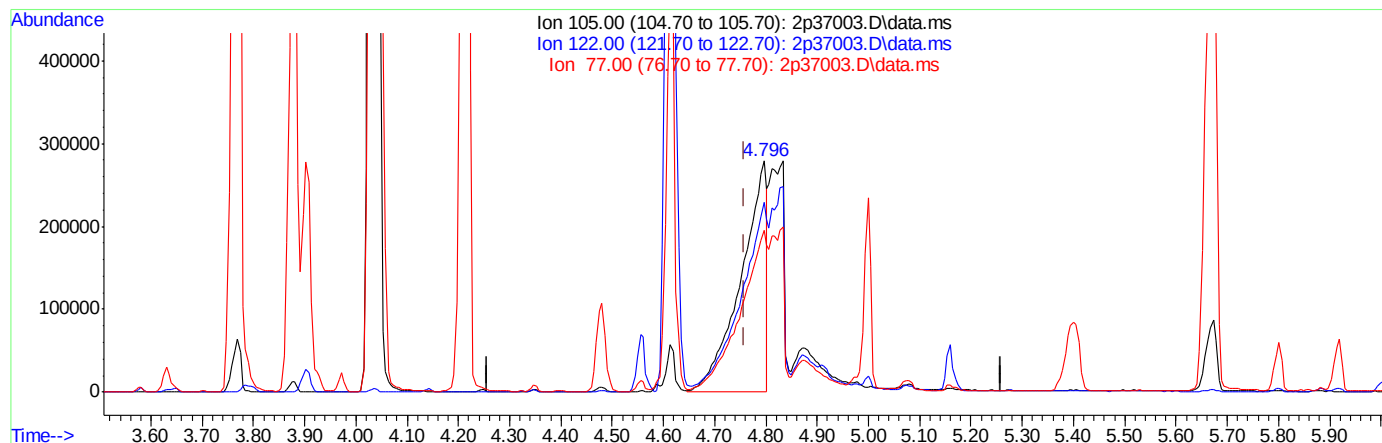
Supervisor approved: 05/30/14 13:01 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic Acid	65-85-0		4.83	Poor instrument integration
Caprolactam	105-60-2		5.52	Poor instrument integration
Indeno(1,2,3-cd)pyrene	193-39-5		16.11	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1539\
Data File : 2p37003.D
Acq On : 28 May 2014 9:07 pm
Operator : ashleyd
Sample : ic1539-100
Misc : op75027,e2p1539
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 29 08:00:34 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 29 08:00:23 2014
Response via : Initial Calibration



TIC: 2p37003.D\data.ms

(31) Benzoic acid (t)

4.796min (+0.037) 70.24ppb

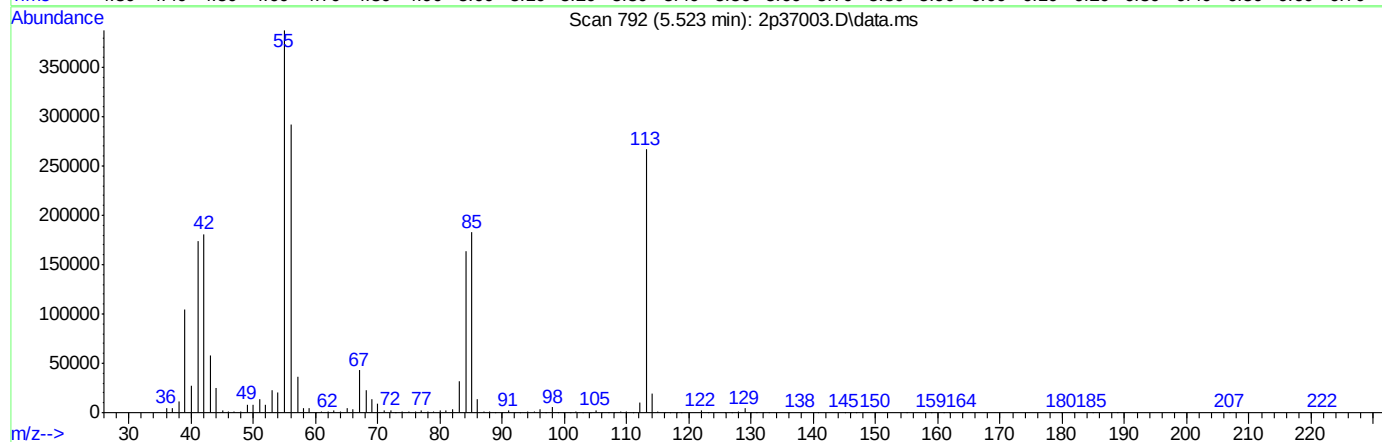
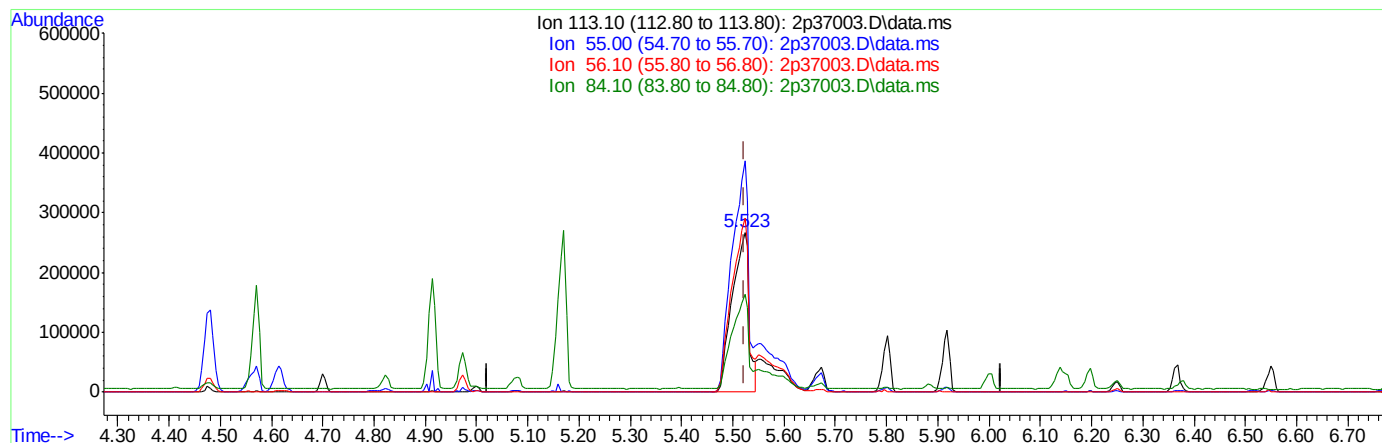
response 958595

Ion	Exp%	Act%
105.00	100	100
122.00	79.40	77.13
77.00	70.10	67.55
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1539\
Data File : 2p37003.D
Acq On : 28 May 2014 9:07 pm
Operator : ashleyd
Sample : ic1539-100
Misc : op75027,e2p1539
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 29 08:02:46 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 29 08:02:41 2014
Response via : Initial Calibration



TIC: 2p37003.D\data.ms

(41) Caprolactam (t)

5.523min (0.000) 74.66ppb

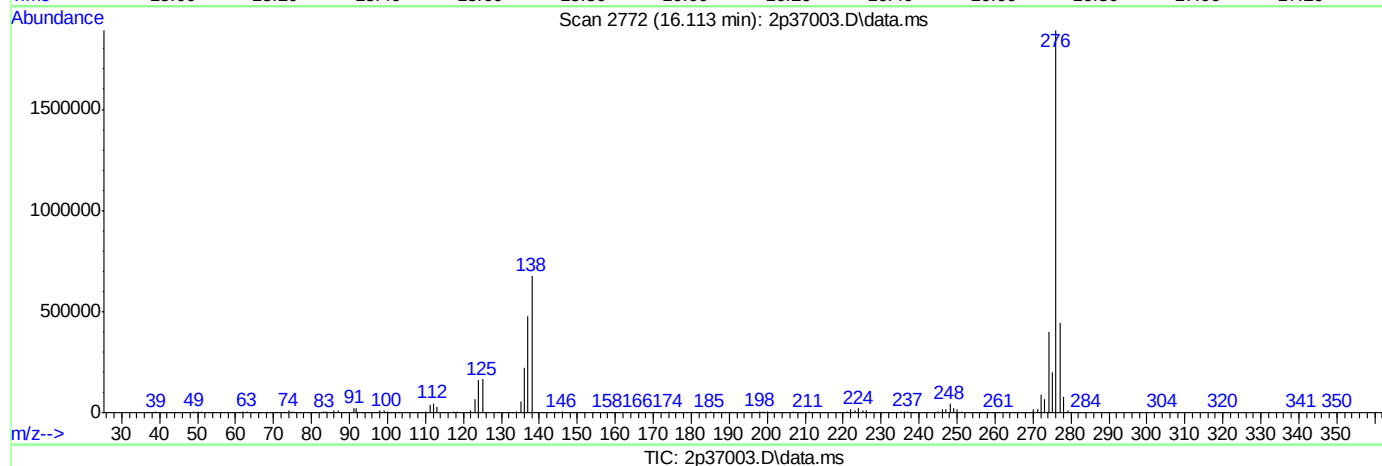
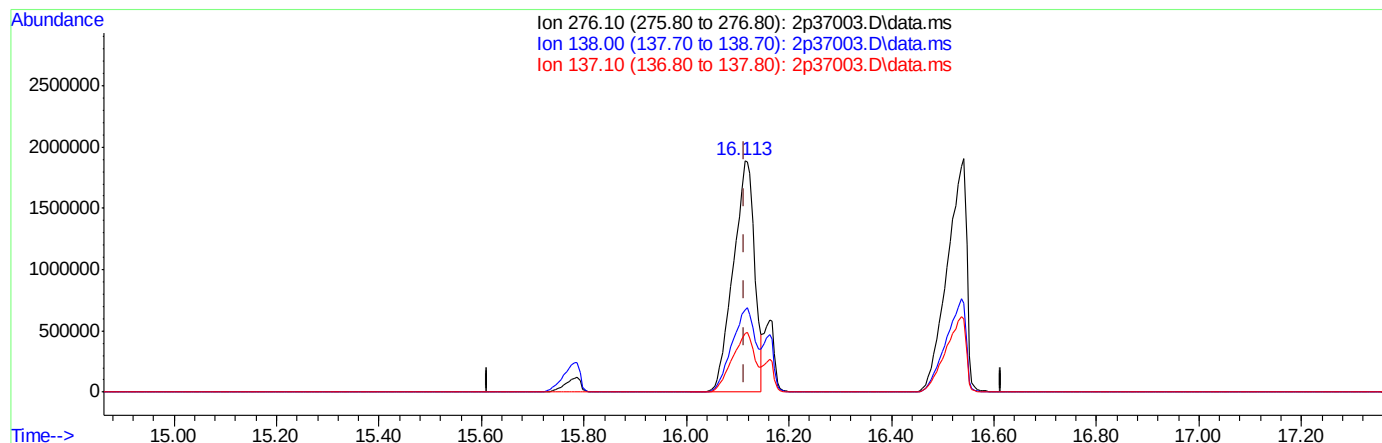
response 610529

Ion	Exp%	Act%
113.10	100	100
55.00	135.80	144.57
56.10	105.60	109.24
84.10	56.30	59.34

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1539\
Data File : 2p37003.D
Acq On : 28 May 2014 9:07 pm
Operator : ashleyd
Sample : ic1539-100
Misc : op75027,e2p1539
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 29 08:04:39 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 29 08:02:41 2014
Response via : Initial Calibration



(97) Indeno[1,2,3-cd]pyrene (t)

16.113min (0.000) 104.71ppb

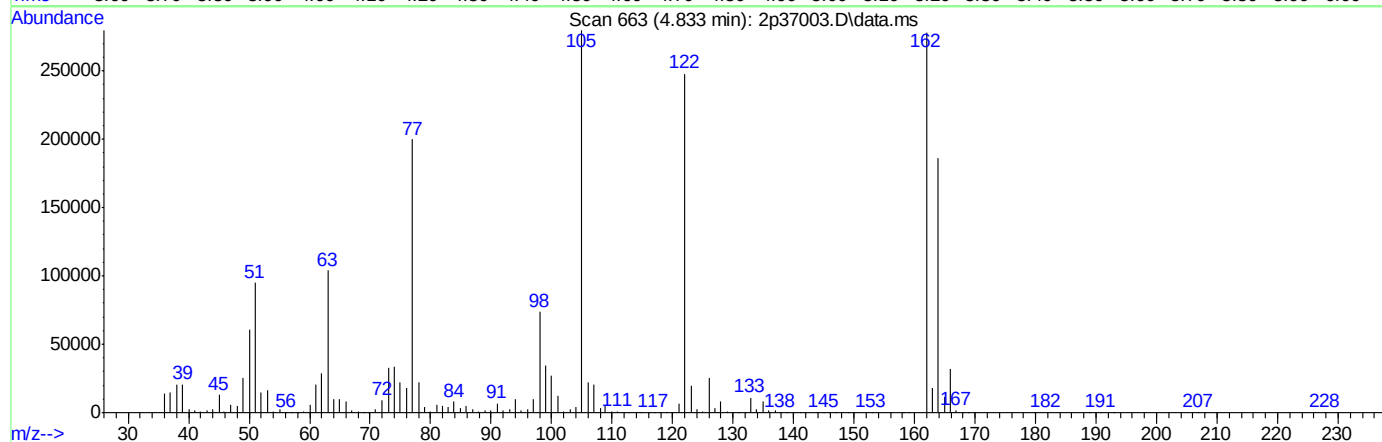
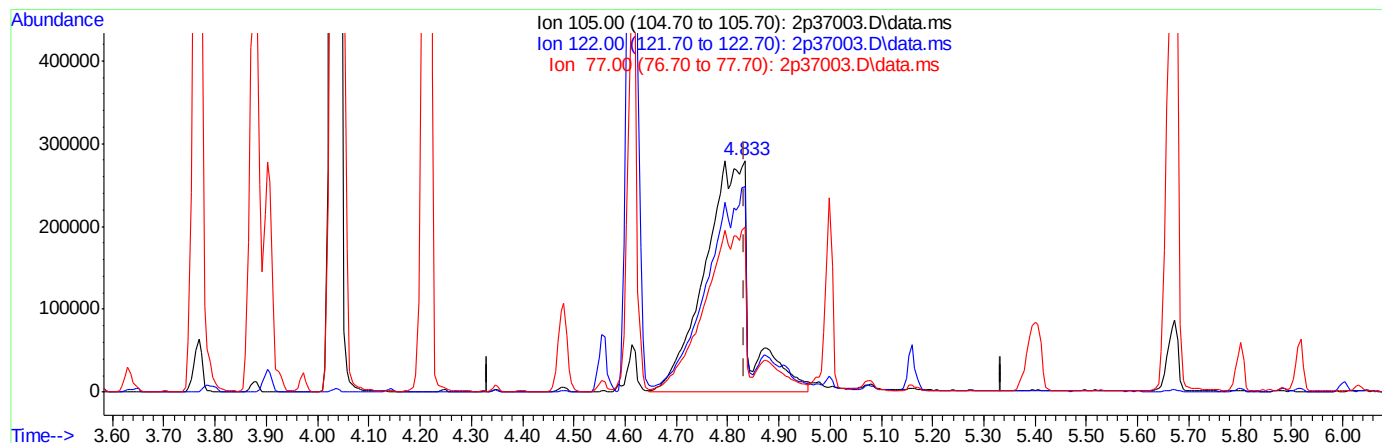
response 5466705

Ion	Exp%	Act%
276.10	100	100
138.00	33.50	30.17
137.10	24.20	22.62
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1539\
Data File : 2p37003.D
Acq On : 28 May 2014 9:07 pm
Operator : ashleyd
Sample : ic1539-100
Misc : op75027,e2p1539
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 29 16:06:49 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 29 16:06:08 2014
Response via : Initial Calibration



TIC: 2p37003.D\data.ms

(31) Benzoic acid (t)

4.833min (0.000) 109.43ppb m

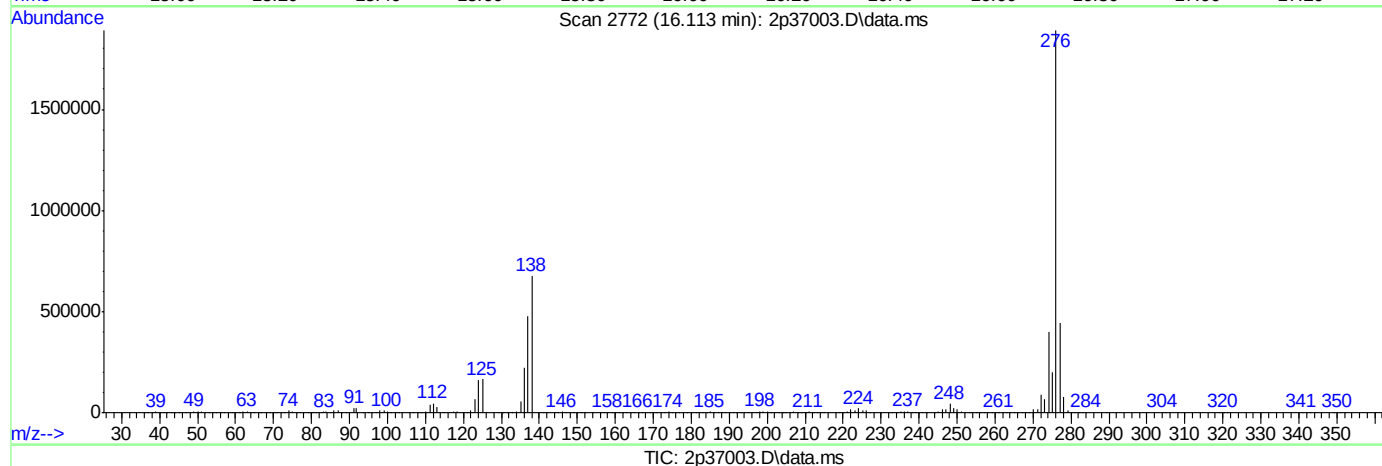
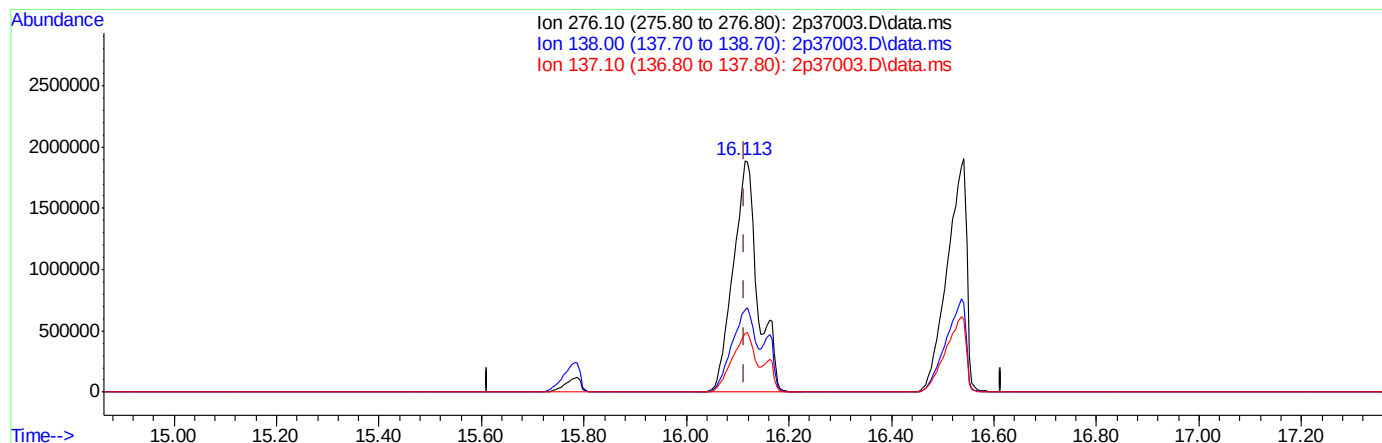
response 1713939

Ion	Exp%	Act%
105.00	100	100
122.00	81.40	88.72
77.00	71.00	71.53
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1539\
Data File : 2p37003.D
Acq On : 28 May 2014 9:07 pm
Operator : ashleyd
Sample : ic1539-100
Misc : op75027,e2p1539
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 29 16:06:49 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 29 16:06:08 2014
Response via : Initial Calibration



(97) Indeno[1,2,3-cd]pyrene (t)

16.113min (0.000) 119.23ppb m

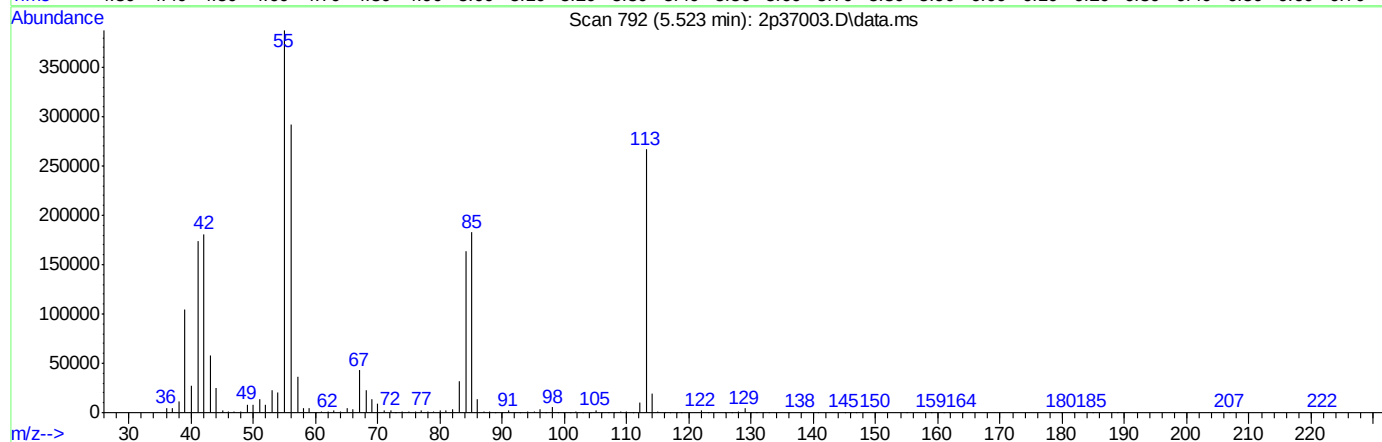
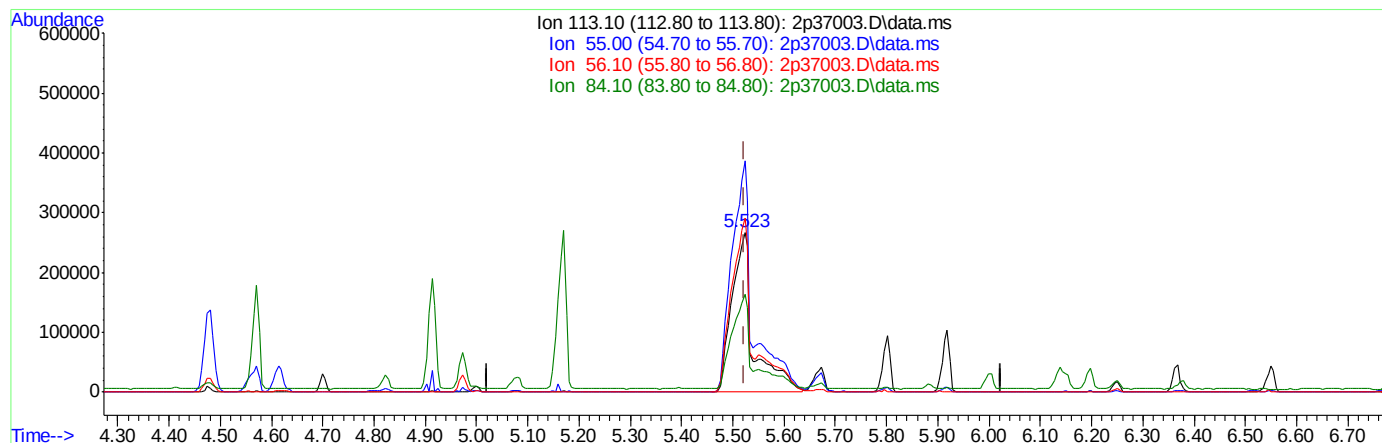
response 6322195

Ion	Exp%	Act%
276.10	100	100
138.00	33.50	35.69
137.10	24.20	25.13
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1539\
Data File : 2p37003.D
Acq On : 28 May 2014 9:07 pm
Operator : ashleyd
Sample : ic1539-100
Misc : op75027,e2p1539
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 29 16:24:40 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 29 16:06:08 2014
Response via : Initial Calibration



TIC: 2p37003.D\data.ms

(41) Caprolactam (t)

5.523min (0.000) 97.35ppb m

response 786907

Ion	Exp%	Act%
113.10	100	100
55.00	135.80	145.13
56.10	105.60	109.25
84.10	56.30	61.39

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1539\
 Data File : 2p37004.D
 Acq On : 28 May 2014 9:30 pm
 Operator : ashleyd
 Sample : ic1539-80
 Misc : op75027,e2p1539
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 29 16:26:12 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Thu May 29 16:07:01 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.630	152	669837	40.00	ppb	0.00
24) Naphthalene-d8	4.972	136	2568866	40.00	ppb	0.00
47) Acenaphthene-d10	7.037	164	1359866	40.00	ppb	0.00
69) Phenanthrene-d10	8.834	188	2090390	40.00	ppb	0.00
83) Chrysene-d12	12.583	240	1964184	40.00	ppb	0.00
92) Perylene-d12	14.637	264	1719721	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	3.630	152	669837	40.00	ppb	0.00
104) Acenaphthene-d10a	7.037	164	1359866	40.00	ppb	0.00
107) Chrysene-d12a	12.583	240	1964184	40.00	ppb	0.00
110) Phenanthrene-d10a	8.834	188	2090390	40.00	ppb	0.00
112) Naphthalene-d8a	4.972	136	2568866	40.00	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol	2.528	112	1848478	80.45	ppb	0.00
Spiked Amount	50.000	Range	11 - 58	Recovery	=	160.90%#
8) Phenol-d5	3.277	99	2158566	79.49	ppb	0.00
Spiked Amount	50.000	Range	10 - 59	Recovery	=	158.98%#
25) Nitrobenzene-d5	4.191	82	1722783	78.19	ppb	0.00
Spiked Amount	50.000	Range	19 - 61	Recovery	=	156.38%#
51) 2-Fluorobiphenyl	6.245	172	3191827	78.96	ppb	0.00
Spiked Amount	50.000	Range	21 - 58	Recovery	=	157.92%#
73) 2,4,6-Tribromophenol	7.989	330	450629	87.39	ppb	0.00
Spiked Amount	50.000	Range	12 - 68	Recovery	=	174.78%#
85) Terphenyl-d14	11.048	244	3210581	81.22	ppb	0.00
Spiked Amount	50.000	Range	16 - 65	Recovery	=	162.44%#
108) 1-chlorooctadecane	0.000	57	0d	0.00	ppb	
111) O-terphenyl	0.000	230	0	0.00	ppb	

Target Compounds

Qvalue

2) 1,4-Dioxane	1.619	88	794023	79.49	ppb	98
3) Pyridine	1.779	79	2031872	80.11	ppb	99
4) N-Nitrosodimethylamine	1.752	74	1023058	79.77	ppb	98
6) Indene	3.886	116	3128303	75.60	ppb	100
7) Cumene	2.929	105	4804405	77.51	ppb	99
9) Phenol	3.293	94	2213236	77.42	ppb	98
10) Aniline	3.319	93	2175300	75.78	ppb	98
11) bis(2-Chloroethyl)ether	3.378	93	1558806	78.32	ppb	96
12) 2-Chlorophenol	3.437	128	1879550	77.63	ppb	94
13) Decane	3.480	57	1738876	73.39	ppb	97
14) 1,3-Dichlorobenzene	3.576	146	2062635	78.04	ppb	99
15) 1,4-Dichlorobenzene	3.646	146	2045082	78.56	ppb	99
16) Benzyl alcohol	3.763	108	1180794	78.90	ppb	99
17) 1,2-Dichlorobenzene	3.801	146	1869421	77.21	ppb	100
18) Acetophenone	4.036	105	2554408	75.15	ppb	98
19) 2-Methylphenol	3.876	108	1547440	77.84	ppb	100
20) 2,2'-oxybis(1-Chloropr...	3.902	121	484595	77.64	ppb	# 83
21) 3&4-Methylphenol	4.041	108	1564602	76.31	ppb	99
22) n-Nitroso-di-n-propyla...	4.041	70	1019812	85.98	ppb	98
23) Hexachloroethane	4.143	201	656584	80.29	ppb	88

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1539\
 Data File : 2p37004.D
 Acq On : 28 May 2014 9:30 pm
 Operator : ashleyd
 Sample : ic1539-80
 Misc : op75027,e2p1539
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 29 16:26:12 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Thu May 29 16:07:01 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Nitrobenzene	4.213	77	1714007	77.12	ppb	97
27) Quinoline	5.395	129	4195080	79.01	ppb	100
28) Isophorone	4.475	82	3002356	77.17	ppb	100
29) 2-Nitrophenol	4.555	139	999243	79.45	ppb	96
30) 2,4-Dimethylphenol	4.614	107	1609526	78.77	ppb	96
31) Benzoic acid	4.812	105	1371039m	88.27	ppb	
32) bis(2-Chloroethoxy)met...	4.715	93	1857935	77.66	ppb	100
33) 2,4-Dichlorophenol	4.822	162	1463393	79.91	ppb	97
34) 2,6-Dichlorophenol	5.079	162	1353219	78.29	ppb	96
35) 1,3,5-Trichlorobenzene	4.571	180	1836566	78.22	ppb	99
36) 1,2,4-Trichlorobenzene	4.913	180	1560787	78.48	ppb	99
37) 1,2,3-Trichlorobenzene	5.165	180	1681823	77.52	ppb	99
38) Naphthalene	4.999	128	4813041	74.65	ppb	99
39) 4-Chloroaniline	5.068	127	2123436	76.24	ppb	99
40) 2,3-Dichloroaniline	6.133	161	2051932	78.79	ppb	99
41) Caprolactam	5.507	113	632963m	79.25	ppb	
42) Hexachlorobutadiene	5.154	225	769014	79.22	ppb	98
43) 4-Chloro-3-methylphenol	5.667	107	1552779	78.76	ppb	93
44) 2-Methylnaphthalene	5.801	141	2984796	77.99	ppb	98
45) 1-Methylnaphthalene	5.914	141	3291229	76.48	ppb	100
46) Dimethylnaphthalene	6.545	156	3172515	76.33	ppb	100
48) Hexachlorocyclopentadiene	5.999	237	1792105	160.85	ppb	98
49) 2,4,6-Trichlorophenol	6.149	196	940361	80.23	ppb	99
50) 2,4,5-Trichlorophenol	6.192	196	1049716	81.01	ppb	98
52) 2-Chloronaphthalene	6.373	162	2819334	75.38	ppb	99
53) Biphenyl	6.363	154	4185757	75.50	ppb	99
54) 2-Nitroaniline	6.513	65	932704	77.99	ppb	95
55) Dimethylphthalate	6.753	163	3325167	78.81	ppb	100
56) Acenaphthylene	6.866	152	4950554	77.23	ppb	99
57) 2,6-Dinitrotoluene	6.812	165	784655	79.85	ppb	95
58) 3-Nitroaniline	7.005	138	1021509	79.55	ppb	96
59) Acenaphthene	7.080	153	3081785	77.58	ppb	97
60) 2,4-Dinitrophenol	7.133	184	871861	175.65	ppb	97
61) 4-Nitrophenol	7.240	109	518196	79.77	ppb	96
62) Dibenzofuran	7.288	168	3946313	77.15	ppb	99
63) 2,4-Dinitrotoluene	7.293	165	1009770	77.76	ppb	83
64) 2,3,4,6-Tetrachlorophenol	7.443	232	789592	83.28	ppb	96
65) Diethylphthalate	7.614	149	3520884	78.79	ppb	99
66) Fluorene	7.700	166	3360269	78.69	ppb	99
67) 4-Chlorophenyl-phenyle...	7.716	204	1376633	79.01	ppb	94
68) 4-Nitroaniline	7.759	138	962657	78.48	ppb	96
70) 4,6-Dinitro-2-methylph...	7.786	198	530224	81.25	ppb	99
71) n-Nitrosodiphenylamine	7.866	169	2251225	79.51	ppb	99
72) 1,2-Diphenylhydrazine	7.909	77	3257479	75.20	ppb	94
74) 4-Bromophenyl-phenylether	8.304	248	851684	82.72	ppb	93
75) Hexachlorobenzene	8.369	284	1007641	83.78	ppb	96
76) Pentachlorophenol	8.620	266	1339519	171.45	ppb	99
77) Phenanthrene	8.871	178	4536040	77.99	ppb	99
78) Anthracene	8.935	178	4617481	79.03	ppb	99
79) Carbazole	9.155	167	5346476	78.39	ppb	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1539\
 Data File : 2p37004.D
 Acq On : 28 May 2014 9:30 pm
 Operator : ashleyd
 Sample : ic1539-80
 Misc : op75027,e2p1539
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 29 16:26:12 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Thu May 29 16:07:01 2014
 Response via : Initial Calibration

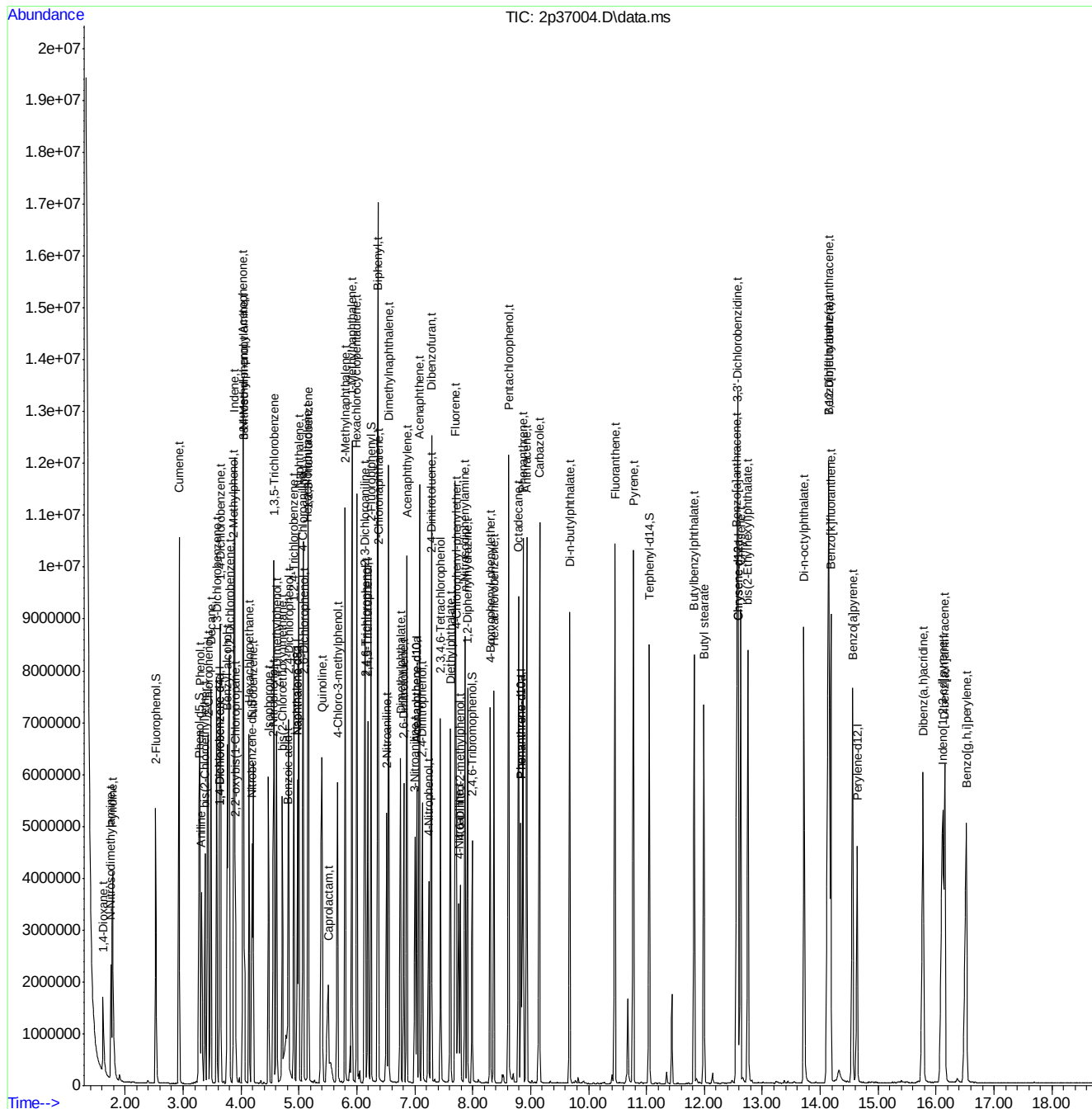
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) Di-n-butylphthalate	9.674	149	5975851	77.57	ppb	99
81) Fluoranthene	10.460	202	5164093	79.93	ppb	99
82) Octadecane	8.791	43	1321866	72.58	ppb	98
84) Pyrene	10.775	202	5320537	78.37	ppb	100
86) Butylbenzylphthalate	11.824	149	2802682	79.11	ppb	99
87) Butyl stearate	11.990	56	1366180	73.74	ppb	95
88) Benzo[a]anthracene	12.562	228	4608977	80.26	ppb	99
89) 3,3'-Dichlorobenzidine	12.578	252	1685236	82.05	ppb	96
90) Chrysene	12.626	228	3979942	79.87	ppb	99
91) bis(2-Ethylhexyl)phtha...	12.749	149	3675585	78.73	ppb	98
93) Di-n-octylphthalate	13.717	149	6719227	80.76	ppb	98
94) Benzo[b]fluoranthene	14.145	252	5070574	82.58	ppb	96
95) Benzo[k]fluoranthene	14.182	252	3928363	78.30	ppb	98
96) Benzo[a]pyrene	14.568	252	4094615	80.88	ppb	98
97) Indeno[1,2,3-cd]pyrene	16.113	276	5027344m	96.77	ppb	
98) Dibenz(a,h)acridine	15.782	279	4325964	82.92	ppb	99
99) Dibenz[a,h]anthracene	16.151	278	4008366	81.76	ppb	99
100) 7,12-Dimethylbenz(a)an...	14.145	256	2432147	86.09	ppb	98
101) Benzo[g,h,i]perylene	16.531	276	4054424	81.28	ppb	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

```
Data Path   : C:\msdchem\1\DATA\2P1539\
Data File   : 2p37004.D
Acq On      : 28 May 2014    9:30 pm
Operator    : ashleyd
Sample      : ic1539-80
Misc        : op75027,e2p1539
ALS Vial    : 5      Sample Multiplier: 1
```

Quant Time: May 29 16:26:12 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 29 16:07:01 2014
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: E2P1539-IC1539

Method: SW846 8270D

Lab FileID: 2P37004.D

Analyst approved: 05/29/14 16:36 Olga Azarihn

Injection Time: 05/28/14 21:30

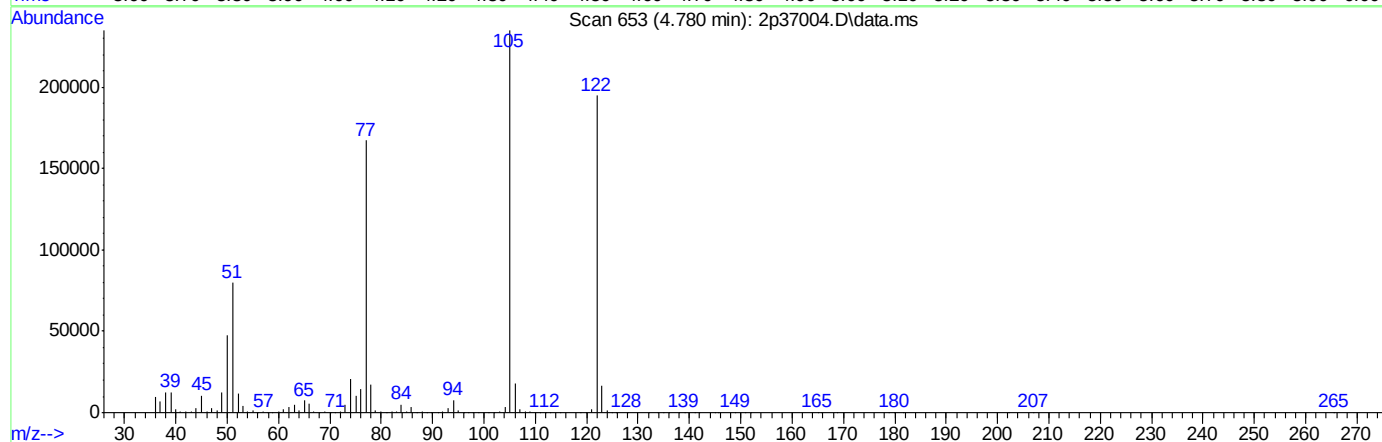
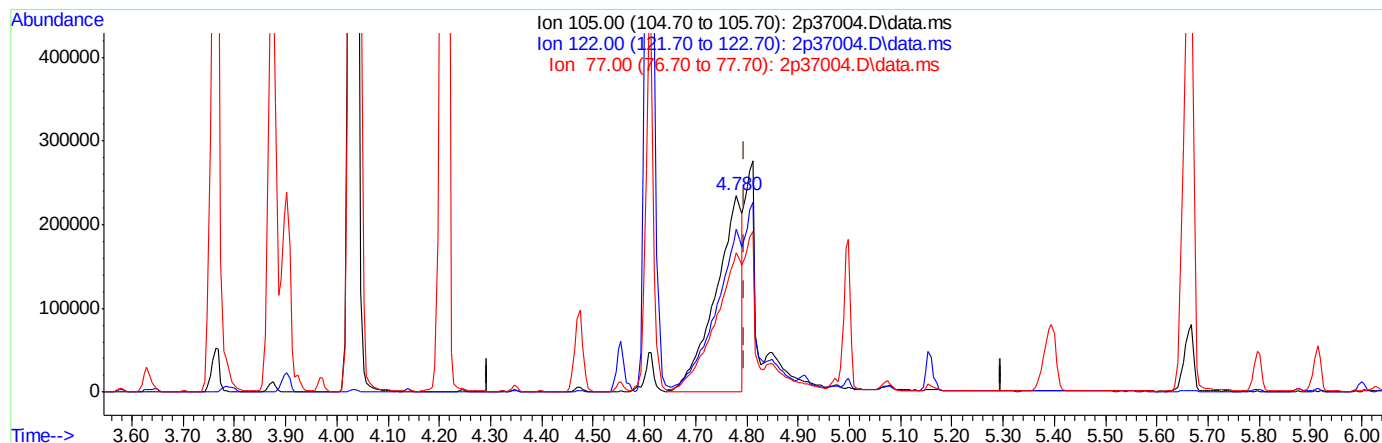
Supervisor approved: 05/30/14 13:01 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic Acid	65-85-0		4.81	Poor instrument integration
Caprolactam	105-60-2		5.51	Poor instrument integration
Indeno(1,2,3-cd)pyrene	193-39-5		16.11	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1539\
Data File : 2p37004.D
Acq On : 28 May 2014 9:30 pm
Operator : ashleyd
Sample : ic1539-80
Misc : op75027,e2p1539
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 29 08:05:11 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 29 08:04:54 2014
Response via : Initial Calibration



(31) Benzoic acid (t)

4.780min (-0.016) 56.47ppb

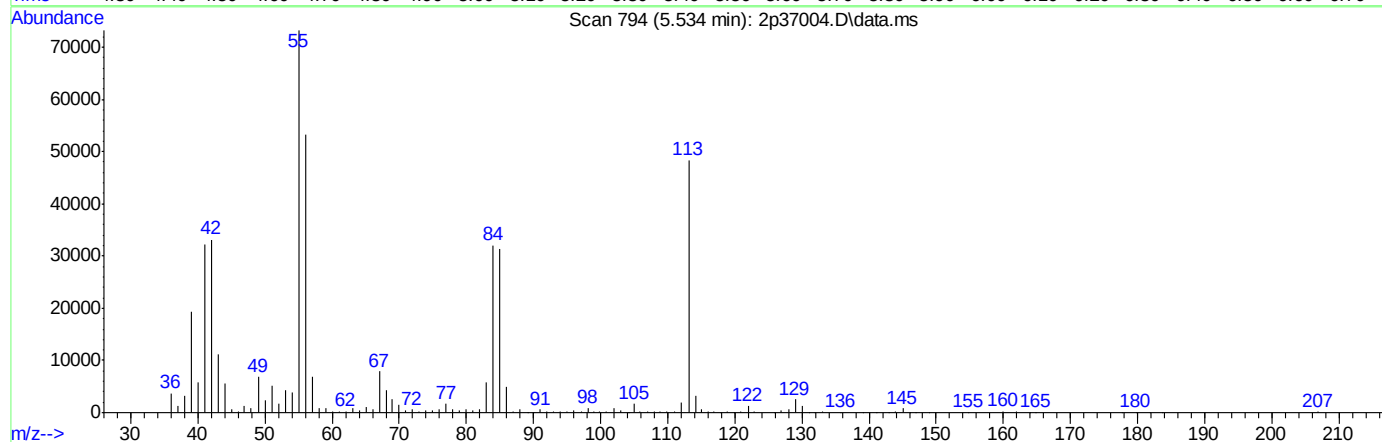
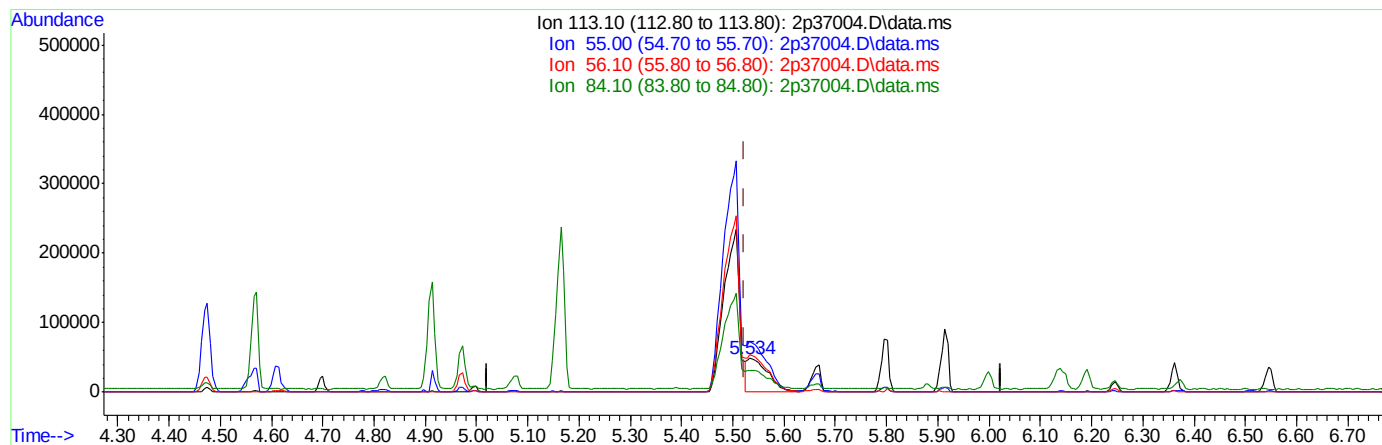
response 829355

Ion	Exp%	Act%
105.00	100	100
122.00	79.40	80.81
77.00	70.10	70.24
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1539\
Data File : 2p37004.D
Acq On : 28 May 2014 9:30 pm
Operator : ashleyd
Sample : ic1539-80
Misc : op75027,e2p1539
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 29 08:05:11 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 29 08:04:54 2014
Response via : Initial Calibration



TIC: 2p37004.D\data.ms

(41) Caprolactam (t)

5.534min (+0.011) 17.06ppb

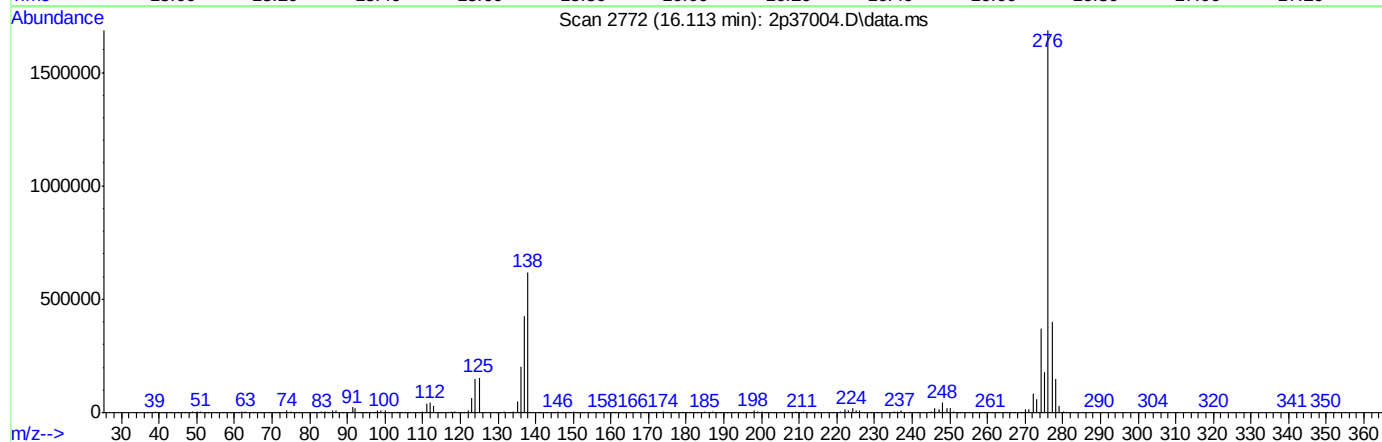
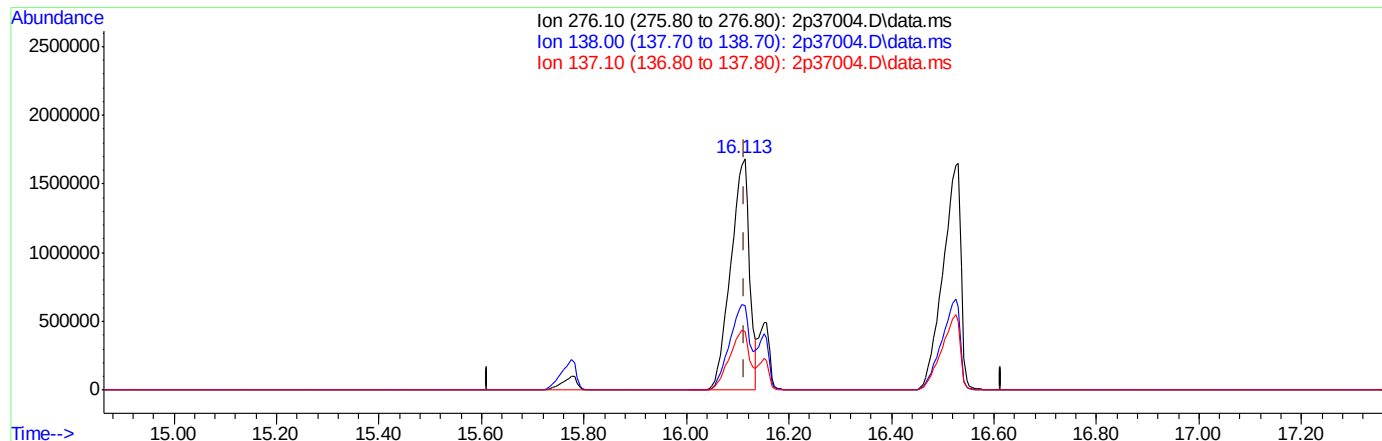
response 136286

Ion	Exp%	Act%
113.10	100	100
55.00	135.80	152.88
56.10	105.60	109.73
84.10	56.30	55.74

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1539\
Data File : 2p37004.D
Acq On : 28 May 2014 9:30 pm
Operator : ashleyd
Sample : ic1539-80
Misc : op75027,e2p1539
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 29 08:05:48 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 29 08:04:54 2014
Response via : Initial Calibration



TIC: 2p37004.D\data.ms

(97) Indeno[1,2,3-cd]pyrene (t)

16.113min (+0.000) 82.87ppb

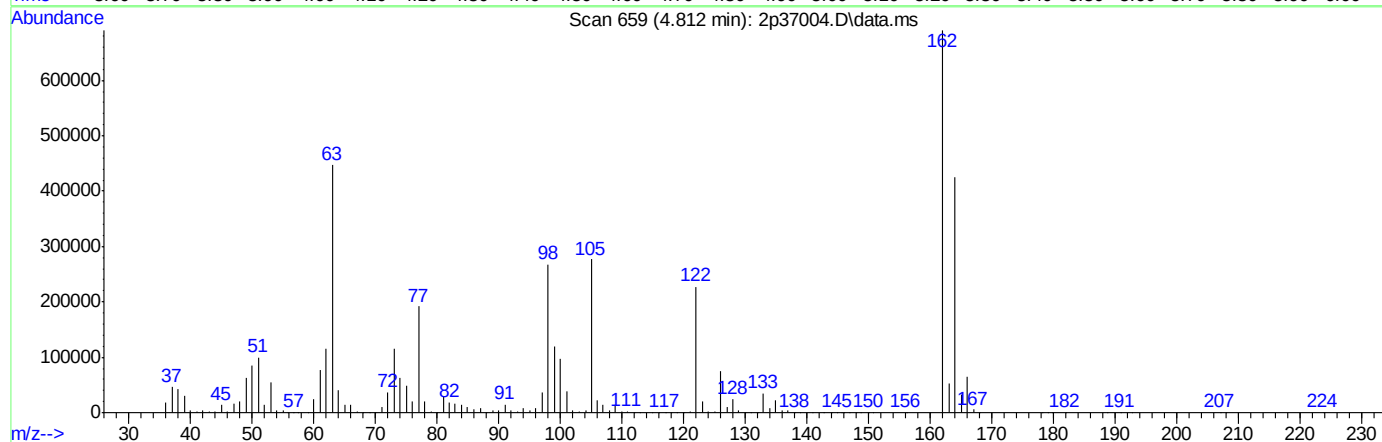
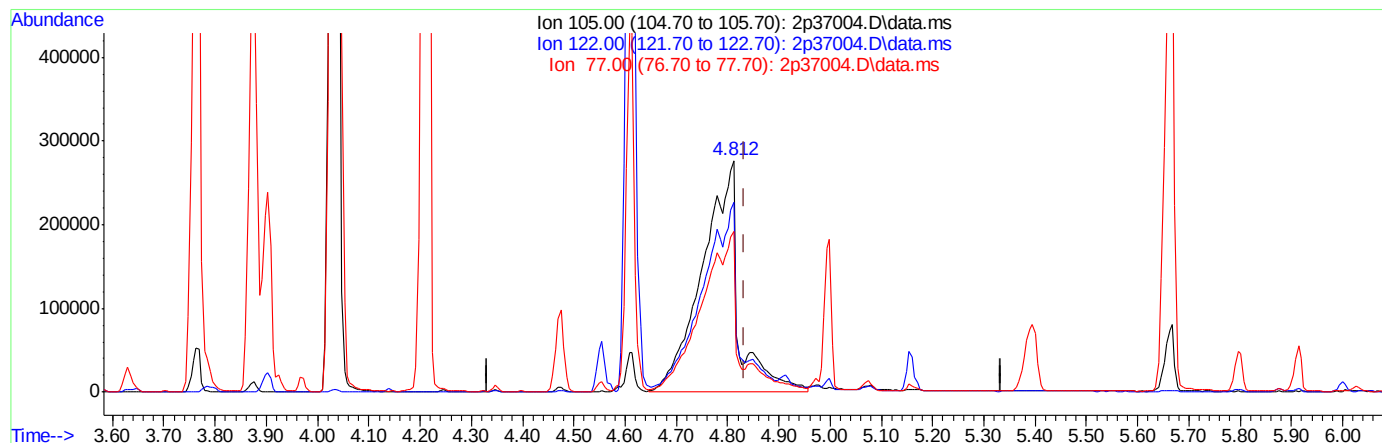
response 4305017

Ion	Exp%	Act%
276.10	100	100
138.00	33.50	31.57
137.10	24.20	22.99
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1539\
Data File : 2p37004.D
Acq On : 28 May 2014 9:30 pm
Operator : ashleyd
Sample : ic1539-80
Misc : op75027,e2p1539
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 29 16:08:00 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 29 16:07:01 2014
Response via : Initial Calibration



(31) Benzoic acid (t)

4.812min (-0.021) 88.27ppb m

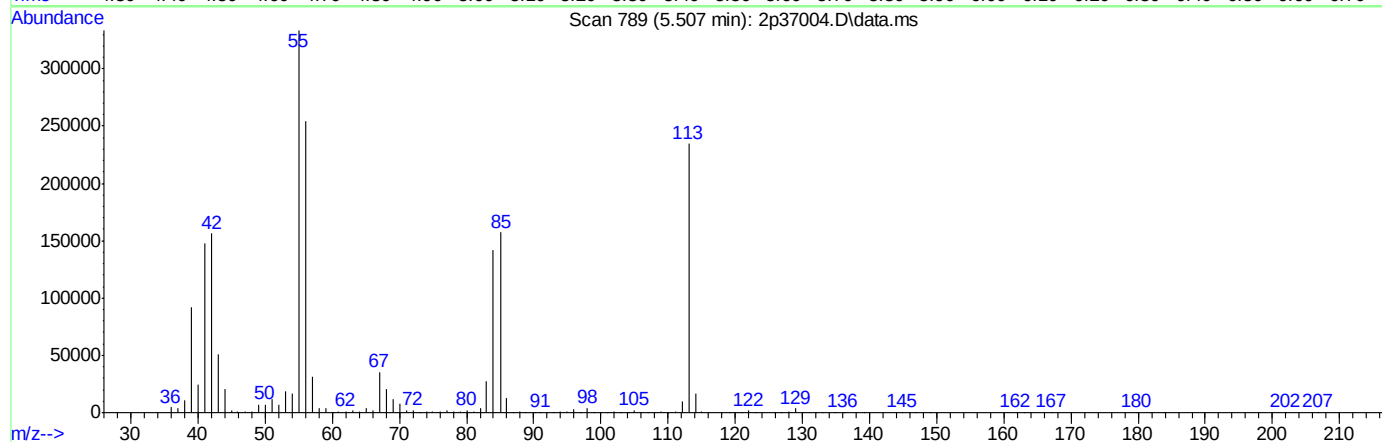
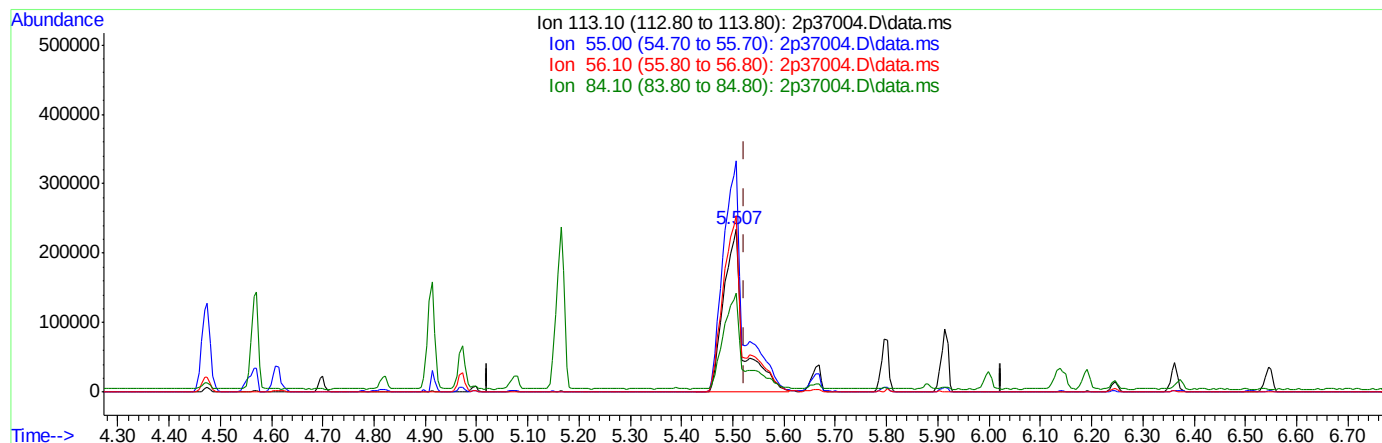
response 1371039

Ion	Exp%	Act%
105.00	100	100
122.00	81.40	81.97
77.00	71.00	69.20
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1539\
Data File : 2p37004.D
Acq On : 28 May 2014 9:30 pm
Operator : ashleyd
Sample : ic1539-80
Misc : op75027,e2p1539
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 29 16:08:00 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 29 16:07:01 2014
Response via : Initial Calibration



TIC: 2p37004.D\data.ms

(41) Caprolactam (t)

5.507min (-0.016) 79.25ppb m

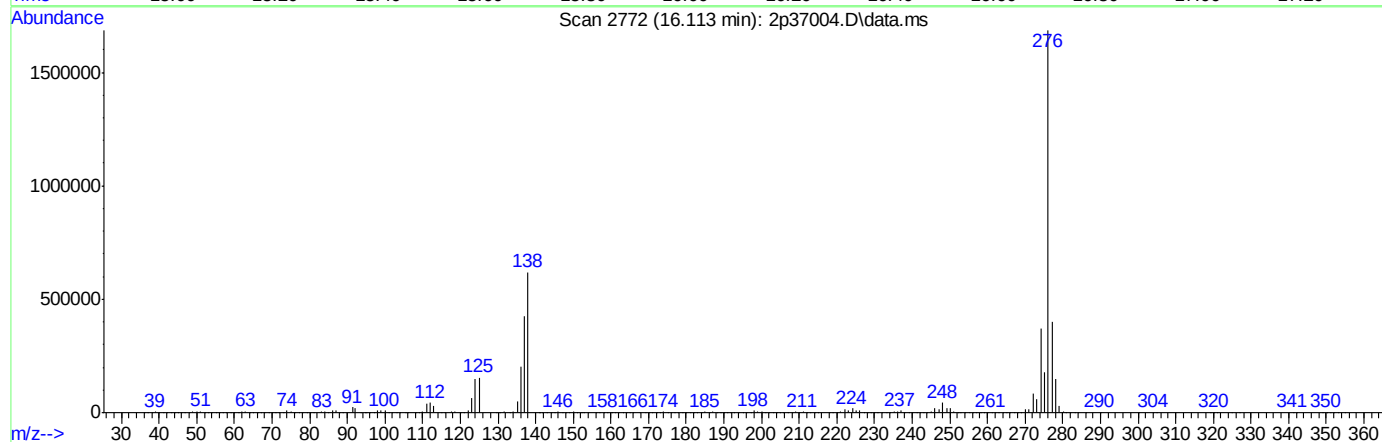
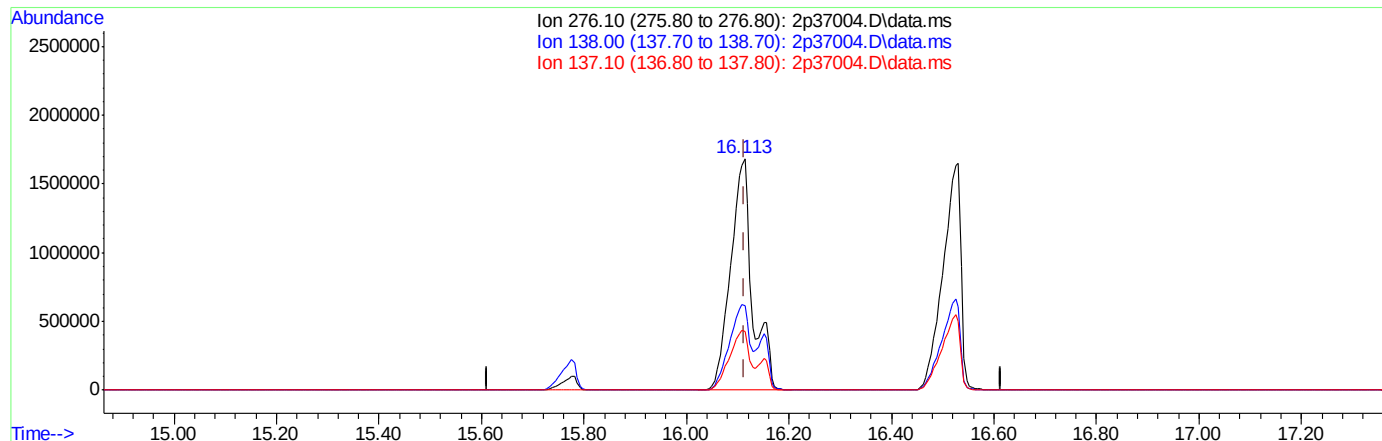
response 632963

Ion	Exp%	Act%
113.10	100	100
55.00	135.80	142.13
56.10	105.60	108.29
84.10	56.30	60.59

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1539\
Data File : 2p37004.D
Acq On : 28 May 2014 9:30 pm
Operator : ashleyd
Sample : ic1539-80
Misc : op75027,e2p1539
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 29 16:08:00 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 29 16:07:01 2014
Response via : Initial Calibration



TIC: 2p37004.D\data.ms

(97) Indeno[1,2,3-cd]pyrene (t)

16.113min (+0.000) 96.77ppb m

response 5027344

Ion	Exp%	Act%
276.10	100	100
138.00	33.50	36.67
137.10	24.20	25.12
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1539\
 Data File : 2p37005.D
 Acq On : 28 May 2014 9:53 pm
 Operator : ashleyd
 Sample : ic1539-10
 Misc : op75027,e2p1539
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 30 09:18:39 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Fri May 30 09:14:50 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.624	152	693030	40.00	ppb	0.00
24) Naphthalene-d8	4.967	136	2553161	40.00	ppb	0.00
47) Acenaphthene-d10	7.031	164	1348972	40.00	ppb	0.00
69) Phenanthrene-d10	8.828	188	2105693	40.00	ppb	0.00
83) Chrysene-d12	12.567	240	1935668	40.00	ppb	-0.01
92) Perylene-d12	14.626	264	1675467	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	3.624	152	693030	40.00	ppb	0.00
104) Acenaphthene-d10a	7.031	164	1348972	40.00	ppb	0.00
107) Chrysene-d12a	12.567	240	1935668	40.00	ppb	-0.01
110) Phenanthrene-d10a	8.828	188	2105693	40.00	ppb	0.00
112) Naphthalene-d8a	4.967	136	2553161	40.00	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol	2.522	112	234378	9.89	ppb	0.00
Spiked Amount	50.000	Range	11 - 58	Recovery	=	19.78%
8) Phenol-d5	3.260	99	287098	10.02	ppb	-0.01
Spiked Amount	50.000	Range	10 - 59	Recovery	=	20.04%
25) Nitrobenzene-d5	4.180	82	232796	10.21	ppb	0.00
Spiked Amount	50.000	Range	19 - 61	Recovery	=	20.42%
51) 2-Fluorobiphenyl	6.240	172	433803	10.24	ppb	0.00
Spiked Amount	50.000	Range	21 - 58	Recovery	=	20.48%#
73) 2,4,6-Tribromophenol	7.978	330	41591	8.51	ppb	-0.01
Spiked Amount	50.000	Range	12 - 68	Recovery	=	17.02%
85) Terphenyl-d14	11.037	244	383523	9.96	ppb	-0.01
Spiked Amount	50.000	Range	16 - 65	Recovery	=	19.92%
108) 1-chlorooctadecane	0.000	57	0	0.00	ppb	
111) O-terphenyl	0.000	230	0	0.00	ppb	

Target Compounds

Qvalue

2) 1,4-Dioxane	1.624	88	107469	10.39	ppb	99
3) Pyridine	1.779	79	265261	9.96	ppb	97
4) N-Nitrosodimethylamine	1.752	74	130297	9.78	ppb	96
6) Indene	3.881	116	471971	10.35	ppb	98
7) Cumene	2.929	105	659626	10.07	ppb	99
9) Phenol	3.276	94	306802	9.99	ppb	97
10) Aniline	3.314	93	339229	10.36	ppb	99
11) bis(2-Chloroethyl)ether	3.367	93	216001	10.09	ppb	98
12) 2-Chlorophenol	3.426	128	265729	10.15	ppb	98
13) Decane	3.474	57	282658	10.66	ppb	96
14) 1,3-Dichlorobenzene	3.576	146	284137	10.03	ppb	99
15) 1,4-Dichlorobenzene	3.640	146	280695	10.00	ppb	99
16) Benzyl alcohol	3.752	108	157657	10.06	ppb	99
17) 1,2-Dichlorobenzene	3.795	146	268226	10.18	ppb	99
18) Acetophenone	4.020	105	390693	10.41	ppb	89
19) 2-Methylphenol	3.865	108	221973	10.36	ppb	99
20) 2,2'-oxybis(1-Chloropr...	3.897	121	69778	10.23	ppb	91
21) 3&4-Methylphenol	4.020	108	229743	10.31	ppb	97
22) n-Nitroso-di-n-propyla...	4.025	70	152153	10.79	ppb	94
23) Hexachloroethane	4.138	201	85640	9.81	ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1539\
 Data File : 2p37005.D
 Acq On : 28 May 2014 9:53 pm
 Operator : ashleyd
 Sample : ic1539-10
 Misc : op75027,e2p1539
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 30 09:18:39 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Fri May 30 09:14:50 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Nitrobenzene	4.196	77	245163	10.45	ppb	98
27) Quinoline	5.368	129	554838	10.22	ppb	99
28) Isophorone	4.453	82	415839	10.38	ppb	97
29) 2-Nitrophenol	4.544	139	123780	10.14	ppb	94
30) 2,4-Dimethylphenol	4.598	107	188141	9.94	ppb	99
31) Benzoic acid	4.699	105	96871	9.72	ppb	98
32) bis(2-Chloroethoxy)met...	4.705	93	254741	10.25	ppb	100
33) 2,4-Dichlorophenol	4.806	162	188269	10.16	ppb	98
34) 2,6-Dichlorophenol	5.063	162	181515	10.33	ppb	99
35) 1,3,5-Trichlorobenzene	4.560	180	253810	10.36	ppb	99
36) 1,2,4-Trichlorobenzene	4.908	180	210203	10.17	ppb	98
37) 1,2,3-Trichlorobenzene	5.154	180	233992	10.30	ppb	98
38) Naphthalene	4.988	128	698520	10.25	ppb	99
39) 4-Chloroaniline	5.052	127	307136	10.37	ppb	96
40) 2,3-Dichloroaniline	6.127	161	271884	10.17	ppb	98
41) Caprolactam	5.427	113	77946	10.19	ppb	97
42) Hexachlorobutadiene	5.148	225	101585	10.10	ppb	99
43) 4-Chloro-3-methylphenol	5.635	107	201126	10.25	ppb	94
44) 2-Methylnaphthalene	5.790	141	406751	10.29	ppb	98
45) 1-Methylnaphthalene	5.903	141	462805	10.36	ppb	99
46) Dimethylnaphthalene	6.534	156	443284	10.25	ppb	99
48) Hexachlorocyclopentadiene	5.994	237	195158	19.98	ppb	99
49) 2,4,6-Trichlorophenol	6.133	196	116534	10.34	ppb	97
50) 2,4,5-Trichlorophenol	6.170	196	130318	10.37	ppb	97
52) 2-Chloronaphthalene	6.363	162	420500	10.51	ppb	98
53) Biphenyl	6.352	154	622207	10.57	ppb	98
54) 2-Nitroaniline	6.491	65	119351	10.35	ppb	98
55) Dimethylphthalate	6.737	163	439837	10.05	ppb	98
56) Acenaphthylene	6.849	152	676939	10.28	ppb	99
57) 2,6-Dinitrotoluene	6.791	165	97934	10.52	ppb	98
58) 3-Nitroaniline	6.983	138	129717	10.35	ppb	91
59) Acenaphthene	7.063	153	417399	10.18	ppb	100
60) 2,4-Dinitrophenol	7.111	184	53654	21.35	ppb	94
61) 4-Nitrophenol	7.213	109	57917	10.33	ppb	93
62) Dibenzofuran	7.277	168	550996	10.14	ppb	99
63) 2,4-Dinitrotoluene	7.272	165	133159	10.86	ppb	97
64) 2,3,4,6-Tetrachlorophenol	7.432	232	81828	9.99	ppb	98
65) Diethylphthalate	7.598	149	465988	10.21	ppb	100
66) Fluorene	7.684	166	452024	10.26	ppb	97
67) 4-Chlorophenyl-phenyle...	7.705	204	185285	10.28	ppb	97
68) 4-Nitroaniline	7.716	138	127170	10.41	ppb	92
70) 4,6-Dinitro-2-methylph...	7.759	198	36117	9.38	ppb	91
71) n-Nitrosodiphenylamine	7.850	169	300126	10.26	ppb	99
72) 1,2-Diphenylhydrazine	7.892	77	481929	10.53	ppb	97
74) 4-Bromophenyl-phenylether	8.293	248	99984	9.69	ppb	98
75) Hexachlorobenzene	8.358	284	117954	9.71	ppb	90
76) Pentachlorophenol	8.604	266	117977	19.61	ppb	99
77) Phenanthrene	8.855	178	618747	10.10	ppb	99
78) Anthracene	8.919	178	612586	10.16	ppb	99
79) Carbazole	9.139	167	718047	10.21	ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1539\
 Data File : 2p37005.D
 Acq On : 28 May 2014 9:53 pm
 Operator : ashleyd
 Sample : ic1539-10
 Misc : op75027,e2p1539
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 30 09:18:39 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Fri May 30 09:14:50 2014
 Response via : Initial Calibration

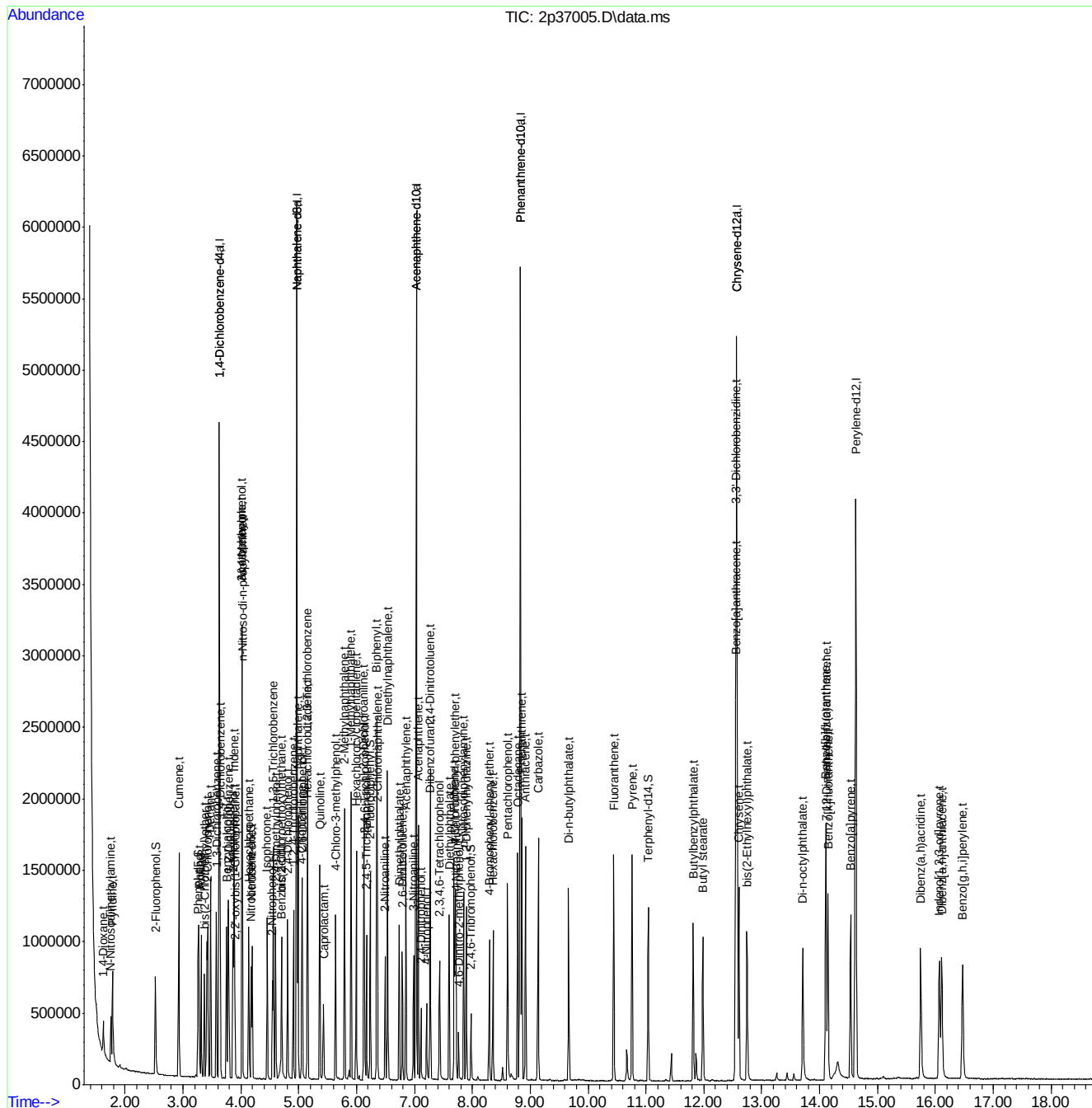
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) Di-n-butylphthalate	9.663	149	796268	10.46	ppb	99
81) Fluoranthene	10.444	202	657431	10.17	ppb	99
82) Octadecane	8.780	43	212953	11.00	ppb	93
84) Pyrene	10.759	202	687410	10.18	ppb	99
86) Butylbenzylphthalate	11.813	149	331246	10.46	ppb	98
87) Butyl stearate	11.979	56	189047	11.43	ppb	94
88) Benzo[a]anthracene	12.551	228	560781	9.80	ppb	99
89) 3,3'-Dichlorobenzidine	12.556	252	192495	10.43	ppb	98
90) Chrysene	12.604	228	503931	10.10	ppb	99
91) bis(2-Ethylhexyl)phtha...	12.744	149	427403	10.09	ppb	99
93) Di-n-octylphthalate	13.706	149	711151	9.44	ppb	99
94) Benzo[b]fluoranthene	14.107	252	538395	9.88	ppb	99
95) Benzo[k]fluoranthene	14.145	252	529698	10.66	ppb	99
96) Benzo[a]pyrene	14.535	252	486457	10.54	ppb	96
97) Indeno[1,2,3-cd]pyrene	16.065	276	564395m	10.52	ppb	
98) Dibenz(a,h)acridine	15.744	279	470654	9.98	ppb	99
99) Dibenz[a,h]anthracene	16.113	278	459242	10.43	ppb	97
100) 7,12-Dimethylbenz(a)an...	14.113	256	160432	8.50	ppb	97
101) Benzo[g,h,i]perylene	16.472	276	463226	10.31	ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1539\
Data File : 2p37005.D
Acq On : 28 May 2014 9:53 pm
Operator : ashleyd
Sample : ic1539-10
Misc : op75027,e2p1539
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 30 09:18:39 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri May 30 09:14:50 2014
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: E2P1539-IC1539

Method: SW846 8270D

Lab FileID: 2P37005.D

Analyst approved: 05/30/14 09:38 Olga Azarihn

Injection Time: 05/28/14 21:53

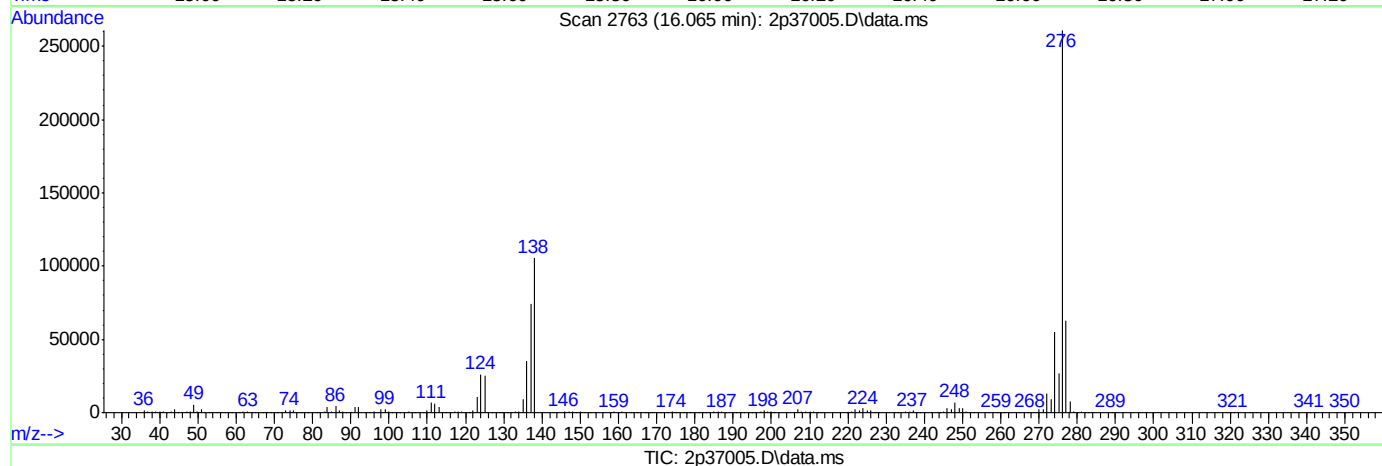
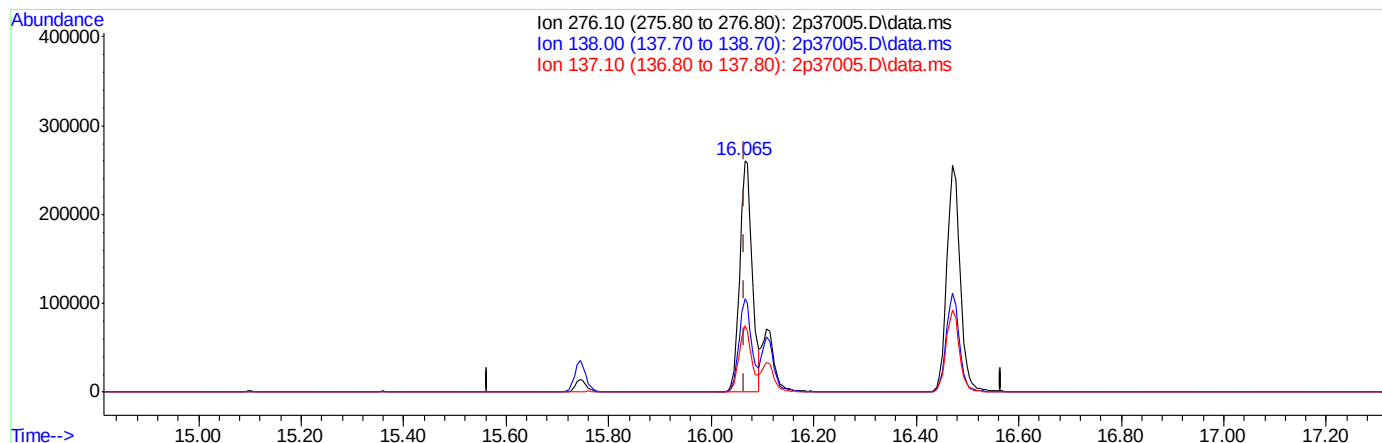
Supervisor approved: 05/30/14 13:01 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
Indeno(1,2,3-cd)pyrene	193-39-5		16.07	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1539\
Data File : 2p37005.D
Acq On : 28 May 2014 9:53 pm
Operator : ashleyd
Sample : ic1539-10
Misc : op75027,e2p1539
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 29 08:07:27 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 29 08:07:11 2014
Response via : Initial Calibration



(97) Indeno[1,2,3-cd]pyrene (t)

16.065min (0.000) 8.65ppb

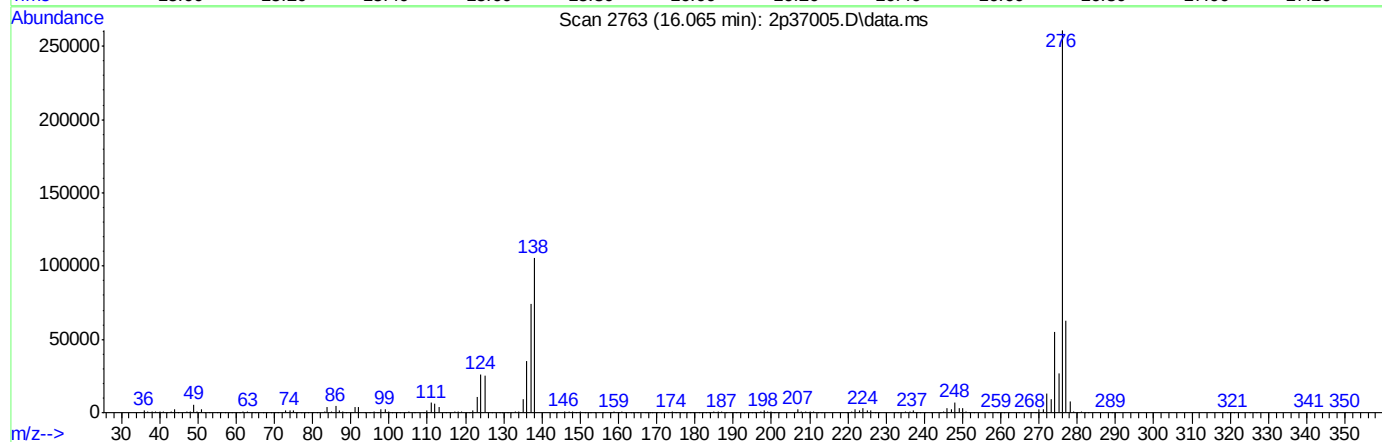
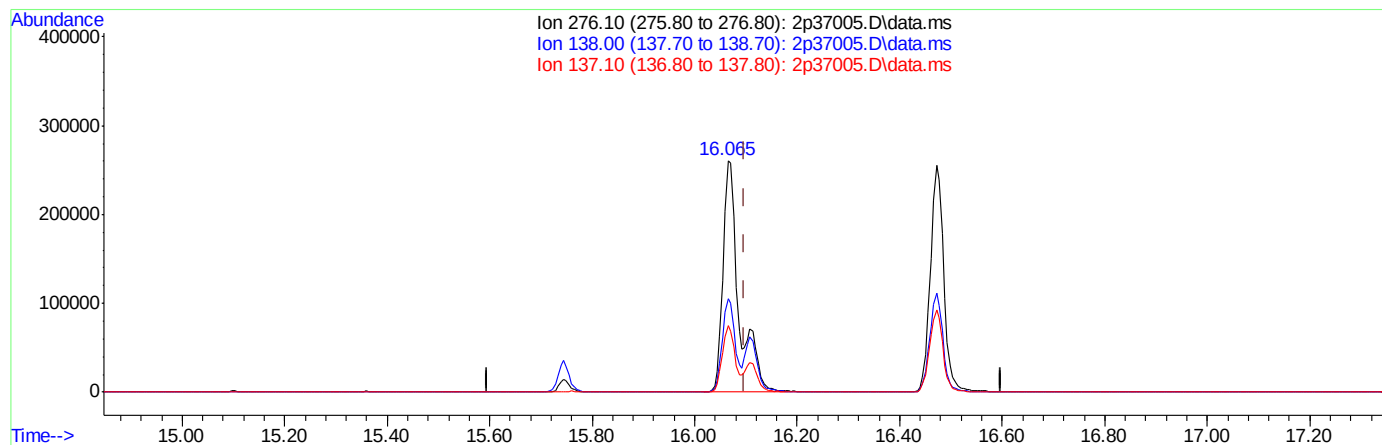
response 441560

Ion	Exp%	Act%
276.10	100	100
138.00	33.50	38.74
137.10	24.20	27.49
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1539\
Data File : 2p37005.D
Acq On : 28 May 2014 9:53 pm
Operator : ashleyd
Sample : ic1539-10
Misc : op75027,e2p1539
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 30 09:18:08 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri May 30 09:14:50 2014
Response via : Initial Calibration



TIC: 2p37005.D\data.ms

(97) Indeno[1,2,3-cd]pyrene (t)

16.065min (-0.032) 10.52ppb m

response 564395

Ion	Exp%	Act%
276.10	100	100
138.00	37.50	40.42
137.10	25.90	28.58
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1539\
 Data File : 2p37006.D
 Acq On : 28 May 2014 10:16 pm
 Operator : ashleyd
 Sample : ic1539-5
 Misc : op75027,e2p1539
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 29 16:31:17 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Thu May 29 16:29:59 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.624	152	765771	40.00	ppb	0.00
24) Naphthalene-d8	4.967	136	2821897	40.00	ppb	0.00
47) Acenaphthene-d10	7.031	164	1477988	40.00	ppb	0.00
69) Phenanthrene-d10	8.828	188	2300454	40.00	ppb	0.00
83) Chrysene-d12	12.572	240	2116417	40.00	ppb	0.00
92) Perylene-d12	14.626	264	1830840	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	3.624	152	765771	40.00	ppb	0.00
104) Acenaphthene-d10a	7.031	164	1477988	40.00	ppb	0.00
107) Chrysene-d12a	12.572	240	2116417	40.00	ppb	0.00
110) Phenanthrene-d10a	8.828	188	2300454	40.00	ppb	0.00
112) Naphthalene-d8a	4.967	136	2821897	40.00	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol	2.522	112	134410	5.13	ppb	0.00
Spiked Amount	50.000	Range	11 - 58	Recovery	=	10.26%#
8) Phenol-d5	3.260	99	164481	5.20	ppb	-0.01
Spiked Amount	50.000	Range	10 - 59	Recovery	=	10.40%#
25) Nitrobenzene-d5	4.175	82	134822	5.35	ppb	-0.01
Spiked Amount	50.000	Range	19 - 61	Recovery	=	10.70%#
51) 2-Fluorobiphenyl	6.234	172	249527	5.37	ppb	0.00
Spiked Amount	50.000	Range	21 - 58	Recovery	=	10.74%#
73) 2,4,6-Tribromophenol	7.978	330	21291	3.99	ppb	-0.01
Spiked Amount	50.000	Range	12 - 68	Recovery	=	7.98%#
85) Terphenyl-d14	11.037	244	215214	5.11	ppb	-0.01
Spiked Amount	50.000	Range	16 - 65	Recovery	=	10.22%#
108) 1-chlorooctadecane	0.000	57	0	0.00	ppb	
111) O-terphenyl	0.000	230	0	0.00	ppb	

Target Compounds

Qvalue

2) 1,4-Dioxane	1.624	88	60615	5.30	ppb	98
3) Pyridine	1.779	79	149487	5.08	ppb	95
4) N-Nitrosodimethylamine	1.752	74	76736	5.21	ppb	97
6) Indene	3.881	116	278336	5.53	ppb	99
7) Cumene	2.929	105	384716	5.32	ppb	100
9) Phenol	3.277	94	176861	5.21	ppb	100
10) Aniline	3.314	93	200314	5.54	ppb	99
11) bis(2-Chloroethyl)ether	3.367	93	124604	5.27	ppb	98
12) 2-Chlorophenol	3.426	128	152740	5.28	ppb	96
13) Decane	3.474	57	164131	5.60	ppb	95
14) 1,3-Dichlorobenzene	3.576	146	167291	5.34	ppb	100
15) 1,4-Dichlorobenzene	3.640	146	163622	5.27	ppb	100
16) Benzyl alcohol	3.753	108	89300	5.16	ppb	98
17) 1,2-Dichlorobenzene	3.790	146	155993	5.36	ppb	98
18) Acetophenone	4.020	105	226886	5.47	ppb	95
19) 2-Methylphenol	3.865	108	124982	5.28	ppb	99
20) 2,2'-oxybis(1-Chloropr...	3.897	121	40711	5.40	ppb	92
21) 3&4-Methylphenol	4.020	108	131269	5.33	ppb	98
22) n-Nitroso-di-n-propyla...	4.025	70	88962	5.71	ppb	96
23) Hexachloroethane	4.138	201	49243	5.11	ppb	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1539\
 Data File : 2p37006.D
 Acq On : 28 May 2014 10:16 pm
 Operator : ashleyd
 Sample : ic1539-5
 Misc : op75027,e2p1539
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 29 16:31:17 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Thu May 29 16:29:59 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Nitrobenzene	4.197	77	140512	5.42	ppb	99
27) Quinoline	5.362	129	316427	5.28	ppb	100
28) Isophorone	4.453	82	235975	5.33	ppb	97
29) 2-Nitrophenol	4.544	139	67042	4.97	ppb	95
30) 2,4-Dimethylphenol	4.598	107	104690	5.00	ppb	99
31) Benzoic acid	4.678	105	41160	6.29	ppb	95
32) bis(2-Chloroethoxy)met...	4.705	93	147710	5.38	ppb	97
33) 2,4-Dichlorophenol	4.806	162	107454	5.25	ppb	99
34) 2,6-Dichlorophenol	5.063	162	102052	5.26	ppb	99
35) 1,3,5-Trichlorobenzene	4.560	180	145017	5.36	ppb	99
36) 1,2,4-Trichlorobenzene	4.908	180	122202	5.35	ppb	98
37) 1,2,3-Trichlorobenzene	5.154	180	135061	5.38	ppb	99
38) Naphthalene	4.988	128	405159	5.38	ppb	99
39) 4-Chloroaniline	5.052	127	178531	5.46	ppb	97
40) 2,3-Dichloroaniline	6.122	161	154721	5.23	ppb	99
41) Caprolactam	5.416	113	42700	5.05	ppb	92
42) Hexachlorobutadiene	5.149	225	58045	5.22	ppb	97
43) 4-Chloro-3-methylphenol	5.630	107	111605	5.15	ppb	99
44) 2-Methylnaphthalene	5.790	141	232396	5.32	ppb	99
45) 1-Methylnaphthalene	5.903	141	261013	5.29	ppb	99
46) Dimethylnaphthalene	6.534	156	255757	5.35	ppb	98
48) Hexachlorocyclopentadiene	5.994	237	102170	9.55	ppb	99
49) 2,4,6-Trichlorophenol	6.133	196	62716	5.08	ppb	96
50) 2,4,5-Trichlorophenol	6.170	196	70833	5.15	ppb	98
52) 2-Chloronaphthalene	6.363	162	242303	5.53	ppb	97
53) Biphenyl	6.347	154	353524	5.48	ppb	99
54) 2-Nitroaniline	6.491	65	66855	5.29	ppb	95
55) Dimethylphthalate	6.732	163	252789	5.27	ppb	99
56) Acenaphthylene	6.849	152	385874	5.35	ppb	99
57) 2,6-Dinitrotoluene	6.791	165	52333	5.13	ppb	99
58) 3-Nitroaniline	6.983	138	70615	5.14	ppb	97
59) Acenaphthene	7.063	153	236076	5.25	ppb	98
60) 2,4-Dinitrophenol	7.112	184	19953	12.41	ppb	92
61) 4-Nitrophenol	7.208	109	29254	4.76	ppb	96
62) Dibenzofuran	7.272	168	315334	5.30	ppb	98
63) 2,4-Dinitrotoluene	7.272	165	69761	5.19	ppb	96
64) 2,3,4,6-Tetrachlorophenol	7.432	232	41791	4.66	ppb	96
65) Diethylphthalate	7.593	149	262355	5.25	ppb	99
66) Fluorene	7.684	166	253481	5.25	ppb	97
67) 4-Chlorophenyl-phenyle...	7.705	204	105424	5.34	ppb	99
68) 4-Nitroaniline	7.716	138	68988	5.15	ppb	95
70) 4,6-Dinitro-2-methylph...	7.759	198	14893	6.08	ppb	96
71) n-Nitrosodiphenylamine	7.850	169	169019	5.29	ppb	98
72) 1,2-Diphenylhydrazine	7.892	77	272801	5.46	ppb	97
74) 4-Bromophenyl-phenylether	8.294	248	56576	5.02	ppb	96
75) Hexachlorobenzene	8.358	284	66718	5.03	ppb	91
76) Pentachlorophenol	8.604	266	52548	11.15	ppb	98
77) Phenanthrene	8.855	178	347382	5.19	ppb	99
78) Anthracene	8.919	178	344028	5.22	ppb	97
79) Carbazole	9.133	167	408054	5.31	ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1539\
Data File : 2p37006.D
Acq On : 28 May 2014 10:16 pm
Operator : ashleyd
Sample : ic1539-5
Misc : op75027,e2p1539
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 29 16:31:17 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 29 16:29:59 2014
Response via : Initial Calibration

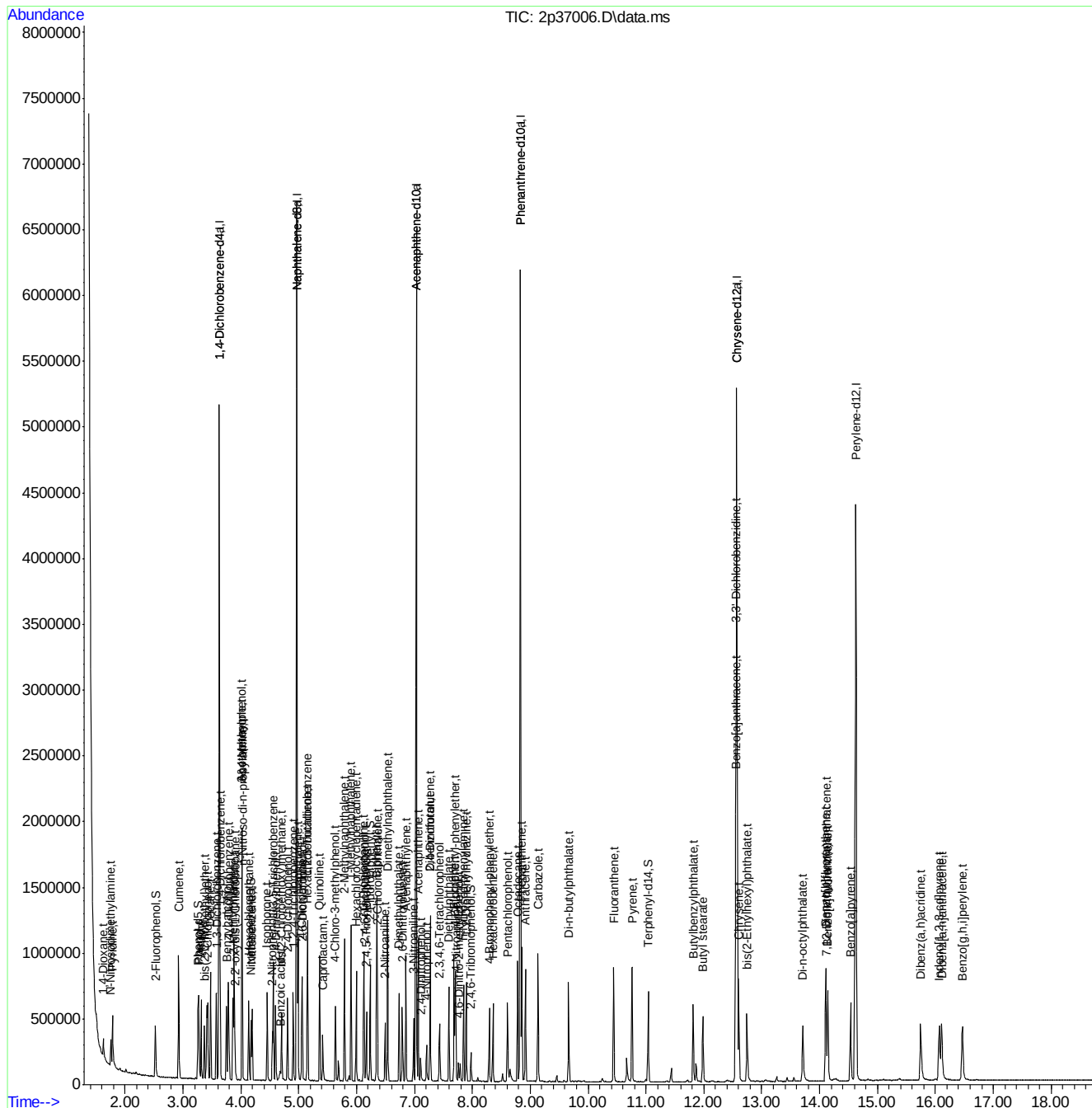
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) Di-n-butylphthalate	9.663	149	434083	5.22	ppb	99
81) Fluoranthene	10.444	202	358819	5.08	ppb	99
82) Octadecane	8.780	43	117592	5.56	ppb	93
84) Pyrene	10.759	202	384065	5.20	ppb	99
86) Butylbenzylphthalate	11.813	149	174158	5.03	ppb	97
87) Butyl stearate	11.979	56	97039	5.36	ppb	94
88) Benzo[a]anthracene	12.551	228	316447	5.06	ppb	99
89) 3,3'-Dichlorobenzidine	12.556	252	100878	5.00	ppb	92
90) Chrysene	12.605	228	278948	5.11	ppb	99
91) bis(2-Ethylhexyl)phtha...	12.744	149	218859	4.72	ppb	99
93) Di-n-octylphthalate	13.706	149	348104	5.22	ppb	99
94) Benzo[b]fluoranthene	14.102	252	291431	4.90	ppb	99
95) Benzo[k]fluoranthene	14.140	252	291964	5.37	ppb	98
96) Benzo[a]pyrene	14.535	252	255353	5.06	ppb	96
97) Indeno[1,2,3-cd]pyrene	16.065	276	297608m	4.93	ppb	
98) Dibenz(a,h)acridine	15.744	279	235769	4.58	ppb	100
99) Dibenz[a,h]anthracene	16.108	278	241332	5.01	ppb	95
100) 7,12-Dimethylbenz(a)an...	14.113	256	61814	5.12	ppb	99
101) Benzo[g,h,i]perylene	16.466	276	245987	5.01	ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1539\
 Data File : 2p37006.D
 Acq On : 28 May 2014 10:16 pm
 Operator : ashleyd
 Sample : ic1539-5
 Misc : op75027,e2p1539
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 29 16:31:17 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Thu May 29 16:29:59 2014
 Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: E2P1539-IC1539

Method: SW846 8270D

Lab FileID: 2P37006.D

Analyst approved: 05/29/14 16:36 Olga Azarihn

Injection Time: 05/28/14 22:16

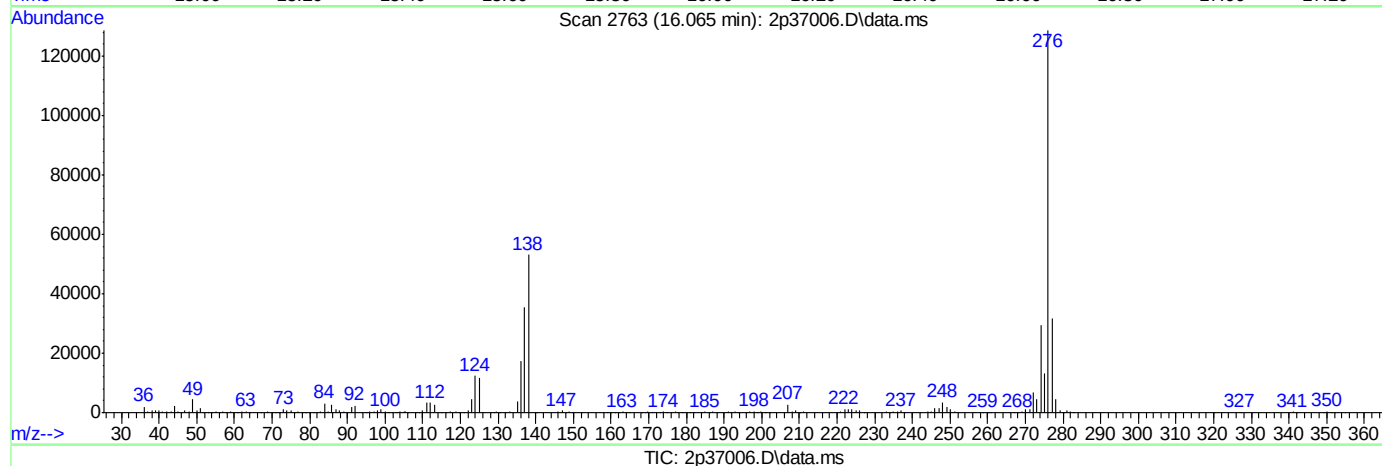
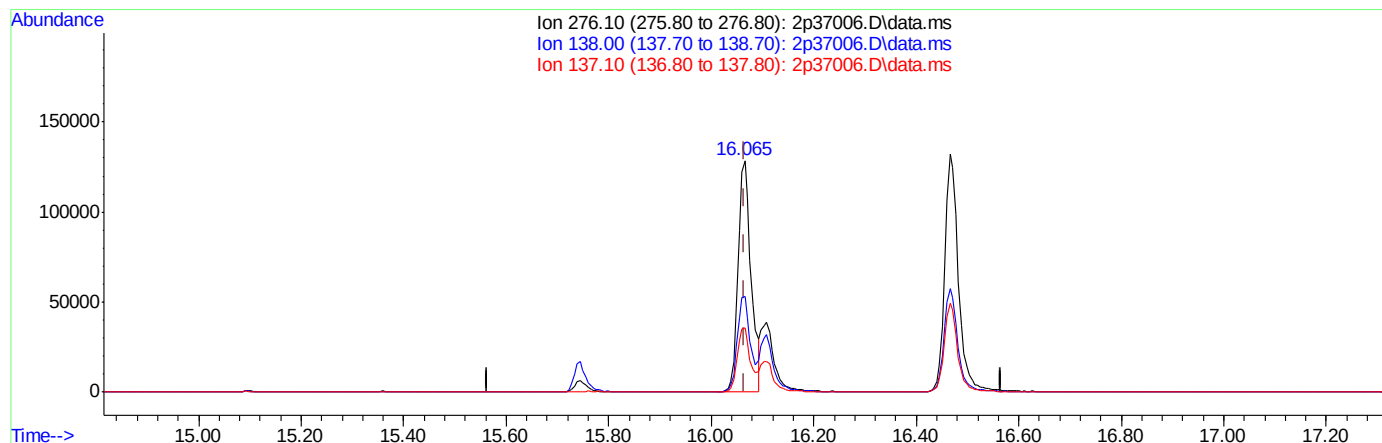
Supervisor approved: 05/30/14 13:01 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
Indeno(1,2,3-cd)pyrene	193-39-5		16.07	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1539\
Data File : 2p37006.D
Acq On : 28 May 2014 10:16 pm
Operator : ashleyd
Sample : ic1539-5
Misc : op75027,e2p1539
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 29 08:10:31 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 29 08:07:43 2014
Response via : Initial Calibration



(97) Indeno[1,2,3-cd]pyrene (t)

16.065min (+0.000) 4.17ppb

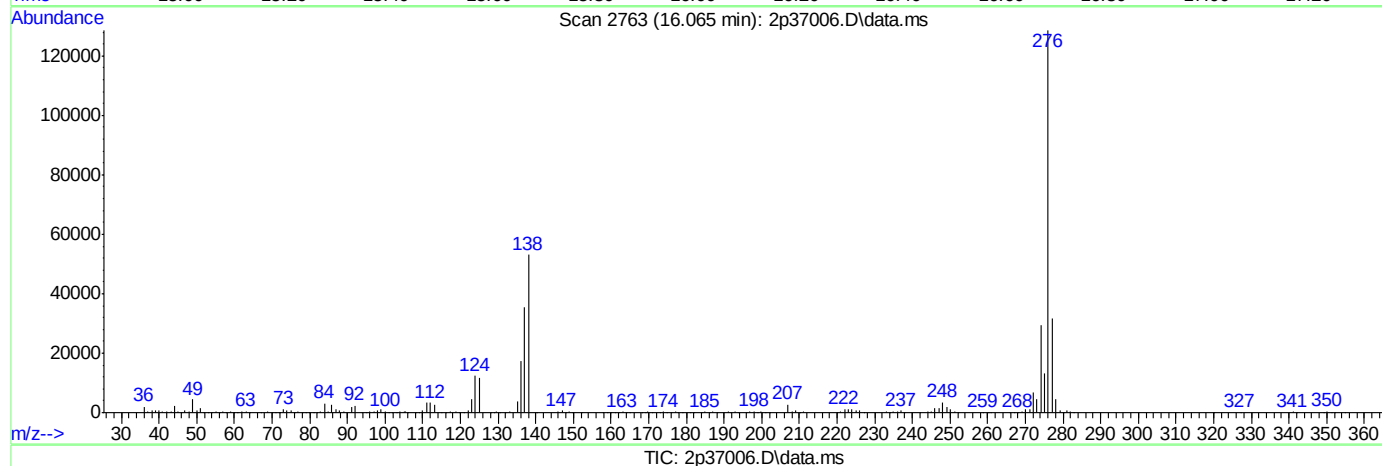
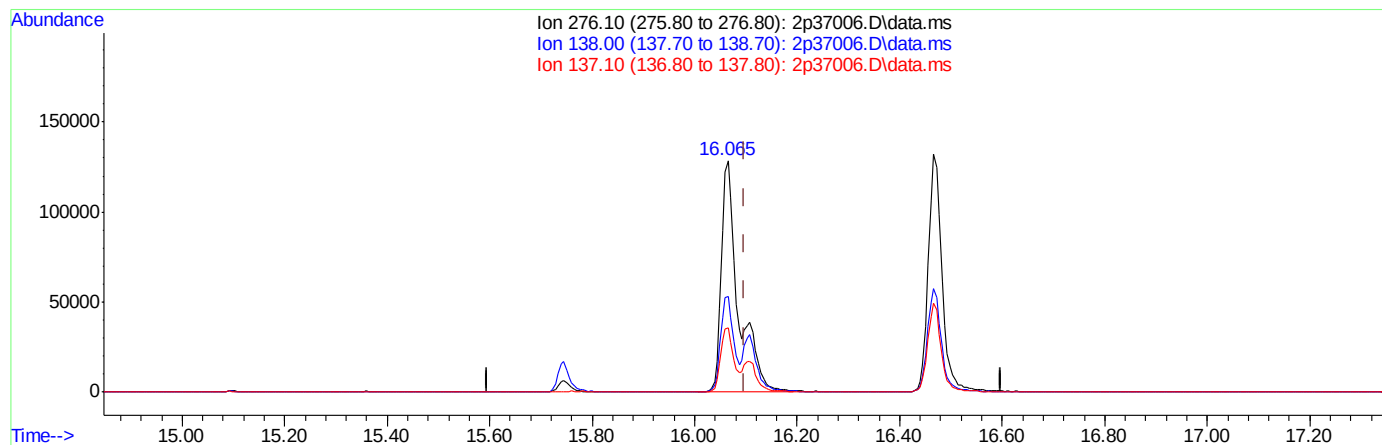
response 226358

Ion	Exp%	Act%
276.10	100	100
138.00	33.50	39.02
137.10	24.20	26.15
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1539\
Data File : 2p37006.D
Acq On : 28 May 2014 10:16 pm
Operator : ashleyd
Sample : ic1539-5
Misc : op75027,e2p1539
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 29 16:30:42 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 29 16:29:59 2014
Response via : Initial Calibration



(97) Indeno[1,2,3-cd]pyrene (t)

16.065min (-0.032) 4.93ppb m

response 297608

Ion	Exp%	Act%
276.10	100	100
138.00	37.50	41.34
137.10	25.90	27.67
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1539\
 Data File : 2p37007.D
 Acq On : 28 May 2014 10:40 pm
 Operator : ashleyd
 Sample : ic1539-2
 Misc : op75027,e2p1539
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 29 16:22:20 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Thu May 29 16:21:29 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.624	152	748965	40.00	ppb	0.00
24) Naphthalene-d8	4.967	136	2769437	40.00	ppb	0.00
47) Acenaphthene-d10	7.026	164	1456338	40.00	ppb	0.00
69) Phenanthrene-d10	8.829	188	2255697	40.00	ppb	0.00
83) Chrysene-d12	12.567	240	2048136	40.00	ppb	0.00
92) Perylene-d12	14.626	264	1794456	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	3.624	152	748965	40.00	ppb	0.00
104) Acenaphthene-d10a	7.026	164	1456338	40.00	ppb	0.00
107) Chrysene-d12a	12.567	240	2048136	40.00	ppb	0.00
110) Phenanthrene-d10a	8.829	188	2255697	40.00	ppb	0.00
112) Naphthalene-d8a	4.967	136	2769437	40.00	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol	2.523	112	49326	1.93	ppb	0.00
Spiked Amount	50.000	Range	11 - 58	Recovery	=	3.86%#
8) Phenol-d5	3.261	99	62674	2.02	ppb	0.00
Spiked Amount	50.000	Range	10 - 59	Recovery	=	4.04%#
25) Nitrobenzene-d5	4.175	82	52195	2.11	ppb	0.00
Spiked Amount	50.000	Range	19 - 61	Recovery	=	4.22%#
51) 2-Fluorobiphenyl	6.234	172	96262	2.10	ppb	0.00
Spiked Amount	50.000	Range	21 - 58	Recovery	=	4.20%#
73) 2,4,6-Tribromophenol	7.973	330	6717	1.28	ppb	0.00
Spiked Amount	50.000	Range	12 - 68	Recovery	=	2.56%#
85) Terphenyl-d14	11.038	244	79416	1.95	ppb	0.00
Spiked Amount	50.000	Range	16 - 65	Recovery	=	3.90%#
108) 1-chlorooctadecane	0.000	57	0	0.00	ppb	
111) O-terphenyl	0.000	230	0	0.00	ppb	

Target Compounds

Qvalue

2) 1,4-Dioxane	1.624	88	23183	1.88	ppb	97
3) Pyridine	1.779	79	57965	2.01	ppb	94
4) N-Nitrosodimethylamine	1.752	74	28913	2.01	ppb	92
6) Indene	3.881	116	106578	2.16	ppb	99
7) Cumene	2.924	105	144418	2.04	ppb	99
9) Phenol	3.271	94	67981	2.05	ppb	96
10) Aniline	3.314	93	80118	2.26	ppb	98
11) bis(2-Chloroethyl)ether	3.362	93	49569	2.14	ppb	98
12) 2-Chlorophenol	3.426	128	58387	2.06	ppb	95
13) Decane	3.475	57	62584	2.18	ppb	94
14) 1,3-Dichlorobenzene	3.571	146	64237	2.10	ppb	98
15) 1,4-Dichlorobenzene	3.640	146	63520	2.09	ppb	99
16) Benzyl alcohol	3.747	108	33850	2.00	ppb	99
17) 1,2-Dichlorobenzene	3.790	146	59491	2.09	ppb	98
18) Acetophenone	4.020	105	87672	2.16	ppb	97
19) 2-Methylphenol	3.860	108	47654	2.06	ppb	98
20) 2,2'-oxybis(1-Chloropr...	3.892	121	15565	2.11	ppb	88
21) 3&4-Methylphenol	4.020	108	49271	2.05	ppb	97
22) n-Nitroso-di-n-propyla...	4.025	70	33910	2.22	ppb	95
23) Hexachloroethane	4.138	201	19974	2.12	ppb	89

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1539\
 Data File : 2p37007.D
 Acq On : 28 May 2014 10:40 pm
 Operator : ashleyd
 Sample : ic1539-2
 Misc : op75027,e2p1539
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 29 16:22:20 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Thu May 29 16:21:29 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Nitrobenzene	4.197	77	53363	2.10	ppb	100
27) Quinoline	5.363	129	121529	2.06	ppb	98
28) Isophorone	4.453	82	89737	2.06	ppb	99
29) 2-Nitrophenol	4.539	139	24196	1.83	ppb	95
30) 2,4-Dimethylphenol	4.598	107	31237	1.52	ppb	96
31) Benzoic acid	4.662	105	9638	4.67	ppb	95
32) bis(2-Chloroethoxy)met...	4.699	93	55731	2.07	ppb	96
33) 2,4-Dichlorophenol	4.806	162	39998	1.99	ppb	98
34) 2,6-Dichlorophenol	5.063	162	38656	2.03	ppb	98
35) 1,3,5-Trichlorobenzene	4.560	180	55284	2.08	ppb	98
36) 1,2,4-Trichlorobenzene	4.903	180	47620	2.12	ppb	99
37) 1,2,3-Trichlorobenzene	5.154	180	53434	2.17	ppb	98
38) Naphthalene	4.988	128	155966	2.11	ppb	100
39) 4-Chloroaniline	5.052	127	69842	2.17	ppb	98
40) 2,3-Dichloroaniline	6.122	161	60338	2.08	ppb	96
41) Caprolactam	5.405	113	15631	1.88	ppb	94
42) Hexachlorobutadiene	5.149	225	22582	2.07	ppb	99
43) 4-Chloro-3-methylphenol	5.630	107	40604	1.91	ppb	93
44) 2-Methylnaphthalene	5.791	141	88026	2.05	ppb	97
45) 1-Methylnaphthalene	5.903	141	101346	2.09	ppb	99
46) Dimethylnaphthalene	6.534	156	99599	2.12	ppb	95
48) Hexachlorocyclopentadiene	5.994	237	34206	3.24	ppb	98
49) 2,4,6-Trichlorophenol	6.133	196	22579	1.86	ppb	99
50) 2,4,5-Trichlorophenol	6.165	196	25654	1.89	ppb	99
52) 2-Chloronaphthalene	6.357	162	92322	2.14	ppb	99
53) Biphenyl	6.347	154	135872	2.14	ppb	99
54) 2-Nitroaniline	6.486	65	23691	1.90	ppb	93
55) Dimethylphthalate	6.732	163	96671	2.05	ppb	100
56) Acenaphthylene	6.850	152	147907	2.08	ppb	99
57) 2,6-Dinitrotoluene	6.791	165	18251	1.82	ppb	92
58) 3-Nitroaniline	6.978	138	26594	1.97	ppb	87
59) Acenaphthene	7.064	153	91970	2.08	ppb	97
60) 2,4-Dinitrophenol	7.106	184	4633	9.85	ppb	93
61) 4-Nitrophenol	7.208	109	9136	1.51	ppb	97
62) Dibenzofuran	7.272	168	123807	2.11	ppb	100
63) 2,4-Dinitrotoluene	7.267	165	23538	1.78	ppb	83
64) 2,3,4,6-Tetrachlorophenol	7.433	232	13376	1.51	ppb	94
65) Diethylphthalate	7.588	149	100087	2.03	ppb	98
66) Fluorene	7.684	166	97370	2.05	ppb	99
67) 4-Chlorophenyl-phenyle...	7.705	204	41136	2.11	ppb	94
68) 4-Nitroaniline	7.711	138	26375	2.00	ppb	93
70) 4,6-Dinitro-2-methylph...	7.753	198	3546	4.56	ppb	97
71) n-Nitrosodiphenylamine	7.844	169	63838	2.04	ppb	96
72) 1,2-Diphenylhydrazine	7.893	77	104533	2.13	ppb	99
74) 4-Bromophenyl-phenylether	8.288	248	21481	1.94	ppb	94
75) Hexachlorobenzene	8.353	284	25869	1.99	ppb	85
76) Pentachlorophenol	8.604	266	14541	6.96	ppb	97
77) Phenanthrene	8.850	178	137362	2.09	ppb	100
78) Anthracene	8.914	178	132143	2.05	ppb	97
79) Carbazole	9.133	167	155246	2.06	ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1539\
Data File : 2p37007.D
Acq On : 28 May 2014 10:40 pm
Operator : ashleyd
Sample : ic1539-2
Misc : op75027,e2p1539
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 29 16:22:20 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 29 16:21:29 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) Di-n-butylphthalate	9.663	149	150848	1.85	ppb	98
81) Fluoranthene	10.438	202	134393	1.94	ppb	99
82) Octadecane	8.780	43	44485	2.15	ppb	92
84) Pyrene	10.754	202	146678	2.05	ppb	98
86) Butylbenzylphthalate	11.813	149	54144	1.62	ppb	95
87) Butyl stearate	11.979	56	29037	1.66	ppb	94
88) Benzo[a]anthracene	12.551	228	120990	2.00	ppb	97
89) 3,3'-Dichlorobenzidine	12.551	252	33204	1.70	ppb	93
90) Chrysene	12.599	228	106389	2.02	ppb	99
91) bis(2-Ethylhexyl)phtha...	12.744	149	64642	1.44	ppb	98
93) Di-n-octylphthalate	13.707	149	85448	2.69	ppb	99
94) Benzo[b]fluoranthene	14.102	252	100214	1.72	ppb	99
95) Benzo[k]fluoranthene	14.140	252	104454	1.96	ppb	98
96) Benzo[a]pyrene	14.536	252	86088	1.74	ppb	98
97) Indeno[1,2,3-cd]pyrene	16.065	276	100337	2.07	ppb	97
98) Dibenz(a,h)acridine	15.744	279	74176	1.47	ppb	97
99) Dibenz[a,h]anthracene	16.108	278	79553	1.69	ppb	99
100) 7,12-Dimethylbenz(a)an...	14.108	256	13658	3.69	ppb	98
101) Benzo[g,h,i]perylene	16.466	276	84496	1.76	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\2P1539\
Data File : 2p37007.D
Acq On : 28 May 2014 10:40 pm
Operator : ashleyd
Sample : ic1539-2
Misc : op75027,e2p1539
ALS Vial : 8 Sample Multiplier: 1

TIC: 2p37007.D\data.ms

Abundance

Time-->

Peak labels (from left to right):

- 1,4-Dioxane
- N,N-dimethylaniline.t
- 2-Fluorophenol.S
- Cumene.t
- Benzaldehyde
- Diethyl ether.t
- Benzonitrile
- 2-Nitrophenol
- Nitrobenzene
- Isobutylene
- Benzofuran
- Phenanthrene-d8a.l
- 2,4-Dichlorobenzene
- Carbazole.t
- 4-Chlorophenyl ether.t
- Hexachlorocyclopentadiene
- 2,4-Dinitrophenol
- 2-Nitroanisole
- 2-Nitrophenol
- 2-Ethoxyphenyl ether.t
- 2-Methoxyphenyl ether.t
- 2,3,4-Trifluorobenzene
- 4,6-Dinitrophenyl ether.t
- 2,4,6-Trinitrophenol
- 4-Ethoxyphenyl ether.t
- Pentachlorophenol
- Anthracene
- Carbazole.t
- Di-n-butylphthalate.t
- Fluoranthene.t
- Pyrene.t
- Terphenyl-d14.S
- Butylbenzylphthalate.t
- Butyl stearate
- Chrysene.t
- bis(2-Ethylhexyl)phthalate.t
- Di-n-octylphthalate.t
- Benzo[a]pyrene.t
- Dibenz(a,h)acridine.t
- Dibenz(a,h)fluorene.t
- Benzo[g,h,i]perylene.t

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1539\
 Data File : 2p37008.D
 Acq On : 28 May 2014 11:03 pm
 Operator : ashleyd
 Sample : ic1539-1
 Misc : op75027,e2p1539
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 29 16:29:06 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Thu May 29 16:17:53 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.624	152	792493	40.00	ppb	0.00
24) Naphthalene-d8	4.967	136	2937287	40.00	ppb	0.00
47) Acenaphthene-d10	7.026	164	1564477	40.00	ppb	0.00
69) Phenanthrene-d10	8.829	188	2435016	40.00	ppb	0.00
83) Chrysene-d12	12.567	240	2241615	40.00	ppb	0.00
92) Perylene-d12	14.626	264	1957052	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	3.624	152	792493	40.00	ppb	0.00
104) Acenaphthene-d10a	7.026	164	1564477	40.00	ppb	0.00
107) Chrysene-d12a	12.567	240	2241615	40.00	ppb	0.00
110) Phenanthrene-d10a	8.829	188	2435016	40.00	ppb	0.00
112) Naphthalene-d8a	4.967	136	2937287	40.00	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol	2.522	112	27255	1.01	ppb	0.00
Spiked Amount	50.000	Range	11 - 58	Recovery	=	2.02%#
8) Phenol-d5	3.261	99	33690	1.03	ppb	0.00
Spiked Amount	50.000	Range	10 - 59	Recovery	=	2.06%#
25) Nitrobenzene-d5	4.175	82	27051	1.03	ppb	0.00
Spiked Amount	50.000	Range	19 - 61	Recovery	=	2.06%#
51) 2-Fluorobiphenyl	6.234	172	52867	1.08	ppb	0.00
Spiked Amount	50.000	Range	21 - 58	Recovery	=	2.16%#
73) 2,4,6-Tribromophenol	7.973	330	2921	0.52	ppb	0.00
Spiked Amount	50.000	Range	12 - 68	Recovery	=	1.04%#
85) Terphenyl-d14	11.038	244	42085	0.94	ppb	0.00
Spiked Amount	50.000	Range	16 - 65	Recovery	=	1.88%#
108) 1-chlorooctadecane	0.000	57	0	0.00	ppb	
111) O-terphenyl	0.000	230	0	0.00	ppb	

Target Compounds

Qvalue

2) 1,4-Dioxane	1.624	88	10345m	0.84	ppb	
3) Pyridine	1.784	79	31670	1.04	ppb	97
4) N-Nitrosodimethylamine	1.758	74	15121	0.99	ppb	100
6) Indene	3.881	116	55980	1.07	ppb	97
7) Cumene	2.929	105	76739	1.02	ppb	99
9) Phenol	3.271	94	39104	1.11	ppb	97
10) Aniline	3.314	93	42809	1.14	ppb	98
11) bis(2-Chloroethyl)ether	3.368	93	25392	1.04	ppb	94
12) 2-Chlorophenol	3.426	128	32856	1.10	ppb	97
13) Decane	3.475	57	33349	1.10	ppb	95
14) 1,3-Dichlorobenzene	3.576	146	33783	1.04	ppb	96
15) 1,4-Dichlorobenzene	3.640	146	34593	1.08	ppb	94
16) Benzyl alcohol	3.747	108	18298	1.02	ppb	93
17) 1,2-Dichlorobenzene	3.790	146	33055	1.10	ppb	99
18) Acetophenone	4.020	105	46868	1.09	ppb	97
19) 2-Methylphenol	3.860	108	26158	1.07	ppb	97
20) 2,2'-oxybis(1-Chloropr...	3.897	121	8432	1.08	ppb	96
21) 3&4-Methylphenol	4.020	108	28346	1.11	ppb	99
22) n-Nitroso-di-n-propyla...	4.025	70	18103	1.12	ppb	95
23) Hexachloroethane	4.138	201	10541	1.06	ppb	88

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1539\
 Data File : 2p37008.D
 Acq On : 28 May 2014 11:03 pm
 Operator : ashleyd
 Sample : ic1539-1
 Misc : op75027,e2p1539
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 29 16:29:06 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Thu May 29 16:17:53 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Nitrobenzene	4.197	77	29402	1.09	ppb	96
27) Quinoline	5.363	129	63176	1.01	ppb	99
28) Isophorone	4.453	82	47837	1.04	ppb	98
29) 2-Nitrophenol	4.544	139	13839	0.99	ppb	98
30) 2,4-Dimethylphenol	4.598	107	21135	0.97	ppb	96
31) Benzoic acid	4.651	105	4856	4.40	ppb	92
32) bis(2-Chloroethoxy)met...	4.705	93	30396	1.06	ppb	98
33) 2,4-Dichlorophenol	4.806	162	21614	1.01	ppb	99
34) 2,6-Dichlorophenol	5.063	162	20392	1.01	ppb	94
35) 1,3,5-Trichlorobenzene	4.560	180	29907	1.06	ppb	98
36) 1,2,4-Trichlorobenzene	4.903	180	24795	1.04	ppb	99
37) 1,2,3-Trichlorobenzene	5.154	180	27159	1.04	ppb	99
38) Naphthalene	4.988	128	89973	1.15	ppb	99
39) 4-Chloroaniline	5.052	127	37035	1.09	ppb	97
40) 2,3-Dichloroaniline	6.122	161	31964	1.04	ppb	97
41) Caprolactam	5.405	113	7805	0.89	ppb	93
42) Hexachlorobutadiene	5.149	225	12576	1.09	ppb	96
43) 4-Chloro-3-methylphenol	5.630	107	22796	1.01	ppb	93
44) 2-Methylnaphthalene	5.790	141	48067	1.06	ppb	96
45) 1-Methylnaphthalene	5.903	141	55016	1.07	ppb	100
46) Dimethylnaphthalene	6.534	156	53115	1.07	ppb	99
48) Hexachlorocyclopentadiene	5.994	237	15946	1.41	ppb	98
49) 2,4,6-Trichlorophenol	6.133	196	11687	0.89	ppb	98
50) 2,4,5-Trichlorophenol	6.165	196	12836	0.88	ppb	97
52) 2-Chloronaphthalene	6.357	162	51878	1.12	ppb	99
53) Biphenyl	6.347	154	74446	1.09	ppb	95
54) 2-Nitroaniline	6.486	65	11542	0.86	ppb	96
55) Dimethylphthalate	6.732	163	56227	1.11	ppb	99
56) Acenaphthylene	6.850	152	78641	1.03	ppb	98
57) 2,6-Dinitrotoluene	6.791	165	8937	0.83	ppb	99
58) 3-Nitroaniline	6.983	138	12990	0.89	ppb	91
59) Acenaphthene	7.063	153	51374	1.08	ppb	98
60) 2,4-Dinitrophenol	7.106	184	2090	9.39	ppb	66
61) 4-Nitrophenol	7.208	109	4312	0.66	ppb	97
62) Dibenzofuran	7.272	168	73599	1.17	ppb	97
63) 2,4-Dinitrotoluene	7.267	165	11524	0.81	ppb	83
64) 2,3,4,6-Tetrachlorophenol	7.433	232	6414	0.67	ppb	96
65) Diethylphthalate	7.588	149	55358	1.05	ppb	97
66) Fluorene	7.684	166	54506	1.07	ppb	98
67) 4-Chlorophenyl-phenyle...	7.705	204	21366	1.02	ppb	97
68) 4-Nitroaniline	7.711	138	13660	0.97	ppb	96
70) 4,6-Dinitro-2-methylph...	7.759	198	1544	4.27	ppb	88
71) n-Nitrosodiphenylamine	7.844	169	33964	1.00	ppb	98
72) 1,2-Diphenylhydrazine	7.893	77	54654	1.03	ppb	98
74) 4-Bromophenyl-phenylether	8.294	248	11985	1.00	ppb	98
75) Hexachlorobenzene	8.352	284	13908	0.99	ppb	84
76) Pentachlorophenol	8.604	266	6020	5.94	ppb	96
77) Phenanthrene	8.855	178	78433	1.11	ppb	97
78) Anthracene	8.914	178	71573	1.03	ppb	99
79) Carbazole	9.133	167	80992	1.00	ppb	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1539\
 Data File : 2p37008.D
 Acq On : 28 May 2014 11:03 pm
 Operator : ashleyd
 Sample : ic1539-1
 Misc : op75027,e2p1539
 ALS Vial : 9 Sample Multiplier: 1

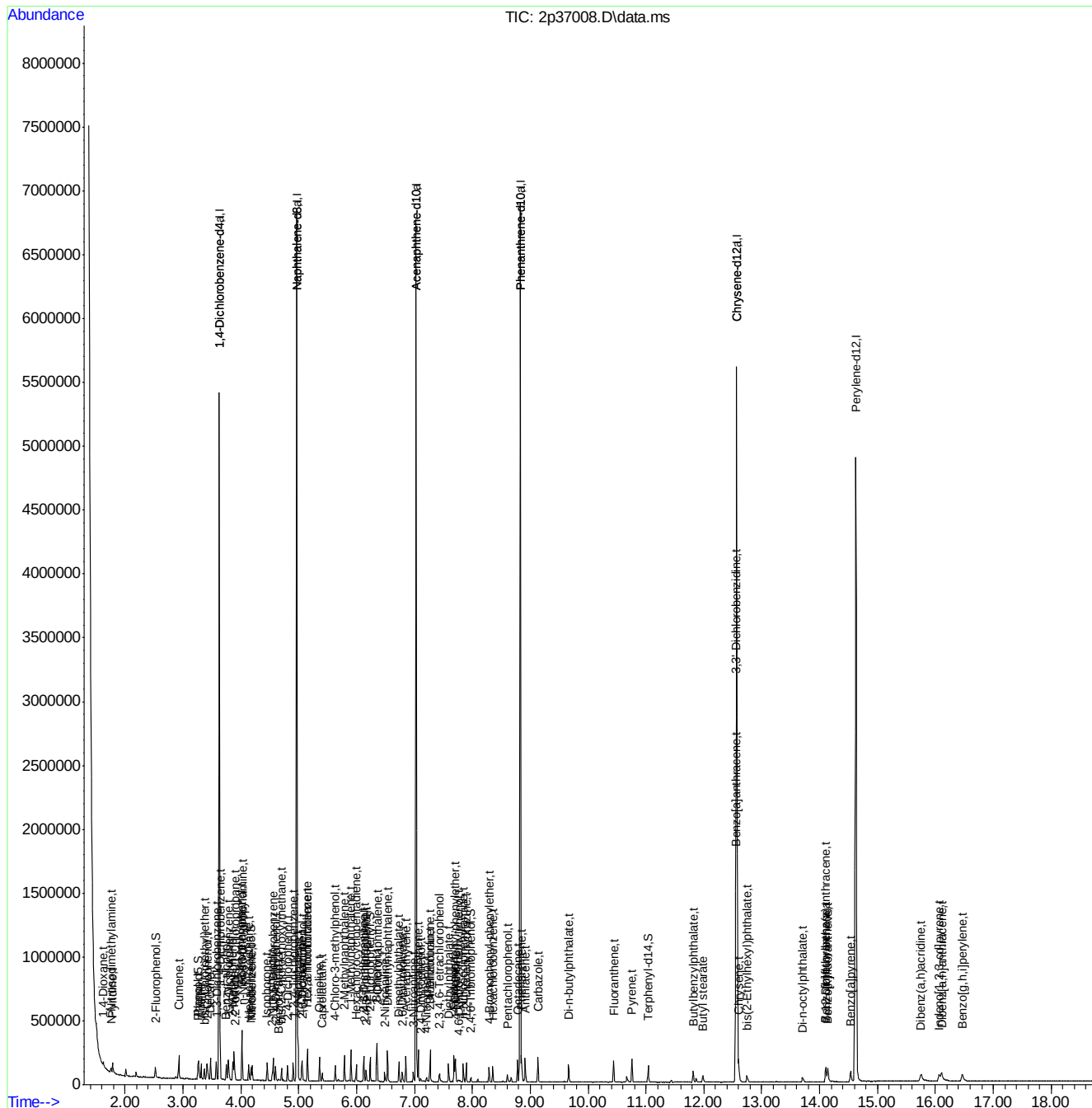
Quant Time: May 29 16:29:06 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Thu May 29 16:17:53 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) Di-n-butylphthalate	9.663	149	82922	0.94	ppb	100
81) Fluoranthene	10.444	202	72474	0.97	ppb	98
82) Octadecane	8.780	43	22603	1.01	ppb	87
84) Pyrene	10.754	202	75990	0.97	ppb	97
86) Butylbenzylphthalate	11.813	149	27131	0.74	ppb	92
87) Butyl stearate	11.984	56	12004	0.63	ppb	91
88) Benzo[a]anthracene	12.551	228	69599	1.05	ppb	96
89) 3,3'-Dichlorobenzidine	12.557	252	14773	0.69	ppb	88
90) Chrysene	12.599	228	59061	1.02	ppb	98
91) bis(2-Ethylhexyl)phtha...	12.744	149	27508	0.56	ppb	99
93) Di-n-octylphthalate	13.706	149	31799	2.13	ppb	98
94) Benzo[b]fluoranthene	14.102	252	47370	0.74	ppb	97
95) Benzo[k]fluoranthene	14.140	252	56116	0.97	ppb	98
96) Benzo[a]pyrene	14.536	252	41775	0.77	ppb	95
97) Indeno[1,2,3-cd]pyrene	16.065	276	48264	0.95	ppb	87
98) Dibenz(a,h)acridine	15.744	279	31266	0.57	ppb	98
99) Dibenz[a,h]anthracene	16.108	278	38618	0.75	ppb	89
100) 7,12-Dimethylbenz(a)an...	14.108	256	5494	3.42	ppb	90
101) Benzo[g,h,i]perylene	16.466	276	39275	0.75	ppb	90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\2P1539\
Data File : 2p37008.D
Acq On : 28 May 2014 11:03 pm
Operator : ashleyd
Sample : ic1539-1
Misc : op75027,e2p1539
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 29 16:29:06 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 29 16:17:53 2014
Response via : Initial Calibration



9.6.8

Manual Integration Approval Summary

Sample Number: E2P1539-IC1539

Method: SW846 8270D

Lab FileID: 2P37008.D

Analyst approved: 05/29/14 16:36 Olga Azarihn

Injection Time: 05/28/14 23:03

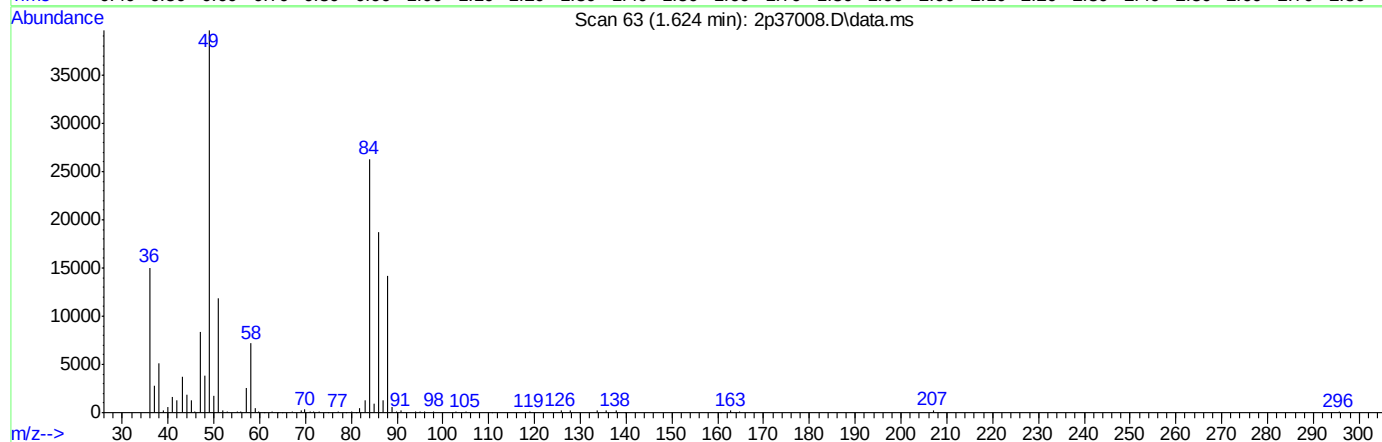
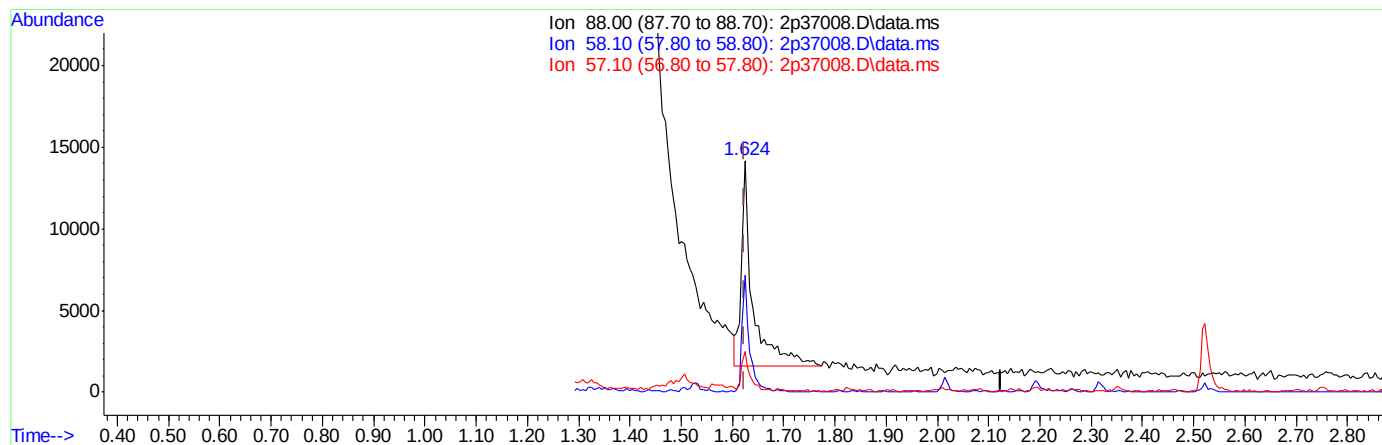
Supervisor approved: 05/30/14 13:01 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
1,4-Dioxane	123-91-1		1.62	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1539\
Data File : 2p37008.D
Acq On : 28 May 2014 11:03 pm
Operator : ashleyd
Sample : ic1539-1
Misc : op75027,e2p1539
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 29 08:12:39 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 29 08:11:17 2014
Response via : Initial Calibration



TIC: 2p37008.D\data.ms

(2) 1,4-Dioxane (t)

1.624min (+0.000) 1.65ppb

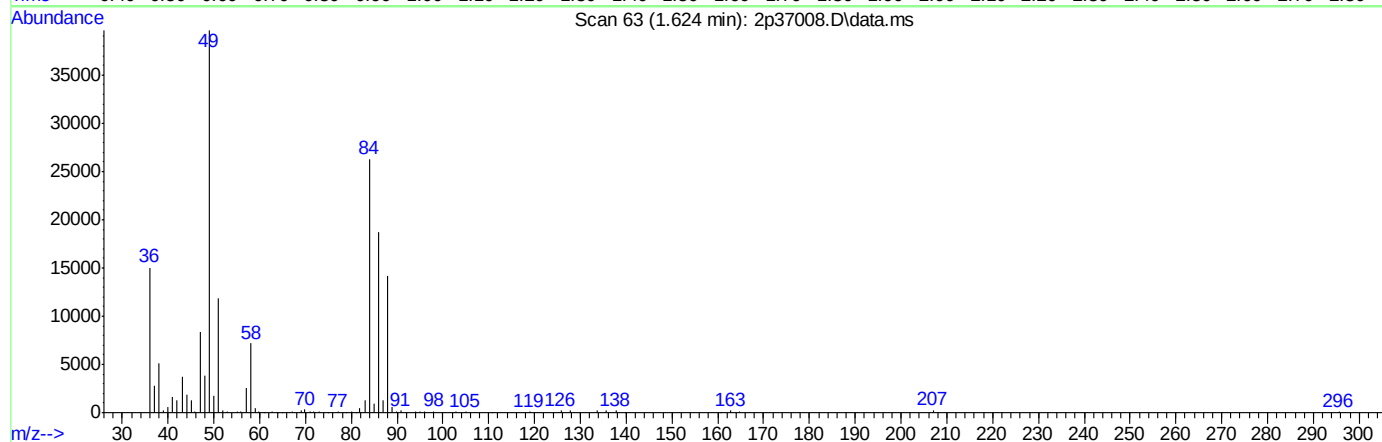
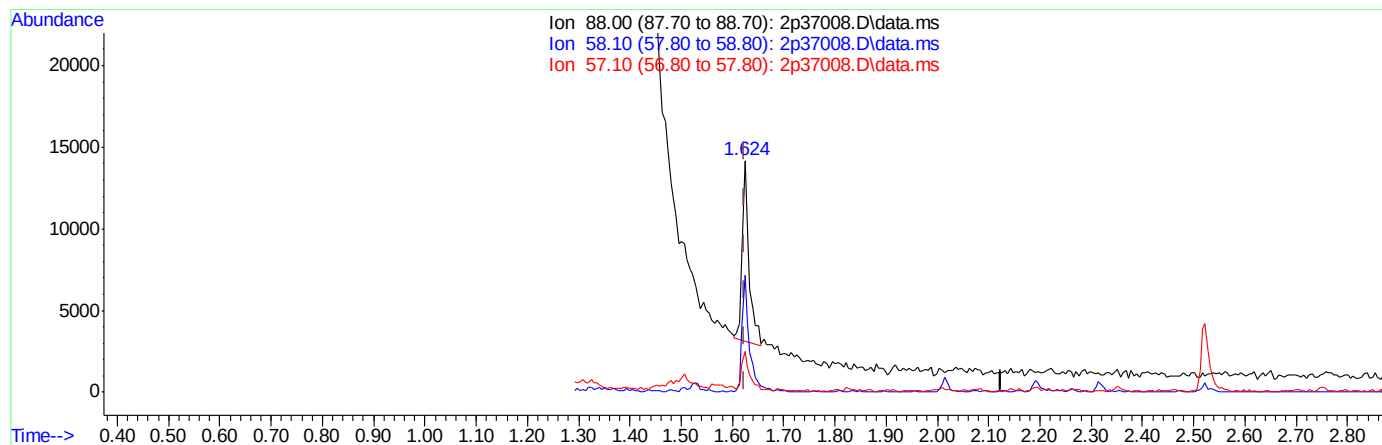
response 19840

Ion	Exp%	Act%
88.00	100	100
58.10	60.00	61.35
57.10	22.90	20.35
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1539\
Data File : 2p37008.D
Acq On : 28 May 2014 11:03 pm
Operator : ashleyd
Sample : ic1539-1
Misc : op75027,e2p1539
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 29 16:21:16 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 29 16:17:53 2014
Response via : Initial Calibration



(2) 1,4-Dioxane (t)

1.624min (+0.000) 0.84ppb m

response 10345

Ion	Exp%	Act%
88.00	100	100
58.10	60.00	50.58
57.10	22.90	17.71
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1540\
 Data File : 2p37010.D
 Acq On : 29 May 2014 9:15 am
 Operator : olgaa
 Sample : ic1540-100
 Misc : op75027,e2p1540,
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 29 12:26:19 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Thu May 29 12:24:36 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

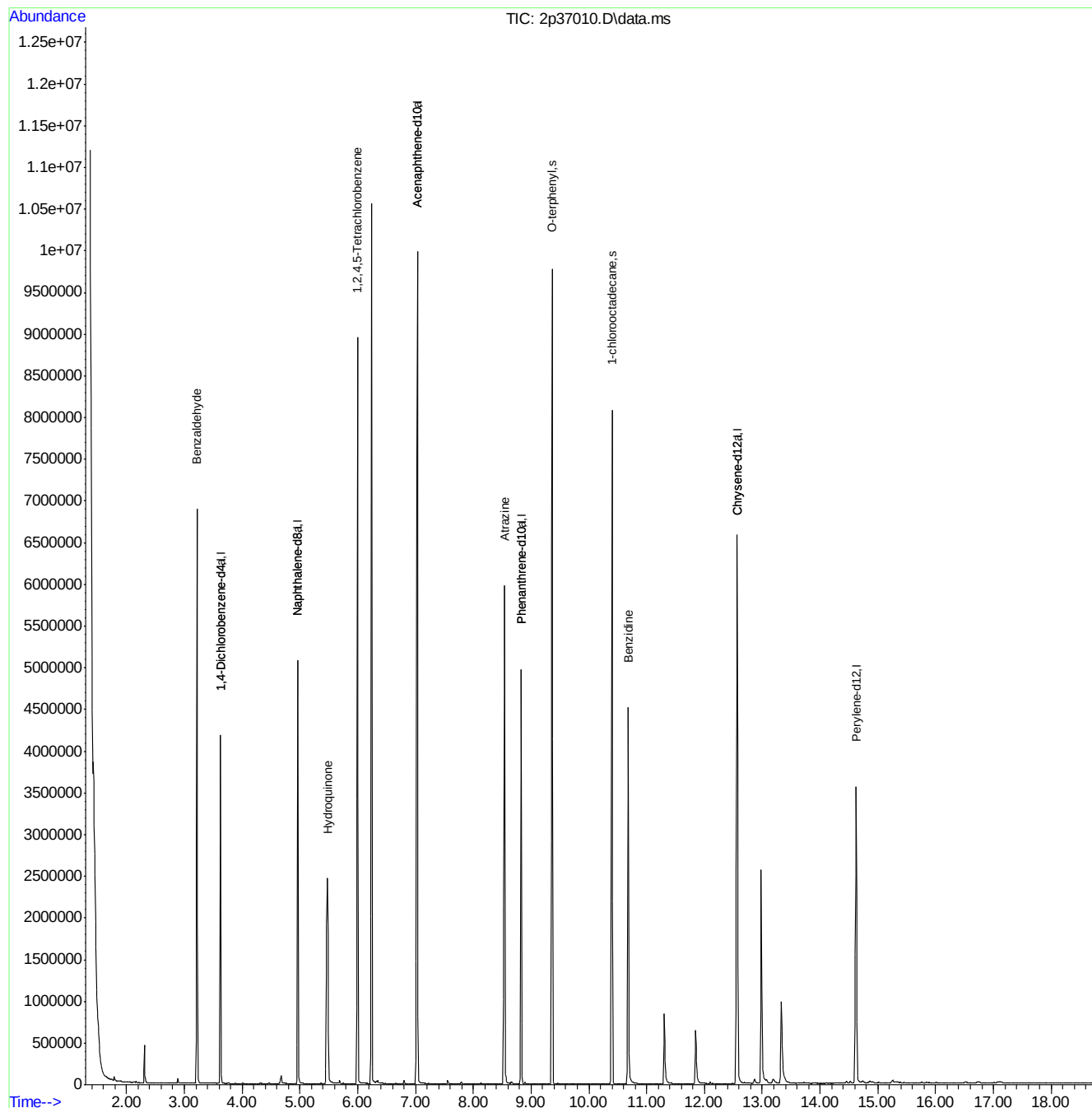
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.624	152	587836	40.00	ppb	0.00
24) Naphthalene-d8	4.961	136	2249322	40.00	ppb	0.00
47) Acenaphthene-d10	7.031	164	1063649	40.00	ppb	0.00
69) Phenanthrene-d10	8.828	188	1744525	40.00	ppb	0.00
83) Chrysene-d12	12.567	240	1594666	40.00	ppb	0.00
92) Perylene-d12	14.626	264	1488992	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	3.624	152	587836	40.00	ppb	0.00
104) Acenaphthene-d10a	7.031	164	1063649	40.00	ppb	0.00
107) Chrysene-d12a	12.567	240	1594666	40.00	ppb	0.00
110) Phenanthrene-d10a	8.828	188	1744525	40.00	ppb	0.00
112) Naphthalene-d8a	4.961	136	2249322	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount 50.000	Range 11 - 58		Recovery =	0.00%	#	
8) Phenol-d5	0.000	99	0	0.00	ppb	
Spiked Amount 50.000	Range 10 - 59		Recovery =	0.00%	#	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppb	
Spiked Amount 50.000	Range 19 - 61		Recovery =	0.00%	#	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppb	
Spiked Amount 50.000	Range 21 - 58		Recovery =	0.00%	#	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount 50.000	Range 12 - 68		Recovery =	0.00%	#	
85) Terphenyl-d14	0.000	244	0	0.00	ppb	
Spiked Amount 50.000	Range 16 - 65		Recovery =	0.00%	#	
108) 1-chlorooctadecane	10.401	57	1328703	100.00	ppb	0.00
111) O-terphenyl	9.369	230	2123077	99.95	ppb	0.00
Target Compounds						
103) Benzaldehyde	3.223	105	1389955	99.93	ppb	Qvalue 91
105) Atrazine	8.540	215	422889	100.00	ppb	88
106) 1,2,4,5-Tetrachloroben...	5.999	216	1498609	100.00	ppb	97
109) Benzidine	10.679	184	2063272	99.05	ppb	99
113) Hydroquinone	5.475	110	2073248	100.00	ppb	89

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1540\
Data File : 2p37010.D
Acq On : 29 May 2014 9:15 am
Operator : olgaa
Sample : ic1540-100
Misc : op75027,e2p1540,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 29 12:26:19 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 29 12:24:36 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1540\
 Data File : 2p37011.D
 Acq On : 29 May 2014 9:38 am
 Operator : olgaa
 Sample : ic1540-80
 Misc : op75027,e2p1540,
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 29 12:27:10 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Thu May 29 12:24:36 2014
 Response via : Initial Calibration

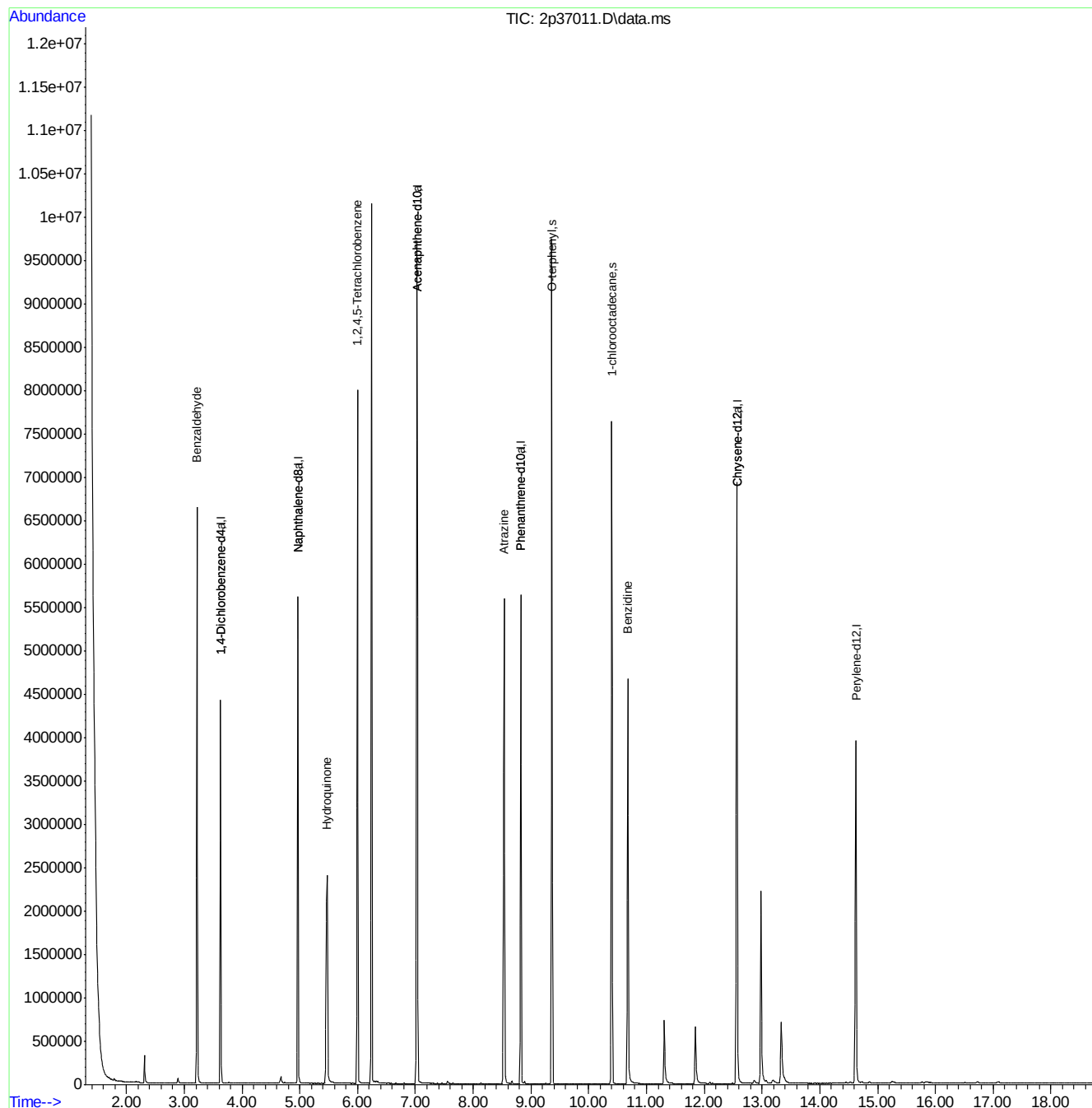
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.624	152	656976	40.00	ppb	0.00
24) Naphthalene-d8	4.967	136	2514535	40.00	ppb	0.00
47) Acenaphthene-d10	7.031	164	1212659	40.00	ppb	0.00
69) Phenanthrene-d10	8.828	188	1959796	40.00	ppb	0.00
83) Chrysene-d12	12.567	240	1789722	40.00	ppb	0.00
92) Perylene-d12	14.626	264	1668359	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	3.624	152	656976	40.00	ppb	0.00
104) Acenaphthene-d10a	7.031	164	1212659	40.00	ppb	0.00
107) Chrysene-d12a	12.567	240	1789722	40.00	ppb	0.00
110) Phenanthrene-d10a	8.828	188	1959796	40.00	ppb	0.00
112) Naphthalene-d8a	4.967	136	2514535	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount	50.000	Range	11 - 58	Recovery	=	0.00%#
8) Phenol-d5	0.000	99	0	0.00	ppb	
Spiked Amount	50.000	Range	10 - 59	Recovery	=	0.00%#
25) Nitrobenzene-d5	0.000	82	0	0.00	ppb	
Spiked Amount	50.000	Range	19 - 61	Recovery	=	0.00%#
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppb	
Spiked Amount	50.000	Range	21 - 58	Recovery	=	0.00%#
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount	50.000	Range	12 - 68	Recovery	=	0.00%#
85) Terphenyl-d14	0.000	244	0	0.00	ppb	
Spiked Amount	50.000	Range	16 - 65	Recovery	=	0.00%#
108) 1-chlorooctadecane	10.401	57	1227985	82.35	ppb	0.00
111) O-terphenyl	9.363	230	1958444	82.07	ppb	0.00
Target Compounds						
103) Benzaldehyde	3.223	105	1318744	84.83	ppb	Qvalue 89
105) Atrazine	8.539	215	385784	80.02	ppb	93
106) 1,2,4,5-Tetrachloroben...	5.999	216	1366683	79.99	ppb	97
109) Benzidine	10.679	184	2069618	88.52	ppb	99
113) Hydroquinone	5.475	110	1887759	81.45	ppb	90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1540\
Data File : 2p37011.D
Acq On : 29 May 2014 9:38 am
Operator : olgaa
Sample : ic1540-80
Misc : op75027,e2p1540,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 29 12:27:10 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 29 12:24:36 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1540\
 Data File : 2p37012.D
 Acq On : 29 May 2014 10:02 am
 Operator : olgaa
 Sample : icc1540-50
 Misc : op75027,e2p1540,
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 29 12:27:55 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Thu May 29 12:24:36 2014
 Response via : Initial Calibration

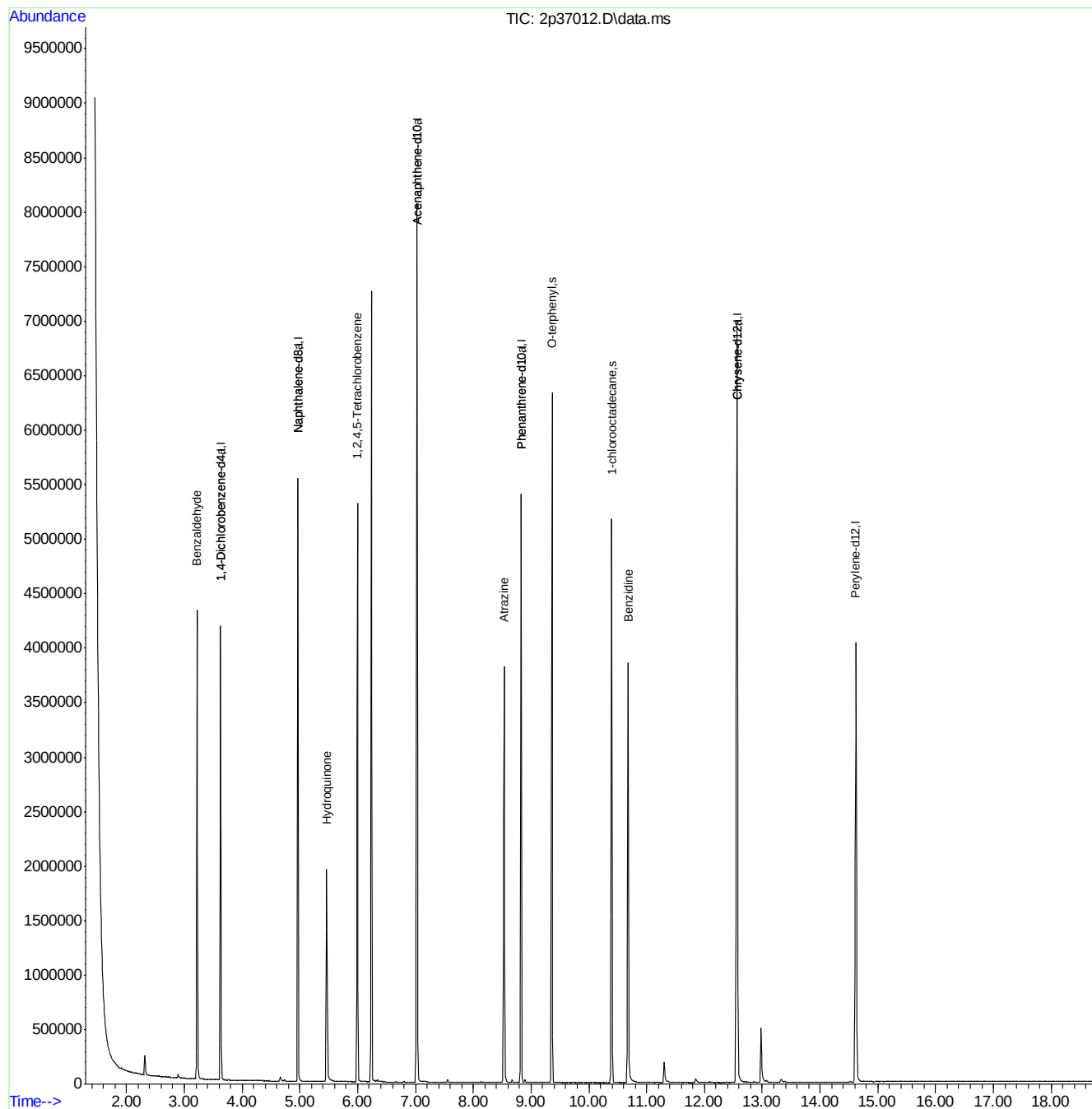
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.624	152	657732	40.00	ppb	0.00
24) Naphthalene-d8	4.967	136	2468174	40.00	ppb	0.00
47) Acenaphthene-d10	7.031	164	1229812	40.00	ppb	0.00
69) Phenanthrene-d10	8.828	188	1956204	40.00	ppb	0.00
83) Chrysene-d12	12.567	240	1781215	40.00	ppb	0.00
92) Perylene-d12	14.621	264	1647490	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	3.624	152	657732	40.00	ppb	0.00
104) Acenaphthene-d10a	7.031	164	1229812	40.00	ppb	0.00
107) Chrysene-d12a	12.567	240	1781215	40.00	ppb	0.00
110) Phenanthrene-d10a	8.828	188	1956204	40.00	ppb	0.00
112) Naphthalene-d8a	4.967	136	2468174	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount	50.000	Range	11 - 58	Recovery	=	0.00%#
8) Phenol-d5	0.000	99	0	0.00	ppb	
Spiked Amount	50.000	Range	10 - 59	Recovery	=	0.00%#
25) Nitrobenzene-d5	0.000	82	0	0.00	ppb	
Spiked Amount	50.000	Range	19 - 61	Recovery	=	0.00%#
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppb	
Spiked Amount	50.000	Range	21 - 58	Recovery	=	0.00%#
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount	50.000	Range	12 - 68	Recovery	=	0.00%#
85) Terphenyl-d14	0.000	244	0	0.00	ppb	
Spiked Amount	50.000	Range	16 - 65	Recovery	=	0.00%#
108) 1-chlorooctadecane	10.395	57	821997	55.39	ppb	0.00
111) O-terphenyl	9.363	230	1242812	52.18	ppb	0.00
Target Compounds						
103) Benzaldehyde	3.223	105	870337	55.92	ppb	Qvalue 90
105) Atrazine	8.534	215	237631	48.60	ppb	95
106) 1,2,4,5-Tetrachloroben...	5.994	216	860230	49.65	ppb	98
109) Benzidine	10.679	184	1807257	77.67	ppb	99
113) Hydroquinone	5.464	110	1165664	51.24	ppb	90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1540\
Data File : 2p37012.D
Acq On : 29 May 2014 10:02 am
Operator : olgaa
Sample : icc1540-50
Misc : op75027,e2p1540,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 29 12:27:55 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 29 12:24:36 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1540\
 Data File : 2p37013.D
 Acq On : 29 May 2014 10:25 am
 Operator : olgaa
 Sample : ic1540-25
 Misc : op75027,e2p1540,
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 29 12:28:48 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Thu May 29 12:24:36 2014
 Response via : Initial Calibration

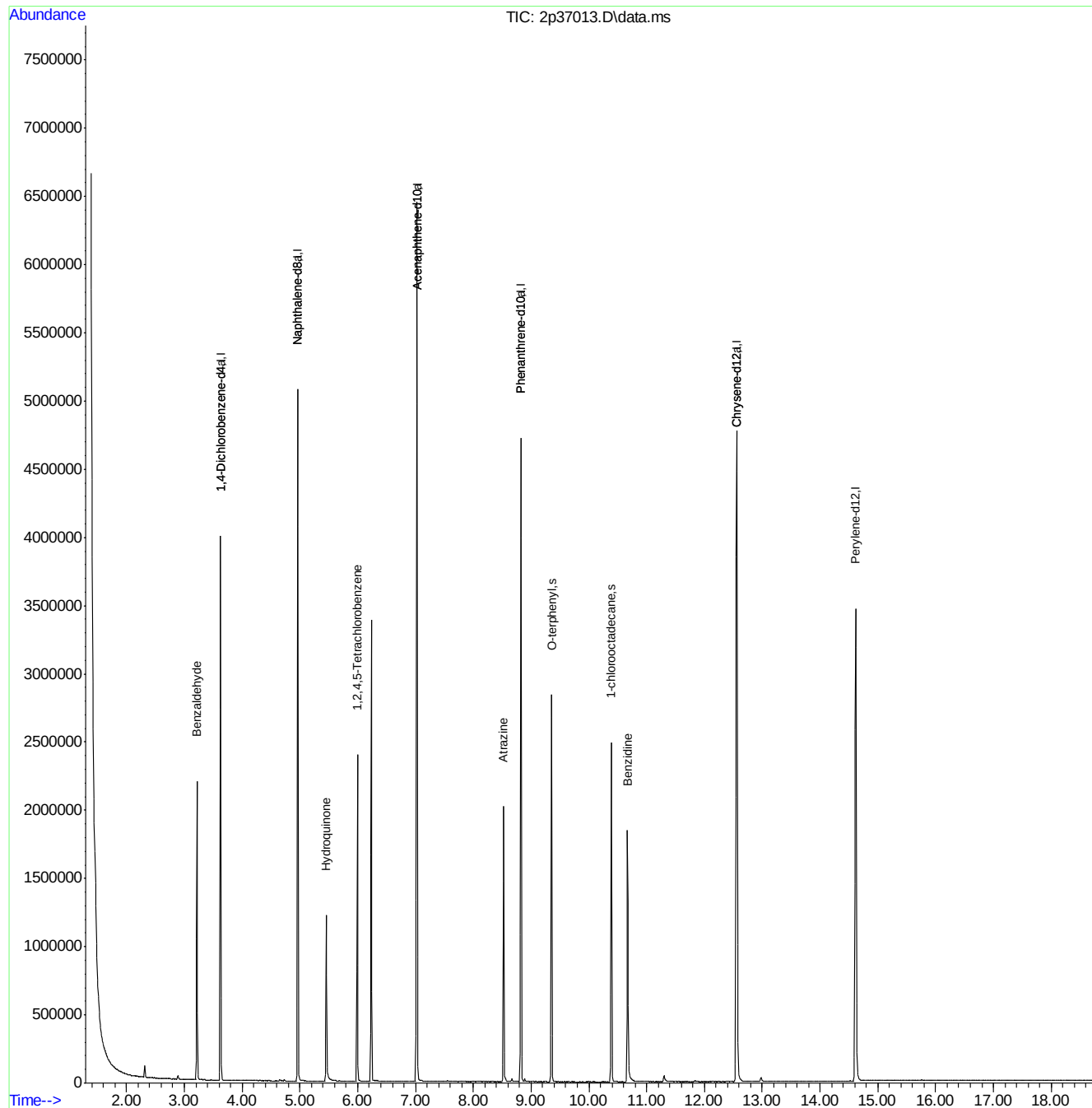
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.624	152	571398	40.00	ppb	0.00
24) Naphthalene-d8	4.961	136	2155356	40.00	ppb	0.00
47) Acenaphthene-d10	7.026	164	1108434	40.00	ppb	0.00
69) Phenanthrene-d10	8.823	188	1712677	40.00	ppb	0.00
83) Chrysene-d12	12.562	240	1520768	40.00	ppb	0.00
92) Perylene-d12	14.616	264	1387881	40.00	ppb	-0.01
102) 1,4-Dichlorobenzene-d4a	3.624	152	571398	40.00	ppb	0.00
104) Acenaphthene-d10a	7.026	164	1108434	40.00	ppb	0.00
107) Chrysene-d12a	12.562	240	1520768	40.00	ppb	0.00
110) Phenanthrene-d10a	8.823	188	1712677	40.00	ppb	0.00
112) Naphthalene-d8a	4.961	136	2155356	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount	50.000	Range	11 - 58	Recovery	=	0.00%#
8) Phenol-d5	0.000	99	0	0.00	ppb	
Spiked Amount	50.000	Range	10 - 59	Recovery	=	0.00%#
25) Nitrobenzene-d5	0.000	82	0	0.00	ppb	
Spiked Amount	50.000	Range	19 - 61	Recovery	=	0.00%#
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppb	
Spiked Amount	50.000	Range	21 - 58	Recovery	=	0.00%#
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount	50.000	Range	12 - 68	Recovery	=	0.00%#
85) Terphenyl-d14	0.000	244	0	0.00	ppb	
Spiked Amount	50.000	Range	16 - 65	Recovery	=	0.00%#
108) 1-chlorooctadecane	10.390	57	373867	29.51	ppb	-0.01
111) O-terphenyl	9.358	230	540098	25.90	ppb	-0.01
Target Compounds						
103) Benzaldehyde	3.218	105	395531	29.25	ppb	90
105) Atrazine	8.524	215	99599	22.60	ppb	90
106) 1,2,4,5-Tetrachloroben...	5.994	216	381988	24.46	ppb	97
109) Benzidine	10.668	184	793164	39.93	ppb	99
113) Hydroquinone	5.454	110	488658	24.60	ppb	90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1540\
Data File : 2p37013.D
Acq On : 29 May 2014 10:25 am
Operator : olgaa
Sample : ic1540-25
Misc : op75027,e2p1540,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 29 12:28:48 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 29 12:24:36 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1540\
 Data File : 2p37014.D
 Acq On : 29 May 2014 10:48 am
 Operator : olgaa
 Sample : ic1540-10
 Misc : op75027,e2p1540,
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 29 12:29:27 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Thu May 29 12:24:36 2014
 Response via : Initial Calibration

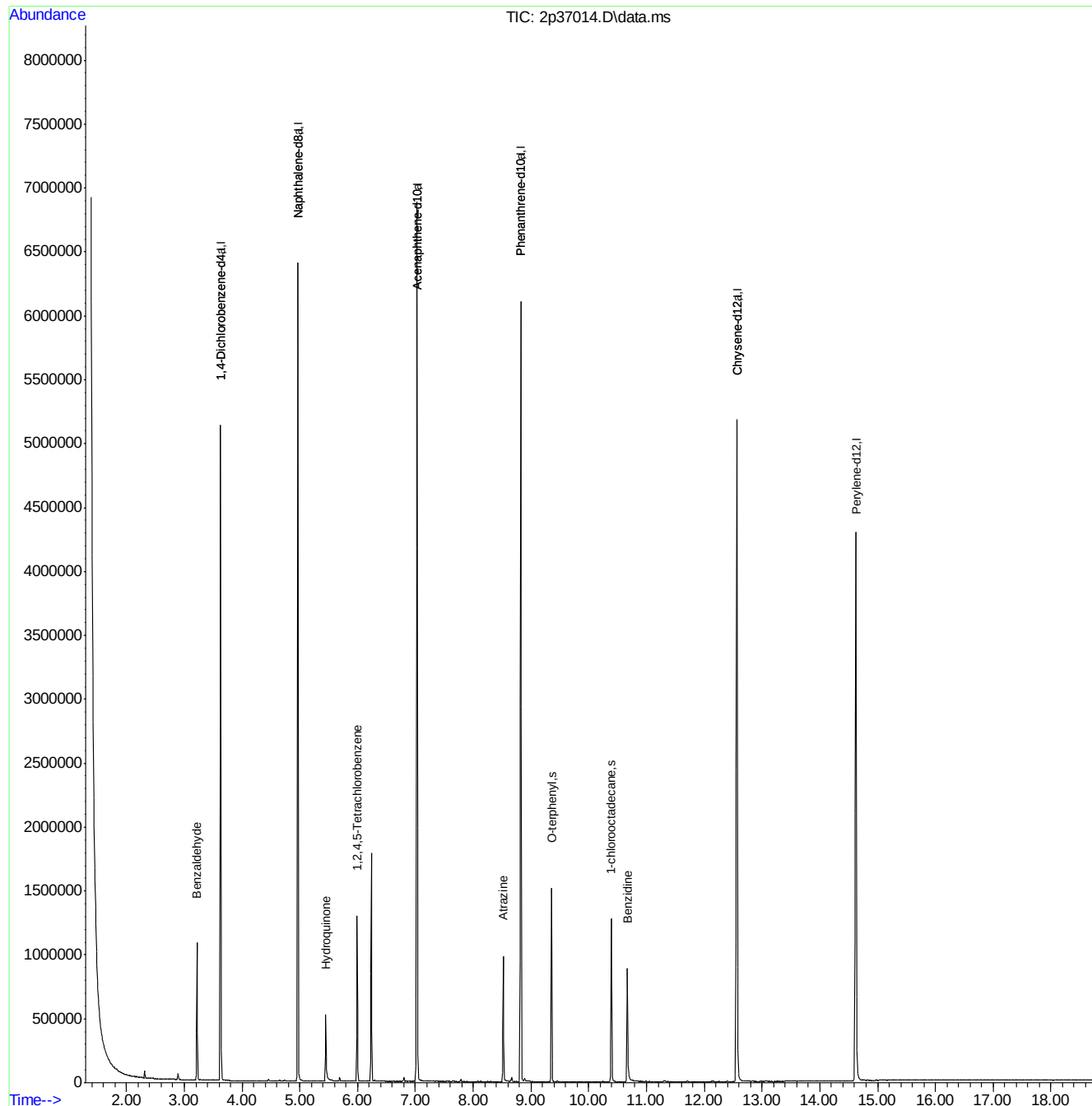
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.624	152	753149	40.00	ppb	0.00
24) Naphthalene-d8	4.967	136	2817988	40.00	ppb	0.00
47) Acenaphthene-d10	7.026	164	1440303	40.00	ppb	0.00
69) Phenanthrene-d10	8.828	188	2248421	40.00	ppb	0.00
83) Chrysene-d12	12.567	240	2008996	40.00	ppb	0.00
92) Perylene-d12	14.626	264	1821921	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	3.624	152	753149	40.00	ppb	0.00
104) Acenaphthene-d10a	7.026	164	1440303	40.00	ppb	0.00
107) Chrysene-d12a	12.567	240	2008996	40.00	ppb	0.00
110) Phenanthrene-d10a	8.828	188	2248421	40.00	ppb	0.00
112) Naphthalene-d8a	4.967	136	2817988	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount	50.000	Range	11 - 58	Recovery	=	0.00%#
8) Phenol-d5	0.000	99	0	0.00	ppb	
Spiked Amount	50.000	Range	10 - 59	Recovery	=	0.00%#
25) Nitrobenzene-d5	0.000	82	0	0.00	ppb	
Spiked Amount	50.000	Range	19 - 61	Recovery	=	0.00%#
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppb	
Spiked Amount	50.000	Range	21 - 58	Recovery	=	0.00%#
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount	50.000	Range	12 - 68	Recovery	=	0.00%#
85) Terphenyl-d14	0.000	244	0	0.00	ppb	
Spiked Amount	50.000	Range	16 - 65	Recovery	=	0.00%#
108) 1-chlorooctadecane	10.390	57	193709	11.57	ppb	-0.01
111) O-terphenyl	9.358	230	282992	10.34	ppb	-0.01
Target Compounds						
103) Benzaldehyde	3.218	105	210110	11.79	ppb	90
105) Atrazine	8.523	215	49917	8.72	ppb	96
106) 1,2,4,5-Tetrachloroben...	5.994	216	199577	9.83	ppb	99
109) Benzidine	10.668	184	403959	15.39	ppb	99
113) Hydroquinone	5.448	110	227623	8.76	ppb	91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1540\
Data File : 2p37014.D
Acq On : 29 May 2014 10:48 am
Operator : olgaa
Sample : ic1540-10
Misc : op75027,e2p1540,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 29 12:29:27 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 29 12:24:36 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1540\
 Data File : 2p37015.D
 Acq On : 29 May 2014 11:11 am
 Operator : olgaa
 Sample : ic1540-5
 Misc : op75027,e2p1540,
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 29 12:30:04 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Thu May 29 12:24:36 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.624	152	648433	40.00	ppb	0.00
24) Naphthalene-d8	4.967	136	2408961	40.00	ppb	0.00
47) Acenaphthene-d10	7.026	164	1252264	40.00	ppb	0.00
69) Phenanthrene-d10	8.828	188	1907687	40.00	ppb	0.00
83) Chrysene-d12	12.567	240	1681753	40.00	ppb	0.00
92) Perylene-d12	14.621	264	1527556	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	3.624	152	648433	40.00	ppb	0.00
104) Acenaphthene-d10a	7.026	164	1252264	40.00	ppb	0.00
107) Chrysene-d12a	12.567	240	1681753	40.00	ppb	0.00
110) Phenanthrene-d10a	8.828	188	1907687	40.00	ppb	0.00
112) Naphthalene-d8a	4.967	136	2408961	40.00	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount	50.000	Range	11 - 58	Recovery	=	0.00%#
8) Phenol-d5	0.000	99	0	0.00	ppb	
Spiked Amount	50.000	Range	10 - 59	Recovery	=	0.00%#
25) Nitrobenzene-d5	0.000	82	0	0.00	ppb	
Spiked Amount	50.000	Range	19 - 61	Recovery	=	0.00%#
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppb	
Spiked Amount	50.000	Range	21 - 58	Recovery	=	0.00%#
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount	50.000	Range	12 - 68	Recovery	=	0.00%#
85) Terphenyl-d14	0.000	244	0	0.00	ppb	
Spiked Amount	50.000	Range	16 - 65	Recovery	=	0.00%#
108) 1-chlorooctadecane	10.390	57	76479	5.46	ppb	-0.01
111) O-terphenyl	9.358	230	119448	5.14	ppb	-0.01

Target Compounds

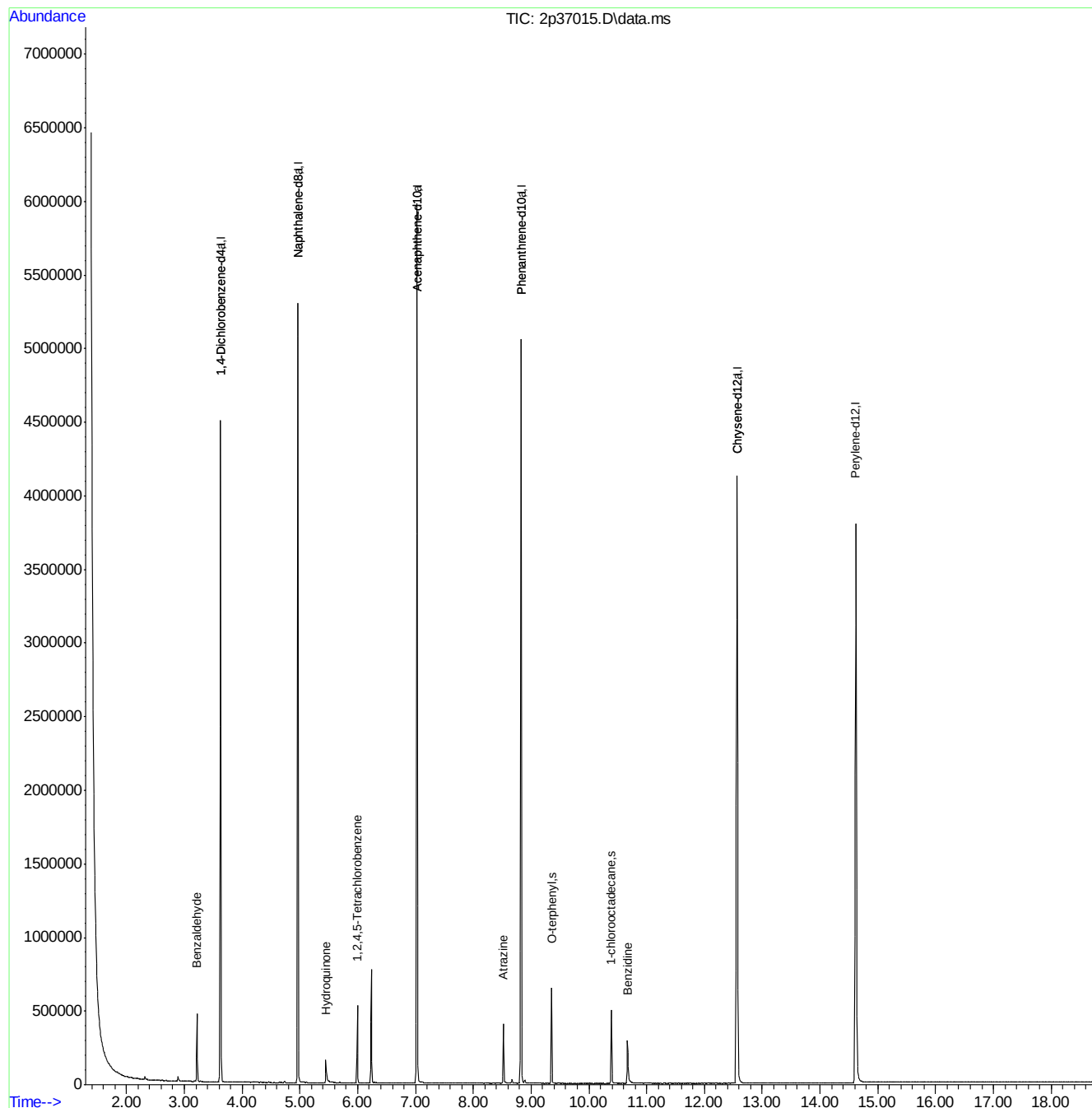
						Qvalue
103) Benzaldehyde	3.218	105	89660	5.84	ppb	91
105) Atrazine	8.518	215	19083	3.83	ppb	# 85
106) 1,2,4,5-Tetrachloroben...	5.994	216	86178	4.88	ppb	97
109) Benzidine	10.668	184	146570	6.67	ppb	99
113) Hydroquinone	5.448	110	84042	3.79	ppb	91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1540\
Data File : 2p37015.D
Acq On : 29 May 2014 11:11 am
Operator : olgaa
Sample : ic1540-5
Misc : op75027,e2p1540,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 29 12:30:04 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 29 12:24:36 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1540\
 Data File : 2p37016.D
 Acq On : 29 May 2014 11:34 am
 Operator : olgaa
 Sample : ic1540-2
 Misc : op75027,e2p1540,
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 29 12:30:37 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Thu May 29 12:24:36 2014
 Response via : Initial Calibration

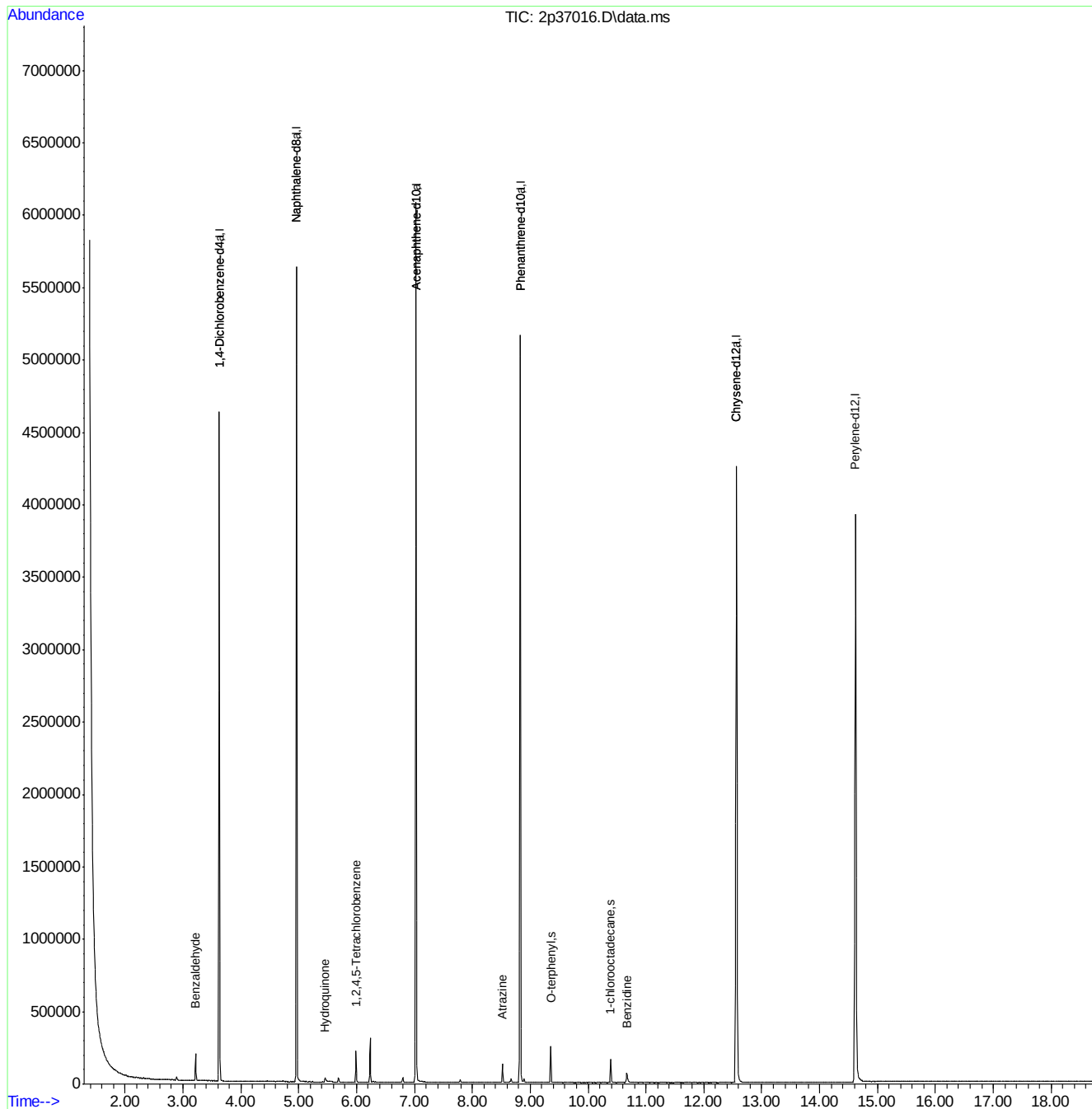
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.624	152	663055	40.00	ppb	0.00
24) Naphthalene-d8	4.961	136	2472442	40.00	ppb	0.00
47) Acenaphthene-d10	7.026	164	1286592	40.00	ppb	0.00
69) Phenanthrene-d10	8.828	188	1983243	40.00	ppb	0.00
83) Chrysene-d12	12.562	240	1748441	40.00	ppb	0.00
92) Perylene-d12	14.621	264	1573154	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	3.624	152	663055	40.00	ppb	0.00
104) Acenaphthene-d10a	7.026	164	1286592	40.00	ppb	0.00
107) Chrysene-d12a	12.562	240	1748441	40.00	ppb	0.00
110) Phenanthrene-d10a	8.828	188	1983243	40.00	ppb	0.00
112) Naphthalene-d8a	4.961	136	2472442	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount	50.000	Range	11 - 58	Recovery	=	0.00%#
8) Phenol-d5	0.000	99	0	0.00	ppb	
Spiked Amount	50.000	Range	10 - 59	Recovery	=	0.00%#
25) Nitrobenzene-d5	0.000	82	0	0.00	ppb	
Spiked Amount	50.000	Range	19 - 61	Recovery	=	0.00%#
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppb	
Spiked Amount	50.000	Range	21 - 58	Recovery	=	0.00%#
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount	50.000	Range	12 - 68	Recovery	=	0.00%#
85) Terphenyl-d14	0.000	244	0	0.00	ppb	
Spiked Amount	50.000	Range	16 - 65	Recovery	=	0.00%#
108) 1-chlorooctadecane	10.390	57	25222	1.73	ppb	-0.01
111) O-terphenyl	9.358	230	45968	1.90	ppb	-0.01
Target Compounds						
103) Benzaldehyde	3.218	105	35326	2.25	ppb	91
105) Atrazine	8.518	215	6123	1.20	ppb	90
106) 1,2,4,5-Tetrachloroben...	5.988	216	34364	1.90	ppb	96
109) Benzidine	10.668	184	41957	1.84	ppb	98
113) Hydroquinone	5.453	110	24798	1.09	ppb	88

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1540\
Data File : 2p37016.D
Acq On : 29 May 2014 11:34 am
Operator : olgaa
Sample : ic1540-2
Misc : op75027,e2p1540,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 29 12:30:37 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 29 12:24:36 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1540\
 Data File : 2p37017.D
 Acq On : 29 May 2014 11:57 am
 Operator : olgaa
 Sample : ic1540-1
 Misc : op75027,e2p1540,
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 29 12:32:00 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Thu May 29 12:24:36 2014
 Response via : Initial Calibration

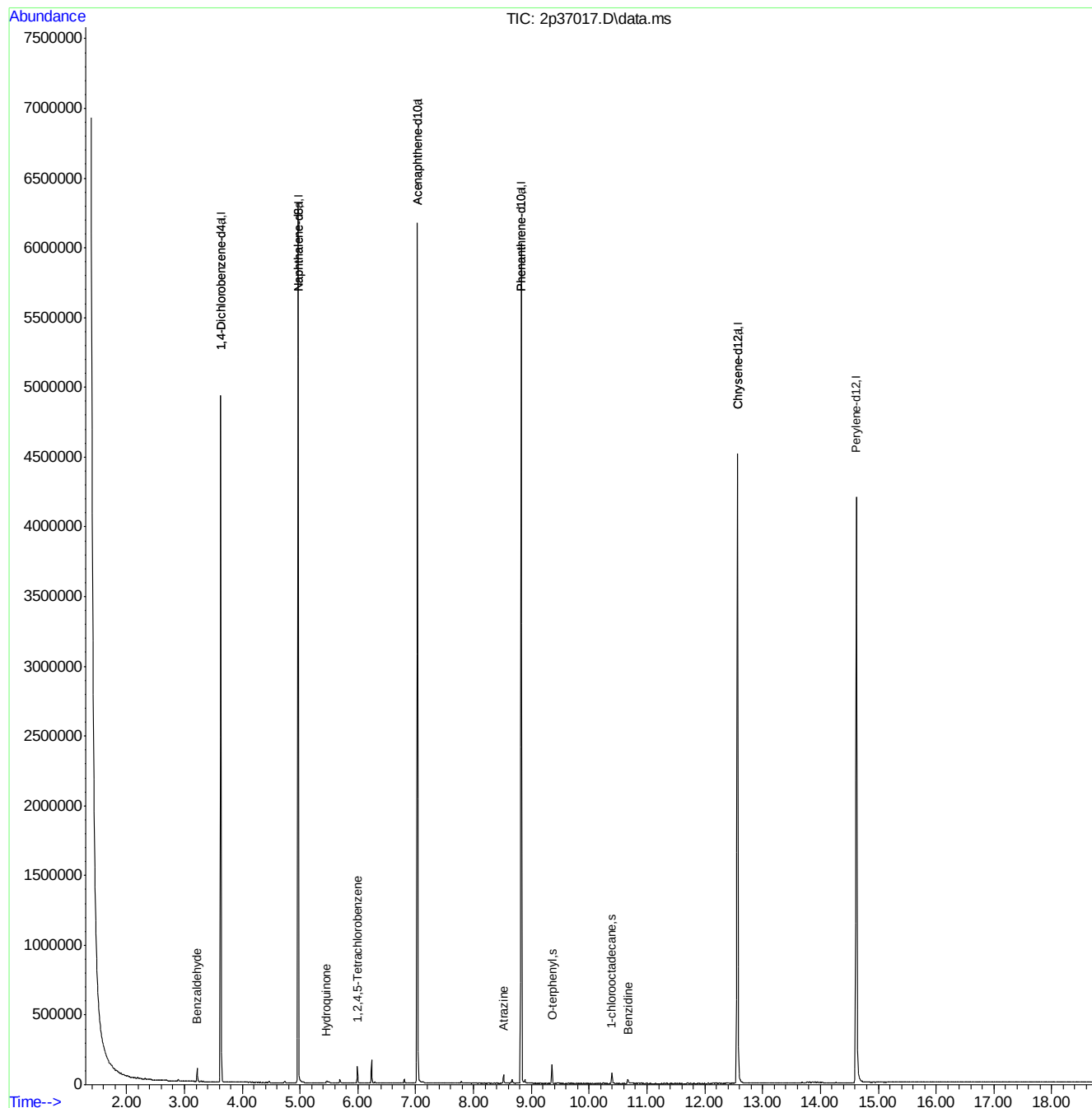
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.624	152	723255	40.00	ppb	0.00
24) Naphthalene-d8	4.967	136	2681579	40.00	ppb	0.00
47) Acenaphthene-d10	7.031	164	1407140	40.00	ppb	0.00
69) Phenanthrene-d10	8.828	188	2146254	40.00	ppb	0.00
83) Chrysene-d12	12.567	240	1876681	40.00	ppb	0.00
92) Perylene-d12	14.621	264	1708576	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	3.624	152	723255	40.00	ppb	0.00
104) Acenaphthene-d10a	7.031	164	1407140	40.00	ppb	0.00
107) Chrysene-d12a	12.567	240	1876681	40.00	ppb	0.00
110) Phenanthrene-d10a	8.828	188	2146254	40.00	ppb	0.00
112) Naphthalene-d8a	4.967	136	2681579	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount	50.000	Range	11 - 58	Recovery	=	0.00%#
8) Phenol-d5	0.000	99	0	0.00	ppb	
Spiked Amount	50.000	Range	10 - 59	Recovery	=	0.00%#
25) Nitrobenzene-d5	0.000	82	0	0.00	ppb	
Spiked Amount	50.000	Range	19 - 61	Recovery	=	0.00%#
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppb	
Spiked Amount	50.000	Range	21 - 58	Recovery	=	0.00%#
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount	50.000	Range	12 - 68	Recovery	=	0.00%#
85) Terphenyl-d14	0.000	244	0	0.00	ppb	
Spiked Amount	50.000	Range	16 - 65	Recovery	=	0.00%#
108) 1-chlorooctadecane	10.390	57	13025	0.83	ppb	-0.01
111) O-terphenyl	9.358	230	25275	0.97	ppb	-0.01
Target Compounds						
103) Benzaldehyde	3.223	105	19657	1.15	ppb	92
105) Atrazine	8.518	215	2790	0.50	ppb	89
106) 1,2,4,5-Tetrachloroben...	5.994	216	18633	0.94	ppb	93
109) Benzidine	10.668	184	18028	0.74	ppb	96
113) Hydroquinone	5.459	110	14042m	0.57	ppb	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1540\
Data File : 2p37017.D
Acq On : 29 May 2014 11:57 am
Operator : olgaa
Sample : ic1540-1
Misc : op75027,e2p1540,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 29 12:32:00 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 29 12:24:36 2014
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: E2P1540-IC1540

Method: SW846 8270D

Lab FileID: 2P37017.D

Analyst approved: 05/29/14 12:46 Olga Azarihn

Injection Time: 05/29/14 11:57

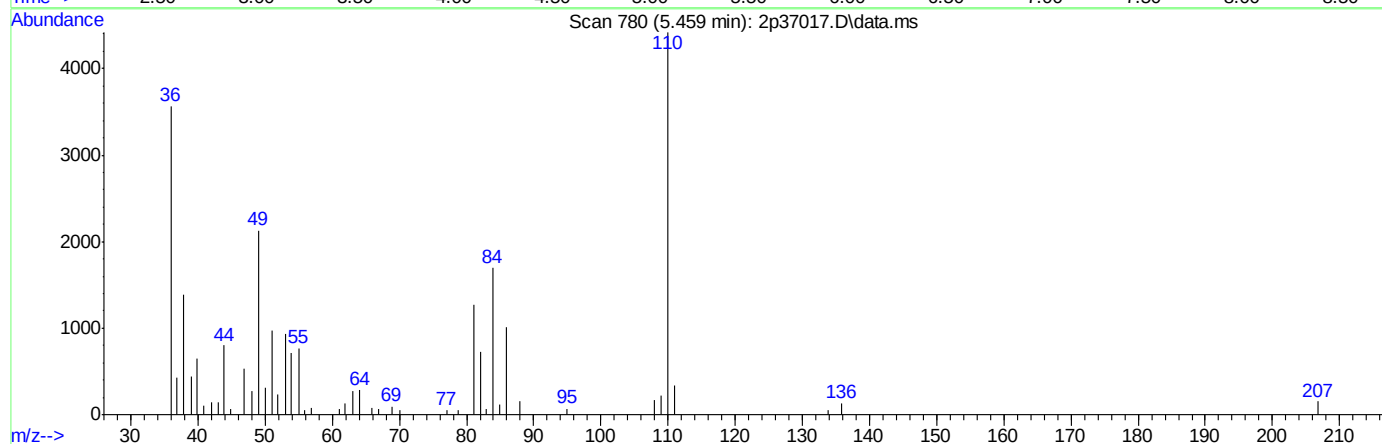
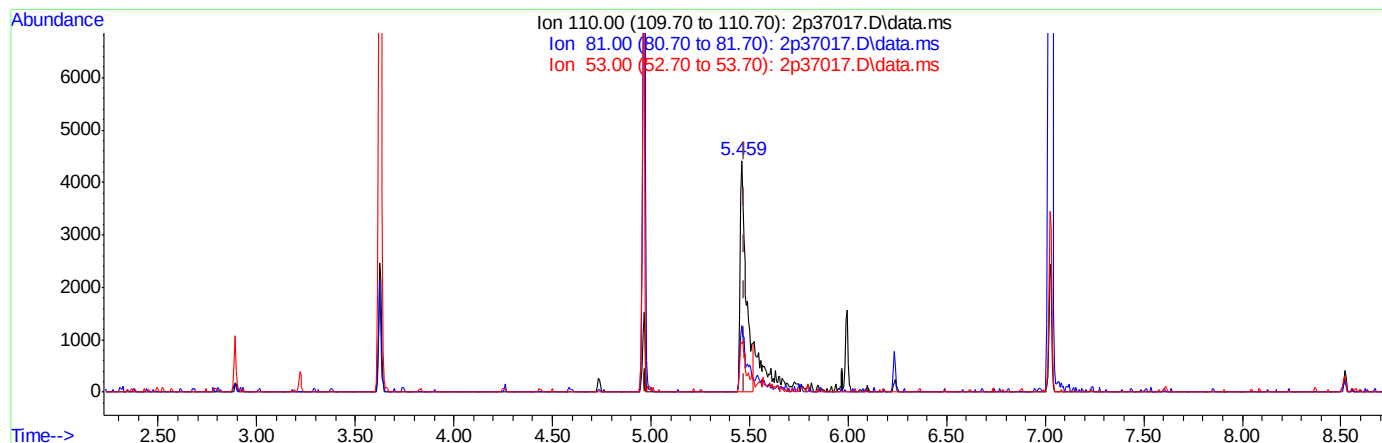
Supervisor approved: 05/30/14 13:06 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
Hydroquinone	123-31-9		5.46	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1540\
Data File : 2p37017.D
Acq On : 29 May 2014 11:57 am
Operator : olgaa
Sample : ic1540-1
Misc : op75027,e2p1540,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 29 12:31:01 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 29 12:24:36 2014
Response via : Initial Calibration



(113) Hydroquinone

5.459min (-0.016) 0.38ppb

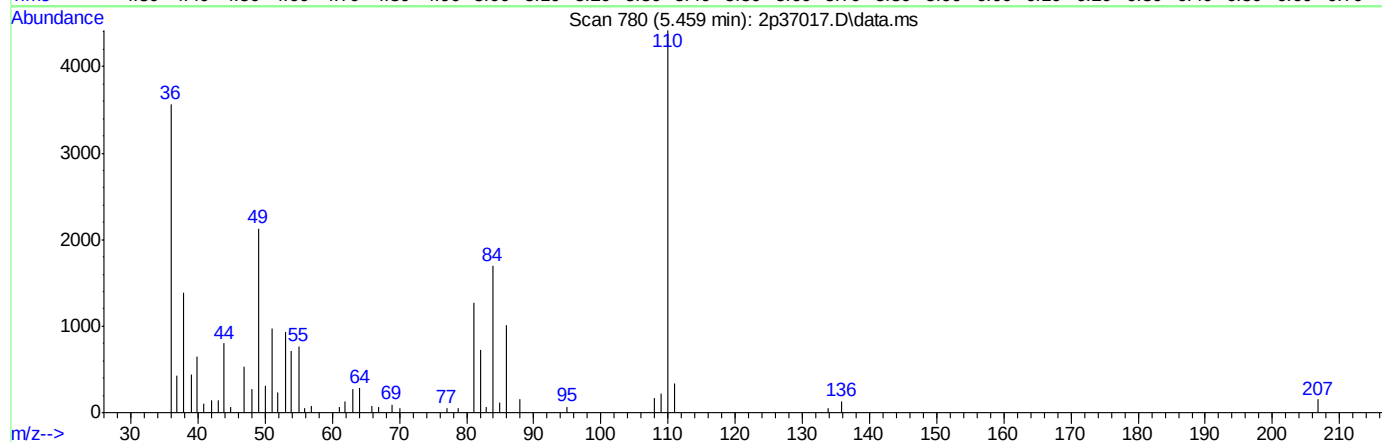
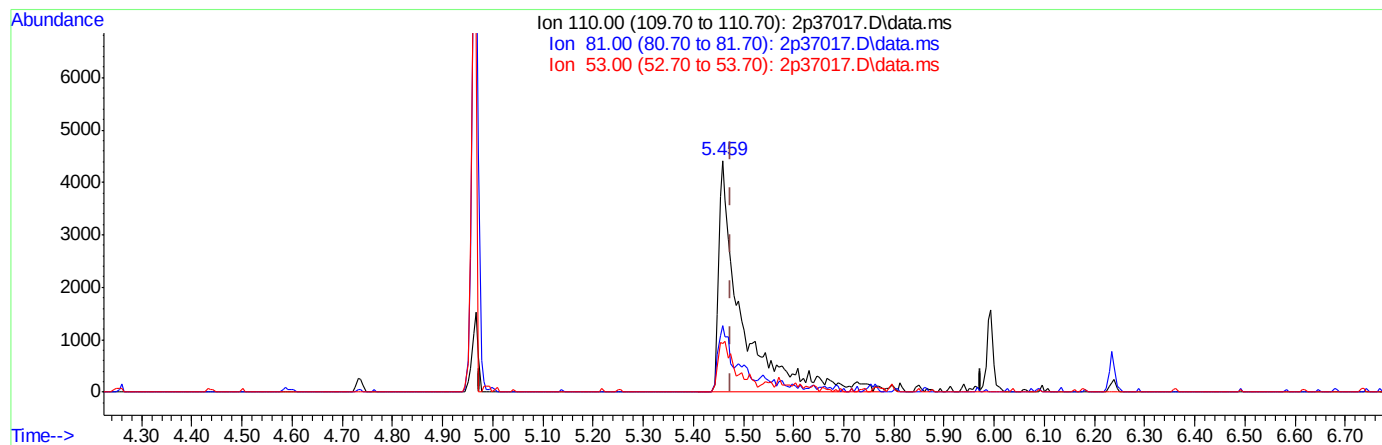
response 9388

Ion	Exp%	Act%
110.00	100	100
81.00	30.30	28.93
53.00	30.00	20.53
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1540\
Data File : 2p37017.D
Acq On : 29 May 2014 11:57 am
Operator : olgaa
Sample : ic1540-1
Misc : op75027,e2p1540,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 29 12:31:01 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 29 12:24:36 2014
Response via : Initial Calibration



(113) Hydroquinone

5.459min (-0.016) 0.57ppb m

response 14042

Ion	Exp%	Act%
110.00	100	100
81.00	30.30	28.65
53.00	30.00	21.07
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1540\
 Data File : 2p37018.D
 Acq On : 29 May 2014 12:30 pm
 Operator : olgaa
 Sample : icv1539-50
 Misc : op75027,e2p1540,
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 29 15:34:15 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Thu May 29 12:37:37 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.624	152	679686	40.00	ppb	0.00
24) Naphthalene-d8	4.961	136	2496377	40.00	ppb	0.00
47) Acenaphthene-d10	7.026	164	1258029	40.00	ppb	0.00
69) Phenanthrene-d10	8.828	188	1863494	40.00	ppb	0.00
83) Chrysene-d12	12.567	240	1600693	40.00	ppb	0.00
92) Perylene-d12	14.621	264	1424760	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	3.624	152	679686	40.00	ppb	0.00
104) Acenaphthene-d10a	7.026	164	1258029	40.00	ppb	0.00
107) Chrysene-d12a	12.567	240	1600693	40.00	ppb	0.00
110) Phenanthrene-d10a	8.828	188	1863494	40.00	ppb	0.00
112) Naphthalene-d8a	4.961	136	2496377	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	2.528	112	990106	42.59	ppb	0.00
Spiked Amount 50.000	Range 11 - 58		Recovery =	85.18%#		
8) Phenol-d5	3.266	99	1154898	41.11	ppb	0.00
Spiked Amount 50.000	Range 10 - 59		Recovery =	82.22%#		
25) Nitrobenzene-d5	4.175	82	978569	43.91	ppb	0.00
Spiked Amount 50.000	Range 19 - 61		Recovery =	87.82%#		
51) 2-Fluorobiphenyl	6.240	172	1856369	46.98	ppb	0.00
Spiked Amount 50.000	Range 21 - 58		Recovery =	93.96%#		
73) 2,4,6-Tribromophenol	7.978	330	156657	36.23	ppb	0.00
Spiked Amount 50.000	Range 12 - 68		Recovery =	72.46%#		
85) Terphenyl-d14	11.043	244	1549943	48.68	ppb	0.00
Spiked Amount 50.000	Range 16 - 65		Recovery =	97.36%#		
108) 1-chlorooctadecane	0.000	57	0	0.00	ppb	
111) O-terphenyl	0.000	230	0	0.00	ppb	

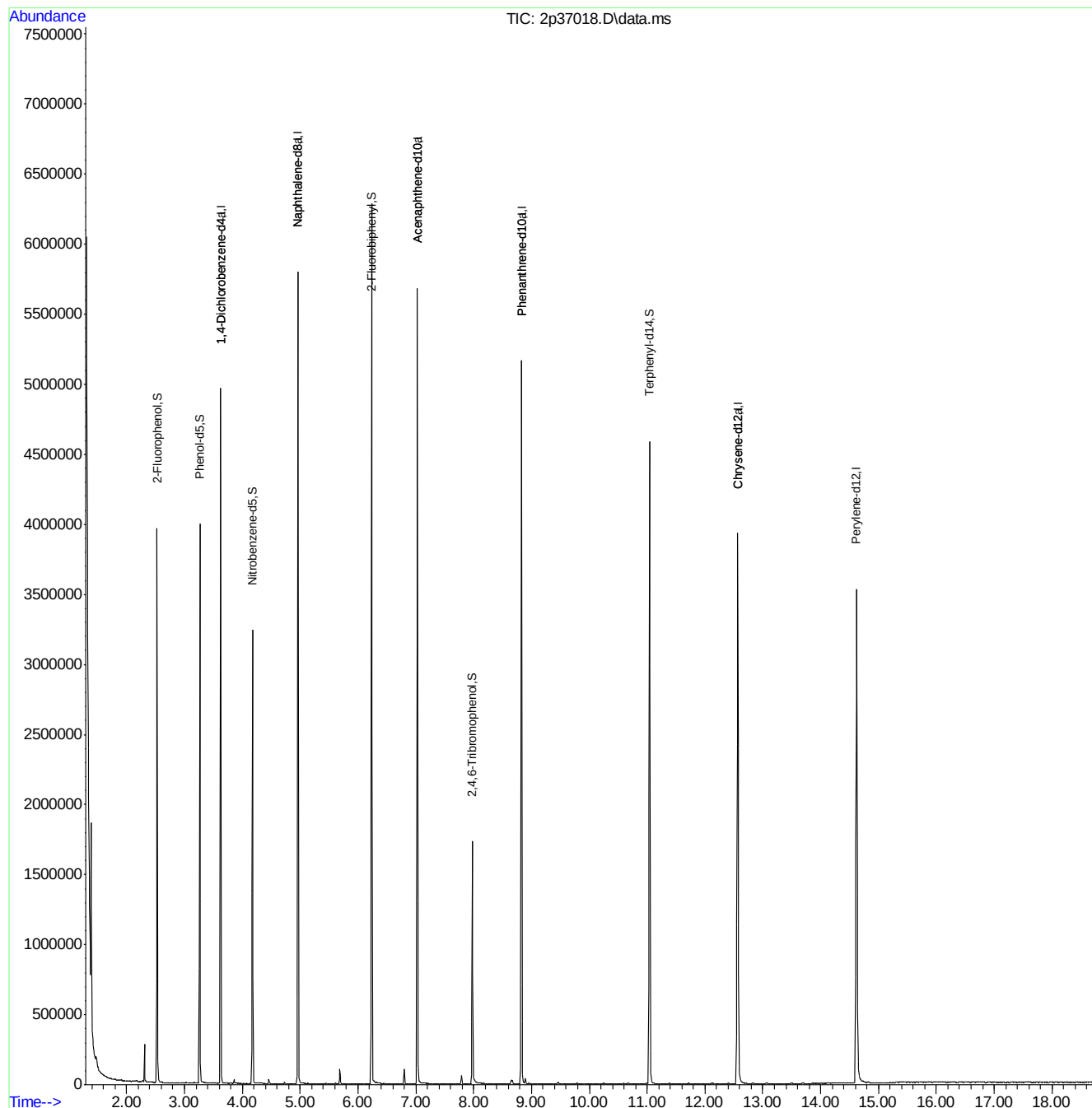
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1540\
Data File : 2p37018.D
Acq On : 29 May 2014 12:30 pm
Operator : olgaa
Sample : icv1539-50
Misc : op75027,e2p1540,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 29 15:34:15 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 29 12:37:37 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1540\
 Data File : 2p37019.D
 Acq On : 29 May 2014 12:53 pm
 Operator : olgaa
 Sample : icv1539-50
 Misc : op75027,e2p1540,
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 29 13:18:45 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Thu May 29 12:37:37 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.624	152	565396	40.00	ppb	0.00
24) Naphthalene-d8	4.961	136	2130247	40.00	ppb	0.00
47) Acenaphthene-d10	7.026	164	1095260	40.00	ppb	0.00
69) Phenanthrene-d10	8.828	188	1622261	40.00	ppb	0.00
83) Chrysene-d12	12.562	240	1477844	40.00	ppb	0.00
92) Perylene-d12	14.621	264	1275652	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	3.624	152	565396	40.00	ppb	0.00
104) Acenaphthene-d10a	7.026	164	1095260	40.00	ppb	0.00
107) Chrysene-d12a	12.562	240	1477844	40.00	ppb	0.00
110) Phenanthrene-d10a	8.828	188	1622261	40.00	ppb	0.00
112) Naphthalene-d8a	4.961	136	2130247	40.00	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount	50.000	Range	11 - 58	Recovery	=	0.00%#
8) Phenol-d5	0.000	99	0	0.00	ppb	
Spiked Amount	50.000	Range	10 - 59	Recovery	=	0.00%#
25) Nitrobenzene-d5	0.000	82	0	0.00	ppb	
Spiked Amount	50.000	Range	19 - 61	Recovery	=	0.00%#
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppb	
Spiked Amount	50.000	Range	21 - 58	Recovery	=	0.00%#
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount	50.000	Range	12 - 68	Recovery	=	0.00%#
85) Terphenyl-d14	0.000	244	0	0.00	ppb	
Spiked Amount	50.000	Range	16 - 65	Recovery	=	0.00%#
108) 1-chlorooctadecane	0.000	57	0	0.00	ppb	
111) O-terphenyl	0.000	230	0	0.00	ppb	

Target Compounds

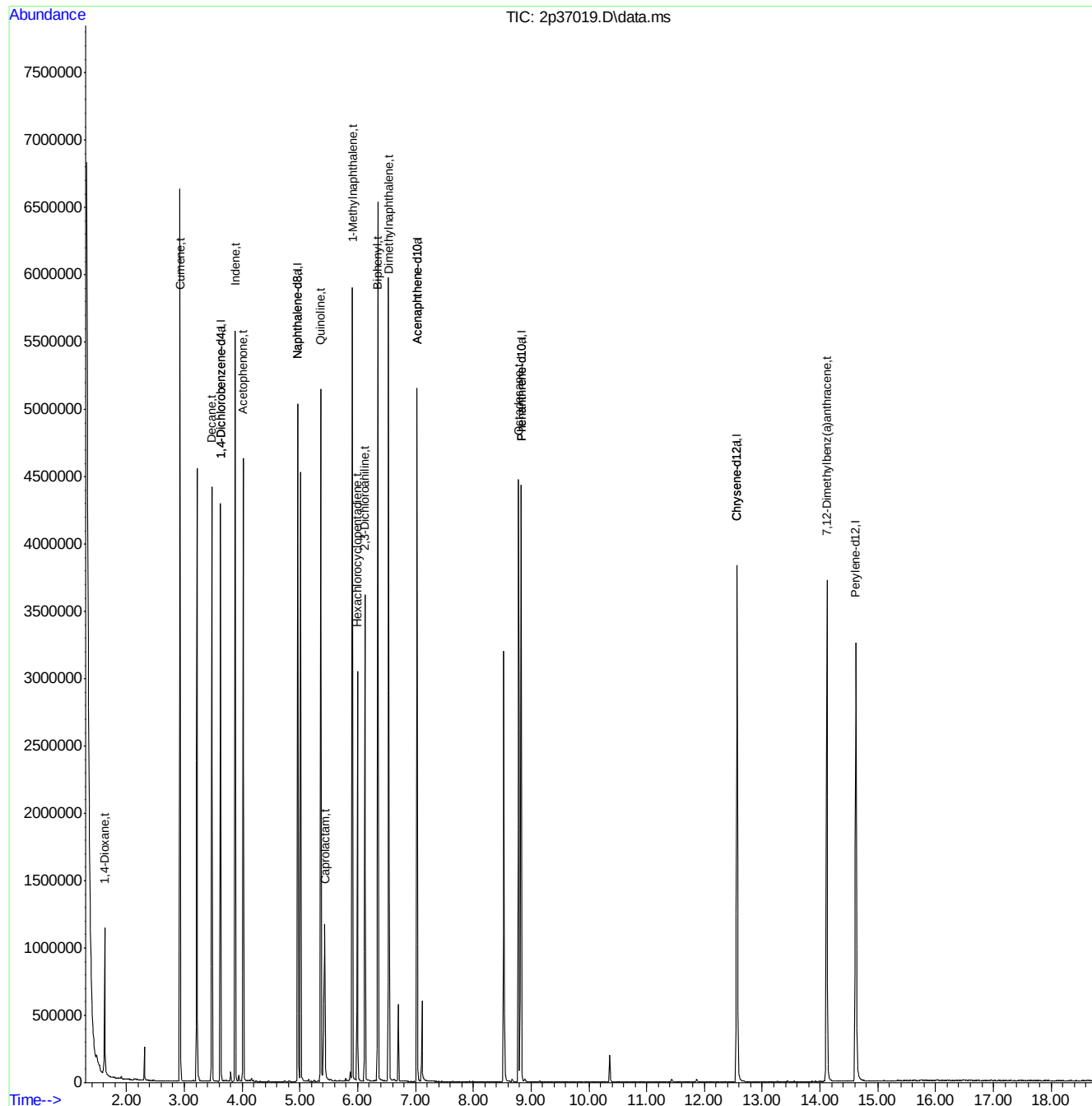
						Qvalue
2) 1,4-Dioxane	1.624	88	362042	43.04	ppb	96
6) Indene	3.881	116	1581074	42.51	ppb	99
7) Cumene	2.924	105	2175514	40.71	ppb	100
13) Decane	3.474	57	845942	39.11	ppb	99
18) Acetophenone	4.020	105	1216835	39.74	ppb	88
27) Quinoline	5.363	129	1760330	38.88	ppb	99
40) 2,3-Dichloroaniline	6.127	161	731503	32.79	ppb	98
41) Caprolactam	5.432	113	230721	36.14	ppb	96
45) 1-Methylnaphthalene	5.908	141	1445688	38.80	ppb	100
46) Dimethylnaphthalene	6.539	156	1394739	38.65	ppb	98
48) Hexachlorocyclopentadiene	5.994	237	344622	43.45	ppb	97
53) Biphenyl	6.352	154	1929084	40.38	ppb	99
82) Octadecane	8.786	43	602167	40.39	ppb	99
100) 7,12-Dimethylbenz(a)an...	14.118	256	847201	39.78	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1540\
Data File : 2p37019.D
Acq On : 29 May 2014 12:53 pm
Operator : olgaa
Sample : icv1539-50
Misc : op75027,e2p1540,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 29 13:18:45 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 29 12:37:37 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1540\
 Data File : 2p37019a.D
 Acq On : 29 May 2014 12:53 pm
 Operator : olgaa
 Sample : icv1540-50
 Misc : op75027,e2p1540,
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 29 16:58:07 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Thu May 29 16:56:51 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.624	152	565396	40.00	ppb	0.00
24) Naphthalene-d8	4.961	136	2130247	40.00	ppb	0.00
47) Acenaphthene-d10	7.026	164	1095260	40.00	ppb	0.00
69) Phenanthrene-d10	8.828	188	1622261	40.00	ppb	0.00
83) Chrysene-d12	12.562	240	1477844	40.00	ppb	-0.02
92) Perylene-d12	14.621	264	1275652	40.00	ppb	-0.01
102) 1,4-Dichlorobenzene-d4a	3.624	152	565396	40.00	ppb	0.00
104) Acenaphthene-d10a	7.026	164	1095260	40.00	ppb	0.00
107) Chrysene-d12a	12.562	240	1477844	40.00	ppb	-0.02
110) Phenanthrene-d10a	8.828	188	1622261	40.00	ppb	0.00
112) Naphthalene-d8a	4.961	136	2130247	40.00	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount	50.000	Range	11 - 58	Recovery	=	0.00%#
8) Phenol-d5	0.000	99	0	0.00	ppb	
Spiked Amount	50.000	Range	10 - 59	Recovery	=	0.00%#
25) Nitrobenzene-d5	0.000	82	0	0.00	ppb	
Spiked Amount	50.000	Range	19 - 61	Recovery	=	0.00%#
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppb	
Spiked Amount	50.000	Range	21 - 58	Recovery	=	0.00%#
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount	50.000	Range	12 - 68	Recovery	=	0.00%#
85) Terphenyl-d14	0.000	244	0	0.00	ppb	
Spiked Amount	50.000	Range	16 - 65	Recovery	=	0.00%#
108) 1-chlorooctadecane	0.000	57	0	0.00	ppb	
111) O-terphenyl	0.000	230	0	0.00	ppb	

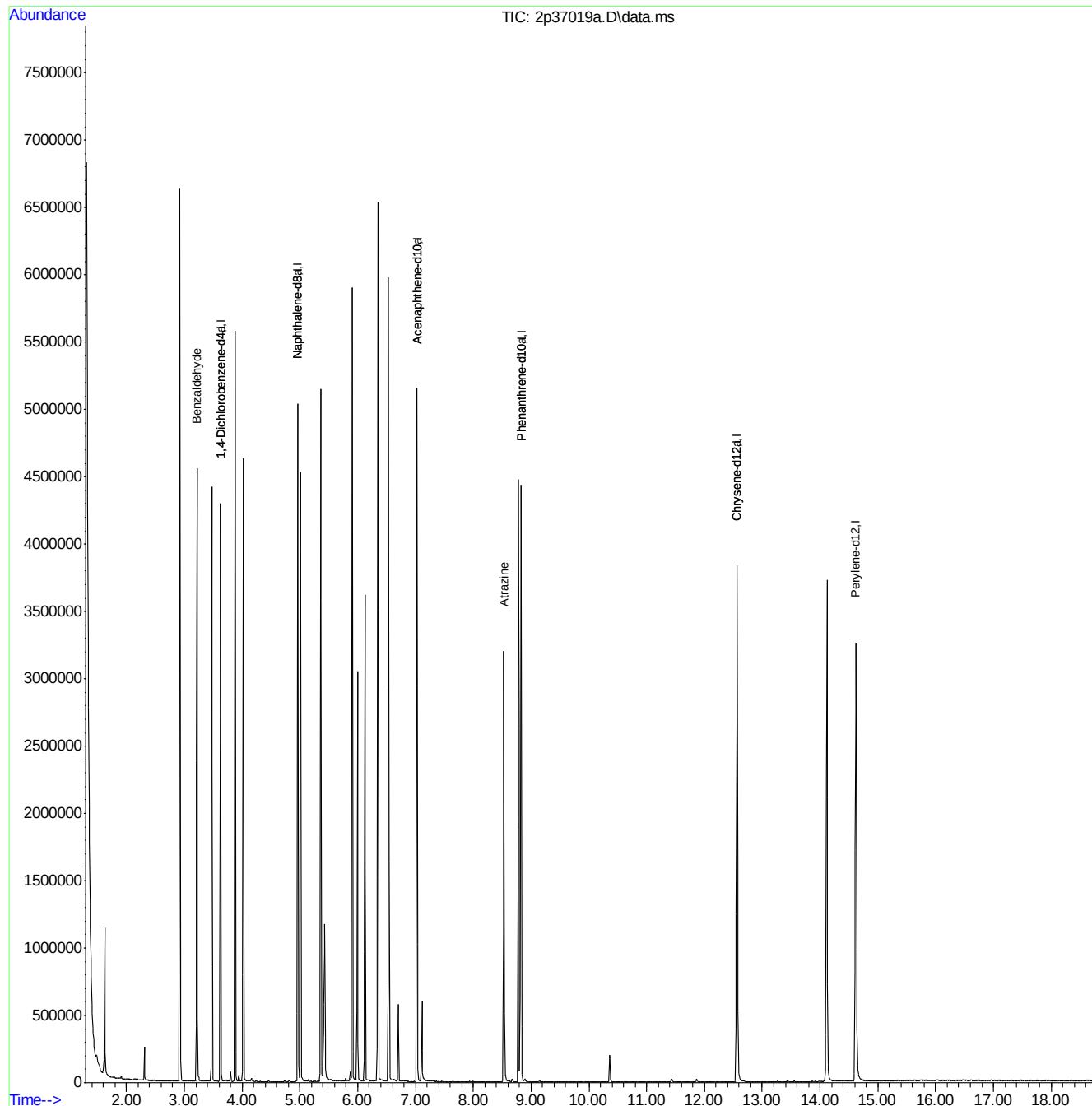
Target Compounds						Qvalue
103) Benzaldehyde	3.218	105	761856	50.79	ppb	99
105) Atrazine	8.529	215	184042	48.40	ppb	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1540\
Data File : 2p37019a.D
Acq On : 29 May 2014 12:53 pm
Operator : olgaa
Sample : icv1540-50
Misc : op75027,e2p1540,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 29 16:58:07 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 29 16:56:51 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1540\
 Data File : 2p37020.D
 Acq On : 29 May 2014 1:24 pm
 Operator : olgaa
 Sample : icv1539-50
 Misc : op75027,e2p1540,
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 29 16:47:35 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Thu May 29 16:41:03 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.624	152	621592	40.00	ppb	0.00
24) Naphthalene-d8	4.967	136	2232793	40.00	ppb	0.00
47) Acenaphthene-d10	7.031	164	1150844	40.00	ppb	0.00
69) Phenanthrene-d10	8.829	188	1820394	40.00	ppb	0.00
83) Chrysene-d12	12.573	240	1571194	40.00	ppb	0.00
92) Perylene-d12	14.626	264	1390528	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	3.624	152	621592	40.00	ppb	0.00
104) Acenaphthene-d10a	7.031	164	1150844	40.00	ppb	0.00
107) Chrysene-d12a	12.573	240	1571194	40.00	ppb	0.00
110) Phenanthrene-d10a	8.829	188	1820394	40.00	ppb	0.00
112) Naphthalene-d8a	4.967	136	2232793	40.00	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol	0.000	112	0d	0.00	ppb	
Spiked Amount	50.000	Range	11 - 58	Recovery	=	0.00%#
8) Phenol-d5	0.000	99	0	0.00	ppb	
Spiked Amount	50.000	Range	10 - 59	Recovery	=	0.00%#
25) Nitrobenzene-d5	0.000	82	0d	0.00	ppb	
Spiked Amount	50.000	Range	19 - 61	Recovery	=	0.00%#
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppb	
Spiked Amount	50.000	Range	21 - 58	Recovery	=	0.00%#
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount	50.000	Range	12 - 68	Recovery	=	0.00%#
85) Terphenyl-d14	0.000	244	0	0.00	ppb	
Spiked Amount	50.000	Range	16 - 65	Recovery	=	0.00%#
108) 1-chlorooctadecane	0.000	57	0	0.00	ppb	
111) 0-terphenyl	0.000	230	0	0.00	ppb	

Target Compounds

Qvalue

3) Pyridine	1.779	79	950584	39.79	ppb	98
4) N-Nitrosodimethylamine	1.752	74	525922	44.02	ppb	99
11) bis(2-Chloroethyl)ether	3.362	93	904991	47.14	ppb	100
14) 1,3-Dichlorobenzene	3.571	146	1145296	45.07	ppb	100
15) 1,4-Dichlorobenzene	3.640	146	1116338	44.34	ppb	98
16) Benzyl alcohol	3.753	108	616854	43.91	ppb	96
17) 1,2-Dichlorobenzene	3.790	146	1041267	44.05	ppb	99
20) 2,2'-oxybis(1-Chloropr...	3.892	121	280175	45.80	ppb	# 90
22) n-Nitroso-di-n-propyla...	4.025	70	608088	48.06	ppb	99
23) Hexachloroethane	4.138	201	341457	43.63	ppb	92
26) Nitrobenzene	4.197	77	905199	44.13	ppb	99
28) Isophorone	4.453	82	1522124	43.44	ppb	99
32) bis(2-Chloroethoxy)met...	4.705	93	1055371	48.58	ppb	100
36) 1,2,4-Trichlorobenzene	4.908	180	825407	45.67	ppb	98
38) Naphthalene	4.988	128	2642277	44.33	ppb	100
42) Hexachlorobutadiene	5.149	225	403939	45.90	ppb	99
44) 2-Methylnaphthalene	5.790	141	1570119	45.41	ppb	98
52) 2-Chloronaphthalene	6.363	162	1614879	47.32	ppb	99
54) 2-Nitroaniline	6.497	65	441416	44.88	ppb	97
55) Dimethylphthalate	6.743	163	1713981	45.90	ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1540\
 Data File : 2p37020.D
 Acq On : 29 May 2014 1:24 pm
 Operator : olgaa
 Sample : icv1539-50
 Misc : op75027,e2p1540,
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 29 16:47:35 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Thu May 29 16:41:03 2014
 Response via : Initial Calibration

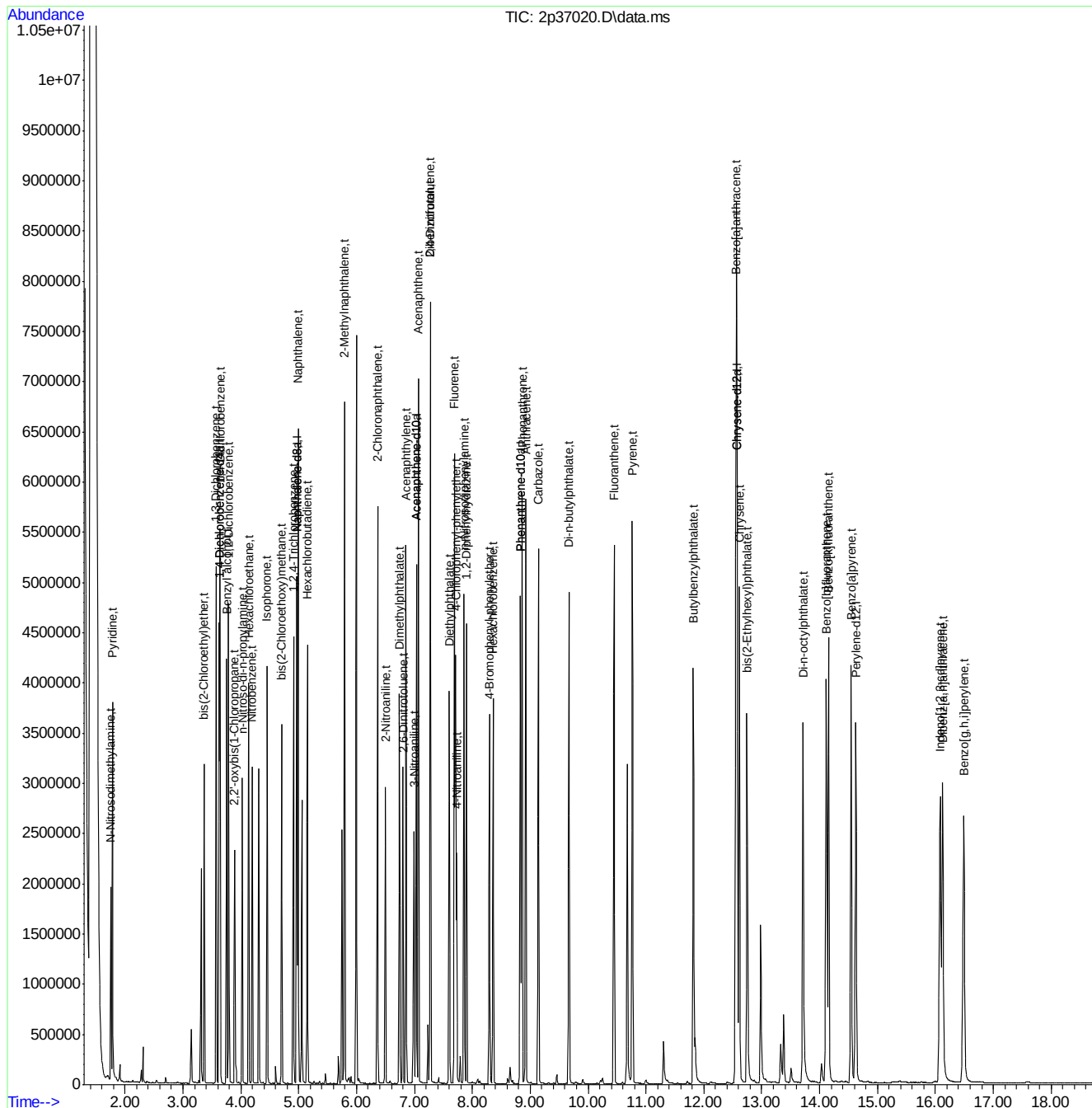
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
56) Acenaphthylene	6.855	152	2186083	38.93	ppb	100
57) 2,6-Dinitrotoluene	6.801	165	353995	44.57	ppb	90
58) 3-Nitroaniline	6.994	138	423172	39.58	ppb	98
59) Acenaphthene	7.069	153	1623983	46.41	ppb	97
62) Dibenzofuran	7.277	168	2108461	45.49	ppb	99
63) 2,4-Dinitrotoluene	7.277	165	453647	43.38	ppb	99
65) Diethylphthalate	7.598	149	1794534	46.08	ppb	99
66) Fluorene	7.689	166	1762254	46.91	ppb	99
67) 4-Chlorophenyl-phenyle...	7.711	204	722496	46.99	ppb	95
68) 4-Nitroaniline	7.732	138	453179	43.48	ppb	97
71) n-Nitrosodiphenylamine	7.855	169	1160682	45.90	ppb	99
72) 1,2-Diphenylhydrazine	7.898	77	1730478	43.74	ppb	99
74) 4-Bromophenyl-phenylether	8.299	248	414781	46.48	ppb	94
75) Hexachlorobenzene	8.363	284	457844	43.61	ppb	96
77) Phenanthrene	8.861	178	2364042	44.62	ppb	99
78) Anthracene	8.925	178	2371388	45.48	ppb	99
79) Carbazole	9.144	167	2364968	38.91	ppb	100
80) Di-n-butylphthalate	9.668	149	3000282	45.57	ppb	99
81) Fluoranthene	10.449	202	2485226	44.48	ppb	99
84) Pyrene	10.765	202	2525047	46.07	ppb	99
86) Butylbenzylphthalate	11.818	149	1295097	50.40	ppb	98
88) Benzo[a]anthracene	12.557	228	2097431	45.15	ppb	99
90) Chrysene	12.610	228	1937908	47.86	ppb	99
91) bis(2-Ethylhexyl)phtha...	12.749	149	1687119	49.05	ppb	99
93) Di-n-octylphthalate	13.712	149	2965028	42.19	ppb	99
94) Benzo[b]fluoranthene	14.113	252	2006139	44.38	ppb	98
95) Benzo[k]fluoranthene	14.156	252	1983363	48.07	ppb	98
96) Benzo[a]pyrene	14.546	252	1854086	48.41	ppb	97
97) Indeno[1,2,3-cd]pyrene	16.081	276	2194408m	47.90	ppb	
99) Dibenz[a,h]anthracene	16.129	278	1757817	48.08	ppb	100
101) Benzo[g,h,i]perylene	16.498	276	1834053	49.16	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1540\
Data File : 2p37020.D
Acq On : 29 May 2014 1:24 pm
Operator : olgaa
Sample : icv1539-50
Misc : op75027,e2p1540,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 29 16:47:35 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 29 16:41:03 2014
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: E2P1540-ICV1539

Method: SW846 8270D

Lab FileID: 2P37020.D

Analyst approved: 05/29/14 17:05 Olga Azarihn

Injection Time: 05/29/14 13:24

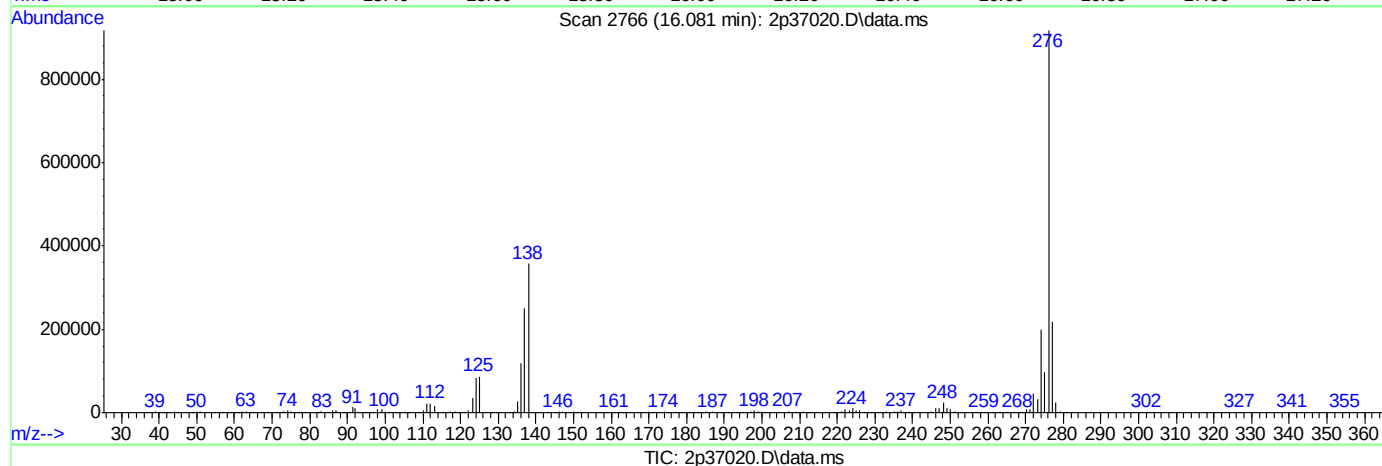
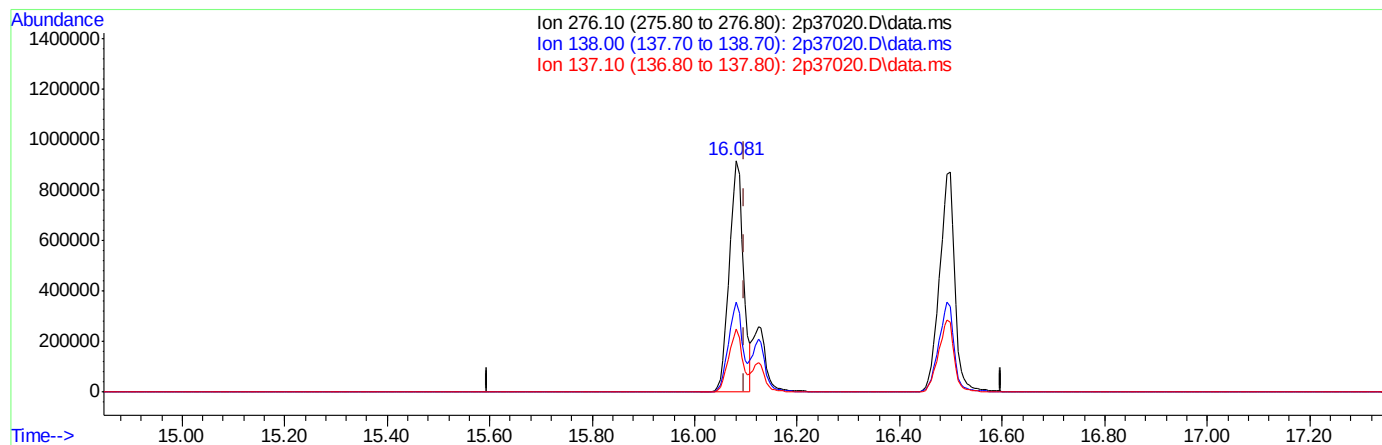
Supervisor approved: 05/30/14 13:06 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
Indeno(1,2,3-cd)pyrene	193-39-5		16.08	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1540\
Data File : 2p37020.D
Acq On : 29 May 2014 1:24 pm
Operator : olgaa
Sample : icv1539-50
Misc : op75027,e2p1540,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 29 16:41:29 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 29 16:41:03 2014
Response via : Initial Calibration



(97) Indeno[1,2,3-cd]pyrene (t)

16.081min (-0.016) 37.95ppb

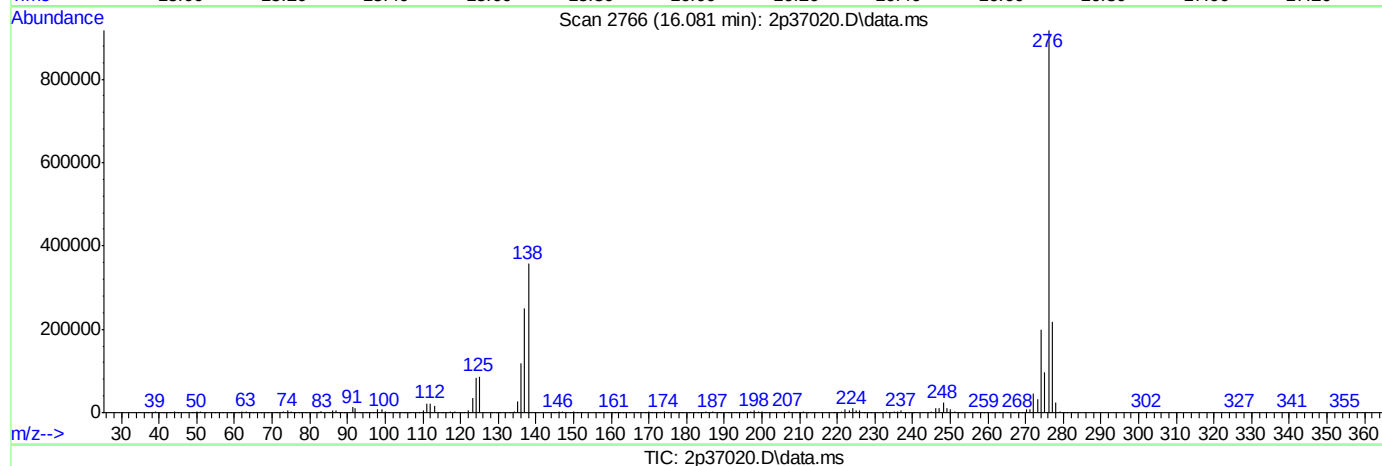
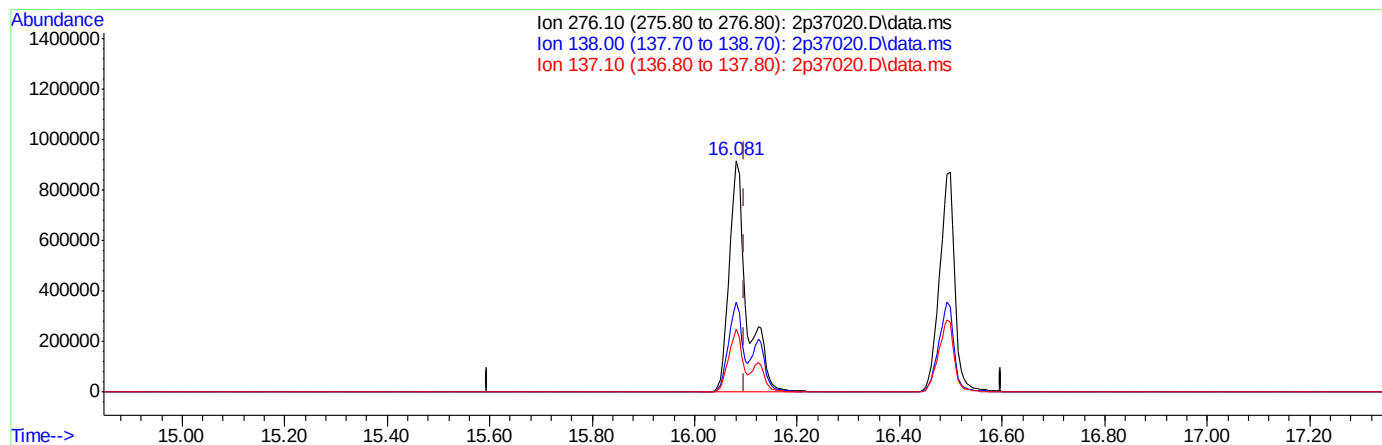
response 1738686

Ion	Exp%	Act%
276.10	100	100
138.00	37.50	35.82
137.10	25.90	25.92
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1540\
Data File : 2p37020.D
Acq On : 29 May 2014 1:24 pm
Operator : olgaa
Sample : icv1539-50
Misc : op75027,e2p1540,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 29 16:41:29 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 29 16:41:03 2014
Response via : Initial Calibration



(97) Indeno[1,2,3-cd]pyrene (t)

16.081min (-0.016) 47.90ppb m

response 2194408

Ion	Exp%	Act%
276.10	100	100
138.00	37.50	38.87
137.10	25.90	27.25
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1540\
 Data File : 2p37020a.D
 Acq On : 29 May 2014 1:24 pm
 Operator : olgaa
 Sample : icv1540-50
 Misc : op75027,e2p1540,
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 29 16:59:48 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Thu May 29 16:56:51 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.624	152	621592	40.00	ppb	0.00
24) Naphthalene-d8	4.967	136	2232793	40.00	ppb	0.00
47) Acenaphthene-d10	7.031	164	1150844	40.00	ppb	0.00
69) Phenanthrene-d10	8.829	188	1820394	40.00	ppb	0.00
83) Chrysene-d12	12.573	240	1571194	40.00	ppb	0.00
92) Perylene-d12	14.626	264	1390528	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	3.624	152	621592	40.00	ppb	0.00
104) Acenaphthene-d10a	7.031	164	1150844	40.00	ppb	0.00
107) Chrysene-d12a	12.573	240	1571194	40.00	ppb	0.00
110) Phenanthrene-d10a	8.829	188	1820394	40.00	ppb	0.00
112) Naphthalene-d8a	4.967	136	2232793	40.00	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol	0.000	112	0d	0.00	ppb	
Spiked Amount	50.000	Range 11 - 58	Recovery	=	0.00%#	
8) Phenol-d5	0.000	99	0	0.00	ppb	
Spiked Amount	50.000	Range 10 - 59	Recovery	=	0.00%#	
25) Nitrobenzene-d5	0.000	82	0d	0.00	ppb	
Spiked Amount	50.000	Range 19 - 61	Recovery	=	0.00%#	
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppb	
Spiked Amount	50.000	Range 21 - 58	Recovery	=	0.00%#	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount	50.000	Range 12 - 68	Recovery	=	0.00%#	
85) Terphenyl-d14	0.000	244	0	0.00	ppb	
Spiked Amount	50.000	Range 16 - 65	Recovery	=	0.00%#	
108) 1-chlorooctadecane	0.000	57	0	0.00	ppb	
111) O-terphenyl	0.000	230	0	0.00	ppb	

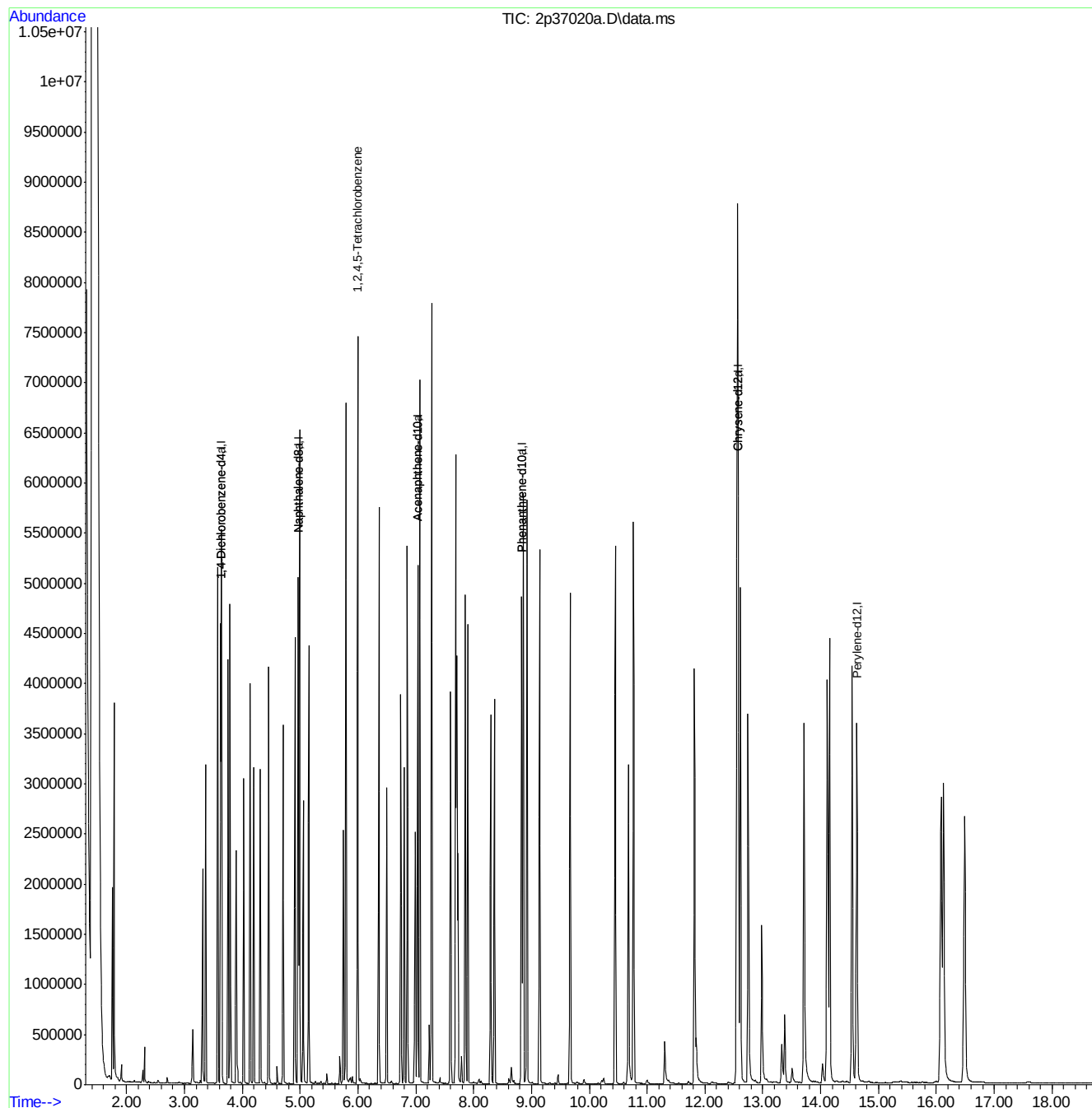
Target Compounds						Qvalue
106) 1,2,4,5-Tetrachloroben...	5.994	216	823880	51.99	ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1540\
Data File : 2p37020a.D
Acq On : 29 May 2014 1:24 pm
Operator : olgaa
Sample : icv1540-50
Misc : op75027,e2p1540,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 29 16:59:48 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 29 16:56:51 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1540\
 Data File : 2p37022.D
 Acq On : 29 May 2014 2:43 pm
 Operator : olgaa
 Sample : icv1539-50
 Misc : op75027,e2p1540,
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 29 16:49:54 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Thu May 29 12:37:37 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.624	152	759959	40.00	ppb	0.00
24) Naphthalene-d8	4.967	136	2862323	40.00	ppb	0.00
47) Acenaphthene-d10	7.031	164	1484873	40.00	ppb	0.00
69) Phenanthrene-d10	8.829	188	2393913	40.00	ppb	0.00
83) Chrysene-d12	12.567	240	2210147	40.00	ppb	0.00
92) Perylene-d12	14.626	264	1956730	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	3.624	152	759959	40.00	ppb	0.00
104) Acenaphthene-d10a	7.031	164	1484873	40.00	ppb	0.00
107) Chrysene-d12a	12.567	240	2210147	40.00	ppb	0.00
110) Phenanthrene-d10a	8.829	188	2393913	40.00	ppb	0.00
112) Naphthalene-d8a	4.967	136	2862323	40.00	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount	50.000	Range	11 - 58	Recovery	=	0.00%#
8) Phenol-d5	0.000	99	0	0.00	ppb	
Spiked Amount	50.000	Range	10 - 59	Recovery	=	0.00%#
25) Nitrobenzene-d5	0.000	82	0	0.00	ppb	
Spiked Amount	50.000	Range	19 - 61	Recovery	=	0.00%#
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppb	
Spiked Amount	50.000	Range	21 - 58	Recovery	=	0.00%#
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount	50.000	Range	12 - 68	Recovery	=	0.00%#
85) Terphenyl-d14	0.000	244	0	0.00	ppb	
Spiked Amount	50.000	Range	16 - 65	Recovery	=	0.00%#
108) 1-chlorooctadecane	0.000	57	0	0.00	ppb	
111) O-terphenyl	0.000	230	0	0.00	ppb	

Target Compounds

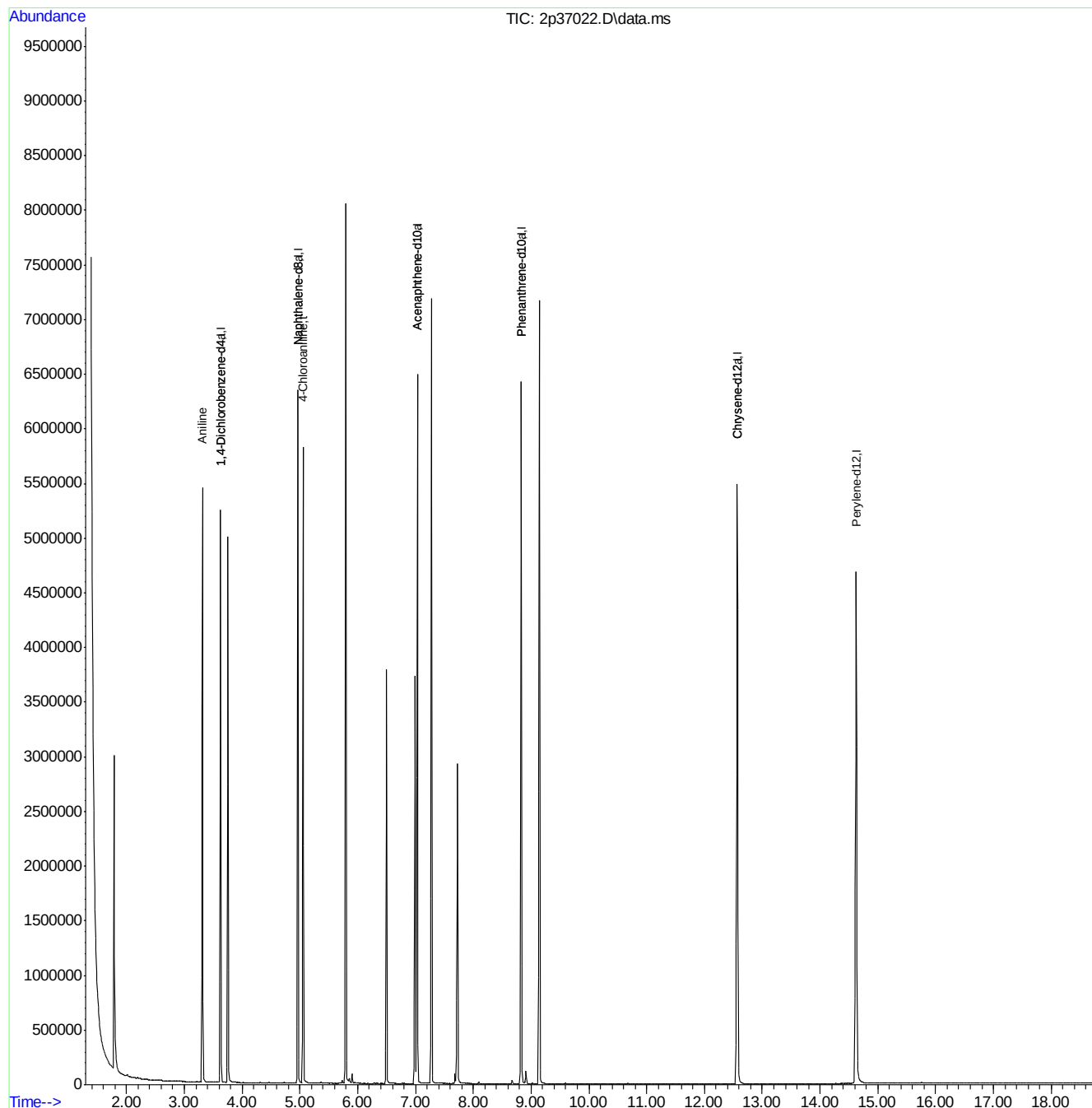
						Qvalue
10) Aniline	3.314	93	1915907	53.37	ppb	99
39) 4-Chloroaniline	5.058	127	1637593	49.34	ppb	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1540\
Data File : 2p37022.D
Acq On : 29 May 2014 2:43 pm
Operator : olgaa
Sample : icv1539-50
Misc : op75027,e2p1540,
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 29 16:49:54 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 29 12:37:37 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1540\
 Data File : 2p37023.D
 Acq On : 29 May 2014 3:06 pm
 Operator : olgaa
 Sample : icv1539-50
 Misc : op75027,e2p1540,
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 29 16:51:13 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Thu May 29 16:41:03 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.630	152	1106081	40.00	ppb	0.00
24) Naphthalene-d8	4.967	136	4039692	40.00	ppb	0.00
47) Acenaphthene-d10	7.031	164	2148701	40.00	ppb	0.00
69) Phenanthrene-d10	8.828	188	3365257	40.00	ppb	0.00
83) Chrysene-d12	12.572	240	3112227	40.00	ppb	0.00
92) Perylene-d12	14.626	264	2932338	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	3.630	152	1106081	40.00	ppb	0.00
104) Acenaphthene-d10a	7.031	164	2148701	40.00	ppb	0.00
107) Chrysene-d12a	12.572	240	3112227	40.00	ppb	0.00
110) Phenanthrene-d10a	8.828	188	3365257	40.00	ppb	0.00
112) Naphthalene-d8a	4.967	136	4039692	40.00	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount	50.000	Range	11 - 58	Recovery	=	0.00%#
8) Phenol-d5	0.000	99	0	0.00	ppb	
Spiked Amount	50.000	Range	10 - 59	Recovery	=	0.00%#
25) Nitrobenzene-d5	0.000	82	0	0.00	ppb	
Spiked Amount	50.000	Range	19 - 61	Recovery	=	0.00%#
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppb	
Spiked Amount	50.000	Range	21 - 58	Recovery	=	0.00%#
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount	50.000	Range	12 - 68	Recovery	=	0.00%#
85) Terphenyl-d14	0.000	244	0	0.00	ppb	
Spiked Amount	50.000	Range	16 - 65	Recovery	=	0.00%#
108) 1-chlorooctadecane	0.000	57	0	0.00	ppb	
111) O-terphenyl	0.000	230	0	0.00	ppb	

Target Compounds

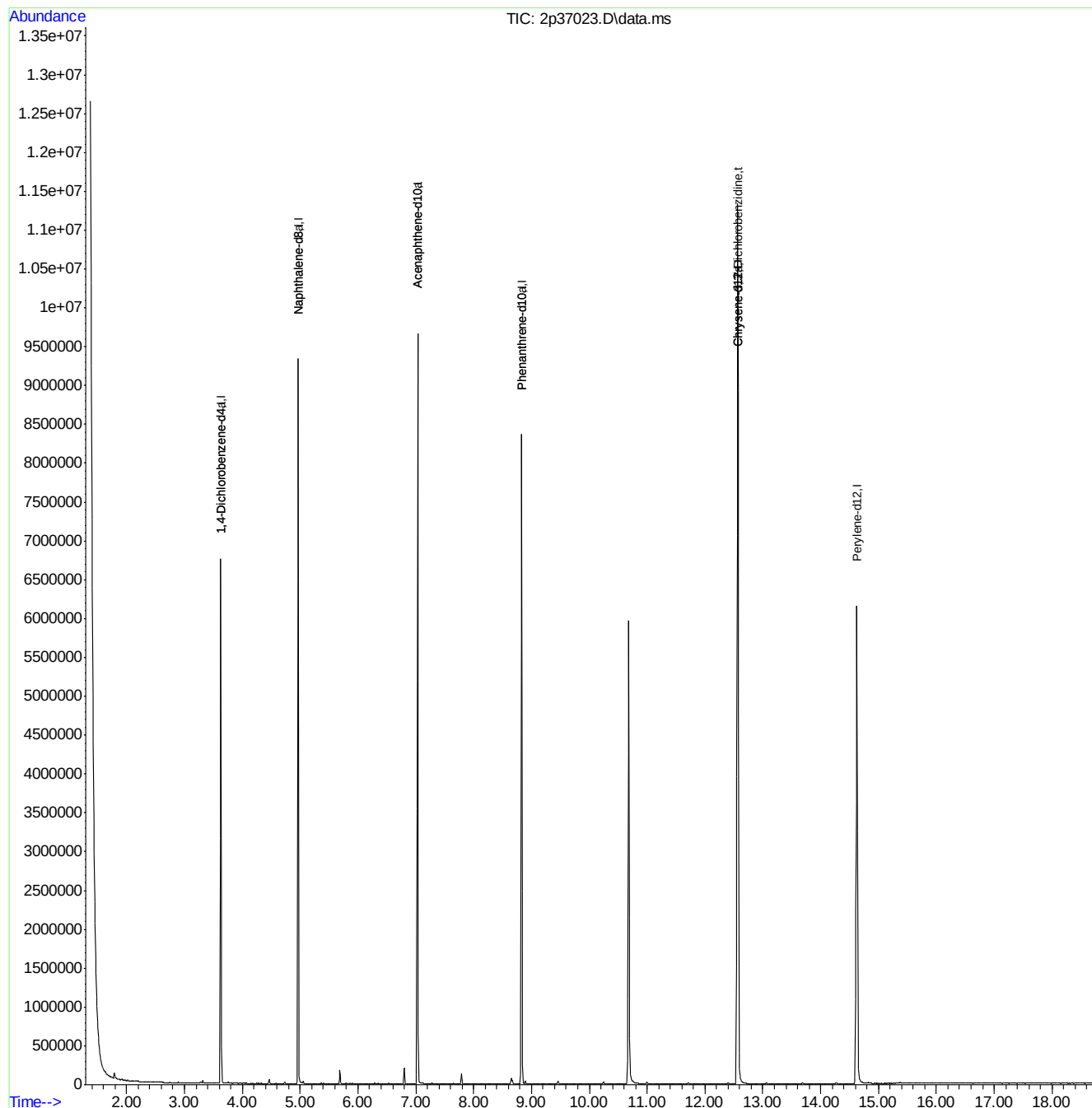
						Qvalue
89) 3,3'-Dichlorobenzidine	12.567	252	1451053	48.90	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1540\
Data File : 2p37023.D
Acq On : 29 May 2014 3:06 pm
Operator : olgaa
Sample : icv1539-50
Misc : op75027,e2p1540,
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 29 16:51:13 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 29 16:41:03 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1540\
 Data File : 2p37023a.D
 Acq On : 29 May 2014 3:06 pm
 Operator : olgaa
 Sample : icv1540-50
 Misc : op75027,e2p1540,
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 29 17:01:58 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Thu May 29 16:56:51 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.630	152	1106081	40.00	ppb	0.00
24) Naphthalene-d8	4.967	136	4039692	40.00	ppb	0.00
47) Acenaphthene-d10	7.031	164	2148701	40.00	ppb	0.00
69) Phenanthrene-d10	8.828	188	3365257	40.00	ppb	0.00
83) Chrysene-d12	12.572	240	3112227	40.00	ppb	0.00
92) Perylene-d12	14.626	264	2932338	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	3.630	152	1106081	40.00	ppb	0.00
104) Acenaphthene-d10a	7.031	164	2148701	40.00	ppb	0.00
107) Chrysene-d12a	12.572	240	3112227	40.00	ppb	0.00
110) Phenanthrene-d10a	8.828	188	3365257	40.00	ppb	0.00
112) Naphthalene-d8a	4.967	136	4039692	40.00	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount	50.000	Range	11 - 58	Recovery	=	0.00%#
8) Phenol-d5	0.000	99	0	0.00	ppb	
Spiked Amount	50.000	Range	10 - 59	Recovery	=	0.00%#
25) Nitrobenzene-d5	0.000	82	0	0.00	ppb	
Spiked Amount	50.000	Range	19 - 61	Recovery	=	0.00%#
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppb	
Spiked Amount	50.000	Range	21 - 58	Recovery	=	0.00%#
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount	50.000	Range	12 - 68	Recovery	=	0.00%#
85) Terphenyl-d14	0.000	244	0	0.00	ppb	
Spiked Amount	50.000	Range	16 - 65	Recovery	=	0.00%#
108) 1-chlorooctadecane	0.000	57	0	0.00	ppb	
111) O-terphenyl	0.000	230	0	0.00	ppb	

Target Compounds

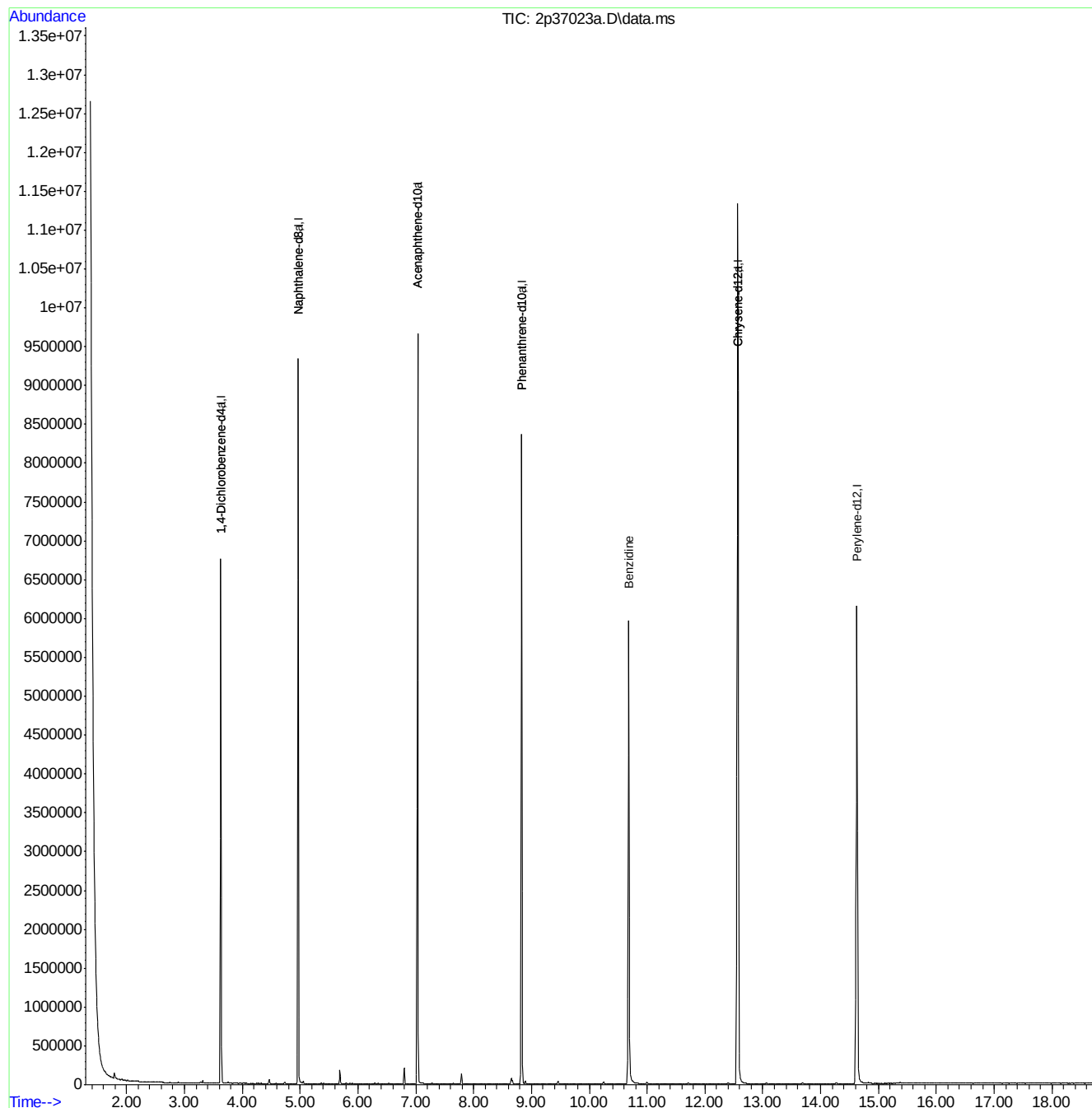
						Qvalue
109) Benzidine	10.684	184	2979442	54.14	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1540\
Data File : 2p37023a.D
Acq On : 29 May 2014 3:06 pm
Operator : olgaa
Sample : icv1540-50
Misc : op75027,e2p1540,
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 29 17:01:58 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 29 16:56:51 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1540\
 Data File : 2p37024.D
 Acq On : 29 May 2014 3:29 pm
 Operator : olgaa
 Sample : icv1540-50
 Misc : op75027,e2p1540,
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 29 16:52:18 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Thu May 29 16:41:03 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.624	152	705891	40.00	ppb	0.00
24) Naphthalene-d8	4.967	136	2650216	40.00	ppb	0.00
47) Acenaphthene-d10	7.031	164	1386524	40.00	ppb	0.00
69) Phenanthrene-d10	8.828	188	2135308	40.00	ppb	0.00
83) Chrysene-d12	12.567	240	1930968	40.00	ppb	-0.01
92) Perylene-d12	14.621	264	1694245	40.00	ppb	-0.01
102) 1,4-Dichlorobenzene-d4a	3.624	152	705891	40.00	ppb	0.00
104) Acenaphthene-d10a	7.031	164	1386524	40.00	ppb	0.00
107) Chrysene-d12a	12.567	240	1930968	40.00	ppb	0.00
110) Phenanthrene-d10a	8.828	188	2135308	40.00	ppb	0.00
112) Naphthalene-d8a	4.967	136	2650216	40.00	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount	50.000	Range	11 - 58	Recovery	=	0.00%#
8) Phenol-d5	0.000	99	0	0.00	ppb	
Spiked Amount	50.000	Range	10 - 59	Recovery	=	0.00%#
25) Nitrobenzene-d5	0.000	82	0	0.00	ppb	
Spiked Amount	50.000	Range	19 - 61	Recovery	=	0.00%#
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppb	
Spiked Amount	50.000	Range	21 - 58	Recovery	=	0.00%#
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount	50.000	Range	12 - 68	Recovery	=	0.00%#
85) Terphenyl-d14	0.000	244	0	0.00	ppb	
Spiked Amount	50.000	Range	16 - 65	Recovery	=	0.00%#
108) 1-chlorooctadecane	0.000	57	0	0.00	ppb	
111) O-terphenyl	0.000	230	0	0.00	ppb	

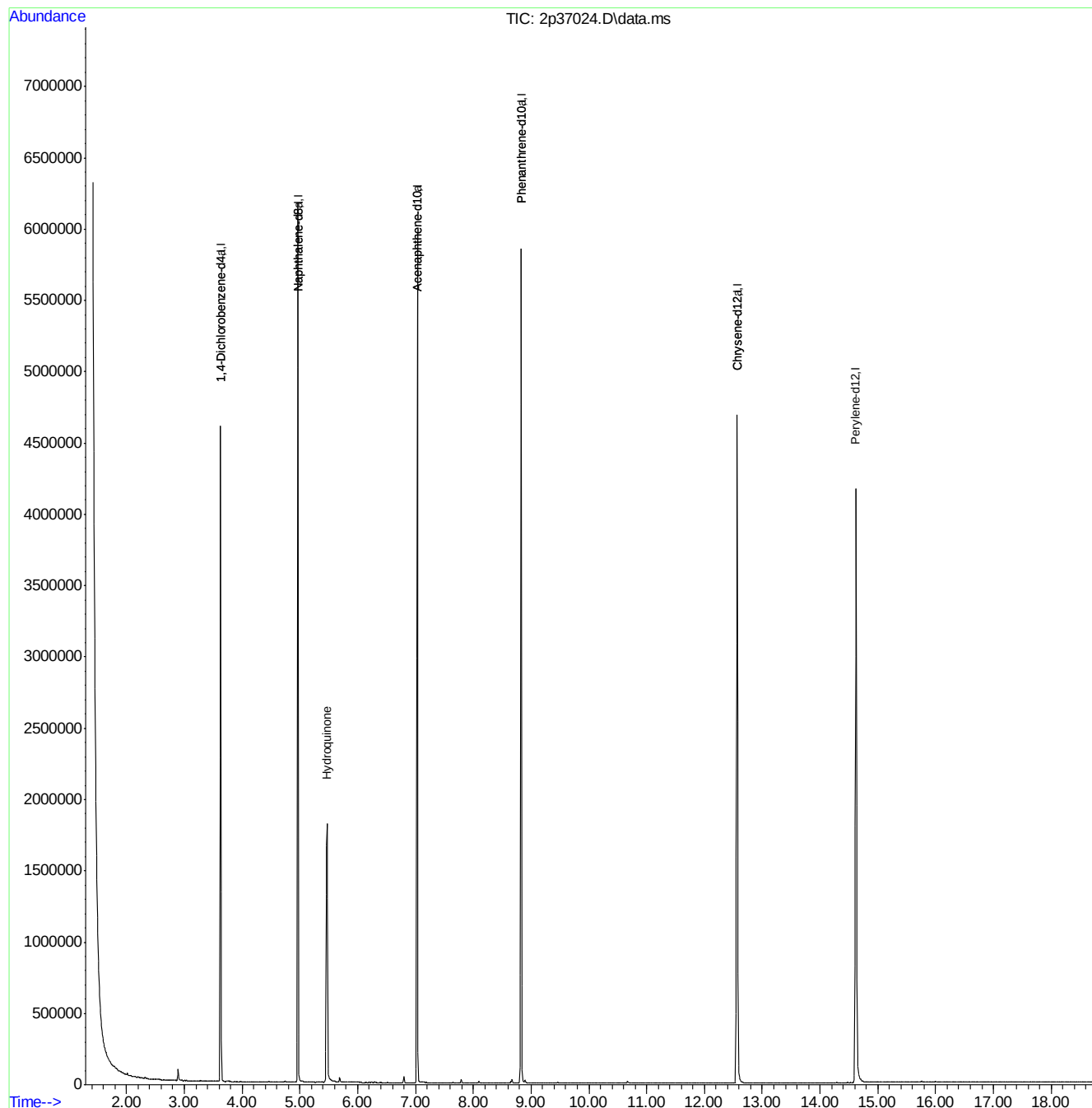
Target Compounds				Qvalue		
113) Hydroquinone	5.469	110	1197310	51.96	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1540\
Data File : 2p37024.D
Acq On : 29 May 2014 3:29 pm
Operator : olgaa
Sample : icv1540-50
Misc : op75027,e2p1540,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 29 16:52:18 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 29 16:41:03 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1541\
 Data File : 2p37028.D
 Acq On : 29 May 2014 7:03 pm
 Operator : ashleyd
 Sample : icv1539-50
 Misc : op75027,e2p1541
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 30 09:32:30 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Fri May 30 09:21:23 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.619	152	579615	40.00	ppb	0.00
24) Naphthalene-d8	4.956	136	2107291	40.00	ppb	-0.01
47) Acenaphthene-d10	7.021	164	1135127	40.00	ppb	-0.01
69) Phenanthrene-d10	8.823	188	1672835	40.00	ppb	-0.01
83) Chrysene-d12	12.557	240	1525537	40.00	ppb	-0.02
92) Perylene-d12	14.610	264	1382489	40.00	ppb	-0.02
102) 1,4-Dichlorobenzene-d4a	3.619	152	579615	40.00	ppb	0.00
104) Acenaphthene-d10a	7.021	164	1135127	40.00	ppb	-0.01
107) Chrysene-d12a	12.557	240	1525537	40.00	ppb	-0.02
110) Phenanthrene-d10a	8.823	188	1672835	40.00	ppb	-0.01
112) Naphthalene-d8a	4.956	136	2107291	40.00	ppb	-0.01

System Monitoring Compounds

5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount	50.000	Range	11 - 58	Recovery	=	0.00%#
8) Phenol-d5	0.000	99	0d	0.00	ppb	
Spiked Amount	50.000	Range	10 - 59	Recovery	=	0.00%#
25) Nitrobenzene-d5	0.000	82	0d	0.00	ppb	
Spiked Amount	50.000	Range	19 - 61	Recovery	=	0.00%#
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppb	
Spiked Amount	50.000	Range	21 - 58	Recovery	=	0.00%#
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount	50.000	Range	12 - 68	Recovery	=	0.00%#
85) Terphenyl-d14	0.000	244	0	0.00	ppb	
Spiked Amount	50.000	Range	16 - 65	Recovery	=	0.00%#
108) 1-chlorooctadecane	0.000	57	0	0.00	ppb	
111) 0-terphenyl	0.000	230	0	0.00	ppb	

Target Compounds

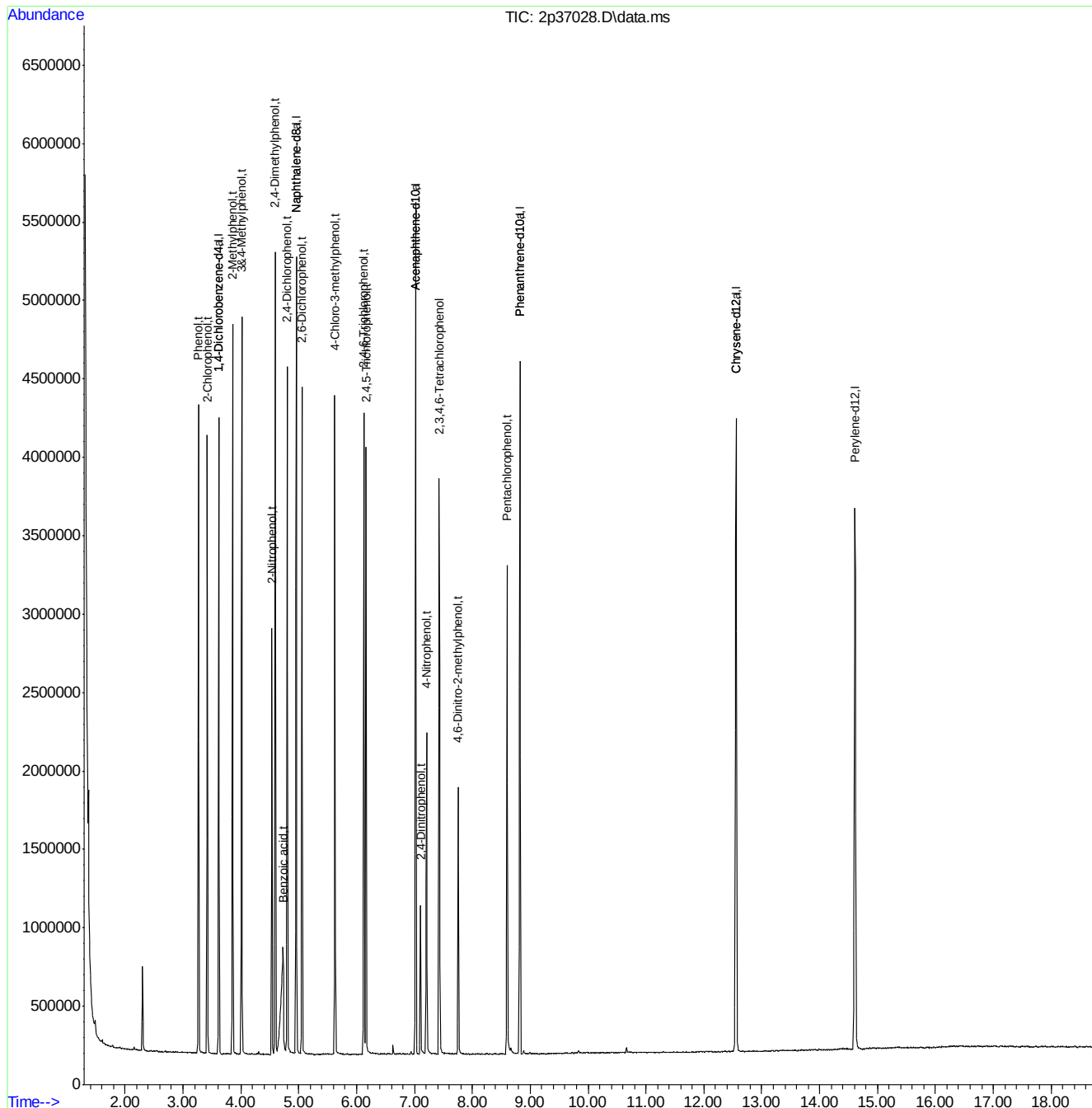
						Qvalue
9) Phenol	3.271	94	1197990	46.64	ppb	96
12) 2-Chlorophenol	3.421	128	1063616	48.58	ppb	94
19) 2-Methylphenol	3.860	108	889010	49.60	ppb	99
21) 3&4-Methylphenol	4.015	108	911889	48.95	ppb	98
29) 2-Nitrophenol	4.534	139	507290	50.37	ppb	93
30) 2,4-Dimethylphenol	4.592	107	931507	59.62	ppb	98
31) Benzoic acid	4.731	105	554047	42.44	ppb	98
33) 2,4-Dichlorophenol	4.801	162	763147	49.88	ppb	99
34) 2,6-Dichlorophenol	5.058	162	752800	51.93	ppb	98
43) 4-Chloro-3-methylphenol	5.625	107	775020	47.87	ppb	96
49) 2,4,6-Trichlorophenol	6.127	196	502517	52.98	ppb	99
50) 2,4,5-Trichlorophenol	6.165	196	532134	50.34	ppb	97
60) 2,4-Dinitrophenol	7.106	184	114239	35.45	ppb	88
61) 4-Nitrophenol	7.213	109	250282	53.07	ppb	93
64) 2,3,4,6-Tetrachlorophenol	7.427	232	370260	53.71	ppb	98
70) 4,6-Dinitro-2-methylph...	7.753	198	209317	42.46	ppb	96
76) Pentachlorophenol	8.599	266	288887	49.00	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1541\
Data File : 2p37028.D
Acq On : 29 May 2014 7:03 pm
Operator : ashleyd
Sample : icv1539-50
Misc : op75027,e2p1541
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 30 09:32:30 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri May 30 09:21:23 2014
Response via : Initial Calibration



9.6.26

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1542\
 Data File : 2p37030.D
 Acq On : 30 May 2014 9:02 am
 Operator : harpreek
 Sample : cc1539-50
 Misc : op75027,e2p1542
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 30 14:16:29 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Fri May 30 09:21:23 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.619	152	640216	40.00	ppb	0.00
24) Naphthalene-d8	4.962	136	2431462	40.00	ppb	0.00
47) Acenaphthene-d10	7.026	164	1320171	40.00	ppb	0.00
69) Phenanthrene-d10	8.829	188	2047942	40.00	ppb	0.00
83) Chrysene-d12	12.573	240	1968910	40.00	ppb	0.00
92) Perylene-d12	14.621	264	1739185	40.00	ppb	-0.01
102) 1,4-Dichlorobenzene-d4a	3.619	152	640216	40.00	ppb	0.00
104) Acenaphthene-d10a	7.026	164	1320171	40.00	ppb	0.00
107) Chrysene-d12a	12.573	240	1968910	40.00	ppb	0.00
109) Naphthalene-d8a	4.962	136	2431462	40.00	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol	2.517	112	1098483	50.16	ppb	0.00
Spiked Amount	50.000	Range	11 - 58	Recovery	=	100.32%#
8) Phenol-d5	3.266	99	1303043	49.25	ppb	0.00
Spiked Amount	50.000	Range	10 - 59	Recovery	=	98.50%#
25) Nitrobenzene-d5	4.181	82	1050253	48.38	ppb	0.00
Spiked Amount	50.000	Range	19 - 61	Recovery	=	96.76%#
51) 2-Fluorobiphenyl	6.234	172	1983798	47.84	ppb	0.00
Spiked Amount	50.000	Range	21 - 58	Recovery	=	95.68%#
73) 2,4,6-Tribromophenol	7.978	330	256703	54.02	ppb	-0.01
Spiked Amount	50.000	Range	12 - 68	Recovery	=	108.04%#
85) Terphenyl-d14	11.038	244	1970951	50.33	ppb	-0.01
Spiked Amount	50.000	Range	16 - 65	Recovery	=	100.66%#

Target Compounds

						Qvalue
2) 1,4-Dioxane	1.619	88	491067	51.38	ppb	99
3) Pyridine	1.774	79	1181396	48.01	ppb	99
4) N-Nitrosodimethylamine	1.752	74	600670	48.82	ppb	98
6) Indene	3.876	116	1999968	47.49	ppb	100
7) Cumene	2.924	105	2989158	49.40	ppb	99
9) Phenol	3.277	94	1368435	48.23	ppb	98
10) Aniline	3.314	93	1334211	44.11	ppb	96
11) bis(2-Chloroethyl)ether	3.368	93	944734	47.78	ppb	95
12) 2-Chlorophenol	3.426	128	1161538	48.03	ppb	95
13) Decane	3.469	57	1106755	45.18	ppb	99
14) 1,3-Dichlorobenzene	3.571	146	1275355	48.73	ppb	99
15) 1,4-Dichlorobenzene	3.640	146	1265792	48.81	ppb	99
16) Benzyl alcohol	3.753	108	713917	49.34	ppb	98
17) 1,2-Dichlorobenzene	3.790	146	1178813	48.42	ppb	99
18) Acetophenone	4.020	105	1588555	45.82	ppb	99
19) 2-Methylphenol	3.865	108	956376	48.30	ppb	100
20) 2,2'-oxybis(1-Chloropr...	3.892	121	297343	47.19	ppb	# 90
21) 3&4-Methylphenol	4.025	108	957880	46.55	ppb	99
22) n-Nitroso-di-n-propyla...	4.031	70	626472	48.08	ppb	100
23) Hexachloroethane	4.132	201	400615	49.70	ppb	96
26) Nitrobenzene	4.202	77	1058222	47.37	ppb	97
27) Quinoline	5.373	129	2522745	48.82	ppb	100
28) Isophorone	4.459	82	1846443	48.39	ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1542\
 Data File : 2p37030.D
 Acq On : 30 May 2014 9:02 am
 Operator : harpreek
 Sample : cc1539-50
 Misc : op75027,e2p1542
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 30 14:16:29 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Fri May 30 09:21:23 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
29) 2-Nitrophenol	4.544	139	601318	51.75	ppb	97
30) 2,4-Dimethylphenol	4.598	107	972057	53.92	ppb	100
31) Benzoic acid	4.748	105	631305	41.96	ppb	98
32) bis(2-Chloroethoxy)met...	4.705	93	1130684	47.79	ppb	100
33) 2,4-Dichlorophenol	4.806	162	885570	50.17	ppb	99
34) 2,6-Dichlorophenol	5.068	162	835973	49.98	ppb	96
35) 1,3,5-Trichlorobenzene	4.560	180	1129960	48.45	ppb	100
36) 1,2,4-Trichlorobenzene	4.903	180	969783	49.28	ppb	100
37) 1,2,3-Trichlorobenzene	5.154	180	1050600	48.58	ppb	100
38) Naphthalene	4.988	128	3074629	47.36	ppb	100
39) 4-Chloroaniline	5.058	127	1332322	47.26	ppb	99
40) 2,3-Dichloroaniline	6.122	161	1260633	49.50	ppb	99
41) Caprolactam	5.475	113	380342	52.22	ppb	98
42) Hexachlorobutadiene	5.149	225	480580	50.15	ppb	99
43) 4-Chloro-3-methylphenol	5.646	107	948068	50.76	ppb	95
44) 2-Methylnaphthalene	5.791	141	1854920	49.27	ppb	98
45) 1-Methylnaphthalene	5.903	141	2064692	48.55	ppb	99
46) Dimethylnaphthalene	6.534	156	2010969	48.82	ppb	100
48) Hexachlorocyclopentadiene	5.994	237	1117830	116.93	ppb	98
49) 2,4,6-Trichlorophenol	6.133	196	578990	52.49	ppb	99
50) 2,4,5-Trichlorophenol	6.176	196	645259	52.49	ppb	99
52) 2-Chloronaphthalene	6.363	162	1826065	46.64	ppb	99
53) Biphenyl	6.352	154	2738688	47.56	ppb	100
54) 2-Nitroaniline	6.497	65	564300	50.02	ppb	99
55) Dimethylphthalate	6.737	163	2069990	48.32	ppb	100
56) Acenaphthylene	6.850	152	3118504	48.41	ppb	99
57) 2,6-Dinitrotoluene	6.796	165	486203	53.36	ppb	98
58) 3-Nitroaniline	6.994	138	634811	51.76	ppb	99
59) Acenaphthene	7.069	153	1924740	47.95	ppb	98
60) 2,4-Dinitrophenol	7.117	184	459337	92.73	ppb	97
61) 4-Nitrophenol	7.224	109	313368	57.13	ppb	97
62) Dibenzofuran	7.277	168	2514262	47.29	ppb	98
63) 2,4-Dinitrotoluene	7.277	165	641394	53.47	ppb	95
64) 2,3,4,6-Tetrachlorophenol	7.433	232	479250	59.77	ppb	96
65) Diethylphthalate	7.598	149	2195072	49.13	ppb	99
66) Fluorene	7.689	166	2141991	49.70	ppb	97
67) 4-Chlorophenyl-phenyle...	7.705	204	869734	49.31	ppb	96
68) 4-Nitroaniline	7.737	138	592086	49.52	ppb	96
70) 4,6-Dinitro-2-methylph...	7.770	198	302106	49.26	ppb	100
71) n-Nitrosodiphenylamine	7.855	169	1390953	48.89	ppb	98
72) 1,2-Diphenylhydrazine	7.898	77	2068227	46.47	ppb	95
74) 4-Bromophenyl-phenylether	8.294	248	514816	51.28	ppb	94
75) Hexachlorobenzene	8.358	284	605968	51.31	ppb	94
76) Pentachlorophenol	8.609	266	779943	100.22	ppb	99
77) Phenanthrene	8.855	178	2884906	48.40	ppb	100
78) Anthracene	8.919	178	2891810	49.30	ppb	100
79) Carbazole	9.144	167	3344216	48.91	ppb	100
80) Di-n-butylphthalate	9.663	149	3832163	51.74	ppb	99
81) Fluoranthene	10.449	202	3239464	51.53	ppb	97
82) Octadecane	8.780	43	855112	45.43	ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1542\
 Data File : 2p37030.D
 Acq On : 30 May 2014 9:02 am
 Operator : harpreek
 Sample : cc1539-50
 Misc : op75027,e2p1542
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 30 14:16:29 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Fri May 30 09:21:23 2014
 Response via : Initial Calibration

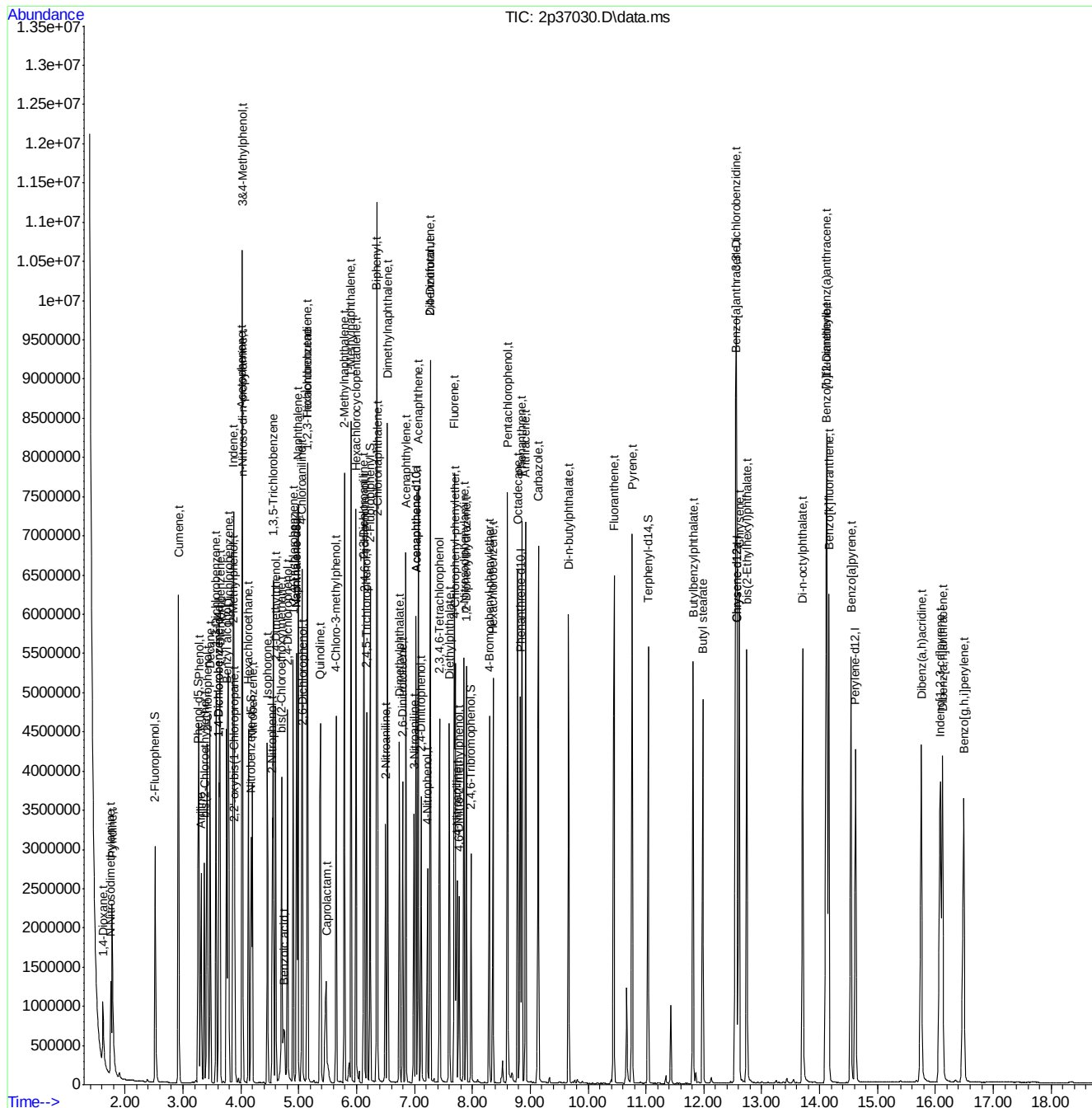
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
84) Pyrene	10.759	202	3357176	48.88	ppb	99
86) Butylbenzylphthalate	11.813	149	1757480	54.58	ppb	99
87) Butyl stearate	11.979	56	886842	52.70	ppb	98
88) Benzo[a]anthracene	12.551	228	2868090	49.27	ppb	99
89) 3,3'-Dichlorobenzidine	12.557	252	1043711	55.60	ppb	99
90) Chrysene	12.610	228	2514054	49.55	ppb	99
91) bis(2-Ethylhexyl)phtha...	12.738	149	2326688	53.98	ppb	100
93) Di-n-octylphthalate	13.707	149	4259989	48.73	ppb	98
94) Benzo[b]fluoranthene	14.118	252	3130639	55.37	ppb	99
95) Benzo[k]fluoranthene	14.161	252	2530850	49.05	ppb	97
96) Benzo[a]pyrene	14.546	252	2548558	53.20	ppb	100
97) Indeno[1,2,3-cd]pyrene	16.081	276	2659679	46.41	ppb	95
98) Dibenz(a,h)acridine	15.755	279	2627310	53.69	ppb	100
99) Dibenz[a,h]anthracene	16.124	278	2493959	54.54	ppb	99
100) 7,12-Dimethylbenz(a)an...	14.124	256	1452462	49.27	ppb	98
101) Benzo[g,h,i]perylene	16.493	276	2549756	54.65	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1542\
Data File : 2p37030.D
Acq On : 30 May 2014 9:02 am
Operator : harpreek
Sample : cc1539-50
Misc : op75027,e2p1542
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 30 14:16:29 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri May 30 09:21:23 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1542\
 Data File : 2p37031.D
 Acq On : 30 May 2014 9:41 am
 Operator : harpreek
 Sample : cc1540-50
 Misc : op75027,e2p1542
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 31 11:17:26 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Fri May 30 09:21:23 2014
 Response via : Initial Calibration

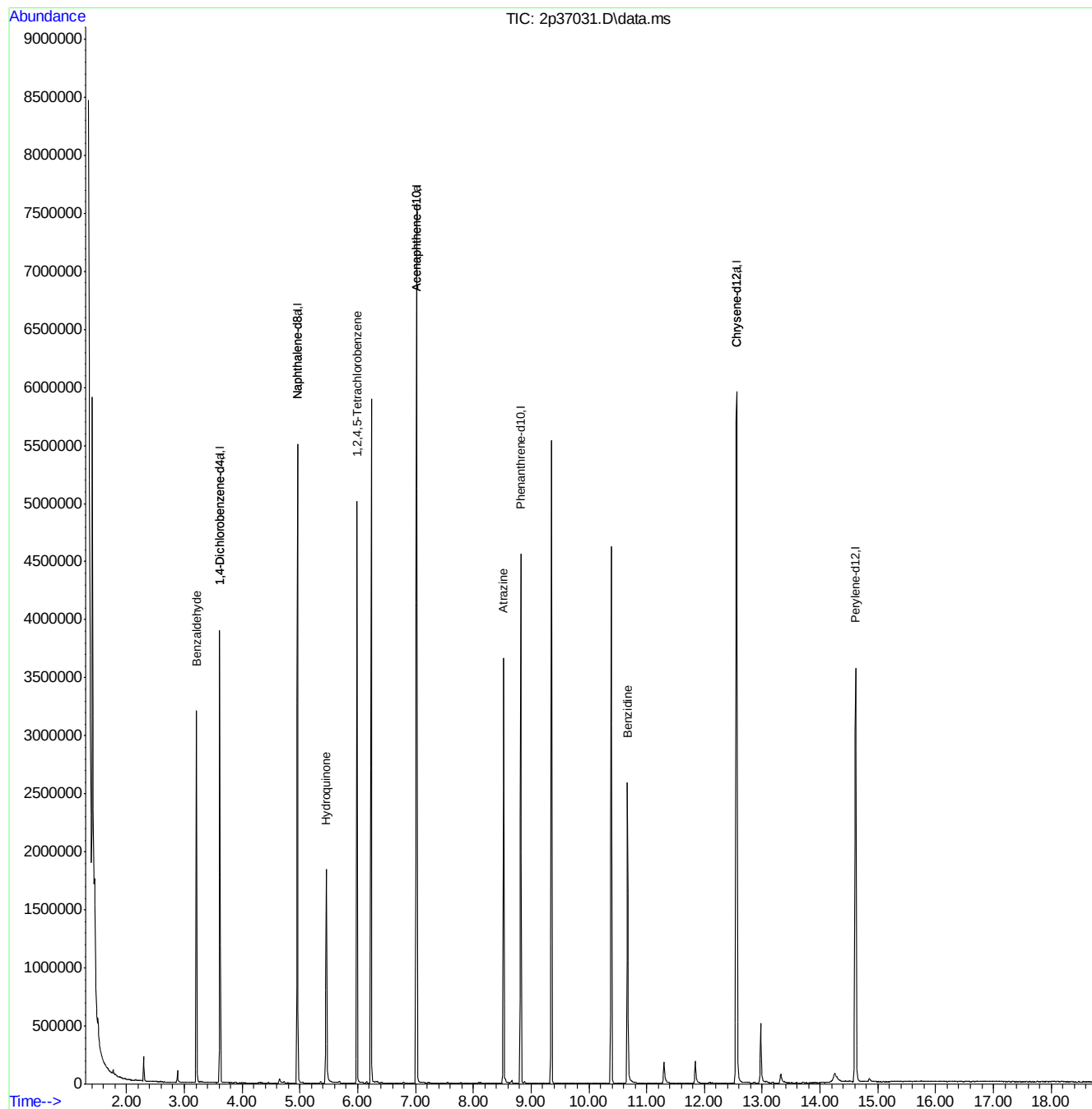
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.614	152	592982	40.00	ppb	-0.01
24) Naphthalene-d8	4.956	136	2212043	40.00	ppb	-0.01
47) Acenaphthene-d10	7.021	164	1068832	40.00	ppb	-0.01
69) Phenanthrene-d10	8.823	188	1702864	40.00	ppb	-0.01
83) Chrysene-d12	12.556	240	1582543	40.00	ppb	-0.02
92) Perylene-d12	14.616	264	1444990	40.00	ppb	-0.02
102) 1,4-Dichlorobenzene-d4a	3.614	152	592982	40.00	ppb	-0.01
104) Acenaphthene-d10a	7.021	164	1068832	40.00	ppb	-0.01
107) Chrysene-d12a	12.556	240	1582543	40.00	ppb	-0.02
109) Naphthalene-d8a	4.956	136	2212043	40.00	ppb	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount	50.000	Range	11 - 58	Recovery	=	0.00%#
8) Phenol-d5	0.000	99	0	0.00	ppb	
Spiked Amount	50.000	Range	10 - 59	Recovery	=	0.00%#
25) Nitrobenzene-d5	0.000	82	0	0.00	ppb	
Spiked Amount	50.000	Range	19 - 61	Recovery	=	0.00%#
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppb	
Spiked Amount	50.000	Range	21 - 58	Recovery	=	0.00%#
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount	50.000	Range	12 - 68	Recovery	=	0.00%#
85) Terphenyl-d14	0.000	244	0	0.00	ppb	
Spiked Amount	50.000	Range	16 - 65	Recovery	=	0.00%#
Target Compounds						
103) Benzaldehyde	3.212	105	642673	40.85	ppb	Qvalue 98
105) Atrazine	8.524	215	214809	57.88	ppb	91
106) 1,2,4,5-Tetrachloroben...	5.988	216	783023	53.20	ppb	98
108) Benzidine	10.668	184	1135550	40.58	ppb	99
110) Hydroquinone	5.453	110	1002620	52.13	ppb	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1542\
Data File : 2p37031.D
Acq On : 30 May 2014 9:41 am
Operator : harpreek
Sample : cc1540-50
Misc : op75027,e2p1542
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 31 11:17:26 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1539.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri May 30 09:21:23 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p276\
 Data File : 6p6524.D
 Acq On : 26 Apr 2014 10:41 am
 Operator : ashleyd
 Sample : icc276-50
 Misc : op73158,e6p276
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 28 11:40:15 2014
 Quant Method : C:\msdchem\1\METHODS\M6P277.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Mon Apr 28 11:39:01 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

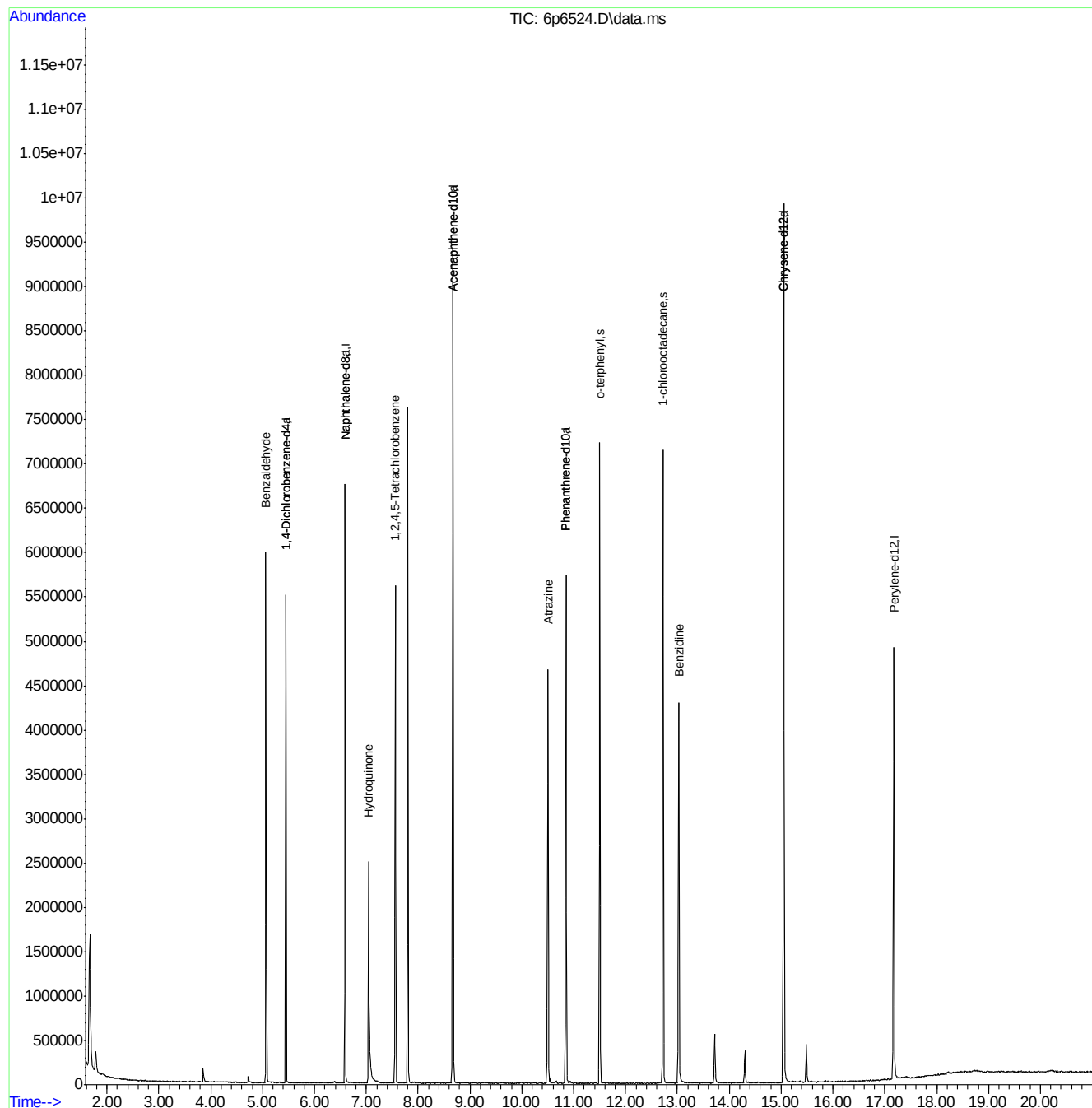
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.448	152	581024	40.00	ppb	-0.08
24) Naphthalene-d8	6.593	136	2273842	40.00	ppb	-0.10
47) Acenaphthene-d10	8.674	164	1324101	40.00	ppb	-0.13
69) Phenanthrene-d10	10.851	188	2240011	40.00	ppb	-0.14
83) Chrysene-d12	15.049	240	2340921	40.00	ppb	-0.16
92) Perylene-d12	17.178	264	2203334	40.00	ppb	-0.16
102) 1,4-Dichlorobenzene-d4a	5.448	152	581024	40.00	ppb	0.00
104) Phenanthrene-d10a	10.851	188	2240011	40.00	ppb	0.00
107) Chrysene-d12a	15.049	240	2340921	40.00	ppb	0.00
110) Acenaphthene-d10a	8.674	164	1324101	40.00	ppb	0.00
112) Naphthalene-d8a	6.593	136	2273842	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
86) Terphenyl-d14	0.000	244	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
106) o-terphenyl	11.503	230	1509433	50.00	ppb	0.00
Spiked Amount	50.000		Recovery	=	100.00%	
109) 1-chlorooctadecane	12.723	57	961980	50.00	ppb	0.00
Spiked Amount	50.000		Recovery	=	100.00%	
Target Compounds						Qvalue
103) Benzaldehyde	5.063	105	971891	50.00	ppb	90
105) Atrazine	10.503	215	309600	50.00	ppb	# 80
108) Benzidine	13.027	184	1901610	50.00	ppb	98
111) 1,2,4,5-Tetrachloroben...	7.561	216	818028	50.00	ppb	96
113) Hydroquinone	7.042	110	1237857	50.00	ppb	84

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p276\
Data File : 6p6524.D
Acq On : 26 Apr 2014 10:41 am
Operator : ashleyd
Sample : icc276-50
Misc : op73158,e6p276
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 28 11:40:15 2014
Quant Method : C:\msdchem\1\METHODS\M6P277.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Mon Apr 28 11:39:01 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p276\
 Data File : 6p6525.D
 Acq On : 26 Apr 2014 11:09 am
 Operator : ashleyd
 Sample : ic276-25
 Misc : op73158,e6p276
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 28 11:40:59 2014
 Quant Method : C:\msdchem\1\METHODS\M6P277.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Mon Apr 28 11:39:01 2014
 Response via : Initial Calibration

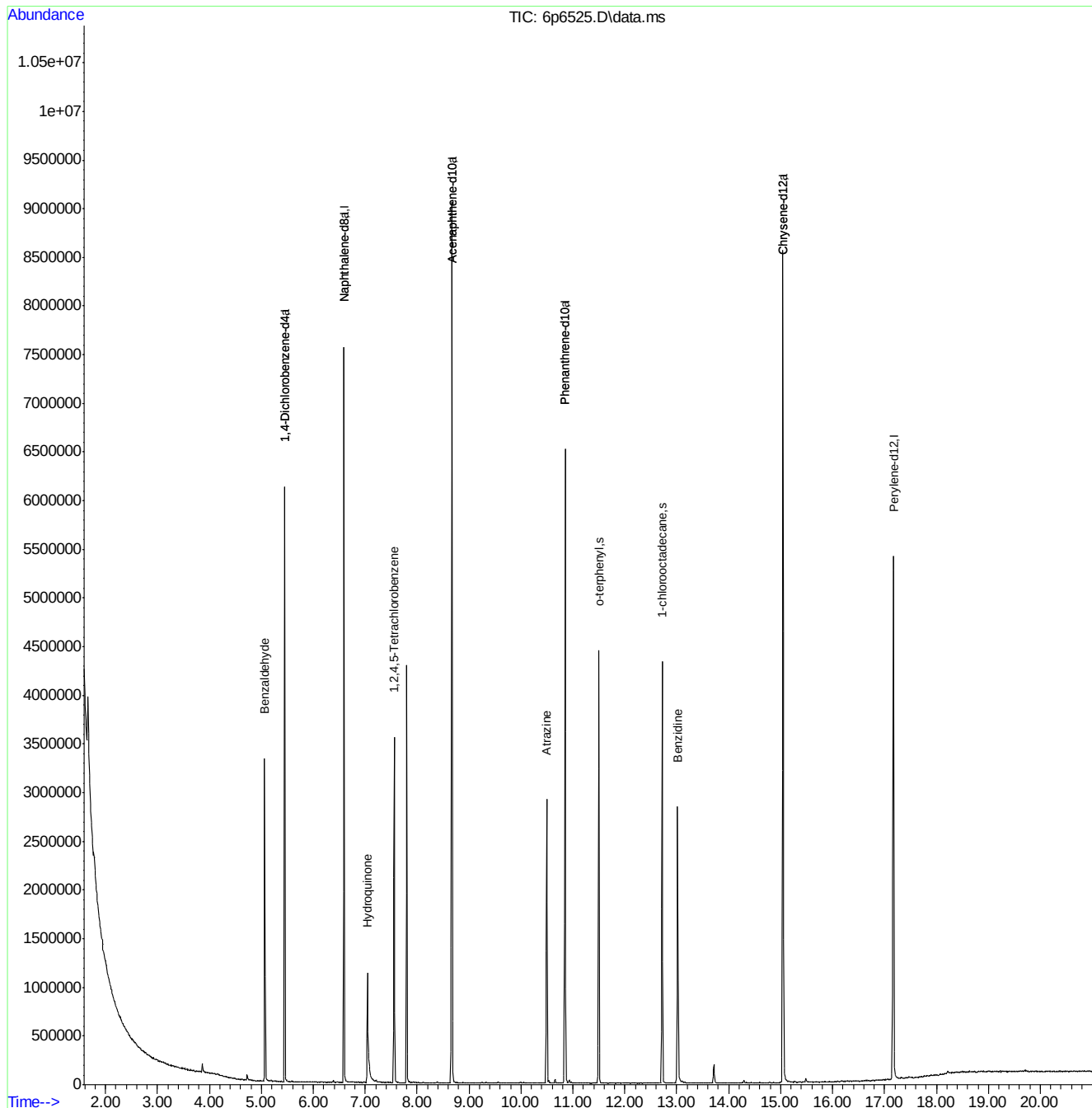
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.449	152	677596	40.00	ppb	-0.08
24) Naphthalene-d8	6.593	136	2696593	40.00	ppb	-0.10
47) Acenaphthene-d10	8.674	164	1591797	40.00	ppb	-0.13
69) Phenanthrene-d10	10.851	188	2598487	40.00	ppb	-0.14
83) Chrysene-d12	15.049	240	2631552	40.00	ppb	-0.16
92) Perylene-d12	17.173	264	2410979	40.00	ppb	-0.17
102) 1,4-Dichlorobenzene-d4a	5.449	152	677596	40.00	ppb	0.00
104) Phenanthrene-d10a	10.851	188	2598487	40.00	ppb	0.00
107) Chrysene-d12a	15.049	240	2631552	40.00	ppb	0.00
110) Acenaphthene-d10a	8.674	164	1591797	40.00	ppb	0.00
112) Naphthalene-d8a	6.593	136	2696593	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
86) Terphenyl-d14	0.000	244	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
106) o-terphenyl	11.498	230	900792	25.72	ppb	0.00
Spiked Amount	50.000		Recovery	=	51.44%	
109) 1-chlorooctadecane	12.717	57	576531	26.66	ppb	0.00
Spiked Amount	50.000		Recovery	=	53.32%	
Target Compounds						
103) Benzaldehyde	5.063	105	598182	26.39	ppb	Qvalue 89
105) Atrazine	10.498	215	182597	25.42	ppb	# 84
108) Benzidine	13.017	184	1170642	27.38	ppb	98
111) 1,2,4,5-Tetrachloroben...	7.556	216	498050	25.32	ppb	98
113) Hydroquinone	7.042	110	690153	23.51	ppb	90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p276\
Data File : 6p6525.D
Acq On : 26 Apr 2014 11:09 am
Operator : ashleyd
Sample : ic276-25
Misc : op73158,e6p276
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 28 11:40:59 2014
Quant Method : C:\msdchem\1\METHODS\M6P277.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Mon Apr 28 11:39:01 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p276\
 Data File : 6p6526.D
 Acq On : 26 Apr 2014 11:38 am
 Operator : ashleyd
 Sample : ic276-80
 Misc : op73158,e6p276
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 28 11:41:40 2014
 Quant Method : C:\msdchem\1\METHODS\M6P277.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Mon Apr 28 11:39:01 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

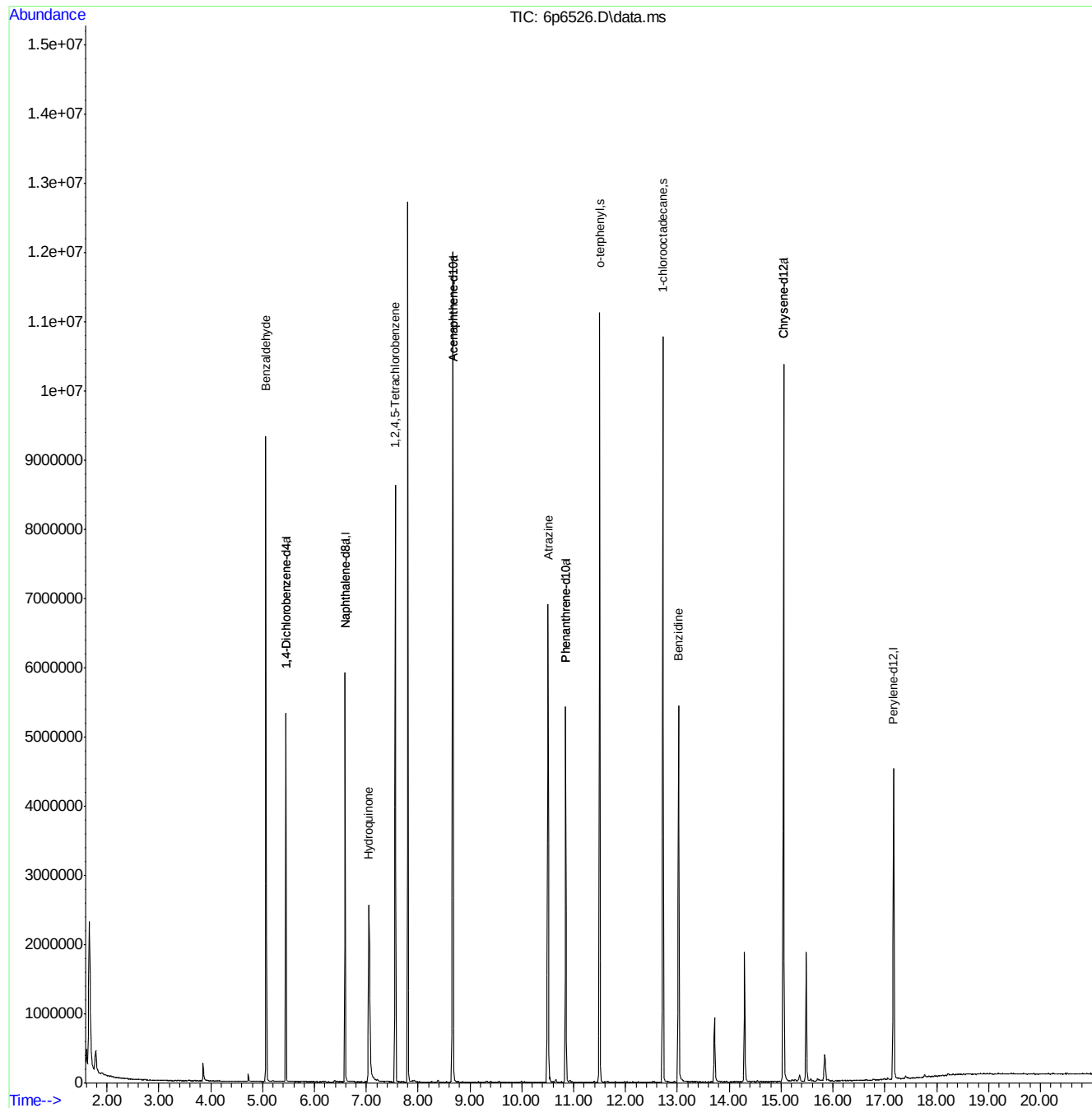
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.448	152	576942	40.00	ppb	-0.08
24) Naphthalene-d8	6.593	136	2262541	40.00	ppb	-0.10
47) Acenaphthene-d10	8.674	164	1291901	40.00	ppb	-0.13
69) Phenanthrene-d10	10.845	188	2145254	40.00	ppb	-0.15
83) Chrysene-d12	15.044	240	2132218	40.00	ppb	-0.17
92) Perylene-d12	17.167	264	2029920	40.00	ppb	-0.17
102) 1,4-Dichlorobenzene-d4a	5.448	152	576942	40.00	ppb	0.00
104) Phenanthrene-d10a	10.845	188	2145254	40.00	ppb	0.00
107) Chrysene-d12a	15.044	240	2132218	40.00	ppb	0.00
110) Acenaphthene-d10a	8.674	164	1291901	40.00	ppb	0.00
112) Naphthalene-d8a	6.593	136	2262541	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
86) Terphenyl-d14	0.000	244	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
106) o-terphenyl	11.503	230	2474095	85.57	ppb	0.00
Spiked Amount	50.000		Recovery	=	171.14%	
109) 1-chlorooctadecane	12.717	57	1543144	88.06	ppb	0.00
Spiked Amount	50.000		Recovery	=	176.12%	
Target Compounds						
103) Benzaldehyde	5.063	105	1583809	82.06	ppb	92
105) Atrazine	10.508	215	500256	84.36	ppb	83
108) Benzidine	13.022	184	2309736	66.68	ppb	98
111) 1,2,4,5-Tetrachloroben...	7.561	216	1366636	85.61	ppb	97
113) Hydroquinone	7.048	110	2102711	85.36	ppb	84

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p276\
Data File : 6p6526.D
Acq On : 26 Apr 2014 11:38 am
Operator : ashleyd
Sample : ic276-80
Misc : op73158,e6p276
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 28 11:41:40 2014
Quant Method : C:\msdchem\1\METHODS\M6P277.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Mon Apr 28 11:39:01 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p276\
 Data File : 6p6527.D
 Acq On : 26 Apr 2014 12:06 pm
 Operator : ashleyd
 Sample : ic276-100
 Misc : op73158,e6p276
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 28 11:42:26 2014
 Quant Method : C:\msdchem\1\METHODS\M6P277.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Mon Apr 28 11:39:01 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

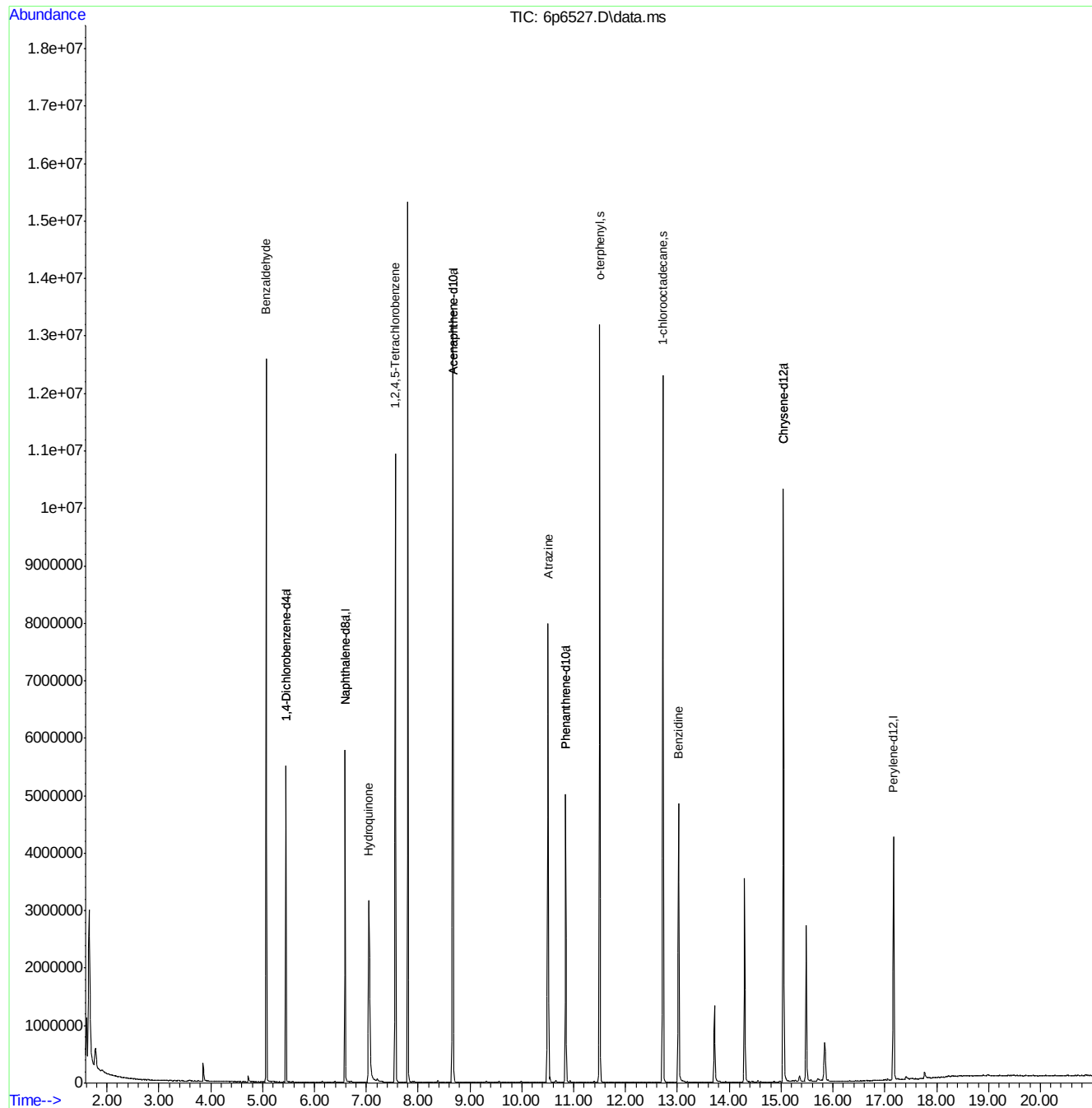
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.449	152	558308	40.00	ppb	-0.08
24) Naphthalene-d8	6.593	136	2169497	40.00	ppb	-0.10
47) Acenaphthene-d10	8.674	164	1236790	40.00	ppb	-0.13
69) Phenanthrene-d10	10.845	188	2047473	40.00	ppb	-0.15
83) Chrysene-d12	15.044	240	1979788	40.00	ppb	-0.17
92) Perylene-d12	17.167	264	1846934	40.00	ppb	-0.17
102) 1,4-Dichlorobenzene-d4a	5.449	152	558308	40.00	ppb	0.00
104) Phenanthrene-d10a	10.845	188	2047473	40.00	ppb	0.00
107) Chrysene-d12a	15.044	240	1979788	40.00	ppb	0.00
110) Acenaphthene-d10a	8.674	164	1236790	40.00	ppb	0.00
112) Naphthalene-d8a	6.593	136	2169497	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
86) Terphenyl-d14	0.000	244	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
106) o-terphenyl	11.503	230	2920533	105.84	ppb	0.00
Spiked Amount	50.000		Recovery	=	211.68%	
109) 1-chlorooctadecane	12.717	57	1812092	111.37	ppb	0.00
Spiked Amount	50.000		Recovery	=	222.74%	
Target Compounds						
103) Benzaldehyde	5.069	105	1884864	100.91	ppb	Qvalue 93
105) Atrazine	10.508	215	607049	107.26	ppb	# 85
108) Benzidine	13.022	184	2078911	64.63	ppb	98
111) 1,2,4,5-Tetrachloroben...	7.561	216	1658202	108.51	ppb	98
113) Hydroquinone	7.048	110	2550873	107.99	ppb	86

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p276\
Data File : 6p6527.D
Acq On : 26 Apr 2014 12:06 pm
Operator : ashleyd
Sample : ic276-100
Misc : op73158,e6p276
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 28 11:42:26 2014
Quant Method : C:\msdchem\1\METHODS\M6P277.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Mon Apr 28 11:39:01 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p276\
 Data File : 6p6528.D
 Acq On : 26 Apr 2014 12:34 pm
 Operator : ashleyd
 Sample : ic276-10
 Misc : op73158,e6p276
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 28 11:44:11 2014
 Quant Method : C:\msdchem\1\METHODS\M6P277.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Mon Apr 28 11:39:01 2014
 Response via : Initial Calibration

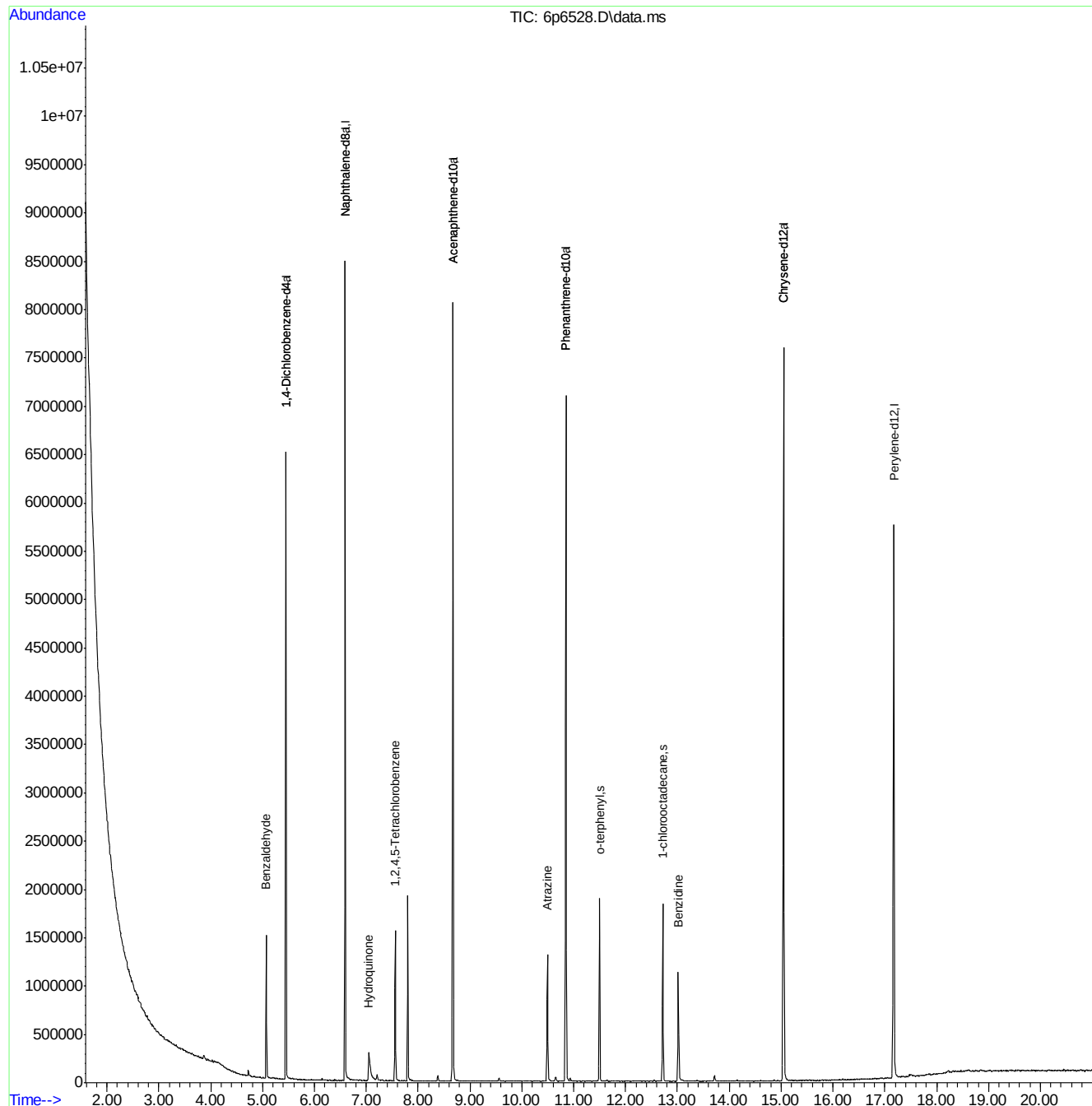
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.449	152	743187	40.00	ppb	-0.08
24) Naphthalene-d8	6.593	136	2966465	40.00	ppb	-0.10
47) Acenaphthene-d10	8.674	164	1715675	40.00	ppb	-0.13
69) Phenanthrene-d10	10.851	188	2793871	40.00	ppb	-0.14
83) Chrysene-d12	15.049	240	2742820	40.00	ppb	-0.16
92) Perylene-d12	17.173	264	2504164	40.00	ppb	-0.17
102) 1,4-Dichlorobenzene-d4a	5.449	152	743187	40.00	ppb	0.00
104) Phenanthrene-d10a	10.851	188	2793871	40.00	ppb	0.00
107) Chrysene-d12a	15.049	240	2742820	40.00	ppb	0.00
110) Acenaphthene-d10a	8.674	164	1715675	40.00	ppb	0.00
112) Naphthalene-d8a	6.593	136	2966465	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
86) Terphenyl-d14	0.000	244	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
106) o-terphenyl	11.498	230	389669	10.35	ppb	0.00
Spiked Amount	50.000		Recovery	=	20.70%	
109) 1-chlorooctadecane	12.717	57	242730	10.77	ppb	0.00
Spiked Amount	50.000		Recovery	=	21.54%	
Target Compounds						
103) Benzaldehyde	5.069	105	263529	10.60	ppb	Qvalue 91
105) Atrazine	10.492	215	78385	10.15	ppb	# 86
108) Benzidine	13.017	184	475202	10.66	ppb	97
111) 1,2,4,5-Tetrachloroben...	7.556	216	226485	10.68	ppb	99
113) Hydroquinone	7.048	110	256563	7.94	ppb	88

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p276\
Data File : 6p6528.D
Acq On : 26 Apr 2014 12:34 pm
Operator : ashleyd
Sample : ic276-10
Misc : op73158,e6p276
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 28 11:44:11 2014
Quant Method : C:\msdchem\1\METHODS\M6P277.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Mon Apr 28 11:39:01 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p276\
 Data File : 6p6529.D
 Acq On : 26 Apr 2014 1:46 pm
 Operator : ashleyd
 Sample : ic276-5
 Misc : op73158,e6p276
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 28 11:44:47 2014
 Quant Method : C:\msdchem\1\METHODS\M6P277.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Mon Apr 28 11:39:01 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

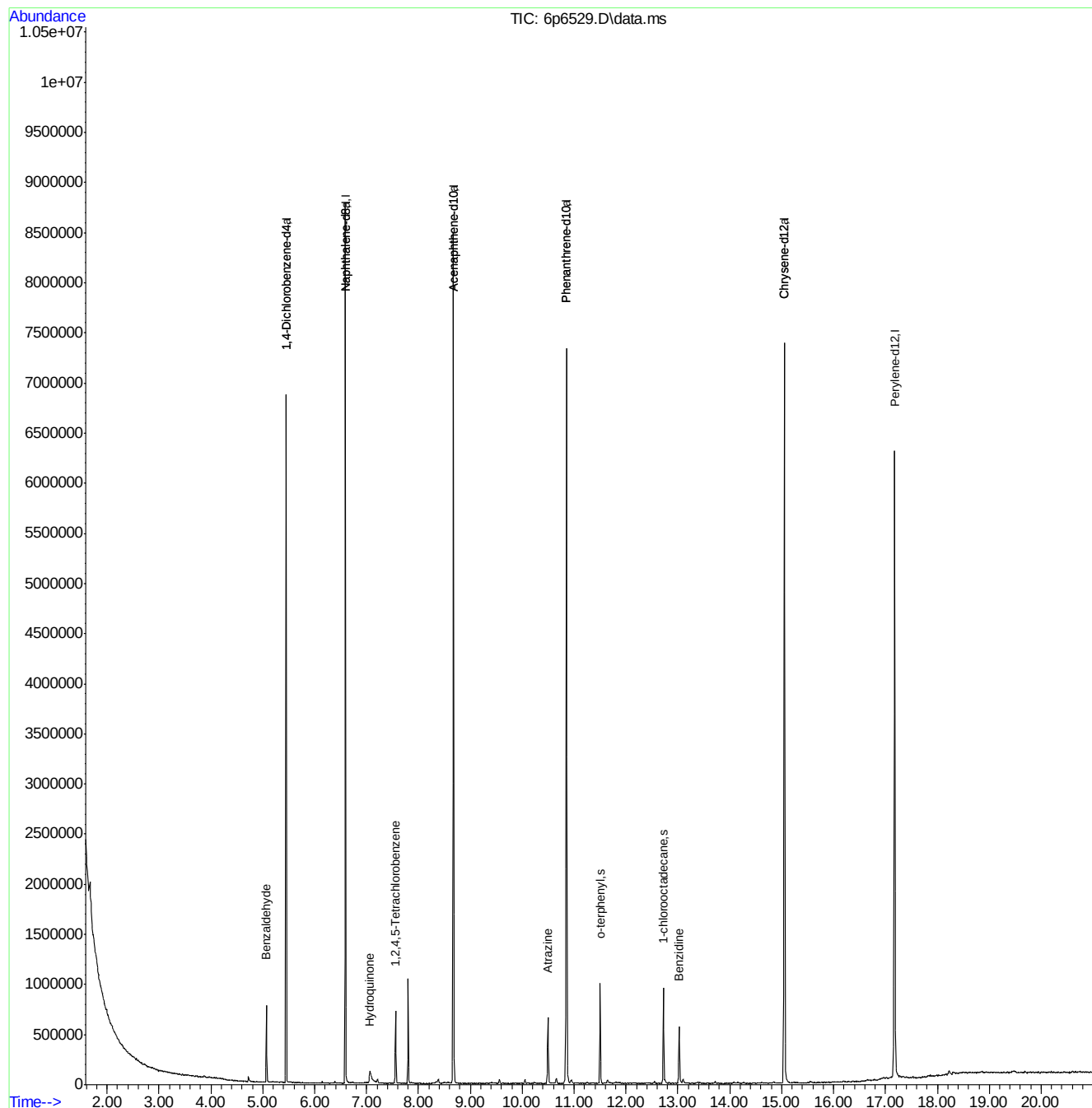
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.449	152	747134	40.00	ppb	-0.08
24) Naphthalene-d8	6.593	136	2995063	40.00	ppb	-0.10
47) Acenaphthene-d10	8.674	164	1739008	40.00	ppb	-0.13
69) Phenanthrene-d10	10.851	188	2915064	40.00	ppb	-0.14
83) Chrysene-d12	15.055	240	2926980	40.00	ppb	-0.16
92) Perylene-d12	17.178	264	2780213	40.00	ppb	-0.16
102) 1,4-Dichlorobenzene-d4a	5.449	152	747134	40.00	ppb	0.00
104) Phenanthrene-d10a	10.851	188	2915064	40.00	ppb	0.00
107) Chrysene-d12a	15.055	240	2926980	40.00	ppb	0.00
110) Acenaphthene-d10a	8.674	164	1739008	40.00	ppb	0.00
112) Naphthalene-d8a	6.593	136	2995063	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
86) Terphenyl-d14	0.000	244	0d	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
106) o-terphenyl	11.503	230	211535	5.38	ppb	0.00
Spiked Amount 50.000			Recovery	=	10.76%	
109) 1-chlorooctadecane	12.717	57	128884	5.36	ppb	0.00
Spiked Amount 50.000			Recovery	=	10.72%	
Target Compounds						
103) Benzaldehyde	5.069	105	134734	5.39	ppb	90
105) Atrazine	10.498	215	40163	4.98	ppb	89
108) Benzidine	13.022	184	243247	5.12	ppb	97
111) 1,2,4,5-Tetrachloroben...	7.561	216	113032	5.26	ppb	98
113) Hydroquinone	7.064	110	108732	3.33	ppb	92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p276\
Data File : 6p6529.D
Acq On : 26 Apr 2014 1:46 pm
Operator : ashleyd
Sample : ic276-5
Misc : op73158,e6p276
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 28 11:44:47 2014
Quant Method : C:\msdchem\1\METHODS\M6P277.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Mon Apr 28 11:39:01 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p276\
 Data File : 6p6530.D
 Acq On : 26 Apr 2014 2:14 pm
 Operator : ashleyd
 Sample : ic276-2
 Misc : op73158,e6p276
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 28 11:46:29 2014
 Quant Method : C:\msdchem\1\METHODS\M6P277.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Mon Apr 28 11:39:01 2014
 Response via : Initial Calibration

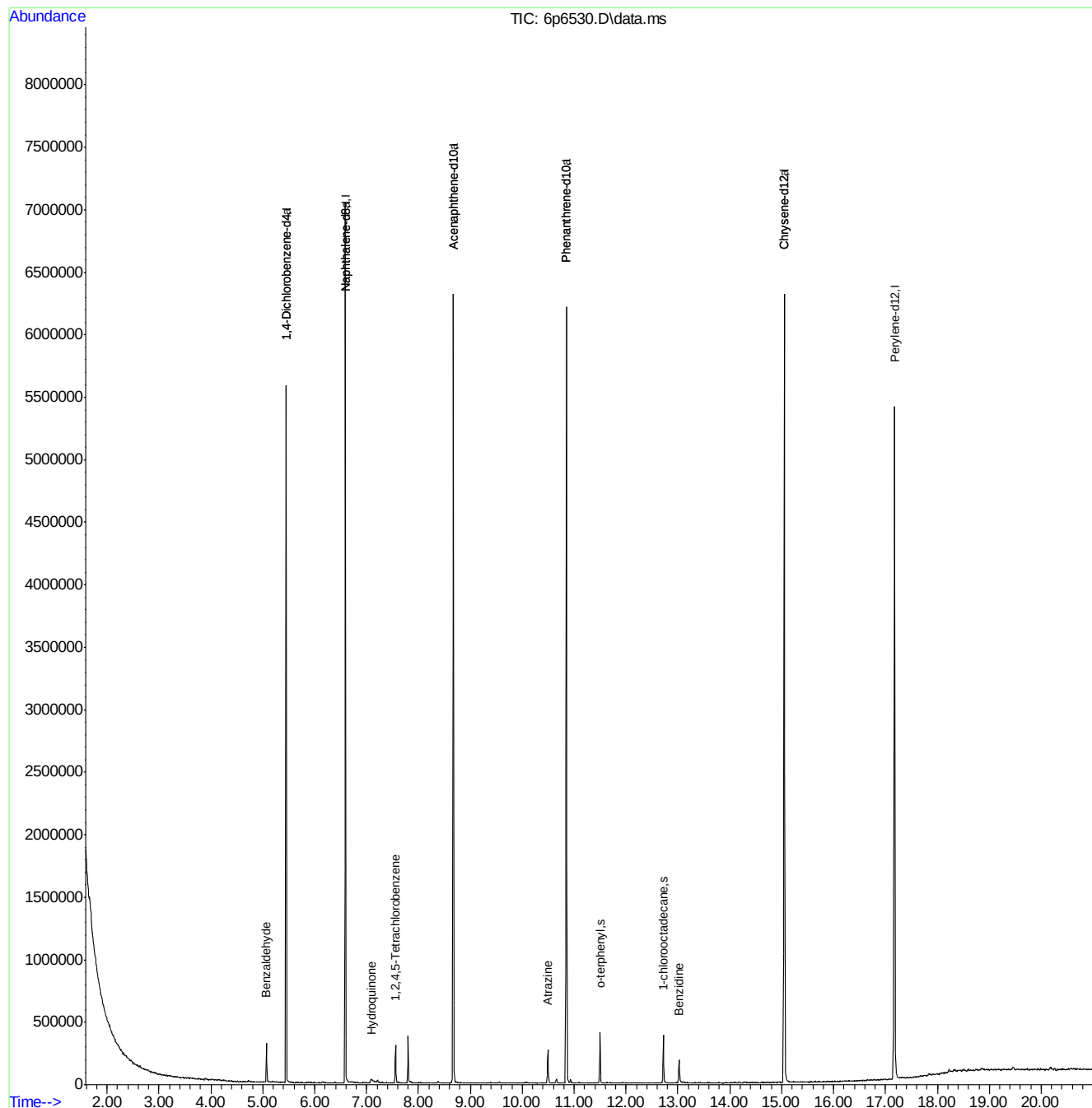
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.449	152	633936	40.00	ppb	-0.08
24) Naphthalene-d8	6.593	136	2480626	40.00	ppb	-0.10
47) Acenaphthene-d10	8.674	164	1459364	40.00	ppb	-0.13
69) Phenanthrene-d10	10.851	188	2430172	40.00	ppb	-0.14
83) Chrysene-d12	15.049	240	2446897	40.00	ppb	-0.16
92) Perylene-d12	17.173	264	2295131	40.00	ppb	-0.17
102) 1,4-Dichlorobenzene-d4a	5.449	152	633936	40.00	ppb	0.00
104) Phenanthrene-d10a	10.851	188	2430172	40.00	ppb	0.00
107) Chrysene-d12a	15.049	240	2446897	40.00	ppb	0.00
110) Acenaphthene-d10a	8.674	164	1459364	40.00	ppb	0.00
112) Naphthalene-d8a	6.593	136	2480626	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
86) Terphenyl-d14	0.000	244	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
106) o-terphenyl	11.498	230	84023	2.57	ppb	0.00
Spiked Amount	50.000		Recovery	=	5.14%	
109) 1-chlorooctadecane	12.717	57	49581	2.47	ppb	0.00
Spiked Amount	50.000		Recovery	=	4.94%	
Target Compounds						
103) Benzaldehyde	5.069	105	53024	2.50	ppb	Qvalue 89
105) Atrazine	10.492	215	14953	2.23	ppb	# 70
108) Benzidine	13.022	184	86599	2.18	ppb	94
111) 1,2,4,5-Tetrachloroben...	7.556	216	45212	2.51	ppb	97
113) Hydroquinone	7.091	110	45493m	1.68	ppb	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p276\
Data File : 6p6530.D
Acq On : 26 Apr 2014 2:14 pm
Operator : ashleyd
Sample : ic276-2
Misc : op73158,e6p276
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 28 11:46:29 2014
Quant Method : C:\msdchem\1\METHODS\M6P277.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Mon Apr 28 11:39:01 2014
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: E6P276-IC276

Method: SW846 8270D

Lab FileID: 6P6530.D

Analyst approved: 04/28/14 13:34 Emily Pisarski

Injection Time: 04/26/14 14:14

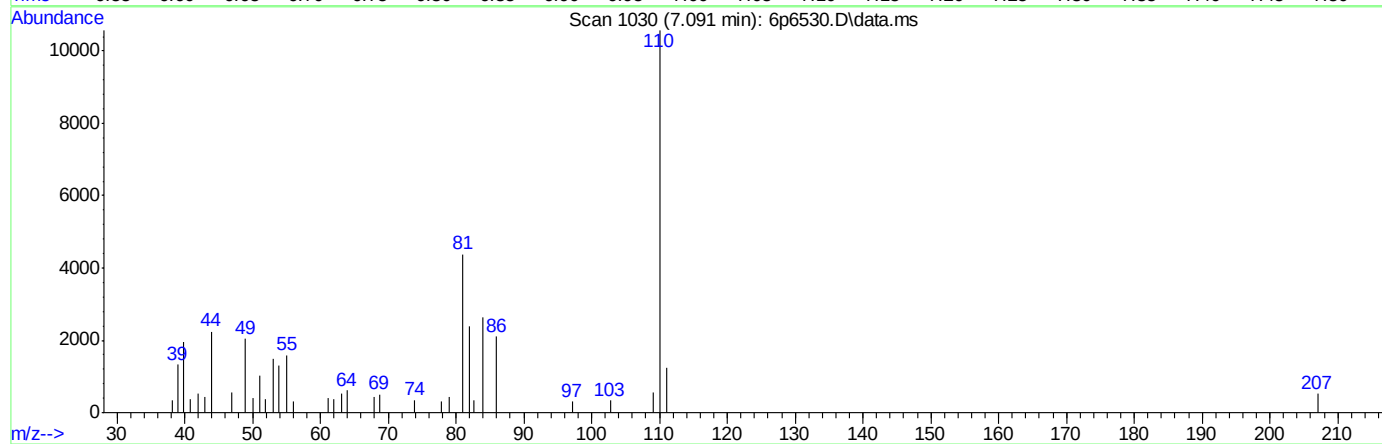
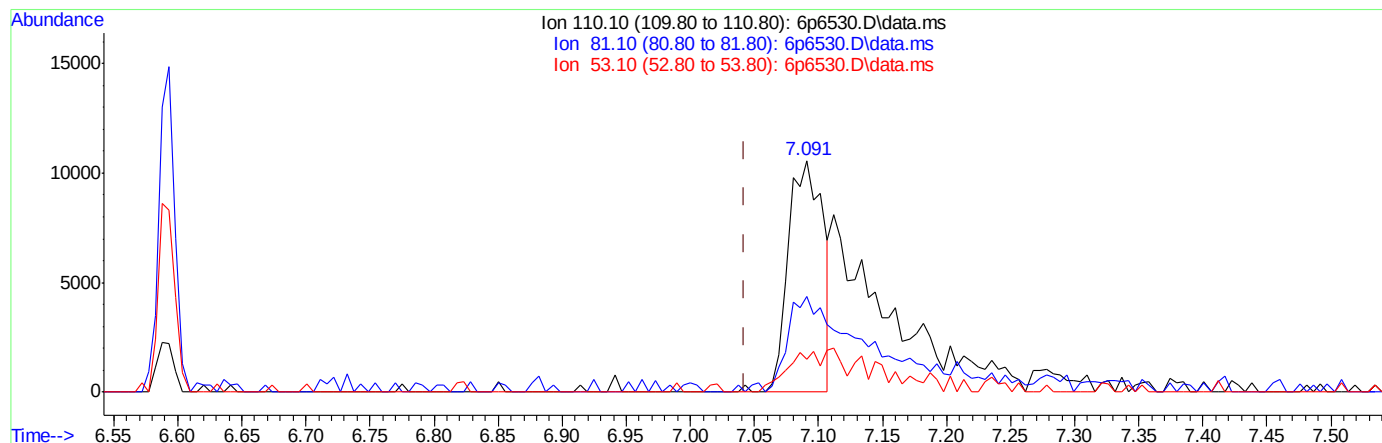
Supervisor approved: 04/28/14 15:16 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
Hydroquinone	123-31-9		7.09	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\6p276\
Data File : 6p6530.D
Acq On : 26 Apr 2014 2:14 pm
Operator : ashleyd
Sample : ic276-2
Misc : op73158,e6p276
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 28 11:39:41 2014
Quant Method : C:\msdchem\1\METHODS\M6P277.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Mon Apr 28 11:39:01 2014
Response via : Initial Calibration



(113) Hydroquinone

7.091min (+0.048) 0.73ppb

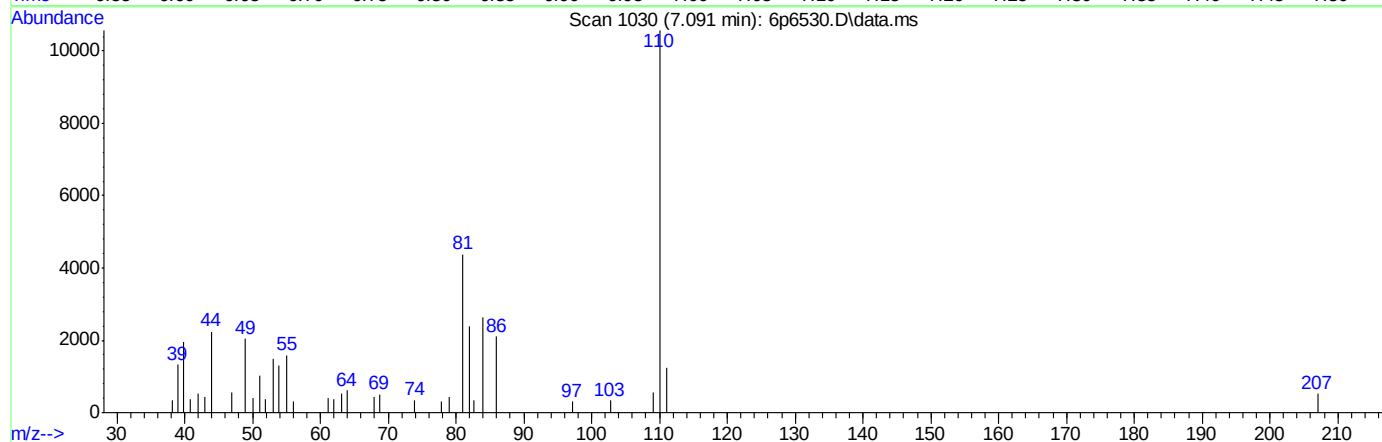
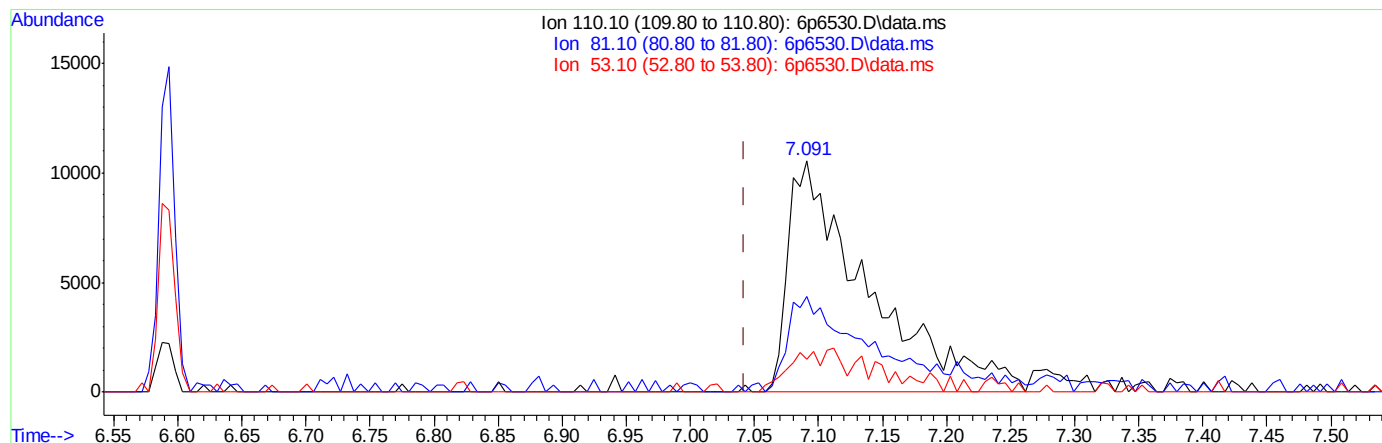
response 19794

Ion	Exp%	Act%
110.10	100	100
81.10	27.60	39.84
53.10	17.40	5.43
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\6p276\
Data File : 6p6530.D
Acq On : 26 Apr 2014 2:14 pm
Operator : ashleyd
Sample : ic276-2
Misc : op73158,e6p276
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 28 11:46:29 2014
Quant Method : C:\msdchem\1\METHODS\M6P277.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Mon Apr 28 11:39:01 2014
Response via : Initial Calibration



(113) Hydroquinone

7.091min (+0.048) 1.68ppb m

response 45493

Ion	Exp%	Act%
110.10	100	100
81.10	27.60	41.42
53.10	17.40	14.21
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p276\
 Data File : 6p6531.D
 Acq On : 26 Apr 2014 2:42 pm
 Operator : ashleyd
 Sample : ic276-1
 Misc : op73158,e6p276
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 28 11:47:24 2014
 Quant Method : C:\msdchem\1\METHODS\M6P277.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Mon Apr 28 11:39:01 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.449	152	606347	40.00	ppb	-0.08
24) Naphthalene-d8	6.593	136	2453811	40.00	ppb	-0.10
47) Acenaphthene-d10	8.674	164	1403417	40.00	ppb	-0.13
69) Phenanthrene-d10	10.851	188	2338275	40.00	ppb	-0.14
83) Chrysene-d12	15.049	240	2378501	40.00	ppb	-0.16
92) Perylene-d12	17.173	264	2232028	40.00	ppb	-0.17
102) 1,4-Dichlorobenzene-d4a	5.449	152	606347	40.00	ppb	0.00
104) Phenanthrene-d10a	10.851	188	2338275	40.00	ppb	0.00
107) Chrysene-d12a	15.049	240	2378501	40.00	ppb	0.00
110) Acenaphthene-d10a	8.674	164	1403417	40.00	ppb	0.00
112) Naphthalene-d8a	6.593	136	2453811	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
86) Terphenyl-d14	0.000	244	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
106) o-terphenyl	11.498	230	36025	1.14	ppb	0.00
Spiked Amount	50.000		Recovery	=	2.28%	
109) 1-chlorooctadecane	12.717	57	20262	1.04	ppb	0.00
Spiked Amount	50.000		Recovery	=	2.08%	
Target Compounds						Qvalue
103) Benzaldehyde	5.069	105	21683	1.07	ppb	# 83
105) Atrazine	10.492	215	6664	1.03	ppb	# 76
108) Benzidine	13.022	184	29987	0.78	ppb	96
111) 1,2,4,5-Tetrachloroben...	7.556	216	19533	1.13	ppb	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

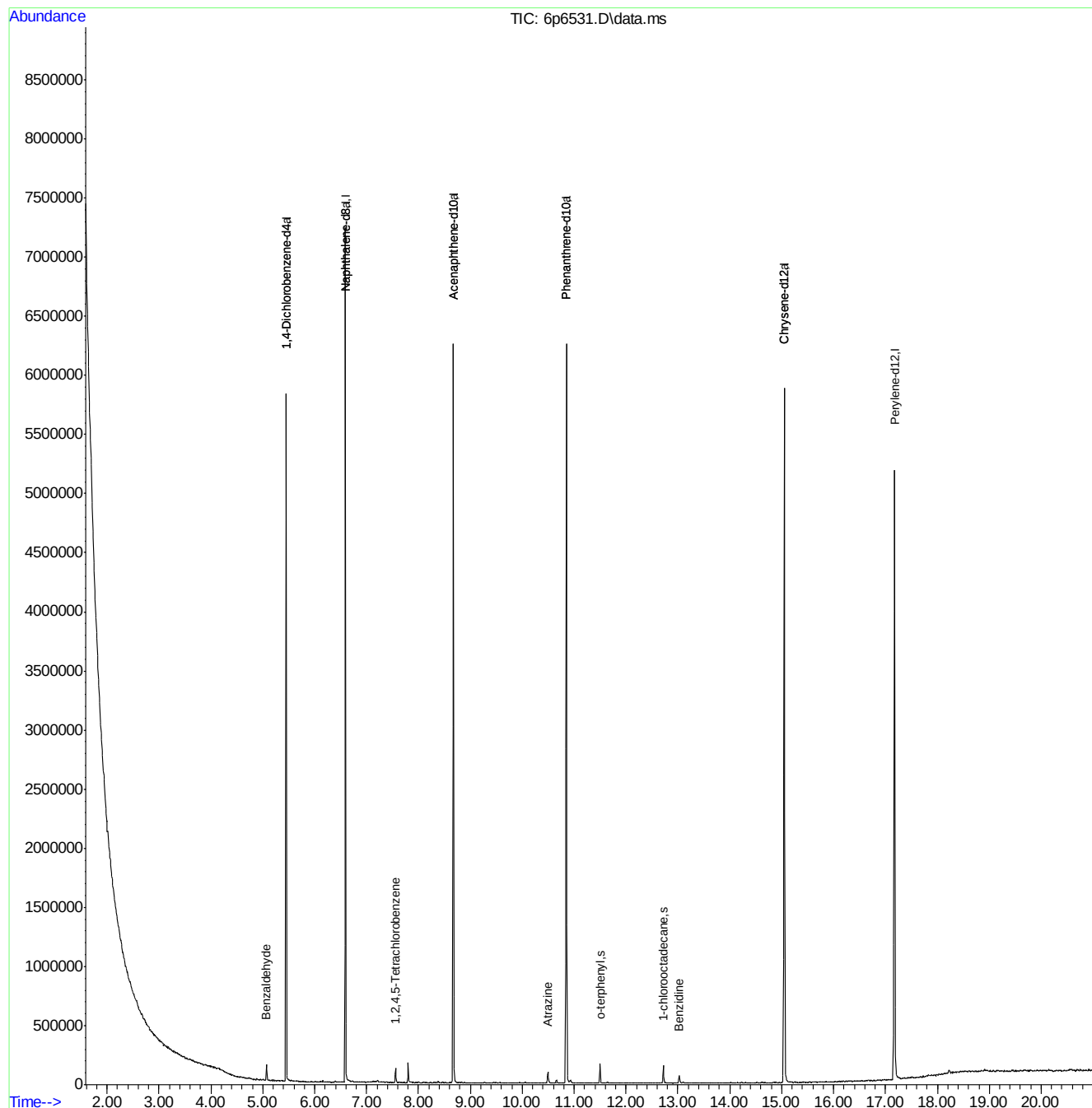
9.6.36

9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p276\
Data File : 6p6531.D
Acq On : 26 Apr 2014 2:42 pm
Operator : ashleyd
Sample : ic276-1
Misc : op73158,e6p276
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 28 11:47:24 2014
Quant Method : C:\msdchem\1\METHODS\M6P277.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Mon Apr 28 11:39:01 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p277\
 Data File : 6p6542.D
 Acq On : 27 Apr 2014 12:54 pm
 Operator : ashleyd
 Sample : ic277-1.0
 Misc : op73158,e6p277
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 28 09:47:35 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Mon Apr 28 09:22:17 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.529	152	986060	40.00	ppb	0.00
24) Naphthalene-d8	6.695	136	3904987	40.00	ppb	0.00
47) Acenaphthene-d10	8.802	164	2264049	40.00	ppb	0.00
69) Phenanthrene-d10	10.995	188	3725538	40.00	ppb	0.00
83) Chrysene-d12	15.215	240	3713793	40.00	ppb	0.00
92) Perylene-d12	17.344	264	3318902	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	5.529	152	986060	40.00	ppb	0.00
104) Phenanthrene-d10a	10.995	188	3725538	40.00	ppb	0.00
107) Chrysene-d12a	15.215	240	3713793	40.00	ppb	0.00
110) Acenaphthene-d10a	8.802	164	2264049	40.00	ppb	0.00
112) Naphthalene-d8a	6.695	136	3904987	40.00	ppb	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	4.347	112	30536	0.83	ppb	0.00
Spiked Amount	50.000		Recovery	=	1.66%	
8) Phenol-d5	5.256	99	43055	0.85	ppb	0.00
Spiked Amount	50.000		Recovery	=	1.70%	
25) Nitrobenzene-d5	6.015	82	47481	0.96	ppb	0.00
Spiked Amount	50.000		Recovery	=	1.92%	
51) 2-Fluorobiphenyl	7.920	172	61491	0.96	ppb	0.00
Spiked Amount	50.000		Recovery	=	1.92%	
73) 2,4,6-Tribromophenol	9.947	330	6452	0.61	ppb	0.00
Spiked Amount	50.000		Recovery	=	1.22%	
86) Terphenyl-d14	13.573	244	64709	0.91	ppb	0.00
Spiked Amount	50.000		Recovery	=	1.82%	
106) o-terphenyl	0.000	230	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
109) 1-chlorooctadecane	0.000	57	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	

Target Compounds						Qvalue
2) 1,4-Dioxane	2.111	88	18469	1.16	ppb	80
3) Pyridine	2.560	79	36243m	0.82	ppb	
4) N-Nitrosodimethylamine	2.485	74	24235	0.93	ppb	97
6) Indene	5.753	116	60267	1.01	ppb	94
7) Cumene	4.823	105	98091	1.04	ppb	98
9) Phenol	5.267	94	51015	0.93	ppb	79
10) Aniline	5.256	93	65439	1.27	ppb	75
11) bis(2-Chloroethyl)ether	5.315	93	39485	1.03	ppb	96
12) 2-Chlorophenol	5.358	128	29981	0.92	ppb	90
13) Decane	5.411	43	22596	1.03	ppb	77
14) 1,3-Dichlorobenzene	5.481	146	33139	0.98	ppb	93
15) 1,4-Dichlorobenzene	5.545	146	34214	1.01	ppb	88
16) Benzyl alcohol	5.662	108	19900	0.85	ppb	88
17) 1,2-Dichlorobenzene	5.678	146	32464	1.05	ppb	98
18) Acetophenone	5.882	105	55031	0.99	ppb	89
19) 2-Methylphenol	5.775	108	28600	0.89	ppb	98
20) 2,2'-oxybis(1-Chloropr...	5.780	121	11872	1.09	ppb	# 40
21) 3&4-Methylphenol	5.908	108	28586	0.79	ppb	88

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p277\
 Data File : 6p6542.D
 Acq On : 27 Apr 2014 12:54 pm
 Operator : ashleyd
 Sample : ic277-1.0
 Misc : op73158,e6p277
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 28 09:47:35 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Mon Apr 28 09:22:17 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
22) n-Nitroso-di-n-propyla...	5.887	70	32115	1.11	ppb	88
23) Hexachloroethane	5.973	201	11392	1.02	ppb	85
26) Nitrobenzene	6.031	77	49369	1.00	ppb	94
27) Quinoline	7.069	129	56494	0.87	ppb	96
28) Isophorone	6.251	82	74592	0.91	ppb	96
29) 2-Nitrophenol	6.331	139	13228	0.79	ppb	79
30) 2,4-Dimethylphenol	6.384	107	27883	0.71	ppb	96
32) bis(2-Chloroethoxy)met...	6.459	93	43560	0.95	ppb	98
33) 2,4-Dichlorophenol	6.577	162	18212	0.74	ppb	95
34) 2,6-Dichlorophenol	6.791	162	20746	0.86	ppb	97
35) 1,3,5-Trichlorobenzene	6.336	180	28303	1.04	ppb	87
36) 1,2,4-Trichlorobenzene	6.641	180	26886	1.01	ppb	98
37) 1,2,3-Trichlorobenzene	6.871	180	27045	1.04	ppb	94
38) Naphthalene	6.716	128	95052	1.02	ppb	98
39) 4-Chloroaniline	6.780	127	36813	0.96	ppb	92
40) 2,3-Dichloroaniline	7.813	161	27529	0.88	ppb	99
41) Caprolactam	7.117	55	9423	0.72	ppb	# 56
42) Hexachlorobutadiene	6.855	225	14503	0.96	ppb	100
43) 4-Chloro-3-methylphenol	7.320	107	30260	0.82	ppb	93
44) 2-Methylnaphthalene	7.470	141	51567	0.97	ppb	91
45) 1-Methylnaphthalene	7.588	141	51562	0.98	ppb	89
46) Dimethylnaphthalene	8.246	156	53167	0.93	ppb	93
48) Hexachlorocyclopentadiene	7.668	237	14662	0.88	ppb	88
49) 2,4,6-Trichlorophenol	7.823	196	15527	0.88	ppb	97
50) 2,4,5-Trichlorophenol	7.882	196	12979	0.68	ppb	82
52) 2-Chloronaphthalene	8.059	162	56355	1.00	ppb	94
53) Biphenyl	8.043	154	73723	0.97	ppb	98
54) 2-Nitroaniline	8.203	65	21007	0.80	ppb	94
55) Dimethylphthalate	8.454	163	59799	0.92	ppb	98
56) Acenaphthylene	8.604	152	85854	0.91	ppb	99
57) 2,6-Dinitrotoluene	8.529	165	12382	0.81	ppb	94
58) 3-Nitroaniline	8.759	138	13316	0.77	ppb	# 70
59) Acenaphthene	8.845	153	59029	1.00	ppb	90
62) Dibenzofuran	9.091	168	77859	0.97	ppb	96
63) 2,4-Dinitrotoluene	9.091	165	15428	0.73	ppb	# 57
64) 2,3,4,6-Tetrachlorophenol	9.294	232	9169	0.59	ppb	94
65) Diethylphthalate	9.460	149	62858	0.90	ppb	97
66) Fluorene	9.583	166	62420	0.93	ppb	98
67) 4-Chlorophenyl-phenyle...	9.599	204	28573	0.99	ppb	94
68) 4-Nitroaniline	9.636	138	11762	0.66	ppb	93
71) n-Nitrosodiphenylamine	9.781	169	39953	0.88	ppb	89
72) 1,2-Diphenylhydrazine	9.834	77	95017	0.95	ppb	98
74) 4-Bromophenyl-phenylether	10.332	248	16178	0.96	ppb	97
75) Hexachlorobenzene	10.417	284	19475	0.97	ppb	87
76) Pentachlorophenol	10.744	266	1650	0.14	ppb	80
77) Phenanthrene	11.027	178	101248	1.08	ppb	96
78) Anthracene	11.107	178	91962	0.96	ppb	99
79) Carbazole	11.385	167	80723	0.88	ppb	99
80) Di-n-butylphthalate	12.017	149	97229	0.84	ppb	98
81) Fluoranthene	12.904	202	95002	0.93	ppb	94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p277\
 Data File : 6p6542.D
 Acq On : 27 Apr 2014 12:54 pm
 Operator : ashleyd
 Sample : ic277-1.0
 Misc : op73158,e6p277
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 28 09:47:35 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Mon Apr 28 09:22:17 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
82) Octadecane	10.947	57	42408	1.03	ppb	94
84) Pyrene	13.252	202	101978	0.96	ppb	96
85) Butyl stearate	14.584	56	19188	0.73	ppb	75
87) Butylbenzylphthalate	14.407	149	41745	0.78	ppb	93
88) Benzo[a]anthracene	15.194	228	98632	1.05	ppb	98
89) 3,3'-Dichlorobenzidine	15.204	252	25386	0.73	ppb	71
90) Chrysene	15.247	228	87603	0.99	ppb	98
91) bis(2-Ethylhexyl)phtha...	15.381	149	54595	0.75	ppb	99
93) Di-n-octylphthalate	16.370	149	84947	0.67	ppb	99
94) Benzo[b]fluoranthene	16.809	252	87432	0.84	ppb	92
95) Benzo[k]fluoranthene	16.846	252	80928	0.91	ppb	92
96) Benzo[a]pyrene	17.253	252	75603	0.88	ppb	97
97) Indeno[1,2,3-cd]pyrene	18.660	276	65778m	0.66	ppb	
98) Dibenz(a,h)acridine	18.381	279	59239	0.75	ppb	92
99) Dibenz[a,h]anthracene	18.692	278	67590	0.76	ppb	89
100) 7,12-Dimethylbenz(a)an...	16.809	256	22851	0.50	ppb	96
101) Benzo[g,h,i]perylene	19.013	276	73539	0.86	ppb	85

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Manual Integration Approval Summary

Sample Number: E6P277-IC277

Method: SW846 8270D

Lab FileID: 6P6542.D

Analyst approved: 04/28/14 13:35 Emily Pisarski

Injection Time: 04/27/14 12:54

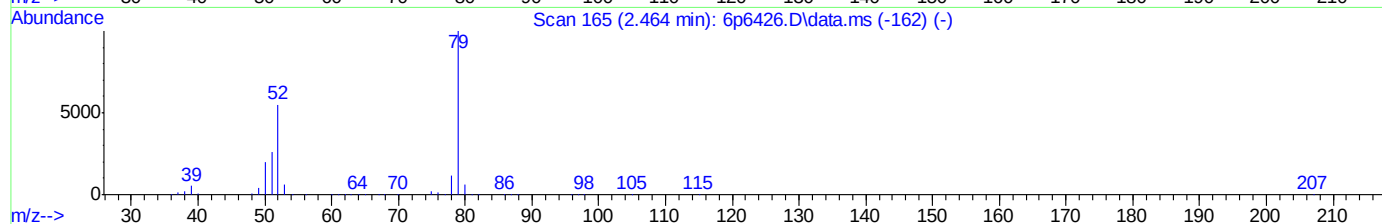
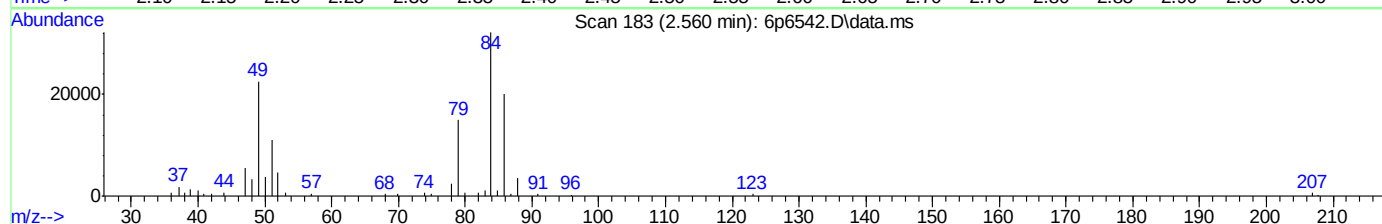
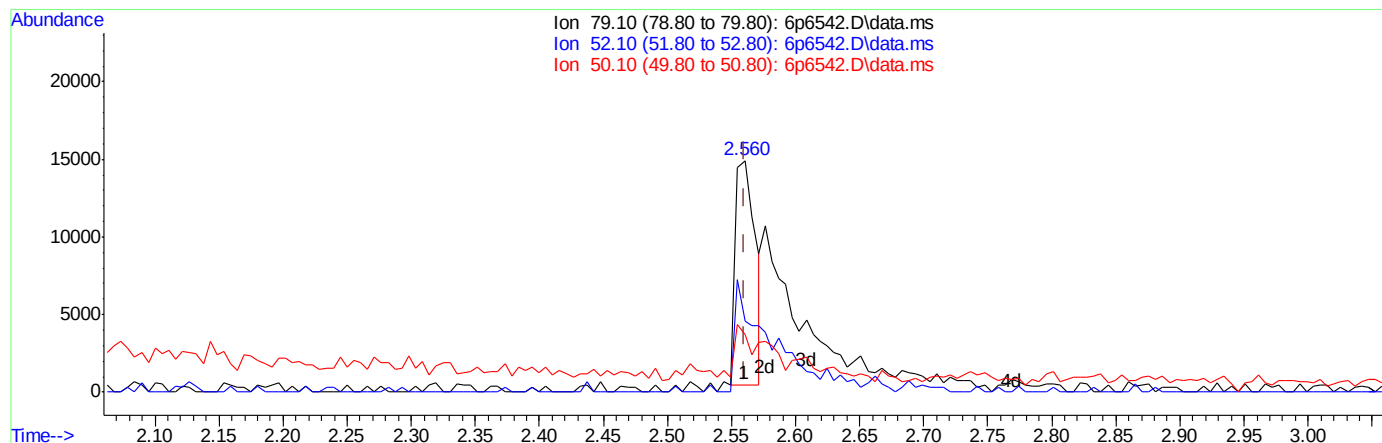
Supervisor approved: 04/28/14 15:39 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
Pyridine	110-86-1		2.56	Poor instrument integration
Indeno(1,2,3-cd)pyrene	193-39-5		18.66	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p277\
Data File : 6p6542.D
Acq On : 27 Apr 2014 12:54 pm
Operator : ashleyd
Sample : ic277-1.0
Misc : op73158,e6p277
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 28 09:03:29 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Mon Apr 28 09:03:23 2014
Response via : Initial Calibration



TIC: 6p6542.D\data.ms

(3) Pyridine (t)

2.560min (0.000) 0.39ppb

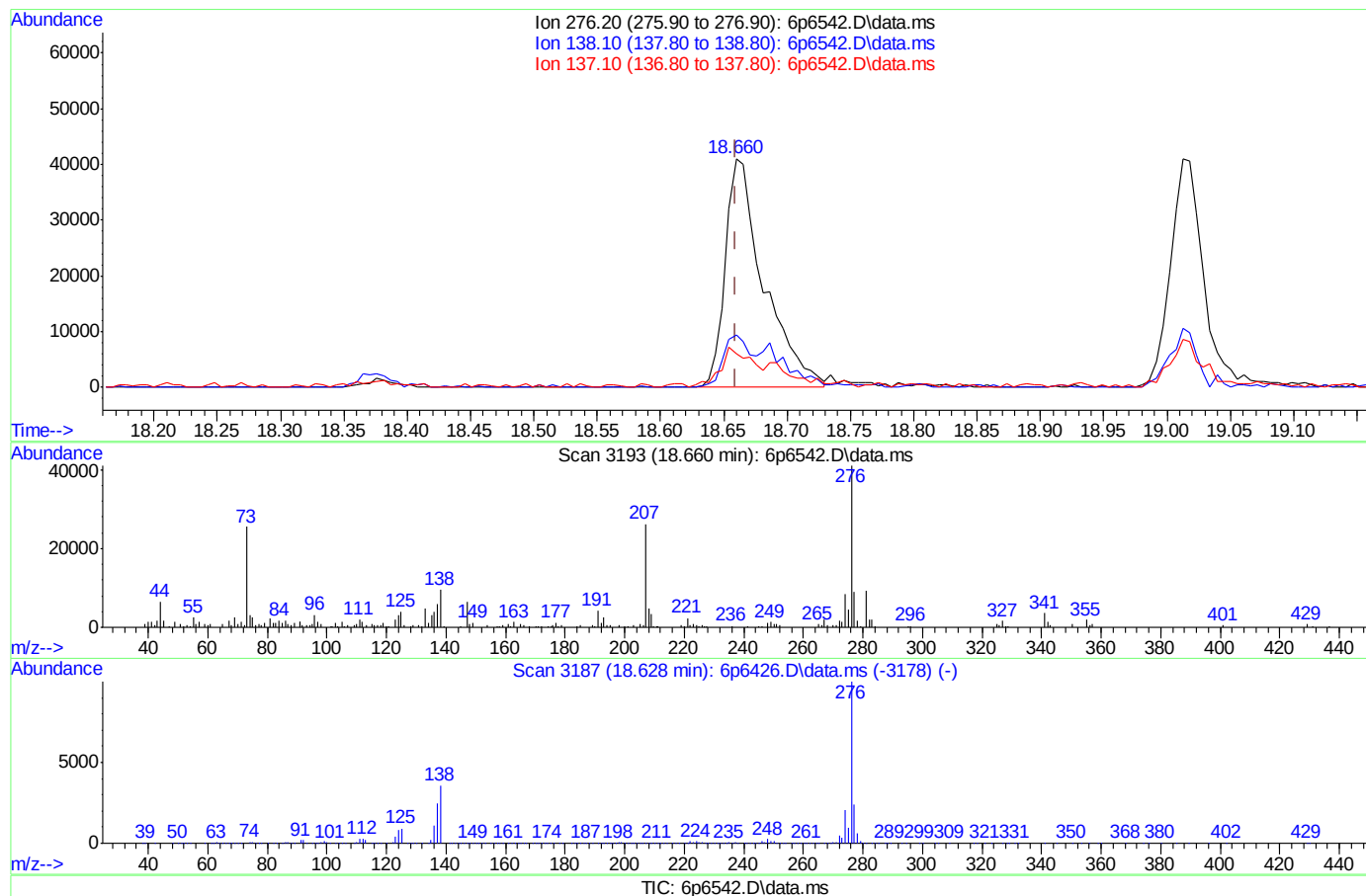
response 15312

Ion	Exp%	Act%
79.10	100	100
52.10	55.00	23.65#
50.10	20.20	16.06
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\6p277\
Data File : 6p6542.D
Acq On : 27 Apr 2014 12:54 pm
Operator : ashleyd
Sample : ic277-1.0
Misc : op73158,e6p277
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 28 09:22:22 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Mon Apr 28 09:22:17 2014
Response via : Initial Calibration



(97) Indeno[1,2,3-cd]pyrene (t)

18.660min (0.000) 0.87ppb

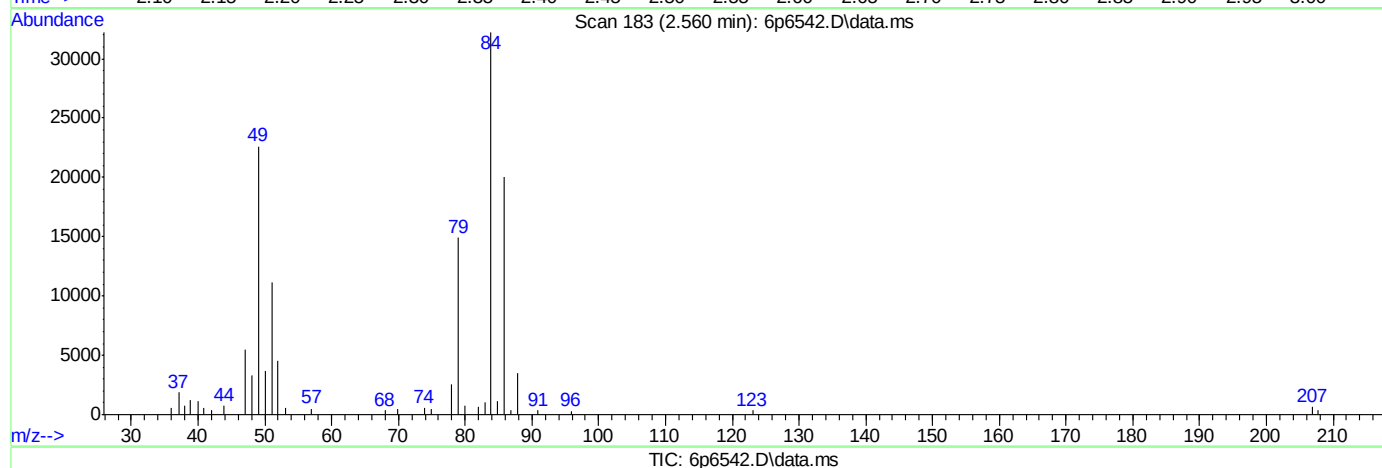
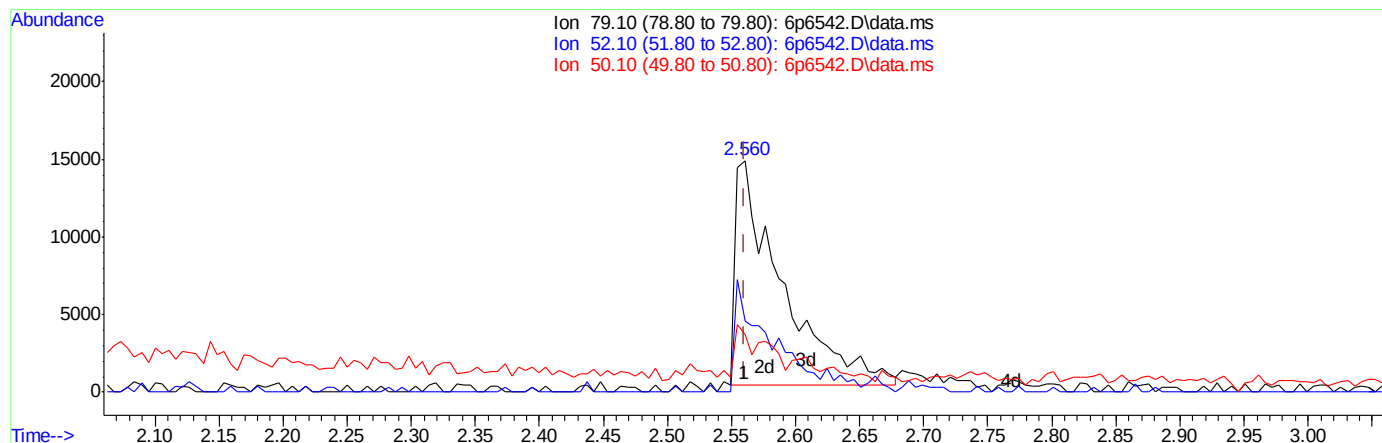
response 86014

Ion	Exp%	Act%
276.20	100	100
138.10	30.30	22.89
137.10	22.30	13.28
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\6p277\
Data File : 6p6542.D
Acq On : 27 Apr 2014 12:54 pm
Operator : ashleyd
Sample : ic277-1.0
Misc : op73158,e6p277
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 28 09:47:35 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Mon Apr 28 09:22:17 2014
Response via : Initial Calibration



(3) Pyridine (t)

2.560min (0.000) 0.82ppb m

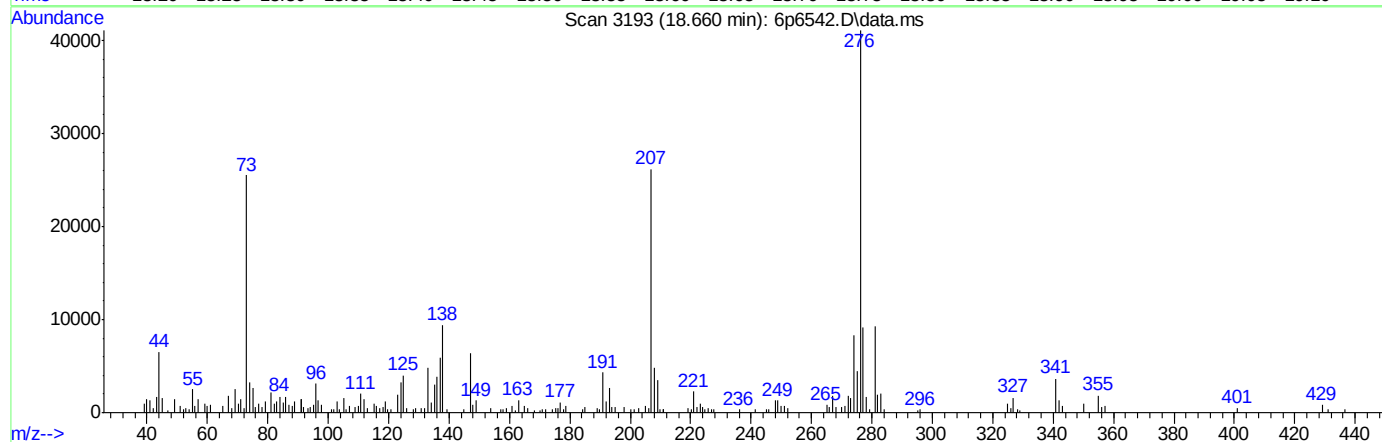
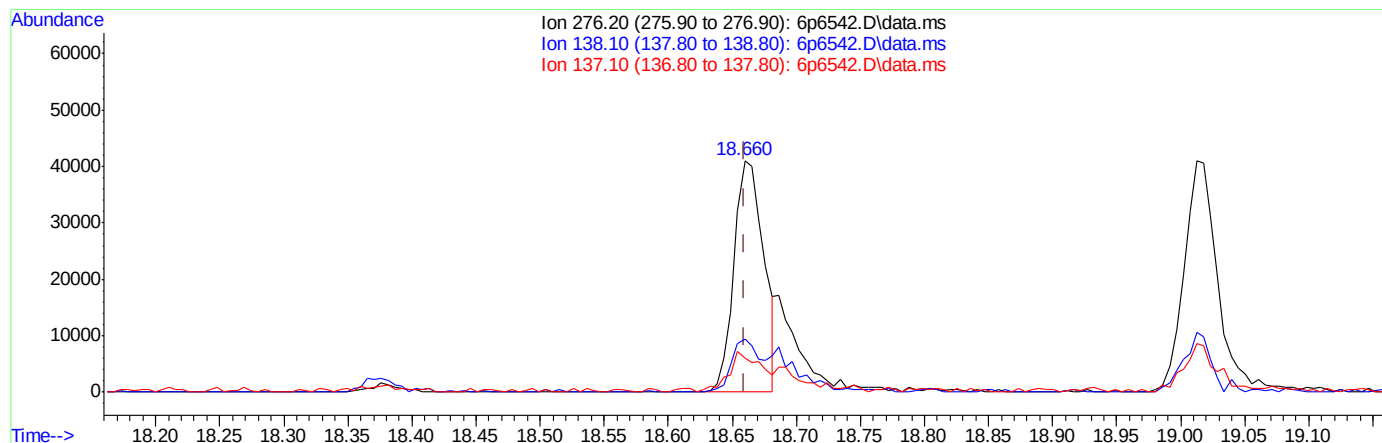
response 36243

Ion	Exp%	Act%
79.10	100	100
52.10	55.00	30.68
50.10	20.20	24.86
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\6p277\
Data File : 6p6542.D
Acq On : 27 Apr 2014 12:54 pm
Operator : ashleyd
Sample : ic277-1.0
Misc : op73158,e6p277
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 28 09:47:35 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Mon Apr 28 09:22:17 2014
Response via : Initial Calibration



(97) Indeno[1,2,3-cd]pyrene (t)

18.660min (0.000) 0.66ppb m

response 65778

Ion	Exp%	Act%
276.20	100	100
138.10	30.30	23.03
137.10	22.30	14.52
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p277\
 Data File : 6p6543.D
 Acq On : 27 Apr 2014 1:22 pm
 Operator : ashleyd
 Sample : ic277-100
 Misc : op73158,e6p277
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 28 09:16:02 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Mon Apr 28 09:13:41 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.534	152	782238	40.00	ppb	0.00
24) Naphthalene-d8	6.700	136	3083228	40.00	ppb	0.00
47) Acenaphthene-d10	8.807	164	1811403	40.00	ppb	0.00
69) Phenanthrene-d10	11.000	188	3040937	40.00	ppb	0.00
83) Chrysene-d12	15.220	240	3067770	40.00	ppb	0.00
92) Perylene-d12	17.344	264	2743145	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	5.534	152	782238	40.00	ppb	0.00
104) Phenanthrene-d10a	11.000	188	3040937	40.00	ppb	0.00
107) Chrysene-d12a	15.220	240	3067770	40.00	ppb	0.00
110) Acenaphthene-d10a	8.807	164	1811403	40.00	ppb	0.00
112) Naphthalene-d8a	6.700	136	3083228	40.00	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol	4.347	112	2910731	100.00	ppb	0.00
Spiked Amount	50.000		Recovery	=	200.00%	
8) Phenol-d5	5.267	99	4002999	100.00	ppb	0.00
Spiked Amount	50.000		Recovery	=	200.00%	
25) Nitrobenzene-d5	6.026	82	3898907	100.00	ppb	0.00
Spiked Amount	50.000		Recovery	=	200.00%	
51) 2-Fluorobiphenyl	7.925	172	5142281	100.00	ppb	0.00
Spiked Amount	50.000		Recovery	=	200.00%	
73) 2,4,6-Tribromophenol	9.952	330	868349	100.00	ppb	0.00
Spiked Amount	50.000		Recovery	=	200.00%	
86) Terphenyl-d14	13.578	244	5903248	100.00	ppb	0.00
Spiked Amount	50.000		Recovery	=	200.00%	
106) o-terphenyl	0.000	230	0d	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
109) 1-chlorooctadecane	0.000	57	0d	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	

Target Compounds

Qvalue

2) 1,4-Dioxane	2.100	88	1258793	100.00	ppb	86
3) Pyridine	2.496	79	3502580	100.00	ppb	81
4) N-Nitrosodimethylamine	2.464	74	2065281	100.00	ppb	98
6) Indene	5.753	116	4727308	100.00	ppb	100
7) Cumene	4.823	105	7499695	100.00	ppb	97
9) Phenol	5.277	94	4364383	100.00	ppb	86
10) Aniline	5.256	93	4083704	100.00	ppb	77
11) bis(2-Chloroethyl)ether	5.325	93	3045808	100.00	ppb	91
12) 2-Chlorophenol	5.363	128	2571925	100.00	ppb	87
13) Decane	5.416	43	1743292	100.00	ppb	92
14) 1,3-Dichlorobenzene	5.486	146	2671889	100.00	ppb	97
15) 1,4-Dichlorobenzene	5.545	146	2683983	100.00	ppb	99
16) Benzyl alcohol	5.673	108	1858906	100.00	ppb	93
17) 1,2-Dichlorobenzene	5.678	146	2456079	100.00	ppb	98
18) Acetophenone	5.892	105	4391375	100.00	ppb	90
19) 2-Methylphenol	5.780	108	2557566	100.00	ppb	96
20) 2,2'-oxybis(1-Chloropr...	5.780	121	860556	100.00	ppb	# 48
21) 3&4-Methylphenol	5.914	108	2877049	100.00	ppb	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p277\
 Data File : 6p6543.D
 Acq On : 27 Apr 2014 1:22 pm
 Operator : ashleyd
 Sample : ic277-100
 Misc : op73158,e6p277
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 28 09:16:02 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Mon Apr 28 09:13:41 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
22) n-Nitroso-di-n-propyla...	5.903	70	2299854	100.00	ppb	94
23) Hexachloroethane	5.973	201	886777	100.00	ppb	89
26) Nitrobenzene	6.042	77	3913636	100.00	ppb	98
27) Quinoline	7.085	129	5106106	100.00	ppb	97
28) Isophorone	6.261	82	6504580	100.00	ppb	98
29) 2-Nitrophenol	6.336	139	1326682	100.00	ppb	74
30) 2,4-Dimethylphenol	6.390	107	3110594	100.00	ppb	96
31) Benzoic Acid	6.550	105	2259475m	99.99	ppb	
32) bis(2-Chloroethoxy)met...	6.470	93	3604508	100.00	ppb	96
33) 2,4-Dichlorophenol	6.577	162	1953141	100.00	ppb	97
34) 2,6-Dichlorophenol	6.796	162	1899037	100.00	ppb	99
35) 1,3,5-Trichlorobenzene	6.342	180	2143820	100.00	ppb	99
36) 1,2,4-Trichlorobenzene	6.647	180	2092164	100.00	ppb	98
37) 1,2,3-Trichlorobenzene	6.877	180	2055085	100.00	ppb	99
38) Naphthalene	6.721	128	7334936	100.00	ppb	98
39) 4-Chloroaniline	6.786	127	3034863	100.00	ppb	98
40) 2,3-Dichloroaniline	7.818	161	2480266	100.00	ppb	95
41) Caprolactam	7.214	55	1036760	100.00	ppb	# 78
42) Hexachlorobutadiene	6.855	225	1194698	100.00	ppb	99
43) 4-Chloro-3-methylphenol	7.331	107	2901314	100.00	ppb	99
44) 2-Methylnaphthalene	7.476	141	4192986	100.00	ppb	99
45) 1-Methylnaphthalene	7.593	141	4154669	100.00	ppb	98
46) Dimethylnaphthalene	8.251	156	4492198	100.00	ppb	99
48) Hexachlorocyclopentadiene	7.673	237	2680458	200.00	ppb	99
49) 2,4,6-Trichlorophenol	7.829	196	1406871	100.00	ppb	98
50) 2,4,5-Trichlorophenol	7.882	196	1521293	100.00	ppb	99
52) 2-Chloronaphthalene	8.069	162	4505270	100.00	ppb	95
53) Biphenyl	8.053	154	6086470	100.00	ppb	99
54) 2-Nitroaniline	8.219	65	2111128	100.00	ppb	97
55) Dimethylphthalate	8.470	163	5198439	100.00	ppb	99
56) Acenaphthylene	8.615	152	7568856	100.00	ppb	99
57) 2,6-Dinitrotoluene	8.545	165	1226238	100.00	ppb	97
58) 3-Nitroaniline	8.775	138	1390019	100.00	ppb	98
59) Acenaphthene	8.856	153	4700137	100.00	ppb	97
60) 2,4-Dinitrophenol	8.925	184	1431494	200.00	ppb	96
61) 4-Nitrophenol	9.059	109	1171098	100.00	ppb	# 65
62) Dibenzofuran	9.102	168	6438958	100.00	ppb	91
63) 2,4-Dinitrotoluene	9.112	165	1694946	100.00	ppb	84
64) 2,3,4,6-Tetrachlorophenol	9.294	232	1245161	100.00	ppb	95
65) Diethylphthalate	9.476	149	5603735	100.00	ppb	100
66) Fluorene	9.594	166	5373914	100.00	ppb	96
67) 4-Chlorophenyl-phenyle...	9.610	204	2301503	100.00	ppb	96
68) 4-Nitroaniline	9.669	138	1426415	100.00	ppb	88
70) 4,6-Dinitro-2-methylph...	9.711	198	1013891	100.00	ppb	95
71) n-Nitrosodiphenylamine	9.797	169	3686656	100.00	ppb	99
72) 1,2-Diphenylhydrazine	9.845	77	8192033	100.00	ppb	96
74) 4-Bromophenyl-phenylether	10.342	248	1380129	100.00	ppb	91
75) Hexachlorobenzene	10.428	284	1635923	100.00	ppb	86
76) Pentachlorophenol	10.744	266	1984831	200.00	ppb	97
77) Phenanthrene	11.043	178	7674028	100.00	ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p277\
 Data File : 6p6543.D
 Acq On : 27 Apr 2014 1:22 pm
 Operator : ashleyd
 Sample : ic277-100
 Misc : op73158,e6p277
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 28 09:16:02 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Mon Apr 28 09:13:41 2014
 Response via : Initial Calibration

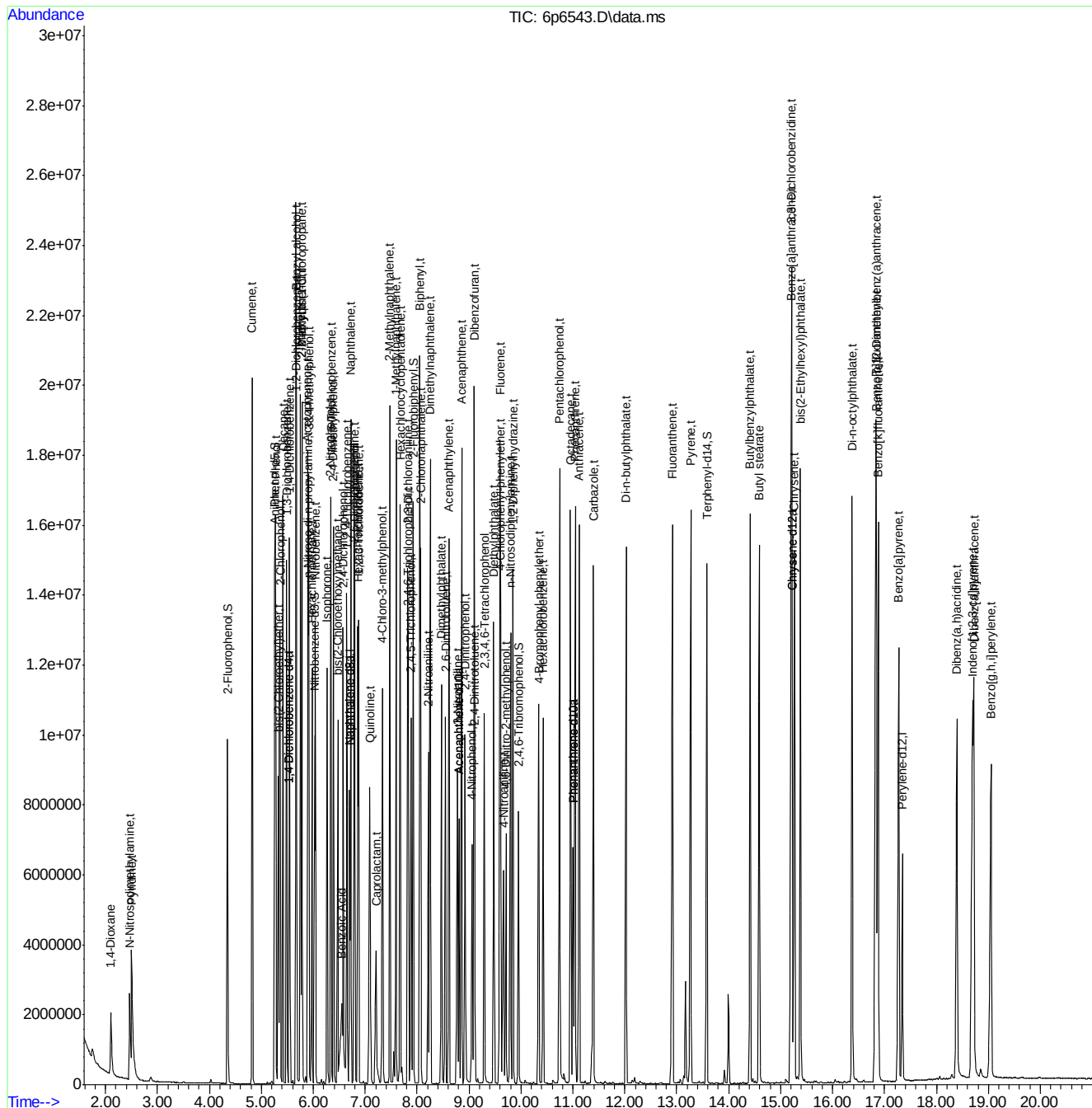
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78) Anthracene	11.118	178	7781253	100.00	ppb	100
79) Carbazole	11.396	167	7497370	100.00	ppb	99
80) Di-n-butylphthalate	12.022	149	9499374	100.00	ppb	99
81) Fluoranthene	12.915	202	8367326	100.00	ppb	94
82) Octadecane	10.952	57	3345758	100.00	ppb	84
84) Pyrene	13.268	202	8812552	100.00	ppb	91
85) Butyl stearate	14.584	56	2169993	100.00	ppb	76
87) Butylbenzylphthalate	14.413	149	4427817	100.00	ppb	96
88) Benzo[a]anthracene	15.204	228	7786199	100.00	ppb	98
89) 3,3'-Dichlorobenzidine	15.210	252	2881697	100.00	ppb	98
90) Chrysene	15.269	228	7298994	100.00	ppb	99
91) bis(2-Ethylhexyl)phtha...	15.381	149	6017174	100.00	ppb	98
93) Di-n-octylphthalate	16.376	149	10467706	100.00	ppb	97
94) Benzo[b]fluoranthene	16.841	252	8587072	100.00	ppb	98
95) Benzo[k]fluoranthene	16.879	252	7359083	99.47	ppb	97
96) Benzo[a]pyrene	17.274	252	7137411	100.00	ppb	96
97) Indeno[1,2,3-cd]pyrene	18.692	276	8177017	100.00	ppb	78
98) Dibenz(a,h)acridine	18.398	279	6550992	100.00	ppb	99
99) Dibenz[a,h]anthracene	18.724	278	7339426	100.00	ppb	89
100) 7,12-Dimethylbenz(a)an...	16.836	256	3799075	100.00	ppb	99
101) Benzo[g,h,i]perylene	19.050	276	7105119	100.00	ppb	83

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p277\
Data File : 6p6543.D
Acq On : 27 Apr 2014 1:22 pm
Operator : ashleyd
Sample : ic277-100
Misc : op73158,6p277
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 28 09:16:02 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Mon Apr 28 09:13:41 2014
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: E6P277-IC277

Method: SW846 8270D

Lab FileID: 6P6543.D

Analyst approved: 04/28/14 13:35 Emily Pisarski

Injection Time: 04/27/14 13:22

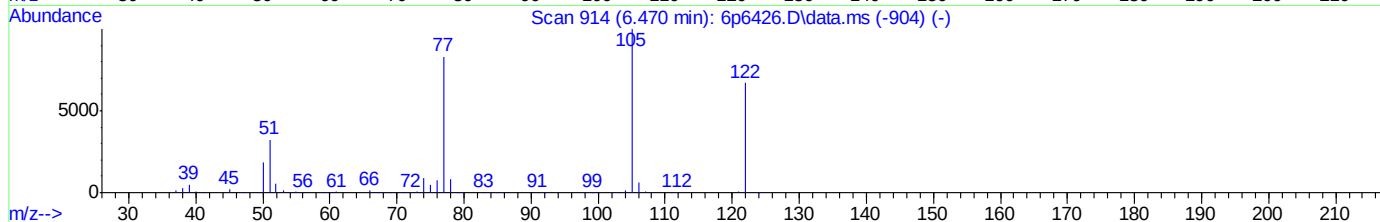
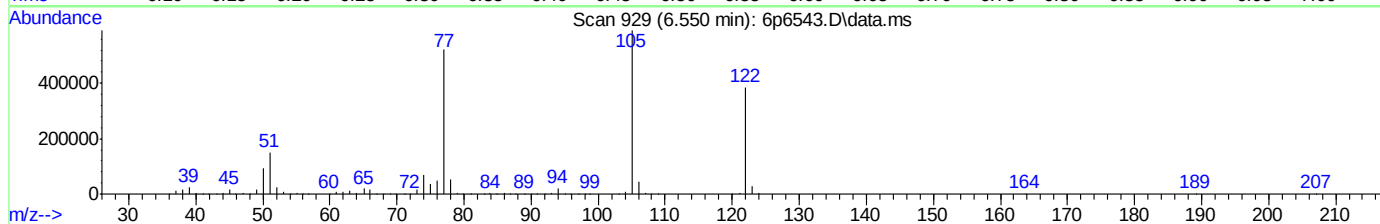
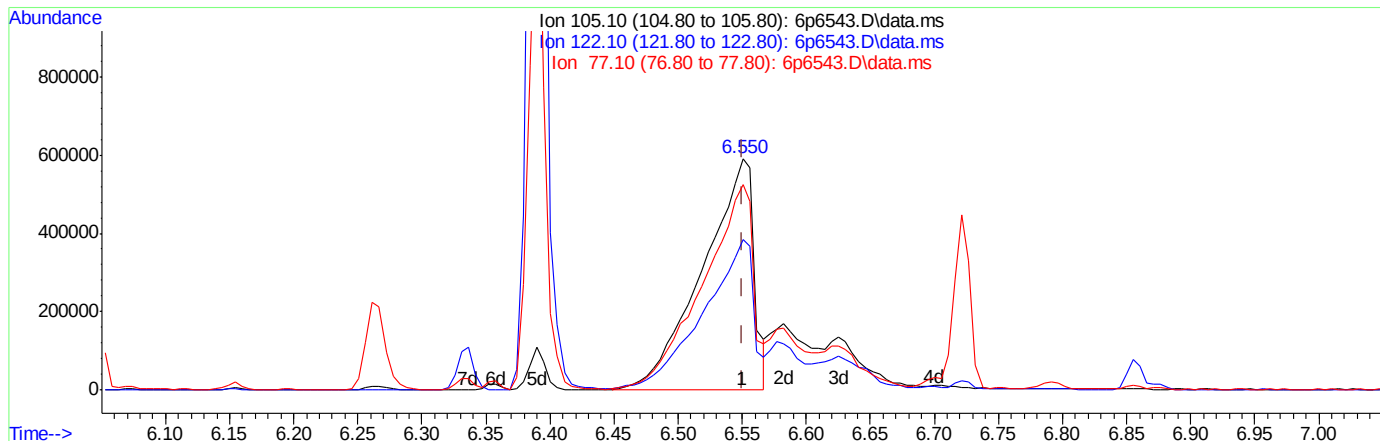
Supervisor approved: 04/28/14 15:39 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic acid	65-85-0		6.55	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\6p277\
Data File : 6p6543.D
Acq On : 27 Apr 2014 1:22 pm
Operator : ashleyd
Sample : ic277-100
Misc : op73158,e6p277
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 28 09:13:46 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Mon Apr 28 09:13:41 2014
Response via : Initial Calibration



TIC: 6p6543.D\data.ms

(31) Benzoic Acid

6.550min (0.000) 71.68ppb

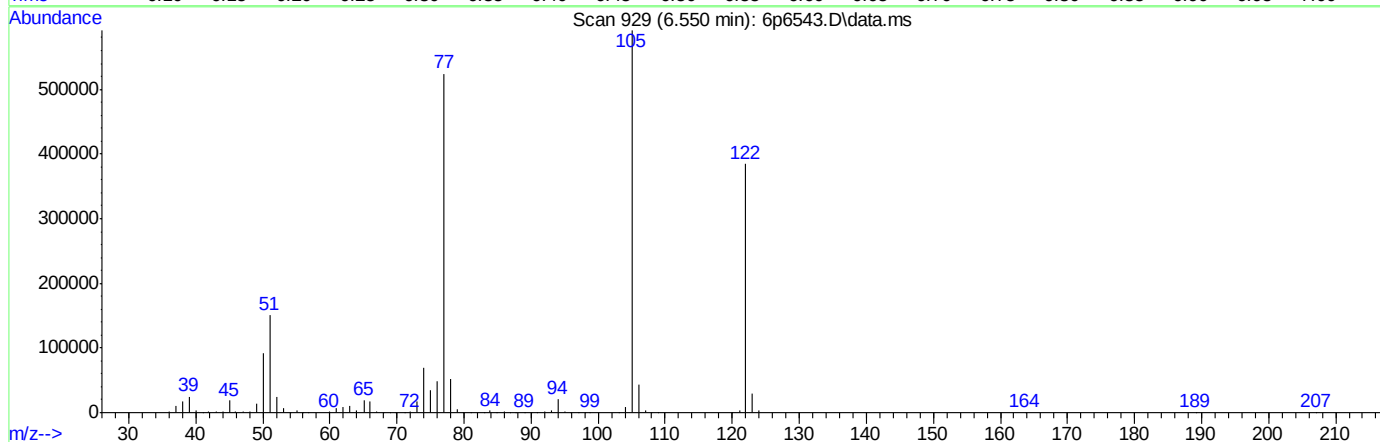
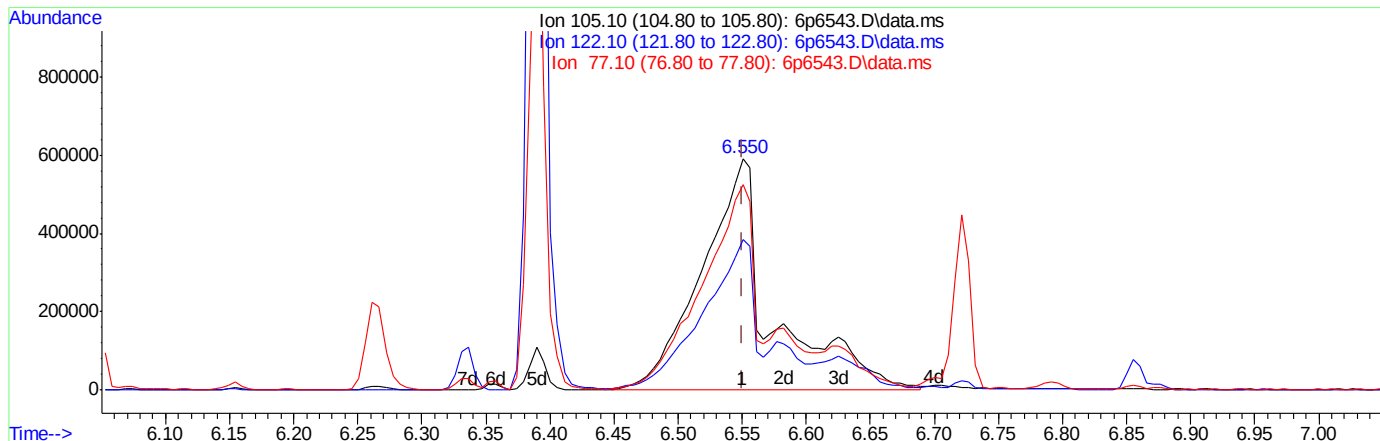
response 1619733

Ion	Exp%	Act%
105.10	100	100
122.10	28.90	63.82#
77.10	33.10	87.85#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p277\
Data File : 6p6543.D
Acq On : 27 Apr 2014 1:22 pm
Operator : ashleyd
Sample : ic277-100
Misc : op73158,e6p277
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 28 09:16:02 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Mon Apr 28 09:13:41 2014
Response via : Initial Calibration



(31) Benzoic Acid

6.550min (0.000) 99.99ppb m

response 2259475

Ion	Exp%	Act%
105.10	100	100
122.10	28.90	45.75
77.10	33.10	62.98#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p277\
 Data File : 6p6544.D
 Acq On : 27 Apr 2014 1:50 pm
 Operator : ashleyd
 Sample : ic277-80
 Misc : op73158,e6p277
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 28 09:34:03 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Mon Apr 28 09:31:56 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.534	152	986931	40.00	ppb	0.00
24) Naphthalene-d8	6.700	136	3901599	40.00	ppb	0.00
47) Acenaphthene-d10	8.808	164	2335400	40.00	ppb	0.00
69) Phenanthrene-d10	11.000	188	3800676	40.00	ppb	0.00
83) Chrysene-d12	15.221	240	3790636	40.00	ppb	0.00
92) Perylene-d12	17.344	264	3401385	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	5.534	152	986931	40.00	ppb	0.00
104) Phenanthrene-d10a	11.000	188	3800676	40.00	ppb	0.00
107) Chrysene-d12a	15.221	240	3790636	40.00	ppb	0.00
110) Acenaphthene-d10a	8.808	164	2335400	40.00	ppb	0.00
112) Naphthalene-d8a	6.700	136	3901599	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	4.347	112	2941722	87.44	ppb	0.00
Spiked Amount 50.000			Recovery	=	174.88%	
8) Phenol-d5	5.267	99	4026985	86.05	ppb	0.00
Spiked Amount 50.000			Recovery	=	172.10%	
25) Nitrobenzene-d5	6.026	82	4013879	82.95	ppb	0.00
Spiked Amount 50.000			Recovery	=	165.90%	
51) 2-Fluorobiphenyl	7.925	172	5323548	82.07	ppb	0.00
Spiked Amount 50.000			Recovery	=	164.14%	
73) 2,4,6-Tribromophenol	9.952	330	884151	101.42	ppb	0.00
Spiked Amount 50.000			Recovery	=	202.84%	
86) Terphenyl-d14	13.579	244	5963547	85.81	ppb	0.00
Spiked Amount 50.000			Recovery	=	171.62%	
106) o-terphenyl	0.000	230	0d	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
109) 1-chlorooctadecane	0.000	57	0d	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						
2) 1,4-Dioxane	2.106	88	1225238	71.30	ppb	86
3) Pyridine	2.501	79	3537468	87.92	ppb	82
4) N-Nitrosodimethylamine	2.469	74	2052310	81.58	ppb	99
6) Indene	5.753	116	4842697	80.74	ppb	99
7) Cumene	4.823	105	7537327	78.19	ppb	98
9) Phenol	5.277	94	4450884	83.88	ppb	88
10) Aniline	5.256	93	4162167	71.14	ppb	78
11) bis(2-Chloroethyl)ether	5.326	93	3134263	80.42	ppb	91
12) 2-Chlorophenol	5.363	128	2621614	83.95	ppb	86
13) Decane	5.417	43	1771580	79.42	ppb	93
14) 1,3-Dichlorobenzene	5.486	146	2737940	81.88	ppb	96
15) 1,4-Dichlorobenzene	5.545	146	2766225	81.23	ppb	98
16) Benzyl alcohol	5.673	108	1888384	87.08	ppb	94
17) 1,2-Dichlorobenzene	5.679	146	2505425	78.94	ppb	97
18) Acetophenone	5.893	105	4499784	81.46	ppb	89
19) 2-Methylphenol	5.786	108	2606162	85.60	ppb	96
20) 2,2'-oxybis(1-Chloropr...	5.780	121	881826	77.56	ppb	# 48
21) 3&4-Methylphenol	5.914	108	2966458	91.40	ppb	98

9.6.39

9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p277\
 Data File : 6p6544.D
 Acq On : 27 Apr 2014 1:50 pm
 Operator : ashleyd
 Sample : ic277-80
 Misc : op73158,e6p277
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 28 09:34:03 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Mon Apr 28 09:31:56 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
22) n-Nitroso-di-n-propyla...	5.903	70	2332811	76.29	ppb	94
23) Hexachloroethane	5.973	201	899819	79.66	ppb	91
26) Nitrobenzene	6.042	77	3985817	80.64	ppb	99
27) Quinoline	7.085	129	5194751	85.82	ppb	97
28) Isophorone	6.267	82	6615222	84.36	ppb	97
29) 2-Nitrophenol	6.336	139	1368182	91.20	ppb	73
30) 2,4-Dimethylphenol	6.390	107	3142689	93.50	ppb	97
31) Benzoic Acid	6.556	105	2512657m	87.88	ppb	
32) bis(2-Chloroethoxy)met...	6.470	93	3691297	82.83	ppb	97
33) 2,4-Dichlorophenol	6.577	162	2009507	93.66	ppb	97
34) 2,6-Dichlorophenol	6.796	162	1958464	87.51	ppb	98
35) 1,3,5-Trichlorobenzene	6.342	180	2210643	79.80	ppb	100
36) 1,2,4-Trichlorobenzene	6.647	180	2145379	80.45	ppb	98
37) 1,2,3-Trichlorobenzene	6.877	180	2112461	79.67	ppb	98
38) Naphthalene	6.722	128	7385089	78.65	ppb	97
39) 4-Chloroaniline	6.786	127	3094354	82.31	ppb	98
40) 2,3-Dichloroaniline	7.818	161	2584945	87.79	ppb	96
41) Caprolactam	7.214	55	1055335m	93.66	ppb	
42) Hexachlorobutadiene	6.855	225	1210603	81.77	ppb	99
43) 4-Chloro-3-methylphenol	7.331	107	2971860	88.78	ppb	99
44) 2-Methylnaphthalene	7.476	141	4335333	82.91	ppb	97
45) 1-Methylnaphthalene	7.593	141	4225471	81.19	ppb	98
46) Dimethylnaphthalene	8.251	156	4650206	84.58	ppb	99
48) Hexachlorocyclopentadiene	7.674	237	2748001	221.24	ppb	99
49) 2,4,6-Trichlorophenol	7.834	196	1444934	84.61	ppb	99
50) 2,4,5-Trichlorophenol	7.882	196	1568429	95.05	ppb	99
52) 2-Chloronaphthalene	8.069	162	4636518	79.79	ppb	95
53) Biphenyl	8.053	154	6223293	80.55	ppb	98
54) 2-Nitroaniline	8.219	65	2138980	87.51	ppb	98
55) Dimethylphthalate	8.471	163	5303569	82.41	ppb	99
56) Acenaphthylene	8.615	152	7744660	83.21	ppb	99
57) 2,6-Dinitrotoluene	8.545	165	1252477	87.64	ppb	97
58) 3-Nitroaniline	8.775	138	1431355	90.43	ppb	99
59) Acenaphthene	8.856	153	4799913	79.02	ppb	97
60) 2,4-Dinitrophenol	8.925	184	1489200	161.38	ppb	94
61) 4-Nitrophenol	9.059	109	1155070	76.50	ppb	# 77
62) Dibenzofuran	9.096	168	6594267	80.75	ppb	91
63) 2,4-Dinitrotoluene	9.112	165	1721443	91.16	ppb	85
64) 2,3,4,6-Tetrachlorophenol	9.294	232	1281937	100.50	ppb	94
65) Diethylphthalate	9.476	149	5613721	81.90	ppb	100
66) Fluorene	9.594	166	5499869	82.29	ppb	98
67) 4-Chlorophenyl-phenyle...	9.610	204	2333198	78.90	ppb	96
68) 4-Nitroaniline	9.663	138	1427095	93.51	ppb	83
70) 4,6-Dinitro-2-methylph...	9.711	198	1041780	82.21	ppb	92
71) n-Nitrosodiphenylamine	9.797	169	3740265	86.15	ppb	99
72) 1,2-Diphenylhydrazine	9.845	77	8197668	82.26	ppb	96
74) 4-Bromophenyl-phenylether	10.343	248	1403502	83.16	ppb	90
75) Hexachlorobenzene	10.428	284	1678987	83.30	ppb	84
76) Pentachlorophenol	10.744	266	2002827	302.42	ppb	98
77) Phenanthrene	11.043	178	7732052	77.63	ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p277\
 Data File : 6p6544.D
 Acq On : 27 Apr 2014 1:50 pm
 Operator : ashleyd
 Sample : ic277-80
 Misc : op73158,e6p277
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 28 09:34:03 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Mon Apr 28 09:31:56 2014
 Response via : Initial Calibration

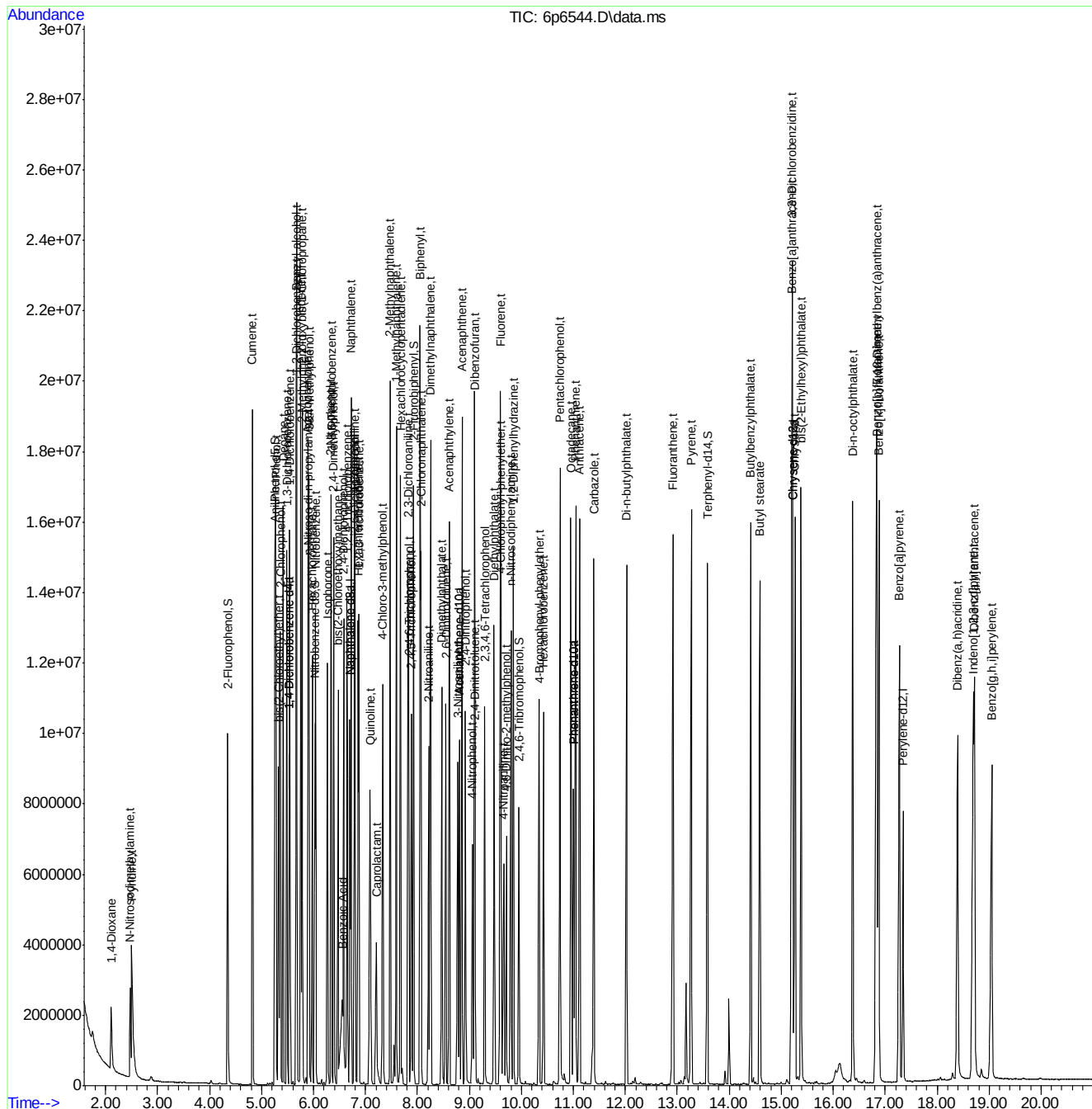
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78) Anthracene	11.118	178	7844349	82.11	ppb	100
79) Carbazole	11.396	167	7556470	85.84	ppb	99
80) Di-n-butylphthalate	12.022	149	9482306	87.03	ppb	99
81) Fluoranthene	12.915	202	8359329	82.97	ppb	95
82) Octadecane	10.952	57	3371440	79.25	ppb	85
84) Pyrene	13.268	202	8774646	82.40	ppb	92
85) Butyl stearate	14.584	56	2155750	92.92	ppb	74
87) Butylbenzylphthalate	14.413	149	4391187	90.24	ppb	96
88) Benzo[a]anthracene	15.204	228	7804003	79.28	ppb	99
89) 3,3'-Dichlorobenzidine	15.210	252	2862409	93.06	ppb	98
90) Chrysene	15.269	228	7313967	81.45	ppb	100
91) bis(2-Ethylhexyl)phtha...	15.381	149	5978048	91.92	ppb	98
93) Di-n-octylphthalate	16.376	149	10528381	97.10	ppb	97
94) Benzo[b]fluoranthene	16.841	252	8662717	88.36	ppb	97
95) Benzo[k]fluoranthene	16.879	252	7411380	85.10	ppb	97
96) Benzo[a]pyrene	17.274	252	7116512	85.75	ppb	96
97) Indeno[1,2,3-cd]pyrene	18.692	276	7756057	81.84	ppb	79
98) Dibenz(a,h)acridine	18.398	279	6476600	91.26	ppb	98
99) Dibenz[a,h]anthracene	18.719	278	7292718	91.00	ppb	92
100) 7,12-Dimethylbenz(a)an...	16.836	256	3765495	106.78	ppb	98
101) Benzo[g,h,i]perylene	19.050	276	7031573	86.03	ppb	83

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p277\
Data File : 6p6544.D
Acq On : 27 Apr 2014 1:50 pm
Operator : ashleyd
Sample : ic277-80
Misc : op73158,6p277
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 28 09:34:03 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Mon Apr 28 09:31:56 2014
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: E6P277-IC277

Method: SW846 8270D

Lab FileID: 6P6544.D

Analyst approved: 04/28/14 13:35 Emily Pisarski

Injection Time: 04/27/14 13:50

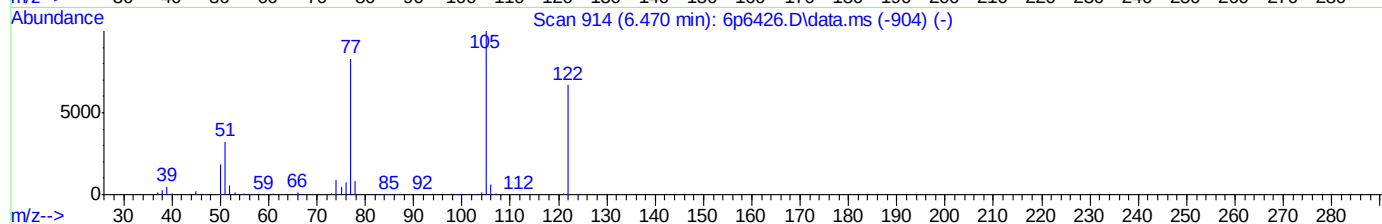
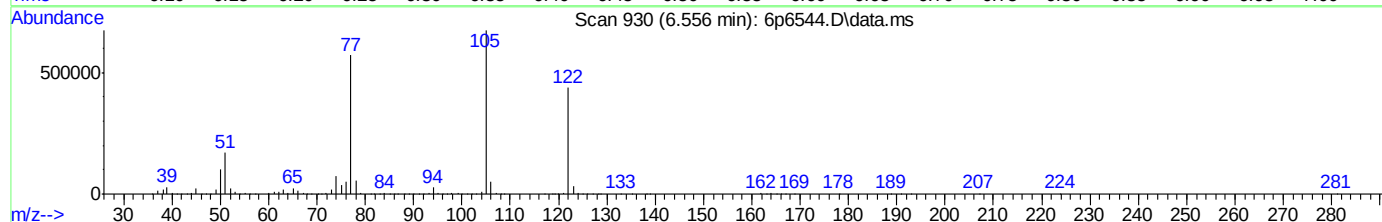
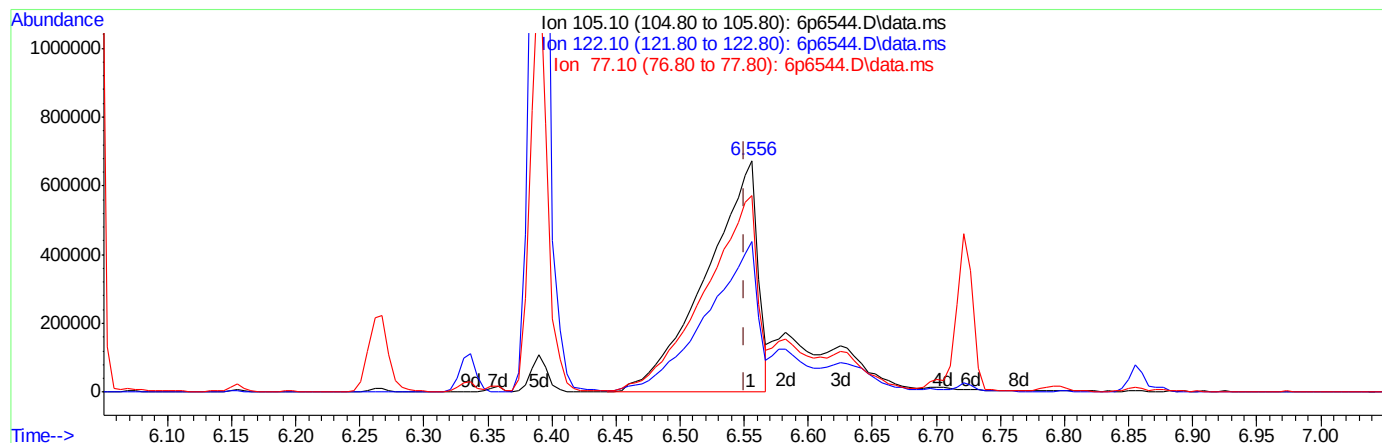
Supervisor approved: 04/28/14 15:39 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic acid	65-85-0		6.56	Poor instrument integration
Caprolactam	105-60-2		7.21	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\6p277\
Data File : 6p6544.D
Acq On : 27 Apr 2014 1:50 pm
Operator : ashleyd
Sample : ic277-80
Misc : op73158,e6p277
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 28 09:24:44 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Mon Apr 28 09:24:22 2014
Response via : Initial Calibration



TIC: 6p6544.D\data.ms

(31) Benzoic Acid

6.556min (+0.005) 64.85ppb

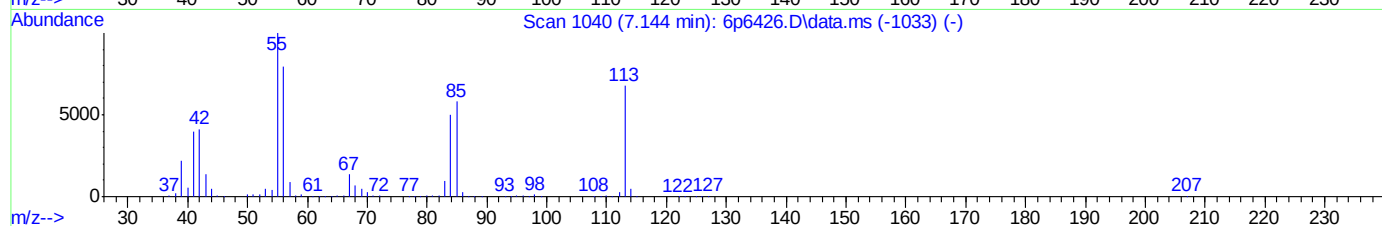
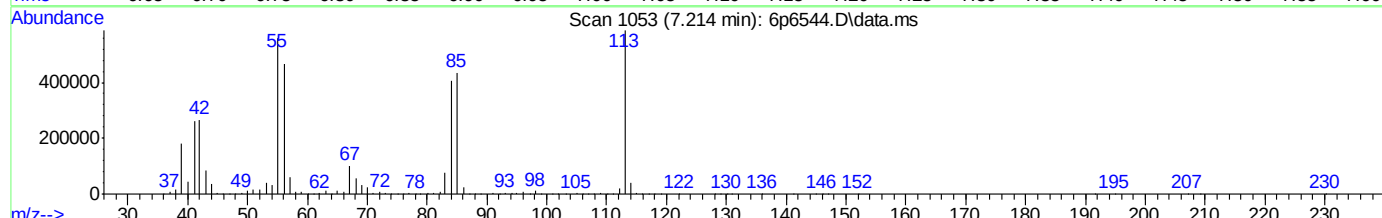
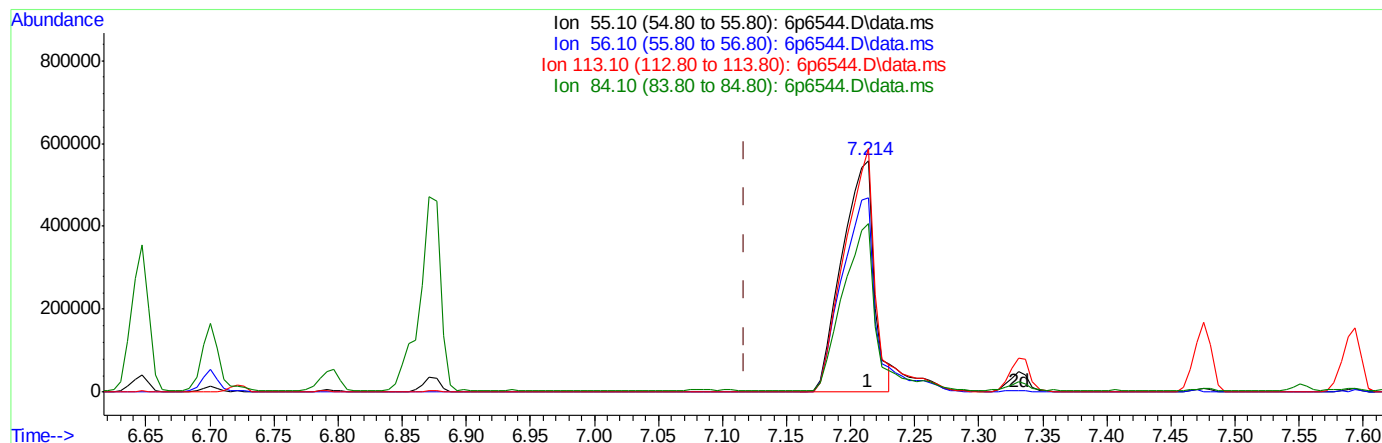
response 1854219

Ion	Exp%	Act%
105.10	100	100
122.10	28.90	64.25#
77.10	33.10	86.19#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p277\
Data File : 6p6544.D
Acq On : 27 Apr 2014 1:50 pm
Operator : ashleyd
Sample : ic277-80
Misc : op73158,e6p277
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 28 09:24:44 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Mon Apr 28 09:24:22 2014
Response via : Initial Calibration



TIC: 6p6544.D\data.ms

(41) Caprolactam (t)

7.214min (+0.096) 85.66ppb

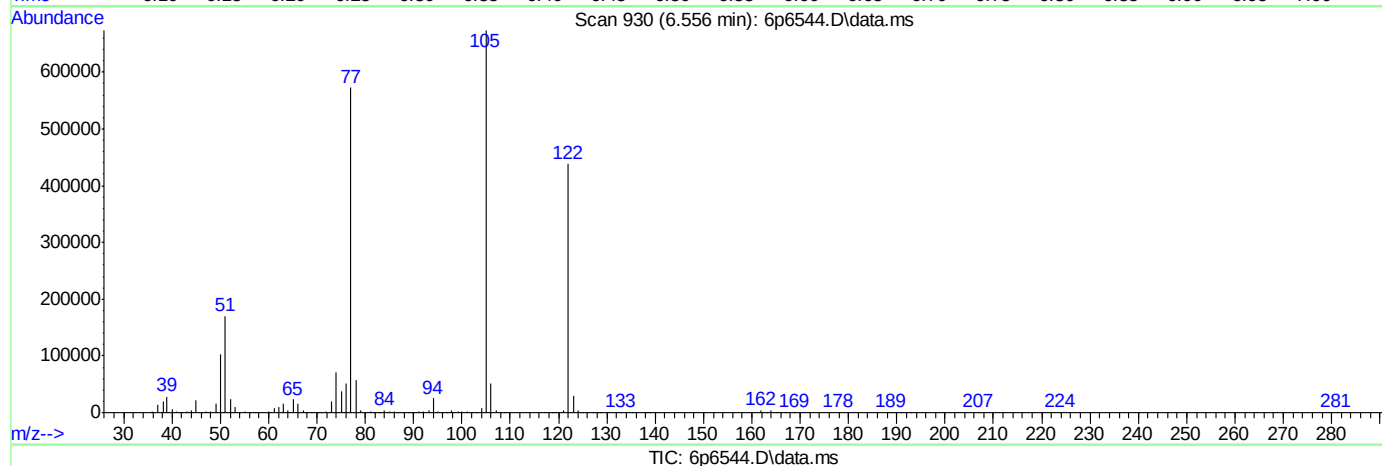
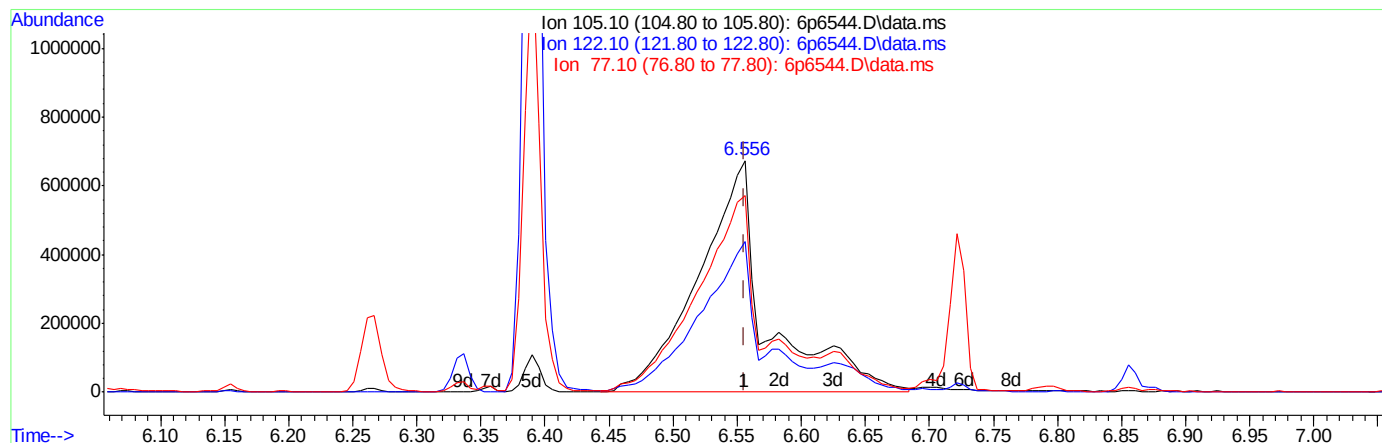
response 965173

Ion	Exp%	Act%
55.10	100	100
56.10	79.20	83.37
113.10	67.50	105.48#
84.10	50.50	71.89

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\6p277\
Data File : 6p6544.D
Acq On : 27 Apr 2014 1:50 pm
Operator : ashleyd
Sample : ic277-80
Misc : op73158,e6p277
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 28 09:34:03 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Mon Apr 28 09:31:56 2014
Response via : Initial Calibration



(31) Benzoic Acid

6.556min (0.000) 87.88ppb m

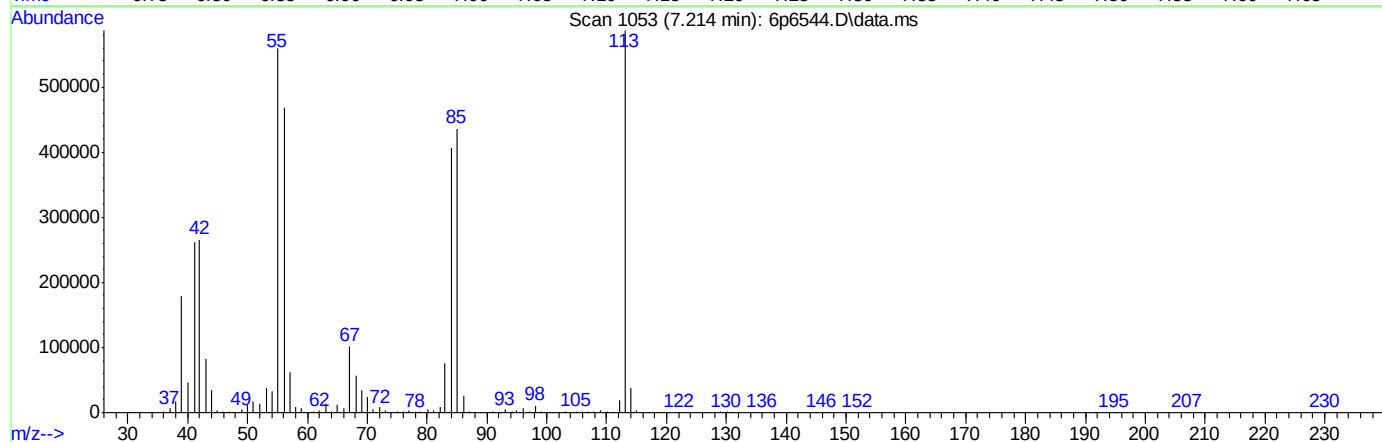
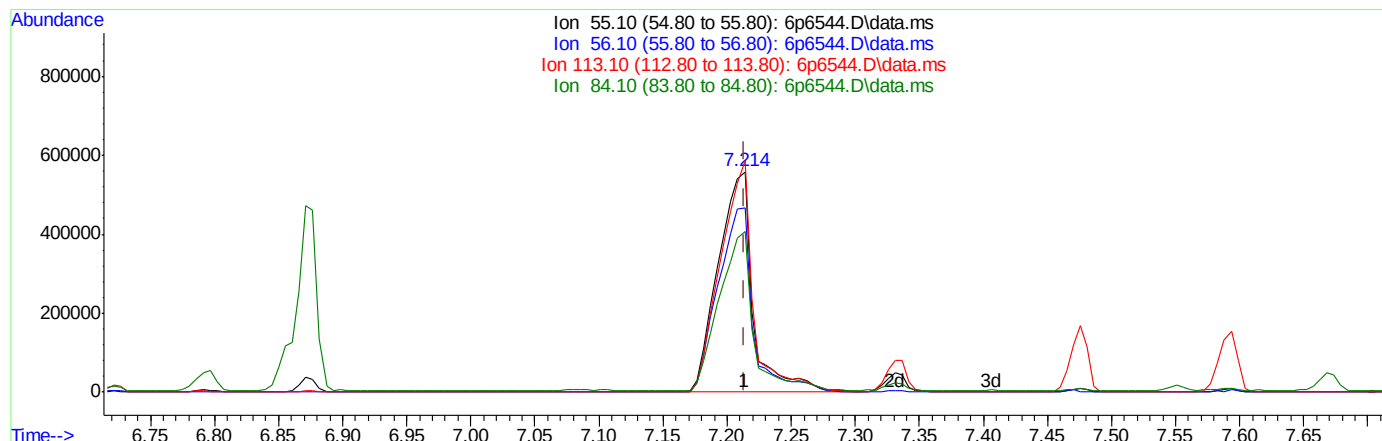
response 2512657

Ion	Exp%	Act%
105.10	100	100
122.10	28.90	47.42
77.10	33.10	63.67#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\6p277\
Data File : 6p6544.D
Acq On : 27 Apr 2014 1:50 pm
Operator : ashleyd
Sample : ic277-80
Misc : op73158,e6p277
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 28 09:34:03 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Mon Apr 28 09:31:56 2014
Response via : Initial Calibration



(41) Caprolactam (t)

7.214min (0.000) 93.66ppb m

response 1055335

Ion	Exp%	Act%
55.10	100	100
56.10	79.20	83.65
113.10	67.50	105.00#
84.10	50.50	72.66

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p277\
 Data File : 6p6545.D
 Acq On : 27 Apr 2014 2:18 pm
 Operator : ashleyd
 Sample : icc277-50
 Misc : op73158,e6p277
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 28 09:36:39 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Mon Apr 28 09:34:11 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.529	152	640915	40.00	ppb	0.00
24) Naphthalene-d8	6.700	136	2546147	40.00	ppb	0.00
47) Acenaphthene-d10	8.802	164	1512010	40.00	ppb	0.00
69) Phenanthrene-d10	10.995	188	2534506	40.00	ppb	0.00
83) Chrysene-d12	15.215	240	2617544	40.00	ppb	0.00
92) Perylene-d12	17.339	264	2514111	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	5.529	152	640915	40.00	ppb	0.00
104) Phenanthrene-d10a	10.995	188	2534506	40.00	ppb	0.00
107) Chrysene-d12a	15.215	240	2617544	40.00	ppb	0.00
110) Acenaphthene-d10a	8.802	164	1512010	40.00	ppb	0.00
112) Naphthalene-d8a	6.700	136	2546147	40.00	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol	4.341	112	1264334	56.13	ppb	0.00
Spiked Amount	50.000		Recovery	=	112.26%	
8) Phenol-d5	5.256	99	1762525	56.57	ppb	-0.01
Spiked Amount	50.000		Recovery	=	113.14%	
25) Nitrobenzene-d5	6.015	82	1834133	57.38	ppb	-0.01
Spiked Amount	50.000		Recovery	=	114.76%	
51) 2-Fluorobiphenyl	7.920	172	2402392	56.72	ppb	0.00
Spiked Amount	50.000		Recovery	=	113.44%	
73) 2,4,6-Tribromophenol	9.947	330	380508	60.09	ppb	0.00
Spiked Amount	50.000		Recovery	=	120.18%	
86) Terphenyl-d14	13.568	244	2715503	55.25	ppb	-0.01
Spiked Amount	50.000		Recovery	=	110.50%	
106) o-terphenyl	0.000	230	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
109) 1-chlorooctadecane	0.000	57	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	

Target Compounds

Qvalue

2) 1,4-Dioxane	2.106	88	688795	64.05	ppb	84
3) Pyridine	2.501	79	1894598	70.20	ppb	81
4) N-Nitrosodimethylamine	2.464	74	963507	58.59	ppb	98
6) Indene	5.753	116	2641164	67.60	ppb	99
7) Cumene	4.823	105	4154424	66.87	ppb	98
9) Phenol	5.272	94	2196080	62.72	ppb	89
10) Aniline	5.256	93	2526960	69.06	ppb	77
11) bis(2-Chloroethyl)ether	5.320	93	1466376	57.84	ppb	92
12) 2-Chlorophenol	5.358	128	1254483	60.86	ppb	88
13) Decane	5.416	43	967478	66.95	ppb	86
14) 1,3-Dichlorobenzene	5.481	146	1279321	58.46	ppb	98
15) 1,4-Dichlorobenzene	5.545	146	1297526	58.37	ppb	98
16) Benzyl alcohol	5.662	108	955133	65.88	ppb	93
17) 1,2-Dichlorobenzene	5.678	146	1206536	58.80	ppb	99
18) Acetophenone	5.887	105	2511111	69.58	ppb	92
19) 2-Methylphenol	5.775	108	1308554	64.67	ppb	97
20) 2,2'-oxybis(1-Chloropr...	5.780	121	430731	58.94	ppb	# 43
21) 3&4-Methylphenol	5.908	108	1435928	65.04	ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p277\
 Data File : 6p6545.D
 Acq On : 27 Apr 2014 2:18 pm
 Operator : ashleyd
 Sample : icc277-50
 Misc : op73158,e6p277
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 28 09:36:39 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Mon Apr 28 09:34:11 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
22) n-Nitroso-di-n-propyla...	5.892	70	1181373	60.42	ppb	95
23) Hexachloroethane	5.973	201	429135	58.59	ppb	90
26) Nitrobenzene	6.037	77	1945907	60.17	ppb	99
27) Quinoline	7.069	129	2797737	69.15	ppb	96
28) Isophorone	6.256	82	3287878	63.10	ppb	98
29) 2-Nitrophenol	6.331	139	645820	63.02	ppb	89
30) 2,4-Dimethylphenol	6.385	107	1571336	67.82	ppb	98
31) Benzoic Acid	6.513	105	835330m	42.67	ppb	
32) bis(2-Chloroethoxy)met...	6.465	93	1763420	59.93	ppb	96
33) 2,4-Dichlorophenol	6.572	162	946860	63.98	ppb	97
34) 2,6-Dichlorophenol	6.791	162	939804	62.40	ppb	100
35) 1,3,5-Trichlorobenzene	6.342	180	1214515	67.24	ppb	97
36) 1,2,4-Trichlorobenzene	6.647	180	1015918	58.27	ppb	97
37) 1,2,3-Trichlorobenzene	6.871	180	1154008	66.79	ppb	99
38) Naphthalene	6.721	128	3642611	59.78	ppb	100
39) 4-Chloroaniline	6.780	127	1596678	64.46	ppb	99
40) 2,3-Dichloroaniline	7.813	161	1375383	69.33	ppb	98
41) Caprolactam	7.176	55	573383	73.78	ppb	# 78
42) Hexachlorobutadiene	6.855	225	585251	60.13	ppb	98
43) 4-Chloro-3-methylphenol	7.326	107	1410419	62.29	ppb	97
44) 2-Methylnaphthalene	7.470	141	2027076	58.69	ppb	98
45) 1-Methylnaphthalene	7.588	141	2298318	67.33	ppb	99
46) Dimethylnaphthalene	8.246	156	2509415	68.63	ppb	99
48) Hexachlorocyclopentadiene	7.668	237	1376039	151.75	ppb	99
49) 2,4,6-Trichlorophenol	7.823	196	684681	60.76	ppb	99
50) 2,4,5-Trichlorophenol	7.877	196	733317	64.59	ppb	99
52) 2-Chloronaphthalene	8.064	162	2214727	58.92	ppb	95
53) Biphenyl	8.048	154	3359290	67.01	ppb	99
54) 2-Nitroaniline	8.208	65	1012765	62.05	ppb	99
55) Dimethylphthalate	8.460	163	2480334	58.94	ppb	98
56) Acenaphthylene	8.610	152	3669409	60.09	ppb	99
57) 2,6-Dinitrotoluene	8.535	165	591756	61.98	ppb	95
58) 3-Nitroaniline	8.765	138	681609	63.74	ppb	96
59) Acenaphthene	8.850	153	2273109	58.04	ppb	97
60) 2,4-Dinitrophenol	8.914	184	724436	120.74	ppb	96
61) 4-Nitrophenol	9.043	109	536182	56.08	ppb	# 68
62) Dibenzofuran	9.091	168	3097910	58.41	ppb	99
63) 2,4-Dinitrotoluene	9.096	165	828915	64.79	ppb	81
64) 2,3,4,6-Tetrachlorophenol	9.289	232	611598	68.23	ppb	93
65) Diethylphthalate	9.465	149	2684179	60.01	ppb	100
66) Fluorene	9.588	166	2614131	59.84	ppb	96
67) 4-Chlorophenyl-phenyle...	9.604	204	1106576	58.06	ppb	99
68) 4-Nitroaniline	9.642	138	653582	62.62	ppb	86
70) 4,6-Dinitro-2-methylph...	9.695	198	479747	56.00	ppb	94
71) n-Nitrosodiphenylamine	9.786	169	1747397	58.84	ppb	99
72) 1,2-Diphenylhydrazine	9.840	77	4055079	60.45	ppb	96
74) 4-Bromophenyl-phenylether	10.332	248	667164	58.51	ppb	96
75) Hexachlorobenzene	10.423	284	792547	58.16	ppb	84
76) Pentachlorophenol	10.738	266	908504	158.64	ppb	97
77) Phenanthrene	11.032	178	3699137	56.25	ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p277\
 Data File : 6p6545.D
 Acq On : 27 Apr 2014 2:18 pm
 Operator : ashleyd
 Sample : icc277-50
 Misc : op73158,e6p277
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 28 09:36:39 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Mon Apr 28 09:34:11 2014
 Response via : Initial Calibration

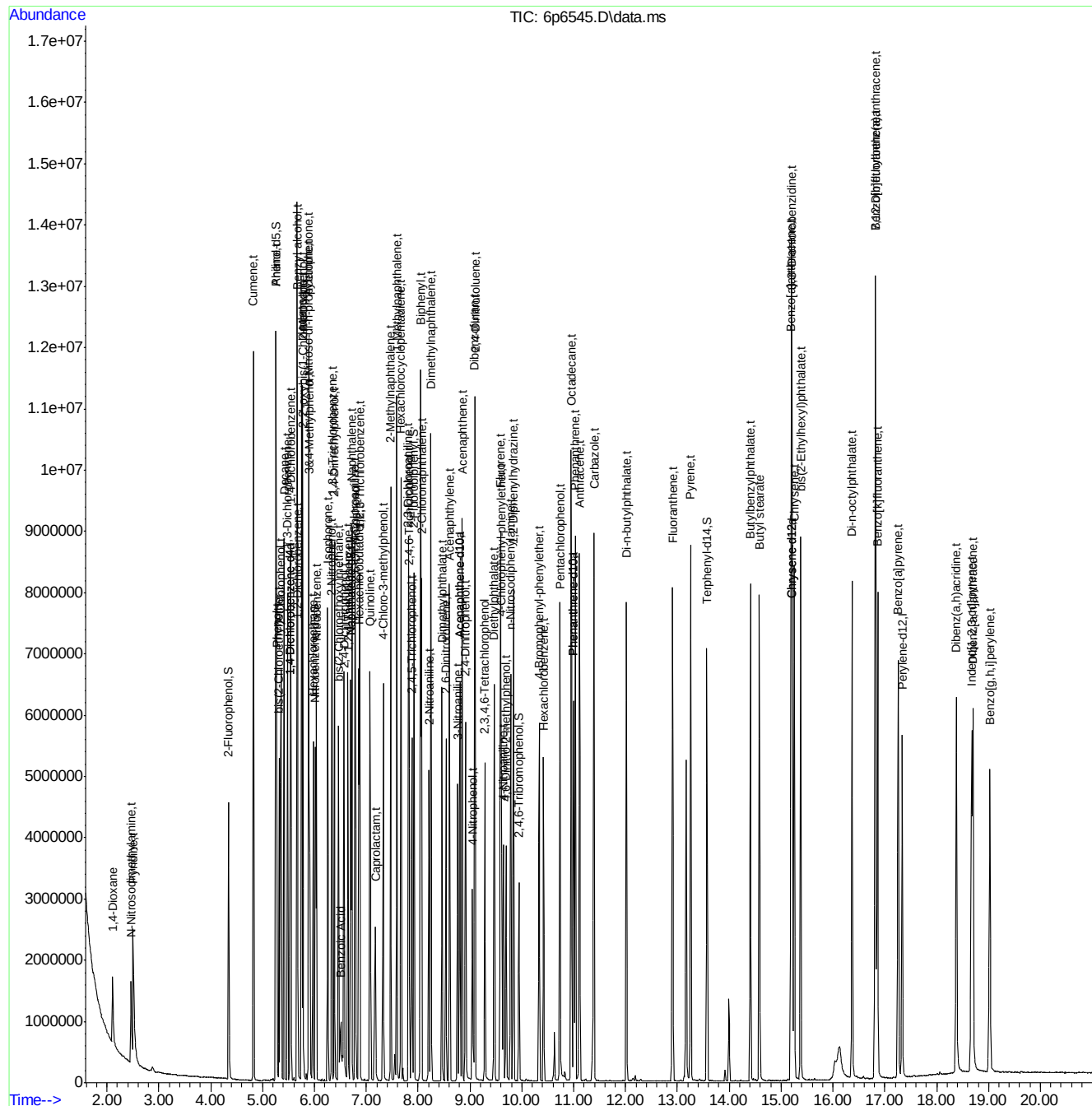
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78) Anthracene	11.113	178	3805417	59.21	ppb	99
79) Carbazole	11.391	167	4141475	68.87	ppb	100
80) Di-n-butylphthalate	12.017	149	4528510	60.55	ppb	99
81) Fluoranthene	12.905	202	4028934	59.23	ppb	96
82) Octadecane	10.952	57	1927341	68.15	ppb	83
84) Pyrene	13.258	202	4200792	56.56	ppb	94
85) Butyl stearate	14.579	56	1109179	65.70	ppb	76
87) Butylbenzylphthalate	14.407	149	2067979	59.03	ppb	96
88) Benzo[a]anthracene	15.194	228	3756901	55.44	ppb	98
89) 3,3'-Dichlorobenzidine	15.199	252	1390731	62.10	ppb	99
90) Chrysene	15.253	228	3482513	55.82	ppb	100
91) bis(2-Ethylhexyl)phtha...	15.376	149	2853119	60.52	ppb	98
93) Di-n-octylphthalate	16.370	149	5020057	58.47	ppb	97
94) Benzo[b]fluoranthene	16.820	252	4044283	53.93	ppb	97
95) Benzo[k]fluoranthene	16.863	252	3607541	54.87	ppb	97
96) Benzo[a]pyrene	17.258	252	3468787	55.22	ppb	95
97) Indeno[1,2,3-cd]pyrene	18.676	276	3693687	52.33	ppb	77
98) Dibenz(a,h)acridine	18.382	279	3480484	63.38	ppb	99
99) Dibenz[a,h]anthracene	18.702	278	3434030	55.43	ppb	90
100) 7,12-Dimethylbenz(a)an...	16.820	256	2145516	74.05	ppb	98
101) Benzo[g,h,i]perylene	19.029	276	3339297	53.92	ppb	84

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

```
Data Path   : C:\msdchem\1\DATA\e6p277\
Data File   : 6p6545.D
Acq On      : 27 Apr 2014    2:18 pm
Operator    : ashleyd
Sample      : icc277-50
Misc        : op73158,e6p277
ALS Vial    : 5      Sample Multiplier: 1
```

Quant Time: Apr 28 09:36:39 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Mon Apr 28 09:34:11 2014
Response via : Initial Calibration



M6P277.M Mon Apr 28 11:48:07 2014 RPT1

Page: 4

9.6.40

Manual Integration Approval Summary

Sample Number: E6P277-ICC277

Method: SW846 8270D

Lab FileID: 6P6545.D

Analyst approved: 04/28/14 13:35 Emily Pisarski

Injection Time: 04/27/14 14:18

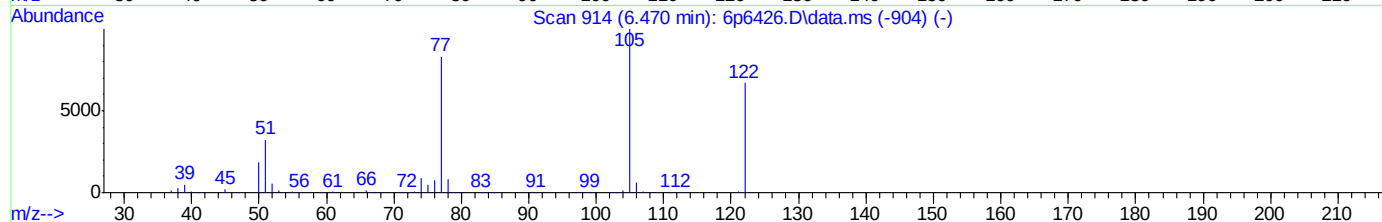
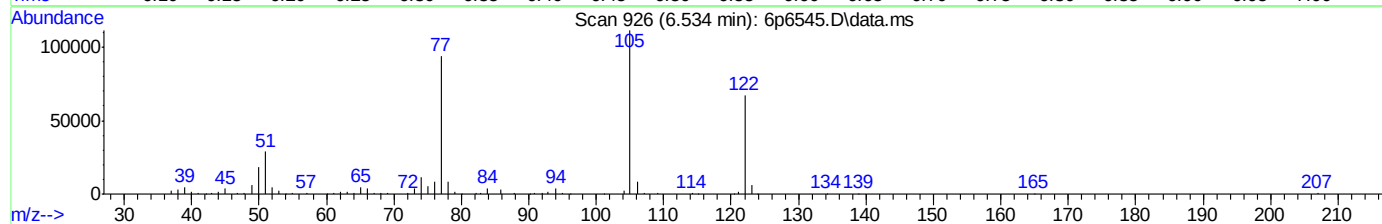
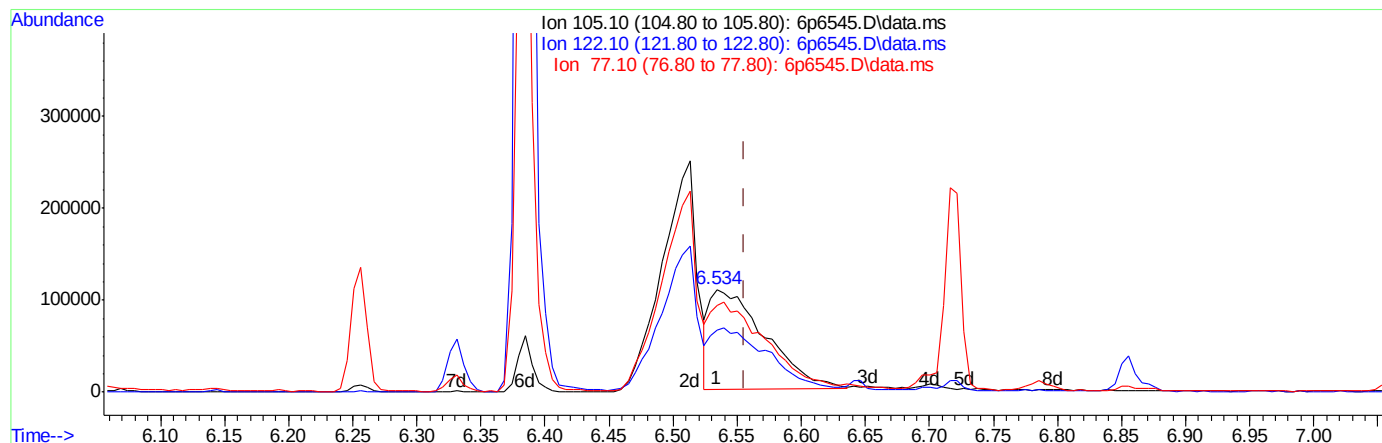
Supervisor approved: 04/28/14 15:39 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic acid	65-85-0		6.51	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\6p277\
Data File : 6p6545.D
Acq On : 27 Apr 2014 2:18 pm
Operator : ashleyd
Sample : icc277-50
Misc : op73158,e6p277
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 28 09:34:19 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Mon Apr 28 09:34:11 2014
Response via : Initial Calibration



TIC: 6p6545.D\data.ms

(31) Benzoic Acid

6.534min (-0.021) 16.69ppb

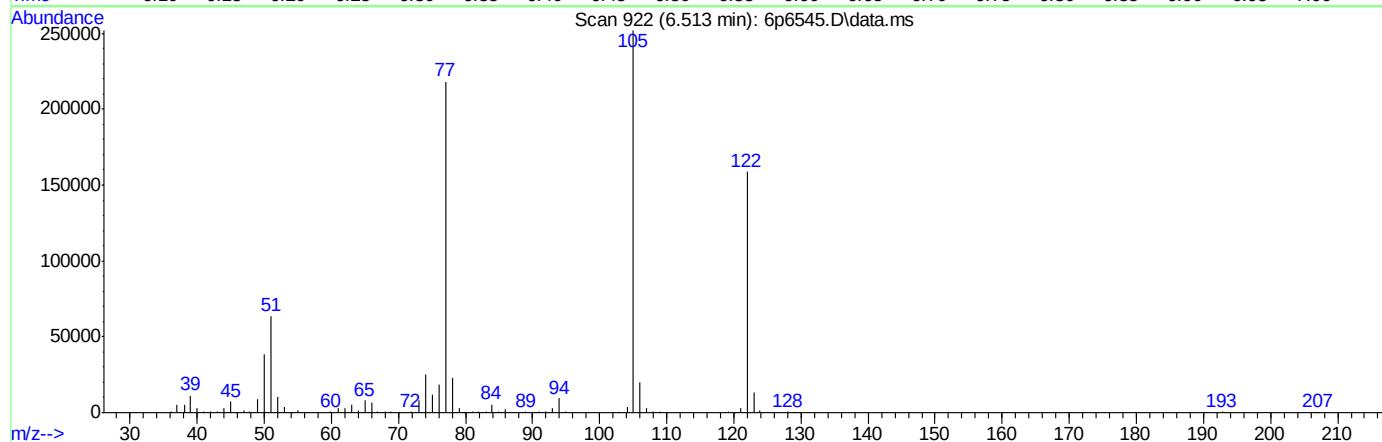
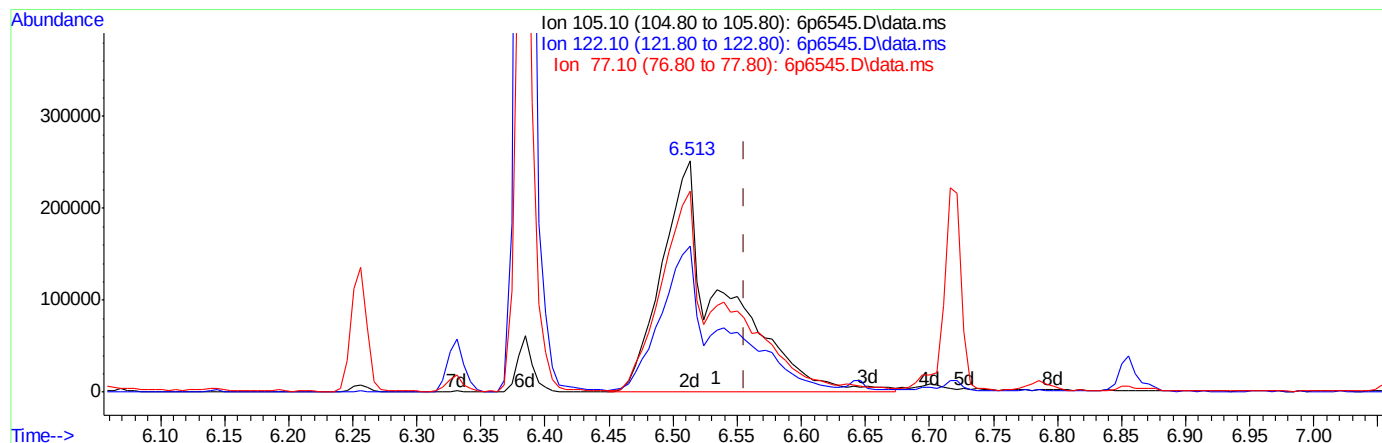
response 326696

Ion	Exp%	Act%
105.10	100	100
122.10	28.90	64.16#
77.10	33.10	88.64#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\6p277\
Data File : 6p6545.D
Acq On : 27 Apr 2014 2:18 pm
Operator : ashleyd
Sample : icc277-50
Misc : op73158,e6p277
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 28 09:36:39 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Mon Apr 28 09:34:11 2014
Response via : Initial Calibration



TIC: 6p6545.D\data.ms

(31) Benzoic Acid

6.513min (-0.043) 42.67ppb m

response 835330

Ion	Exp%	Act%
105.10	100	100
122.10	28.90	25.09
77.10	33.10	34.67
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p277\
 Data File : 6p6546.D
 Acq On : 27 Apr 2014 2:46 pm
 Operator : ashleyd
 Sample : ic277-25
 Misc : op73158,e6p277
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 28 09:38:47 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Mon Apr 28 09:36:51 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.529	152	566983	40.00	ppb	0.00
24) Naphthalene-d8	6.695	136	2239897	40.00	ppb	0.00
47) Acenaphthene-d10	8.802	164	1333202	40.00	ppb	0.00
69) Phenanthrene-d10	10.995	188	2221010	40.00	ppb	0.00
83) Chrysene-d12	15.210	240	2292910	40.00	ppb	0.00
92) Perylene-d12	17.333	264	2179922	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	5.529	152	566983	40.00	ppb	0.00
104) Phenanthrene-d10a	10.995	188	2221010	40.00	ppb	0.00
107) Chrysene-d12a	15.210	240	2292910	40.00	ppb	0.00
110) Acenaphthene-d10a	8.802	164	1333202	40.00	ppb	0.00
112) Naphthalene-d8a	6.695	136	2239897	40.00	ppb	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	4.341	112	548376	26.70	ppb	0.00
Spiked Amount	50.000		Recovery	=	53.40%	
8) Phenol-d5	5.256	99	793780	27.88	ppb	0.00
Spiked Amount	50.000		Recovery	=	55.76%	
25) Nitrobenzene-d5	6.015	82	801827	27.50	ppb	0.00
Spiked Amount	50.000		Recovery	=	55.00%	
51) 2-Fluorobiphenyl	7.920	172	1040660	26.96	ppb	0.00
Spiked Amount	50.000		Recovery	=	53.92%	
73) 2,4,6-Tribromophenol	9.941	330	160501	27.54	ppb	0.00
Spiked Amount	50.000		Recovery	=	55.08%	
86) Terphenyl-d14	13.568	244	1188605	26.90	ppb	0.00
Spiked Amount	50.000		Recovery	=	53.80%	
106) o-terphenyl	0.000	230	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
109) 1-chlorooctadecane	0.000	57	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	

Target Compounds						Qvalue
2) 1,4-Dioxane	2.106	88	302023	29.66	ppb	99
3) Pyridine	2.507	79	827037	31.46	ppb	99
4) N-Nitrosodimethylamine	2.464	74	421106	27.75	ppb	99
6) Indene	5.753	116	1167600	31.05	ppb	99
7) Cumene	4.823	105	1841622	30.90	ppb	99
9) Phenol	5.267	94	967345	29.36	ppb	98
10) Aniline	5.251	93	1114096	31.42	ppb	96
11) bis(2-Chloroethyl)ether	5.315	93	655175	28.11	ppb	96
12) 2-Chlorophenol	5.358	128	551108	28.67	ppb	98
13) Decane	5.411	43	435175	31.38	ppb	100
14) 1,3-Dichlorobenzene	5.481	146	566160	28.06	ppb	99
15) 1,4-Dichlorobenzene	5.545	146	575546	28.09	ppb	99
16) Benzyl alcohol	5.662	108	417363	30.15	ppb	97
17) 1,2-Dichlorobenzene	5.673	146	534705	28.21	ppb	98
18) Acetophenone	5.882	105	1113053	31.75	ppb	96
19) 2-Methylphenol	5.775	108	599039	31.18	ppb	99
20) 2,2'-oxybis(1-Chloropr...	5.775	121	185275	27.43	ppb	98
21) 3&4-Methylphenol	5.903	108	634036	30.19	ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p277\
 Data File : 6p6546.D
 Acq On : 27 Apr 2014 2:46 pm
 Operator : ashleyd
 Sample : ic277-25
 Misc : op73158,e6p277
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 28 09:38:47 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Mon Apr 28 09:36:51 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
22) n-Nitroso-di-n-propyla...	5.887	70	543993	29.89	ppb	99
23) Hexachloroethane	5.973	201	190137	28.13	ppb	98
26) Nitrobenzene	6.032	77	857646	28.69	ppb	99
27) Quinoline	7.064	129	1208261	30.98	ppb	99
28) Isophorone	6.251	82	1448968	29.67	ppb	100
29) 2-Nitrophenol	6.326	139	280496	29.21	ppb	93
30) 2,4-Dimethylphenol	6.379	107	694366	31.28	ppb	99
31) Benzoic Acid	6.475	105	242646m	14.81	ppb	
32) bis(2-Chloroethoxy)met...	6.459	93	778336	28.64	ppb	98
33) 2,4-Dichlorophenol	6.566	162	417099	29.94	ppb	95
34) 2,6-Dichlorophenol	6.786	162	410559	29.18	ppb	98
35) 1,3,5-Trichlorobenzene	6.336	180	537508	31.14	ppb	98
36) 1,2,4-Trichlorobenzene	6.641	180	458538	28.71	ppb	96
37) 1,2,3-Trichlorobenzene	6.866	180	507197	30.78	ppb	96
38) Naphthalene	6.716	128	1583133	28.16	ppb	100
39) 4-Chloroaniline	6.775	127	686615	29.39	ppb	98
40) 2,3-Dichloroaniline	7.813	161	595180	31.10	ppb	99
41) Caprolactam	7.149	55	245687	32.12	ppb	97
42) Hexachlorobutadiene	6.855	225	254784	28.32	ppb	98
43) 4-Chloro-3-methylphenol	7.321	107	610092	28.85	ppb	99
44) 2-Methylnaphthalene	7.470	141	886371	27.96	ppb	98
45) 1-Methylnaphthalene	7.588	141	1005418	30.81	ppb	98
46) Dimethylnaphthalene	8.246	156	1091100	31.03	ppb	99
48) Hexachlorocyclopentadiene	7.668	237	556981	61.68	ppb	99
49) 2,4,6-Trichlorophenol	7.823	196	295813	28.25	ppb	99
50) 2,4,5-Trichlorophenol	7.871	196	309867	28.85	ppb	98
52) 2-Chloronaphthalene	8.064	162	949096	27.41	ppb	98
53) Biphenyl	8.043	154	1459536	30.43	ppb	99
54) 2-Nitroaniline	8.203	65	442156	28.98	ppb	98
55) Dimethylphthalate	8.454	163	1079436	27.85	ppb	99
56) Acenaphthylene	8.604	152	1582942	27.99	ppb	99
57) 2,6-Dinitrotoluene	8.529	165	255346	28.62	ppb	96
58) 3-Nitroaniline	8.754	138	285935	28.38	ppb	88
59) Acenaphthene	8.845	153	982040	27.34	ppb	100
60) 2,4-Dinitrophenol	8.909	184	264632	46.79	ppb	93
61) 4-Nitrophenol	9.043	109	234555	26.74	ppb	# 83
62) Dibenzofuran	9.091	168	1351790	27.74	ppb	98
63) 2,4-Dinitrotoluene	9.091	165	356191	29.40	ppb	97
64) 2,3,4,6-Tetrachlorophenol	9.283	232	257721	29.88	ppb	98
65) Diethylphthalate	9.465	149	1145537	27.66	ppb	99
66) Fluorene	9.583	166	1135120	28.09	ppb	100
67) 4-Chlorophenyl-phenyle...	9.604	204	491523	28.12	ppb	97
68) 4-Nitroaniline	9.631	138	286979	29.33	ppb	99
70) 4,6-Dinitro-2-methylph...	9.685	198	189292	24.24	ppb	99
71) n-Nitrosodiphenylamine	9.781	169	771486	28.39	ppb	99
72) 1,2-Diphenylhydrazine	9.834	77	1788154	28.91	ppb	98
74) 4-Bromophenyl-phenylether	10.332	248	281381	27.01	ppb	96
75) Hexachlorobenzene	10.417	284	340927	27.43	ppb	94
76) Pentachlorophenol	10.733	266	354147	61.55	ppb	99
77) Phenanthrene	11.027	178	1603936	26.99	ppb	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p277\
 Data File : 6p6546.D
 Acq On : 27 Apr 2014 2:46 pm
 Operator : ashleyd
 Sample : ic277-25
 Misc : op73158,e6p277
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 28 09:38:47 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Mon Apr 28 09:36:51 2014
 Response via : Initial Calibration

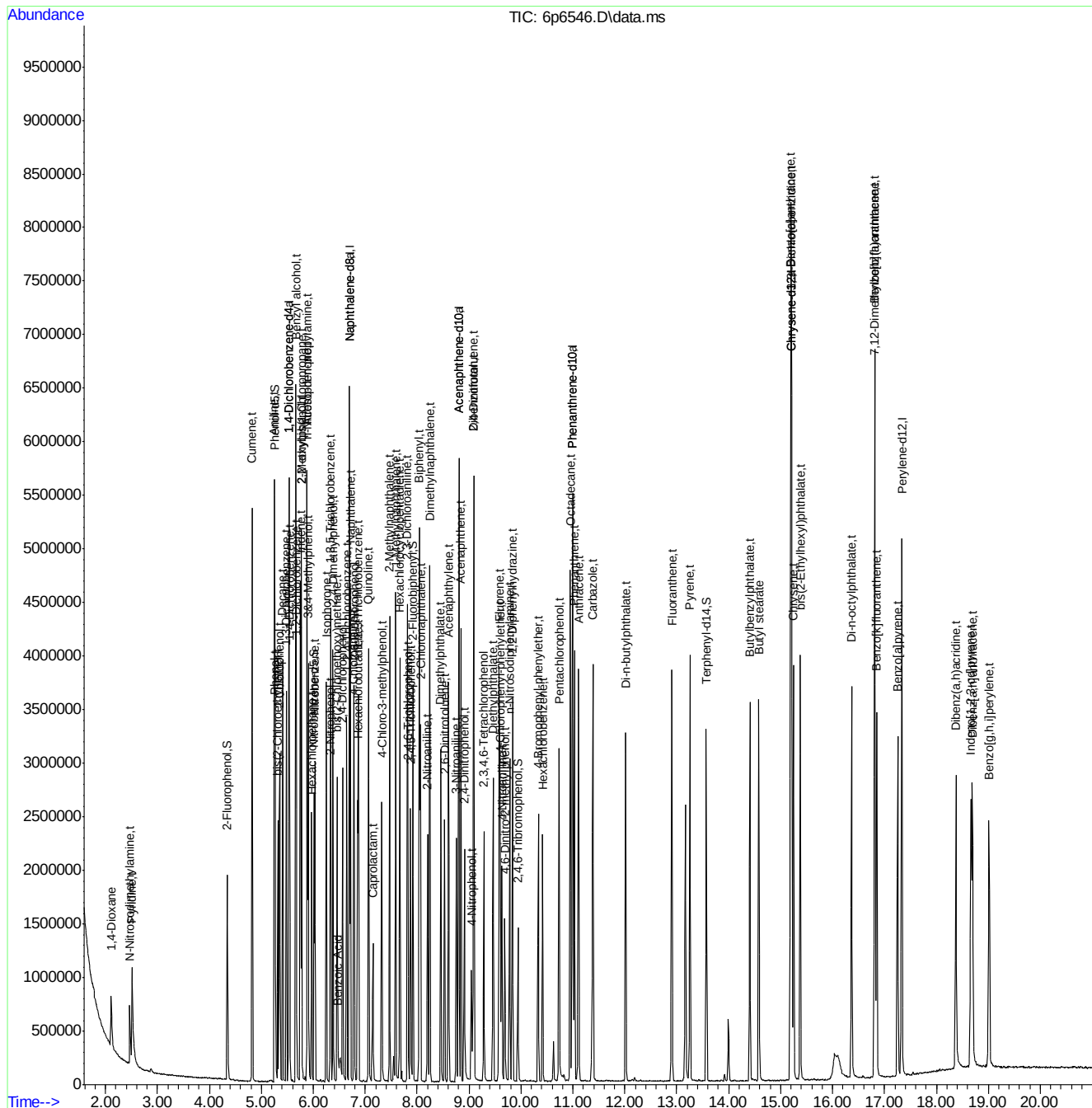
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78) Anthracene	11.107	178	1666572	28.29	ppb	99
79) Carbazole	11.386	167	1797392	31.17	ppb	99
80) Di-n-butylphthalate	12.017	149	1977668	28.66	ppb	100
81) Fluoranthene	12.905	202	1749098	28.05	ppb	99
82) Octadecane	10.947	57	867496	32.09	ppb	98
84) Pyrene	13.252	202	1827235	27.19	ppb	98
85) Butyl stearate	14.579	56	482329	30.24	ppb	96
87) Butylbenzylphthalate	14.407	149	905524	28.23	ppb	97
88) Benzo[a]anthracene	15.194	228	1649945	27.06	ppb	100
89) 3,3'-Dichlorobenzidine	15.199	252	596184	28.66	ppb	99
90) Chrysene	15.247	228	1536615	27.32	ppb	99
91) bis(2-Ethylhexyl)phtha...	15.376	149	1225472	28.19	ppb	99
93) Di-n-octylphthalate	16.365	149	2163395	27.88	ppb	99
94) Benzo[b]fluoranthene	16.809	252	1740241	26.25	ppb	99
95) Benzo[k]fluoranthene	16.852	252	1627259	27.87	ppb	99
96) Benzo[a]pyrene	17.253	252	1538918	27.54	ppb	99
97) Indeno[1,2,3-cd]pyrene	18.665	276	1579056	25.50	ppb	99
98) Dibenz(a,h)acridine	18.376	279	1518325	29.89	ppb	100
99) Dibenz[a,h]anthracene	18.692	278	1494161	27.08	ppb	99
100) 7,12-Dimethylbenz(a)an...	16.814	256	934319	33.20	ppb	98
101) Benzo[g,h,i]perylene	19.018	276	1480260	27.04	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p277\
Data File : 6p6546.D
Acq On : 27 Apr 2014 2:46 pm
Operator : ashleyd
Sample : ic277-25
Misc : op73158,6p277
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 28 09:38:47 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Mon Apr 28 09:36:51 2014
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: E6P277-IC277

Method: SW846 8270D

Lab FileID: 6P6546.D

Analyst approved: 04/28/14 13:35 Emily Pisarski

Injection Time: 04/27/14 14:46

Supervisor approved: 04/28/14 15:39 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic acid	65-85-0		6.48	Poor instrument integration

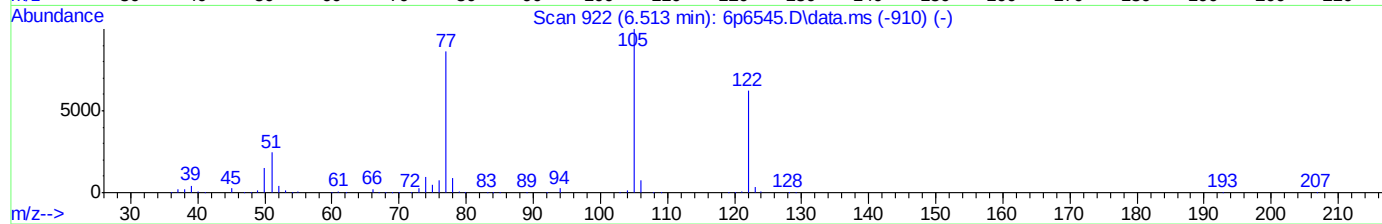
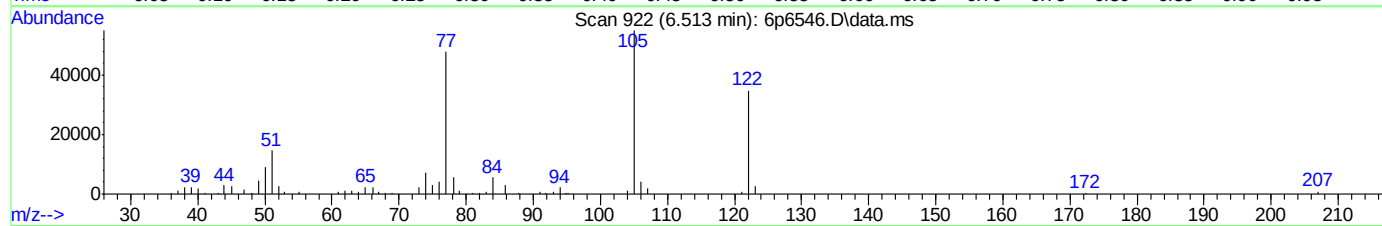
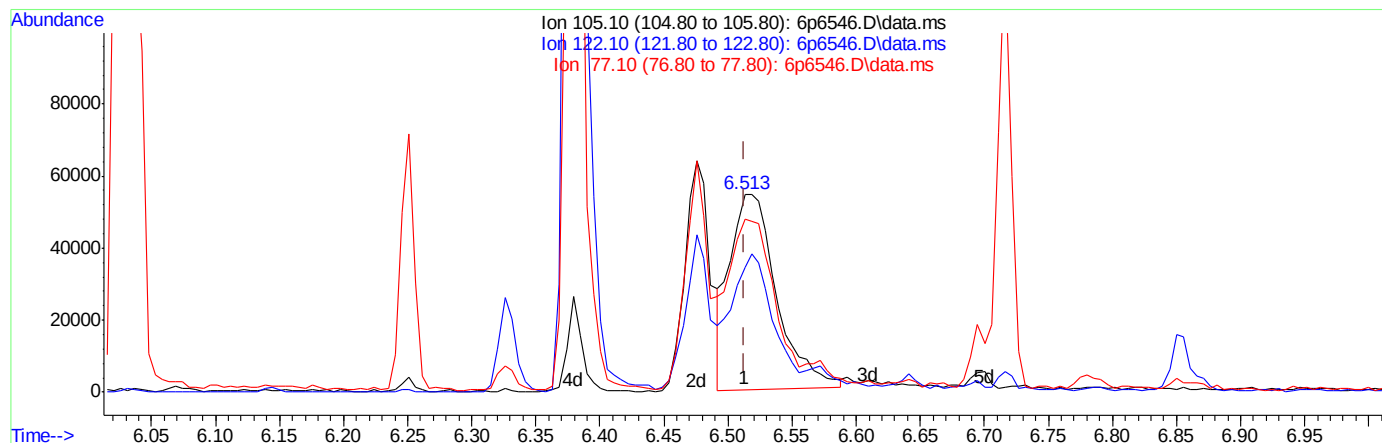
9.6.41.1

9

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p277\
Data File : 6p6546.D
Acq On : 27 Apr 2014 2:46 pm
Operator : ashleyd
Sample : ic277-25
Misc : op73158,e6p277
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 28 09:37:00 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Mon Apr 28 09:36:51 2014
Response via : Initial Calibration



TIC: 6p6546.D\data.ms

(31) Benzoic Acid

6.513min (0.000) 8.40ppb

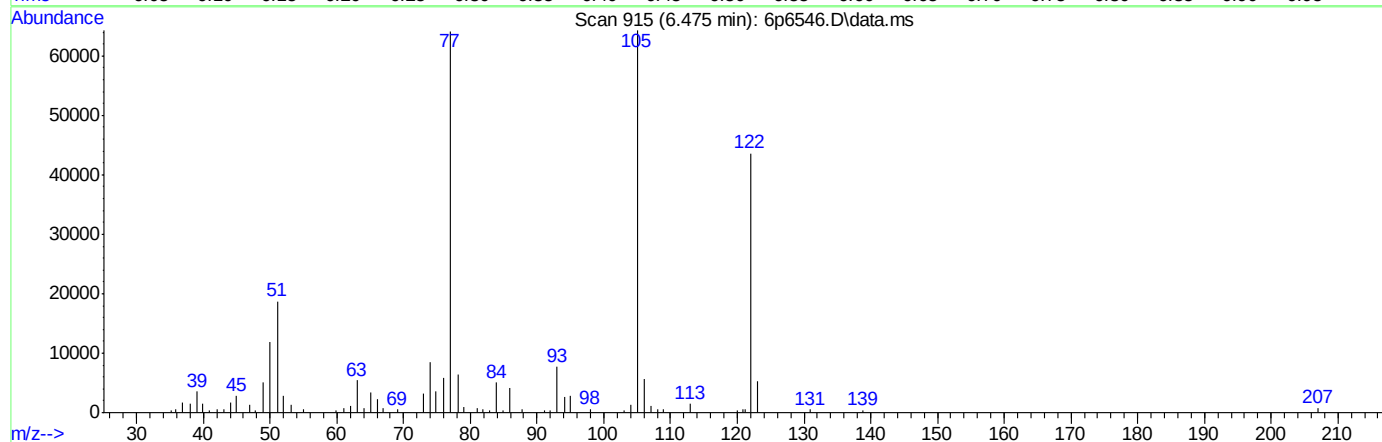
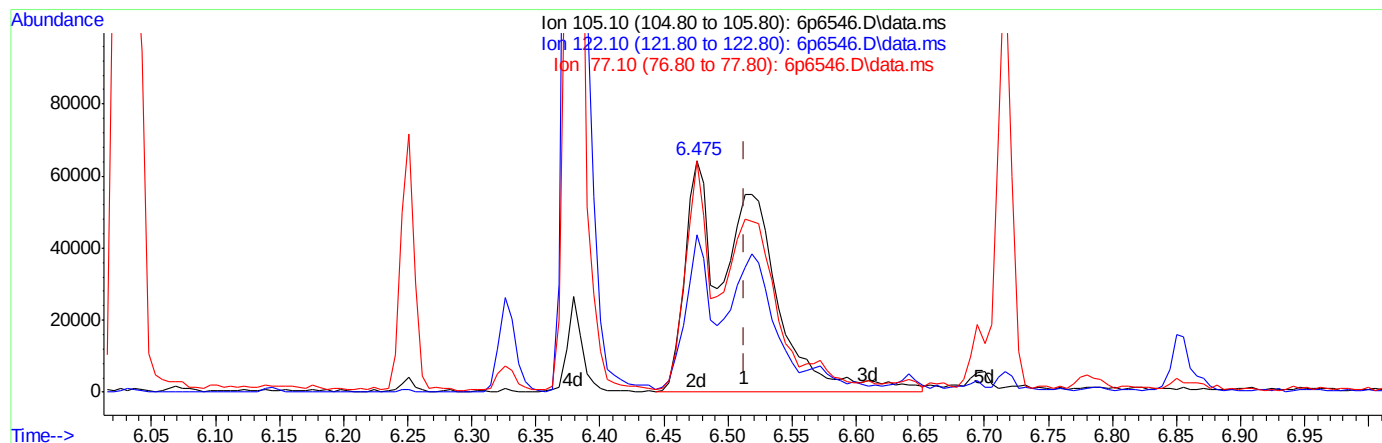
response 137552

Ion	Exp%	Act%
105.10	100	100
122.10	25.10	58.33#
77.10	34.70	89.17#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p277\
Data File : 6p6546.D
Acq On : 27 Apr 2014 2:46 pm
Operator : ashleyd
Sample : ic277-25
Misc : op73158,e6p277
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 28 09:38:47 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Mon Apr 28 09:36:51 2014
Response via : Initial Calibration



(31) Benzoic Acid

6.475min (-0.037) 14.81ppb m

response 242646

Ion	Exp%	Act%
105.10	100	100
122.10	25.10	33.07
77.10	34.70	50.55
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p277\
 Data File : 6p6547.D
 Acq On : 27 Apr 2014 3:15 pm
 Operator : ashleyd
 Sample : ic277-10
 Misc : op73158,e6p277
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 28 09:41:25 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Mon Apr 28 09:38:56 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.529	152	1466685	40.00	ppb	0.00
24) Naphthalene-d8	6.700	136	5841278	40.00	ppb	0.00
47) Acenaphthene-d10	8.808	164	3459945	40.00	ppb	0.00
69) Phenanthrene-d10	11.000	188	5749045	40.00	ppb	0.00
83) Chrysene-d12	15.215	240	5813608	40.00	ppb	0.00
92) Perylene-d12	17.344	264	5208027	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	5.529	152	1466685	40.00	ppb	0.00
104) Phenanthrene-d10a	11.000	188	5749045	40.00	ppb	0.00
107) Chrysene-d12a	15.215	240	5813608	40.00	ppb	0.00
110) Acenaphthene-d10a	8.808	164	3459945	40.00	ppb	0.00
112) Naphthalene-d8a	6.700	136	5841278	40.00	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol	4.341	112	525242	9.75	ppb	0.00
Spiked Amount	50.000		Recovery	=	19.50%	
8) Phenol-d5	5.256	99	775174	10.29	ppb	0.00
Spiked Amount	50.000		Recovery	=	20.58%	
25) Nitrobenzene-d5	6.016	82	770969	9.94	ppb	0.00
Spiked Amount	50.000		Recovery	=	19.88%	
51) 2-Fluorobiphenyl	7.920	172	1008381	9.91	ppb	0.00
Spiked Amount	50.000		Recovery	=	19.82%	
73) 2,4,6-Tribromophenol	9.941	330	148073	9.62	ppb	0.00
Spiked Amount	50.000		Recovery	=	19.24%	
86) Terphenyl-d14	13.568	244	1121844	9.86	ppb	0.00
Spiked Amount	50.000		Recovery	=	19.72%	
106) o-terphenyl	0.000	230	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
109) 1-chlorooctadecane	0.000	57	0d	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	

Target Compounds

Qvalue

2) 1,4-Dioxane	2.111	88	237457	8.69	ppb	99
3) Pyridine	2.512	79	570445	7.98	ppb	98
4) N-Nitrosodimethylamine	2.475	74	368724	9.19	ppb	99
6) Indene	5.753	116	919031	9.01	ppb	99
7) Cumene	4.823	105	1449607	8.98	ppb	99
9) Phenol	5.267	94	880568	9.98	ppb	96
10) Aniline	5.256	93	914083	9.48	ppb	90
11) bis(2-Chloroethyl)ether	5.315	93	600565	9.72	ppb	95
12) 2-Chlorophenol	5.358	128	487705	9.53	ppb	98
13) Decane	5.416	43	343435	9.11	ppb	94
14) 1,3-Dichlorobenzene	5.481	146	510861	9.55	ppb	98
15) 1,4-Dichlorobenzene	5.545	146	519619	9.57	ppb	97
16) Benzyl alcohol	5.663	108	375317	10.07	ppb	98
17) 1,2-Dichlorobenzene	5.673	146	486412	9.67	ppb	96
18) Acetophenone	5.882	105	867719	9.08	ppb	95
19) 2-Methylphenol	5.775	108	522958	10.03	ppb	97
20) 2,2'-oxybis(1-Chloropr...	5.775	121	174168	9.78	ppb	95
21) 3&4-Methylphenol	5.903	108	547127	9.67	ppb	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p277\
 Data File : 6p6547.D
 Acq On : 27 Apr 2014 3:15 pm
 Operator : ashleyd
 Sample : ic277-10
 Misc : op73158,e6p277
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 28 09:41:25 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Mon Apr 28 09:38:56 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
22) n-Nitroso-di-n-propyla...	5.887	70	496658	10.15	ppb	98
23) Hexachloroethane	5.973	201	172969	9.65	ppb	98
26) Nitrobenzene	6.032	77	785855	9.79	ppb	99
27) Quinoline	7.064	129	949765	8.91	ppb	98
28) Isophorone	6.251	82	1308579	9.90	ppb	99
29) 2-Nitrophenol	6.326	139	252814	9.77	ppb	90
30) 2,4-Dimethylphenol	6.379	107	482635	7.94	ppb	96
31) Benzoic Acid	6.476	105	180857m	4.71	ppb	
32) bis(2-Chloroethoxy)met...	6.459	93	691019	9.48	ppb	98
33) 2,4-Dichlorophenol	6.566	162	362475	9.60	ppb	94
34) 2,6-Dichlorophenol	6.791	162	358491	9.45	ppb	99
35) 1,3,5-Trichlorobenzene	6.336	180	426490	9.03	ppb	97
36) 1,2,4-Trichlorobenzene	6.641	180	412454	9.62	ppb	97
37) 1,2,3-Trichlorobenzene	6.871	180	401278	8.93	ppb	98
38) Naphthalene	6.716	128	1421469	9.46	ppb	99
39) 4-Chloroaniline	6.780	127	611050	9.69	ppb	97
40) 2,3-Dichloroaniline	7.813	161	470074	8.98	ppb	98
41) Caprolactam	7.144	55	193426	9.17	ppb	95
42) Hexachlorobutadiene	6.855	225	235986	9.80	ppb	96
43) 4-Chloro-3-methylphenol	7.321	107	544330	9.58	ppb	99
44) 2-Methylnaphthalene	7.470	141	822397	9.72	ppb	97
45) 1-Methylnaphthalene	7.583	141	794577	8.92	ppb	98
46) Dimethylnaphthalene	8.246	156	857656	8.92	ppb	100
48) Hexachlorocyclopentadiene	7.668	237	437956	17.85	ppb	100
49) 2,4,6-Trichlorophenol	7.823	196	262680	9.42	ppb	98
50) 2,4,5-Trichlorophenol	7.872	196	287884	10.02	ppb	99
52) 2-Chloronaphthalene	8.064	162	879762	9.61	ppb	98
53) Biphenyl	8.043	154	1156382	8.90	ppb	98
54) 2-Nitroaniline	8.203	65	394683	9.66	ppb	96
55) Dimethylphthalate	8.454	163	987618	9.60	ppb	99
56) Acenaphthylene	8.604	152	1420389	9.45	ppb	99
57) 2,6-Dinitrotoluene	8.529	165	228860	9.61	ppb	100
58) 3-Nitroaniline	8.754	138	269053	10.02	ppb	90
59) Acenaphthene	8.845	153	886277	9.33	ppb	100
60) 2,4-Dinitrophenol	8.909	184	196589	13.61	ppb	98
61) 4-Nitrophenol	9.043	109	181472	7.83	ppb	# 76
62) Dibenzofuran	9.086	168	1244199	9.63	ppb	99
63) 2,4-Dinitrotoluene	9.091	165	322692	9.91	ppb	97
64) 2,3,4,6-Tetrachlorophenol	9.284	232	225078	9.68	ppb	96
65) Diethylphthalate	9.460	149	1056958	9.63	ppb	99
66) Fluorene	9.583	166	1021853	9.51	ppb	100
67) 4-Chlorophenyl-phenyle...	9.599	204	449461	9.67	ppb	96
68) 4-Nitroaniline	9.631	138	258214	9.83	ppb	98
70) 4,6-Dinitro-2-methylph...	9.690	198	158378	7.90	ppb	98
71) n-Nitrosodiphenylamine	9.781	169	689673	9.55	ppb	98
72) 1,2-Diphenylhydrazine	9.834	77	1631828	9.88	ppb	98
74) 4-Bromophenyl-phenylether	10.332	248	260595	9.51	ppb	95
75) Hexachlorobenzene	10.417	284	313562	9.56	ppb	97
76) Pentachlorophenol	10.733	266	306879	19.69	ppb	95
77) Phenanthrene	11.033	178	1443445	9.24	ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p277\
 Data File : 6p6547.D
 Acq On : 27 Apr 2014 3:15 pm
 Operator : ashleyd
 Sample : ic277-10
 Misc : op73158,e6p277
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 28 09:41:25 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Mon Apr 28 09:38:56 2014
 Response via : Initial Calibration

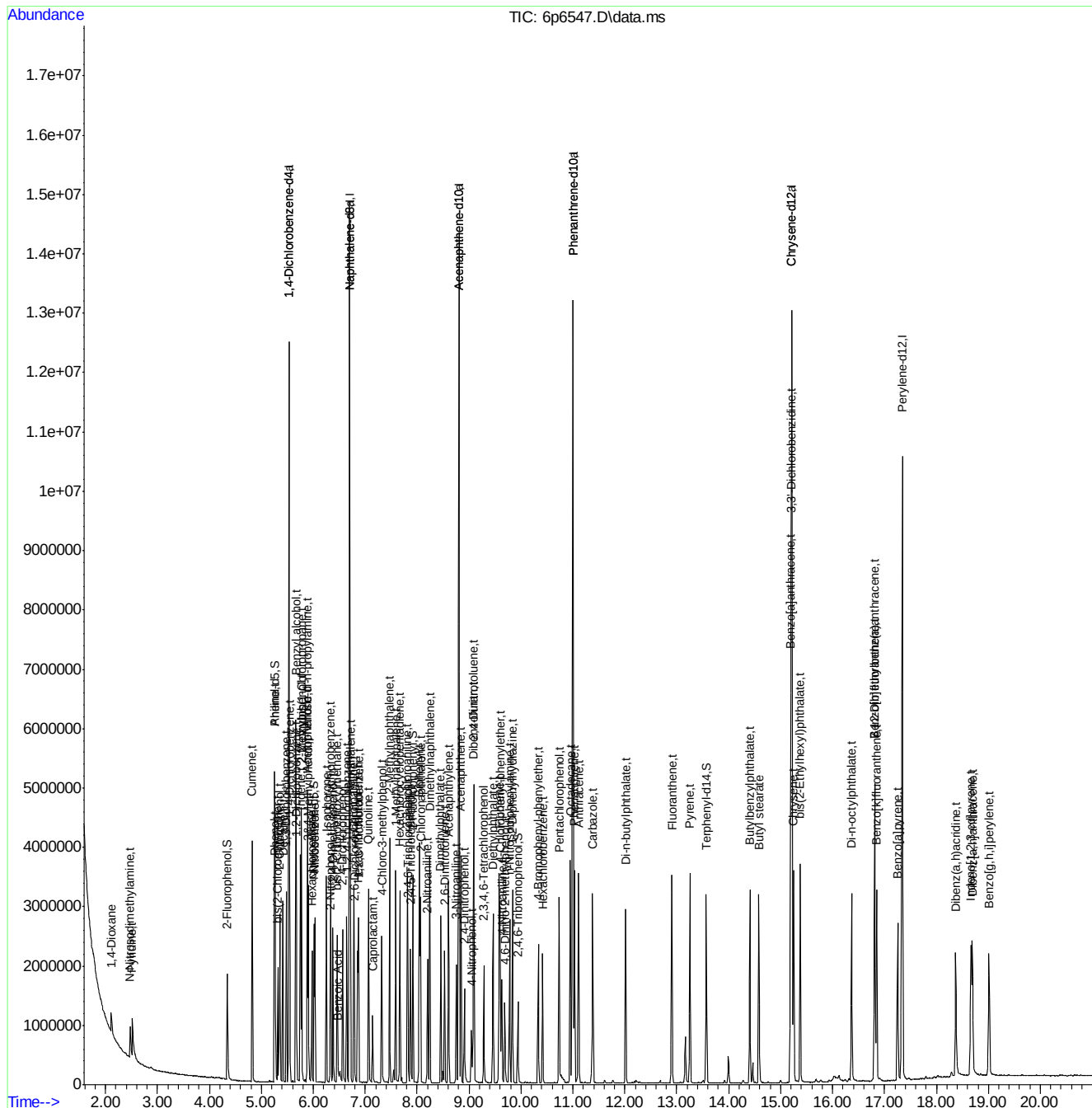
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78) Anthracene	11.107	178	1474443	9.42	ppb	99
79) Carbazole	11.380	167	1411564	9.01	ppb	99
80) Di-n-butylphthalate	12.017	149	1801804	9.80	ppb	99
81) Fluoranthene	12.905	202	1581810	9.57	ppb	98
82) Octadecane	10.947	57	696887	9.43	ppb	99
84) Pyrene	13.252	202	1647365	9.50	ppb	99
85) Butyl stearate	14.579	56	425461	10.10	ppb	95
87) Butylbenzylphthalate	14.408	149	821657	9.85	ppb	98
88) Benzo[a]anthracene	15.194	228	1481449	9.43	ppb	99
89) 3,3'-Dichlorobenzidine	15.199	252	532396	9.81	ppb	99
90) Chrysene	15.247	228	1372106	9.45	ppb	99
91) bis(2-Ethylhexyl)phtha...	15.376	149	1119404	9.90	ppb	98
93) Di-n-octylphthalate	16.365	149	1927955	10.17	ppb	99
94) Benzo[b]fluoranthene	16.809	252	1475155	9.22	ppb	97
95) Benzo[k]fluoranthene	16.847	252	1462686	10.25	ppb	98
96) Benzo[a]pyrene	17.253	252	1320743	9.70	ppb	99
97) Indeno[1,2,3-cd]pyrene	18.665	276	1372261m	9.24	ppb	
98) Dibenz(a,h)acridine	18.376	279	1157529	9.18	ppb	99
99) Dibenz[a,h]anthracene	18.692	278	1283773	9.58	ppb	99
100) 7,12-Dimethylbenz(a)an...	16.809	256	524785	7.32	ppb	99
101) Benzo[g,h,i]perylene	19.013	276	1268961	9.55	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p277\
Data File : 6p6547.D
Acq On : 27 Apr 2014 3:15 pm
Operator : ashleyd
Sample : ic277-10
Misc : op73158,e6p277
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 28 09:41:25 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Mon Apr 28 09:38:56 2014
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: E6P277-IC277

Method: SW846 8270D

Lab FileID: 6P6547.D

Analyst approved: 04/28/14 13:35 Emily Pisarski

Injection Time: 04/27/14 15:15

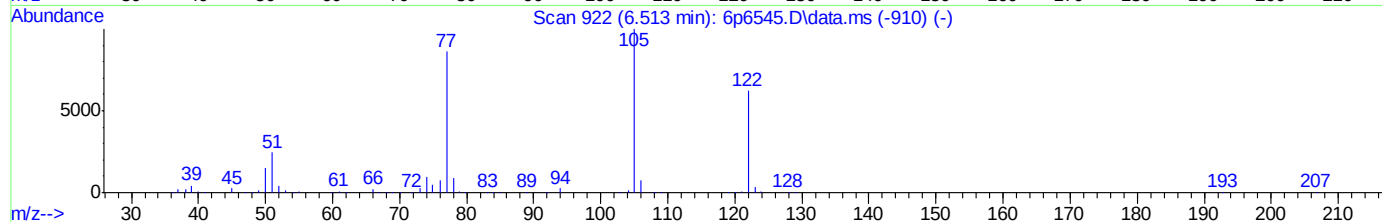
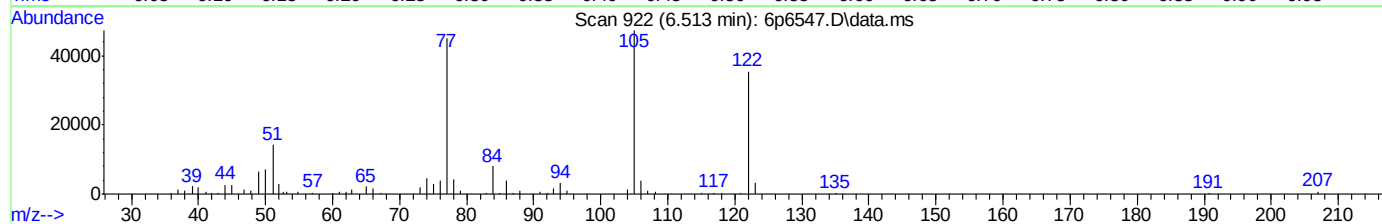
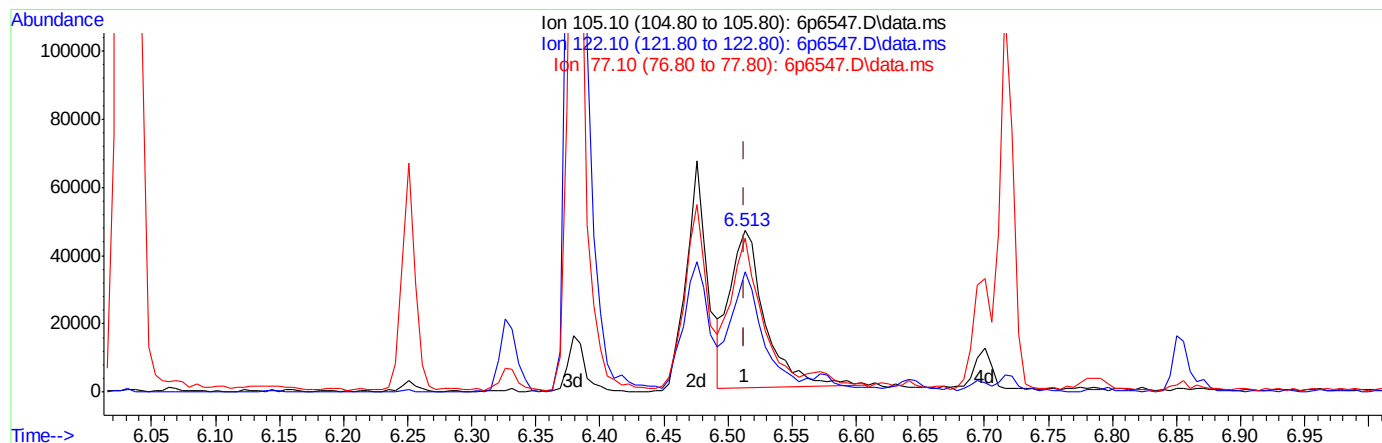
Supervisor approved: 04/28/14 15:39 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic acid	65-85-0		6.48	Poor instrument integration
Indeno(1,2,3-cd)pyrene	193-39-5		18.67	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\6p277\
Data File : 6p6547.D
Acq On : 27 Apr 2014 3:15 pm
Operator : ashleyd
Sample : ic277-10
Misc : op73158,e6p277
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 28 09:40:01 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Mon Apr 28 09:38:56 2014
Response via : Initial Calibration



TIC: 6p6547.D\data.ms

(31) Benzoic Acid

6.513min (+0.000) 2.32ppb

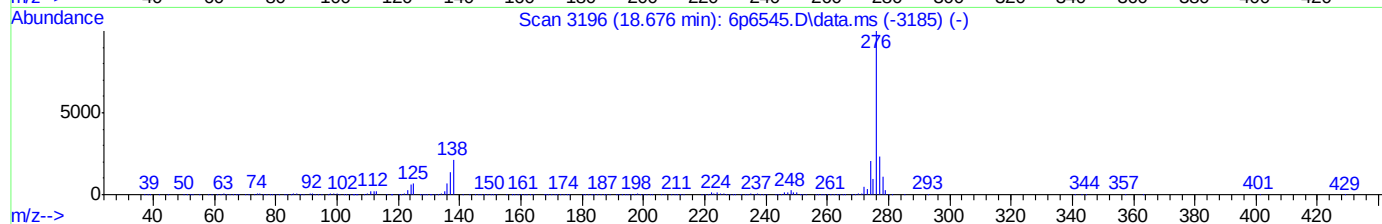
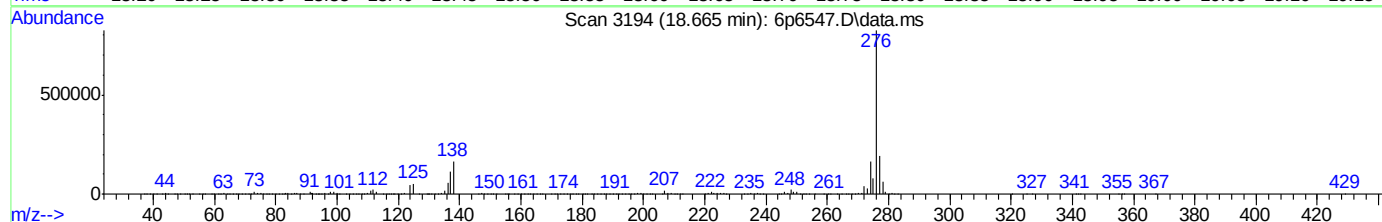
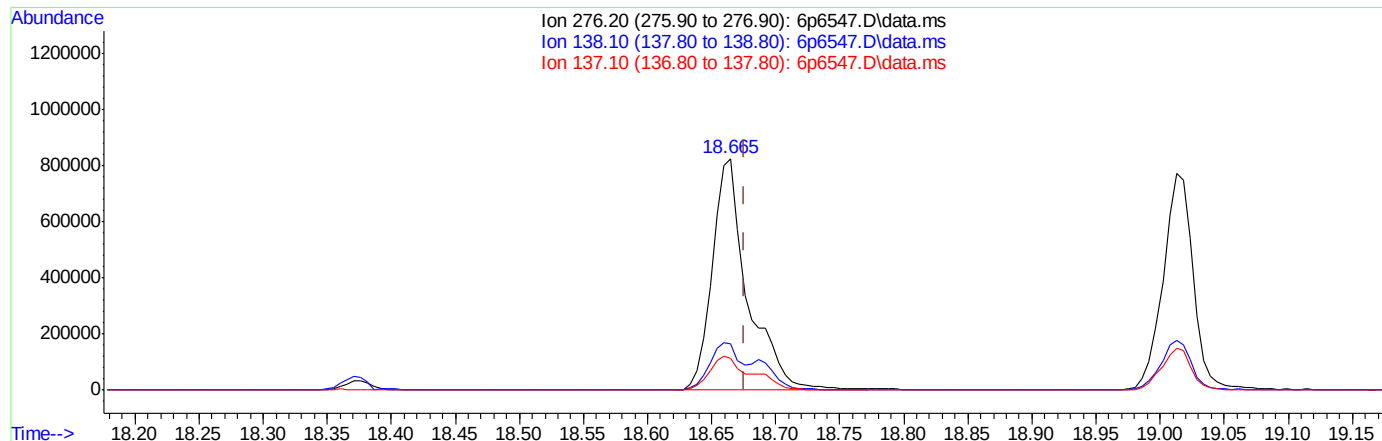
response 89114

Ion	Exp%	Act%
105.10	100	100
122.10	25.10	68.36#
77.10	34.70	85.71#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\6p277\
Data File : 6p6547.D
Acq On : 27 Apr 2014 3:15 pm
Operator : ashleyd
Sample : ic277-10
Misc : op73158,e6p277
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 28 09:40:01 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Mon Apr 28 09:38:56 2014
Response via : Initial Calibration



(97) Indeno[1,2,3-cd]pyrene (t)

18.665min (-0.011) 10.62ppb

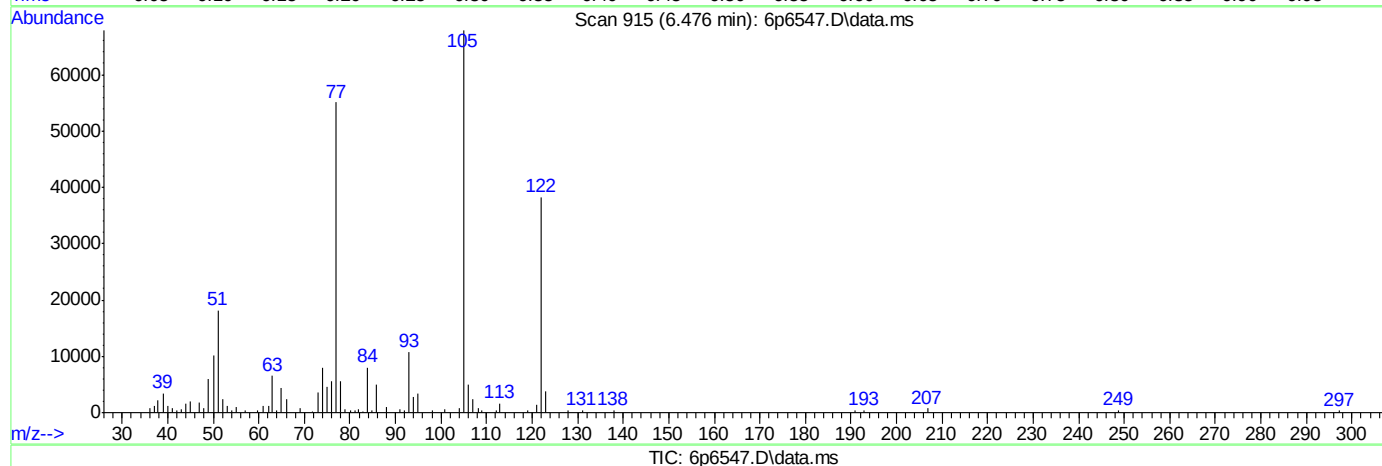
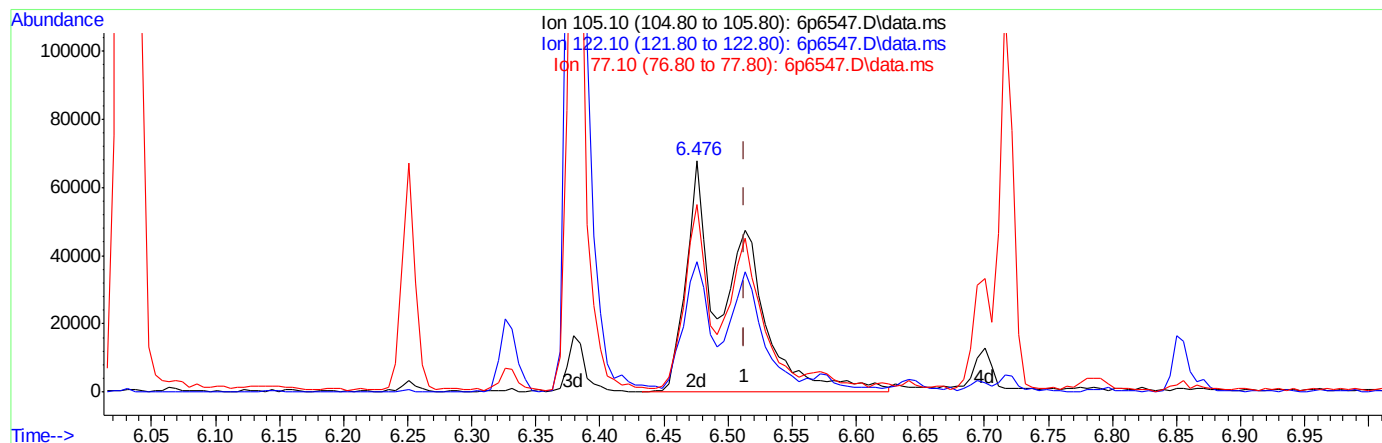
response 1576969

Ion	Exp%	Act%
276.20	100	100
138.10	17.00	20.07
137.10	11.90	13.40
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\6p277\
Data File : 6p6547.D
Acq On : 27 Apr 2014 3:15 pm
Operator : ashleyd
Sample : ic277-10
Misc : op73158,e6p277
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 28 09:41:25 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Mon Apr 28 09:38:56 2014
Response via : Initial Calibration



(31) Benzoic Acid

6.476min (-0.037) 4.71ppb m

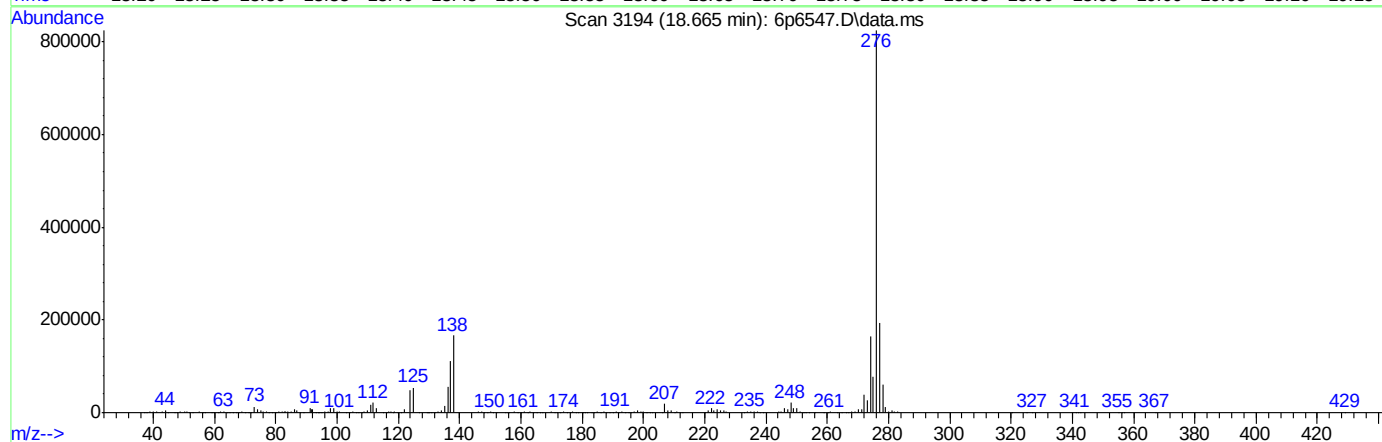
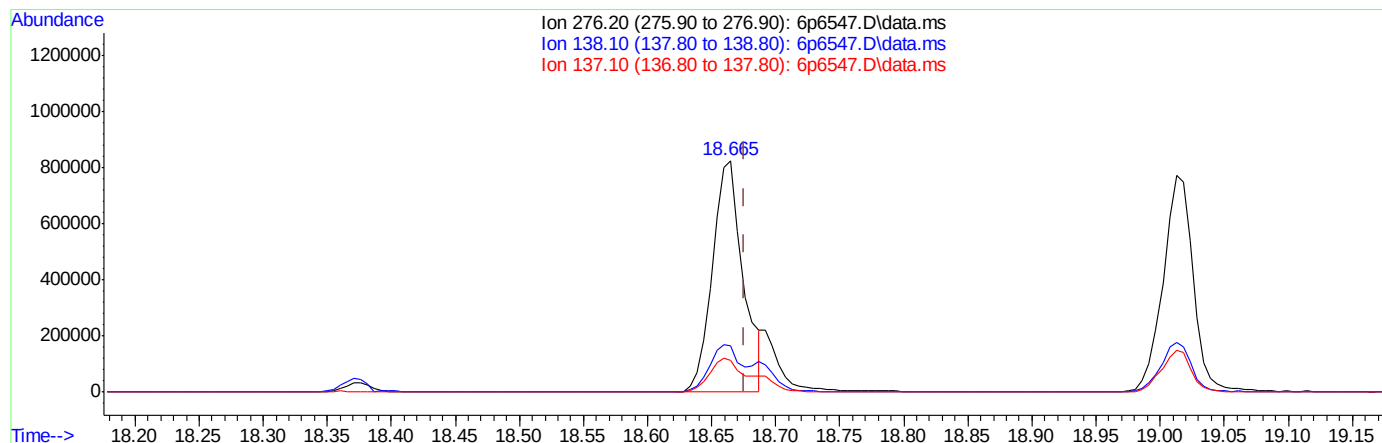
response 180857

Ion	Exp%	Act%
105.10	100	100
122.10	25.10	33.68
77.10	34.70	42.23
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p277\
Data File : 6p6547.D
Acq On : 27 Apr 2014 3:15 pm
Operator : ashleyd
Sample : ic277-10
Misc : op73158,e6p277
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 28 09:41:25 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Mon Apr 28 09:38:56 2014
Response via : Initial Calibration



(97) Indeno[1,2,3-cd]pyrene (t)

18.665min (-0.011) 9.24ppb m

response 1372261

Ion	Exp%	Act%
276.20	100	100
138.10	17.00	20.21
137.10	11.90	13.54
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p277\
 Data File : 6p6548.D
 Acq On : 27 Apr 2014 3:43 pm
 Operator : ashleyd
 Sample : ic277-5
 Misc : op73158,e6p277
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 28 09:43:56 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Mon Apr 28 09:41:39 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.534	152	1094230	40.00	ppb	0.00
24) Naphthalene-d8	6.700	136	4349911	40.00	ppb	0.00
47) Acenaphthene-d10	8.808	164	2543599	40.00	ppb	0.00
69) Phenanthrene-d10	11.000	188	4217309	40.00	ppb	0.00
83) Chrysene-d12	15.221	240	4332893	40.00	ppb	0.00
92) Perylene-d12	17.349	264	3872260	40.00	ppb	0.01
102) 1,4-Dichlorobenzene-d4a	5.534	152	1094230	40.00	ppb	0.00
104) Phenanthrene-d10a	11.000	188	4217309	40.00	ppb	0.00
107) Chrysene-d12a	15.221	240	4332893	40.00	ppb	0.00
110) Acenaphthene-d10a	8.808	164	2543599	40.00	ppb	0.00
112) Naphthalene-d8a	6.700	136	4349911	40.00	ppb	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	4.347	112	200139	5.00	ppb	0.00
Spiked Amount	50.000		Recovery	=	10.00%	
8) Phenol-d5	5.256	99	298564	5.29	ppb	0.00
Spiked Amount	50.000		Recovery	=	10.58%	
25) Nitrobenzene-d5	6.016	82	298747	5.18	ppb	0.00
Spiked Amount	50.000		Recovery	=	10.36%	
51) 2-Fluorobiphenyl	7.920	172	389354	5.21	ppb	0.00
Spiked Amount	50.000		Recovery	=	10.42%	
73) 2,4,6-Tribromophenol	9.947	330	55209	4.92	ppb	0.00
Spiked Amount	50.000		Recovery	=	9.84%	
86) Terphenyl-d14	13.573	244	440161	5.20	ppb	0.00
Spiked Amount	50.000		Recovery	=	10.40%	
106) o-terphenyl	0.000	230	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
109) 1-chlorooctadecane	0.000	57	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	

Target Compounds						Qvalue
2) 1,4-Dioxane	2.116	88	81030	4.06	ppb	91
3) Pyridine	2.523	79	237205	4.60	ppb	96
4) N-Nitrosodimethylamine	2.475	74	146021	4.95	ppb	100
6) Indene	5.753	116	357993	4.78	ppb	97
7) Cumene	4.823	105	560258	4.73	ppb	97
9) Phenol	5.267	94	334155	5.08	ppb	92
10) Aniline	5.256	93	383686	5.38	ppb	95
11) bis(2-Chloroethyl)ether	5.320	93	234297	5.11	ppb	99
12) 2-Chlorophenol	5.358	128	192435	5.08	ppb	99
13) Decane	5.416	43	142915	5.16	ppb	98
14) 1,3-Dichlorobenzene	5.481	146	201956	5.10	ppb	98
15) 1,4-Dichlorobenzene	5.545	146	198457	4.93	ppb	100
16) Benzyl alcohol	5.663	108	141963	5.10	ppb	98
17) 1,2-Dichlorobenzene	5.679	146	194318	5.21	ppb	99
18) Acetophenone	5.882	105	338677	4.82	ppb	94
19) 2-Methylphenol	5.775	108	193816	4.98	ppb	100
20) 2,2'-oxybis(1-Chloropr...	5.780	121	66731	5.04	ppb	99
21) 3&4-Methylphenol	5.909	108	210686	5.02	ppb	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p277\
 Data File : 6p6548.D
 Acq On : 27 Apr 2014 3:43 pm
 Operator : ashleyd
 Sample : ic277-5
 Misc : op73158,e6p277
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 28 09:43:56 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Mon Apr 28 09:41:39 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
22) n-Nitroso-di-n-propyla...	5.887	70	197037	5.39	ppb	97
23) Hexachloroethane	5.973	201	66905	5.03	ppb	97
26) Nitrobenzene	6.032	77	303698	5.10	ppb	96
27) Quinoline	7.069	129	375591	4.82	ppb	99
28) Isophorone	6.251	82	504031	5.13	ppb	99
29) 2-Nitrophenol	6.331	139	97087	5.06	ppb	87
30) 2,4-Dimethylphenol	6.385	107	179485	4.11	ppb	98
31) Benzoic Acid	6.486	105	40840m	1.60	ppb	
32) bis(2-Chloroethoxy)met...	6.459	93	280498	5.21	ppb	98
33) 2,4-Dichlorophenol	6.566	162	135195	4.84	ppb	95
34) 2,6-Dichlorophenol	6.791	162	142607	5.10	ppb	99
35) 1,3,5-Trichlorobenzene	6.342	180	172785	4.99	ppb	99
36) 1,2,4-Trichlorobenzene	6.647	180	160813	5.07	ppb	96
37) 1,2,3-Trichlorobenzene	6.871	180	163682	4.98	ppb	96
38) Naphthalene	6.716	128	558301	5.03	ppb	99
39) 4-Chloroaniline	6.780	127	239220	5.12	ppb	99
40) 2,3-Dichloroaniline	7.813	161	188910	4.93	ppb	99
41) Caprolactam	7.128	55	70859	4.58	ppb	95
42) Hexachlorobutadiene	6.855	225	90829	5.08	ppb	97
43) 4-Chloro-3-methylphenol	7.321	107	207468	4.94	ppb	97
44) 2-Methylnaphthalene	7.470	141	315538	5.03	ppb	99
45) 1-Methylnaphthalene	7.588	141	309653	4.75	ppb	98
46) Dimethylnaphthalene	8.246	156	334157	4.75	ppb	96
48) Hexachlorocyclopentadiene	7.668	237	151604	8.56	ppb	95
49) 2,4,6-Trichlorophenol	7.823	196	95618	4.71	ppb	93
50) 2,4,5-Trichlorophenol	7.872	196	103795	4.91	ppb	98
52) 2-Chloronaphthalene	8.064	162	346398	5.18	ppb	99
53) Biphenyl	8.043	154	455108	4.85	ppb	96
54) 2-Nitroaniline	8.203	65	153935	5.15	ppb	95
55) Dimethylphthalate	8.455	163	390325	5.19	ppb	99
56) Acenaphthylene	8.604	152	555278	5.07	ppb	98
57) 2,6-Dinitrotoluene	8.529	165	88119	5.06	ppb	97
58) 3-Nitroaniline	8.759	138	98986	5.01	ppb	91
59) Acenaphthene	8.850	153	351239	5.09	ppb	98
60) 2,4-Dinitrophenol	8.915	184	53316	5.36	ppb	89
61) 4-Nitrophenol	9.059	109	66739	4.10	ppb	# 79
62) Dibenzofuran	9.091	168	484805	5.13	ppb	99
63) 2,4-Dinitrotoluene	9.096	165	125182	5.24	ppb	86
64) 2,3,4,6-Tetrachlorophenol	9.289	232	81981	4.82	ppb	97
65) Diethylphthalate	9.465	149	410224	5.12	ppb	98
66) Fluorene	9.583	166	403267	5.15	ppb	98
67) 4-Chlorophenyl-phenyle...	9.604	204	178241	5.24	ppb	97
68) 4-Nitroaniline	9.631	138	97083	5.04	ppb	93
70) 4,6-Dinitro-2-methylph...	9.690	198	51675	3.67	ppb	97
71) n-Nitrosodiphenylamine	9.786	169	267293	5.08	ppb	97
72) 1,2-Diphenylhydrazine	9.840	77	636634	5.27	ppb	98
74) 4-Bromophenyl-phenylether	10.337	248	102399	5.14	ppb	94
75) Hexachlorobenzene	10.417	284	123142	5.16	ppb	95
76) Pentachlorophenol	10.738	266	99174	8.70	ppb	97
77) Phenanthrene	11.033	178	573919	5.07	ppb	100

9.6.43
9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p277\
 Data File : 6p6548.D
 Acq On : 27 Apr 2014 3:43 pm
 Operator : ashleyd
 Sample : ic277-5
 Misc : op73158,e6p277
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 28 09:43:56 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Mon Apr 28 09:41:39 2014
 Response via : Initial Calibration

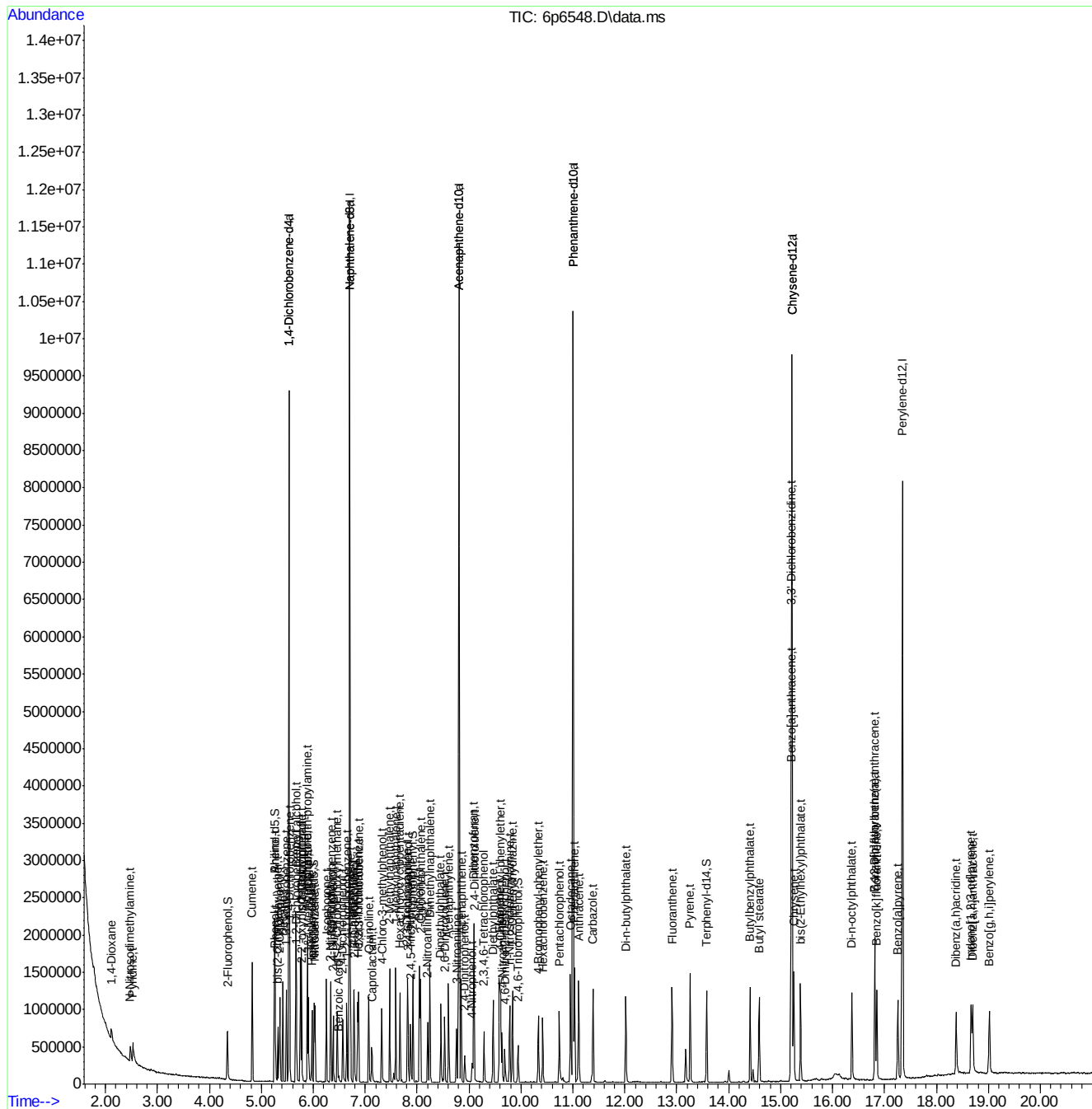
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78) Anthracene	11.113	178	585710	5.15	ppb	99
79) Carbazole	11.386	167	557296	4.93	ppb	100
80) Di-n-butylphthalate	12.017	149	687061	5.11	ppb	99
81) Fluoranthene	12.910	202	608279	5.05	ppb	98
82) Octadecane	10.952	57	265681	4.95	ppb	99
84) Pyrene	13.258	202	645723	5.04	ppb	98
85) Butyl stearate	14.584	56	160825	5.11	ppb	96
87) Butylbenzylphthalate	14.413	149	305988	4.93	ppb	98
88) Benzo[a]anthracene	15.199	228	585982	5.05	ppb	99
89) 3,3'-Dichlorobenzidine	15.204	252	198562	4.92	ppb	98
90) Chrysene	15.253	228	532819	4.97	ppb	97
91) bis(2-Ethylhexyl)phtha...	15.386	149	416299	4.95	ppb	97
93) Di-n-octylphthalate	16.371	149	715148	5.06	ppb	98
94) Benzo[b]fluoranthene	16.814	252	581057	4.95	ppb	95
95) Benzo[k]fluoranthene	16.852	252	573850	5.39	ppb	98
96) Benzo[a]pyrene	17.258	252	510557	5.07	ppb	98
97) Indeno[1,2,3-cd]pyrene	18.665	276	496508m	4.55	ppb	
98) Dibenz(a,h)acridine	18.382	279	443848	4.80	ppb	97
99) Dibenz[a,h]anthracene	18.697	278	513360	5.19	ppb	99
100) 7,12-Dimethylbenz(a)an...	16.814	256	182058	3.58	ppb	97
101) Benzo[g,h,i]perylene	19.018	276	510381	5.20	ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p277\
Data File : 6p6548.D
Acq On : 27 Apr 2014 3:43 pm
Operator : ashleyd
Sample : ic277-5
Misc : op73158,6p277
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 28 09:43:56 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Mon Apr 28 09:41:39 2014
Response via : Initial Calibration



9.6.43

Manual Integration Approval Summary

Sample Number: E6P277-IC277

Method: SW846 8270D

Lab FileID: 6P6548.D

Analyst approved: 04/28/14 13:35 Emily Pisarski

Injection Time: 04/27/14 15:43

Supervisor approved: 04/28/14 15:39 Nina Pandya

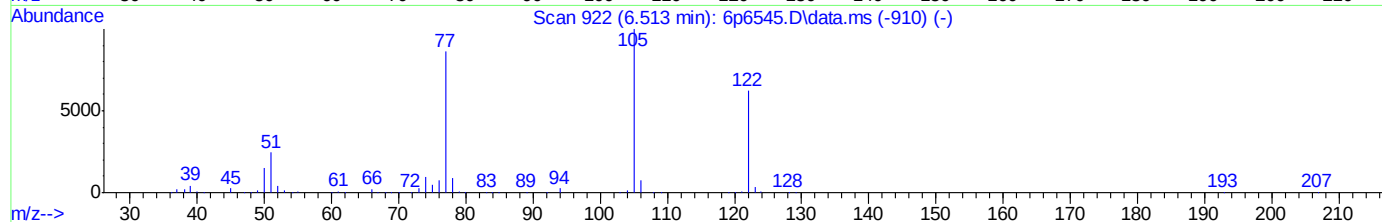
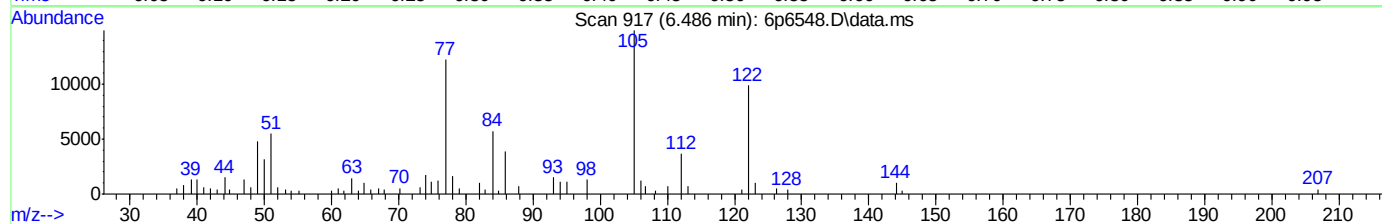
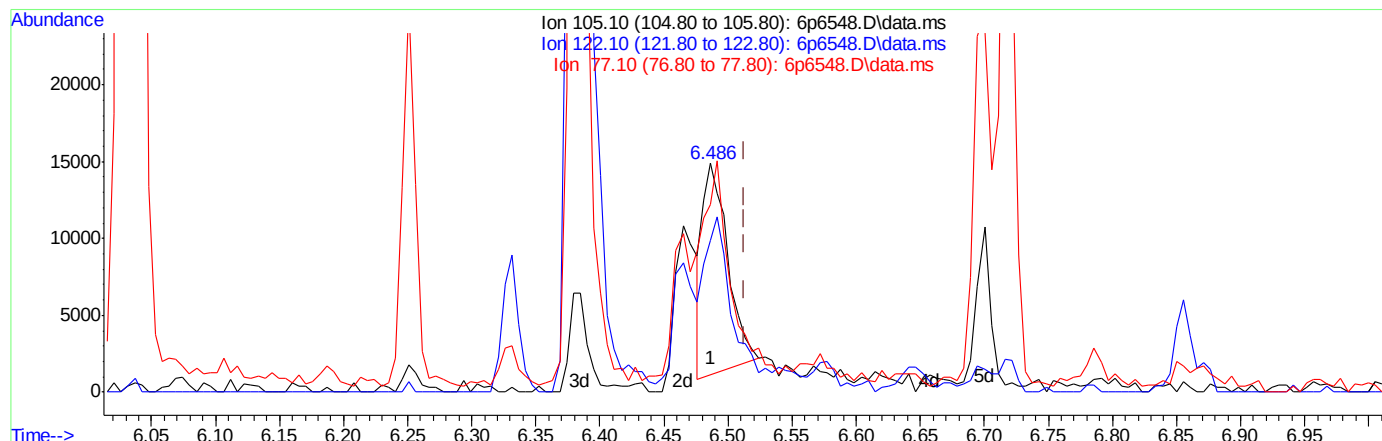
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic acid	65-85-0		6.49	Poor instrument integration
Indeno(1,2,3-cd)pyrene	193-39-5		18.67	Poor instrument integration

9.6.43.1
9

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\6p277\
Data File : 6p6548.D
Acq On : 27 Apr 2014 3:43 pm
Operator : ashleyd
Sample : ic277-5
Misc : op73158,e6p277
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 28 09:42:38 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Mon Apr 28 09:41:39 2014
Response via : Initial Calibration



TIC: 6p6548.D\data.ms

(31) Benzoic Acid

6.486min (-0.027) 0.74ppb

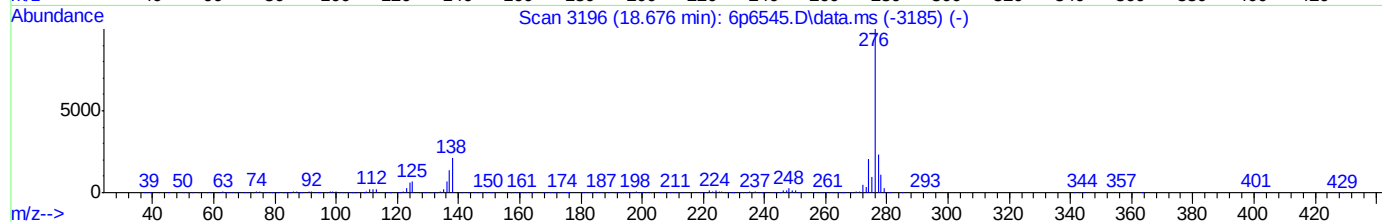
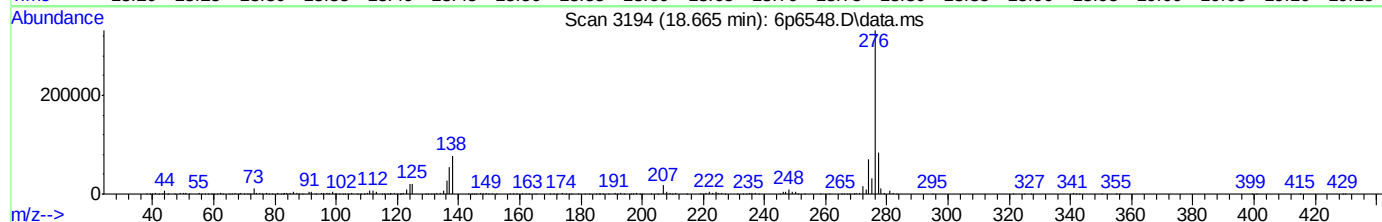
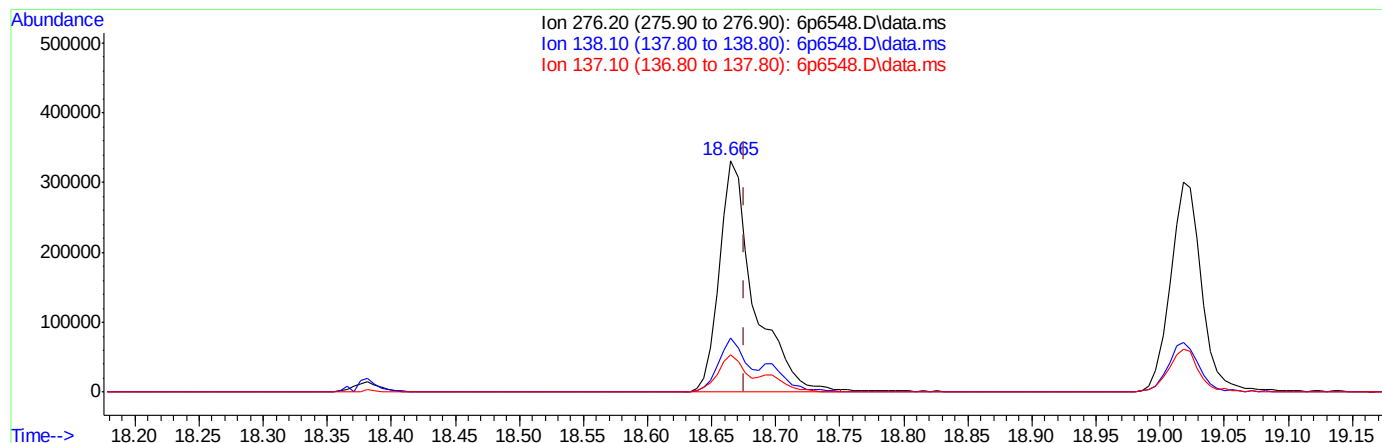
response 18848

Ion	Exp%	Act%
105.10	100	100
122.10	25.10	74.62#
77.10	34.70	118.07#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\6p277\
Data File : 6p6548.D
Acq On : 27 Apr 2014 3:43 pm
Operator : ashleyd
Sample : ic277-5
Misc : op73158,e6p277
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 28 09:42:38 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Mon Apr 28 09:41:39 2014
Response via : Initial Calibration



(97) Indeno[1,2,3-cd]pyrene (t)

18.665min (-0.011) 5.69ppb

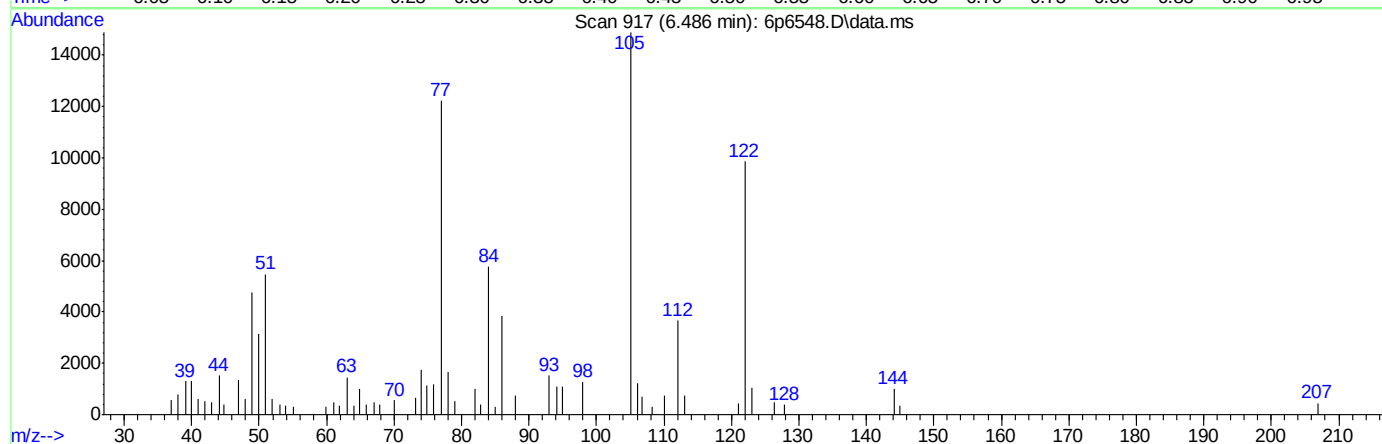
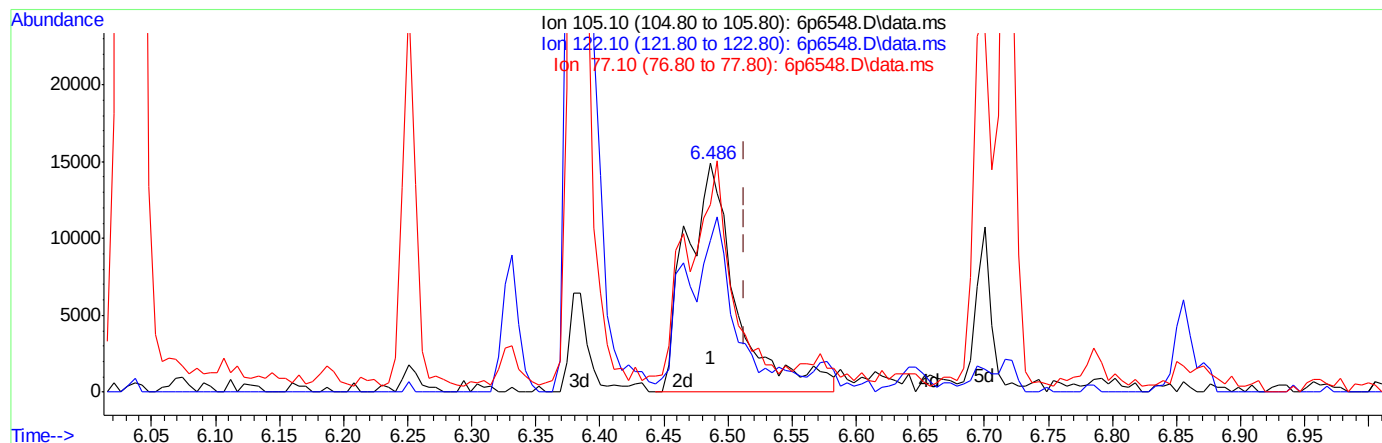
response 620539

Ion	Exp%	Act%
276.20	100	100
138.10	17.00	23.39
137.10	11.90	16.01
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\6p277\
Data File : 6p6548.D
Acq On : 27 Apr 2014 3:43 pm
Operator : ashleyd
Sample : ic277-5
Misc : op73158,e6p277
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 28 09:43:56 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Mon Apr 28 09:41:39 2014
Response via : Initial Calibration



(31) Benzoic Acid

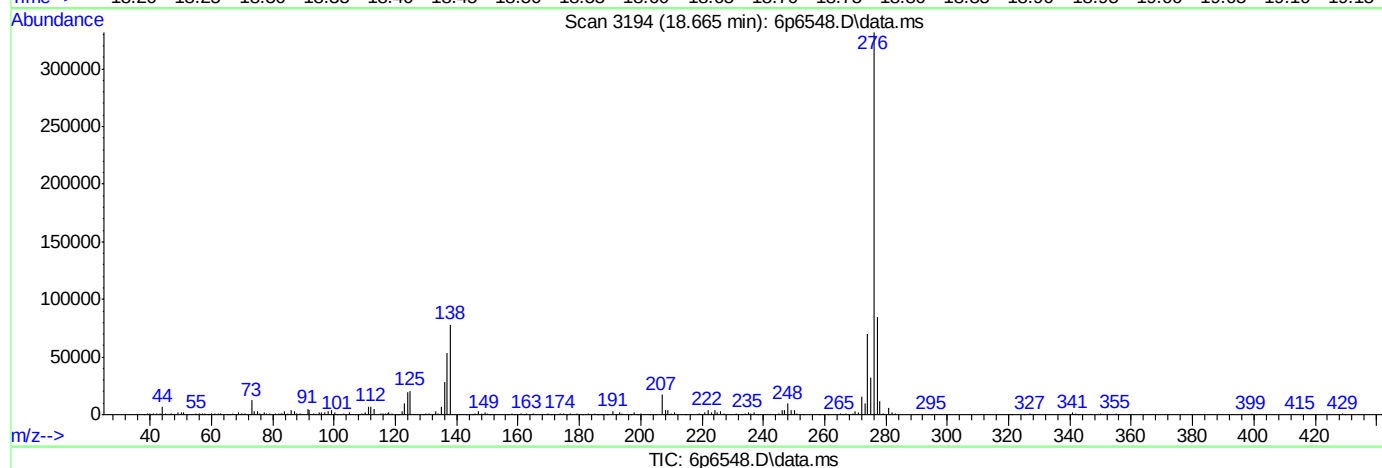
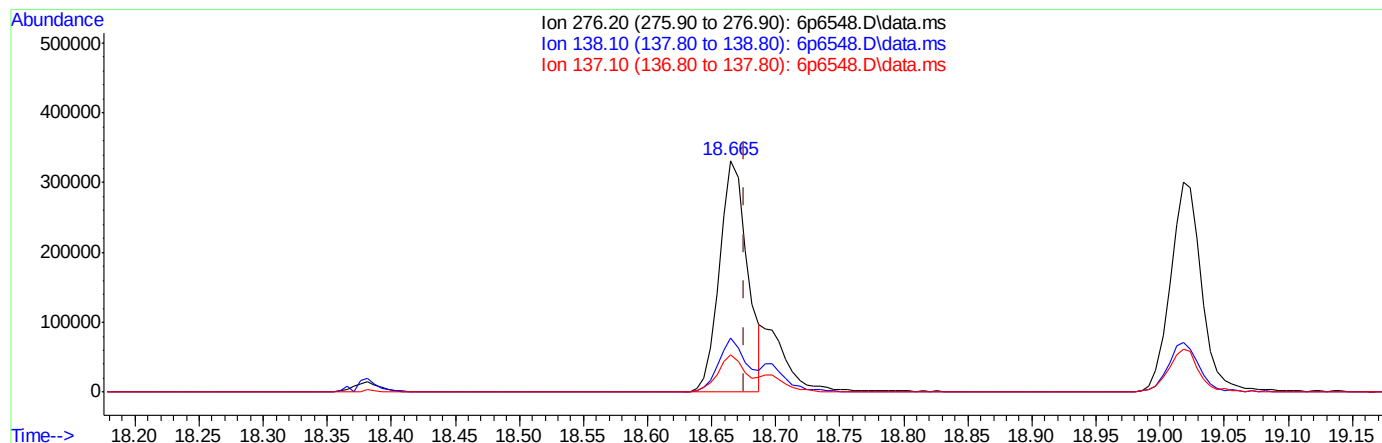
6.486min (-0.027) 1.60ppb m

response 40840

Ion	Exp%	Act%
105.10	100	100
122.10	25.10	34.44
77.10	34.70	54.49
0.00	0.00	0.00

```
Data Path   : C:\msdchem\1\DATA\6p277\
Data File   : 6p6548.D
Acq On      : 27 Apr 2014    3:43 pm
Operator    : ashleyd
Sample      : ic277-5
Misc        : op73158,6p277
ALS Vial    : 8      Sample Multiplier: 1
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Quant Time: Apr 28 09:43:56 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Mon Apr 28 09:41:39 2014
Response via : Initial Calibration



Ion	Exp%	Act%
276.20	100	100
138.10	17.00	23.4
137.10	11.90	16.1
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p277\
 Data File : 6p6549.D
 Acq On : 27 Apr 2014 4:11 pm
 Operator : ashleyd
 Sample : ic277-2
 Misc : op73158,e6p277
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 28 10:29:53 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Mon Apr 28 10:28:35 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.529	152	912502	40.00	ppb	0.00
24) Naphthalene-d8	6.695	136	3600769	40.00	ppb	0.00
47) Acenaphthene-d10	8.802	164	2068296	40.00	ppb	0.00
69) Phenanthrene-d10	10.995	188	3482357	40.00	ppb	0.00
83) Chrysene-d12	15.210	240	3544559	40.00	ppb	0.00
92) Perylene-d12	17.339	264	3179054	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	5.529	152	912502	40.00	ppb	0.00
104) Phenanthrene-d10a	10.995	188	3482357	40.00	ppb	0.00
107) Chrysene-d12a	15.210	240	3544559	40.00	ppb	0.00
110) Acenaphthene-d10a	8.802	164	2068296	40.00	ppb	0.00
112) Naphthalene-d8a	6.695	136	3600769	40.00	ppb	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	4.347	112	58952	1.90	ppb	0.00
Spiked Amount	50.000		Recovery	=	3.80%	
8) Phenol-d5	5.256	99	87355	1.96	ppb	0.00
Spiked Amount	50.000		Recovery	=	3.92%	
25) Nitrobenzene-d5	6.015	82	88672	1.96	ppb	0.00
Spiked Amount	50.000		Recovery	=	3.92%	
51) 2-Fluorobiphenyl	7.920	172	116882	1.98	ppb	0.00
Spiked Amount	50.000		Recovery	=	3.96%	
73) 2,4,6-Tribromophenol	9.941	330	14764	1.64	ppb	0.00
Spiked Amount	50.000		Recovery	=	3.28%	
86) Terphenyl-d14	13.568	244	127060	1.91	ppb	0.00
Spiked Amount	50.000		Recovery	=	3.82%	
106) o-terphenyl	0.000	230	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
109) 1-chlorooctadecane	0.000	57	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	

Target Compounds					Qvalue	
2) 1,4-Dioxane	2.111	88	26333	1.67	ppb	96
3) Pyridine	2.539	79	66636	1.62	ppb	94
4) N-Nitrosodimethylamine	2.480	74	44084	1.89	ppb	99
6) Indene	5.753	116	108832	1.87	ppb	99
7) Cumene	4.823	105	178601	1.92	ppb	99
9) Phenol	5.267	94	99406	1.93	ppb	91
10) Aniline	5.256	93	117352	2.03	ppb	96
11) bis(2-Chloroethyl)ether	5.315	93	72295	1.95	ppb	95
12) 2-Chlorophenol	5.358	128	54732	1.85	ppb	93
13) Decane	5.411	43	42730	1.90	ppb	92
14) 1,3-Dichlorobenzene	5.481	146	65060	2.05	ppb	96
15) 1,4-Dichlorobenzene	5.545	146	62739	1.94	ppb	96
16) Benzyl alcohol	5.662	108	40309	1.84	ppb	94
17) 1,2-Dichlorobenzene	5.673	146	58433	1.93	ppb	95
18) Acetophenone	5.882	105	100507	1.84	ppb	83
19) 2-Methylphenol	5.775	108	55162	1.82	ppb	97
20) 2,2'-oxybis(1-Chloropr...	5.775	121	19926	1.86	ppb	96
21) 3&4-Methylphenol	5.909	108	57005	1.77	ppb	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p277\
 Data File : 6p6549.D
 Acq On : 27 Apr 2014 4:11 pm
 Operator : ashleyd
 Sample : ic277-2
 Misc : op73158,e6p277
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 28 10:29:53 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Mon Apr 28 10:28:35 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
22) n-Nitroso-di-n-propyla...	5.887	70	60238	2.02	ppb	95
23) Hexachloroethane	5.973	201	23434	2.20	ppb	86
26) Nitrobenzene	6.032	77	89957	1.90	ppb	99
27) Quinoline	7.064	129	110261	1.85	ppb	93
28) Isophorone	6.251	82	152634	1.96	ppb	99
29) 2-Nitrophenol	6.326	139	26979	1.79	ppb	86
30) 2,4-Dimethylphenol	6.379	107	44225	1.20	ppb	92
32) bis(2-Chloroethoxy)met...	6.459	93	86562	2.02	ppb	100
33) 2,4-Dichlorophenol	6.572	162	37104	1.71	ppb	82
34) 2,6-Dichlorophenol	6.791	162	40146	1.82	ppb	97
35) 1,3,5-Trichlorobenzene	6.336	180	52484	1.91	ppb	98
36) 1,2,4-Trichlorobenzene	6.641	180	48505	1.92	ppb	93
37) 1,2,3-Trichlorobenzene	6.871	180	49908	1.92	ppb	88
38) Naphthalene	6.716	128	173438	1.95	ppb	98
39) 4-Chloroaniline	6.775	127	71600	1.99	ppb	95
40) 2,3-Dichloroaniline	7.813	161	55218	1.86	ppb	96
41) Caprolactam	7.112	55	21157	1.64	ppb	91
42) Hexachlorobutadiene	6.855	225	27802	1.94	ppb	97
43) 4-Chloro-3-methylphenol	7.315	107	60463	1.89	ppb	87
44) 2-Methylnaphthalene	7.470	141	93358	1.91	ppb	98
45) 1-Methylnaphthalene	7.583	141	93005	1.85	ppb	99
46) Dimethylnaphthalene	8.241	156	100870	1.85	ppb	99
48) Hexachlorocyclopentadiene	7.668	237	33981	2.22	ppb	93
49) 2,4,6-Trichlorophenol	7.823	196	27782	1.80	ppb	99
50) 2,4,5-Trichlorophenol	7.877	196	30497	1.86	ppb	91
52) 2-Chloronaphthalene	8.059	162	104838	2.02	ppb	99
53) Biphenyl	8.043	154	136307	1.91	ppb	98
54) 2-Nitroaniline	8.203	65	41911	1.85	ppb	91
55) Dimethylphthalate	8.449	163	113611	1.94	ppb	99
56) Acenaphthylene	8.604	152	167014	1.96	ppb	98
57) 2,6-Dinitrotoluene	8.524	165	24926	1.88	ppb	97
58) 3-Nitroaniline	8.754	138	28005	1.86	ppb	82
59) Acenaphthene	8.845	153	106256	1.97	ppb	97
61) 4-Nitrophenol	9.070	109	14920	1.16	ppb	# 69
62) Dibenzofuran	9.086	168	145148	1.95	ppb	97
63) 2,4-Dinitrotoluene	9.091	165	33906	1.83	ppb	95
64) 2,3,4,6-Tetrachlorophenol	9.289	232	20856	1.48	ppb	91
65) Diethylphthalate	9.460	149	117601	1.88	ppb	96
66) Fluorene	9.583	166	116596	1.92	ppb	99
67) 4-Chlorophenyl-phenyle...	9.599	204	54690	2.04	ppb	96
68) 4-Nitroaniline	9.631	138	27148	1.76	ppb	96
70) 4,6-Dinitro-2-methylph...	9.690	198	9149	0.82	ppb	73
71) n-Nitrosodiphenylamine	9.781	169	78662	1.92	ppb	95
72) 1,2-Diphenylhydrazine	9.834	77	186254	1.92	ppb	98
74) 4-Bromophenyl-phenylether	10.332	248	29951	1.91	ppb	93
75) Hexachlorobenzene	10.417	284	39350	2.06	ppb	97
76) Pentachlorophenol	10.738	266	19739	1.85	ppb	97
77) Phenanthrene	11.027	178	182072	1.93	ppb	98
78) Anthracene	11.102	178	175212	1.92	ppb	97
79) Carbazole	11.380	167	162864	1.88	ppb	100

9.6.44

9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p277\
 Data File : 6p6549.D
 Acq On : 27 Apr 2014 4:11 pm
 Operator : ashleyd
 Sample : ic277-2
 Misc : op73158,e6p277
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 28 10:29:53 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Mon Apr 28 10:28:35 2014
 Response via : Initial Calibration

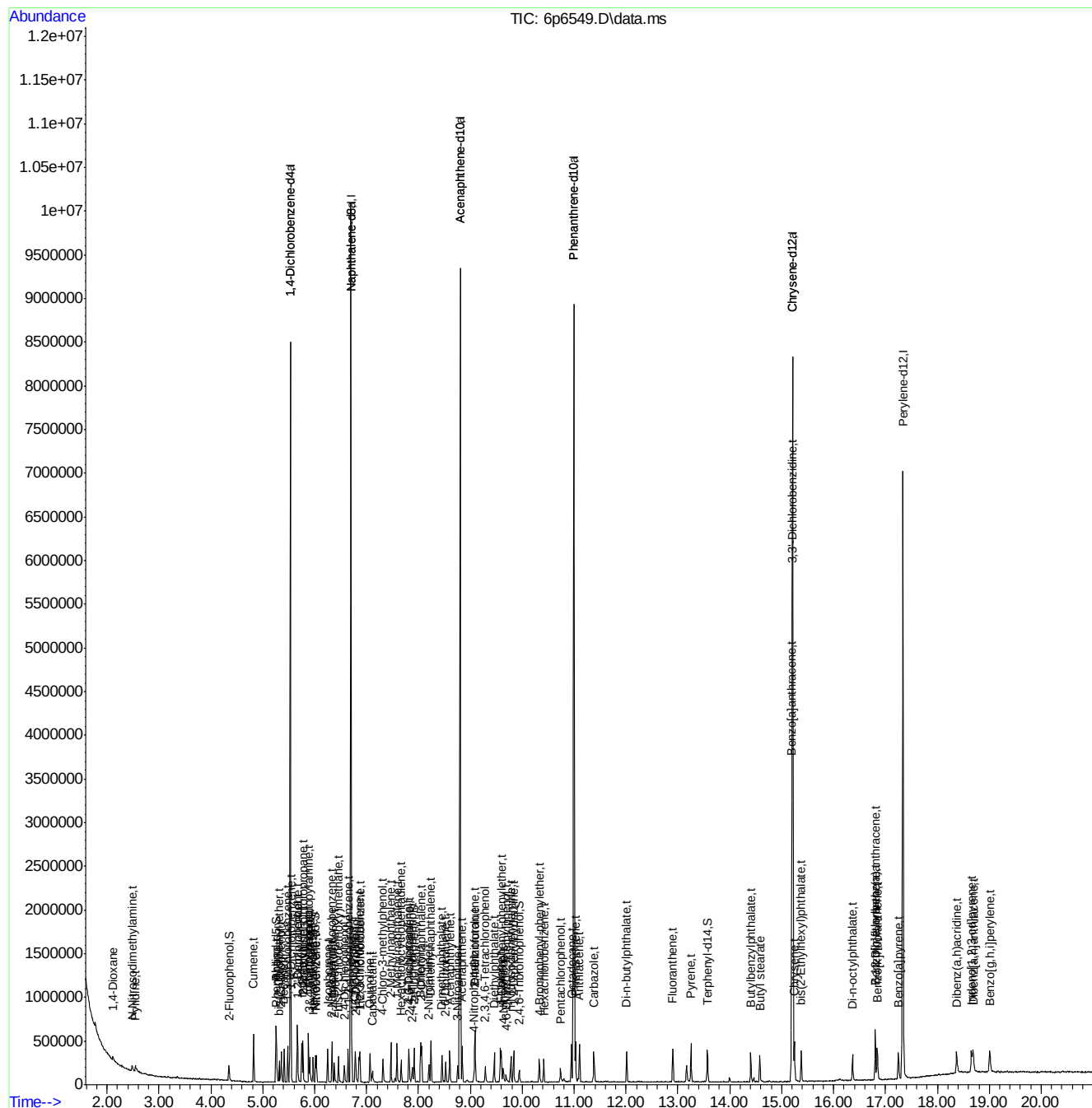
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) Di-n-butylphthalate	12.011	149	194600	1.87	ppb	99
81) Fluoranthene	12.899	202	181876	1.90	ppb	98
82) Octadecane	10.947	57	78367	1.88	ppb	95
84) Pyrene	13.252	202	195185	1.94	ppb	99
85) Butyl stearate	14.579	56	41727	1.66	ppb	96
87) Butylbenzylphthalate	14.402	149	81514	1.76	ppb	90
88) Benzo[a]anthracene	15.194	228	177814	1.83	ppb	97
89) 3,3'-Dichlorobenzidine	15.199	252	51620	1.68	ppb	93
90) Chrysene	15.242	228	161115	1.91	ppb	96
91) bis(2-Ethylhexyl)phtha...	15.376	149	109406	1.71	ppb	99
93) Di-n-octylphthalate	16.365	149	188063	1.66	ppb	99
94) Benzo[b]fluoranthene	16.804	252	172131	1.92	ppb	95
95) Benzo[k]fluoranthene	16.841	252	161573	1.96	ppb	92
96) Benzo[a]pyrene	17.248	252	145663	1.91	ppb	97
97) Indeno[1,2,3-cd]pyrene	18.654	276	147905m	1.85	ppb	
98) Dibenz(a,h)acridine	18.371	279	132828	1.91	ppb	100
99) Dibenz[a,h]anthracene	18.686	278	147530	1.91	ppb	97
100) 7,12-Dimethylbenz(a)an...	16.804	256	43321	3.68	ppb	96
101) Benzo[g,h,i]perylene	19.007	276	153877	1.98	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

9.6.44
9

Data Path : C:\msdchem\1\DATA\6p277\
Data File : 6p6549.D
Acq On : 27 Apr 2014 4:11 pm
Operator : ashleyd
Sample : ic277-2
Misc : op73158,6p277
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 28 10:29:53 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Mon Apr 28 10:28:35 2014
Response via : Initial Calibration



9.6.44

Manual Integration Approval Summary

Sample Number: E6P277-IC277

Method: SW846 8270D

Lab FileID: 6P6549.D

Analyst approved: 04/28/14 13:35 Emily Pisarski

Injection Time: 04/27/14 16:11

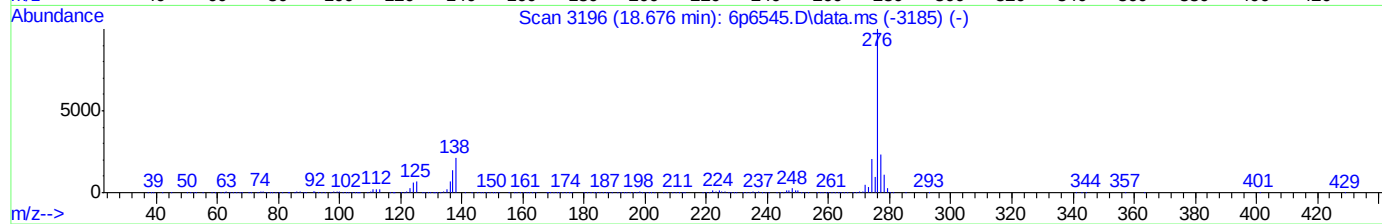
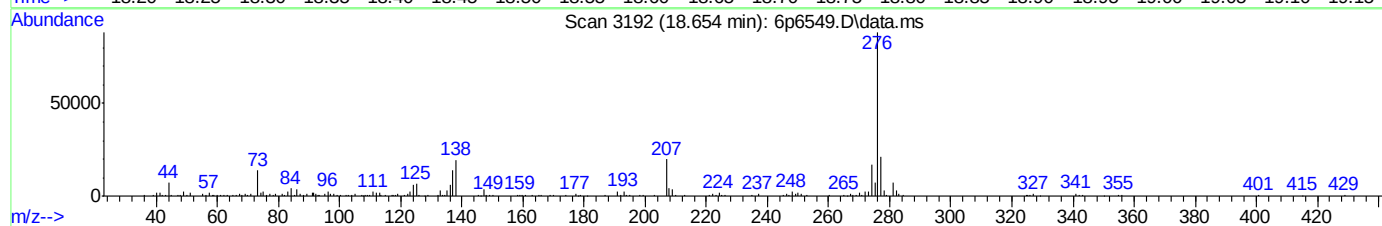
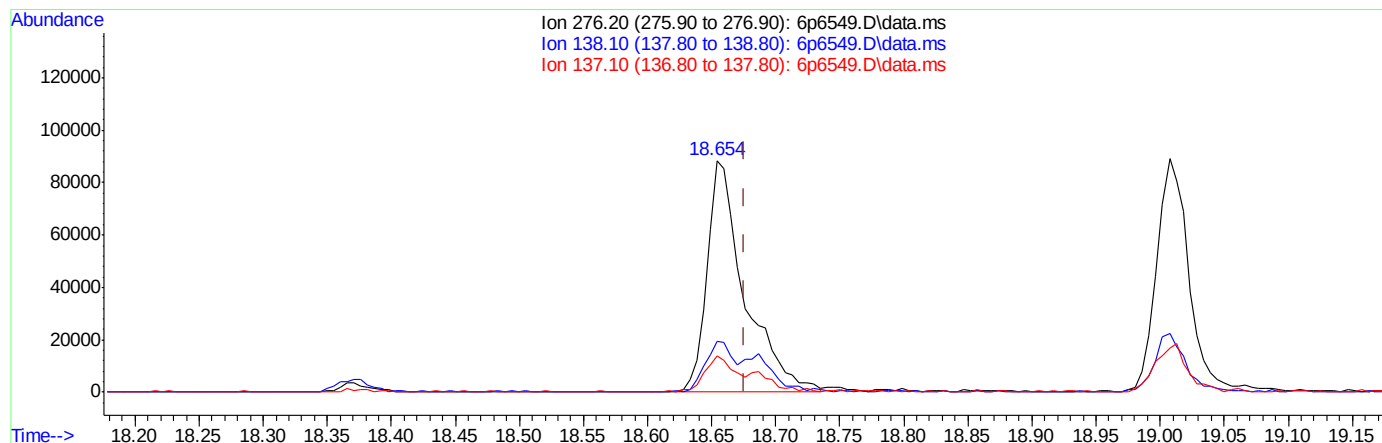
Supervisor approved: 04/28/14 15:39 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
Indeno(1,2,3-cd)pyrene	193-39-5		18.65	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p277\
Data File : 6p6549.D
Acq On : 27 Apr 2014 4:11 pm
Operator : ashleyd
Sample : ic277-2
Misc : op73158,e6p277
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 28 09:44:12 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Mon Apr 28 09:44:04 2014
Response via : Initial Calibration



(97) Indeno[1,2,3-cd]pyrene (t)

18.654min (-0.021) 2.05ppb

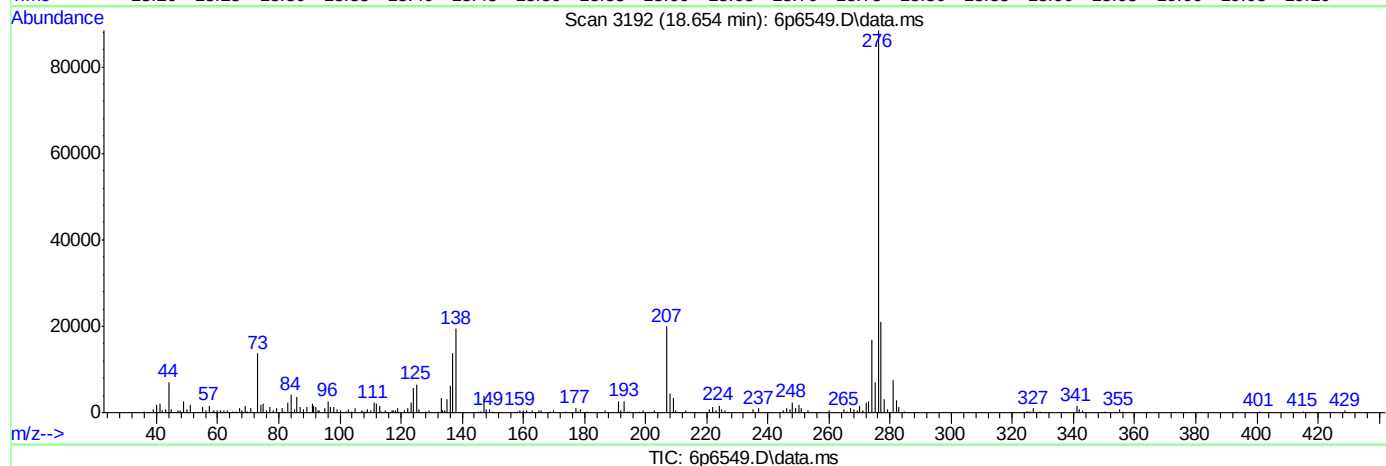
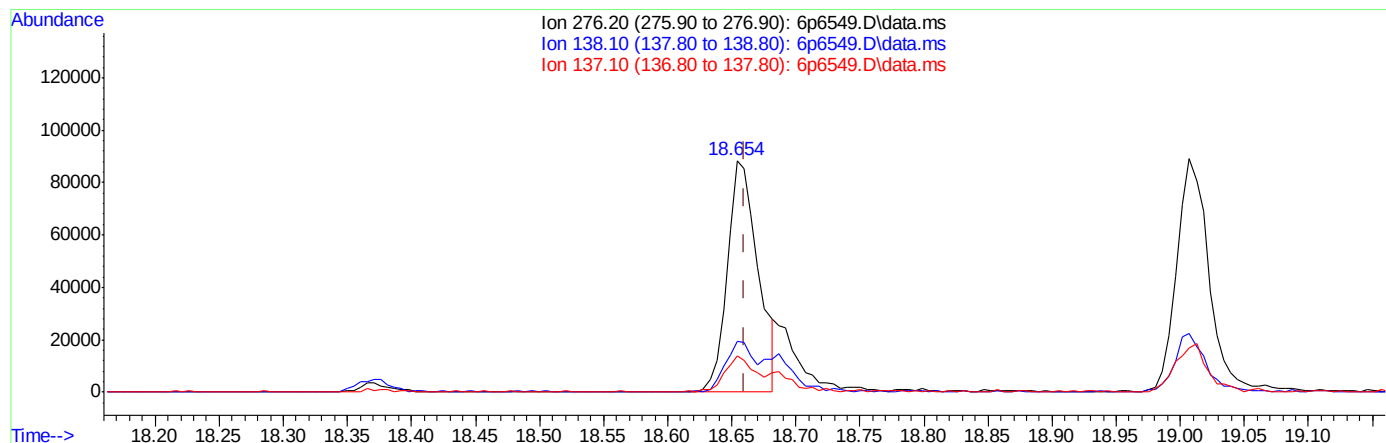
response 181176

Ion	Exp%	Act%
276.20	100	100
138.10	17.00	21.01
137.10	11.90	15.39
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p277\
Data File : 6p6549.D
Acq On : 27 Apr 2014 4:11 pm
Operator : ashleyd
Sample : ic277-2
Misc : op73158,e6p277
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 28 10:29:53 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Mon Apr 28 10:28:35 2014
Response via : Initial Calibration



(97) Indeno[1,2,3-cd]pyrene (t)

18.654min (-0.006) 1.85ppb m

response 147905

Ion	Exp%	Act%
276.20	100	100
138.10	17.00	21.96
137.10	11.90	15.48
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p278\
 Data File : 6p6553.D
 Acq On : 28 Apr 2014 9:57 am
 Operator : emilyp
 Sample : icv277-50
 Misc : op73158,e6p278
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 28 12:38:28 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Mon Apr 28 12:16:53 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.523	152	825866	40.00	ppb	0.00
24) Naphthalene-d8	6.689	136	3389165	40.00	ppb	0.00
47) Acenaphthene-d10	8.797	164	2060384	40.00	ppb	0.00
69) Phenanthrene-d10	10.990	188	3400984	40.00	ppb	0.00
83) Chrysene-d12	15.204	240	2931691	40.00	ppb	0.00
92) Perylene-d12	17.333	264	2535645	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	5.523	152	825866	40.00	ppb	0.00
104) Phenanthrene-d10a	10.990	188	3400984	40.00	ppb	0.00
107) Chrysene-d12a	15.204	240	2931691	40.00	ppb	0.00
110) Acenaphthene-d10a	8.797	164	2060384	40.00	ppb	0.00
112) Naphthalene-d8a	6.689	136	3389165	40.00	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
86) Terphenyl-d14	0.000	244	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
106) o-terphenyl	0.000	230	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
109) 1-chlorooctadecane	0.000	57	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	

Target Compounds

						Qvalue
9) Phenol	5.261	94	2347042	47.74	ppb	100
12) 2-Chlorophenol	5.352	128	1452222	51.54	ppb	100
19) 2-Methylphenol	5.764	108	1550577	53.81	ppb	98
21) 3&4-Methylphenol	5.898	108	1592998	51.45	ppb	98
29) 2-Nitrophenol	6.320	139	730922	49.73	ppb	91
30) 2,4-Dimethylphenol	6.374	107	1787009	51.51	ppb	99
31) Benzoic Acid	6.513	105	628199m	35.59	ppb	
33) 2,4-Dichlorophenol	6.561	162	1075434	50.88	ppb	99
34) 2,6-Dichlorophenol	6.780	162	1073066	49.93	ppb	99
43) 4-Chloro-3-methylphenol	7.305	107	1558878	48.48	ppb	97
49) 2,4,6-Trichlorophenol	7.813	196	763172	47.70	ppb	97
50) 2,4,5-Trichlorophenol	7.861	196	797625	47.37	ppb	99
61) 4-Nitrophenol	9.032	109	540404	42.22	ppb	# 82
64) 2,3,4,6-Tetrachlorophenol	9.278	232	619346	44.25	ppb	98
70) 4,6-Dinitro-2-methylph...	9.679	198	441218	40.62	ppb	97
76) Pentachlorophenol	10.728	266	416789	40.07	ppb	98

9.6.45
9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p278\
Data File : 6p6553.D
Acq On : 28 Apr 2014 9:57 am
Operator : emilyp
Sample : icv277-50
Misc : op73158,e6p278
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 28 12:38:28 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Mon Apr 28 12:16:53 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#)=qualifier out of range (m)=manual integration (+)=signals summed						

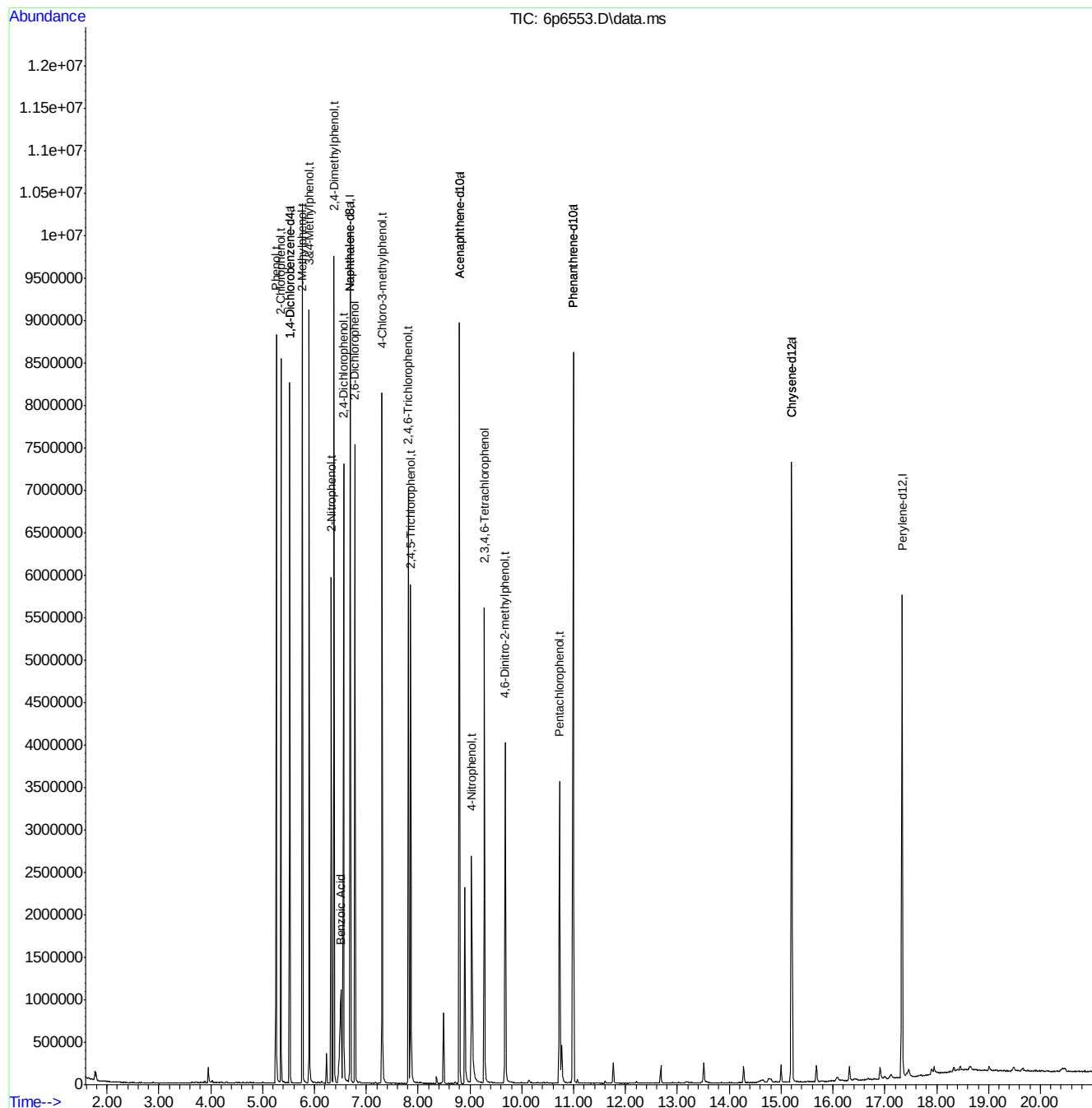
9.6.45

9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p278\
Data File : 6p6553.D
Acq On : 28 Apr 2014 9:57 am
Operator : emilyp
Sample : icv277-50
Misc : op73158,6p278
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 28 12:38:28 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Mon Apr 28 12:16:53 2014
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: E6P278-ICV277

Method: SW846 8270D

Lab FileID: 6P6553.D

Analyst approved: 04/28/14 13:35 Emily Pisarski

Injection Time: 04/28/14 09:57

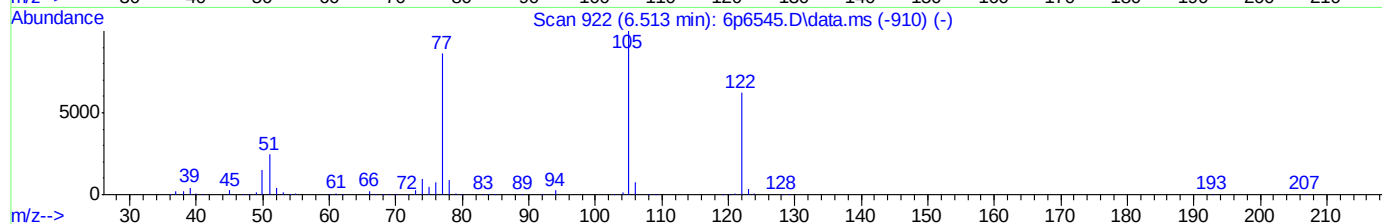
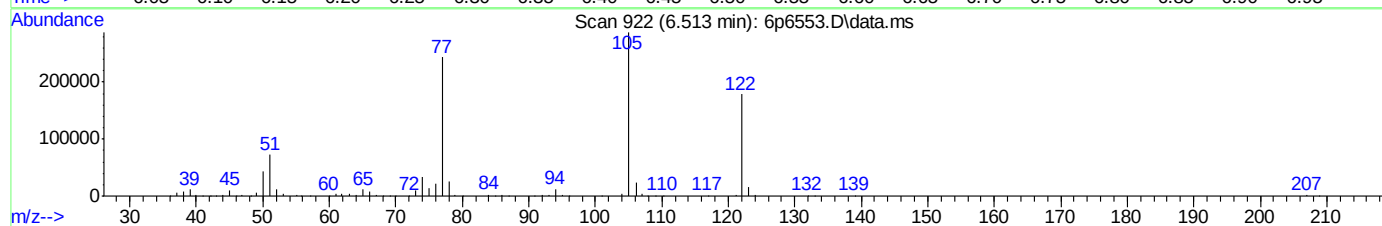
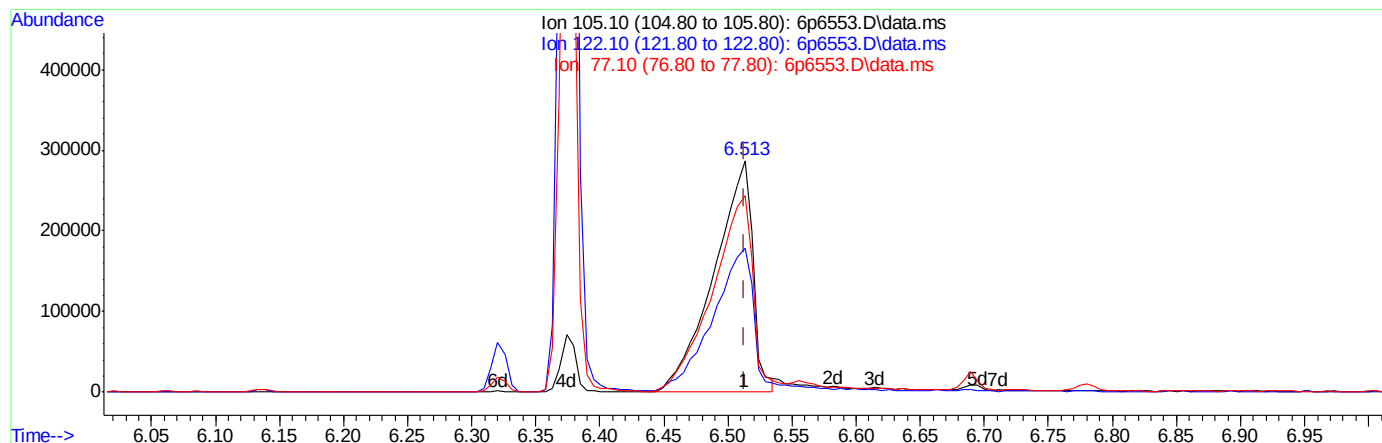
Supervisor approved: 04/28/14 15:44 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic acid	65-85-0		6.51	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\6p278\
Data File : 6p6553.D
Acq On : 28 Apr 2014 9:57 am
Operator : emilyp
Sample : icv277-50
Misc : op73158,e6p278
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 28 12:16:57 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Mon Apr 28 12:16:53 2014
Response via : Initial Calibration



TIC: 6p6553.D\data.ms

(31) Benzoic Acid

6.513min (0.000) 33.99ppb

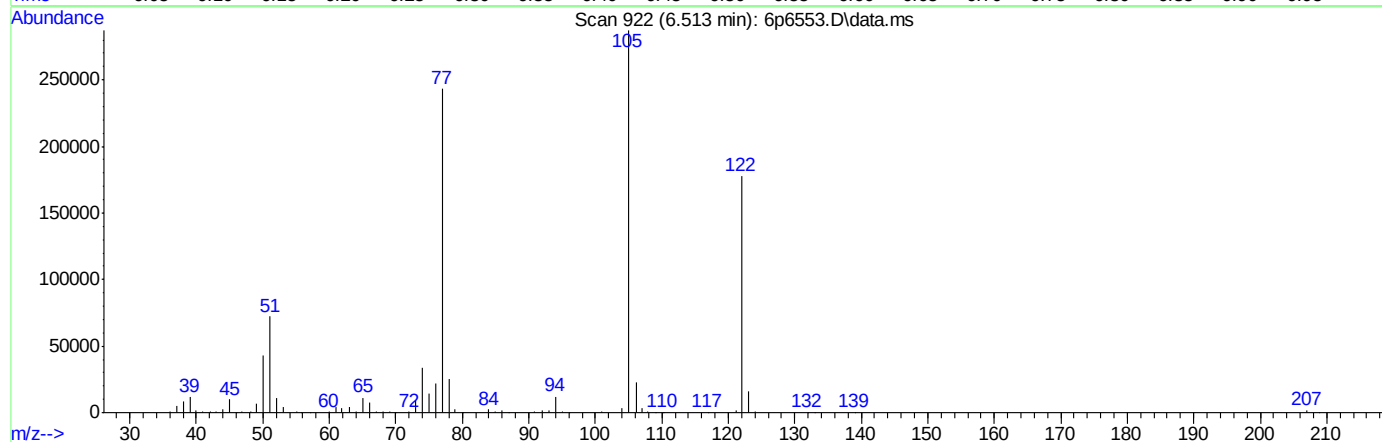
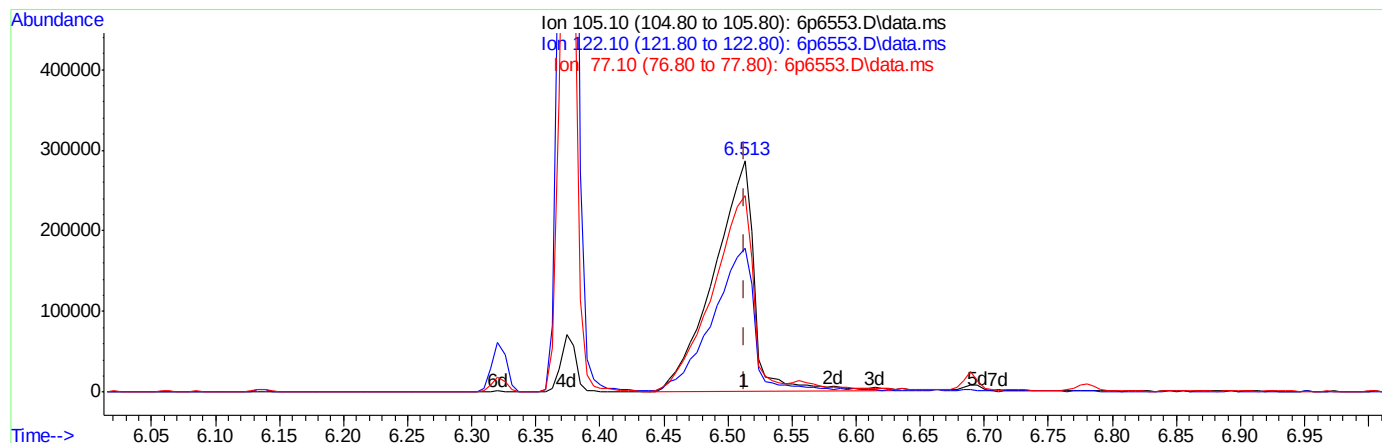
response 599903

Ion	Exp%	Act%
105.10	100	100
122.10	25.10	62.84#
77.10	34.70	86.58#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\6p278\
Data File : 6p6553.D
Acq On : 28 Apr 2014 9:57 am
Operator : emilyp
Sample : icv277-50
Misc : op73158,e6p278
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 28 12:19:04 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Mon Apr 28 12:16:53 2014
Response via : Initial Calibration



(31) Benzoic Acid

6.513min (0.000) 35.59ppb m

response 628199

Ion	Exp%	Act%
105.10	100	100
122.10	25.10	60.01#
77.10	34.70	82.68#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p278\
 Data File : 6p6554a.D
 Acq On : 28 Apr 2014 10:26 am
 Operator : emilyp
 Sample : icv276-50
 Misc : op73158,e6p278
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 28 13:12:32 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Mon Apr 28 12:04:22 2014
 Response via : Initial Calibration

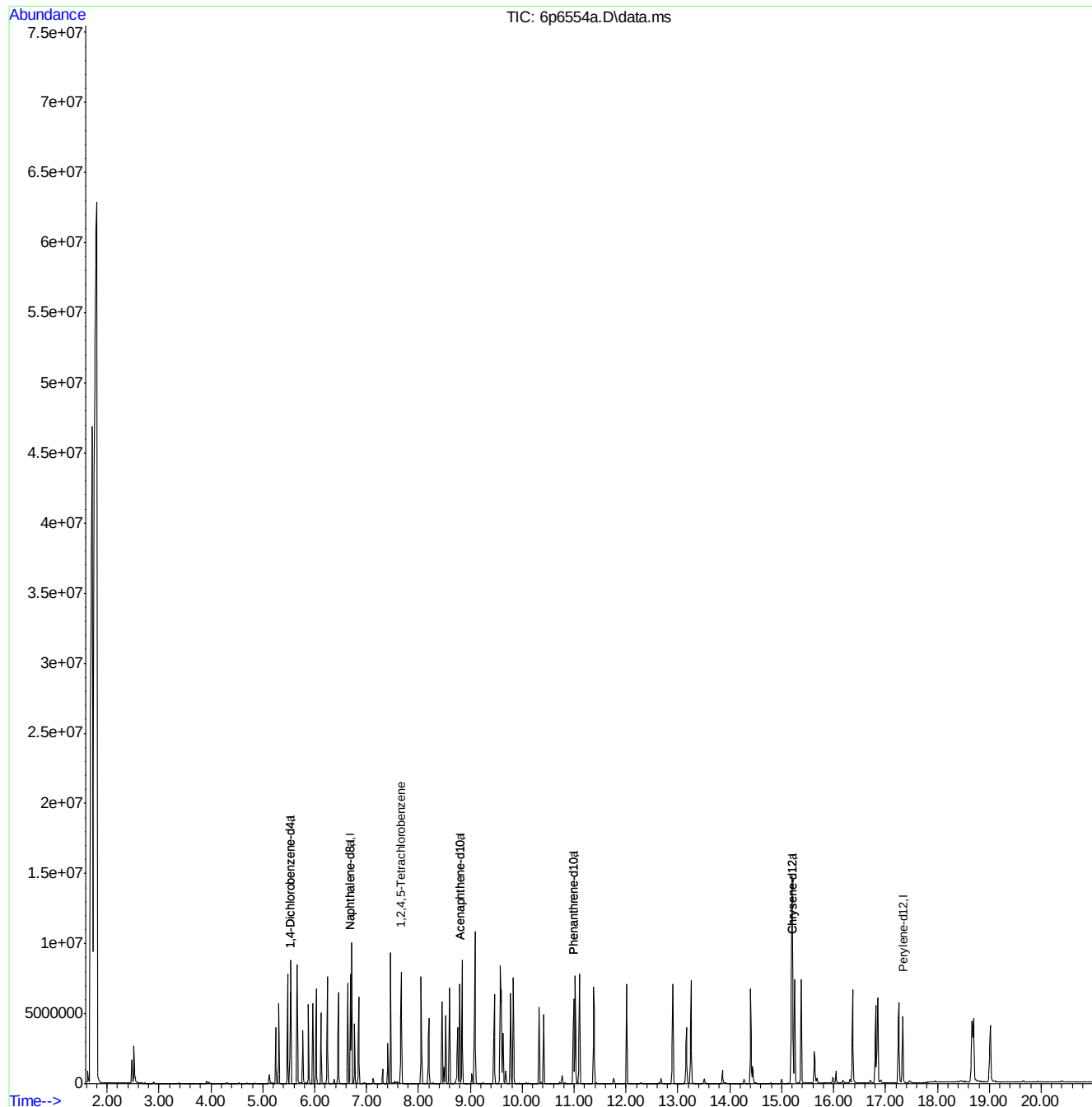
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.529	152	730187	40.00	ppb	0.00
24) Naphthalene-d8	6.689	136	2798273	40.00	ppb	0.00
47) Acenaphthene-d10	8.797	164	1605748	40.00	ppb	0.00
69) Phenanthrene-d10	10.990	188	2548796	40.00	ppb	0.00
83) Chrysene-d12	15.210	240	2310636	40.00	ppb	0.00
92) Perylene-d12	17.333	264	2006342	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	5.529	152	730187	40.00	ppb	0.08
104) Phenanthrene-d10a	10.990	188	2548796	40.00	ppb	0.14
107) Chrysene-d12a	15.210	240	2310636	40.00	ppb	0.16
110) Acenaphthene-d10a	8.797	164	1605748	40.00	ppb	0.12
112) Naphthalene-d8a	6.689	136	2798273	40.00	ppb	0.10
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0d	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0d	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
86) Terphenyl-d14	0.000	244	0d	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
106) o-terphenyl	0.000	230	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
109) 1-chlorooctadecane	0.000	57	0d	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
Target Compounds						
111) 1,2,4,5-Tetrachloroben...	7.668	216	934472	43.47	ppb	Qvalue 98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p278\
Data File : 6p6554a.D
Acq On : 28 Apr 2014 10:26 am
Operator : emilyp
Sample : icv276-50
Misc : op73158,e6p278
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 28 13:12:32 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Mon Apr 28 12:04:22 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p278\
 Data File : 6p6554.D
 Acq On : 28 Apr 2014 10:26 am
 Operator : emilyp
 Sample : icv277-50
 Misc : op73158,e6p278
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 28 13:10:41 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Mon Apr 28 12:04:22 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.529	152	730187	40.00	ppb	0.00
24) Naphthalene-d8	6.689	136	2798273	40.00	ppb	0.00
47) Acenaphthene-d10	8.797	164	1605748	40.00	ppb	0.00
69) Phenanthrene-d10	10.990	188	2548796	40.00	ppb	0.00
83) Chrysene-d12	15.210	240	2310636	40.00	ppb	0.00
92) Perylene-d12	17.333	264	2006342	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	5.529	152	730187	40.00	ppb	0.08
104) Phenanthrene-d10a	10.990	188	2548796	40.00	ppb	0.14
107) Chrysene-d12a	15.210	240	2310636	40.00	ppb	0.16
110) Acenaphthene-d10a	8.797	164	1605748	40.00	ppb	0.12
112) Naphthalene-d8a	6.689	136	2798273	40.00	ppb	0.10

System Monitoring Compounds

5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0d	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0d	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
86) Terphenyl-d14	0.000	244	0d	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
106) o-terphenyl	0.000	230	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
109) 1-chlorooctadecane	0.000	57	0d	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	

Target Compounds

Qvalue

3) Pyridine	2.512	79	1501118	45.36	ppb	100
4) N-Nitrosodimethylamine	2.475	74	969852	49.95	ppb	100
11) bis(2-Chloroethyl)ether	5.309	93	1601698	52.53	ppb	99
14) 1,3-Dichlorobenzene	5.475	146	1306495	49.41	ppb	99
15) 1,4-Dichlorobenzene	5.539	146	1303489	49.04	ppb	99
16) Benzyl alcohol	5.657	108	924672	50.47	ppb	98
17) 1,2-Dichlorobenzene	5.673	146	1231020	49.56	ppb	99
20) 2,2'-oxybis(1-Chloropr...	5.769	121	448078	51.29	ppb	96
22) n-Nitroso-di-n-propyla...	5.882	70	1239773	50.37	ppb	99
23) Hexachloroethane	5.967	201	433056	48.44	ppb	97
26) Nitrobenzene	6.026	77	1901757	50.06	ppb	97
28) Isophorone	6.245	82	3092012	49.15	ppb	99
32) bis(2-Chloroethoxy)met...	6.454	93	1864157	53.74	ppb	99
36) 1,2,4-Trichlorobenzene	6.636	180	1002266	49.49	ppb	97
38) Naphthalene	6.711	128	3557343	50.16	ppb	100
42) Hexachlorobutadiene	6.844	225	587233	51.35	ppb	96
44) 2-Methylnaphthalene	7.465	141	1877169	47.08	ppb	99
48) Hexachlorocyclopentadiene	7.663	237	494603	41.53	ppb	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p278\
 Data File : 6p6554.D
 Acq On : 28 Apr 2014 10:26 am
 Operator : emilyp
 Sample : icv277-50
 Misc : op73158,e6p278
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 28 13:10:41 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Mon Apr 28 12:04:22 2014
 Response via : Initial Calibration

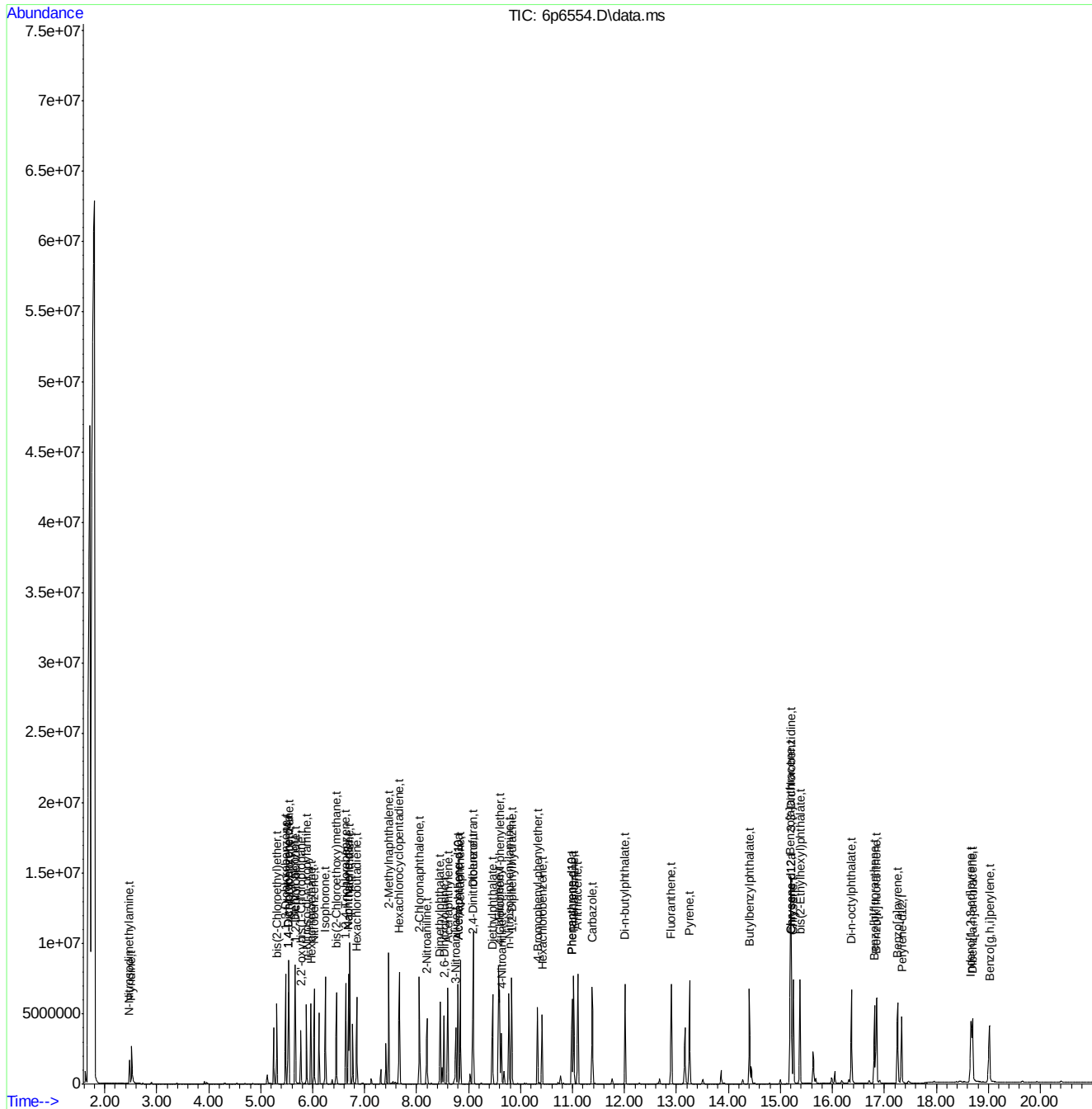
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
52) 2-Chloronaphthalene	8.053	162	2070020	49.03	ppb	97
54) 2-Nitroaniline	8.198	65	901786	48.47	ppb	97
55) Dimethylphthalate	8.454	163	2371289	50.19	ppb	98
56) Acenaphthylene	8.599	152	2903601	42.26	ppb	99
57) 2,6-Dinitrotoluene	8.529	165	527793	48.69	ppb	96
58) 3-Nitroaniline	8.754	138	521799	42.52	ppb	94
59) Acenaphthene	8.839	153	2184735	50.35	ppb	99
62) Dibenzofuran	9.086	168	2840129	47.81	ppb	99
63) 2,4-Dinitrotoluene	9.091	165	710183	47.55	ppb	86
65) Diethylphthalate	9.460	149	2481178	49.47	ppb	99
66) Fluorene	9.578	166	2459805	50.07	ppb	99
67) 4-Chlorophenyl-phenyle...	9.594	204	1069177	49.59	ppb	98
68) 4-Nitroaniline	9.631	138	554358	46.32	ppb	98
71) n-Nitrosodiphenylamine	9.776	169	1658462	52.69	ppb	99
72) 1,2-Diphenylhydrazine	9.829	77	3822081	52.40	ppb	98
74) 4-Bromophenyl-phenylether	10.326	248	609799	51.01	ppb	97
75) Hexachlorobenzene	10.412	284	700004	48.32	ppb	95
77) Phenanthrene	11.022	178	3309606	48.45	ppb	99
78) Anthracene	11.102	178	3379752	49.41	ppb	99
79) Carbazole	11.380	167	3095806	46.14	ppb	100
80) Di-n-butylphthalate	12.011	149	4064680	50.68	ppb	99
81) Fluoranthene	12.899	202	3491454	48.43	ppb	99
84) Pyrene	13.252	202	3587691	52.91	ppb	98
87) Butylbenzylphthalate	14.407	149	1765627	54.82	ppb	100
88) Benzo[a]anthracene	15.194	228	3103964	50.51	ppb	99
89) 3,3'-Dichlorobenzidine	15.199	252	1690417	80.95	ppb	99
90) Chrysene	15.247	228	3005754	53.14	ppb	99
91) bis(2-Ethylhexyl)phtha...	15.376	149	2407183	55.15	ppb	98
93) Di-n-octylphthalate	16.365	149	4060061	56.68	ppb	99
94) Benzo[b]fluoranthene	16.809	252	3072566	51.26	ppb	92
95) Benzo[k]fluoranthene	16.852	252	2933838	53.14	ppb	99
96) Benzo[a]pyrene	17.253	252	2750082	53.38	ppb	99
97) Indeno[1,2,3-cd]pyrene	18.665	276	2729644	51.40	ppb	95
99) Dibenz[a,h]anthracene	18.697	278	2694980	52.93	ppb	99
101) Benzo[g,h,i]perylene	19.023	276	2700561	53.16	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p278\
Data File : 6p6554.D
Acq On : 28 Apr 2014 10:26 am
Operator : emily
Sample : icv277-50
Misc : op73158,6p278
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 28 13:10:41 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Mon Apr 28 12:04:22 2014
Response via : Initial Calibration



9.6.47

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p278\
 Data File : 6p6555.D
 Acq On : 28 Apr 2014 10:54 am
 Operator : emilyp
 Sample : icv277-50
 Misc : op73158,e6p278
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 28 13:12:59 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Mon Apr 28 12:04:22 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

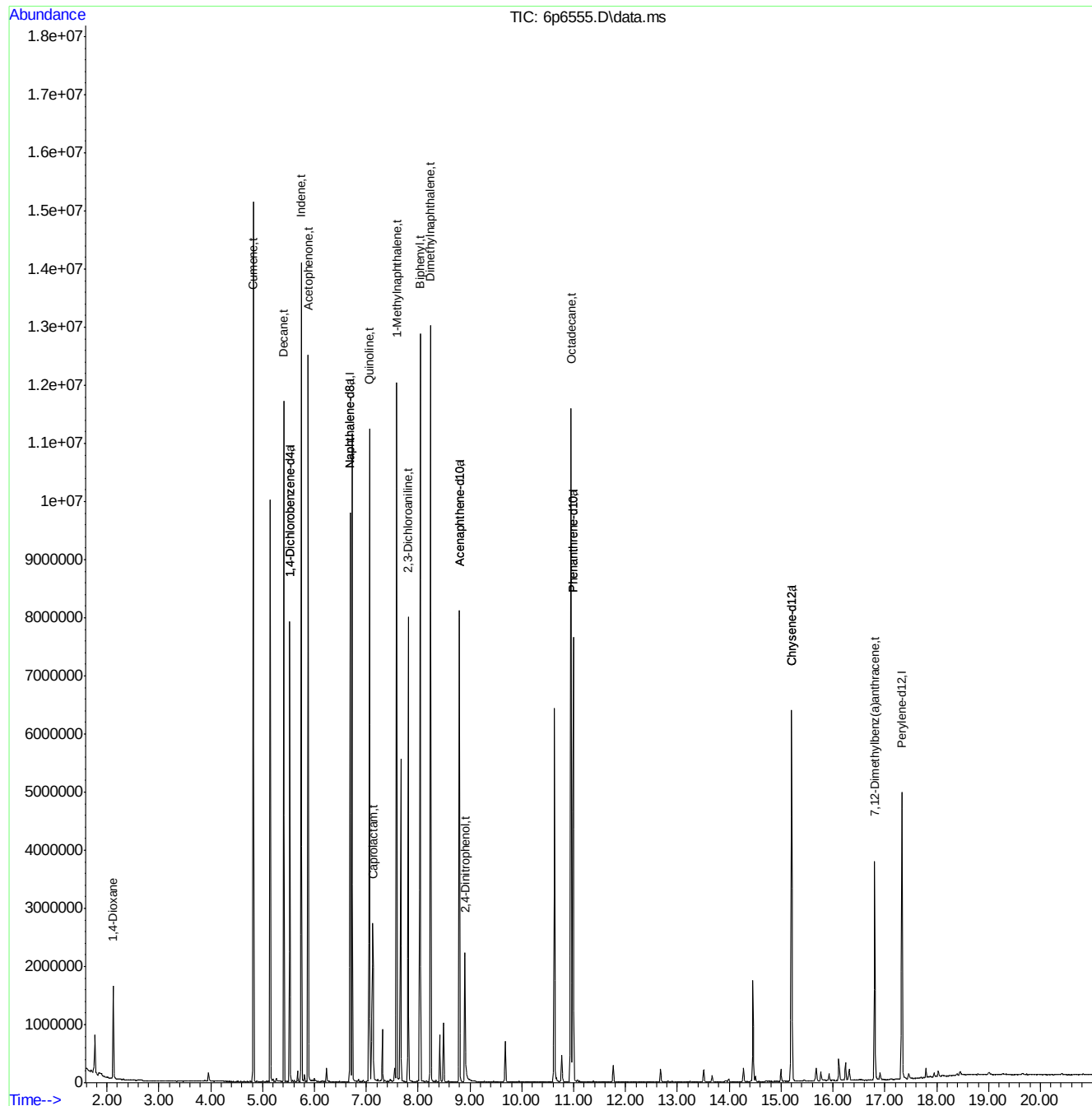
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.523	152	872445	40.00	ppb	0.00
24) Naphthalene-d8	6.689	136	3404466	40.00	ppb	0.00
47) Acenaphthene-d10	8.797	164	1928205	40.00	ppb	0.00
69) Phenanthrene-d10	10.990	188	3098278	40.00	ppb	0.00
83) Chrysene-d12	15.199	240	2795844	40.00	ppb	-0.01
92) Perylene-d12	17.328	264	2135188	40.00	ppb	-0.01
102) 1,4-Dichlorobenzene-d4a	5.523	152	872445	40.00	ppb	0.08
104) Phenanthrene-d10a	10.990	188	3098278	40.00	ppb	0.14
107) Chrysene-d12a	15.199	240	2795844	40.00	ppb	0.15
110) Acenaphthene-d10a	8.797	164	1928205	40.00	ppb	0.12
112) Naphthalene-d8a	6.689	136	3404466	40.00	ppb	0.10
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
86) Terphenyl-d14	0.000	244	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
106) o-terphenyl	0.000	230	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
109) 1-chlorooctadecane	0.000	57	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.116	88	750408	49.66	ppb	99
6) Indene	5.748	116	3212921	55.03	ppb	100
7) Cumene	4.823	105	4916037	53.07	ppb	100
13) Decane	5.411	43	1132577	51.54	ppb	98
18) Acetophenone	5.876	105	2902114	53.01	ppb	86
27) Quinoline	7.059	129	3185608	53.45	ppb	99
40) 2,3-Dichloroaniline	7.807	161	1433920	48.69	ppb	99
41) Caprolactam	7.128	55	593055	48.50	ppb	99
45) 1-Methylnaphthalene	7.583	141	2645984	53.15	ppb	100
46) Dimethylnaphthalene	8.241	156	2842107	52.86	ppb	99
53) Biphenyl	8.037	154	3835999	54.91	ppb	99
60) 2,4-Dinitrophenol	8.904	184	314028	41.68	ppb	93
82) Octadecane	10.947	57	2133760	54.94	ppb	99
100) 7,12-Dimethylbenz(a)an...	16.804	256	875813	23.30	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p278\
Data File : 6p6555.D
Acq On : 28 Apr 2014 10:54 am
Operator : emilyp
Sample : icv277-50
Misc : op73158,e6p278
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 28 13:12:59 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Mon Apr 28 12:04:22 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p278\
 Data File : 6p6555a.D
 Acq On : 28 Apr 2014 10:54 am
 Operator : emilyp
 Sample : icv276-50
 Misc : op73158,e6p278
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 28 13:13:26 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Mon Apr 28 12:04:22 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.523	152	872445	40.00	ppb	0.00
24) Naphthalene-d8	6.689	136	3404466	40.00	ppb	0.00
47) Acenaphthene-d10	8.797	164	1928205	40.00	ppb	0.00
69) Phenanthrene-d10	10.990	188	3098278	40.00	ppb	0.00
83) Chrysene-d12	15.199	240	2795844	40.00	ppb	-0.01
92) Perylene-d12	17.328	264	2135188	40.00	ppb	-0.01
102) 1,4-Dichlorobenzene-d4a	5.523	152	872445	40.00	ppb	0.08
104) Phenanthrene-d10a	10.990	188	3098278	40.00	ppb	0.14
107) Chrysene-d12a	15.199	240	2795844	40.00	ppb	0.15
110) Acenaphthene-d10a	8.797	164	1928205	40.00	ppb	0.12
112) Naphthalene-d8a	6.689	136	3404466	40.00	ppb	0.10
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
86) Terphenyl-d14	0.000	244	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
106) o-terphenyl	0.000	230	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
109) 1-chlorooctadecane	0.000	57	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						
103) Benzaldehyde	5.149	105	1712770	54.92	ppb	92
105) Atrazine	10.637	215	461480	51.94	ppb	85

(#) = qualifier out of range (m) = manual integration (+) = signals summed

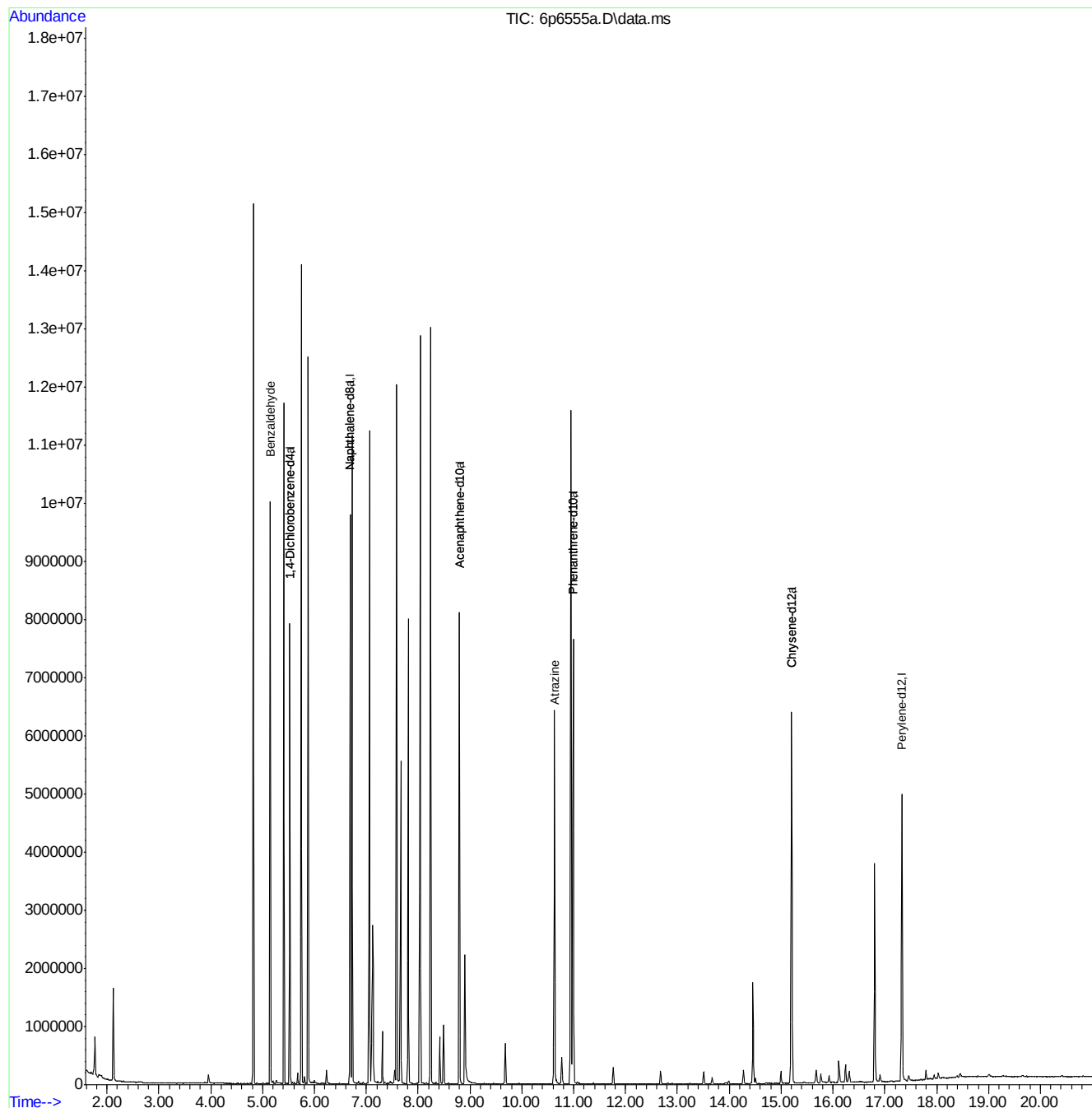
9.6.49

9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p278\
Data File : 6p6555a.D
Acq On : 28 Apr 2014 10:54 am
Operator : emilyp
Sample : icv276-50
Misc : op73158,e6p278
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 28 13:13:26 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Mon Apr 28 12:04:22 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p278\
 Data File : 6p6556.D
 Acq On : 28 Apr 2014 11:22 am
 Operator : emilyp
 Sample : icv277-50
 Misc : op73158,e6p278
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 28 12:26:18 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Mon Apr 28 12:04:22 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.523	152	658070	40.00	ppb	0.00
24) Naphthalene-d8	6.689	136	2572567	40.00	ppb	0.00
47) Acenaphthene-d10	8.791	164	1439594	40.00	ppb	-0.01
69) Phenanthrene-d10	10.984	188	2326255	40.00	ppb	-0.01
83) Chrysene-d12	15.199	240	2143473	40.00	ppb	-0.01
92) Perylene-d12	17.328	264	1918174	40.00	ppb	-0.01
102) 1,4-Dichlorobenzene-d4a	5.523	152	658070	40.00	ppb	0.08
104) Phenanthrene-d10a	10.984	188	2326255	40.00	ppb	0.13
107) Chrysene-d12a	15.199	240	2143473	40.00	ppb	0.15
110) Acenaphthene-d10a	8.791	164	1439594	40.00	ppb	0.12
112) Naphthalene-d8a	6.689	136	2572567	40.00	ppb	0.10
System Monitoring Compounds						
5) 2-Fluorophenol	4.341	112	1351385	56.99	ppb	0.00
Spiked Amount	50.000		Recovery	=	113.98%	
8) Phenol-d5	5.251	99	1854949	54.72	ppb	0.00
Spiked Amount	50.000		Recovery	=	109.44%	
25) Nitrobenzene-d5	6.010	82	1939194	57.09	ppb	0.00
Spiked Amount	50.000		Recovery	=	114.18%	
51) 2-Fluorobiphenyl	7.914	172	2445133	57.81	ppb	0.00
Spiked Amount	50.000		Recovery	=	115.62%	
73) 2,4,6-Tribromophenol	9.936	330	322254	53.53	ppb	-0.01
Spiked Amount	50.000		Recovery	=	107.06%	
86) Terphenyl-d14	13.568	244	2483712	59.67	ppb	0.00
Spiked Amount	50.000		Recovery	=	119.34%	
106) o-terphenyl	0.000	230	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
109) 1-chlorooctadecane	0.000	57	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	

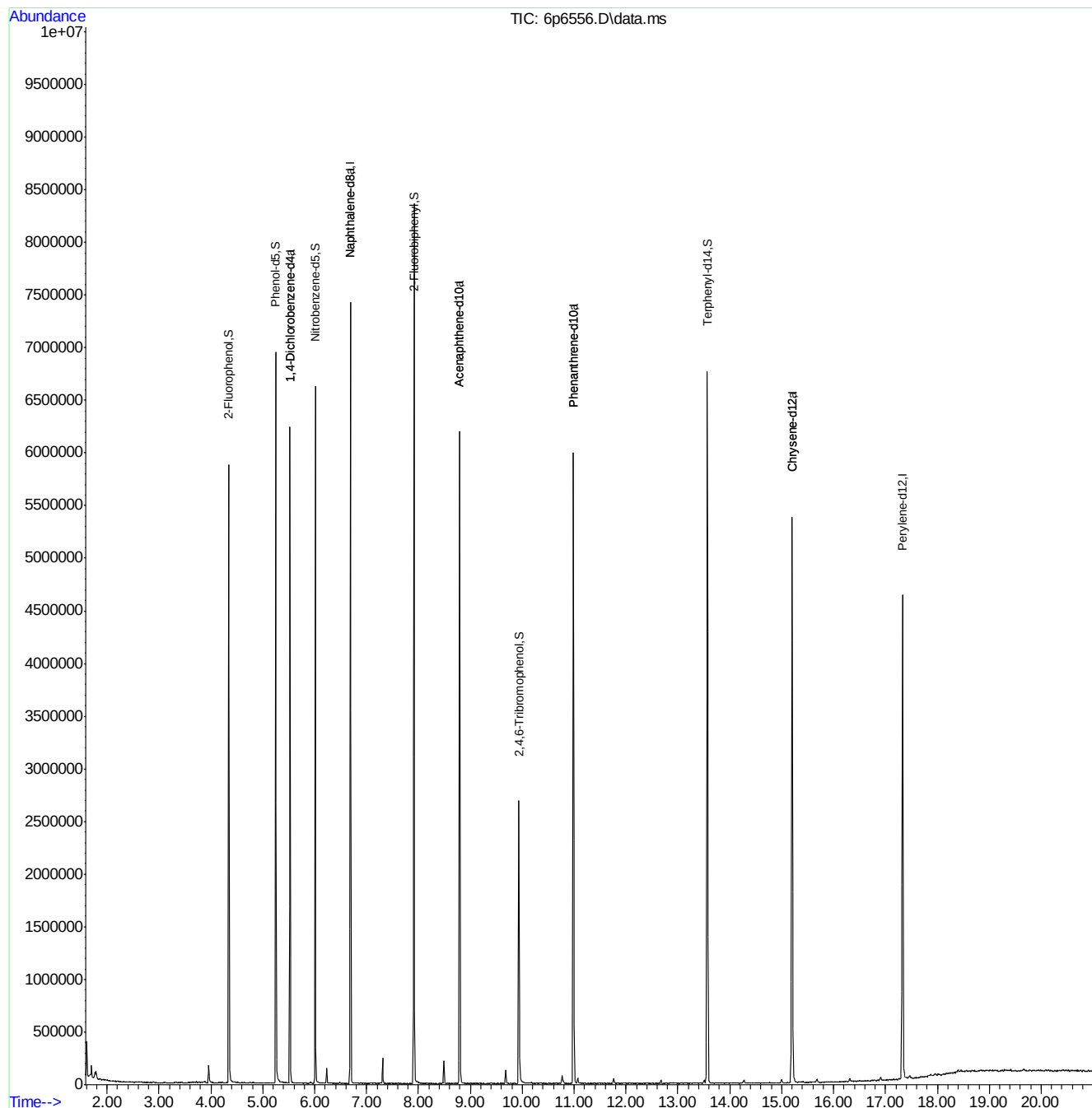
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p278\
Data File : 6p6556.D
Acq On : 28 Apr 2014 11:22 am
Operator : emilyp
Sample : icv277-50
Misc : op73158,e6p278
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 28 12:26:18 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Mon Apr 28 12:04:22 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p278\
 Data File : 6p6557.D
 Acq On : 28 Apr 2014 11:50 am
 Operator : emilyp
 Sample : icv277-50
 Misc : op73158,e6p278
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 28 13:22:02 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Mon Apr 28 13:21:06 2014
 Response via : Initial Calibration

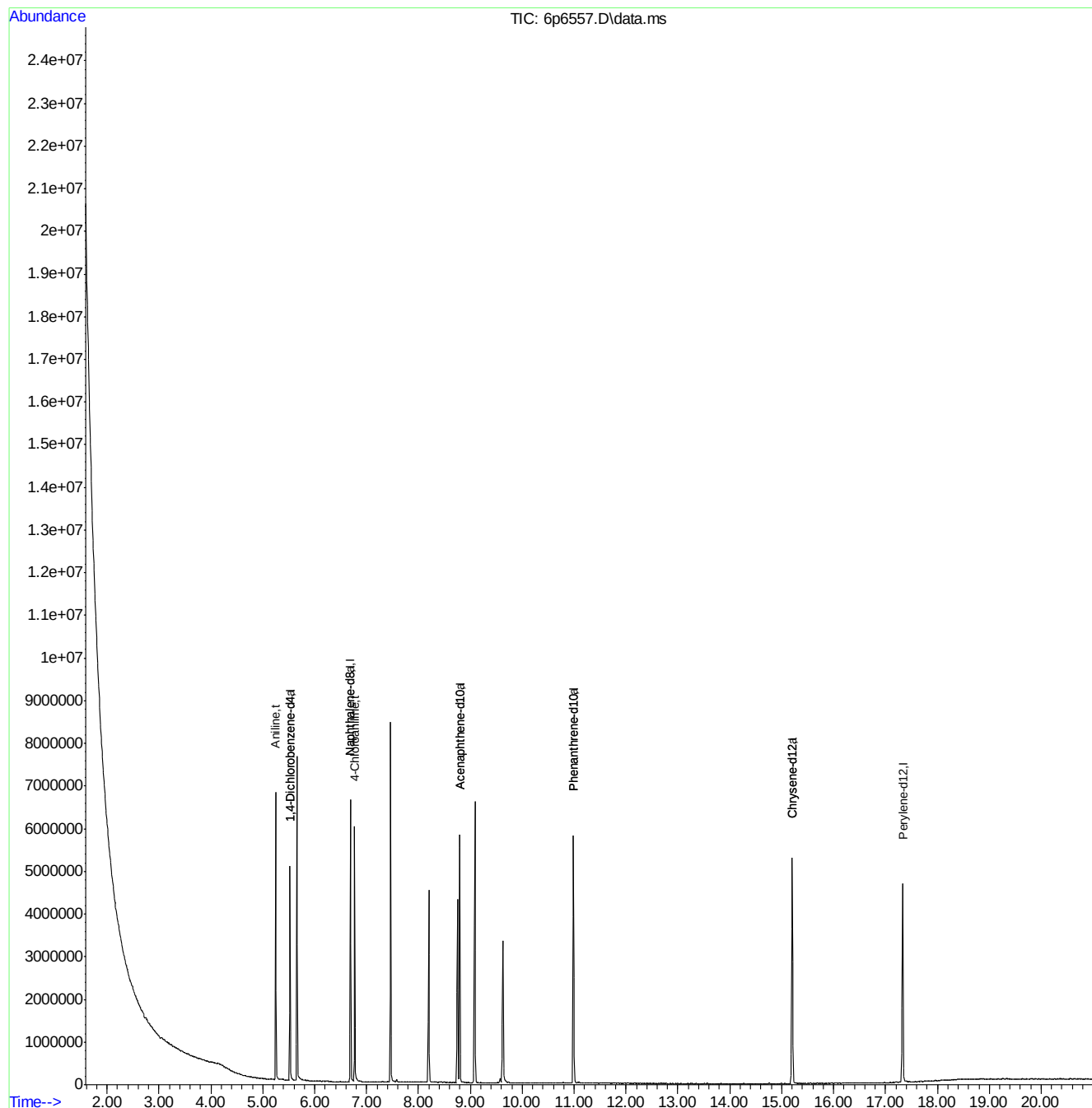
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.523	152	567799	40.00	ppb	0.00
24) Naphthalene-d8	6.689	136	2267557	40.00	ppb	0.00
47) Acenaphthene-d10	8.797	164	1341452	40.00	ppb	0.00
69) Phenanthrene-d10	10.984	188	2240755	40.00	ppb	0.00
83) Chrysene-d12	15.204	240	2227098	40.00	ppb	0.00
92) Perylene-d12	17.333	264	2140372	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	5.523	152	567799	40.00	ppb	0.00
104) Phenanthrene-d10a	10.984	188	2240755	40.00	ppb	0.00
107) Chrysene-d12a	15.204	240	2227098	40.00	ppb	0.00
110) Acenaphthene-d10a	8.797	164	1341452	40.00	ppb	0.00
112) Naphthalene-d8a	6.689	136	2267557	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
86) Terphenyl-d14	0.000	244	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
106) o-terphenyl	0.000	230	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
109) 1-chlorooctadecane	0.000	57	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
Target Compounds						
10) Aniline	5.251	93	2128050	57.06	ppb	97
39) 4-Chloroaniline	6.770	127	1355414	56.00	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p278\
Data File : 6p6557.D
Acq On : 28 Apr 2014 11:50 am
Operator : emilyp
Sample : icv277-50
Misc : op73158,e6p278
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 28 13:22:02 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Mon Apr 28 13:21:06 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p278\
 Data File : 6p6558.D
 Acq On : 28 Apr 2014 12:18 pm
 Operator : emilyp
 Sample : icv276-50
 Misc : op73158,e6p278
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 28 13:08:11 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Mon Apr 28 12:16:53 2014
 Response via : Initial Calibration

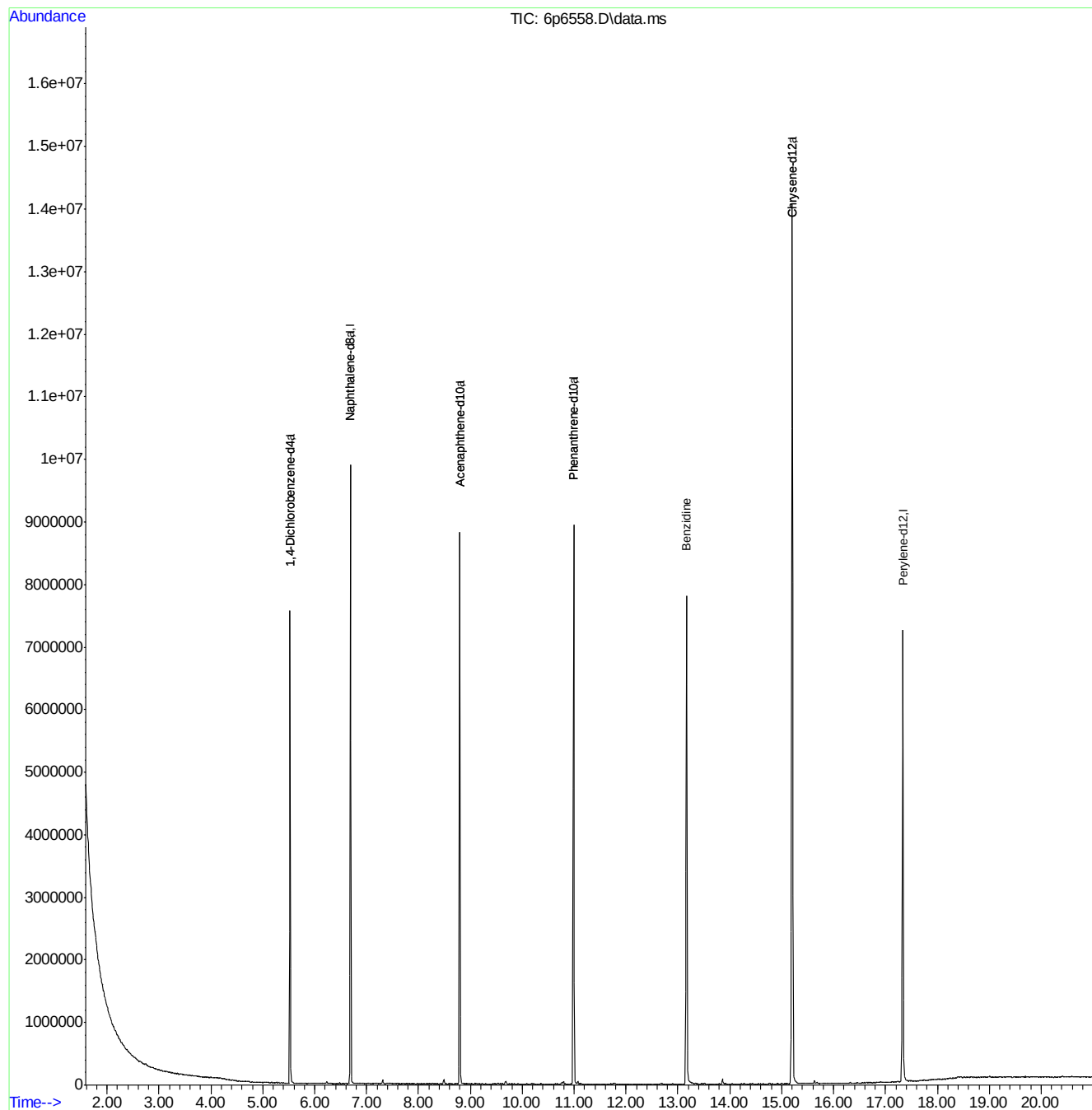
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.524	152	873090	40.00	ppb	0.00
24) Naphthalene-d8	6.690	136	3501231	40.00	ppb	0.00
47) Acenaphthene-d10	8.797	164	2086918	40.00	ppb	0.00
69) Phenanthrene-d10	10.990	188	3469686	40.00	ppb	0.00
83) Chrysene-d12	15.205	240	3556638	40.00	ppb	0.00
92) Perylene-d12	17.333	264	3420301	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	5.524	152	873090	40.00	ppb	0.08
104) Phenanthrene-d10a	10.990	188	3469686	40.00	ppb	0.14
107) Chrysene-d12a	15.205	240	3556638	40.00	ppb	0.16
110) Acenaphthene-d10a	8.797	164	2086918	40.00	ppb	0.12
112) Naphthalene-d8a	6.690	136	3501231	40.00	ppb	0.10
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
86) Terphenyl-d14	0.000	244	0d	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
106) o-terphenyl	0.000	230	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
109) 1-chlorooctadecane	0.000	57	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
Target Compounds						
108) Benzidine	13.167	184	3370179	61.97	ppb	Qvalue 99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p278\
Data File : 6p6558.D
Acq On : 28 Apr 2014 12:18 pm
Operator : emilyp
Sample : icv276-50
Misc : op73158,e6p278
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 28 13:08:11 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Mon Apr 28 12:16:53 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p278\
 Data File : 6p6559.D
 Acq On : 28 Apr 2014 12:47 pm
 Operator : emilyp
 Sample : icv276-50
 Misc : op73158,e6p278
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 28 13:08:51 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Mon Apr 28 12:04:23 2014
 Response via : Initial Calibration

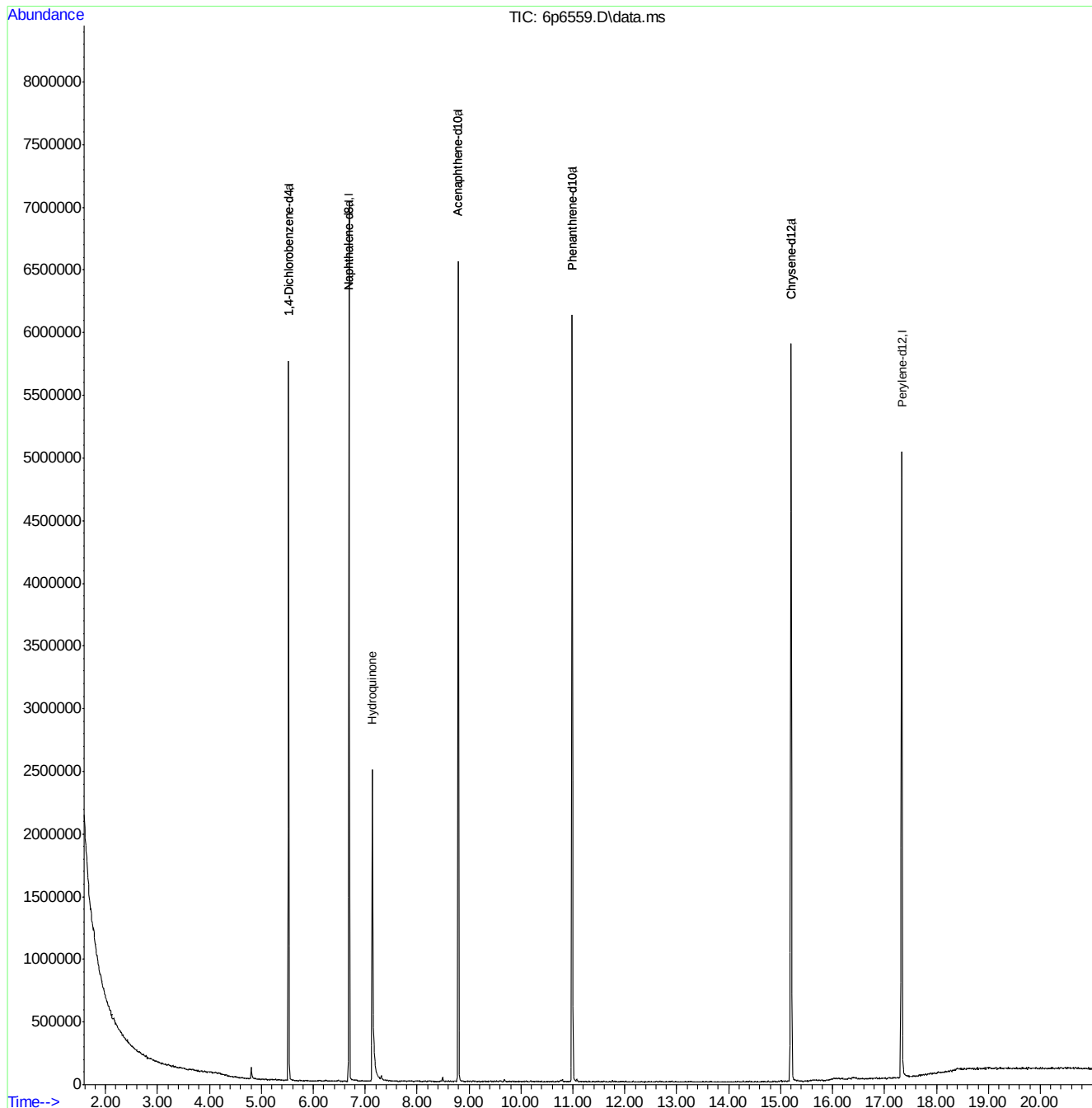
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.523	152	616904	40.00	ppb	0.00
24) Naphthalene-d8	6.689	136	2446262	40.00	ppb	0.00
47) Acenaphthene-d10	8.791	164	1446480	40.00	ppb	-0.01
69) Phenanthrene-d10	10.984	188	2384234	40.00	ppb	-0.01
83) Chrysene-d12	15.199	240	2444031	40.00	ppb	-0.01
92) Perylene-d12	17.333	264	2238231	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	5.523	152	616904	40.00	ppb	0.08
104) Phenanthrene-d10a	10.984	188	2384234	40.00	ppb	0.13
107) Chrysene-d12a	15.199	240	2444031	40.00	ppb	0.15
110) Acenaphthene-d10a	8.791	164	1446480	40.00	ppb	0.12
112) Naphthalene-d8a	6.689	136	2446262	40.00	ppb	0.10
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
86) Terphenyl-d14	0.000	244	0d	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
106) o-terphenyl	0.000	230	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
109) 1-chlorooctadecane	0.000	57	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
Target Compounds						
113) Hydroquinone	7.133	110	1322990	54.41	ppb	Qvalue 84

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p278\
Data File : 6p6559.D
Acq On : 28 Apr 2014 12:47 pm
Operator : emilyp
Sample : icv276-50
Misc : op73158,e6p278
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 28 13:08:51 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Mon Apr 28 12:04:23 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p319\
 Data File : 6p7512.D
 Acq On : 29 May 2014 10:07 pm
 Operator : andrews1
 Sample : cc277-50
 Misc : op74494,e6p319
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 30 09:28:54 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Sat May 24 10:45:50 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.090	152	946498	40.00	ppb	-0.06
24) Naphthalene-d8	6.176	136	3559753	40.00	ppb	-0.07
47) Acenaphthene-d10	8.149	164	2165503	40.00	ppb	-0.09
69) Phenanthrene-d10	10.278	188	3756007	40.00	ppb	-0.10
83) Chrysene-d12	14.455	240	4048829	40.00	ppb	-0.10
92) Perylene-d12	16.568	264	3455523	40.00	ppb	-0.11
102) 1,4-Dichlorobenzene-d4a	5.090	152	946498	40.00	ppb	-0.06
104) Phenanthrene-d10a	10.278	188	3756007	40.00	ppb	-0.10
106) Chrysene-d12a	14.455	240	4048829	40.00	ppb	-0.10
108) Acenaphthene-d10a	8.149	164	2165503	40.00	ppb	-0.09
System Monitoring Compounds						
5) 2-Fluorophenol	3.838	112	1646203	48.27	ppb	-0.08
Spiked Amount 50.000			Recovery	=	96.54%	
8) Phenol-d5	4.849	99	2272435	46.60	ppb	-0.05
Spiked Amount 50.000			Recovery	=	93.20%	
25) Nitrobenzene-d5	5.560	82	2216937	47.16	ppb	-0.05
Spiked Amount 50.000			Recovery	=	94.32%	
51) 2-Fluorobiphenyl	7.325	172	3456759	54.33	ppb	-0.08
Spiked Amount 50.000			Recovery	=	108.66%	
73) 2,4,6-Tribromophenol	9.262	330	589729	60.67	ppb	-0.09
Spiked Amount 50.000			Recovery	=	121.34%	
86) Terphenyl-d14	12.845	244	4064942	51.70	ppb	-0.10
Spiked Amount 50.000			Recovery	=	103.40%	
Target Compounds						
2) 1,4-Dioxane	1.570	88	688089	41.97	ppb	Qvalue 90
3) Pyridine	1.865	79	1828223	42.62	ppb	79
4) N-Nitrosodimethylamine	1.843	74	1062039m	42.20	ppb	
6) Indene	5.304	116	3154414	49.80	ppb	98
7) Cumene	4.341	105	5078908	50.53	ppb	99
9) Phenol	4.860	94	2545578	45.18	ppb	92
10) Aniline	4.812	93	2438534	39.22	ppb	92
11) bis(2-Chloroethyl)ether	4.886	93	1700411	43.03	ppb	96
12) 2-Chlorophenol	4.919	128	1749461	54.18	ppb	97
13) Decane	4.983	43	1363526	57.20	ppb	80
14) 1,3-Dichlorobenzene	5.036	146	1890352	55.15	ppb	97
15) 1,4-Dichlorobenzene	5.100	146	1920067	55.73	ppb	100
16) Benzyl alcohol	5.239	108	1173567	49.41	ppb	96
17) 1,2-Dichlorobenzene	5.229	146	1817776	56.46	ppb	100
18) Acetophenone	5.443	105	2883841	48.56	ppb	95
19) 2-Methylphenol	5.362	108	1630545	49.38	ppb	99
20) 2,2'-oxybis(1-Chloropr...	5.346	121	557404	49.22	ppb	# 84
21) 3&4-Methylphenol	5.491	108	1798819	50.69	ppb	99
22) n-Nitroso-di-n-propyla...	5.459	70	1430746	44.85	ppb	88
23) Hexachloroethane	5.502	201	678741	58.57	ppb	97
26) Nitrobenzene	5.576	77	2299064	47.57	ppb	96
27) Quinoline	6.529	129	3258689	52.29	ppb	99
28) Isophorone	5.785	82	3860992	48.24	ppb	92

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p319\
 Data File : 6p7512.D
 Acq On : 29 May 2014 10:07 pm
 Operator : andrews1
 Sample : cc277-50
 Misc : op74494,e6p319
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 30 09:28:54 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Sat May 24 10:45:50 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
29) 2-Nitrophenol	5.849	139	938608	60.80	ppb	# 74
30) 2,4-Dimethylphenol	5.924	107	1949295	53.50	ppb	97
31) Benzoic Acid	6.074	105	1307315m	70.52	ppb	
32) bis(2-Chloroethoxy)met...	5.983	93	1974989	44.76	ppb	97
33) 2,4-Dichlorophenol	6.079	162	1366007	61.53	ppb	96
34) 2,6-Dichlorophenol	6.277	162	1353142	59.95	ppb	98
35) 1,3,5-Trichlorobenzene	5.855	180	1644326	58.70	ppb	98
36) 1,2,4-Trichlorobenzene	6.133	180	1520845	59.03	ppb	97
37) 1,2,3-Trichlorobenzene	6.341	180	1514800	56.92	ppb	98
38) Naphthalene	6.197	128	5075809	56.26	ppb	99
39) 4-Chloroaniline	6.272	127	1961668	51.63	ppb	96
40) 2,3-Dichloroaniline	7.224	161	1697447	55.12	ppb	96
41) Caprolactam	6.652	55	615862	48.17	ppb	90
42) Hexachlorobutadiene	6.325	225	971587	66.79	ppb	95
43) 4-Chloro-3-methylphenol	6.801	107	1864946	55.21	ppb	97
44) 2-Methylnaphthalene	6.898	141	2918452	57.53	ppb	96
45) 1-Methylnaphthalene	7.005	141	2908971	55.89	ppb	98
46) Dimethylnaphthalene	7.625	156	3128626	55.66	ppb	99
48) Hexachlorocyclopentadiene	7.079	237	1964798	122.34	ppb	98
49) 2,4,6-Trichlorophenol	7.240	196	998462	59.38	ppb	98
50) 2,4,5-Trichlorophenol	7.299	196	1053112	59.51	ppb	98
52) 2-Chloronaphthalene	7.448	162	3161131	55.52	ppb	97
53) Biphenyl	7.438	154	4324546	55.12	ppb	99
54) 2-Nitroaniline	7.604	65	1257221	50.11	ppb	95
55) Dimethylphthalate	7.850	163	3523097	55.29	ppb	98
56) Acenaphthylene	7.962	152	5115042	55.21	ppb	99
57) 2,6-Dinitrotoluene	7.919	165	804963	55.07	ppb	98
58) 3-Nitroaniline	8.138	138	850650	51.40	ppb	94
59) Acenaphthene	8.192	153	3185535	54.44	ppb	99
60) 2,4-Dinitrophenol	8.294	184	819130	96.80	ppb	98
61) 4-Nitrophenol	8.459	109	783195	58.22	ppb	85
62) Dibenzofuran	8.427	168	4439764	55.42	ppb	99
63) 2,4-Dinitrotoluene	8.465	165	1172712	58.23	ppb	92
64) 2,3,4,6-Tetrachlorophenol	8.636	232	902994	61.39	ppb	95
65) Diethylphthalate	8.823	149	3712113	54.89	ppb	98
66) Fluorene	8.909	166	3670068	55.40	ppb	100
67) 4-Chlorophenyl-phenyle...	8.935	204	1642590	56.49	ppb	99
68) 4-Nitroaniline	8.994	138	781628	48.43	ppb	89
70) 4,6-Dinitro-2-methylph...	9.053	198	612499	51.06	ppb	94
71) n-Nitrosodiphenylamine	9.123	169	2394048	51.61	ppb	99
72) 1,2-Diphenylhydrazine	9.160	77	4671244	43.46	ppb	97
74) 4-Bromophenyl-phenylether	9.641	248	984562	55.89	ppb	96
75) Hexachlorobenzene	9.722	284	1188019	55.65	ppb	97
76) Pentachlorophenol	10.048	266	1479594	128.80	ppb	99
77) Phenanthrene	10.315	178	5201163	51.67	ppb	99
78) Anthracene	10.396	178	5341788	52.99	ppb	99
79) Carbazole	10.684	167	4889486	49.45	ppb	98
80) Di-n-butylphthalate	11.332	149	6304281	53.34	ppb	99
81) Fluoranthene	12.166	202	5641417	53.10	ppb	92
82) Octadecane	10.283	57	2237807	47.53	ppb	86

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p319\
 Data File : 6p7512.D
 Acq On : 29 May 2014 10:07 pm
 Operator : andrews1
 Sample : cc277-50
 Misc : op74494,e6p319
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 30 09:28:54 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Sat May 24 10:45:50 2014
 Response via : Initial Calibration

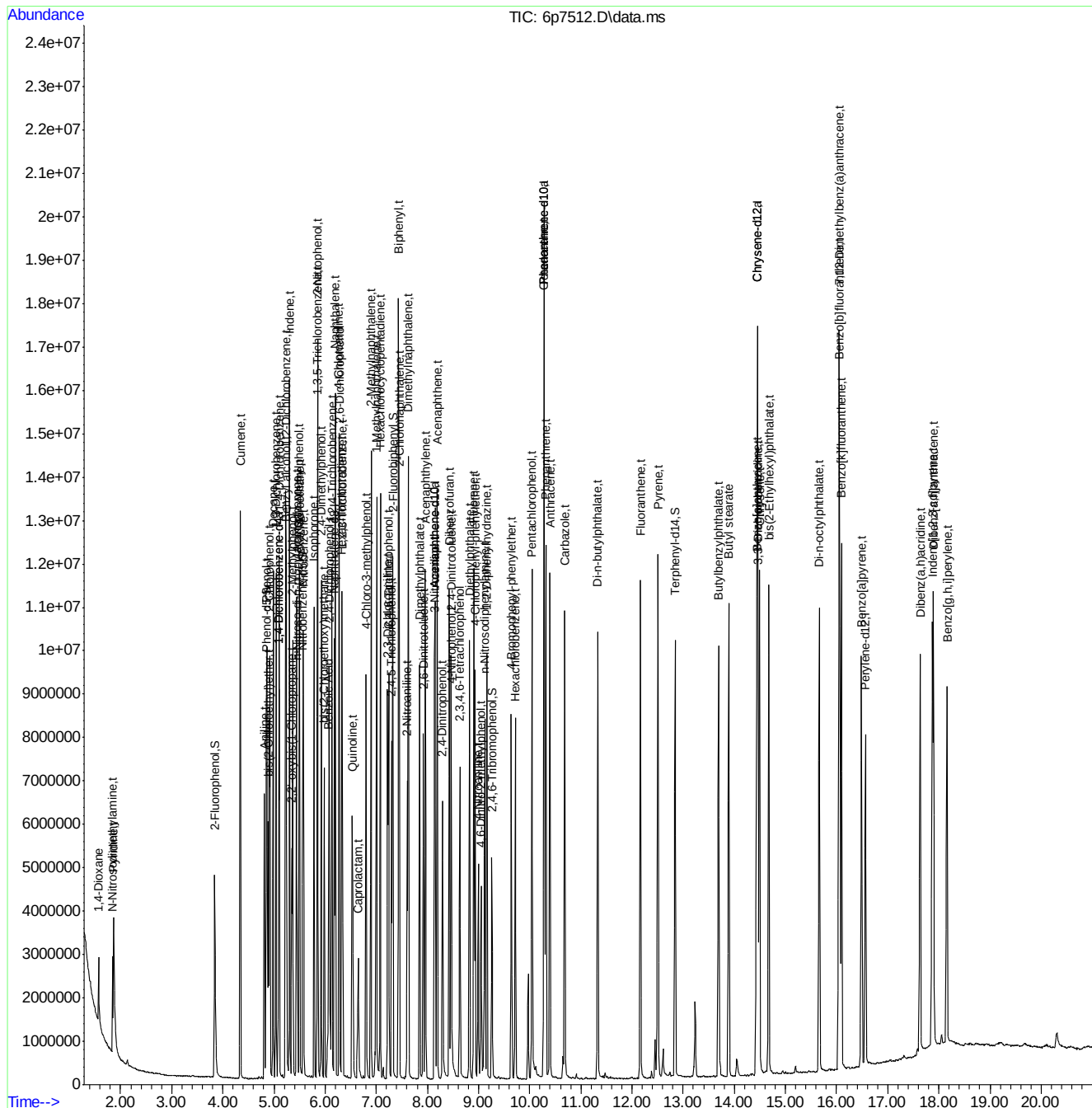
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
84) Pyrene	12.508	202	5990109	50.41	ppb	93
85) Butyl stearate	13.894	56	1422129	49.41	ppb	86
87) Butylbenzylphthalate	13.696	149	2797656	49.57	ppb	94
88) Benzo[a]anthracene	14.439	228	5500884	51.08	ppb	99
89) 3,3'-Dichlorobenzidine	14.466	252	2051737	56.07	ppb	98
90) Chrysene	14.498	228	5069449	51.15	ppb	100
91) bis(2-Ethylhexyl)phtha...	14.674	149	3933311	51.43	ppb	99
93) Di-n-octylphthalate	15.664	149	6787958	55.02	ppb	99
94) Benzo[b]fluoranthene	16.060	252	5967814	57.81	ppb	96
95) Benzo[k]fluoranthene	16.097	252	5352292	56.29	ppb	99
96) Benzo[a]pyrene	16.493	252	4868517	54.87	ppb	96
97) Indeno[1,2,3-cd]pyrene	17.873	276	5302924	57.98	ppb	97
98) Dibenz(a,h)acridine	17.638	279	4621779	57.18	ppb	99
99) Dibenz[a,h]anthracene	17.900	278	5236272	59.71	ppb	97
100) 7,12-Dimethylbenz(a)an...	16.054	256	2747078	47.76	ppb	97
101) Benzo[g,h,i]perylene	18.162	276	4855310	55.49	ppb	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p319\
Data File : 6p7512.D
Acq On : 29 May 2014 10:07 pm
Operator : andrews1
Sample : cc277-50
Misc : op74494,e6p319
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 30 09:28:54 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Sat May 24 10:45:50 2014
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: E6P319-CC277

Method: SW846 8270D

Lab FileID: 6P7512.D

Analyst approved: 05/30/14 09:37 Ashley Royal

Injection Time: 05/29/14 22:07

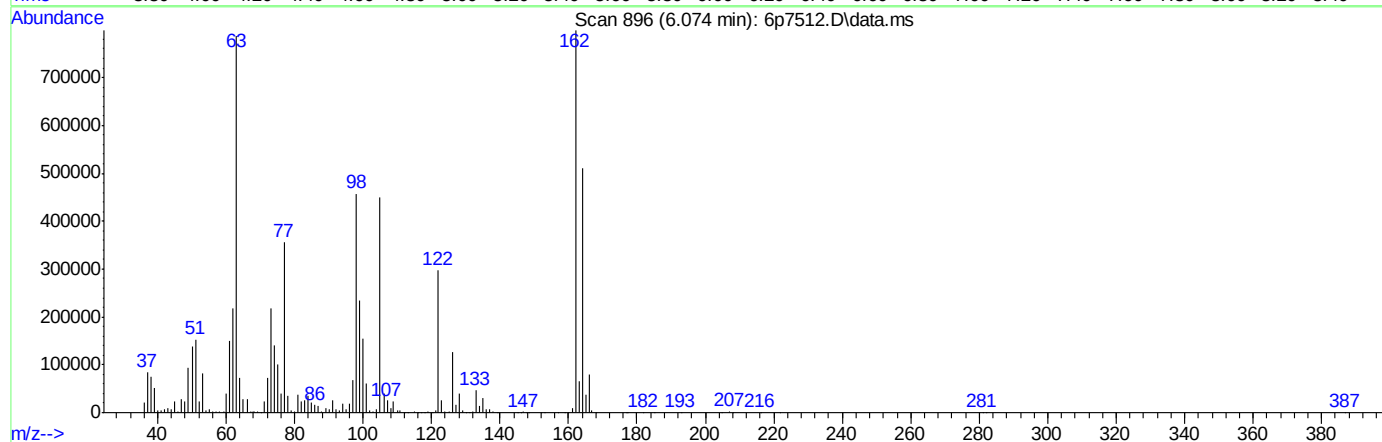
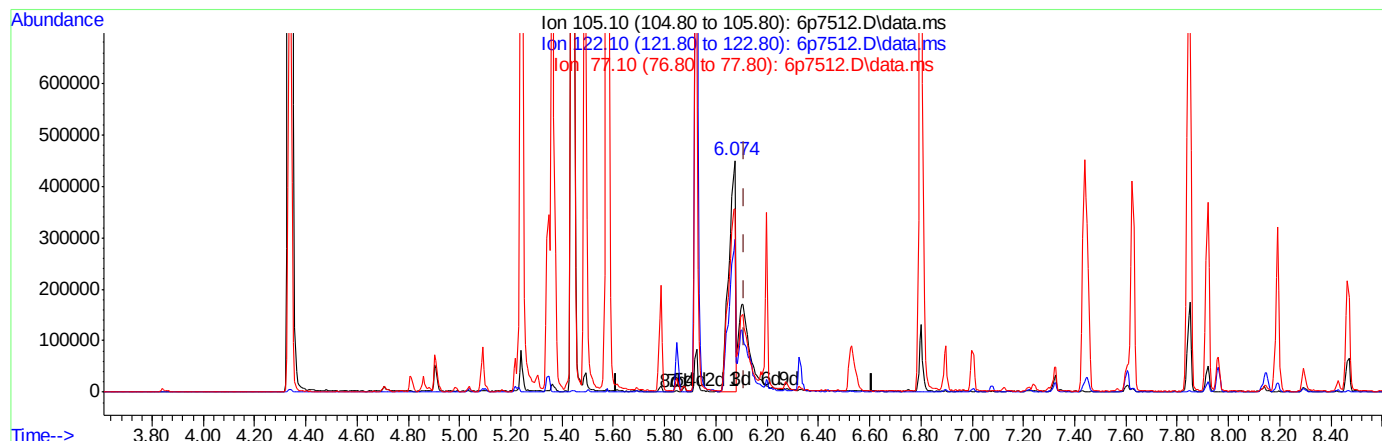
Supervisor approved: 06/02/14 22:03 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
n-Nitrosodimethylamine	62-75-9		1.84	Poor instrument integration
Benzoic Acid	65-85-0		6.07	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\6p319\
Data File : 6p7512.D
Acq On : 29 May 2014 10:07 pm
Operator : andrews1
Sample : cc277-50
Misc : op74494,e6p319
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 29 22:30:32 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Sat May 24 10:45:50 2014
Response via : Initial Calibration



(31) Benzoic Acid

6.074min (-0.038) 42.98ppb

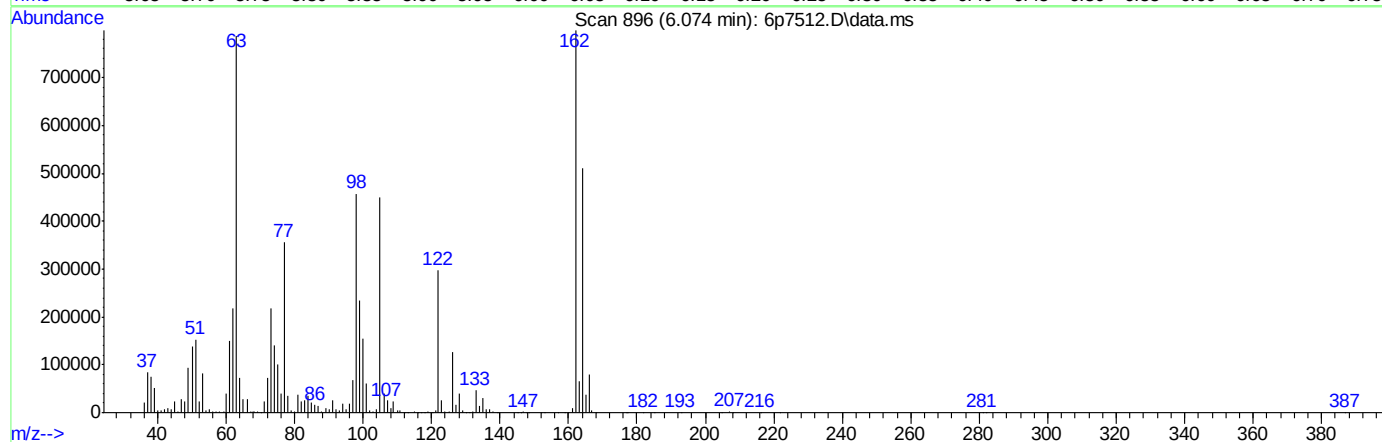
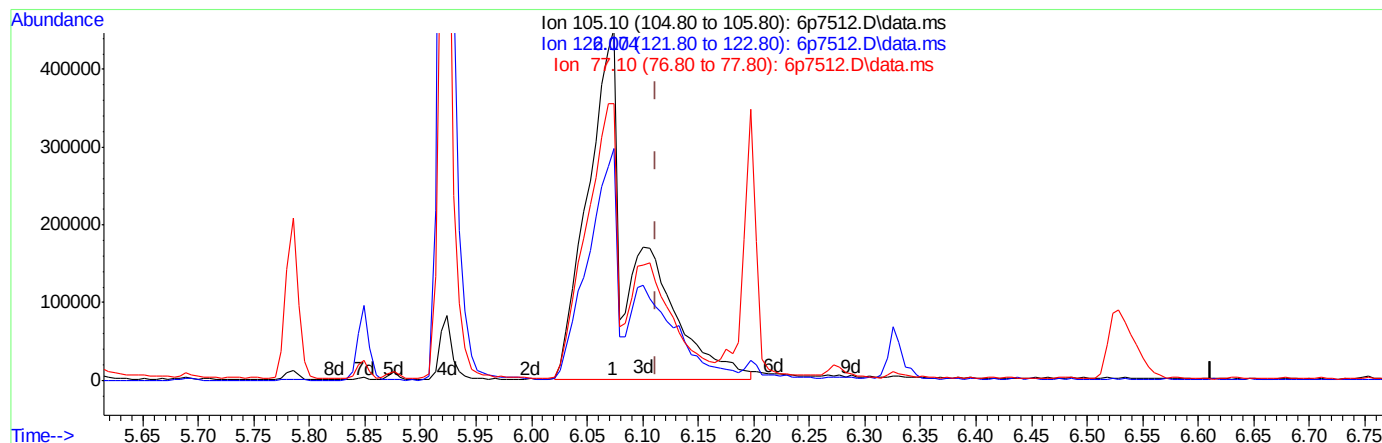
response 796745

Ion	Exp%	Act%
105.10	100	100
122.10	25.10	67.19#
77.10	34.70	83.05#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\6p319\
Data File : 6p7512.D
Acq On : 29 May 2014 10:07 pm
Operator : andrews1
Sample : cc277-50
Misc : op74494,e6p319
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 29 22:30:32 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Sat May 24 10:45:50 2014
Response via : Initial Calibration



(31) Benzoic Acid

6.074min (-0.038) 70.52ppb m

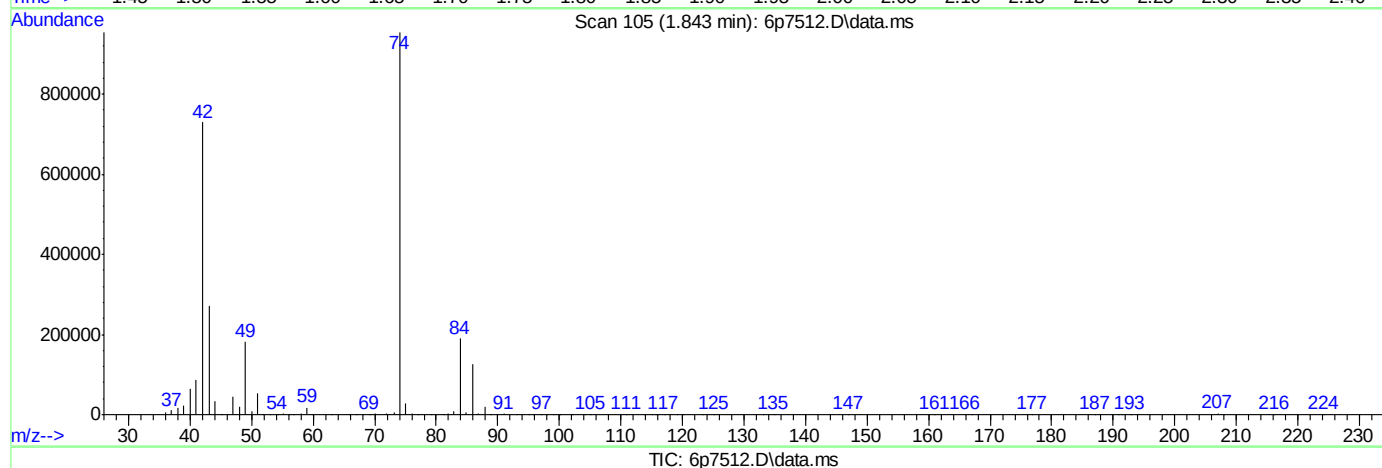
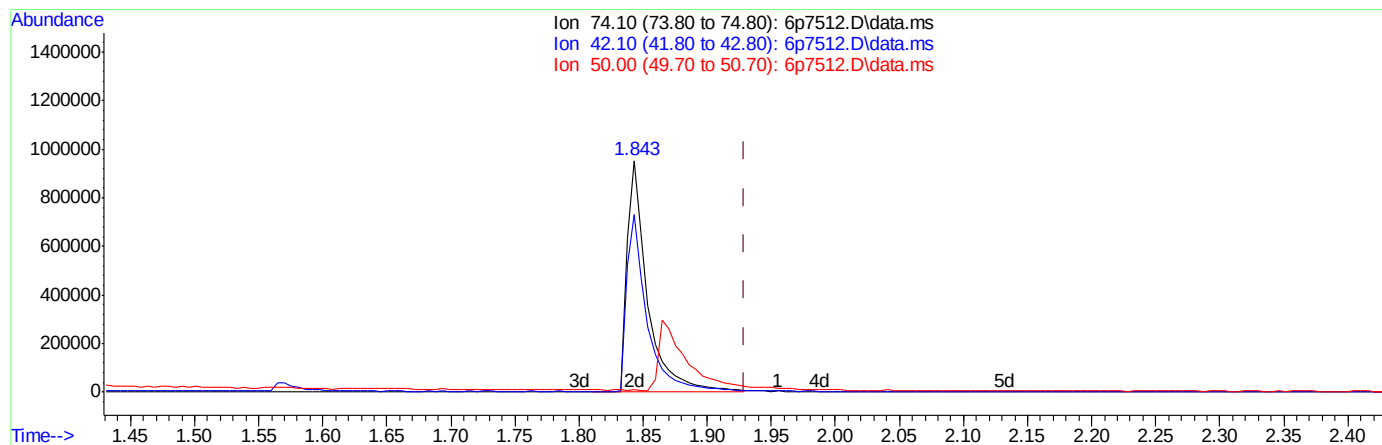
response 1307315

Ion	Exp%	Act%
105.10	100	100
122.10	25.10	40.95
77.10	34.70	50.61
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p319\
Data File : 6p7512.D
Acq On : 29 May 2014 10:07 pm
Operator : andrews1
Sample : cc277-50
Misc : op74494,e6p319
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 30 09:28:54 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Sat May 24 10:45:50 2014
Response via : Initial Calibration



(4) N-Nitrosodimethylamine (t)

1.843min (-0.086) 42.20ppb m

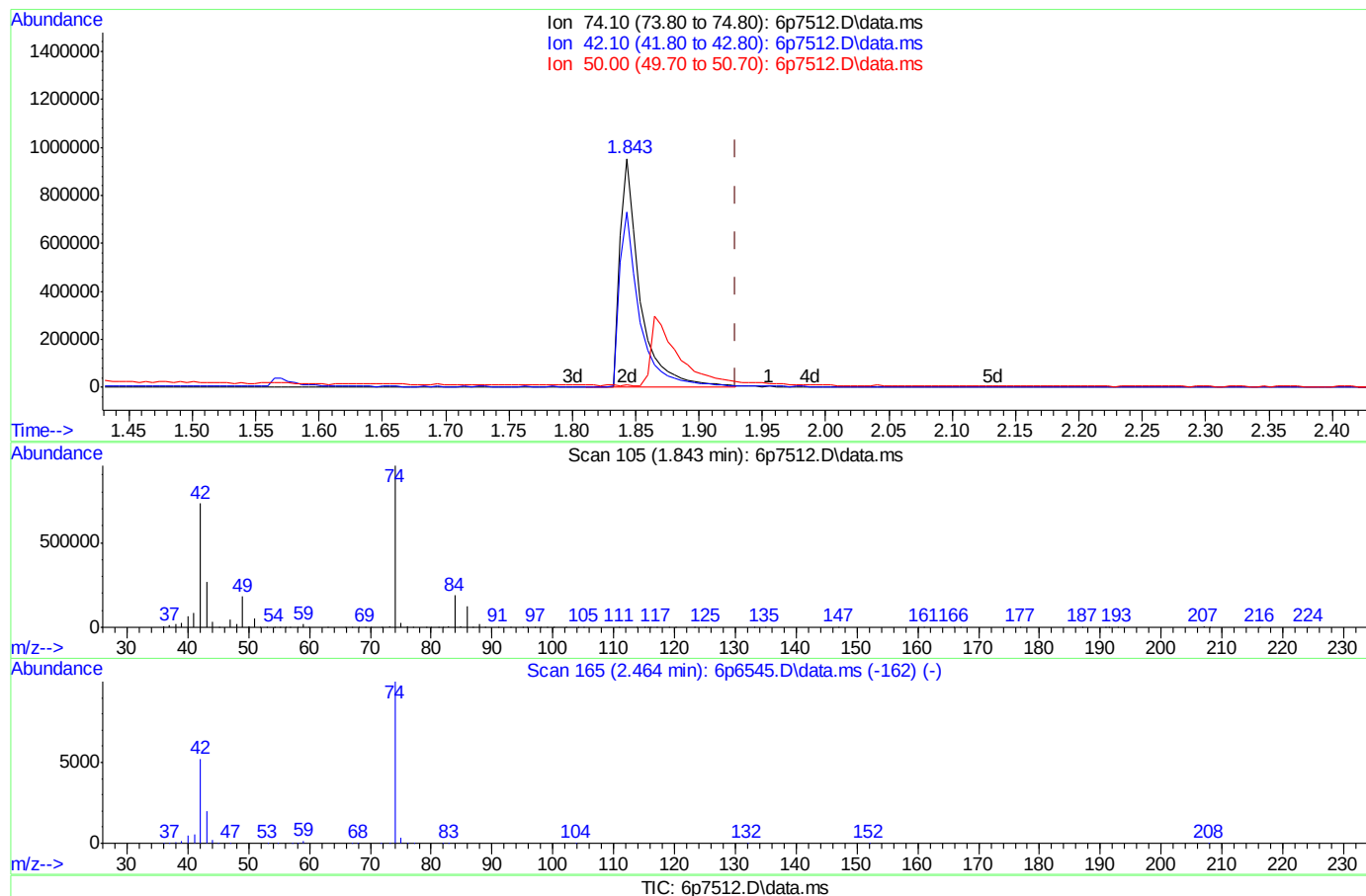
response 1062039

Ion	Exp%	Act%
74.10	100	100
42.10	52.20	76.42
50.00	0.00	0.99
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\6p319\
Data File : 6p7512.D
Acq On : 29 May 2014 10:07 pm
Operator : andrews1
Sample : cc277-50
Misc : op74494,e6p319
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 30 09:28:54 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Sat May 24 10:45:50 2014
Response via : Initial Calibration



(4) N-Nitrosodimethylamine (t)

1.843min (-0.086) 42.20ppb m

response 1062039

Ion	Exp%	Act%
74.10	100	100
42.10	52.20	76.42
50.00	0.00	0.99
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p319\
 Data File : 6p7513.D
 Acq On : 29 May 2014 10:35 pm
 Operator : andrews1
 Sample : cc276-50
 Misc : op74494,e6p319
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 30 09:30:52 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Sat May 24 10:45:50 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.084	152	986734	40.00	ppb	-0.06
24) Naphthalene-d8	6.175	136	3788609	40.00	ppb	-0.07
47) Acenaphthene-d10	8.149	164	2283889	40.00	ppb	-0.09
69) Phenanthrene-d10	10.273	188	3688880	40.00	ppb	-0.11
83) Chrysene-d12	14.444	240	4094543	40.00	ppb	-0.11
92) Perylene-d12	16.563	264	3708394	40.00	ppb	-0.11
102) 1,4-Dichlorobenzene-d4a	5.084	152	986734	40.00	ppb	-0.06
104) Phenanthrene-d10a	10.273	188	3688880	40.00	ppb	-0.11
106) Chrysene-d12a	14.444	240	4094543	40.00	ppb	-0.11
108) Acenaphthene-d10a	8.149	164	2283889	40.00	ppb	-0.09
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0d	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0d	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
86) Terphenyl-d14	0.000	244	0d	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						
103) Benzaldehyde	4.694	105	1201375	34.06	ppb	Qvalue 94
105) Atrazine	9.973	215	541807	51.22	ppb	82
107) Benzidine	12.449	184	1603963	25.62	ppb	97
109) 1,2,4,5-Tetrachloroben...	7.085	216	1509180	49.35	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

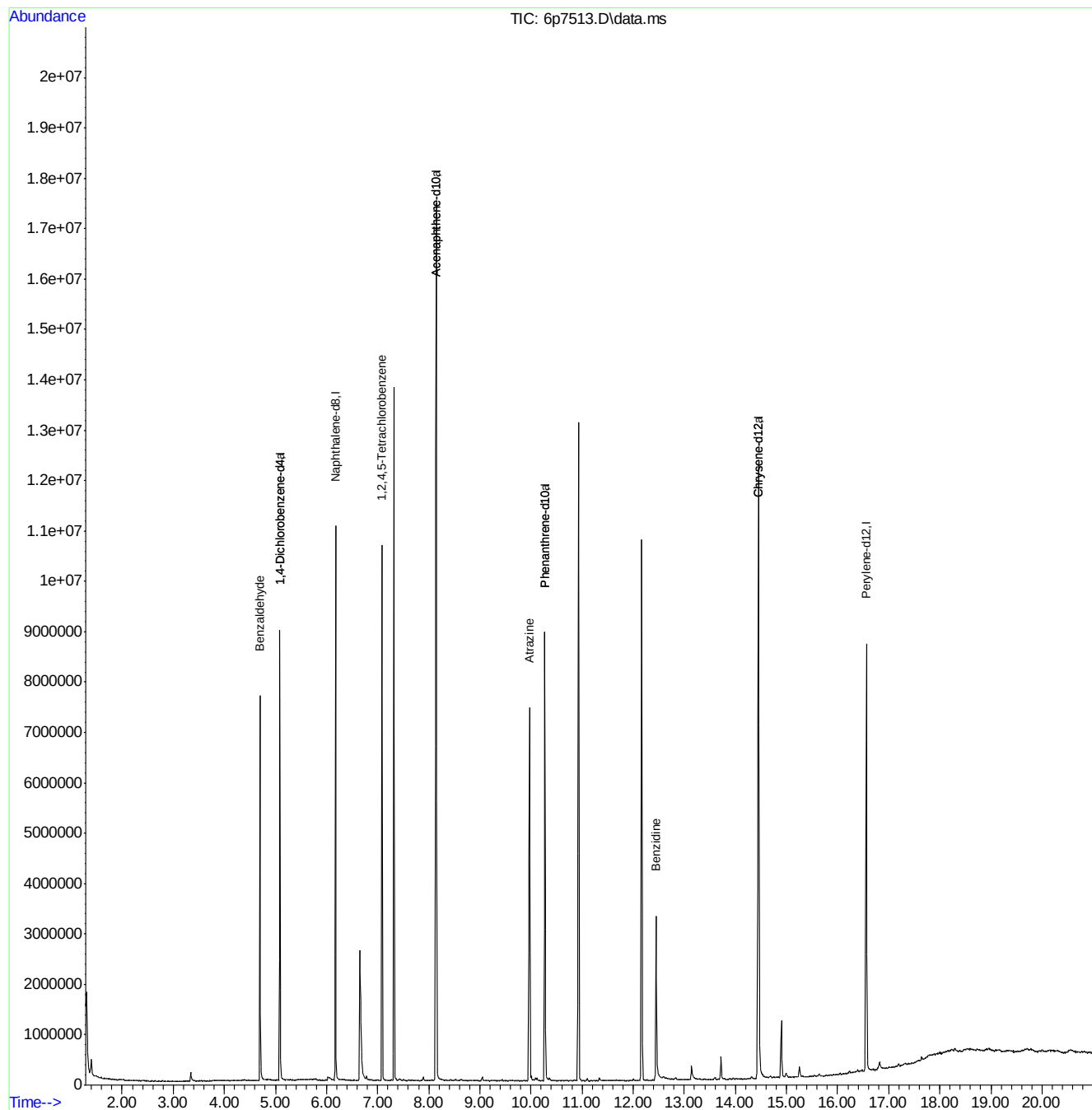
9.6.55

9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p319\
Data File : 6p7513.D
Acq On : 29 May 2014 10:35 pm
Operator : andrews1
Sample : cc276-50
Misc : op74494,e6p319
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 30 09:30:52 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Sat May 24 10:45:50 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p323\
 Data File : 6p7630.D
 Acq On : 2 Jun 2014 9:34 am
 Operator : ashleyv
 Sample : cc277-50
 Misc : op74494,e6p323
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 03 11:58:52 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Fri May 30 14:18:06 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.052	152	1244559	40.00	ppb	-0.04
24) Naphthalene-d8	6.138	136	4858009	40.00	ppb	-0.04
47) Acenaphthene-d10	8.106	164	2869164	40.00	ppb	-0.05
69) Phenanthrene-d10	10.235	188	4943346	40.00	ppb	-0.05
83) Chrysene-d12	14.412	240	5283713	40.00	ppb	-0.05
92) Perylene-d12	16.530	264	4339536	40.00	ppb	-0.04
102) 1,4-Dichlorobenzene-d4a	5.052	152	1244559	40.00	ppb	-0.04
104) Phenanthrene-d10a	10.235	188	4943346	40.00	ppb	-0.05
106) Chrysene-d12a	14.412	240	5283713	40.00	ppb	-0.05
108) Acenaphthene-d10a	8.106	164	2869164	40.00	ppb	-0.05

System Monitoring Compounds						
5) 2-Fluorophenol	3.806	112	2229106	49.71	ppb	-0.04
Spiked Amount 50.000			Recovery	=	99.42%	
8) Phenol-d5	4.822	99	3110274	48.51	ppb	-0.03
Spiked Amount 50.000			Recovery	=	97.02%	
25) Nitrobenzene-d5	5.528	82	3045063	47.47	ppb	-0.03
Spiked Amount 50.000			Recovery	=	94.94%	
51) 2-Fluorobiphenyl	7.283	172	4707023	55.84	ppb	-0.04
Spiked Amount 50.000			Recovery	=	111.68%	
73) 2,4,6-Tribromophenol	9.219	330	738160	57.70	ppb	-0.05
Spiked Amount 50.000			Recovery	=	115.40%	
86) Terphenyl-d14	12.797	244	5339710	52.04	ppb	-0.05
Spiked Amount 50.000			Recovery	=	104.08%	

Target Compounds						Qvalue
2) 1,4-Dioxane	1.533	88	1003779m	46.56	ppb	
3) Pyridine	1.827	79	2625667	46.55	ppb	82
4) N-Nitrosodimethylamine	1.806	74	1486766	44.92	ppb	74
6) Indene	5.266	116	4299272	51.62	ppb	97
7) Cumene	4.298	105	6770526	51.23	ppb	99
9) Phenol	4.833	94	3507672	47.34	ppb	94
10) Aniline	4.774	93	3272449	40.03	ppb	95
11) bis(2-Chloroethyl)ether	4.849	93	2386227	45.92	ppb	96
12) 2-Chlorophenol	4.886	128	2351219	55.38	ppb	97
13) Decane	4.945	43	1877240	59.89	ppb	80
14) 1,3-Dichlorobenzene	5.004	146	2540926	56.38	ppb	96
15) 1,4-Dichlorobenzene	5.068	146	2559176	56.49	ppb	98
16) Benzyl alcohol	5.207	108	1668325	53.42	ppb	90
17) 1,2-Dichlorobenzene	5.197	146	2436166	57.55	ppb	97
18) Acetophenone	5.405	105	3893527	49.86	ppb	88
19) 2-Methylphenol	5.330	108	2269299	52.26	ppb	99
20) 2,2'-oxybis(1-Chloropr...	5.309	121	742707	49.88	ppb	# 75
21) 3&4-Methylphenol	5.459	108	2494489	53.46	ppb	99
22) n-Nitroso-di-n-propyla...	5.427	70	2013646	48.00	ppb	90
23) Hexachloroethane	5.464	201	922451	60.53	ppb	98
26) Nitrobenzene	5.544	77	3348390	50.77	ppb	93
27) Quinoline	6.486	129	4408975	51.84	ppb	99
28) Isophorone	5.748	82	5285472	48.39	ppb	94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p323\
 Data File : 6p7630.D
 Acq On : 2 Jun 2014 9:34 am
 Operator : ashleyv
 Sample : cc277-50
 Misc : op74494,e6p323
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 03 11:58:52 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Fri May 30 14:18:06 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
29) 2-Nitrophenol	5.812	139	1223384	58.07	ppb	80
30) 2,4-Dimethylphenol	5.887	107	2596388	52.21	ppb	98
31) Benzoic Acid	6.047	105	1934131m	76.45	ppb	
32) bis(2-Chloroethoxy)met...	5.945	93	2775995	46.10	ppb	98
33) 2,4-Dichlorophenol	6.042	162	1819087	60.04	ppb	97
34) 2,6-Dichlorophenol	6.240	162	1826392	59.29	ppb	97
35) 1,3,5-Trichlorobenzene	5.817	180	2208133	57.76	ppb	99
36) 1,2,4-Trichlorobenzene	6.095	180	2009500	57.15	ppb	97
37) 1,2,3-Trichlorobenzene	6.298	180	2035382	56.04	ppb	97
38) Naphthalene	6.159	128	6583121	53.47	ppb	98
39) 4-Chloroaniline	6.234	127	2687718	51.83	ppb	94
40) 2,3-Dichloroaniline	7.181	161	2268510	53.98	ppb	97
41) Caprolactam	6.619	55	838995	48.08	ppb	90
42) Hexachlorobutadiene	6.282	225	1275066	64.23	ppb	96
43) 4-Chloro-3-methylphenol	6.764	107	2493430	54.09	ppb	99
44) 2-Methylnaphthalene	6.855	141	3834482	55.39	ppb	98
45) 1-Methylnaphthalene	6.962	141	3885657	54.70	ppb	99
46) Dimethylnaphthalene	7.588	156	4139255	53.96	ppb	99
48) Hexachlorocyclopentadiene	7.037	237	2297920	107.99	ppb	100
49) 2,4,6-Trichlorophenol	7.202	196	1310908	58.84	ppb	97
50) 2,4,5-Trichlorophenol	7.267	196	1375933	58.68	ppb	98
52) 2-Chloronaphthalene	7.411	162	4216936	55.89	ppb	100
53) Biphenyl	7.395	154	5663784	54.48	ppb	99
54) 2-Nitroaniline	7.566	65	1808709	54.41	ppb	95
55) Dimethylphthalate	7.801	163	4674935	55.38	ppb	99
56) Acenaphthylene	7.919	152	6763713	55.10	ppb	99
57) 2,6-Dinitrotoluene	7.882	165	1087480	56.15	ppb	96
58) 3-Nitroaniline	8.096	138	1175431	53.60	ppb	98
59) Acenaphthene	8.149	153	4221883	54.46	ppb	100
60) 2,4-Dinitrophenol	8.267	184	1151424	102.70	ppb	95
61) 4-Nitrophenol	8.427	109	945743	53.07	ppb	85
62) Dibenzofuran	8.384	168	5901313	55.60	ppb	100
63) 2,4-Dinitrotoluene	8.433	165	1552368	58.18	ppb	90
64) 2,3,4,6-Tetrachlorophenol	8.593	232	1114795	57.20	ppb	97
65) Diethylphthalate	8.775	149	4856028	54.19	ppb	99
66) Fluorene	8.861	166	4813866	54.84	ppb	99
67) 4-Chlorophenyl-phenyle...	8.887	204	2180211	56.59	ppb	98
68) 4-Nitroaniline	8.951	138	1106518	51.75	ppb	90
70) 4,6-Dinitro-2-methylph...	9.021	198	832529	52.74	ppb	97
71) n-Nitrosodiphenylamine	9.074	169	3194291	52.32	ppb	99
72) 1,2-Diphenylhydrazine	9.117	77	6441486	45.54	ppb	96
74) 4-Bromophenyl-phenylether	9.593	248	1288017	55.56	ppb	97
75) Hexachlorobenzene	9.679	284	1539101	54.78	ppb	97
76) Pentachlorophenol	10.005	266	1693974	112.04	ppb	98
77) Phenanthrene	10.273	178	6893727	52.04	ppb	99
78) Anthracene	10.347	178	6920370	52.16	ppb	99
79) Carbazole	10.642	167	6495840	49.92	ppb	99
80) Di-n-butylphthalate	11.278	149	8186019	52.62	ppb	99
81) Fluoranthene	12.123	202	7430478	53.14	ppb	95
82) Octadecane	10.235	57	2940784	47.46	ppb	88

9.6.56
9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p323\
 Data File : 6p7630.D
 Acq On : 2 Jun 2014 9:34 am
 Operator : ashleyv
 Sample : cc277-50
 Misc : op74494,e6p323
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 03 11:58:52 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Fri May 30 14:18:06 2014
 Response via : Initial Calibration

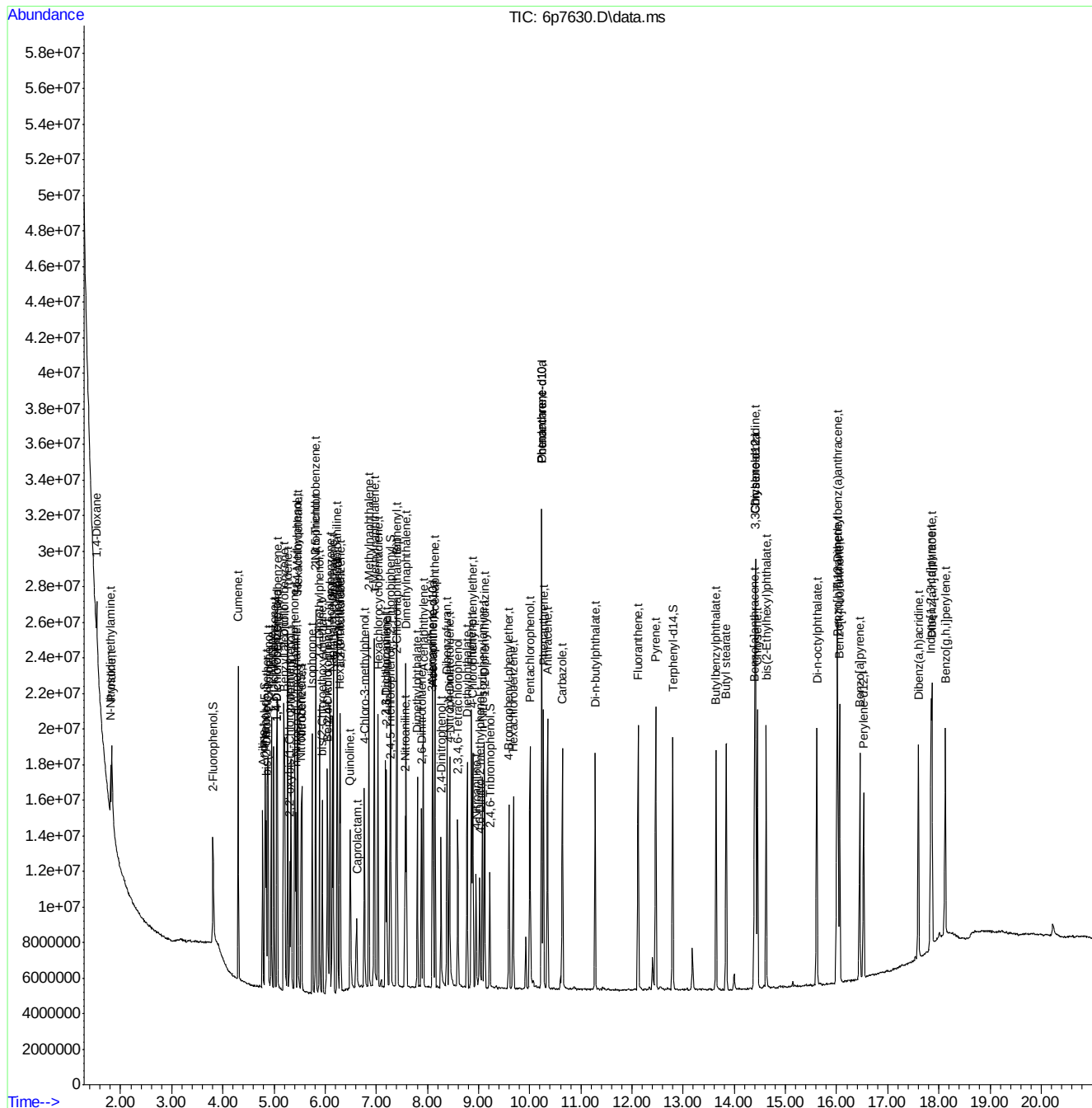
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
84) Pyrene	12.465	202	7793594	50.26	ppb	94
85) Butyl stearate	13.840	56	1987055	52.91	ppb	94
87) Butylbenzylphthalate	13.642	149	3737219	50.75	ppb	97
88) Benzo[a]anthracene	14.396	228	7209183	51.30	ppb	99
89) 3,3'-Dichlorobenzidine	14.418	252	2719936	56.96	ppb	98
90) Chrysene	14.455	228	6617984	51.17	ppb	100
91) bis(2-Ethylhexyl)phtha...	14.626	149	5221258	52.32	ppb	99
93) Di-n-octylphthalate	15.616	149	8987372	58.01	ppb	98
94) Benzo[b]fluoranthene	16.022	252	7674430	59.20	ppb	94
95) Benzo[k]fluoranthene	16.060	252	6836619	57.25	ppb	99
96) Benzo[a]pyrene	16.456	252	6209147	55.72	ppb	98
97) Indeno[1,2,3-cd]pyrene	17.846	276	7337046m	63.88	ppb	
98) Dibenz(a,h)acridine	17.606	279	5877358	57.90	ppb	99
99) Dibenz[a,h]anthracene	17.868	278	6903178	62.68	ppb	98
100) 7,12-Dimethylbenz(a)an...	16.012	256	3392792	46.77	ppb	99
101) Benzo[g,h,i]perylene	18.130	276	6391419	58.17	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

```
Data Path   : C:\msdchem\1\DATA\e6p323\
Data File   : 6p7630.D
Acq On      : 2 Jun 2014    9:34 am
Operator    : ashleyv
Sample      : cc277-50
Misc        : op74494,e6p323
ALS Vial    : 2      Sample Multiplier: 1
```

Quant Time: Jun 03 11:58:52 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Fri May 30 14:18:06 2014
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: E6P323-CC277

Method: SW846 8270D

Lab FileID: 6P7630.D

Analyst approved: 06/03/14 12:32 Ashley Royal

Injection Time: 06/02/14 09:34

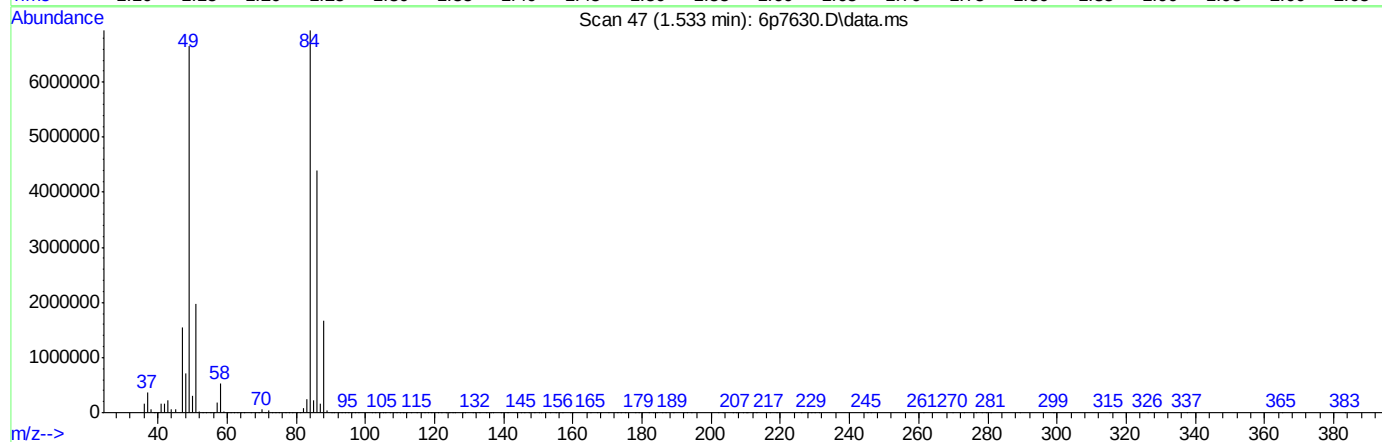
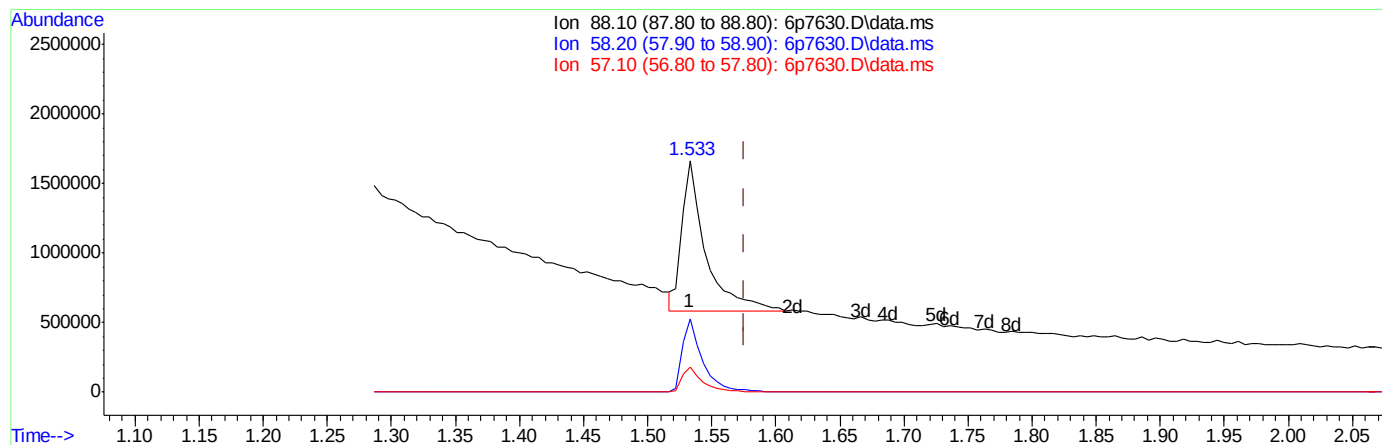
Supervisor approved: 06/03/14 13:30 Cheng-Hwan Ao

Parameter	CAS	Sig#	R.T. (min.)	Reason
1,4-Dioxane	123-91-1		1.53	Poor instrument integration
Benzoic Acid	65-85-0		6.05	Poor instrument integration
Indeno(1,2,3-cd)pyrene	193-39-5		17.85	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\6p323\
Data File : 6p7630.D
Acq On : 2 Jun 2014 9:34 am
Operator : ashleyv
Sample : cc277-50
Misc : op74494,e6p323
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 02 10:00:36 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Fri May 30 14:18:06 2014
Response via : Initial Calibration



(2) 1,4-Dioxane

1.533min (-0.043) 64.47ppb

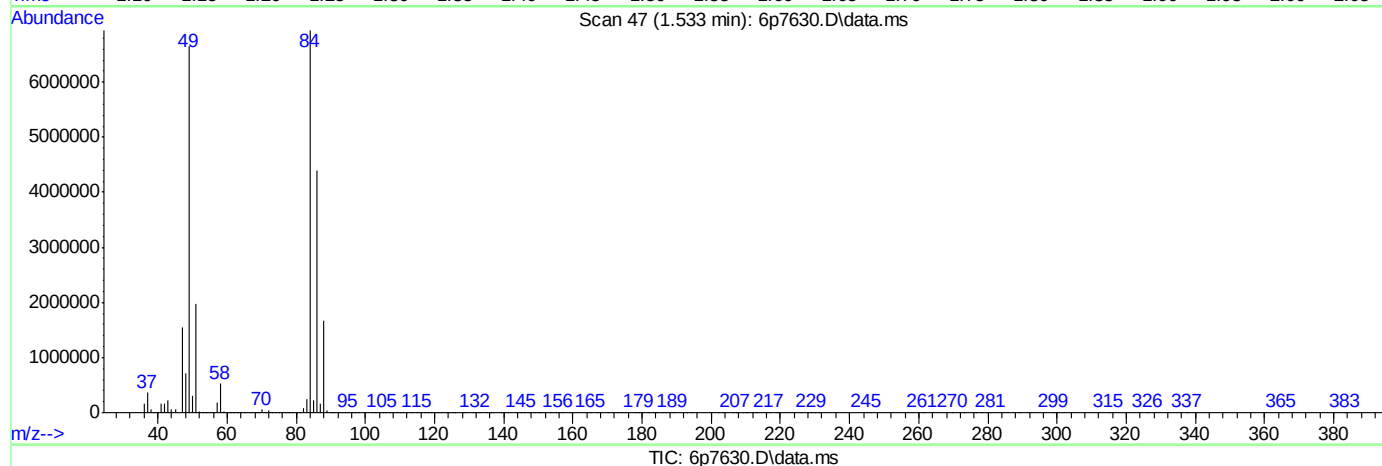
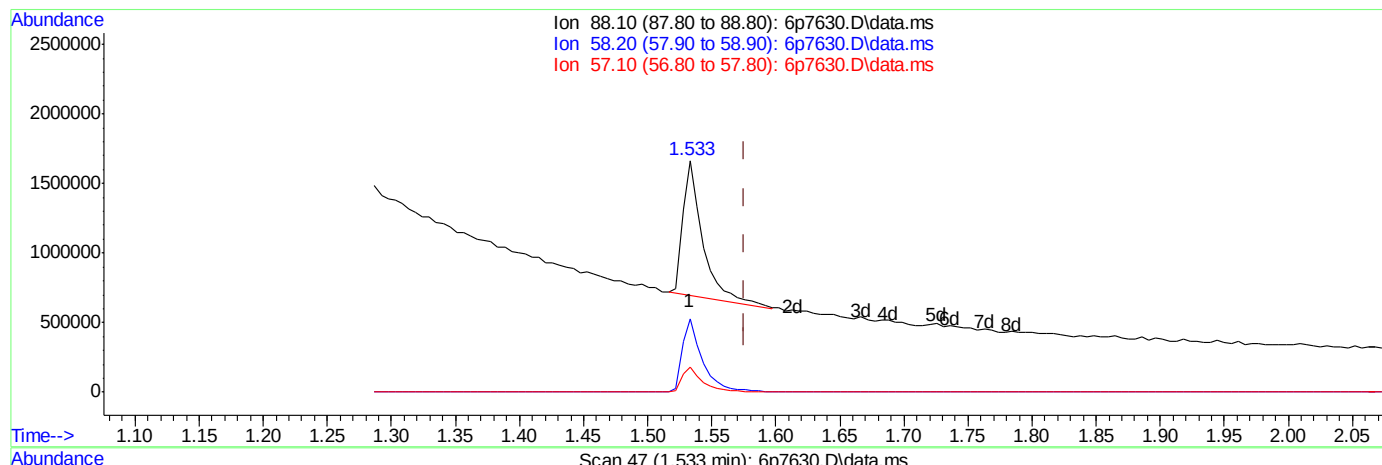
response 1389814

Ion	Exp%	Act%
88.10	100	100
58.20	49.80	41.60
57.10	16.70	14.05
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p323\
Data File : 6p7630.D
Acq On : 2 Jun 2014 9:34 am
Operator : ashleyv
Sample : cc277-50
Misc : op74494,e6p323
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 02 10:00:36 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Fri May 30 14:18:06 2014
Response via : Initial Calibration



(2) 1,4-Dioxane

1.533min (-0.043) 46.56ppb m

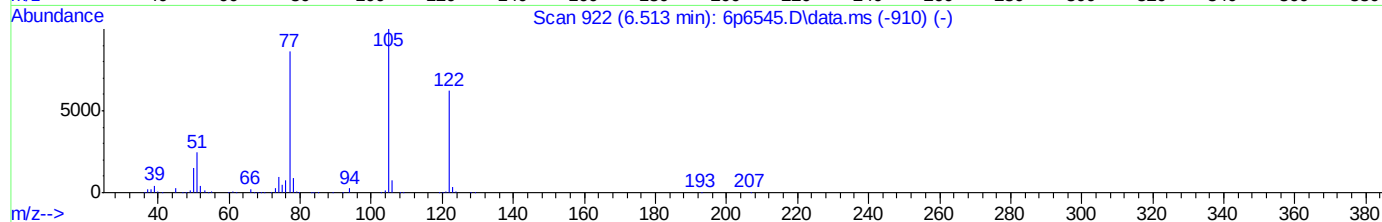
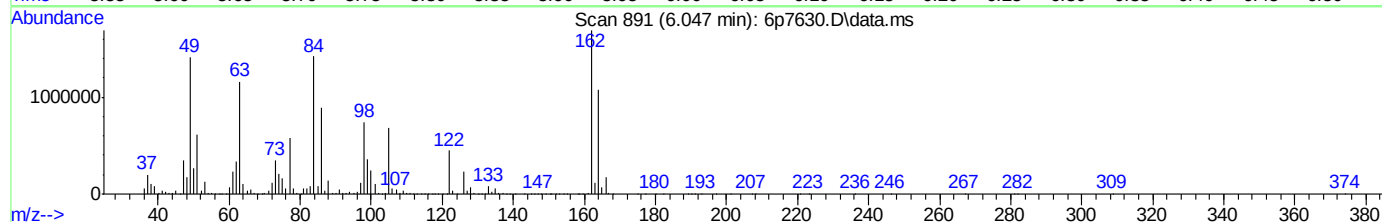
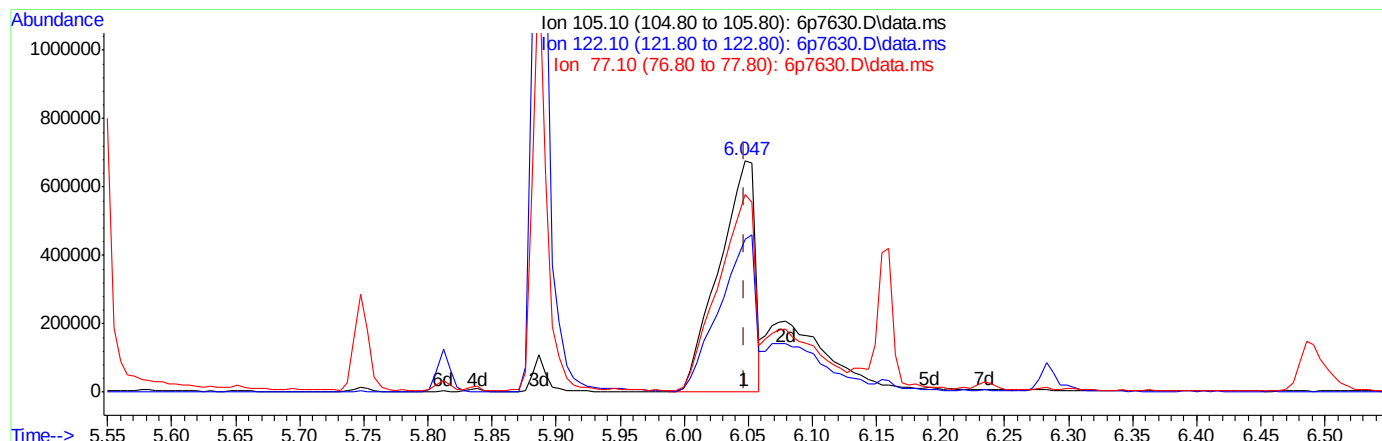
response 1003779

Ion	Exp%	Act%
88.10	100	100
58.20	49.80	57.60
57.10	16.70	19.46
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\6p323\
Data File : 6p7630.D
Acq On : 2 Jun 2014 9:34 am
Operator : ashleyv
Sample : cc277-50
Misc : op74494,e6p323
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 02 10:00:36 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Fri May 30 14:18:06 2014
Response via : Initial Calibration



(31) Benzoic Acid

6.047min (+0.000) 51.37ppb

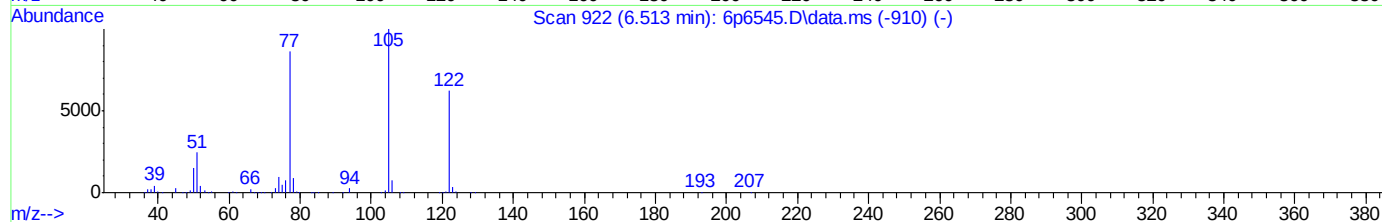
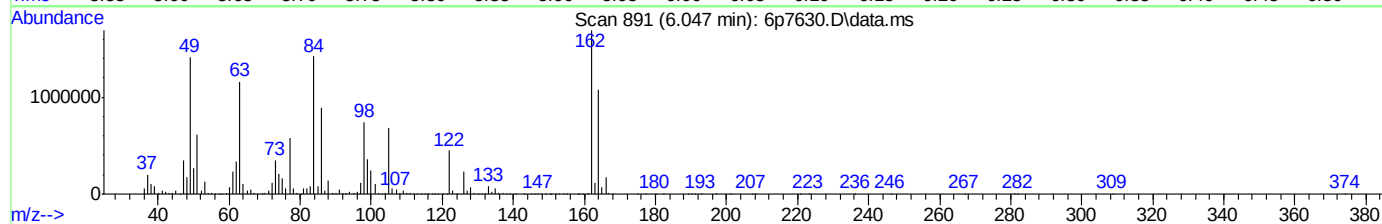
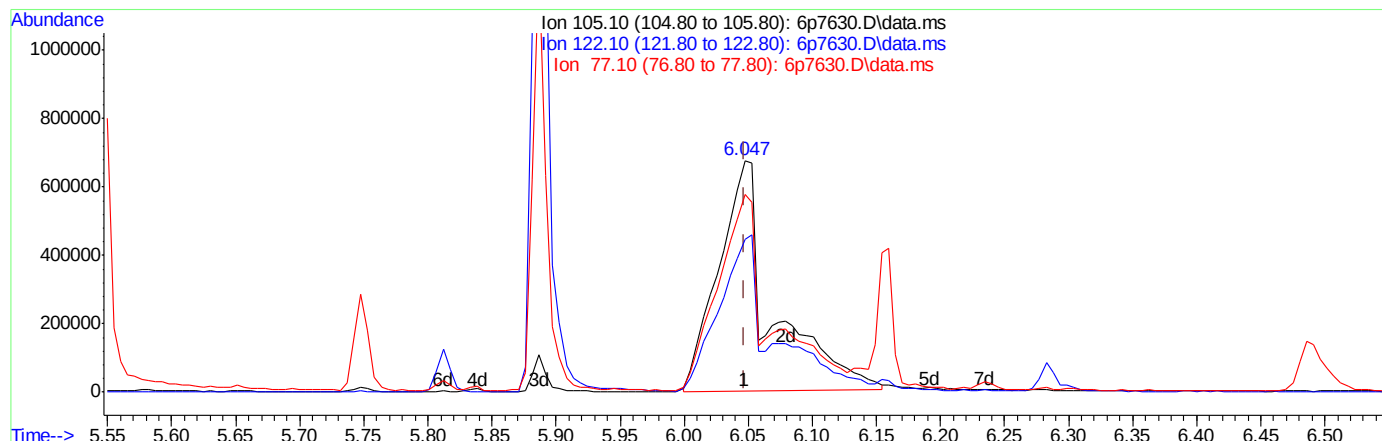
response 1299635

Ion	Exp%	Act%
105.10	100	100
122.10	25.10	69.61#
77.10	34.70	85.64#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\6p323\
Data File : 6p7630.D
Acq On : 2 Jun 2014 9:34 am
Operator : ashleyv
Sample : cc277-50
Misc : op74494,e6p323
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 02 10:00:36 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Fri May 30 14:18:06 2014
Response via : Initial Calibration



(31) Benzoic Acid

6.047min (+0.000) 76.45ppb m

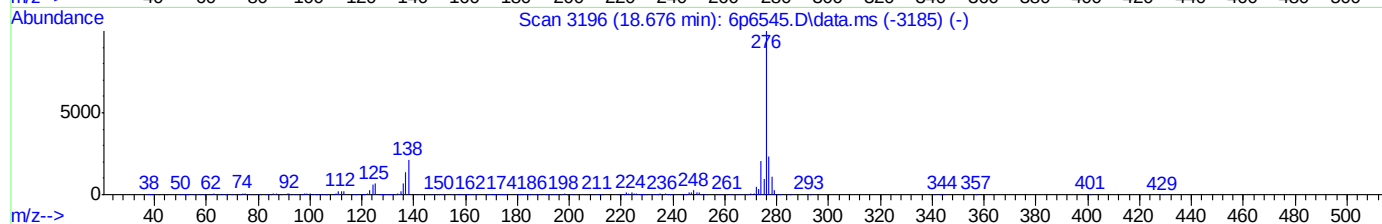
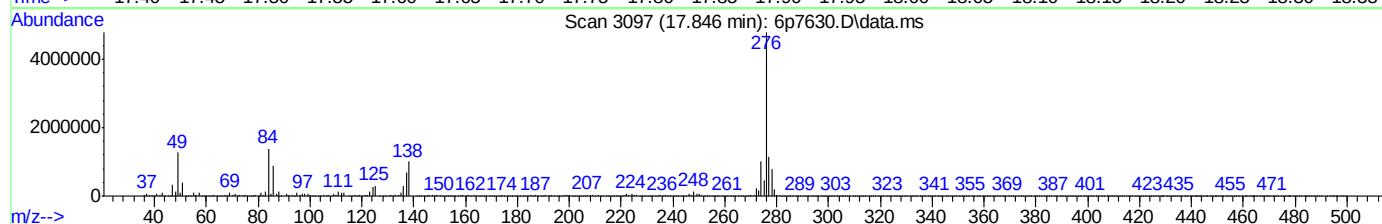
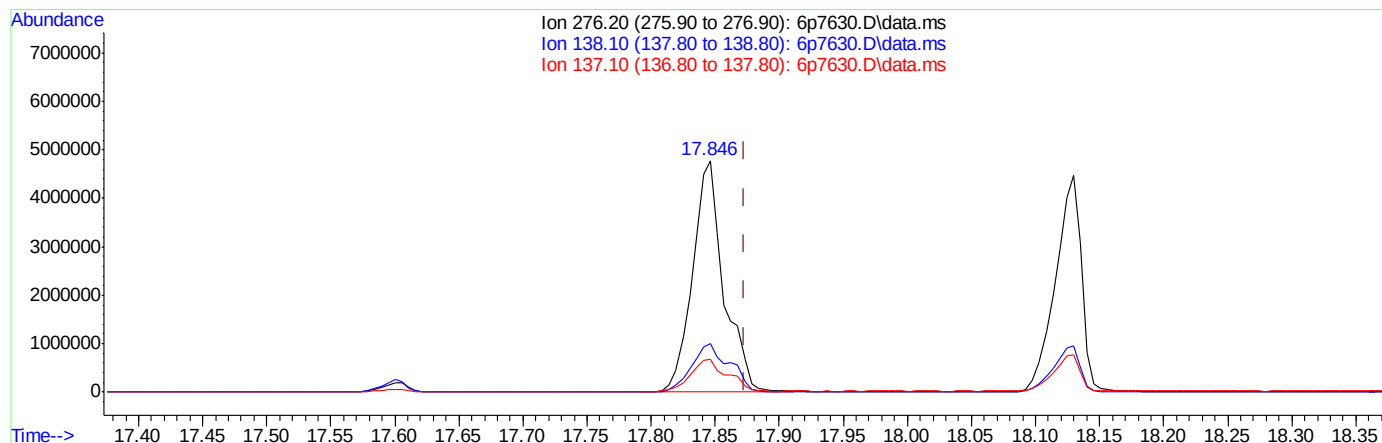
response 1934131

Ion	Exp%	Act%
105.10	100	100
122.10	25.10	46.77#
77.10	34.70	57.55#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\6p323\
Data File : 6p7630.D
Acq On : 2 Jun 2014 9:34 am
Operator : ashleyv
Sample : cc277-50
Misc : op74494,e6p323
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 02 10:00:36 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Fri May 30 14:18:06 2014
Response via : Initial Calibration



(97) Indeno[1,2,3-cd]pyrene (t)

17.846min (-0.027) 70.59ppb

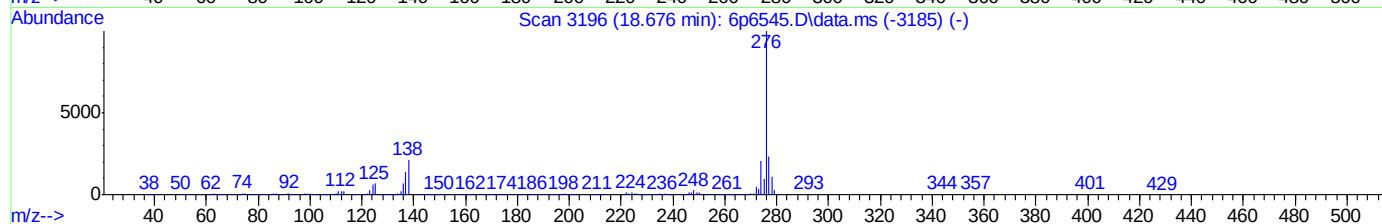
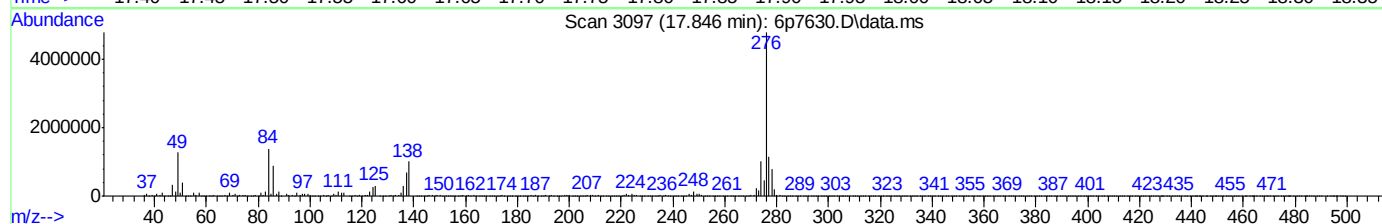
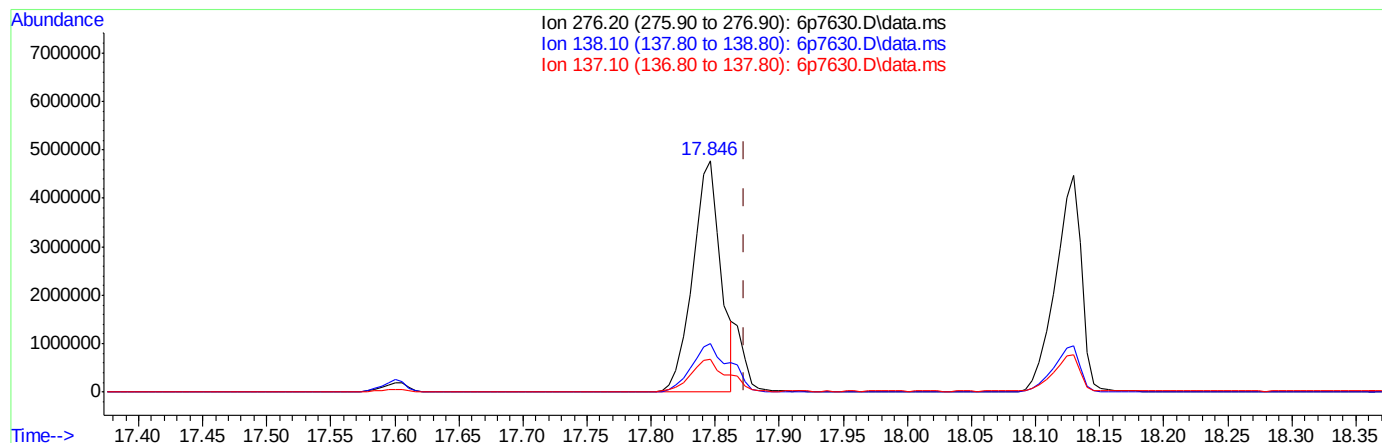
response 8108478

Ion	Exp%	Act%
276.20	100	100
138.10	17.00	20.97
137.10	11.90	13.71
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\6p323\
Data File : 6p7630.D
Acq On : 2 Jun 2014 9:34 am
Operator : ashleyv
Sample : cc277-50
Misc : op74494,e6p323
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 02 10:00:36 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Fri May 30 14:18:06 2014
Response via : Initial Calibration



(97) Indeno[1,2,3-cd]pyrene (t)

17.846min (-0.027) 63.88ppb m

response 7337046

Ion	Exp%	Act%
276.20	100	100
138.10	17.00	21.08
137.10	11.90	14.08
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p323\
 Data File : 6p7631.D
 Acq On : 2 Jun 2014 10:07 am
 Operator : ashleyv
 Sample : cc276-50
 Misc : op74494,e6p323
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 03 12:01:40 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Tue Jun 03 12:00:33 2014
 Response via : Initial Calibration

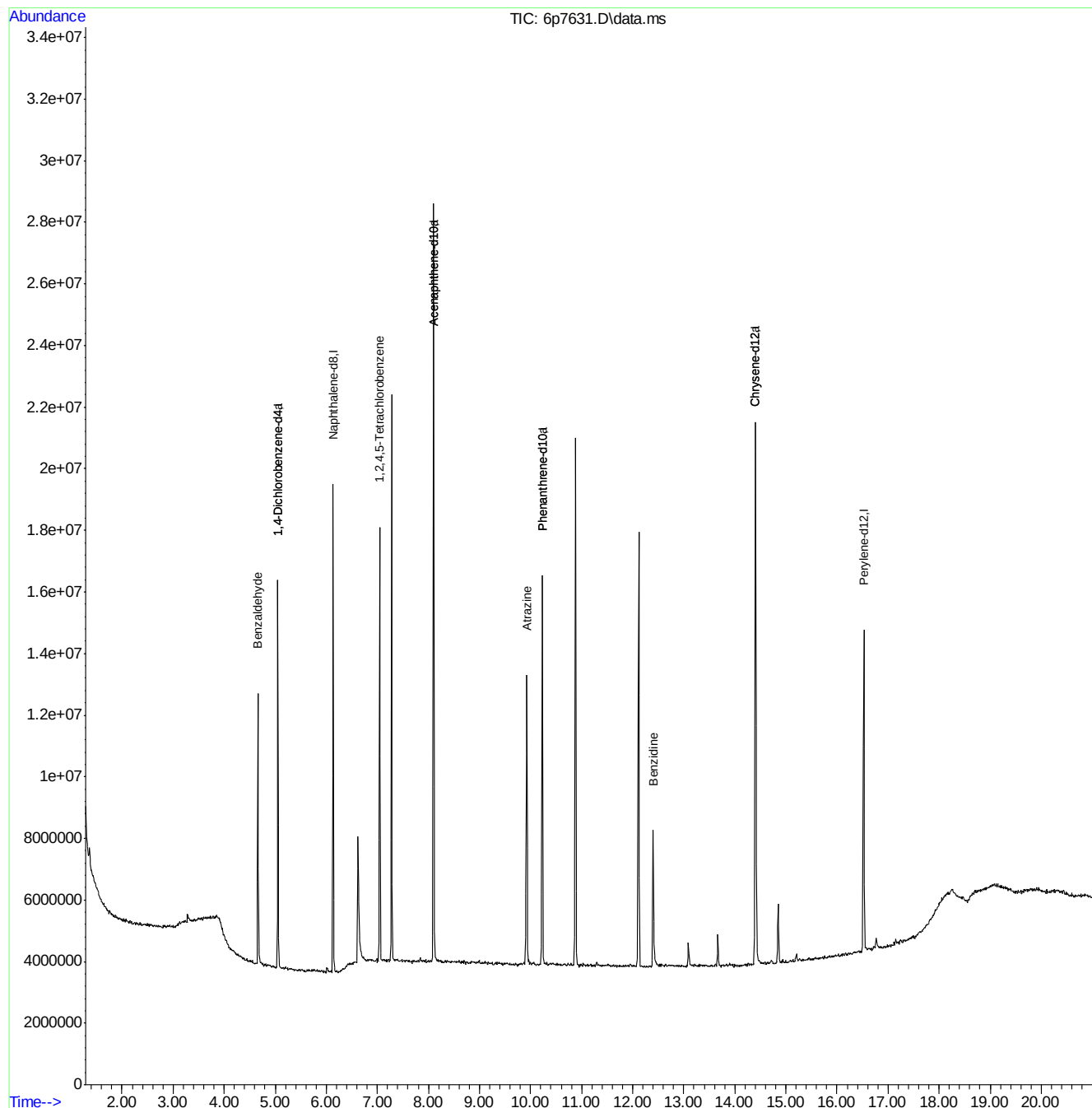
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.052	152	1322230	40.00	ppb	0.00
24) Naphthalene-d8	6.133	136	5045890	40.00	ppb	0.00
47) Acenaphthene-d10	8.106	164	3101030	40.00	ppb	0.00
69) Phenanthrene-d10	10.230	188	4972561	40.00	ppb	0.00
83) Chrysene-d12	14.402	240	5410564	40.00	ppb	0.00
92) Perylene-d12	16.525	264	4620216	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	5.052	152	1322230	40.00	ppb	0.00
104) Phenanthrene-d10a	10.230	188	4972561	40.00	ppb	0.00
106) Chrysene-d12a	14.402	240	5410564	40.00	ppb	0.00
108) Acenaphthene-d10a	8.106	164	3101030	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0d	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0d	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
86) Terphenyl-d14	0.000	244	0d	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						
103) Benzaldehyde	4.656	105	1568104	33.18	ppb	Qvalue 89
105) Atrazine	9.930	215	694119	48.67	ppb	79
107) Benzidine	12.401	184	2206476	26.67	ppb	98
109) 1,2,4,5-Tetrachloroben...	7.047	216	1986569	47.85	ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p323\
Data File : 6p7631.D
Acq On : 2 Jun 2014 10:07 am
Operator : ashleyv
Sample : cc276-50
Misc : op74494,e6p323
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 03 12:01:40 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P277.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Tue Jun 03 12:00:33 2014
Response via : Initial Calibration



Batch ID: E 2P1539

Date: 5-28-14

Analyst Signature: AMO

Standard Data

Lot #	Description	Conc.
SV141362-116	BWA	27h
		10h
		5h
		2h
		1h

Standard Data

Lot #	Description	Conc.
SV131821-43	DFTTP	50ppm
SV141362-116	BWA	100h
		80h
		50h
CP2433	internal std.	9000ppm
Dks47	DCM(HW)	-

Columns: RT15172530min x 25min x 15min

Method 8230/625

Initial Cal. Method M2P1539

Injection Volume: 1ul

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: CA

Date: 5-29-14

R	Data File	Sample ID	Ext. Batch	Test	M T X	ALS #	Dilution n.	L +	I S	S U	Status (Data)	Comments
	2P36997	DFTTP				1					not using	51v 442u
	36998	DFTTP				1					↓	51v 442u
	36999	DFTTP				1					OK	643pm
	367000	blank				2					test	test only.
	37001	ICC1539-50		BMA	W	2					OK	
	37002	IC1539-25		BMA	W	3					OK	
	37003	-100				4					OK	
	37004	-80				5					OK	
	37005	-10				6					OK	
	37006	-5				7					OK	
	37007	-2				8					OK	
	37008	-1				9					OK	

ITX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

Sample volume/weight used and final volumes refer to extraction log.

129

All strikeouts must be initialed, dated and reason code applied as follows:

1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR015-05

Rev. Date: 1/16/2006

Date: 5-29-14

Analyst Signature: OA

Standard Data

Lot #	Description	Conc.
SV141362-136	TC142	5ppm
	↓	2ppm
	↓	1ppm
CV1539	IS	4500ppm
CV1547	2000 ppb	

Standard Data

Lot #	Description	Conc.
SV131287-140	CAFHP	50ppm
SV141362-136	TC142	100ppm
	↓	50ppm
	↓	25ppm
	↓	10ppm

Columns: 147-8us 30m x 0.25mm x 0.15um

Method 8170/625

Initial Cal. Method M2P1539

Injection Volume: 1ul

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: AMO

Date: 5-29-14

Data File	Sample ID	Ext. Batch	Test	M T X	ALS #	Dilution n.	L +	I S	S U	Status (Data)	Comments
2P37009	CAFHP			W	1					OK	8:58 acc
37010	IC1540-100		TC142		2					OK	
37011	IC1540-80				3					OK	
37012	IC1540-50				4					OK	
37013	IC1540-25				5					OK	
37014	IC1540-10				6					OK	
37015	IC1540-5				7					OK	
37016	IC1540-2				8					OK	
37017	IC1540-1				9					OK	
37018	ICV1539-SD		abn sum		10					OK	OP141177-33
37019	ICV1539-SD		bu2		11					OK	-43
37020	ICV1539-SD		bu1		12					OK	-17
37021	ICV1539-SD		acids		13					not using	-29
37022	ICV1539-SD		Amines		14					OK	OP141177-61
37023	ICV1539-SD		3,5 PCB		15					OK	SV141362-72B
37024	ICV1540-SD		HQ		16					OK	OP141130-141

TX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

sample volume/weight used and final volumes refer to extraction log.

Il strikeouts must be initialed, dated and reason code applied as follows:

= reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR015-05

Rev. Date: 1/16/2006

131

Batch ID: E2P1542

Date: 05/30/14

Analyst Signature: HK

Standard Data

Standard Data

Lot #	Description	Conc.

Lot #	Description	Conc.
SVB1214	DFTTP	500PPM
SV14362112	BNA	500PPM
-88	TCY2	SD/4
CH2953	IS	4000/1
DL47	ACEN low	-
5470A53014		

Columns: RFX5MS30Mx.25mm25um

Method 8270/625

Initial Cal. Method M2P1539

Injection Volume: 14L

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [Signature]

Date: 5-31-14

Data File	Sample ID	Ext. Batch	Test	M T X	ALS #	Dilutio n.	L +	I S	S U	Status (Data)	Comments
2P37029	DFTTP			W	1					OK	8:40am
37030	CL1539-SD BNA	0A53014	BNA	W	2					OK	
37031	CL1540-SD		TCY2		3					OK	
37032	OP75202-MB1	75202-1	ABN		4					OK	
37033	-BSI				5					OK	
37034	JB66730-8R	7777A1	EPHEnp12m	S	6	8				OK	ran after 2P 37038
37035	OP75202-BSD	ABN		W	7					OK	ran after 2P 37033
37036	anal-OP14-1177-77				8					OK	Trick low ran after 2P 37032
37037	ABN sum	-OP14-1177-76			9					OK	
37038	JB67977-1	75202-1	+decel mpcresel		10					OK	
37039	JB67412-7B	74949-4	ALBSP121JTCU		11		X			OK	
37040	-7B				12	10				OK	m 1:4
37041	JB67333-1	75004-1	ALB JTCU		13		X			OK	Reedent
37042	-2				14		X			OK	
37043	-3				15		X			OK	
37044	JB67382-1	75027-1	ALB JTCU		16		X			OK	
37045	-2		Reagent 234		17		X			OK	

Matrix = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

Sample volume/weight used and final volumes refer to extraction log.

Strikeouts must be initialed, dated and reason code applied as follows:

1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR015-05

Date: 1/16/2006

135

Batch ID: E2P1542

Date: 5-30-14

Analyst Signature: CA

Standard Data

Standard Data

Lot #	Description	Conc.

Lot #	Description	Conc.
	<u>Source as page # 135</u>	

Columns: ATK-BUS 30m x 0.25mm ID, 0.5µm

Method: 800/625

Initial Cal. Method: u2P1539

Injection Volume: 1 µl

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [Signature]

Date: 5-31-14

Data File	Sample ID	Ext. Batch	Test	M T X	ALS #	Dilution	L +	I S	S U	Status (Data)	Comments
2P37046	JB67332-3	75027	<u>ABN</u>	W	18		X	/	/	OK	
37047	JB67446-1		<u>PAH</u>		19			/	/	OK	
37048	JB67407-9	75064	<u>USL</u>		20			/	/	OK	CFI
37049	JB67898-4	75204	<u>ALCOHOL</u>		21			/	/	OK	
37050	JB67553-1	75064	<u>PAH</u>		22	2		/	/	OK	
37071	JB67412-7	74944	<u>ABSPLENTIC</u>	W	23	40		/	/	OK	3000 after 2P37043
5272	JB67097-8	75064	<u>ANILINE + HBT</u>	W	24			/	/	OK	
5373	JB67097-8				25	2000		/	/	OK	
2P37054	OP75039-mb1	75039	<u>ABN</u>	S	26		X	/	/	OK	
55	JB67523-1		<u>ABTCLUT</u>		27		X	/	/	OK	
56	-19				28			/	/	OK	Not using RER directly phthalate
57	-22				29		X	/	/	OK	5:10pm
58	OP14177-77		<u>Aniline</u>		30			/	/	OK	Low, Ret only
59	-75		<u>Aniline</u>		31			/	/	OK	Carbazole
60	-78				32			/	/	OK	Not Spike
60A	-78				32			/	/	OK	Carbazole

W = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

Sample volume/weight used and final volumes refer to extraction log.

Strikeouts must be initialed, dated and reason code applied as follows:

1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR015-05

Rev. Date: 1/16/2006

137

Batch ID: E6P276

Date: 9/26/14

Analyst Signature: AMD

Standard Data

Lot #	Description	Conc.
SV14136280	TCL42	2ppm
DK237	DCM (HW)	1ppm
K2933	Internal Std.	400ppm
SV13182413	DFTPP	50ppm

Standard Data

Lot #	Description	Conc.
SV14136280	TCL42	100ppm
B		80ppm
C		50ppm
D		25ppm
E		10ppm
F		5ppm

Columns: PTV5MS30m x 15mm x 25um

Method 8270/625

Initial Cal. Method M6P274

Injection Volume: 1ul

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: DA

Date: 9-28-14

Data File	Sample ID	Ext. Batch	Test	M T X	ALS #	Dilutio n.	L +	I S	S U	Status (Data)	Comments
6P6523A	DFTPP				1					NG	127 failed high/adjust method
6524	IC276-50		TCL42	W	2					OK	SV 14 B62 - 80C
6525	IC276-25				3					OK	- 80D
6526	-80				4					OK	SV 141362 - 80B
6527	-100				5					OK	- 80A
6528	-10				6					OK	- 80E
6529	-5				7					OK	- 80F
6530	-2				8					OK	- 80G
6531	-1				9					OK	- 80H
6532	ICV274-50		BN1		10					not run	without full seg OP14113094 50ppm
6533	-50		BN2		11						OP14113092 50ppm
6534	-50		Acid		12						OP14113083 50ppm
6535	-50		ABN surr		13						OP14113062 50ppm
6536	-50		Anilines		14						SV141362112 50ppm
6537	ICV27650		Benzylamines		15						SV1413627BB 50ppm
6538	-50		HQ		16						SV141362113 50ppm
6539	DFTPP				1					NG	failed 127 return

TX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

Sample volume/weight used and final volumes refer to extraction log.

1 strikeouts must be initialed, dated and reason code applied as follows:

= reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

rm: OR015-05

v. Date: 1/16/2006

31

SEMI-VOLATILE by GCMS ANALYSIS LOG

Batch ID: E6P276

Date: 9/26/14

Analyst Signature: AMD

[illegible]

Standard Data		
Lot #	Description	Conc.
	see page 631	
	AM041760	

Columns: RTx5ms30m x 25mm x 25µm

Method 8270/625

Initial Cal. Method 116P274

Injection Volume: 1.5

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature:

Date: 4-28-14

[illegible]

TX = Matrix. Designate W for water, S for soil, O for oil. L+=Library Search. IS = Internal Standard Area. SU = Surrogate.

sample volume/weight used and final volumes refer to extraction log.

II strikeouts must be initialed, dated and reason code applied as follows:

= reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR015-05

Ex. Date: 1/16/2006

33

SEMI-VOLATILE by GCMS ANALYSIS LOG

Batch ID: E6P277

Date: 9/27/14

Analyst Signature: AMD

[illegible]

Lot #	Description	Conc.
SN312824B	DETPP	50ppm
CR2933	Internal Std	4000ppm
DL237	OCM(HW)	

Columns: RTX5MS30m x.25mm x.25mm

Method 8270/625 ✓

Initial Cal. Method M6P277

Injection Volume: 1ml

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044. Injection Volume: 100 µL

Supervisor Signature:

Date: 4-28-14

[illegible]

IX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

sample volume/weight used and final volumes refer to extraction log.

1 strikeouts must be initialed, dated and reason code applied as follows:
 = reviewer correction error; 2 = transcription error

1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Ref: OR015-05

7. Date: 1/16/2006

35

SEMI-VOLATILE by GCMS ANALYSIS LOG

Batch ID: ELP 278

Date: 4/28/14

Analyst Signature: *ECP*

Standard Data

[illegible]

Standard Data

Lot #	Description	Conc.
SYB1282143	BFTP	50ppm
NK237	LCM	
CK2933	IS	4000ppm

Columns: RTK 6msi 30m x .25mm x 25um

Method 8270/625

Initial Cal. Method in 6P277

Injection Volume: 1.2

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature:

Date: 4-28-14

[illegible]

TX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

sample volume/weight used and final volumes refer to extraction log.

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11 strikeouts must be initialed, dated and reason code applied as follows:

= reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

REF: OR015-05

iv. Date: 1/16/2006

Date: 5-29-14

Analyst Signature: AS

Standard Data		
Lot #	Description	Conc.

Standard Data		
Lot #	Description	Conc.
SV413621A	TSF PP	50
SV413621A	BNA	↓
8D	TCU2	
DK233	IS	4000 ppb
DK233	DC	bw

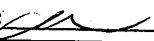
Columns: R2-Sm30m, 25µm, 25m

Method 82701625

Initial Cal. Method 44P277

Injection Volume: 1µl

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: 

Date: 5-31-14

Data File	Sample ID	Ext. Batch	Test	M T X	ALS #	Dilutio n.	L +	I S	S U	Status (Data)	Comments
6P 7510	DFTP				1					ng	tailing feirpx
7511	DFTP				1					d	9.55ppb
7512	CC277-50		BNA		2					d	
7513	CC276-50				3					d	Benzaldehyde
7514	B02ver				4					d	SL4B6749
7515	Benzidine				5					d	SV41362134B
7516	75185-mbl	75185	ABD ¹		6		X	/	/	d	
7517	-BS1				7		/	/	/	d	
7518	JB67666-1		ABTCL20		8		/	/	/	d	
7519	67901-1 JB7901-1		PAH2mp		9		/	/	/	OK	
9520	JB67900-1A		ABPTCL-DCB		10		/	/	/	OK	
921	2A		1B2ALC		11		/	/	/	OK	Rep low sum.
922	-3A				12		/	/	/	OK	
923	JB67898-1		ABTCL20		13		X	/	/	OK	
924	-2				14		X	/	/	OK	
925	JB67915-1		ABTCL20		15		/	/	/	OK	RR 1:10
926	-2				16		/	/	/	OK	

TX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

sample volume/weight used and final volumes refer to extraction log.

If strikeouts must be initialed, dated and reason code applied as follows:

= reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

rm: OR015-05

ev. Date: 1/16/2006

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5-29-14

Analyst Signature: AS

Standard Data		
Lot #	Description	Conc.

Standard Data		
Lot #	Description	Cone.
	Serg 85	
	[Signature]	
	[Signature]	

Columns: RTx5m 530up 25up 5m

Method 8270/625

Initial Cal. Method 1468 277

Injection Volume: 1ml

ually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [Signature]

Date: 5-31-49

Data File	Sample ID	Ext. Batch	Test	M T X	ALS #	Dilutio n.	L +	I S	S U	Status (Data)	Comments
7527	JB 67915 -3	75185	ASTCL2D	S	17		/	/	/	OK	
7528	-4				18		/	/	/	OK	
7529	-5				19		/	/	/	OK	RR 1:10
7530	-6				20		/	/	/	OK	
7531	JB 67897-1		PAH		21		/	/	/	OK	
7532	-3				22		/	/	/	OK	
7533	-4		ASTCL2D		23		/	/	/	OK	
7534	-5				24		/	/	/	OK	
7535	-2A		ASTCL2D		25		/	/	/	OK	
7536	6A				26		/	/	/	OK	
7537	Op 75185-ms		ABW		27		/	/	/	OK	952 pm
7538	-msd				28		/	/	/	not using OK ASS-31-14	1021 out of clock

Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

~~sample volume/weight used and final volumes refer to extraction log.~~

187

Strikeouts must be initialed, dated and reason code applied as follows:

reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

15 OR015-05

Date: 1/16/2006



ACCUTEST

SEMI-VOLATILE by GCMS ANALYSIS LOG

Batch ID: E6P323

Date: 6/2/14

Analyst Signature: AP

Standard Data		
Lot #	Description	Conc.

Standard Data		
Lot #	Description	Conc.
SV14136214	DFTPP	50ppm
SV1413622	BNA	50 ppm
800	TCL42	50 ↓
OK2933	I.S.	4000 ppm
DCS47	DCM/HW	

Columns: RIX5MSi30mx25mmx2mm

Method 8270/625

Initial Cal. Method M6P277

Injection Volume: 1.0mL

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: OA

Date: 6-3-14

R	Data File	Sample ID	Ext. Batch	Test	M T X	ALS #	Dilution n.	L +	I S	S U	Status (Data)	Comments
	607627	DFTPP				1					failed	51 ↓ 442 ↑ increased emission
	628	DFTPP				1					failed	tailings RPP re-inject
	609	DFTPP				1					OK	
	630	CC277-50		BNA		2					OK	33 ↑ 99 ↑
	631	CC276-50		TCL42		3					OK	benzaldehyde ↓ AREA ↑ IS OK w/dilution p AR 6/3/14 per CH
	632	TCL42 verif.				4					OK	SV141362-50H 1ppm
	633	667751-6	75136	PAH	S	5	10				RR	dil. not spiked with IS
	634	667915-1	75185	ABTCL20	S	6	10				OK	
	635	-5				7	10				OK	
	636	667728-10	75136	ABTCL20+	S	8	2				OK	
	637	667956-6	75277	ABNJCL11+	W	9	10				OK	
	638	667959-1		ABNJCL11+		10	10				not using	not needed
	639	-3				11	10				↓	↓
	640	-9				12	10				↓	↓
	641	-10				13	10				↓	↓
	642	667923-4	75123-3	TCLP	W	14	10				OK	
	643	-7				15	10				OK	

ITX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

Sample volume/weight used and final volumes refer to extraction log.

All strikeouts must be initialed, dated and reason code applied as follows:

1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR015-05

Rev. Date: 1/16/2006



LOG
Batch ID: E6P323

Analyst Signature: AR

Standard Data

Lot #	Description	Conc.

Lot #	Description	Conc.
	see Pg. 5	

Columns: Rtx5MSi 30m x 25mm x 2Gum

Method 8270/625

Initial Cal. Method m_{6p} 277

Injection Volume: 1.0 ml

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: CA

Date: 6-3-14

[illegible]

[TX = Matrix . Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.

Sample volume/weight used and final volumes refer to extraction log.

All strikeouts must be initialed, dated and reason code applied as follows:

1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR015-05

ev. Date: 1/16/2006

Accutest Laboratories

EXT-SO

ABN Extraction Log - Solids

BATCH # MS 75185 RACK# XO

Date started: 5/29/14 Time started: 7AM
Date finished: 5/29/14 Time finished: 5PM

EXTRACTION METHOD: (Check one) Microwave SW3546 Waste Dil. SW3580A

Sonication SW3550C Soxhlet SW3540C

Sample #	Analysis Type	Sample Bottle #	Sample Description	Sample Wet Wt. (g)	Microwave ID	Decant	Final Extract	Comments
						Y	N	
								Color
								Vol(ml)
JB67915-1	MS	1	MS	35.0				yellow
JB67915-1	MSD	1	MSD	30.4				Brown
JB67915-1	MSD	1	MSD	30.4				Brown
JB67915-1	MSD	1	MSD	35.0				clear
JB67666-1	EX	1	soil	11.2				Brown
JB67901-1		2	soil	31.2				clear
JB67900-1A		1	soil	31.7		X		clear
JB67900-1A		1	soil	31.2		X		Brown
JB67900-1A		1	soil	31.7		X		clear
JB67998-1		1	soil	30.4				Brown
JB67998-1		1	soil	31.2				yellow
JB67915-1		1	soil	31.2				Brown
JB67915-1		1	soil	30.6				clear
JB67915-1		1	soil	30.2				black
JB67915-1		1	soil	31.4				clear
JB67915-1		1	soil	32.0				black
JB67915-1		1	soil	30.9				clear
JB67915-1		1	soil	33.2				Brown
JB67915-1		1	soil	30.8				yellow
JB67915-1		1	soil	30.1				Brown
JB67915-1		1	soil	31.0				yellow
JB67915-1		1	soil	30.1				Brown
JB67915-1		2	soil	32.3				Brown

93

9 9.8.1

Comments:
Form: OP75185-01
Rev. Date: 04/09/13

EXT-AQ

Date Started: 5/29/14
Date Finished: 5/29/14

Acid Base/Neutrals Extraction Log - Liquid

EXTRACT METHOD (check one): Sep Funnel SW 3510C / EPA 625

Cont Liq-Liq SW3520C

BATCH # 1575202
RACK# 277

Ext By: NP
Conc by: EE
Viald by: NP

Relinquished by:
Accepted by:

Supervisor review: 5/29/14

MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB	BS	MS	MSD	BS 12	sim	MB

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Instrument Runlogs
- Initial and Continuing Calibration Blanks
- Initial and Continuing Calibration Checks
- High and Low Check Standards
- Interfering Element Check Standards
- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries
- IDL and Linear Range Summaries

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB67898

Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SB053014M1.ICP Date Analyzed: 05/30/14 Methods: EPA 200.7, SW846 6010C
Analyst: RR Run ID: MA34133
Parameters: Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Ni, K, Se, Ag, Na, Tl, V, Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
10:21	MA34133-STD1	1		STDA
10:28	MA34133-STD2	1		STDB
10:34	ZZZZZZ	1		
10:40	ZZZZZZ	1		
10:47	MA34133-ICV1	1		
11:03	MA34133-ICB1	1		
11:08	MA34133-ICCV1	1		
11:24	MA34133-CCB1	1		
11:32	MA34133-CRI1	1		
11:38	MA34133-CRID1	1		
11:45	MA34133-CRIA1	1		
11:51	MA34133-ICSA1	1		
11:57	MA34133-ICSAB1	1		
12:04	MA34133-ICSA2	1		
12:10	MA34133-ICSAB2	1		
12:16	ZZZZZZ	1		
12:23	ZZZZZZ	1		
12:29	MA34133-CCV1	1		
12:35	MA34133-CCB2	1		
12:43	MA34133-CRID2	1		
12:49	MP79610A-MB1	1		
12:55	MP79610A-B1	1		
13:01	MP79610A-S1	1		
13:07	MP79610A-S2	1		Fe high
13:14	JB66645-3R	1		(sample used for QC only; not part of login JB67898)
13:20	MP79610A-SD1	5		
13:26	ZZZZZZ	1		
13:32	ZZZZZZ	1		
13:38	MA34133-CCV2	1		
13:44	MA34133-CCB3	1		
13:51	ZZZZZZ	1		
13:57	ZZZZZZ	1		
14:03	MP79724-MB1	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB67898

Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SB053014M1.ICP Date Analyzed: 05/30/14 Methods: EPA 200.7, SW846 6010C
Analyst: RR Run ID: MA34133
Parameters: Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Ni, K, Se, Ag, Na, Tl, V, Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
14:09	ZZZZZZ	1		
14:25	ZZZZZZ	1		
14:31	ZZZZZZ	1		
14:40	ZZZZZZ	1		
14:46	ZZZZZZ	1		
14:52	ZZZZZZ	1		
14:58	MA34133-CCV3	1		
15:04	MA34133-CCB4	1		
15:12	ZZZZZZ	1		
15:18	ZZZZZZ	1		
15:24	MP79751-MB1	1		
15:30	MP79751-B1	1		
15:36	MP79751-LC1	1		
15:42	ZZZZZZ	1		
15:49	ZZZZZZ	1		
15:55	ZZZZZZ	1		
16:01	ZZZZZZ	1		
16:07	MA34133-CCV4	1		
16:13	MA34133-CCB5	1		
16:20	ZZZZZZ	2		
16:26	ZZZZZZ	2		
16:32	ZZZZZZ	1		
16:38	ZZZZZZ	2		
16:45	ZZZZZZ	5		
16:51	ZZZZZZ	10		
16:57	ZZZZZZ	3		
17:03	ZZZZZZ	10		
17:09	ZZZZZZ	10		
17:16	MA34133-CCV5	1		
17:22	MA34133-CCB6	1		
17:28	ZZZZZZ	2		
17:34	ZZZZZZ	2		
17:41	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB67898

Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SB053014M1.ICP Date Analyzed: 05/30/14 Methods: EPA 200.7, SW846 6010C
Analyst: RR Run ID: MA34133
Parameters: Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Ni, K, Se, Ag, Na, Tl, V, Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
17:47	ZZZZZZ	1		
17:53	ZZZZZZ	1		
17:59	ZZZZZZ	1		
18:06	ZZZZZZ	1		
18:12	ZZZZZZ	1		
18:18	MP79752-MB1	1		
18:24	MA34133-CCV6	1		
18:30	MA34133-CCB7	1		
18:37	MP79752-B1	1		
18:43	MP79752-LC1	1		
18:49	ZZZZZZ	1		
18:55	JB67702-1A	1		(sample used for QC only; not part of login JB67898)
19:01	MP79751-S1	1		
19:07	MP79751-S2	1		
19:13	JB66447-2R	1		(sample used for QC only; not part of login JB67898)
19:20	MP79751-SD1	5		
19:26	MP79771-MB1	1		
19:32	MA34133-CCV7	1		
19:38	MA34133-CCB8	1		
19:44	MA34133-CRI2	1		
19:51	MA34133-CRID3	1		
19:57	MA34133-CRIA2	1		
20:03	MA34133-ICSA3	1		
20:10	MA34133-ICSAB3	1		
20:16	ZZZZZZ	1		
20:22	ZZZZZZ	1		
20:29	ZZZZZZ	1		
20:36	ZZZZZZ	1		
20:43	MA34133-CCV8	1		
20:49	MA34133-CCB9	1		
20:55	MP79771-B1	1		
21:01	MP79771-S1	1		Mn high
21:07	MP79771-S2	1		Mn high

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB67898

Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SB053014M1.ICP Date Analyzed: 05/30/14 Methods: EPA 200.7, SW846 6010C
Analyst: RR Run ID: MA34133
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
21:13	JB67728-9A	1		(sample used for QC only; not part of login JB67898)
21:19	MP79771-SD1	5		
21:26	ZZZZZZ	1		
21:32	ZZZZZZ	1		
21:38	ZZZZZZ	1		
21:44	ZZZZZZ	1		
21:50	MA34133-CCV9	1		
21:56	MA34133-CCB10	1		
22:03	ZZZZZZ	1		
22:09	ZZZZZZ	1		
22:15	ZZZZZZ	1		
22:21	ZZZZZZ	1		
22:27	ZZZZZZ	1		
22:33	ZZZZZZ	1		
22:40	ZZZZZZ	1		
22:46	ZZZZZZ	1		
22:52	ZZZZZZ	1		
22:58	MA34133-CCV10	1		
23:04	MA34133-CCB11	1		
23:10	ZZZZZZ	1		
23:17	ZZZZZZ	1		
23:23	ZZZZZZ	1		
23:29	ZZZZZZ	1		
23:35	ZZZZZZ	1		
23:41	ZZZZZZ	1		
23:48	ZZZZZZ	1		
23:54	ZZZZZZ	1		
00:00	ZZZZZZ	1		
00:06	ZZZZZZ	1		
00:12	MA34133-CCV11	1		
00:18	MA34133-CCB12	1		
00:25	ZZZZZZ	1		
00:31	MP79752-S1	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB67898

Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SB053014M1.ICP Date Analyzed: 05/30/14 Methods: EPA 200.7, SW846 6010C
Analyst: RR Run ID: MA34133
Parameters: Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Ni, K, Se, Ag, Na, Tl, V, Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
00:37	MP79752-S2	1		
00:43	MP79752-SD1	5		
00:49	ZZZZZZ	1		
00:55	ZZZZZZ	1		
01:02	ZZZZZZ	1		
01:08	ZZZZZZ	1		
01:14	ZZZZZZ	1		
01:20	ZZZZZZ	1		
01:26	MA34133-CCV12	1		
01:32	MA34133-CCB13	1		
01:38	ZZZZZZ	1		
01:45	ZZZZZZ	1		
01:51	ZZZZZZ	1		
01:57	ZZZZZZ	1		
02:03	ZZZZZZ	1		
02:09	ZZZZZZ	1		
02:15	ZZZZZZ	1		
02:22	ZZZZZZ	1		
02:28	ZZZZZZ	1		
02:34	JB67898-1	1		
02:40	MA34133-CCV13	1		
02:46	MA34133-CCB14	1		
02:53	JB67898-2	1		
02:59	ZZZZZZ	1		
03:05	ZZZZZZ	2		
03:11	ZZZZZZ	2		
03:18	ZZZZZZ	1		
03:24	ZZZZZZ	1		
03:30	ZZZZZZ	1		
03:36	ZZZZZZ	1		
03:42	ZZZZZZ	1		
03:48	ZZZZZZ	1		
03:55	MA34133-CCV14	1		

-----> Last reportable sample/prep for job JB67898

10.1
10

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB67898

Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SB053014M1.ICP Date Analyzed: 05/30/14 Methods: EPA 200.7, SW846 6010C
Analyst: RR Run ID: MA34133
Parameters: Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Ni, K, Se, Ag, Na, Tl, V, Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
04:01	MA34133-CCB15	1		
04:07	MA34133-CRI3	1		
04:13	MA34133-CRID4	1		
04:19	MA34133-CRIA3	1		
04:26	ZZZZZZ	1		
04:32	ZZZZZZ	1		
04:38	ZZZZZZ	1		
04:45	ZZZZZZ	1		
04:51	MA34133-CCV15	1		
04:57	MA34133-CCB16	1		
05:04	ZZZZZZ	1		
05:10	ZZZZZZ	1		
05:16	ZZZZZZ	1		
05:22	ZZZZZZ	1		
05:28	ZZZZZZ	1		
05:34	ZZZZZZ	1		
05:41	ZZZZZZ	1		
05:47	ZZZZZZ	1		
05:53	ZZZZZZ	1		
05:59	ZZZZZZ	1		
06:05	MA34133-CCV16	1		
06:11	MA34133-CCB17	1		
06:18	MA34133-CRI4	1		
06:24	MA34133-CRID5	1		
06:30	MA34133-CRIA4	1		
06:37	MA34133-CCV17	1		
06:43	MA34133-CCB18	1		

Refer to raw data for calibration curve and standards.

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INTERNAL STANDARD SUMMARY

Login Number: JB67898

Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NYFile ID: SB053014M1.ICP Date Analyzed: 05/30/14 Methods: EPA 200.7, SW846 6010C
Analyst: RR Run ID: MA34133
Parameters: Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Ni, K, Se, Ag, Na, Tl, V, Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
10:21	MA34133-STD1	1655 R	92964 R	13741 R	5697 R
10:28	MA34133-STD2	1514	86593	13516	4931
10:34	ZZZZZZ	1605	86229	13333	5195
10:40	ZZZZZZ	1663	93002	13484	5700
10:47	MA34133-ICV1	1615	89508	13471	5268
11:03	MA34133-ICB1	1691	95555	13670	5787
11:08	MA34133-ICCV1	1585	89029	13470	5180
11:24	MA34133-CCB1	1700	94828	13668	5815
11:32	MA34133-CRI1	1676	92229	13411	5652
11:38	MA34133-CRID1	1691	94338	13554	5762
11:45	MA34133-CRIA1	1699	94966	13666	5777
11:51	MA34133-ICSA1	No results reported for the elements associated with this internal standard.			
11:57	MA34133-ICSAB1	No results reported for the elements associated with this internal standard.			
12:04	MA34133-ICSA2	1493	81947	12884	4710
12:10	MA34133-ICSAB2	1511	82277	12990	4760
12:16	ZZZZZZ	1669	92710	13547	5803
12:23	ZZZZZZ	1664	94286	13640	5765
12:29	MA34133-CCV1	1626	90824	13526	5305
12:35	MA34133-CCB2	1699	94088	13542	5769
12:43	MA34133-CRID2	1699	94150	13553	5769
12:49	MP79610A-MB1	1684	93069	13625	5744
12:55	MP79610A-B1	1649	91795	13660	5505
13:01	MP79610A-S1	1666	92070	13828	5489
13:07	MP79610A-S2	1629	90383	13660	5792
13:14	JB66645-3R	1683	93782	14028	5565
13:20	MP79610A-SD1	1715	95553	13897	5746
13:26	ZZZZZZ	1671	92044	13824	5574
13:32	ZZZZZZ	1671	92033	14039	5467
13:38	MA34133-CCV2	1625	90409	13629	5282
13:44	MA34133-CCB3	1676	91346	13275	5672
13:51	ZZZZZZ	1693	93209	14099	5514
13:57	ZZZZZZ	1600	89944	13605	5706
14:03	MP79724-MB1	1673	94321	13579	5752

INTERNAL STANDARD SUMMARY

Login Number: JB67898

Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SB053014M1.ICP

Date Analyzed: 05/30/14

Methods: EPA 200.7, SW846 6010C

Analyst: RR

Run ID: MA34133

Parameters: Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Ni, K, Se, Ag, Na, Tl, V, Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
14:09	ZZZZZZ	1721	95819	14201	5608
14:25	ZZZZZZ	1673	93973	13565	5747
14:31	ZZZZZZ	1405	77645	12698	4291
14:40	ZZZZZZ	1570	89798	13643	5841
14:46	ZZZZZZ	1711	93945	14235	5538
14:52	ZZZZZZ	1654	89941	13697	5482
14:58	MA34133-CCV3	1636	89880	13426	5295
15:04	MA34133-CCB4	1699	95051	13488	5786
15:12	ZZZZZZ	1628	90266	13595	5351
15:18	ZZZZZZ	1702	94843	13748	5720
15:24	MP79751-MB1	1668	93335	13462	5716
15:30	MP79751-B1	1659	91907	13539	5520
15:36	MP79751-LC1	1692	92933	13769	5460
15:42	ZZZZZZ	1705	93709	13683	5645
15:49	ZZZZZZ	1646	93107	13766	5335
15:55	ZZZZZZ	1684	93405	13745	5353
16:01	ZZZZZZ	1648	91174	13660	5288
16:07	MA34133-CCV4	1648	90445	13285	5350
16:13	MA34133-CCB5	1703	93589	13369	5802
16:20	ZZZZZZ	1651	93165	13581	5707
16:26	ZZZZZZ	1645	92965	13652	5783
16:32	ZZZZZZ	1283	80022	12469	5328
16:38	ZZZZZZ	1452	85317	12817	5357
16:45	ZZZZZZ	1576	88973	13079	5442
16:51	ZZZZZZ	1490	90153	13213	5157
16:57	ZZZZZZ	1349	85204	13098	4854
17:03	ZZZZZZ	1565	88808	13155	5231
17:09	ZZZZZZ	1469	87109	13041	5092
17:16	MA34133-CCV5	1644	90190	13183	5323
17:22	MA34133-CCB6	1689	94441	13230	5751
17:28	ZZZZZZ	1659	92301	13581	5591
17:34	ZZZZZZ	1667	93143	13545	5730
17:41	ZZZZZZ	541 !a	73179	11775	4378

INTERNAL STANDARD SUMMARY

Login Number: JB67898

Account: LANGAN - Langan Engineering & Environmental
 Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SB053014M1.ICP Date Analyzed: 05/30/14 Methods: EPA 200.7, SW846 6010C
 Analyst: RR Run ID: MA34133
 Parameters: Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Ni, K, Se, Ag, Na, Tl, V, Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
17:47	ZZZZZZ	1656	91487	13521	5504
17:53	ZZZZZZ	1642	91134	13339	5530
17:59	ZZZZZZ	1678	95074	13539	5755
18:06	ZZZZZZ	1614	89521	13245	5615
18:12	ZZZZZZ	1718	93861	13776	5526
18:18	MP79752-MB1	1700	95596	13455	5805
18:24	MA34133-CCV6	1642	90547	13180	5318
18:30	MA34133-CCB7	1685	94007	13227	5731
18:37	MP79752-B1	1650	91590	13196	5474
18:43	MP79752-LC1	1671	92063	13335	5396
18:49	ZZZZZZ	1626	89501	13028	5799
18:55	JB67702-1A	1709	93522	13564	5476
19:01	MP79751-S1	1548	86584	12882	4871
19:07	MP79751-S2	1587	86480	12968	4971
19:13	JB66447-2R	1576	86160	12858	4871
19:20	MP79751-SD1	1661	91825	13080	5403
19:26	MP79771-MB1	1695	94662	13221	5773
19:32	MA34133-CCV7	1631	89425	12927	5269
19:38	MA34133-CCB8	1675	92475	12803	5683
19:44	MA34133-CRI2	1683	93542	12944	5683
19:51	MA34133-CRID3	1679	93745	12920	5708
19:57	MA34133-CRIA2	1696	94820	13063	5742
20:03	MA34133-ICSA3	1497	82726	12409	4718
20:10	MA34133-ICSAB3	1507	81726	12323	4727
20:16	ZZZZZZ	1692	94280	12959	5733
20:22	ZZZZZZ	1708	94666	13087	5769
20:29	ZZZZZZ	1698	93714	13026	5744
20:36	ZZZZZZ	1713	94958	13106	5783
20:43	MA34133-CCV8	1640	89670	12832	5293
20:49	MA34133-CCB9	1698	94153	12961	5746
20:55	MP79771-B1	1683	92655	13230	5571
21:01	MP79771-S1	1704	93668	13637	5377
21:07	MP79771-S2	1710	94142	13673	5433

INTERNAL STANDARD SUMMARY

Login Number: JB67898

Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NYFile ID: SB053014M1.ICP Date Analyzed: 05/30/14 Methods: EPA 200.7, SW846 6010C
Analyst: RR Run ID: MA34133
Parameters: Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Ni, K, Se, Ag, Na, Tl, V, Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
21:13	JB67728-9A	1734	95523	13744	5519
21:19	MP79771-SD1	1716	94348	13308	5688
21:26	ZZZZZZ	1739	97367	13963	5482
21:32	ZZZZZZ	1773	98133	14209	5563
21:38	ZZZZZZ	1748	96773	14095	5511
21:44	ZZZZZZ	1726	95437	13745	5468
21:50	MA34133-CCV9	1644	91042	13054	5326
21:56	MA34133-CCB10	1712	95221	13289	5799
22:03	ZZZZZZ	1741	96333	14022	5469
22:09	ZZZZZZ	1665	92187	13387	5407
22:15	ZZZZZZ	1672	92422	13710	5267
22:21	ZZZZZZ	1717	94748	13757	5568
22:27	ZZZZZZ	1694	93892	13699	5617
22:33	ZZZZZZ	1732	99932	14213	5519
22:40	ZZZZZZ	1695	98122	13734	5586
22:46	ZZZZZZ	1714	97353	13960	5610
22:52	ZZZZZZ	1716	96582	14025	5603
22:58	MA34133-CCV10	1607	91665	13372	5258
23:04	MA34133-CCB11	1654	95048	13376	5685
23:10	ZZZZZZ	1774	102170	15492	5307
23:17	ZZZZZZ	1679	95634	14184	5411
23:23	ZZZZZZ	1724	97893	14855	5340
23:29	ZZZZZZ	1486	85274	13764	4471
23:35	ZZZZZZ	1623	91397	13822	5283
23:41	ZZZZZZ	1659	94030	14232	5359
23:48	ZZZZZZ	1642	93672	14027	5432
23:54	ZZZZZZ	1629	92399	13741	5449
00:00	ZZZZZZ	1659	94453	14297	5334
00:06	ZZZZZZ	1620	92300	14039	5351
00:12	MA34133-CCV11	1569	88359	13311	5166
00:18	MA34133-CCB12	1622	94570	13604	5607
00:25	ZZZZZZ	1645	92417	13849	5389
00:31	MP79752-S1	1582	89292	13494	5170

INTERNAL STANDARD SUMMARY

Login Number: JB67898

Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SB053014M1.ICP

Date Analyzed: 05/30/14

Methods: EPA 200.7, SW846 6010C

Analyst: RR

Run ID: MA34133

Parameters: Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Ni, K, Se, Ag, Na, Tl, V, Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
00:37	MP79752-S2	1622	90920	13864	5259
00:43	MP79752-SD1	1637	92829	13593	5516
00:49	ZZZZZZ	1708	95605	14489	5298
00:55	ZZZZZZ	1670	94513	14306	5341
01:02	ZZZZZZ	1709	95490	14528	5277
01:08	ZZZZZZ	1577	88379	13834	4867
01:14	ZZZZZZ	1616	89980	13689	5309
01:20	ZZZZZZ	1663	93623	14090	5291
01:26	MA34133-CCV12	1557	88406	13046	5148
01:32	MA34133-CCB13	1626	94083	13423	5605
01:38	ZZZZZZ	1673	96583	14547	5230
01:45	ZZZZZZ	1670	95054	14197	5331
01:51	ZZZZZZ	1589	90030	13600	5095
01:57	ZZZZZZ	1669	94303	14069	5203
02:03	ZZZZZZ	1694	95568	14356	5292
02:09	ZZZZZZ	1647	94097	13940	5284
02:15	ZZZZZZ	1518	90243	13414	4841
02:22	ZZZZZZ	1534	87271	13201	4864
02:28	ZZZZZZ	1551	88090	13347	4851
02:34	JB67898-1	1592	90086	13450	5171
02:40	MA34133-CCV13	1562	88751	12990	5150
02:46	MA34133-CCB14	1648	94736	13400	5664
02:53	JB67898-2	1628	91632	13507	5460
02:59	ZZZZZZ	1650	94257	13411	5710
03:05	ZZZZZZ	1492	85211	12971	4823
03:11	ZZZZZZ	1576	91160	13355	5382
03:18	ZZZZZZ	1651	92425	13556	5385
03:24	ZZZZZZ	1657	92153	13690	5389
03:30	ZZZZZZ	1655	92658	13448	5656
03:36	ZZZZZZ	1700	95666	14059	5374
03:42	ZZZZZZ	1664	93054	13685	5356
03:48	ZZZZZZ	1761	98008	14435	5401
03:55	MA34133-CCV14	1618	90511	13084	5292

INTERNAL STANDARD SUMMARY

Login Number: JB67898

Account: LANGAN - Langan Engineering & Environmental
 Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SB053014M1.ICP Date Analyzed: 05/30/14 Methods: EPA 200.7, SW846 6010C
 Analyst: RR Run ID: MA34133
 Parameters: Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Ni, K, Se, Ag, Na, Tl, V, Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
04:01	MA34133-CCB15	1674	94283	13143	5733
04:07	MA34133-CRI3	1674	93507	13023	5671
04:13	MA34133-CRID4	1684	93780	12931	5738
04:19	MA34133-CRIA3	1689	93030	12850	5770
04:26	ZZZZZZ	1660	94869	12937	5703
04:32	ZZZZZZ	1695	95718	13310	5791
04:38	ZZZZZZ	1664	93899	12925	5717
04:45	ZZZZZZ	1705	95343	13065	5845
04:51	MA34133-CCV15	1638	90378	13079	5327
04:57	MA34133-CCB16	1676	94938	12975	5749
05:04	ZZZZZZ	1674	93494	13479	5472
05:10	ZZZZZZ	1700	96399	13781	5556
05:16	ZZZZZZ	1737	95806	14008	5497
05:22	ZZZZZZ	1574	87301	13074	4824
05:28	ZZZZZZ	1834	100870	14684	5468
05:34	ZZZZZZ	1768	98827	14169	5507
05:41	ZZZZZZ	1682	94591	13498	5459
05:47	ZZZZZZ	1682	94375	13276	5693
05:53	ZZZZZZ	1698	95947	13566	5631
05:59	ZZZZZZ	1701	93783	13489	5628
06:05	MA34133-CCV16	1636	90210	13025	5335
06:11	MA34133-CCB17	1682	94429	13005	5751
06:18	MA34133-CRI4	1663	95401	13015	5629
06:24	MA34133-CRID5	1692	94620	13195	5760
06:30	MA34133-CRIA4	1704	95954	13006	5832
06:37	MA34133-CCV17	1631	92095	13054	5355
06:43	MA34133-CCB18	1670	95543	13008	5742

R = Reference for ISTD limits. ! = Outside limits.

LEGEND:

Istd#	Parameter	Limits
Istd#1	Yttrium (2243)	70-130 %
Istd#2	Yttrium (3600)	70-130 %
Istd#3	Yttrium (3710)	70-130 %
Istd#4	Indium	70-130 %

(a) No samples reported for the elements associated with this internal standard.

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB67898
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SB053014M1.ICP Date Analyzed: 05/30/14 Methods: EPA 200.7, SW846 6010C
QC Limits: result < RL Run ID: MA34133 Units: ug/l

Time: Sample ID:	RL	IDL	11:03 ICB1 raw	final	11:24 CCB1 raw	final	12:35 CCB2 raw	final	13:44 CCB3 raw	final
Metal										
Aluminum	200	5.9	7.9	<200	6.7	<200	6.9	<200	12.9	<200
Antimony	6.0	.8	1.1	<6.0	0.90	<6.0	1.3	<6.0	0.50	<6.0
Arsenic	3.0	.8	1.5	<3.0	0.50	<3.0	0.40	<3.0	0.60	<3.0
Barium	200	.3	0.20	<200	0.40	<200	0.30	<200	0.50	<200
Beryllium	1.0	.09	0.0	<1.0	0.10	<1.0	0.10	<1.0	0.10	<1.0
Bismuth	20	1.4								
Boron	100	.7								
Cadmium	3.0	.2	0.20	<3.0	0.30	<3.0	0.20	<3.0	0.30	<3.0
Calcium	5000	8.7	-7.6	<5000	-5.1	<5000	-10	<5000	-9.9	<5000
Chromium	10	.3	-0.50	<10	0.0	<10	-0.20	<10	0.0	<10
Cobalt	50	.3	-0.10	<50	0.20	<50	0.10	<50	0.0	<50
Copper	10	2.2	-0.50	<10	-0.40	<10	-0.70	<10	-0.80	<10
Iron	100	5.5	0.20	<100	4.7	<100	1.9	<100	3.7	<100
Lead	3.0	.9	0.20	<3.0	0.30	<3.0	-0.10	<3.0	-0.90	<3.0
Lithium	20	1								
Magnesium	5000	19	1.2	<5000	21.2	<5000	17.4	<5000	8.3	<5000
Manganese	15	.2	0.0	<15	0.20	<15	0.0	<15	0.10	<15
Molybdenum	20	.4	anr							
Nickel	10	.4	-0.20	<10	-0.20	<10	0.0	<10	-0.30	<10
Palladium	50	1.7								
Potassium	10000	37	4.0	<10000	14.9	<10000	25.2	<10000	7.1	<10000
Selenium	10	1.7	-0.20	<10	0.40	<10	-0.30	<10	0.10	<10
Silicon	200	5.4								
Silver	10	.3	-0.30	<10	-0.20	<10	0.0	<10	-0.10	<10
Sodium	10000	6.1	-7.5	<10000	5.4	<10000	-1.8	<10000	1.2	<10000
Sulfur	50	4.3								
Strontium	10	.1								
Thallium	2.0	1.3	0.60	<2.0	0.30	<2.0	-0.10	<2.0	0.40	<2.0
Tin	10	.6								
Titanium	10	.3								
Tungsten	50	5.8								
Vanadium	50	.3	0.10	<50	0.40	<50	0.20	<50	0.30	<50
Zinc	20	.4	-1.2	<20	-1.0	<20	-1.2	<20	-1.2	<20

10.1.2 10

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB67898
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SB053014M1.ICP Date Analyzed: 05/30/14 Methods: EPA 200.7, SW846 6010C
QC Limits: result < RL Run ID: MA34133 Units: ug/l

Time: Sample ID:			11:03 ICB1		11:24 CCB1		12:35 CCB2		13:44 CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final

Zirconium 10 .3

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB67898
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SB053014M1.ICP
QC Limits: result < RL

Date Analyzed: 05/30/14
Run ID: MA34133

Methods: EPA 200.7, SW846 6010C
Units: ug/l

Time: Sample ID:	RL	IDL	15:04 CCB4 raw	final	16:13 CCB5 raw	final	17:22 CCB6 raw	final	18:30 CCB7 raw	final
Metal										
Aluminum	200	5.9	9.3	<200	14.5	<200	7.5	<200	6.6	<200
Antimony	6.0	.8	1.7	<6.0	1.3	<6.0	1.6	<6.0	1.3	<6.0
Arsenic	3.0	.8	1.0	<3.0	0.40	<3.0	-0.30	<3.0	-0.60	<3.0
Barium	200	.3	0.50	<200	0.60	<200	0.20	<200	0.50	<200
Beryllium	1.0	.09	0.20	<1.0	0.30	<1.0	0.0	<1.0	0.20	<1.0
Bismuth	20	1.4								
Boron	100	.7								
Cadmium	3.0	.2	0.20	<3.0	0.30	<3.0	0.30	<3.0	0.30	<3.0
Calcium	5000	8.7	-6.9	<5000	-5.8	<5000	-13	<5000	-12	<5000
Chromium	10	.3	0.10	<10	0.0	<10	-0.40	<10	-0.30	<10
Cobalt	50	.3	0.40	<50	0.50	<50	0.0	<50	0.0	<50
Copper	10	2.2	-0.70	<10	-0.50	<10	-1.0	<10	-0.80	<10
Iron	100	5.5	9.0	<100	9.9	<100	2.9	<100	6.1	<100
Lead	3.0	.9	1.0	<3.0	1.4	<3.0	0.10	<3.0	0.80	<3.0
Lithium	20	1								
Magnesium	5000	19	4.8	<5000	24.4	<5000	10.8	<5000	12.9	<5000
Manganese	15	.2	0.20	<15	0.20	<15	0.0	<15	0.20	<15
Molybdenum	20	.4	anr							
Nickel	10	.4	-0.20	<10	0.30	<10	-0.20	<10	-0.20	<10
Palladium	50	1.7								
Potassium	10000	37	40.1	<10000	42.3	<10000	13.4	<10000	9.3	<10000
Selenium	10	1.7	0.20	<10	0.30	<10	-1.5	<10	0.80	<10
Silicon	200	5.4								
Silver	10	.3	-0.40	<10	-0.20	<10	-0.30	<10	-0.40	<10
Sodium	10000	6.1	10.9	<10000	8.1	<10000	-1.0	<10000	-1.8	<10000
Sulfur	50	4.3								
Strontium	10	.1								
Thallium	2.0	1.3	-0.80	<2.0	0.40	<2.0	1.5	<2.0	-0.60	<2.0
Tin	10	.6								
Titanium	10	.3								
Tungsten	50	5.8								
Vanadium	50	.3	0.50	<50	0.80	<50	0.0	<50	0.30	<50
Zinc	20	.4	-1.0	<20	-1.0	<20	-1.2	<20	-1.0	<20

10.1.2 10

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB67898
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SB053014M1.ICP Date Analyzed: 05/30/14 Methods: EPA 200.7, SW846 6010C
QC Limits: result < RL Run ID: MA34133 Units: ug/l

Time: Sample ID:			15:04 CCB4		16:13 CCB5		17:22 CCB6		18:30 CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final

Zirconium 10 .3

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB67898
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SB053014M1.ICP Date Analyzed: 05/30/14 Methods: EPA 200.7, SW846 6010C
QC Limits: result < RL Run ID: MA34133 Units: ug/l

Time: Sample ID:	RL	IDL	19:38 CCB8 raw	final	20:49 CCB9 raw	final	21:56 CCB10 raw	final	23:04 CCB11 raw	final
Metal										
Aluminum	200	5.9	14.5	<200	20.2	<200	21.3	<200	28.5	<200
Antimony	6.0	.8	1.7	<6.0	1.0	<6.0	1.2	<6.0	1.1	<6.0
Arsenic	3.0	.8	1.2	<3.0	0.30	<3.0	1.5	<3.0	0.80	<3.0
Barium	200	.3	0.80	<200	1.1	<200	1.1	<200	1.1	<200
Beryllium	1.0	.09	0.40	<1.0	0.60	<1.0	0.80	<1.0	0.90	<1.0
Bismuth	20	1.4								
Boron	100	.7								
Cadmium	3.0	.2	0.50	<3.0	0.70	<3.0	1.1	<3.0	1.0	<3.0
Calcium	5000	8.7	-6.1	<5000	-0.60	<5000	5.7	<5000	13.0	<5000
Chromium	10	.3	0.10	<10	0.60	<10	1.1	<10	1.0	<10
Cobalt	50	.3	0.30	<50	1.0	<50	1.1	<50	1.1	<50
Copper	10	2.2	-0.90	<10	-0.70	<10	-0.10	<10	0.40	<10
Iron	100	5.5	12.5	<100	13.0	<100	19.2	<100	24.2	<100
Lead	3.0	.9	0.60	<3.0	0.70	<3.0	1.1	<3.0	1.2	<3.0
Lithium	20	1								
Magnesium	5000	19	27.7	<5000	27.9	<5000	19.6	<5000	19.4	<5000
Manganese	15	.2	0.40	<15	0.60	<15	1.2	<15	1.1	<15
Molybdenum	20	.4	anr							
Nickel	10	.4	0.0	<10	0.50	<10	1.1	<10	1.1	<10
Palladium	50	1.7								
Potassium	10000	37	25.3	<10000	21.4	<10000	40.1	<10000	42.4	<10000
Selenium	10	1.7	1.1	<10	-0.50	<10	2.9	<10	1.1	<10
Silicon	200	5.4								
Silver	10	.3	-0.40	<10	-0.30	<10	-0.30	<10	-0.30	<10
Sodium	10000	6.1	7.8	<10000	-1.8	<10000	8.9	<10000	5.6	<10000
Sulfur	50	4.3								
Strontium	10	.1								
Thallium	2.0	1.3	0.10	<2.0	-0.10	<2.0	1.7	<2.0	1.7	<2.0
Tin	10	.6								
Titanium	10	.3								
Tungsten	50	5.8								
Vanadium	50	.3	0.40	<50	0.70	<50	1.4	<50	1.1	<50
Zinc	20	.4	-0.80	<20	-0.60	<20	0.0	<20	0.0	<20

10.1.2 10

BLANK RESULTS SUMMARY
 Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB67898
 Account: LANGAN - Langan Engineering & Environmental
 Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SB053014M1.ICP Date Analyzed: 05/30/14 Methods: EPA 200.7, SW846 6010C
 QC Limits: result < RL Run ID: MA34133 Units: ug/l

Time: Sample ID:			19:38 CCB8		20:49 CCB9		21:56 CCB10		23:04 CCB11	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final

Zirconium 10 .3

(*) Outside of QC limits
 (anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB67898
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SB053014M1.ICP Date Analyzed: 05/30/14 Methods: EPA 200.7, SW846 6010C
QC Limits: result < RL Run ID: MA34133 Units: ug/l

Time: Sample ID:	RL	IDL	00:18 CCB12 raw	final	01:32 CCB13 raw	final	02:46 CCB14 raw	final	04:01 CCB15 raw	final
Metal										
Aluminum	200	5.9	8.9	<200	28.5	<200	26.5	<200	31.3	<200
Antimony	6.0	.8	1.2	<6.0	1.5	<6.0	1.6	<6.0	1.5	<6.0
Arsenic	3.0	.8	0.70	<3.0	1.1	<3.0	1.4	<3.0	1.6	<3.0
Barium	200	.3	0.10	<200	1.6	<200	1.0	<200	1.1	<200
Beryllium	1.0	.09	0.10	<1.0	1.2	* (a)	0.80	<1.0	0.90	<1.0
Bismuth	20	1.4								
Boron	100	.7								
Cadmium	3.0	.2	1.1	<3.0	1.3	<3.0	1.3	<3.0	1.0	<3.0
Calcium	5000	8.7	-2.5	<5000	22.8	<5000	13.5	<5000	17.2	<5000
Chromium	10	.3	-0.20	<10	1.7	<10	0.70	<10	0.70	<10
Cobalt	50	.3	0.80	<50	1.1	<50	1.1	<50	0.90	<50
Copper	10	2.2	0.20	<10	1.3	<10	0.90	<10	0.60	<10
Iron	100	5.5	0.80	<100	31.9	<100	25.3	<100	28.3	<100
Lead	3.0	.9	0.60	<3.0	2.5	<3.0	0.50	<3.0	2.3	<3.0
Lithium	20	1								
Magnesium	5000	19	-8.6	<5000	35.2	<5000	30.4	<5000	27.9	<5000
Manganese	15	.2	0.10	<15	2.1	<15	1.3	<15	1.1	<15
Molybdenum	20	.4	anr							
Nickel	10	.4	0.80	<10	1.3	<10	1.2	<10	1.4	<10
Palladium	50	1.7								
Potassium	10000	37	23.5	<10000	56.7	<10000	28.5	<10000	33.8	<10000
Selenium	10	1.7	1.8	<10	1.0	<10	1.3	<10	1.4	<10
Silicon	200	5.4								
Silver	10	.3	-0.10	<10	0.30	<10	-0.10	<10	-0.10	<10
Sodium	10000	6.1	-15	<10000	20.4	<10000	12.2	<10000	18.6	<10000
Sulfur	50	4.3								
Strontium	10	.1								
Thallium	2.0	1.3	0.0	<2.0	2.5	* (a)	0.90	<2.0	2.5	* (b)
Tin	10	.6								
Titanium	10	.3								
Tungsten	50	5.8								
Vanadium	50	.3	0.20	<50	2.2	<50	1.2	<50	1.1	<50
Zinc	20	.4	-0.40	<20	0.10	<20	-0.10	<20	-0.20	<20

10.1.2 10

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB67898
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SB053014M1.ICP Date Analyzed: 05/30/14 Methods: EPA 200.7, SW846 6010C
QC Limits: result < RL Run ID: MA34133 Units: ug/l

Time: Sample ID:			00:18 CCB12		01:32 CCB13		02:46 CCB14		04:01 CCB15	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final

Zirconium 10 .3

(*) Outside of QC limits
(anr) Analyte not requested
(a) No AQ samples reported for this element in the area bracketed by this QC.
(b) No samples reported for TLNJ in the area bracketed by this QC.

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB67898
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SB053014M1.ICP Date Analyzed: 05/30/14 Methods: EPA 200.7, SW846 6010C
QC Limits: result < RL Run ID: MA34133 Units: ug/l

Time: Sample ID:		04:57 CCB16		
Metal	RL	IDL	raw	final
Aluminum	200	5.9	27.1	<200
Antimony	6.0	.8	1.2	<6.0
Arsenic	3.0	.8	1.8	<3.0
Barium	200	.3	1.2	<200
Beryllium	1.0	.09	0.90	<1.0
Bismuth	20	1.4		
Boron	100	.7		
Cadmium	3.0	.2	1.3	<3.0
Calcium	5000	8.7	15.4	<5000
Chromium	10	.3	0.40	<10
Cobalt	50	.3	1.1	<50
Copper	10	2.2	0.60	<10
Iron	100	5.5	28.2	<100
Lead	3.0	.9	1.0	<3.0
Lithium	20	1		
Magnesium	5000	19	39.3	<5000
Manganese	15	.2	1.1	<15
Molybdenum	20	.4	anr	
Nickel	10	.4	1.1	<10
Palladium	50	1.7		
Potassium	10000	37	58.5	<10000
Selenium	10	1.7	1.6	<10
Silicon	200	5.4		
Silver	10	.3	-0.20	<10
Sodium	10000	6.1	4.5	<10000
Sulfur	50	4.3		
Strontium	10	.1		
Thallium	2.0	1.3	2.1	* (a)
Tin	10	.6		
Titanium	10	.3		
Tungsten	50	5.8		
Vanadium	50	.3	1.2	<50
Zinc	20	.4	-0.10	<20

10.1.2
10

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB67898
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SB053014M1.ICP Date Analyzed: 05/30/14 Methods: EPA 200.7, SW846 6010C
QC Limits: result < RL Run ID: MA34133 Units: ug/l

Time:		04:57	
Sample ID:		CCB16	
Metal	RL	IDL	raw final

Zirconium 10 .3

- (*) Outside of QC limits
(anr) Analyte not requested
(a) No samples reported for TLNJ in the area bracketed by this QC.

CALIBRATION CHECK STANDARDS SUMMARY
Initial Continuing Calibration Check

Login Number: JB67898

Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SB053014M1.ICP Date Analyzed: 05/30/14 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA34133 Units: ug/l

Time: Sample ID:	ICCV	11:08 ICCV1	
Metal	True	Results	% Rec
Aluminum	40000	39200	98.0
Antimony	2000	1980	99.0
Arsenic	2000	1990	99.5
Barium	2000	1990	99.5
Beryllium	2000	2030	101.5
Bismuth			
Boron			
Cadmium	2000	2000	100.0
Calcium	40000	40800	102.0
Chromium	2000	2070	103.5
Cobalt	2000	2010	100.5
Copper	2000	1960	98.0
Iron	40000	41100	102.8
Lead	2000	2050	102.5
Lithium			
Magnesium	40000	40800	102.0
Manganese	2000	2090	104.5
Molybdenum	anr		
Nickel	2000	2040	102.0
Palladium			
Potassium	40000	39500	98.8
Selenium	2000	1970	98.5
Silicon			
Silver	250	251	100.4
Sodium	40000	39600	99.0
Sulfur			
Strontium			
Thallium	2000	2050	102.5
Tin			
Titanium			
Tungsten			
Vanadium	2000	2020	101.0
Zinc	2000	2060	103.0

CALIBRATION CHECK STANDARDS SUMMARY
Initial Continuing Calibration Check

Login Number: JB67898

Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SB053014M1.ICP Date Analyzed: 05/30/14 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA34133 Units: ug/l

Time:	11:08
Sample ID:	ICCV
Metal	True
Results	% Rec

Zirconium

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB67898
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SB053014M1.ICP Date Analyzed: 05/30/14 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA34133 Units: ug/l

Time: Sample ID:	ICV	10:47 ICV1		CCV	12:29 CCV1		CCV	13:38 CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	40100	100.3	40000	39600	99.0	40000	39400	98.5
Antimony	2000	1930	96.5	2000	1930	96.5	2000	1930	96.5
Arsenic	2000	1930	96.5	2000	1950	97.5	2000	1930	96.5
Barium	2000	2000	100.0	2000	1980	99.0	2000	1980	99.0
Beryllium	2000	2040	102.0	2000	2020	101.0	2000	2000	100.0
Bismuth									
Boron									
Cadmium	2000	1950	97.5	2000	1950	97.5	2000	1940	97.0
Calcium	40000	40000	100.0	40000	39800	99.5	40000	39600	99.0
Chromium	2000	2010	100.5	2000	2000	100.0	2000	2000	100.0
Cobalt	2000	1960	98.0	2000	1960	98.0	2000	1950	97.5
Copper	2000	1970	98.5	2000	1940	97.0	2000	1940	97.0
Iron	40000	40500	101.3	40000	40200	100.5	40000	40000	100.0
Lead	2000	2000	100.0	2000	2010	100.5	2000	2010	100.5
Lithium									
Magnesium	40000	40100	100.3	40000	40100	100.3	40000	39700	99.3
Manganese	2000	2060	103.0	2000	2050	102.5	2000	2050	102.5
Molybdenum	anr								
Nickel	2000	1990	99.5	2000	2000	100.0	2000	1990	99.5
Palladium									
Potassium	40000	40000	100.0	40000	39700	99.3	40000	39700	99.3
Selenium	2000	1920	96.0	2000	1940	97.0	2000	1930	96.5
Silicon									
Silver	250	249	99.6	250	246	98.4	250	246	98.4
Sodium	40000	40400	101.0	40000	40200	100.5	40000	40100	100.3
Sulfur									
Strontium									
Thallium	2000	2010	100.5	2000	1990	99.5	2000	2010	100.5
Tin									
Titanium									
Tungsten									
Vanadium	2000	2020	101.0	2000	2000	100.0	2000	2000	100.0
Zinc	2000	2000	100.0	2000	2020	101.0	2000	2000	100.0

10.1.4
10

Login Number: JB67898
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB67898
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SB053014M1.ICP Date Analyzed: 05/30/14 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA34133 Units: ug/l

Time: Sample ID:	CCV	14:58 CCV3 Results	% Rec	CCV	16:07 CCV4 Results	% Rec	CCV	17:16 CCV5 Results	% Rec
Metal	True			True			True		
Aluminum	40000	40200	100.5	40000	39700	99.3	40000	40100	100.3
Antimony	2000	1920	96.0	2000	1890	94.5	2000	1900	95.0
Arsenic	2000	1920	96.0	2000	1920	96.0	2000	1920	96.0
Barium	2000	1990	99.5	2000	1970	98.5	2000	1990	99.5
Beryllium	2000	2010	100.5	2000	2000	100.0	2000	2010	100.5
Bismuth									
Boron									
Cadmium	2000	1920	96.0	2000	1910	95.5	2000	1910	95.5
Calcium	40000	39200	98.0	40000	39600	99.0	40000	39400	98.5
Chromium	2000	1970	98.5	2000	1990	99.5	2000	1980	99.0
Cobalt	2000	1940	97.0	2000	1920	96.0	2000	1920	96.0
Copper	2000	1960	98.0	2000	1910	95.5	2000	1930	96.5
Iron	40000	39700	99.3	40000	39900	99.8	40000	40000	100.0
Lead	2000	2010	100.5	2000	1990	99.5	2000	2010	100.5
Lithium									
Magnesium	40000	39600	99.0	40000	39900	99.8	40000	40000	100.0
Manganese	2000	2060	103.0	2000	2050	102.5	2000	2060	103.0
Molybdenum	anr								
Nickel	2000	1990	99.5	2000	1970	98.5	2000	1980	99.0
Palladium									
Potassium	40000	40100	100.3	40000	39900	99.8	40000	40500	101.3
Selenium	2000	1920	96.0	2000	1900	95.0	2000	1920	96.0
Silicon									
Silver	250	246	98.4	250	244	97.6	250	244	97.6
Sodium	40000	40900	102.3	40000	40500	101.3	40000	41200	103.0
Sulfur									
Strontium									
Thallium	2000	1980	99.0	2000	1990	99.5	2000	1990	99.5
Tin									
Titanium									
Tungsten									
Vanadium	2000	2040	102.0	2000	1990	99.5	2000	2010	100.5
Zinc	2000	1990	99.5	2000	1980	99.0	2000	1980	99.0

10.1.4
10

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB67898
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SB053014M1.ICP Date Analyzed: 05/30/14 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA34133 Units: ug/l

Time:		14:58			16:07			17:16		
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5		
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec	

Zirconium

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB67898
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SB053014M1.ICP Date Analyzed: 05/30/14 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA34133 Units: ug/l

Time: Sample ID:	CCV	18:24 CCV6		CCV	19:32 CCV7		CCV	20:43 CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	39700	99.3	40000	40000	100.0	40000	40400	101.0
Antimony	2000	1900	95.0	2000	1900	95.0	2000	1900	95.0
Arsenic	2000	1920	96.0	2000	1920	96.0	2000	1920	96.0
Barium	2000	1980	99.0	2000	1970	98.5	2000	1970	98.5
Beryllium	2000	2000	100.0	2000	2000	100.0	2000	2020	101.0
Bismuth									
Boron									
Cadmium	2000	1900	95.0	2000	1900	95.0	2000	1900	95.0
Calcium	40000	39500	98.8	40000	39200	98.0	40000	39300	98.3
Chromium	2000	1970	98.5	2000	1980	99.0	2000	1980	99.0
Cobalt	2000	1910	95.5	2000	1920	96.0	2000	1920	96.0
Copper	2000	1910	95.5	2000	1920	96.0	2000	1920	96.0
Iron	40000	39900	99.8	40000	39700	99.3	40000	39900	99.8
Lead	2000	2000	100.0	2000	2020	101.0	2000	2020	101.0
Lithium									
Magnesium	40000	40000	100.0	40000	39900	99.8	40000	40400	101.0
Manganese	2000	2050	102.5	2000	2070	103.5	2000	2070	103.5
Molybdenum	anr								
Nickel	2000	1970	98.5	2000	1990	99.5	2000	1990	99.5
Palladium									
Potassium	40000	40400	101.0	40000	40600	101.5	40000	40900	102.3
Selenium	2000	1910	95.5	2000	1910	95.5	2000	1910	95.5
Silicon									
Silver	250	243	97.2	250	244	97.6	250	245	98.0
Sodium	40000	40900	102.3	40000	41200	103.0	40000	41200	103.0
Sulfur									
Strontium									
Thallium	2000	1970	98.5	2000	1980	99.0	2000	1970	98.5
Tin									
Titanium									
Tungsten									
Vanadium	2000	1980	99.0	2000	2020	101.0	2000	2020	101.0
Zinc	2000	1980	99.0	2000	2000	100.0	2000	2000	100.0

10.1.4
10

Login Number: JB67898
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Zirconium

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB67898
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SB053014M1.ICP Date Analyzed: 05/30/14 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA34133 Units: ug/l

Time: Sample ID:	CCV	21:50 CCV9 Results	% Rec	CCV	22:58 CCV10 Results	% Rec	CCV	00:12 CCV11 Results	% Rec
Metal	True			True			True		
Aluminum	40000	39400	98.5	40000	38500	96.3	40000	39900	99.8
Antimony	2000	1890	94.5	2000	1930	96.5	2000	1970	98.5
Arsenic	2000	1920	96.0	2000	1960	98.0	2000	1970	98.5
Barium	2000	1950	97.5	2000	1960	98.0	2000	2040	102.0
Beryllium	2000	1990	99.5	2000	1970	98.5	2000	2010	100.5
Bismuth									
Boron									
Cadmium	2000	1900	95.0	2000	1930	96.5	2000	1960	98.0
Calcium	40000	39200	98.0	40000	39600	99.0	40000	39200	98.0
Chromium	2000	1970	98.5	2000	1980	99.0	2000	2000	100.0
Cobalt	2000	1910	95.5	2000	1940	97.0	2000	1950	97.5
Copper	2000	1890	94.5	2000	1880	94.0	2000	1990	99.5
Iron	40000	39500	98.8	40000	39700	99.3	40000	39700	99.3
Lead	2000	2000	100.0	2000	1980	99.0	2000	1970	98.5
Lithium									
Magnesium	40000	39800	99.5	40000	39600	99.0	40000	38900	97.3
Manganese	2000	2030	101.5	2000	2000	100.0	2000	2040	102.0
Molybdenum	anr								
Nickel	2000	1970	98.5	2000	1980	99.0	2000	1970	98.5
Palladium									
Potassium	40000	40300	100.8	40000	39900	99.8	40000	41100	102.8
Selenium	2000	1910	95.5	2000	1960	98.0	2000	1990	99.5
Silicon									
Silver	250	242	96.8	250	241	96.4	250	245	98.0
Sodium	40000	40100	100.3	40000	39200	98.0	40000	40400	101.0
Sulfur									
Strontium									
Thallium	2000	1990	99.5	2000	2030	101.5	2000	2080	104.0
Tin									
Titanium									
Tungsten									
Vanadium	2000	1980	99.0	2000	1920	96.0	2000	2000	100.0
Zinc	2000	1980	99.0	2000	1980	99.0	2000	1950	97.5

10.1.4
10

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB67898
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SB053014M1.ICP Date Analyzed: 05/30/14 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA34133 Units: ug/l

Time:		21:50			22:58			00:12		
Sample ID:	CCV	CCV9		CCV	CCV10		CCV	CCV11		
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec	

Zirconium

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB67898
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SB053014M1.ICP Date Analyzed: 05/30/14 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA34133 Units: ug/l

Time: Sample ID:	CCV	01:26 CCV12		CCV	02:40 CCV13		CCV	03:55 CCV14	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	40300	100.8	40000	40000	100.0	40000	39500	98.8
Antimony	2000	1980	99.0	2000	1980	99.0	2000	1920	96.0
Arsenic	2000	2000	100.0	2000	2000	100.0	2000	1930	96.5
Barium	2000	2050	102.5	2000	2060	103.0	2000	2000	100.0
Beryllium	2000	2030	101.5	2000	2030	101.5	2000	1990	99.5
Bismuth									
Boron									
Cadmium	2000	1990	99.5	2000	1990	99.5	2000	1930	96.5
Calcium	40000	39500	98.8	40000	40000	100.0	40000	38900	97.3
Chromium	2000	2010	100.5	2000	2030	101.5	2000	1980	99.0
Cobalt	2000	1970	98.5	2000	1980	99.0	2000	1940	97.0
Copper	2000	1980	99.0	2000	1970	98.5	2000	1930	96.5
Iron	40000	39800	99.5	40000	40300	100.8	40000	39000	97.5
Lead	2000	1990	99.5	2000	1990	99.5	2000	1970	98.5
Lithium									
Magnesium	40000	39200	98.0	40000	39700	99.3	40000	38700	96.8
Manganese	2000	2050	102.5	2000	2050	102.5	2000	2020	101.0
Molybdenum	anr								
Nickel	2000	2000	100.0	2000	2000	100.0	2000	1970	98.5
Palladium									
Potassium	40000	41400	103.5	40000	41400	103.5	40000	40800	102.0
Selenium	2000	2010	100.5	2000	2010	100.5	2000	1940	97.0
Silicon									
Silver	250	246	98.4	250	246	98.4	250	241	96.4
Sodium	40000	40800	102.0	40000	40700	101.8	40000	40100	100.3
Sulfur									
Strontium									
Thallium	2000	2110	105.5	2000	2100	105.0	2000	2050	102.5
Tin									
Titanium									
Tungsten									
Vanadium	2000	2000	100.0	2000	2000	100.0	2000	1980	99.0
Zinc	2000	1990	99.5	2000	2000	100.0	2000	1970	98.5

10.1.4
10

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB67898
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SB053014M1.ICP Date Analyzed: 05/30/14 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA34133 Units: ug/l

Time:		01:26		02:40		03:55	
Sample ID:	CCV	CCV12	CCV	CCV13	CCV	CCV14	
Metal	True	Results	% Rec	True	Results	% Rec	True

Zirconium

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB67898

Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SB053014M1.ICP Date Analyzed: 05/30/14 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA34133 Units: ug/l

Time: Sample ID:	CCV	04:51 CCV15	
Metal	True	Results	% Rec
Aluminum	40000	39200	98.0
Antimony	2000	1900	95.0
Arsenic	2000	1920	96.0
Barium	2000	1990	99.5
Beryllium	2000	1980	99.0
Bismuth			
Boron			
Cadmium	2000	1920	96.0
Calcium	40000	39200	98.0
Chromium	2000	2000	100.0
Cobalt	2000	1940	97.0
Copper	2000	1940	97.0
Iron	40000	39200	98.0
Lead	2000	1970	98.5
Lithium			
Magnesium	40000	39000	97.5
Manganese	2000	2040	102.0
Molybdenum	anr		
Nickel	2000	1970	98.5
Palladium			
Potassium	40000	40600	101.5
Selenium	2000	1920	96.0
Silicon			
Silver	250	243	97.2
Sodium	40000	39900	99.8
Sulfur			
Strontium			
Thallium	2000	2030	101.5
Tin			
Titanium			
Tungsten			
Vanadium	2000	2000	100.0
Zinc	2000	1980	99.0

10.1.4
10

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB67898

Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SB053014M1.ICP Date Analyzed: 05/30/14 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA34133 Units: ug/l

Time:	04:51
Sample ID:	CCV
	CCV15
Metal	True
Results	% Rec

Zirconium

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JB67898
 Account: LANGAN - Langan Engineering & Environmental
 Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SB053014M1.ICP Date Analyzed: 05/30/14 Methods: EPA 200.7, SW846 6010C
 QC Limits: 70 to 130 % Recovery Run ID: MA34133 Units: ug/l

Time: Sample ID:	CRI	CRIA	CRID	11:32 CRI1	% Rec	11:38 CRID1	% Rec	11:45 CRIA1	% Rec
Metal	True	True	True	Results		Results		Results	
Aluminum	200	500	100	213	106.5	111	111.0	510	102.0
Antimony	6.0	20	3.0	6.9	115.0	3.8	126.7	19.9	99.5
Arsenic	8.0	20	3.0	9.2	115.0	3.7	123.3	20.1	100.5
Barium	200		4.0	208	104.0	4.2	105.0		
Beryllium	2.0		1.0	2.3	115.0	1.1	110.0		
Bismuth	20								
Boron	100		10						
Cadmium	3.0		1.0	3.4	113.3	1.1	110.0		
Calcium	5000		1000	5160	103.2	1040	104.0		
Chromium	10		2.0	10.9	109.0	2.0	100.0		
Cobalt	50		3.0	50.2	100.4	2.7	90.0		
Copper	10		2.0	9.8	98.0				
Iron	100	500		108	108.0			537	107.4
Lead	3.0	20	2.5	3.8	126.7	2.5	100.0	21.4	107.0
Lithium	20								
Magnesium	5000		100	5340	106.8	110	110.0		
Manganese	15		3.0	16.9	112.7	3.2	106.7		
Molybdenum	20			anr					
Nickel	10		4.0	9.9	99.0	3.7	92.5		
Palladium	50								
Potassium	5000		2000	5230	104.6	2100	105.0		
Selenium	10	20	5.0	9.8	98.0	6.1	122.0	20.2	101.0
Silicon	200								
Silver	5.0		1.0	5.1	102.0	0.90	90.0		
Sodium	5000		1000	5230	104.6	1030	103.0		
Sulfur	50								
Strontium	10								
Thallium	10		2.0	9.2	92.0	2.1	105.0		
Tin	10								
Titanium	10								
Tungsten	50								
Vanadium	50		2.0	54.7	109.4	2.1	105.0		
Zinc	20		10	21.6	108.0	10.2	102.0		

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JB67898
 Account: LANGAN - Langan Engineering & Environmental
 Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SB053014M1.ICP Date Analyzed: 05/30/14 Methods: EPA 200.7, SW846 6010C
 QC Limits: 70 to 130 % Recovery Run ID: MA34133 Units: ug/l

Time:				11:32		11:38		11:45	
Sample ID:	CRI	CRIA	CRID	CRI1		CRID1		CRIA1	
Metal	True	True	True	Results	% Rec	Results	% Rec	Results	% Rec

Zirconium 10

(*) Outside of QC limits
 (anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JB67898
 Account: LANGAN - Langan Engineering & Environmental
 Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SB053014M1.ICP Date Analyzed: 05/30/14 Methods: EPA 200.7, SW846 6010C
 QC Limits: 70 to 130 % Recovery Run ID: MA34133 Units: ug/l

Time: Sample ID:	CRI	CRIA	CRID	12:43 CRID2	% Rec	19:44 CRI2	% Rec	19:51 CRID3	% Rec
Metal	True	True	True	Results		Results		Results	
Aluminum	200	500	100	112	112.0	213	106.5	113	113.0
Antimony	6.0	20	3.0	3.3	110.0	6.8	113.3		
Arsenic	8.0	20	3.0	3.7	123.3	8.5	106.3	3.1	103.3
Barium	200		4.0	4.4	110.0	204	102.0	4.3	107.5
Beryllium	2.0		1.0	1.0	100.0	2.3	115.0	1.0	100.0
Bismuth	20								
Boron	100		10						
Cadmium	3.0		1.0	1.2	120.0	3.2	106.7	1.1	110.0
Calcium	5000		1000	1020	102.0	5180	103.6	1040	104.0
Chromium	10		2.0	1.9	95.0	10.5	105.0	2.1	105.0
Cobalt	50		3.0	3.1	103.3	49.5	99.0	3.1	103.3
Copper	10		2.0			8.9	89.0		
Iron	100	500				109	109.0		
Lead	3.0	20	2.5	2.7	108.0	3.7	123.3	3.2	128.0
Lithium	20								
Magnesium	5000		100	125	125.0	5540	110.8	111	111.0
Manganese	15		3.0	3.3	110.0	16.6	110.7	3.3	110.0
Molybdenum	20								
Nickel	10		4.0	3.8	95.0	10.2	102.0	3.8	95.0
Palladium	50								
Potassium	5000		2000	2090	104.5	5260	105.2	2170	108.5
Selenium	10	20	5.0	6.3	126.0	11.5	115.0	6.3	126.0
Silicon	200								
Silver	5.0		1.0			4.8	96.0	0.70	70.0
Sodium	5000		1000	1040	104.0	5160	103.2	1040	104.0
Sulfur	50								
Strontium	10								
Thallium	10		2.0	1.6	80.0	8.3	83.0	1.7	85.0
Tin	10								
Titanium	10								
Tungsten	50								
Vanadium	50		2.0	2.2	110.0	52.6	105.2	2.3	115.0
Zinc	20		10	10.2	102.0	21.6	108.0	10.6	106.0

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JB67898
 Account: LANGAN - Langan Engineering & Environmental
 Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SB053014M1.ICP Date Analyzed: 05/30/14 Methods: EPA 200.7, SW846 6010C
 QC Limits: 70 to 130 % Recovery Run ID: MA34133 Units: ug/l

Time:				12:43		19:44		19:51	
Sample ID:	CRI	CRIA	CRID	CRID2		CRI2		CRID3	
Metal	True	True	True	Results	% Rec	Results	% Rec	Results	% Rec

Zirconium 10

(*) Outside of QC limits
 (anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JB67898
 Account: LANGAN - Langan Engineering & Environmental
 Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SB053014M1.ICP Date Analyzed: 05/30/14 Methods: EPA 200.7, SW846 6010C
 QC Limits: 70 to 130 % Recovery Run ID: MA34133 Units: ug/l

Time: Sample ID:	CRI	CRIA	CRID	19:57 CRIA2	% Rec	04:07 CRI3	% Rec	04:13 CRID4	% Rec
Metal	True	True	True	Results		Results		Results	
Aluminum	200	500	100	517	103.4	209	104.5	115	115.0
Antimony	6.0	20	3.0	20.5	102.5	7.1	118.3	3.1	103.3
Arsenic	8.0	20	3.0	19.4	97.0	9.3	116.3	3.3	110.0
Barium	200		4.0			208	104.0	4.6	115.0
Beryllium	2.0		1.0			2.4	120.0	1.1	110.0
Bismuth	20								
Boron	100		10						
Cadmium	3.0		1.0			3.4	113.3	1.2	120.0
Calcium	5000		1000			5120	102.4	1030	103.0
Chromium	10		2.0			11.3	113.0	2.0	100.0
Cobalt	50		3.0			49.8	99.6	3.0	100.0
Copper	10		2.0			9.6	96.0		
Iron	100	500		537	107.4	109	109.0		
Lead	3.0	20	2.5	22.2	111.0	3.7	123.3	3.0	120.0
Lithium	20								
Magnesium	5000		100			5310	106.2	113	113.0
Manganese	15		3.0			16.5	110.0	3.4	113.3
Molybdenum	20								
Nickel	10		4.0			10.2	102.0	4.3	107.5
Palladium	50								
Potassium	5000		2000			5320	106.4	2190	109.5
Selenium	10	20	5.0	20.7	103.5	10.8	108.0		
Silicon	200								
Silver	5.0		1.0			4.7	94.0	0.70	70.0
Sodium	5000		1000			5090	101.8	1040	104.0
Sulfur	50								
Strontium	10								
Thallium	10		2.0			9.4	94.0	3.2	160.0*(a
Tin	10								
Titanium	10								
Tungsten	50								
Vanadium	50		2.0			52.6	105.2	2.2	110.0
Zinc	20		10			21.6	108.0	10.4	104.0

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JB67898
 Account: LANGAN - Langan Engineering & Environmental
 Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SB053014M1.ICP Date Analyzed: 05/30/14 Methods: EPA 200.7, SW846 6010C
 QC Limits: 70 to 130 % Recovery Run ID: MA34133 Units: ug/l

Time:					19:57		04:07		04:13	
Sample ID:	CRI	CRIA	CRID	CRIA2	Results	% Rec	CRI3	Results	CRID4	% Rec
Metal	True	True	True							

Zirconium 10

(*) Outside of QC limits

(anr) Analyte not requested

(a) No samples reported for TLNJ in the area bracketed by this QC.

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JB67898

Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SB053014M1.ICP
QC Limits: 70 to 130 % Recovery

Date Analyzed: 05/30/14
Run ID: MA34133

Methods: EPA 200.7, SW846 6010C
Units: ug/l

Time: Sample ID:	CRI	CRIA	CRID	04:19 CRIA3	% Rec
Metal	True	True	True	Results	
Aluminum	200	500	100	526	105.2
Antimony	6.0	20	3.0	19.7	98.5
Arsenic	8.0	20	3.0	19.4	97.0
Barium	200		4.0		
Beryllium	2.0		1.0		
Bismuth	20				
Boron	100		10		
Cadmium	3.0		1.0		
Calcium	5000		1000		
Chromium	10		2.0		
Cobalt	50		3.0		
Copper	10		2.0		
Iron	100	500		543	108.6
Lead	3.0	20	2.5	20.9	104.5
Lithium	20				
Magnesium	5000		100		
Manganese	15		3.0		
Molybdenum	20				
Nickel	10		4.0		
Palladium	50				
Potassium	5000		2000		
Selenium	10	20	5.0	21.6	108.0
Silicon	200				
Silver	5.0		1.0		
Sodium	5000		1000		
Sulfur	50				
Strontium	10				
Thallium	10		2.0		
Tin	10				
Titanium	10				
Tungsten	50				
Vanadium	50		2.0		
Zinc	20		10		

10.1.5
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LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JB67898
 Account: LANGAN - Langan Engineering & Environmental
 Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SB053014M1.ICP Date Analyzed: 05/30/14 Methods: EPA 200.7, SW846 6010C
 QC Limits: 70 to 130 % Recovery Run ID: MA34133 Units: ug/l

Time:				04:19	
Sample ID:	CRI	CRIA	CRID	CRIA3	
Metal	True	True	True	Results	% Rec

Zirconium 10

(*) Outside of QC limits
 (anr) Analyte not requested

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: JB67898
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SB053014M1.ICP Date Analyzed: 05/30/14 Methods: EPA 200.7, SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA34133 Units: ug/l

Time: Sample ID:	ICSA True	ICSAB True	12:04 ICSA2 Results	% Rec	12:10 ICSAB2 Results	% Rec	20:03 ICSA3 Results	% Rec	20:10 ICSAB3 Results	% Rec
Metal										
Aluminum	500000	500000	518000	103.6	507000	101.4	516000	103.2	516000	103.2
Antimony		1000	10.8		1000	100.0	9.1		999	99.9
Arsenic		1000	0.50		1100	110.0	-1.9		1110	111.0
Barium		500	-0.60		500	100.0	-0.50		500	100.0
Beryllium		500	0.0		504	100.8	0.0		507	101.4
Bismuth		500	1.0		502	100.4	1.3		498	99.6
Boron			-12		-13		-12		-13	
Cadmium		1000	1.3		991	99.1	1.0		986	98.6
Calcium	400000	400000	387000	96.8	381000	95.3	383000	95.8	382000	95.5
Chromium		500	-1.5		477	95.4	-1.2		476	95.2
Cobalt		500	3.5		470	94.0	3.3		469	93.8
Copper		500	-3.6		524	104.8	-3.5		518	103.6
Iron	200000	200000	197000	98.5	191000	95.5	195000	97.5	191000	95.5
Lead		1000	-0.80		945	94.5	5.8		963	96.3
Lithium		500	5.2		546	109.2	6.8		558	111.6
Magnesium	500000	500000	546000	109.2	533000	106.6	551000	110.2	542000	108.4
Manganese		500	3.1		515	103.0	1.2		518	103.6
Molybdenum		500	-1.3		483	96.6	-1.3		490	98.0
Nickel		1000	-0.30		946	94.6	-0.20		955	95.5
Palladium		500	-16		530	106.0	-15		523	104.6
Potassium			13.2		4.9		7.6		-4.7	
Selenium		1000	13.7		1030	103.0	14.1		1030	103.0
Silicon			-7.1		0.30		-6.4		-0.20	
Silver		1000	1.9		1130	113.0	-3.4		1130	113.0
Sodium			-3.7		-10		-18		-6.0	
Sulfur		500	-54		424	84.8	-50		442	88.4
Strontium			-0.70		-0.70		-0.60		-0.60	
Thallium		1000	1.8		910	91.0	2.2		921	92.1
Tin			8.2		10.0		8.0		7.9	
Titanium			1.9		6.0		2.6		5.6	
Tungsten		500	40.3		520	104.0	26.1		511	102.2
Vanadium		500	-2.6		481	96.2	-1.7		479	95.8
Zinc		1000	-0.70		933	93.3	-0.80		945	94.5

10.1.6
10

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: JB67898
 Account: LANGAN - Langan Engineering & Environmental
 Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SB053014M1.ICP Date Analyzed: 05/30/14 Methods: EPA 200.7, SW846 6010C
 QC Limits: 80 to 120 % Recovery Run ID: MA34133 Units: ug/l

Time:				12:04			12:10			20:03			20:10		
Sample ID:	ICSA	ICSAB	ICSA2			ICSA2	ICSAB2			ICSA3			ICSAB3		
Metal	True	True	Results	%	Rec	Results	%	Rec	Results	%	Rec	Results	%	Rec	

Zirconium	500	18.3		518	103.6	14.4		514	102.8

(*) Outside of QC limits
 (anr) Analyte not requested

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB67898

Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA060214M1.ICP Date Analyzed: 06/02/14 Methods: EPA 200.7, SW846 6010C
Analyst: ND Run ID: MA34145
Parameters: Al, Sb, As, Ba, Be, Cd, Cr, Co, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, Tl, V, Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
11:38	MA34145-STD1	1		STDA
11:44	MA34145-STD2	1		STDB
11:50	ZZZZZZ	1		
11:56	ZZZZZZ	1		
12:04	MA34145-ICV1	1		
12:15	MA34145-ICB1	1		
12:20	MA34145-ICCV1	1		
12:30	MA34145-CCB1	1		
12:35	MA34145-CRI1	1		
12:41	MA34145-CRID1	1		
12:48	MA34145-CRIA1	1		
12:54	MA34145-ICSA1	1		
13:00	MA34145-ICSAB1	1		
13:06	ZZZZZZ	1		
13:12	ZZZZZZ	1		
13:18	MA34145-CCV1	1		
13:24	MA34145-CCB2	1		
13:30	MP79668-MB2	1		
13:36	MP79668-B2	1		
13:42	MP79668-S1	1		
13:48	MP79668-S2	1		
13:54	JB67344-3	1		(sample used for QC only; not part of login JB67898)
14:00	MP79668-SD1	5		
14:06	MP79668-PS1	1		
14:12	ZZZZZZ	1		
14:18	ZZZZZZ	1		
14:25	MA34145-CCV2	1		
14:30	MA34145-CCB3	1		
14:36	MP79776-MB1	1		
14:42	MP79743A-MB1	1		
14:49	MP79668-S1	5		
14:54	MP79668-S2	5		
15:00	JB67344-3	5		(sample used for QC only; not part of login JB67898)

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB67898

Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA060214M1.ICP Date Analyzed: 06/02/14 Methods: EPA 200.7, SW846 6010C
Analyst: ND Run ID: MA34145
Parameters: Al, Sb, As, Ba, Be, Cd, Cr, Co, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, Tl, V, Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
15:06	MP79668-SD1	25		
15:12	ZZZZZZ	5		
15:18	ZZZZZZ	5		
15:24	ZZZZZZ	5		
15:30	MA34145-CCV3	1		
15:36	MA34145-CCB4	1		
15:44	MP79668-PS1	5		
15:55	MP79668-SD1	25		
16:05	ZZZZZZ	1		
16:11	MP79773-LC1	1		
16:17	MP79773-MB2	1		
16:23	ZZZZZZ	1		
16:29	ZZZZZZ	1		
16:35	ZZZZZZ	1		
16:41	MA34145-CCV4	1		
16:47	MA34145-CCB5	1		
16:53	ZZZZZZ	1		
16:59	MP79767-S1	5		
17:05	MP79767-S2	5		
17:11	JB67938-1	5		(sample used for QC only; not part of login JB67898)
17:17	MP79767-SD1	25		
17:23	MP79767-PS1	1		
17:29	ZZZZZZ	2		
17:35	ZZZZZZ	10		
17:42	ZZZZZZ	5		
17:48	MA34145-CCV5	1		
17:53	MA34145-CCB6	1		
17:59	ZZZZZZ	1		
18:09	MP79767-PS1	5		
18:15	ZZZZZZ	5		
18:21	ZZZZZZ	1		
18:27	ZZZZZZ	1		
18:33	MP79780-MB1	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB67898

Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA060214M1.ICP Date Analyzed: 06/02/14 Methods: EPA 200.7, SW846 6010C
Analyst: ND Run ID: MA34145
Parameters: Al, Sb, As, Ba, Be, Cd, Cr, Co, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, Tl, V, Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
18:39	MP79780-LC1	1		
18:45	MP79780-S1	1		High rsd
18:51	MP79780-S2	1		High rsd
18:57	MA34145-CCV6	1		
19:03	MA34145-CCB7	1		
19:09	JB67852-1	1		(sample used for QC only; not part of login JB67898)
19:15	MP79780-SD1	5		High rsd
19:21	ZZZZZZ	1		
19:27	ZZZZZZ	1		
19:33	ZZZZZZ	1		
19:39	ZZZZZZ	1		
19:45	ZZZZZZ	1		
19:51	ZZZZZZ	1		
19:57	ZZZZZZ	5		
20:03	MA34145-CCV7	1		
20:09	MA34145-CCB8	1		
20:15	MP79780-LC1	1		
20:21	ZZZZZZ	1		
20:27	MA34145-CRI2	1		
20:33	MA34145-CRID2	1		
20:39	MA34145-CRIA2	1		
20:45	MA34145-ICSA2	1		
20:51	MA34145-ICSAB2	1		
20:57	ZZZZZZ	1		
21:04	MA34145-CCV8	1		
21:11	MA34145-CCB9	1		
21:17	ZZZZZZ	1		
21:17	ZZZZZZ	1		
21:23	ZZZZZZ	1		
21:23	ZZZZZZ	1		
21:29	ZZZZZZ	1		
21:35	ZZZZZZ	1		
21:41	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB67898

Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA060214M1.ICP Date Analyzed: 06/02/14 Methods: EPA 200.7, SW846 6010C
Analyst: ND Run ID: MA34145
Parameters: Al, Sb, As, Ba, Be, Cd, Cr, Co, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, Tl, V, Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
21:48	JB67815-12	1		(sample used for QC only; not part of login JB67898)
21:54	ZZZZZZ	1		
22:00	ZZZZZZ	1		
22:06	MP79732-LC1	1		
22:12	MA34145-CCV9	1		
22:17	MA34145-CCB10	1		
22:23	MP79732-MB1	1		
22:30	MP79732-B1	1		
22:35	MA34145-CCV10	1		
22:41	MA34145-CCB11	1		
22:47	MP79732-S1	1		Tl hit
22:53	MP79732-S2	1		Tl hit
22:59	JB67783-1	1		(sample used for QC only; not part of login JB67898)
23:06	MP79732-SD1	5		Tl hit
23:12	ZZZZZZ	1		
23:18	MP79805-MB1	1		
23:24	MP79805-LC1	1		High recovery on Se
23:30	MP79805-LC2	1		
23:35	MP79805-S1	1		S high
23:42	MA34145-CCV11	1		
23:47	MA34145-CCB12	1		
23:54	MP79805-S2	1		S high
00:00	JB68057-3	1		(sample used for QC only; not part of login JB67898)
00:06	MP79805-SD1	5		S high
00:12	ZZZZZZ	1		
00:18	ZZZZZZ	1		
00:24	MP79805-MB2	1		
00:30	MP79781-MB1	1		CCV out
00:36	MP79781-LC1	1		CCV out
00:42	ZZZZZZ	1		
00:48	MA34145-CCV12	1		
00:54	MA34145-CCB13	1		
01:00	MA34145-CRI3	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB67898

Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA060214M1.ICP Date Analyzed: 06/02/14 Methods: EPA 200.7, SW846 6010C
Analyst: ND Run ID: MA34145
Parameters: Al, Sb, As, Ba, Be, Cd, Cr, Co, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, Tl, V, Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
01:06	MA34145-CRID3	1		
01:12	MA34145-CRIA3	1		
01:18	MA34145-CCV13	1		
01:24	MA34145-CCB14	1		
01:30	JB67898-4	1		CCV out
----->	Last reportable sample/prep for job JB67898			
01:36	ZZZZZZ	1		
01:42	ZZZZZZ	1		
01:48	ZZZZZZ	1		
01:55	ZZZZZZ	1		
02:01	ZZZZZZ	1		
02:07	ZZZZZZ	1		
02:13	ZZZZZZ	1		
02:19	MP79776-B1	1		
02:25	MP79776-S1	2		
02:31	MA34145-CCV14	1		
02:37	MA34145-CCB15	1		
02:43	MP79776-S1	20		
02:49	MP79776-S2	2		
02:55	MP79776-S2	20		
03:01	JB67923-2A	2		(sample used for QC only; not part of login JB67898)
03:07	MP79776-SD1	10		
03:13	JB67923-2A	20		(sample used for QC only; not part of login JB67898)
03:19	MP79776-SD1	100		
03:25	ZZZZZZ	10		
03:31	ZZZZZZ	10		
03:37	MA34145-CCV15	1		
03:43	MA34145-CCB16	1		
03:49	MA34145-CRI4	1		
03:55	MA34145-CRID4	1		
04:01	MA34145-CRIA4	1		
04:07	MA34145-CCV16	1		
----->	Last reportable CCB for job JB67898			
04:13	MA34145-CCB17	1		
04:19	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB67898

Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA060214M1.ICP Date Analyzed: 06/02/14 Methods: EPA 200.7, SW846 6010C
Analyst: ND Run ID: MA34145
Parameters: Al, Sb, As, Ba, Be, Cd, Cr, Co, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, Tl, V, Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
04:25	ZZZZZZ	1		
04:31	ZZZZZZ	1		
04:37	ZZZZZZ	1		
04:43	ZZZZZZ	1		
04:50	ZZZZZZ	1		
04:56	ZZZZZZ	1		
05:02	ZZZZZZ	1		

Refer to raw data for calibration curve and standards.

INTERNAL STANDARD SUMMARY

Login Number: JB67898

Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NYFile ID: SA060214M1.ICP Date Analyzed: 06/02/14 Methods: EPA 200.7, SW846 6010C
Analyst: ND Run ID: MA34145
Parameters: Al, Sb, As, Ba, Be, Cd, Cr, Co, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, Tl, V, Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
11:38	MA34145-STD1	2364 R	171420 R	34966 R	6521 R
11:44	MA34145-STD2	2198	161380	33188	5957
11:50	ZZZZZZ	2270	165220	32931	6159
11:56	ZZZZZZ	2341	171040	34697	6463
12:04	MA34145-ICV1	2271	166940	33922	6176
12:15	MA34145-ICB1	2365	171690	34826	6529
12:20	MA34145-ICCV1	2257	165960	33699	6143
12:30	MA34145-CCB1	2367	171170	35001	6540
12:35	MA34145-CRI1	2320	169410	34359	6386
12:41	MA34145-CRID1	2331	170890	34624	6438
12:48	MA34145-CRIA1	2353	173460	34783	6490
12:54	MA34145-ICSA1	2069	153620	31149	5445
13:00	MA34145-ICSAB1	2054	153260	31018	5422
13:06	ZZZZZZ	2310	169000	33686	6516
13:12	ZZZZZZ	2314	170980	34170	6492
13:18	MA34145-CCV1	2256	165790	33258	6132
13:24	MA34145-CCB2	2354	172400	34025	6503
13:30	MP79668-MB2	2312	171210	34415	6435
13:36	MP79668-B2	2298	169520	33659	6346
13:42	MP79668-S1	No results reported for the elements associated with this internal standard.			
13:48	MP79668-S2	No results reported for the elements associated with this internal standard.			
13:54	JB67344-3	No results reported for the elements associated with this internal standard.			
14:00	MP79668-SD1	No results reported for the elements associated with this internal standard.			
14:06	MP79668-PS1	No results reported for the elements associated with this internal standard.			
14:12	ZZZZZZ	2163	163600	32866	5698
14:18	ZZZZZZ	2249	164900	33779	6031
14:25	MA34145-CCV2	2252	165840	33023	6137
14:30	MA34145-CCB3	2346	170860	34170	6494
14:36	MP79776-MB1	2325	172080	34996	6487
14:42	MP79743A-MB1	2328	171730	34121	6467
14:49	MP79668-S1	2285	169340	33278	6239
14:54	MP79668-S2	2299	168410	33503	6304
15:00	JB67344-3	2312	169980	33886	6345

INTERNAL STANDARD SUMMARY

Login Number: JB67898

Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA060214M1.ICP

Date Analyzed: 06/02/14

Methods: EPA 200.7, SW846 6010C

Analyst: ND

Run ID: MA34145

Parameters: Al, Sb, As, Ba, Be, Cd, Cr, Co, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, Tl, V, Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
15:06	MP79668-SD1	No results reported for the elements associated with this internal standard.			
15:12	ZZZZZZ	6154 !	335650 !	49507 !	14864 !
15:18	ZZZZZZ	2266	168160	33300	6177
15:24	ZZZZZZ	2318	168660	33540	6328
15:30	MA34145-CCV3	2239	164690	32334	6072
15:36	MA34145-CCB4	2335	169180	33949	6438
15:44	MP79668-PS1	2263	162920	33618	6162
15:55	MP79668-SD1	2334	170540	33310	6422
16:05	ZZZZZZ	2004	149820	32873	5164
16:11	MP79773-LC1	2277	171590	34325	6357
16:17	MP79773-MB2	2029	151020	33035	5271
16:23	ZZZZZZ	2330	169810	33422	6410
16:29	ZZZZZZ	2302	168030	32976	6353
16:35	ZZZZZZ	2321	172500	34035	6466
16:41	MA34145-CCV4	2242	166070	32880	6103
16:47	MA34145-CCB5	2338	170170	34098	6445
16:53	ZZZZZZ	2316	169450	33872	6419
16:59	MP79767-S1	2085	162090	33385	6047
17:05	MP79767-S2	2081	161660	33003	6045
17:11	JB67938-1	2121	162730	32662	6120
17:17	MP79767-SD1	2243	168840	33461	6275
17:23	MP79767-PS1	1624 !a	133940	31663	4978
17:29	ZZZZZZ	2435	181020	36440	6005
17:35	ZZZZZZ	2333	169760	33590	6192
17:42	ZZZZZZ	2080	999999 !	33050	6056
17:48	MA34145-CCV5	2244	165920	32797	6110
17:53	MA34145-CCB6	2335	172420	33893	6439
17:59	ZZZZZZ	2358	169840	34157	6491
18:09	MP79767-PS1	2111	160150	32788	6056
18:15	ZZZZZZ	2029	160170	31898	5813
18:21	ZZZZZZ	2266	170370	33186	6199
18:27	ZZZZZZ	2350	172510	33457	6474
18:33	MP79780-MB1	2318	174310	33391	6486

INTERNAL STANDARD SUMMARY

Login Number: JB67898

Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NYFile ID: SA060214M1.ICP Date Analyzed: 06/02/14 Methods: EPA 200.7, SW846 6010C
Analyst: ND Run ID: MA34145
Parameters: Al, Sb, As, Ba, Be, Cd, Cr, Co, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, Tl, V, Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
18:39	MP79780-LC1	No results reported for the elements associated with this internal standard.			
18:45	MP79780-S1	2212	165470	33273	5969
18:51	MP79780-S2	2229	166300	33395	6019
18:57	MA34145-CCV6	2227	165640	32657	6076
19:03	MA34145-CCB7	2323	172280	34034	6425
19:09	JB67852-1	2207	164320	33492	5980
19:15	MP79780-SD1	2292	170980	34094	6347
19:21	ZZZZZZ	2283	999999 !	33640	6352
19:27	ZZZZZZ	2286	171140	33156	6366
19:33	ZZZZZZ	2249	168050	33585	6282
19:39	ZZZZZZ	2258	171650	33720	6293
19:45	ZZZZZZ	2268	169060	33949	6290
19:51	ZZZZZZ	2278	169500	33767	6378
19:57	ZZZZZZ	2084	160090	32991	6068
20:03	MA34145-CCV7	2224	166340	32834	6074
20:09	MA34145-CCB8	2323	170810	33860	6427
20:15	MP79780-LC1	2142	176890	36257	6386
20:21	ZZZZZZ	2123	174660	36156	6378
20:27	MA34145-CRI2	2175	178320	35905	6409
20:33	MA34145-CRID2	2178	175800	36297	6429
20:39	MA34145-CRIA2	2207	178860	36864	6531
20:45	MA34145-ICSA2	1897	155910	32794	5221
20:51	MA34145-ICSAB2	1890	155060	32336	5212
20:57	ZZZZZZ	2068	168090	35076	5976
21:04	MA34145-CCV8	2083	170130	35951	6000
21:11	MA34145-CCB9	2195	179910	37409	6536
21:17	ZZZZZZ	2116	177110	36238	6436
21:17	ZZZZZZ	2116	177110	36238	6436
21:23	ZZZZZZ	2124	178260	999999 !	6530
21:23	ZZZZZZ	2124	178260	999999 !	6530
21:29	ZZZZZZ	2030	173200	36479	6726
21:35	ZZZZZZ	2016	168910	35035	5643
21:41	ZZZZZZ	1968	166280	34423	5504

INTERNAL STANDARD SUMMARY

Login Number: JB67898

Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA060214M1.ICP

Date Analyzed: 06/02/14

Methods: EPA 200.7, SW846 6010C

Analyst: ND

Run ID: MA34145

Parameters: Al, Sb, As, Ba, Be, Cd, Cr, Co, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, Tl, V, Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
21:48	JB67815-12	No results reported for the elements associated with this internal standard.			
21:54	ZZZZZZ	2048	170030	35126	5774
22:00	ZZZZZZ	2209	180750	36619	6349
22:06	MP79732-LC1	2156	177100	36539	6452
22:12	MA34145-CCV9	2107	171160	37336	6101
22:17	MA34145-CCB10	2205	179180	36635	6561
22:23	MP79732-MB1	2201	178730	36670	6555
22:30	MP79732-B1	2098	173270	36332	6244
22:35	MA34145-CCV10	2087	170630	35599	6050
22:41	MA34145-CCB11	2210	179890	36929	6580
22:47	MP79732-S1	1928	153710	36040	5491
22:53	MP79732-S2	1930	168890	35740	5502
22:59	JB67783-1	1985	163480	36449	5690
23:06	MP79732-SD1	2113	172200	36199	6218
23:12	ZZZZZZ	2152	179250	37402	6528
23:18	MP79805-MB1	2147	178390	36496	6483
23:24	MP79805-LC1	2089	174270	36195	6265
23:30	MP79805-LC2	2130	176070	36650	6399
23:35	MP79805-S1	1901	160140	35693	5519
23:42	MA34145-CCV11	2074	170510	35900	6022
23:47	MA34145-CCB12	2173	180240	37244	6495
23:54	MP79805-S2	1907	160470	35465	5532
00:00	JB68057-3	1977	163550	35580	5725
00:06	MP79805-SD1	2114	172020	35995	6263
00:12	ZZZZZZ	1943	161030	35267	5648
00:18	ZZZZZZ	1934	162480	35658	5488
00:24	MP79805-MB2	2183	178120	36690	6514
00:30	MP79781-MB1	2225	178130	36588	6671
00:36	MP79781-LC1	2144	175380	35933	6366
00:42	ZZZZZZ	2191	179840	36642	6568
00:48	MA34145-CCV12	2078	170950	35657	6025
00:54	MA34145-CCB13	2189	178450	36606	6535
01:00	MA34145-CRI3	2164	178990	37184	6470

INTERNAL STANDARD SUMMARY

Login Number: JB67898

Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA060214M1.ICP

Date Analyzed: 06/02/14

Methods: EPA 200.7, SW846 6010C

Analyst: ND

Run ID: MA34145

Parameters: Al, Sb, As, Ba, Be, Cd, Cr, Co, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, Tl, V, Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
01:06	MA34145-CRID3	2189	178480	36852	6575
01:12	MA34145-CRIA3	2162	181130	36501	6471
01:18	MA34145-CCV13	2041	169110	35969	5977
01:24	MA34145-CCB14	2150	176830	37048	6491
01:30	JB67898-4	2089	174370	36025	6358
01:36	ZZZZZZ	2118	177260	36795	6446
01:42	ZZZZZZ	2117	177220	37593	6469
01:48	ZZZZZZ	2093	175890	36624	6403
01:55	ZZZZZZ	2095	175950	36531	6415
02:01	ZZZZZZ	2125	176430	36771	6457
02:07	ZZZZZZ	2111	175340	36608	6429
02:13	ZZZZZZ	2090	176350	36776	6422
02:19	MP79776-B1	1994	167510	36349	6046
02:25	MP79776-S1	1912	166090	34490	6071
02:31	MA34145-CCV14	2003	167800	35896	5925
02:37	MA34145-CCB15	2096	179830	36992	6392
02:43	MP79776-S1	2053	174090	36455	6348
02:49	MP79776-S2	1868	164460	34703	5966
02:55	MP79776-S2	2050	173330	36338	6340
03:01	JB67923-2A	1917	167190	34756	6119
03:07	MP79776-SD1	2042	172190	35662	6350
03:13	JB67923-2A	2059	172850	35891	6332
03:19	MP79776-SD1	2088	176130	37010	6368
03:25	ZZZZZZ	2062	174460	36308	6359
03:31	ZZZZZZ	2056	170700	36062	6308
03:37	MA34145-CCV15	2000	168420	35428	5928
03:43	MA34145-CCB16	2124	177650	36646	6454
03:49	MA34145-CRI4	2098	176300	37046	6331
03:55	MA34145-CRID4	2098	174930	36807	6383
04:01	MA34145-CRIA4	2098	176480	36794	6391
04:07	MA34145-CCV16	2027	166480	35328	6007
04:13	MA34145-CCB17	2105	175510	36645	6395
04:19	ZZZZZZ	2108	167400	32161	5846

INTERNAL STANDARD SUMMARY

Login Number: JB67898
 Account: LANGAN - Langan Engineering & Environmental
 Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA060214M1.ICP Date Analyzed: 06/02/14 Methods: EPA 200.7, SW846 6010C
 Analyst: ND Run ID: MA34145
 Parameters: Al, Sb, As, Ba, Be, Cd, Cr, Co, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, Tl, V, Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
04:25	ZZZZZZ	2106	175070	36222	6408
04:31	ZZZZZZ	2126	178390	37239	6475
04:37	ZZZZZZ	2122	177510	36477	6439
04:43	ZZZZZZ	2127	175900	36882	6469
04:50	ZZZZZZ	2112	176720	34723	6429
04:56	ZZZZZZ	2097	175230	36810	6412
05:02	ZZZZZZ	1893	159240	35392	5592

R = Reference for ISTD limits. ! = Outside limits.

LEGEND:

Istd#	Parameter	Limits
Istd#1	Yttrium (2243)	70-130 %
Istd#2	Yttrium (3600)	70-130 %
Istd#3	Yttrium (3710)	70-130 %
Istd#4	Indium	70-130 %

(a) No samples reported for the elements associated with this internal standard.

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB67898
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA060214M1.ICP
QC Limits: result < RL

Date Analyzed: 06/02/14
Run ID: MA34145

Methods: EPA 200.7, SW846 6010C
Units: ug/l

Time: Sample ID:	RL	IDL	12:15 ICB1 raw	final	12:30 CCB1 raw	final	13:24 CCB2 raw	final	14:30 CCB3 raw	final
Metal										
Aluminum	200	6.7	-0.10	<200	-0.70	<200	-4.8	<200	-7.6	<200
Antimony	6.0	1.3	0.10	<6.0	0.70	<6.0	0.90	<6.0	0.60	<6.0
Arsenic	3.0	1.2	0.20	<3.0	0.50	<3.0	0.30	<3.0	0.70	<5.0
Barium	200	.2	0.10	<200	0.10	<200	0.0	<200	0.0	<200
Beryllium	1.0	.04	0.10	<1.0	0.10	<1.0	0.20	<1.0	0.10	<2.0
Bismuth	20	1.2								
Boron	100	1.2	anr							
Cadmium	3.0	.2	0.10	<3.0	0.10	<3.0	0.0	<3.0	0.0	<3.0
Calcium	5000	8.7	anr							
Chromium	10	.3	0.0	<10	-0.10	<10	0.0	<10	-0.20	<10
Cobalt	50	.4	0.10	<50	0.10	<50	0.10	<50	0.10	<50
Copper	10	.5	-0.50	<10	-0.90	<10	-0.90	<10	-0.90	<10
Iron	100	3.8	2.3	<100	1.4	<100	2.6	<100	3.3	<100
Lead	3.0	1.3	0.20	<3.0	0.30	<3.0	-0.20	<3.0	0.20	<5.0
Lithium	20	.8								
Magnesium	5000	12	anr							
Manganese	15	.04	0.10	<15	0.10	<15	0.20	<15	0.10	<15
Molybdenum	20	.5								
Nickel	10	.7	0.20	<10	0.10	<10	0.0	<10	0.0	<10
Palladium	50	1								
Potassium	10000	17	34.3	<10000	35.8	<10000	13.1	<10000	19.2	<10000
Selenium	10	2	-1.0	<10	-0.60	<10	-1.2	<10	-1.2	<10
Silicon	200	8.4								
Silver	10	.3	0.0	<10	-0.30	<10	-0.40	<10	-0.30	<10
Sodium	10000	7.1	5.8	<10000	11.0	<10000	9.6	<10000	13.2	<10000
Sulfur	50	4.4								
Strontium	10	.09								
Thallium	2.0	1.4	0.30	<2.0	0.30	<2.0	0.0	<2.0	0.50	<5.0
Tin	10	.8	anr							
Titanium	10	.4								
Tungsten	50	11								
Vanadium	50	.3	0.20	<50	0.20	<50	0.20	<50	0.30	<50
Zinc	20	1.5	0.20	<20	-0.20	<20	0.20	<20	0.50	<20

10.2.2 10

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB67898
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA060214M1.ICP Date Analyzed: 06/02/14 Methods: EPA 200.7, SW846 6010C
QC Limits: result < RL Run ID: MA34145 Units: ug/l

Time: Sample ID:			12:15 ICB1		12:30 CCB1		13:24 CCB2		14:30 CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final

Zirconium 10 .6

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB67898
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA060214M1.ICP
QC Limits: result < RL

Date Analyzed: 06/02/14
Run ID: MA34145

Methods: EPA 200.7, SW846 6010C
Units: ug/l

Time: Sample ID:	RL	IDL	15:36 CCB4 raw	final	16:47 CCB5 raw	final	17:53 CCB6 raw	final	19:03 CCB7 raw	final
Metal										
Aluminum	200	6.7	-0.40	<200	-5.3	<200	-10	<200	1.9	<200
Antimony	6.0	1.3	1.4	<6.0	1.6	<6.0	1.8	<6.0	1.7	<6.0
Arsenic	3.0	1.2	0.0	<5.0	0.30	<3.0	0.70	<3.0	0.20	<3.0
Barium	200	.2	0.0	<200	0.0	<200	0.0	<200	0.10	<200
Beryllium	1.0	.04	0.10	<2.0	0.10	<1.0	0.10	<1.0	0.20	<1.0
Bismuth	20	1.2								
Boron	100	1.2	anr							
Cadmium	3.0	.2	0.20	<3.0	0.10	<3.0	0.10	<3.0	-0.10	<3.0
Calcium	5000	8.7	anr							
Chromium	10	.3	0.10	<10	0.20	<10	0.0	<10	0.30	<10
Cobalt	50	.4	0.20	<50	0.0	<50	0.0	<50	-0.10	<50
Copper	10	.5	-1.2	<10	-1.6	<10	-1.5	<10	-1.4	<10
Iron	100	3.8	2.9	<100	2.9	<100	1.9	<100	4.7	<100
Lead	3.0	1.3	-0.30	<5.0	0.30	<3.0	0.60	<3.0	0.40	<3.0
Lithium	20	.8								
Magnesium	5000	12	anr							
Manganese	15	.04	0.20	<15	0.10	<15	0.10	<15	0.20	<15
Molybdenum	20	.5								
Nickel	10	.7	-0.30	<10	-0.10	<10	0.10	<10	0.0	<10
Palladium	50	1								
Potassium	10000	17	4.7	<10000	15.1	<10000	56.2	<10000	22.4	<10000
Selenium	10	2	-0.10	<10	-0.20	<10	-0.70	<10	0.30	<10
Silicon	200	8.4								
Silver	10	.3	-0.40	<10	-0.10	<10	-0.20	<10	-0.20	<10
Sodium	10000	7.1	13.5	<10000	31.4	<10000	32.0	<10000	30.0	<10000
Sulfur	50	4.4								
Strontium	10	.09								
Thallium	2.0	1.4	1.2	<5.0	-0.90	<2.0	0.50	<2.0	0.60	<2.0
Tin	10	.8	anr							
Titanium	10	.4								
Tungsten	50	11								
Vanadium	50	.3	0.30	<50	0.20	<50	0.20	<50	0.60	<50
Zinc	20	1.5	0.50	<20	0.60	<20	0.40	<20	0.50	<20

10.2.2 10

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB67898
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA060214M1.ICP Date Analyzed: 06/02/14 Methods: EPA 200.7, SW846 6010C
QC Limits: result < RL Run ID: MA34145 Units: ug/l

Time:		15:36		16:47		17:53		19:03		
Sample ID:		CCB4		CCB5		CCB6		CCB7		
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final

Zirconium 10 .6

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB67898
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA060214M1.ICP Date Analyzed: 06/02/14 Methods: EPA 200.7, SW846 6010C
QC Limits: result < RL Run ID: MA34145 Units: ug/l

Time: Sample ID:	RL	IDL	20:09 CCB8 raw	final	21:11 CCB9 raw	final	22:17 CCB10 raw	final	22:41 CCB11 raw	final
Metal										
Aluminum	200	6.7	-0.30	<200	-1.1	<200	-2.0	<200	-0.50	<200
Antimony	6.0	1.3	1.2	<6.0	1.2	<6.0	1.8	<6.0	1.2	<6.0
Arsenic	3.0	1.2	0.80	<3.0	-0.40	<3.0	-0.40	<3.0	0.20	<3.0
Barium	200	.2	0.20	<200	0.0	<200	0.0	<200	0.0	<200
Beryllium	1.0	.04	0.20	<1.0	0.20	<1.0	0.20	<1.0	0.20	<1.0
Bismuth	20	1.2								
Boron	100	1.2	anr							
Cadmium	3.0	.2	0.10	<3.0	0.40	<3.0	0.40	<3.0	0.30	<3.0
Calcium	5000	8.7	anr							
Chromium	10	.3	0.10	<10	0.0	<10	0.30	<10	0.10	<10
Cobalt	50	.4	0.20	<50	0.20	<50	0.0	<50	0.10	<50
Copper	10	.5	-1.3	<10	-0.80	<10	-0.80	<10	-0.80	<10
Iron	100	3.8	4.8	<100	4.8	<100	4.0	<100	5.3	<100
Lead	3.0	1.3	0.10	<3.0	0.20	<3.0	-0.30	<3.0	-0.50	<3.0
Lithium	20	.8								
Magnesium	5000	12	anr							
Manganese	15	.04	0.20	<15	0.20	<15	0.20	<15	0.30	<15
Molybdenum	20	.5								
Nickel	10	.7	0.20	<10	-0.80	<10	-0.90	<10	-0.90	<10
Palladium	50	1								
Potassium	10000	17	85.6	<10000	40.9	<10000	64.0	<10000	53.1	<10000
Selenium	10	2	-1.5	<10	1.3	<10	1.4	<10	1.4	<10
Silicon	200	8.4								
Silver	10	.3	0.10	<10	-0.20	<10	-0.10	<10	0.10	<10
Sodium	10000	7.1	23.4	<10000	20.3	<10000	17.7	<10000	18.4	<10000
Sulfur	50	4.4								
Strontium	10	.09								
Thallium	2.0	1.4	0.90	<2.0	0.50	<2.0	0.60	<2.0	0.90	<2.0
Tin	10	.8	anr							
Titanium	10	.4								
Tungsten	50	11								
Vanadium	50	.3	0.40	<50	0.30	<50	0.40	<50	0.40	<50
Zinc	20	1.5	0.60	<20	0.40	<20	0.50	<20	0.30	<20

10.2.2 10

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB67898
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA060214M1.ICP Date Analyzed: 06/02/14 Methods: EPA 200.7, SW846 6010C
QC Limits: result < RL Run ID: MA34145 Units: ug/l

Time: Sample ID:		20:09 CCB8		21:11 CCB9		22:17 CCB10		22:41 CCB11		
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final

Zirconium 10 .6

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB67898
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA060214M1.ICP Date Analyzed: 06/02/14 Methods: EPA 200.7, SW846 6010C
QC Limits: result < RL Run ID: MA34145 Units: ug/l

Time: Sample ID:		23:47 CCB12		00:54 CCB13		01:24 CCB14		02:37 CCB15			
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final	
Aluminum	200	6.7	-3.6	<200	1.7	<200	0.0	<200	2.0	<200	
Antimony	6.0	1.3	1.0	<6.0	0.90	<6.0	0.50	<6.0	-0.10	<500	
Arsenic	3.0	1.2	0.10	<3.0	-0.20	<3.0	-0.10	<3.0	-1.1	<500	
Barium	200	.2	0.0	<200	0.0	<200	0.10	<200	0.10	<1000	
Beryllium	1.0	.04	0.0	<1.0	0.20	<1.0	0.20	<1.0	0.20	<5.0	
Bismuth	20	1.2									
Boron	100	1.2	anr								
Cadmium	3.0	.2	0.30	<3.0	0.30	<3.0	0.60	<3.0	0.60	<5.0	
Calcium	5000	8.7	anr								
Chromium	10	.3	0.10	<10	-0.10	<10	0.10	<10	0.30	<10	
Cobalt	50	.4	0.10	<50	-0.10	<50	0.20	<50	0.40	<50	
Copper	10	.5	-0.40	<10	-0.40	<10	0.90	<10	2.0	<10	
Iron	100	3.8	0.60	<100	3.9	<100	3.6	<100	5.1	<100	
Lead	3.0	1.3	0.0	<3.0	-0.90	<3.0	-0.40	<3.0	-0.40	<500	
Lithium	20	.8									
Magnesium	5000	12	anr								
Manganese	15	.04	0.10	<15	0.20	<15	0.20	<15	0.40	<15	
Molybdenum	20	.5									
Nickel	10	.7	-0.80	<10	-1.1	<10	-0.80	<10	-0.80	<10	
Palladium	50	1									
Potassium	10000	17	27.4	<10000	27.6	<10000	-3.4	<10000	1.0	<10000	
Selenium	10	2	0.0	<10	2.3	<10	0.90	<10	2.3	<500	
Silicon	200	8.4									
Silver	10	.3	0.10	<10	-0.10	<10	0.20	<10	0.0	<10	
Sodium	10000	7.1	27.8	<10000	29.8	<10000	32.1	<10000	29.1	<10000	
Sulfur	50	4.4									
Strontium	10	.09									
Thallium	2.0	1.4	0.40	<2.0	1.2	<2.0	-0.10	<2.0	0.0	<500	
Tin	10	.8	anr								
Titanium	10	.4									
Tungsten	50	11									
Vanadium	50	.3	0.20	<50	0.30	<50	0.30	<50	0.20	<50	
Zinc	20	1.5	0.20	<20	0.30	<20	0.30	<20	0.20	<20	

10.2.2 10

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB67898
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA060214M1.ICP Date Analyzed: 06/02/14 Methods: EPA 200.7, SW846 6010C
QC Limits: result < RL Run ID: MA34145 Units: ug/l

Time: Sample ID:			23:47 CCB12		00:54 CCB13		01:24 CCB14		02:37 CCB15	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final

Zirconium 10 .6

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB67898
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA060214M1.ICP Date Analyzed: 06/02/14 Methods: EPA 200.7, SW846 6010C
QC Limits: result < RL Run ID: MA34145 Units: ug/l

Time: Sample ID:	RL	IDL	03:43 CCB16 raw	final	04:13 CCB17 raw	final
Metal						
Aluminum	200	6.7	3.5	<200	2.9	<200
Antimony	6.0	1.3	-0.70	<500	0.70	<500
Arsenic	3.0	1.2	-0.40	<500	-0.90	<500
Barium	200	.2	0.30	<1000	0.30	<1000
Beryllium	1.0	.04	0.30	<5.0	0.40	<5.0
Bismuth	20	1.2				
Boron	100	1.2	anr			
Cadmium	3.0	.2	0.60	<5.0	0.50	<5.0
Calcium	5000	8.7	anr			
Chromium	10	.3	0.10	<10	0.10	<10
Cobalt	50	.4	0.40	<50	0.20	<50
Copper	10	.5	2.1	<10	2.1	<10
Iron	100	3.8	7.0	<100	6.0	<100
Lead	3.0	1.3	-0.90	<500	-1.5	<500
Lithium	20	.8				
Magnesium	5000	12	anr			
Manganese	15	.04	0.30	<15	0.40	<15
Molybdenum	20	.5				
Nickel	10	.7	-0.80	<10	-1.0	<10
Palladium	50	1				
Potassium	10000	17	9.9	<10000	-2.1	<10000
Selenium	10	2	2.1	<500	2.7	<500
Silicon	200	8.4				
Silver	10	.3	0.10	<10	0.10	<10
Sodium	10000	7.1	32.2	<10000	32.2	<10000
Sulfur	50	4.4				
Strontium	10	.09				
Thallium	2.0	1.4	-0.50	<500	0.80	<500
Tin	10	.8	anr			
Titanium	10	.4				
Tungsten	50	11				
Vanadium	50	.3	0.10	<50	0.10	<50
Zinc	20	1.5	0.20	<20	0.10	<20

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB67898
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA060214M1.ICP Date Analyzed: 06/02/14 Methods: EPA 200.7, SW846 6010C
QC Limits: result < RL Run ID: MA34145 Units: ug/l

Time:		03:43		04:13		
Sample ID:		CCB16		CCB17		
Metal	RL	IDL	raw	final	raw	final

Zirconium 10 .6

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial Continuing Calibration Check

Login Number: JB67898

Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA060214M1.ICP
QC Limits: 95 to 105 % Recovery

Date Analyzed: 06/02/14
Run ID: MA34145

Methods: EPA 200.7, SW846 6010C
Units: ug/l

Time: Sample ID:	ICCV	12:20 ICCV1	
Metal	True	Results	% Rec
Aluminum	40000	39100	97.8
Antimony	2000	1980	99.0
Arsenic	2000	1990	99.5
Barium	2000	1990	99.5
Beryllium	2000	2040	102.0
Bismuth			
Boron	anr		
Cadmium	2000	2000	100.0
Calcium	anr		
Chromium	2000	2020	101.0
Cobalt	2000	2000	100.0
Copper	2000	1960	98.0
Iron	40000	40200	100.5
Lead	2000	2030	101.5
Lithium			
Magnesium	anr		
Manganese	2000	2080	104.0
Molybdenum			
Nickel	2000	2030	101.5
Palladium			
Potassium	40000	39100	97.8
Selenium	2000	1990	99.5
Silicon			
Silver	250	242	96.8
Sodium	40000	39600	99.0
Sulfur			
Strontium			
Thallium	2000	2070	103.5
Tin	anr		
Titanium			
Tungsten			
Vanadium	2000	2080	104.0
Zinc	2000	2040	102.0

10.2.3
10

CALIBRATION CHECK STANDARDS SUMMARY
Initial Continuing Calibration Check

Login Number: JB67898

Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA060214M1.ICP
QC Limits: 95 to 105 % Recovery

Date Analyzed: 06/02/14
Run ID: MA34145

Methods: EPA 200.7, SW846 6010C
Units: ug/l

Time:	12:20
Sample ID:	ICCV
Metal	True
Results	% Rec

Zirconium

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB67898
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA060214M1.ICP Date Analyzed: 06/02/14 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA34145 Units: ug/l

Time: Sample ID:	ICV	12:04 ICV1		CCV	13:18 CCV1		CCV	14:25 CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	39200	98.0	40000	39200	98.0	40000	39000	97.5
Antimony	2000	1990	99.5	2000	1980	99.0	2000	1970	98.5
Arsenic	2000	1990	99.5	2000	1990	99.5	2000	1990	99.5
Barium	2000	1990	99.5	2000	1990	99.5	2000	2000	100.0
Beryllium	2000	2040	102.0	2000	2040	102.0	2000	2050	102.5
Bismuth									
Boron	anr								
Cadmium	2000	1990	99.5	2000	2000	100.0	2000	1990	99.5
Calcium	anr								
Chromium	2000	2010	100.5	2000	2010	100.5	2000	2000	100.0
Cobalt	2000	1990	99.5	2000	2000	100.0	2000	1990	99.5
Copper	2000	1950	97.5	2000	1950	97.5	2000	1960	98.0
Iron	40000	40100	100.3	40000	40200	100.5	40000	40300	100.8
Lead	2000	2010	100.5	2000	2030	101.5	2000	2030	101.5
Lithium									
Magnesium	anr								
Manganese	2000	2090	104.5	2000	2110	105.5	2000	2090	104.5
Molybdenum									
Nickel	2000	2020	101.0	2000	2040	102.0	2000	2030	101.5
Palladium									
Potassium	40000	39100	97.8	40000	39400	98.5	40000	39500	98.8
Selenium	2000	1980	99.0	2000	1990	99.5	2000	1980	99.0
Silicon									
Silver	250	241	96.4	250	242	96.8	250	243	97.2
Sodium	40000	39600	99.0	40000	39900	99.8	40000	40000	100.0
Sulfur									
Strontium									
Thallium	2000	2050	102.5	2000	2060	103.0	2000	2050	102.5
Tin	anr								
Titanium									
Tungsten									
Vanadium	2000	2070	103.5	2000	2090	104.5	2000	2090	104.5
Zinc	2000	2030	101.5	2000	2040	102.0	2000	2030	101.5

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB67898
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA060214M1.ICP Date Analyzed: 06/02/14 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA34145 Units: ug/l

Time:		12:04			13:18			14:25		
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2		
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec	

Zirconium

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB67898
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA060214M1.ICP Date Analyzed: 06/02/14 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA34145 Units: ug/l

Time: Sample ID:	CCV	15:30 CCV3 Results	% Rec	CCV	16:41 CCV4 Results	% Rec	CCV	17:48 CCV5 Results	% Rec
Metal	True			True			True		
Aluminum	40000	39900	99.8	40000	39000	97.5	40000	39000	97.5
Antimony	2000	1960	98.0	2000	1980	99.0	2000	1960	98.0
Arsenic	2000	2010	100.5	2000	2000	100.0	2000	1990	99.5
Barium	2000	1990	99.5	2000	2020	101.0	2000	2000	100.0
Beryllium	2000	2070	103.5	2000	2060	103.0	2000	2060	103.0
Bismuth									
Boron	anr								
Cadmium	2000	2010	100.5	2000	2000	100.0	2000	1990	99.5
Calcium	anr								
Chromium	2000	2020	101.0	2000	1990	99.5	2000	1990	99.5
Cobalt	2000	2000	100.0	2000	1990	99.5	2000	1980	99.0
Copper	2000	1920	96.0	2000	1960	98.0	2000	1940	97.0
Iron	40000	40800	102.0	40000	40800	102.0	40000	40700	101.8
Lead	2000	2070	103.5	2000	2050	102.5	2000	2040	102.0
Lithium									
Magnesium	anr								
Manganese	2000	2150	107.5	2000	2080	104.0	2000	2090	104.5
Molybdenum									
Nickel	2000	2060	103.0	2000	2040	102.0	2000	2040	102.0
Palladium									
Potassium	40000	40300	100.8	40000	39500	98.8	40000	39500	98.8
Selenium	2000	1990	99.5	2000	2000	100.0	2000	1990	99.5
Silicon									
Silver	250	240	96.0	250	243	97.2	250	242	96.8
Sodium	40000	40900	102.3	40000	40200	100.5	40000	40100	100.3
Sulfur									
Strontium									
Thallium	2000	2100	105.0	2000	2080	104.0	2000	2070	103.5
Tin	anr								
Titanium									
Tungsten									
Vanadium	2000	2110	105.5	2000	2090	104.5	2000	2100	105.0
Zinc	2000	2070	103.5	2000	2040	102.0	2000	2040	102.0

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB67898
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA060214M1.ICP Date Analyzed: 06/02/14 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA34145 Units: ug/l

Time:		15:30			16:41			17:48		
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5		
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec	

Zirconium

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB67898
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA060214M1.ICP Date Analyzed: 06/02/14 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA34145 Units: ug/l

Time: Sample ID:	CCV	18:57 CCV6		CCV	20:03 CCV7		CCV	21:04 CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	39000	97.5	40000	38800	97.0	40000	38500	96.3
Antimony	2000	1960	98.0	2000	1970	98.5	2000	2120	106.0
Arsenic	2000	2000	100.0	2000	2000	100.0	2000	2070	103.5
Barium	2000	2010	100.5	2000	2000	100.0	2000	2040	102.0
Beryllium	2000	2060	103.0	2000	2050	102.5	2000	1960	98.0
Bismuth									
Boron	anr								
Cadmium	2000	2000	100.0	2000	1990	99.5	2000	2040	102.0
Calcium	anr								
Chromium	2000	1980	99.0	2000	1970	98.5	2000	1810	90.5
Cobalt	2000	1980	99.0	2000	1980	99.0	2000	1890	94.5
Copper	2000	1950	97.5	2000	1940	97.0	2000	2070	103.5
Iron	40000	40700	101.8	40000	40600	101.5	40000	37700	94.3
Lead	2000	2050	102.5	2000	2050	102.5	2000	1960	98.0
Lithium									
Magnesium	anr								
Manganese	2000	2090	104.5	2000	2070	103.5	2000	1940	97.0
Molybdenum									
Nickel	2000	2040	102.0	2000	2040	102.0	2000	1940	97.0
Palladium									
Potassium	40000	39500	98.8	40000	39400	98.5	40000	39900	99.8
Selenium	2000	1990	99.5	2000	1990	99.5	2000	2100	105.0
Silicon									
Silver	250	243	97.2	250	241	96.4	250	237	94.8
Sodium	40000	40500	101.3	40000	40200	100.5	40000	41300	103.3
Sulfur									
Strontium									
Thallium	2000	2090	104.5	2000	2080	104.0	2000	2070	103.5
Tin	anr								
Titanium									
Tungsten									
Vanadium	2000	2100	105.0	2000	2090	104.5	2000	2000	100.0
Zinc	2000	2040	102.0	2000	2040	102.0	2000	1840	92.0

Login Number: JB67898
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Time:		18:57		20:03		21:04	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV
Metal	True	Results	% Rec	True	Results	% Rec	True
							Results
							% Rec

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB67898
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA060214M1.ICP Date Analyzed: 06/02/14 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA34145 Units: ug/l

Time: Sample ID: Metal	CCV	22:12 CCV9 Results	% Rec	CCV	22:35 CCV10 Results	% Rec	CCV	23:42 CCV11 Results	% Rec
Aluminum	40000	37200	93.0	40000	39200	98.0	40000	38700	96.8
Antimony	2000	2110	105.5	2000	2120	106.0	2000	2140	107.0
Arsenic	2000	2040	102.0	2000	2050	102.5	2000	2050	102.5
Barium	2000	1990	99.5	2000	2100	105.0	2000	2100	105.0
Beryllium	2000	1880	94.0	2000	1990	99.5	2000	1960	98.0
Bismuth									
Boron	anr								
Cadmium	2000	2020	101.0	2000	2030	101.5	2000	2030	101.5
Calcium	anr								
Chromium	2000	1810	90.5	2000	1800	90.0	2000	1800	90.0
Cobalt	2000	1850	92.5	2000	1860	93.0	2000	1870	93.5
Copper	2000	2080	104.0	2000	2080	104.0	2000	2080	104.0
Iron	40000	36500	91.3	40000	38700	96.8	40000	38200	95.5
Lead	2000	1930	96.5	2000	1940	97.0	2000	1920	96.0
Lithium									
Magnesium	anr								
Manganese	2000	1940	97.0	2000	1940	97.0	2000	1900	95.0
Molybdenum									
Nickel	2000	1900	95.0	2000	1910	95.5	2000	1910	95.5
Palladium									
Potassium	40000	38900	97.3	40000	40900	102.3	40000	40300	100.8
Selenium	2000	2070	103.5	2000	2100	105.0	2000	2100	105.0
Silicon									
Silver	250	237	94.8	250	238	95.2	250	237	94.8
Sodium	40000	40200	100.5	40000	42200	105.5	40000	41500	103.8
Sulfur									
Strontium									
Thallium	2000	2030	101.5	2000	2030	101.5	2000	2030	101.5
Tin	anr								
Titanium									
Tungsten									
Vanadium	2000	2000	100.0	2000	2000	100.0	2000	1980	99.0
Zinc	2000	1800	90.0	2000	1810	90.5	2000	1800	90.0

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB67898
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA060214M1.ICP Date Analyzed: 06/02/14 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA34145 Units: ug/l

Time:		22:12			22:35			23:42		
Sample ID:	CCV	CCV9		CCV	CCV10		CCV	CCV11		
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec	

Zirconium

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB67898
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA060214M1.ICP Date Analyzed: 06/02/14 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA34145 Units: ug/l

Time: Sample ID:	CCV	00:48 CCV12		CCV	01:18 CCV13		CCV	02:31 CCV14	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	39100	97.8	40000	38600	96.5	40000	39000	97.5
Antimony	2000	2150	107.5	2000	2190	109.5	2000	2260	113.0*(a)
Arsenic	2000	2070	103.5	2000	2070	103.5	2000	2090	104.5
Barium	2000	2110	105.5	2000	2160	108.0	2000	2190	109.5
Beryllium	2000	1990	99.5	2000	1980	99.0	2000	1990	99.5
Bismuth									
Boron	anr								
Cadmium	2000	2050	102.5	2000	2040	102.0	2000	2080	104.0
Calcium	anr								
Chromium	2000	1820	91.0	2000	1810	90.5	2000	1820	91.0
Cobalt	2000	1880	94.0	2000	1890	94.5	2000	1910	95.5
Copper	2000	2080	104.0	2000	2130	106.5	2000	2190	109.5
Iron	40000	38700	96.8	40000	38400	96.0	40000	37900	94.8
Lead	2000	1940	97.0	2000	1910	95.5	2000	1890	94.5
Lithium									
Magnesium	anr								
Manganese	2000	1920	96.0	2000	1870	93.5	2000	1850	92.5
Molybdenum									
Nickel	2000	1930	96.5	2000	1910	95.5	2000	1900	95.0
Palladium									
Potassium	40000	40800	102.0	40000	40500	101.3	40000	40900	102.3
Selenium	2000	2110	105.5	2000	2140	107.0	2000	2170	108.5
Silicon									
Silver	250	238	95.2	250	240	96.0	250	242	96.8
Sodium	40000	42100	105.3	40000	41700	104.3	40000	41800	104.5
Sulfur									
Strontium									
Thallium	2000	2040	102.0	2000	2020	101.0	2000	2010	100.5
Tin	anr								
Titanium									
Tungsten									
Vanadium	2000	1990	99.5	2000	1980	99.0	2000	1940	97.0
Zinc	2000	1820	91.0	2000	1800	90.0	2000	1780	89.0*(a)

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB67898
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA060214M1.ICP Date Analyzed: 06/02/14 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA34145 Units: ug/l

Time:		00:48		01:18		02:31	
Sample ID:		CCV12		CCV13		CCV14	
Metal	CCV	Results	% Rec	Results	% Rec	Results	% Rec

Zirconium

- (*) Outside of QC limits
- (anr) Analyte not requested
- (a) No samples reported for this element in the area bracketed by this QC.

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB67898
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA060214M1.ICP Date Analyzed: 06/02/14 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA34145 Units: ug/l

Time: Sample ID: Metal	CCV	03:37 CCV15 Results	% Rec	CCV	04:07 CCV16 Results	% Rec
Aluminum	40000	39600	99.0	40000	39700	99.3
Antimony	2000	2260	113.0*(a)	2000	2220	111.0*(a)
Arsenic	2000	2090	104.5	2000	2050	102.5
Barium	2000	2210	110.5*(a)	2000	2230	111.5*(a)
Beryllium	2000	2020	101.0	2000	2030	101.5
Bismuth						
Boron	anr					
Cadmium	2000	2060	103.0	2000	2030	101.5
Calcium	anr					
Chromium	2000	1810	90.5	2000	1830	91.5
Cobalt	2000	1900	95.0	2000	1870	93.5
Copper	2000	2180	109.0	2000	2210	110.5*(a)
Iron	40000	38400	96.0	40000	38300	95.8
Lead	2000	1880	94.0	2000	1840	92.0
Lithium						
Magnesium	anr					
Manganese	2000	1840	92.0	2000	1850	92.5
Molybdenum						
Nickel	2000	1890	94.5	2000	1860	93.0
Palladium						
Potassium	40000	41300	103.3	40000	41600	104.0
Selenium	2000	2180	109.0	2000	2140	107.0
Silicon						
Silver	250	242	96.8	250	244	97.6
Sodium	40000	42300	105.8	40000	42600	106.5
Sulfur						
Strontium						
Thallium	2000	2000	100.0	2000	1970	98.5
Tin	anr					
Titanium						
Tungsten						
Vanadium	2000	1930	96.5	2000	1950	97.5
Zinc	2000	1770	88.5*(a)	2000	1740	87.0*(a)

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB67898
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA060214M1.ICP Date Analyzed: 06/02/14 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA34145 Units: ug/l

Time:		03:37			04:07		
Sample ID:	CCV	CCV15		CCV	CCV16		
Metal	True	Results	% Rec	True	Results	% Rec	

Zirconium

- (*) Outside of QC limits
(anr) Analyte not requested
(a) No samples reported for this element in the area bracketed by this QC.

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JB67898
 Account: LANGAN - Langan Engineering & Environmental
 Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA060214M1.ICP Date Analyzed: 06/02/14 Methods: EPA 200.7, SW846 6010C
 QC Limits: 70 to 130 % Recovery Run ID: MA34145 Units: ug/l

Time: Sample ID:	CRI	CRIA	CRID	12:35 CRI1	% Rec	12:41 CRID1	% Rec	12:48 CRIA1	% Rec
Metal	True	True	True	Results		Results		Results	
Aluminum	200	500	100	205	102.5	99.0	99.0	496	99.2
Antimony	6.0	20	3.0	6.8	113.3	3.7	123.3	20.0	100.0
Arsenic	8.0	20	3.0	8.3	103.8	3.2	106.7	21.0	105.0
Barium	200		4.0	201	100.5	3.8	95.0		
Beryllium	2.0		1.0	2.2	110.0	1.0	100.0		
Bismuth	20								
Boron	100		10	anr					
Cadmium	3.0		1.0	3.3	110.0	1.1	110.0		
Calcium	5000		1000	anr					
Chromium	10		2.0	10.7	107.0	2.0	100.0		
Cobalt	50		3.0	52.1	104.2	3.3	110.0		
Copper	10		2.0	9.2	92.0	1.5	75.0		
Iron	100	500		109	109.0			531	106.2
Lead	3.0	20	2.5	2.6	86.7	2.5	100.0	20.3	101.5
Lithium	20								
Magnesium	5000		100	anr					
Manganese	15		3.0	16.7	111.3	3.3	110.0		
Molybdenum	20								
Nickel	10		4.0	11.2	112.0	4.3	107.5		
Palladium	50								
Potassium	5000		2000	5070	101.4	2040	102.0		
Selenium	10	20	5.0	9.8	98.0	5.5	110.0	21.3	106.5
Silicon	200								
Silver	5.0		1.0	4.9	98.0	1.2	120.0		
Sodium	5000		1000	5100	102.0	1040	104.0		
Sulfur	50								
Strontium	10								
Thallium	10		2.0	10.8	108.0	2.3	115.0		
Tin	10			anr					
Titanium	10								
Tungsten	50								
Vanadium	50		2.0	55.5	111.0	2.1	105.0		
Zinc	20		10	21.8	109.0				

10.2.5
10

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JB67898
 Account: LANGAN - Langan Engineering & Environmental
 Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA060214M1.ICP Date Analyzed: 06/02/14 Methods: EPA 200.7, SW846 6010C
 QC Limits: 70 to 130 % Recovery Run ID: MA34145 Units: ug/l

Time:				12:35		12:41		12:48	
Sample ID:	CRI	CRIA	CRID	CRI1		CRID1		CRIA1	
Metal	True	True	True	Results	% Rec	Results	% Rec	Results	% Rec

Zirconium 10 5.0

(*) Outside of QC limits
 (anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JB67898
 Account: LANGAN - Langan Engineering & Environmental
 Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA060214M1.ICP Date Analyzed: 06/02/14 Methods: EPA 200.7, SW846 6010C
 QC Limits: 70 to 130 % Recovery Run ID: MA34145 Units: ug/l

Time: Sample ID:	CRI	CRIA	CRID	20:27 CRI2	% Rec	20:33 CRID2	% Rec	20:39 CRIA2	% Rec
Metal	True	True	True	Results		Results		Results	
Aluminum	200	500	100	207	103.5	99.7	99.7	498	99.6
Antimony	6.0	20	3.0	7.2	120.0			21.3	106.5
Arsenic	8.0	20	3.0	8.9	111.3	3.5	116.7	20.5	102.5
Barium	200		4.0	214	107.0	4.0	100.0		
Beryllium	2.0		1.0	2.2	110.0	0.90	90.0		
Bismuth	20								
Boron	100		10	anr					
Cadmium	3.0		1.0	3.5	116.7	1.2	120.0		
Calcium	5000		1000	anr					
Chromium	10		2.0	9.4	94.0	1.8	90.0		
Cobalt	50		3.0	48.6	97.2	2.9	96.7		
Copper	10		2.0	8.9	89.0				
Iron	100	500		105	105.0			508	101.6
Lead	3.0	20	2.5	3.2	106.7	2.6	104.0	19.9	99.5
Lithium	20								
Magnesium	5000		100	anr					
Manganese	15		3.0	15.3	102.0	3.1	103.3		
Molybdenum	20								
Nickel	10		4.0	9.6	96.0	3.4	85.0		
Palladium	50								
Potassium	5000		2000	5370	107.4	2160	108.0		
Selenium	10	20	5.0	11.8	118.0	6.2	124.0	22.4	112.0
Silicon	200								
Silver	5.0		1.0	4.6	92.0	0.90	90.0		
Sodium	5000		1000	5510	110.2	1120	112.0		
Sulfur	50								
Strontium	10								
Thallium	10		2.0	11.0	110.0	2.1	105.0		
Tin	10			anr					
Titanium	10								
Tungsten	50								
Vanadium	50		2.0	52.0	104.0	2.3	115.0		
Zinc	20		10	19.6	98.0	13.0	130.0		

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JB67898

Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA060214M1.ICP Date Analyzed: 06/02/14 Methods: EPA 200.7, SW846 6010C
QC Limits: 70 to 130 % Recovery Run ID: MA34145 Units: ug/l

Time:				20:27		20:33		20:39	
Sample ID:	CRI	CRIA	CRID	CRI2	% Rec	CRID2	% Rec	CRIA2	% Rec
Metal	True	True	True	Results		Results		Results	

Zirconium 10 5.0

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JB67898
 Account: LANGAN - Langan Engineering & Environmental
 Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA060214M1.ICP Date Analyzed: 06/02/14 Methods: EPA 200.7, SW846 6010C
 QC Limits: 70 to 130 % Recovery Run ID: MA34145 Units: ug/l

Time: Sample ID:	CRI	CRIA	CRID	01:00 CRI3	% Rec	01:06 CRID3	% Rec	01:12 CRIA3	% Rec
Metal	True	True	True	Results		Results		Results	
Aluminum	200	500	100	197	98.5	99.1	99.1	497	99.4
Antimony	6.0	20	3.0	7.1	118.3			22.4	112.0
Arsenic	8.0	20	3.0	9.0	112.5	2.8	93.3	19.7	98.5
Barium	200		4.0	212	106.0	4.2	105.0		
Beryllium	2.0		1.0	2.1	105.0	1.0	100.0		
Bismuth	20								
Boron	100		10	anr					
Cadmium	3.0		1.0	3.6	120.0	1.1	110.0		
Calcium	5000		1000	anr					
Chromium	10		2.0	9.5	95.0	1.8	90.0		
Cobalt	50		3.0	48.1	96.2	3.0	100.0		
Copper	10		2.0	10.0	100.0	2.1	105.0		
Iron	100	500		103	103.0			519	103.8
Lead	3.0	20	2.5	2.2	73.3	1.9	76.0	19.0	95.0
Lithium	20								
Magnesium	5000		100	anr					
Manganese	15		3.0	15.0	100.0	3.0	100.0		
Molybdenum	20								
Nickel	10		4.0	9.0	90.0	2.9	72.5		
Palladium	50								
Potassium	5000		2000	5190	103.8	2100	105.0		
Selenium	10	20	5.0	11.0	110.0	6.0	120.0	25.6	128.0
Silicon	200								
Silver	5.0		1.0	5.0	100.0	0.70	70.0		
Sodium	5000		1000	5330	106.6	1110	111.0		
Sulfur	50								
Strontium	10								
Thallium	10		2.0	11.6	116.0	2.5	125.0		
Tin	10			anr					
Titanium	10								
Tungsten	50								
Vanadium	50		2.0	52.0	104.0	1.9	95.0		
Zinc	20		10	18.8	94.0	12.4	124.0		

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JB67898
 Account: LANGAN - Langan Engineering & Environmental
 Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA060214M1.ICP Date Analyzed: 06/02/14 Methods: EPA 200.7, SW846 6010C
 QC Limits: 70 to 130 % Recovery Run ID: MA34145 Units: ug/l

Time:				01:00		01:06		01:12	
Sample ID:	CRI	CRIA	CRID	CRI3	% Rec	CRID3	% Rec	CRIA3	% Rec
Metal	True	True	True	Results		Results		Results	

Zirconium 10 5.0

(*) Outside of QC limits
 (anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JB67898
 Account: LANGAN - Langan Engineering & Environmental
 Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA060214M1.ICP Date Analyzed: 06/02/14 Methods: EPA 200.7, SW846 6010C
 QC Limits: 70 to 130 % Recovery Run ID: MA34145 Units: ug/l

Time: Sample ID:	CRI	CRIA	CRID	03:49 CRI4	% Rec	03:55 CRID4	% Rec	04:01 CRIA4	% Rec
Metal	True	True	True	Results		Results		Results	
Aluminum	200	500	100	205	102.5	100	100.0	496	99.2
Antimony	6.0	20	3.0	6.7	111.7	2.9	96.7	22.4	112.0
Arsenic	8.0	20	3.0	8.9	111.3	2.2	73.3	20.3	101.5
Barium	200		4.0	216	108.0	4.4	110.0		
Beryllium	2.0		1.0	2.2	110.0	1.0	100.0		
Bismuth	20								
Boron	100		10	anr					
Cadmium	3.0		1.0	3.6	120.0				
Calcium	5000		1000	anr					
Chromium	10		2.0	9.6	96.0	1.8	90.0		
Cobalt	50		3.0	49.6	99.2	3.0	100.0		
Copper	10		2.0	12.4	124.0				
Iron	100	500		103	103.0			500	100.0
Lead	3.0	20	2.5	2.9	96.7			17.8	89.0
Lithium	20								
Magnesium	5000		100	anr					
Manganese	15		3.0	14.8	98.7	3.0	100.0		
Molybdenum	20								
Nickel	10		4.0	9.0	90.0	2.9	72.5		
Palladium	50								
Potassium	5000		2000	5150	103.0	2080	104.0		
Selenium	10	20	5.0	12.6	126.0			24.2	121.0
Silicon	200								
Silver	5.0		1.0	5.1	102.0	1.0	100.0		
Sodium	5000		1000	5250	105.0	1100	110.0		
Sulfur	50								
Strontium	10								
Thallium	10		2.0	10.3	103.0	2.1	105.0		
Tin	10			anr					
Titanium	10								
Tungsten	50								
Vanadium	50		2.0	51.1	102.2	1.7	85.0		
Zinc	20		10	18.9	94.5	12.3	123.0		

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JB67898
 Account: LANGAN - Langan Engineering & Environmental
 Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA060214M1.ICP Date Analyzed: 06/02/14 Methods: EPA 200.7, SW846 6010C
 QC Limits: 70 to 130 % Recovery Run ID: MA34145 Units: ug/l

Time:				03:49		03:55		04:01	
Sample ID:	CRI	CRIA	CRID	CRI4		CRID4		CRIA4	
Metal	True	True	True	Results	% Rec	Results	% Rec	Results	% Rec

Zirconium 10 5.0

(*) Outside of QC limits
 (anr) Analyte not requested

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: JB67898
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA060214M1.ICP Date Analyzed: 06/02/14 Methods: EPA 200.7, SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA34145 Units: ug/l

Time: Sample ID:	ICSA True	ICSAB True	12:54 ICSA1 Results	% Rec	13:00 ICSAB1 Results	% Rec	20:45 ICSA2 Results	% Rec	20:51 ICSAB2 Results	% Rec
Metal										
Aluminum	500000	500000	516000	103.2	515000	103.0	525000	105.0	529000	105.8
Antimony		1000	7.7		1020	102.0	5.7		1090	109.0
Arsenic		1000	0.40		1060	106.0	1.7		1090	109.0
Barium		500	-0.40		515	103.0	-0.60		555	111.0
Beryllium		500	0.0		516	103.2	0.0		513	102.6
Bismuth		500	2.9		556	111.2	-0.10		612	122.4
Boron			-0.60		5.7		0.30		6.5	
Cadmium		1000	-1.1		1010	101.0	-1.4		1030	103.0
Calcium	400000	400000	396000	99.0	393000	98.3	363000	90.8	367000	91.8
Chromium		500	-1.4		466	93.2	-1.1		418	83.6
Cobalt		500	0.40		477	95.4	0.90		451	90.2
Copper		500	7.6		532	106.4	8.5		572	114.4
Iron	200000	200000	199000	99.5	197000	98.5	193000	96.5	192000	96.0
Lead		1000	-3.5		947	94.7	1.2		900	90.0
Lithium		500	2.6		558	111.6	2.7		622	124.4
Magnesium	500000	500000	563000	112.6	574000	114.8	529000	105.8	544000	108.8
Manganese		500	-0.60		503	100.6	-2.3		460	92.0
Molybdenum		500	-5.3		490	98.0	-5.8		501	100.2
Nickel		1000	-1.0		965	96.5	-1.6		915	91.5
Palladium		500	14.5		541	108.2	16.2		572	114.4
Potassium			88.8		81.1		158		118	
Selenium		1000	6.2		1070	107.0	-0.70		1110	111.0
Silicon			12.8		3.9		3.2		-5.5	
Silver		1000	3.9		1030	103.0	-4.2		1030	103.0
Sodium			37.7		39.8		35.7		42.3	
Sulfur		500	-78		435	87.0	-80		442	88.4
Strontium			-6.4		-6.3		-4.2		-4.3	
Thallium		1000	0.90		957	95.7	-2.8		928	92.8
Tin			0.70		-0.80		1.6		1.5	
Titanium			0.30		0.20		0.20		0.10	
Tungsten		500	-2.6		552	110.4	-5.9		548	109.6
Vanadium		500	0.0		482	96.4	0.40		458	91.6
Zinc		1000	-0.20		955	95.5	-0.60		858	85.8

10.2.6
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INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: JB67898
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA060214M1.ICP Date Analyzed: 06/02/14 Methods: EPA 200.7, SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA34145 Units: ug/l

Time:				12:54			13:00			20:45			20:51
Sample ID:	ICSAB	ICSAB	ICSAB	ICSAB1	% Rec	Results	% Rec	Results	% Rec	Results	% Rec	Results	ICSAB2
Metal	True	True	True	Results	% Rec	Results	% Rec	Results	% Rec	Results	% Rec	Results	% Rec

Zirconium	500	-3.3		588	117.6	-4.1		572	114.4

(*) Outside of QC limits
(anr) Analyte not requested

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB67898

Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA060314M1.ICP

Date Analyzed: 06/03/14

Methods: EPA 200.7, SW846 6010C

Analyst: GT

Run ID: MA34154

Parameters: Sb,Ca,Mg,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
18:31	MA34154-STD1	1		STDA
18:37	MA34154-STD2	1		STDB
18:43	ZZZZZZ	1		
18:49	ZZZZZZ	1		
18:56	MA34154-ICV1	1		
19:05	MA34154-ICB1	1		
19:11	MA34154-ICCV1	1		
19:22	MA34154-CCB1	1		
19:27	MA34154-CRI1	1		
19:33	MA34154-CRID1	1		
19:39	MA34154-CRIA1	1		
19:45	ZZZZZZ	15		
19:51	MA34154-ICSA1	1		
19:58	MA34154-ICSAB1	1		
20:04	ZZZZZZ	1		
20:10	ZZZZZZ	1		
20:16	MA34154-CCV1	1		
20:22	MA34154-CCB2	1		
20:28	ZZZZZZ	1		
20:34	ZZZZZZ	1		
20:40	ZZZZZZ	20		
20:46	MP79805-MB1	1		
20:52	MP79805-MB2	1		
20:58	MP79805-LC1	1		
21:04	MP79805-LC2	1		
21:10	MP79805-S1	1		
21:16	MP79805-S2	1		
21:22	MA34154-CCV2	1		
21:28	MA34154-CCB3	1		
21:34	JB68057-3	1		(sample used for QC only; not part of login JB67898)
21:40	MP79805-SD1	5		
21:46	ZZZZZZ	1		
21:52	MP79805-S1	5		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB67898

Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA060314M1.ICP
Analyst: GT
Parameters: Sb,Ca,Mg,Zn

Date Analyzed: 06/03/14
Run ID: MA34154

Methods: EPA 200.7, SW846 6010C

Time	Sample Description	Dilution Factor	PS Recov	Comments
21:58	MP79805-S2	5		
22:04	JB68057-3	5		(sample used for QC only; not part of login JB67898)
22:10	MP79805-SD1	25		
22:16	ZZZZZZ	1		
22:22	ZZZZZZ	1		
22:28	MA34154-CCV3	1		
22:34	MA34154-CCB4	1		
22:40	ZZZZZZ	1		
22:46	ZZZZZZ	1		
22:52	MP79732-S1	1		
22:58	MP79732-S2	1		
23:04	JB67783-1	1		(sample used for QC only; not part of login JB67898)
23:10	MP79732-SD1	5		
23:16	MP79781-MB1	1		
23:22	MP79781-LC1	1		
23:28	ZZZZZZ	1		
23:34	MA34154-CCV4	1		
23:40	MA34154-CCB5	1		
23:46	JB67898-4	1		
----->	Last reportable sample/prep for job JB67898			
23:52	ZZZZZZ	1		
23:58	ZZZZZZ	1		
00:04	ZZZZZZ	1		
00:10	ZZZZZZ	1		
00:16	ZZZZZZ	1		
00:22	ZZZZZZ	1		
00:28	ZZZZZZ	1		
00:34	ZZZZZZ	1		
00:40	MA34154-CCV5	1		
00:46	MA34154-CCB6	1		
00:52	ZZZZZZ	1		
00:58	ZZZZZZ	1		
01:04	MP79672-MB4	1		
01:10	MP79672-LC2	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB67898

Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA060314M1.ICP
Analyst: GT
Parameters: Sb,Ca,Mg,Zn

Date Analyzed: 06/03/14
Run ID: MA34154

Methods: EPA 200.7, SW846 6010C

Time	Sample Description	Dilution Factor	PS Recov	Comments
01:16	ZZZZZZ	1		
01:22	ZZZZZZ	1		
01:28	MP79718-MB1	1		
01:34	MP79718-B1	1		
01:40	ZZZZZZ	1		
01:46	MA34154-CCV6	1		
01:52	MA34154-CCB7	1		
01:58	MA34154-CRI2	1		
02:04	MA34154-CRID2	1		
02:10	MA34154-CRIA2	1		
02:16	MA34154-ICSA2	1		
02:22	MA34154-ICSAB2	1		
02:29	MA34154-CCV7	1		
02:34	MA34154-CCB8	1		
02:41	ZZZZZZ	1		
02:47	ZZZZZZ	1		
02:52	ZZZZZZ	1		
02:59	ZZZZZZ	1		
03:05	ZZZZZZ	1		
03:11	ZZZZZZ	5		
03:17	ZZZZZZ	1		
03:23	ZZZZZZ	1		
03:29	ZZZZZZ	1		
03:35	ZZZZZZ	1		
03:41	ZZZZZZ	1		
03:47	ZZZZZZ	1		
03:53	ZZZZZZ	1		
03:59	ZZZZZZ	1		
04:05	ZZZZZZ	1		
04:11	ZZZZZZ	1		
04:17	ZZZZZZ	1		
04:23	ZZZZZZ	1		
04:29	ZZZZZZ	1		

----->

Last reportable CCB for job JB67898

10.3
10

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB67898

Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA060314M1.ICP
Analyst: GT
Parameters: Sb,Ca,Mg,Zn

Date Analyzed: 06/03/14
Run ID: MA34154

Methods: EPA 200.7, SW846 6010C

Time	Sample Description	Dilution Factor	PS Recov	Comments
04:35	ZZZZZZ	1		
04:41	ZZZZZZ	1		
04:47	ZZZZZZ	1		
04:53	ZZZZZZ	1		
06:17	ZZZZZZ	1		
06:24	ZZZZZZ	1		

Refer to raw data for calibration curve and standards.

INTERNAL STANDARD SUMMARY

Login Number: JB67898

Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA060314M1.ICP

Date Analyzed: 06/03/14

Methods: EPA 200.7, SW846 6010C

Analyst: GT

Run ID: MA34154

Parameters: Sb,Ca,Mg,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
18:31	MA34154-STD1	2161 R	161450 R	31100 R	5831 R
18:37	MA34154-STD2	2025	151990	29737	5406
18:43	ZZZZZZ	2063	156820	30110	5513
18:49	ZZZZZZ	2130	165670	30889	5755
18:56	MA34154-ICV1	2050	154460	29926	5475
19:05	MA34154-ICB1	2114	159690	30770	5717
19:11	MA34154-ICCV1	2061	155630	30345	5507
19:22	MA34154-CCB1	2140	153140	30978	5777
19:27	MA34154-CRI1	2123	158150	30497	5721
19:33	MA34154-CRID1	2129	158800	30755	5754
19:39	MA34154-CRIA1	2139	160530	29667	5772
19:45	ZZZZZZ	2128	160560	30451	5733
19:51	MA34154-ICSA1	1878	142970	27619	4873
19:58	MA34154-ICSAB1	1914	144010	28274	4963
20:04	ZZZZZZ	2097	157120	30209	5813
20:10	ZZZZZZ	2109	999999 !	30989	5766
20:16	MA34154-CCV1	2062	154970	29905	5501
20:22	MA34154-CCB2	2132	159930	30576	5741
20:28	ZZZZZZ	2128	999999 !	30469	5732
20:34	ZZZZZZ	2124	163120	29766	5753
20:40	ZZZZZZ	2139	163580	31048	5662
20:46	MP79805-MB1	2119	163760	30543	5684
20:52	MP79805-MB2	2140	159010	30560	5752
20:58	MP79805-LC1	2117	155240	30533	5724
21:04	MP79805-LC2	2114	160620	30908	5727
21:10	MP79805-S1	1951	149050	999999 !	5167
21:16	MP79805-S2	1937	140510	28736	5136
21:22	MA34154-CCV2	2045	154040	29826	5459
21:28	MA34154-CCB3	2109	160920	30599	5667
21:34	JB68057-3	1983	150510	999999 !	5243
21:40	MP79805-SD1	2095	158490	30492	5621
21:46	ZZZZZZ	1958	151420	29842	5084
21:52	MP79805-S1	2125	159860	30510	5698

INTERNAL STANDARD SUMMARY

Login Number: JB67898

Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA060314M1.ICP

Date Analyzed: 06/03/14

Methods: EPA 200.7, SW846 6010C

Analyst: GT

Run ID: MA34154

Parameters: Sb,Ca,Mg,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
21:58	MP79805-S2	2104	999999 !	999999 !	5653
22:04	JB68057-3	2110	157000	30653	5667
22:10	MP79805-SD1	2145	164370	31410	5779
22:16	ZZZZZZ	2154	159780	30000	5809
22:22	ZZZZZZ	2068	156520	29711	5709
22:28	MA34154-CCV3	2064	153940	29759	5484
22:34	MA34154-CCB4	2128	168700	30722	5705
22:40	ZZZZZZ	2030	154500	29596	5555
22:46	ZZZZZZ	2162	156860	999999 !	5834
22:52	MP79732-S1	1923	148030	999999 !	5011
22:58	MP79732-S2	1950	148690	29742	5091
23:04	JB67783-1	1987	150380	30582	5206
23:10	MP79732-SD1	2095	156220	999999 !	5596
23:16	MP79781-MB1	2137	162250	30796	5772
23:22	MP79781-LC1	2120	159910	30013	5718
23:28	ZZZZZZ	2160	158430	30866	5828
23:34	MA34154-CCV4	2048	153210	29589	5450
23:40	MA34154-CCB5	2169	161540	30747	5828
23:46	JB67898-4	2143	164630	30650	5791
23:52	ZZZZZZ	2194	153180	999999 !a	5916
23:58	ZZZZZZ	2122	159700	30622	5743
00:04	ZZZZZZ	2137	161050	30931	5769
00:10	ZZZZZZ	2164	151330	30840	5831
00:16	ZZZZZZ	2101	159690	30826	5687
00:22	ZZZZZZ	2166	159960	30768	5839
00:28	ZZZZZZ	999999 !a	162670	999999 !a	999999 !a
00:34	ZZZZZZ	2144	162100	31325	5810
00:40	MA34154-CCV5	2053	154710	29656	5477
00:46	MA34154-CCB6	2171	161570	29950	5837
00:52	ZZZZZZ	2093	157720	999999 !	5668
00:58	ZZZZZZ	1976	148290	29726	4966
01:04	MP79672-MB4	2132	160910	30467	5813
01:10	MP79672-LC2	2110	158590	30527	5748

INTERNAL STANDARD SUMMARY

Login Number: JB67898

Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA060314M1.ICP

Date Analyzed: 06/03/14

Methods: EPA 200.7, SW846 6010C

Analyst: GT

Run ID: MA34154

Parameters: Sb,Ca,Mg,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
01:16	ZZZZZZ	2135	161770	30927	5778
01:22	ZZZZZZ	2115	160840	31463	5757
01:28	MP79718-MB1	2110	159440	30120	5749
01:34	MP79718-B1	2097	159370	30111	5719
01:40	ZZZZZZ	2103	160280	29748	5740
01:46	MA34154-CCV6	2061	154740	29618	5513
01:52	MA34154-CCB7	2124	159140	30262	5740
01:58	MA34154-CRI2	2112	159630	30456	5713
02:04	MA34154-CRID2	2138	160670	30266	5781
02:10	MA34154-CRIA2	2157	162740	30867	5825
02:16	MA34154-ICSA2	1879	144020	27749	4883
02:22	MA34154-ICSAB2	1890	144380	27451	4928
02:29	MA34154-CCV7	2010	153630	29308	5385
02:34	MA34154-CCB8	2134	160050	30394	5770
02:41	ZZZZZZ	2139	160590	30217	5801
02:47	ZZZZZZ	2129	161240	30112	5794
02:52	ZZZZZZ	1882	142110	29149	4866
02:59	ZZZZZZ	1877	145490	29159	4857
03:05	ZZZZZZ	1901	144820	29008	4899
03:11	ZZZZZZ	2037	999999 !	29646	5430
03:17	ZZZZZZ	2053	155650	29456	5481
03:23	ZZZZZZ	2147	999999 !	30264	5789
03:29	ZZZZZZ	2117	999999 !	30224	5716
03:35	ZZZZZZ	2141	159320	30161	5777
03:41	ZZZZZZ	2162	160570	30410	5834
03:47	ZZZZZZ	2074	154590	999999 !	5532
03:53	ZZZZZZ	2169	160270	30386	5847
03:59	ZZZZZZ	2128	161540	30418	5753
04:05	ZZZZZZ	2144	161370	999999 !	5786
04:11	ZZZZZZ	2188	160770	30190	5887
04:17	ZZZZZZ	2131	160690	30138	5740
04:23	ZZZZZZ	2175	154930	27131	5511
04:29	ZZZZZZ	2129	156260	31833	5746

INTERNAL STANDARD SUMMARY

Login Number: JB67898
 Account: LANGAN - Langan Engineering & Environmental
 Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA060314M1.ICP Date Analyzed: 06/03/14 Methods: EPA 200.7, SW846 6010C
 Analyst: GT Run ID: MA34154
 Parameters: Sb,Ca,Mg,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
04:35	ZZZZZZ	2146	160830	30326	5775
04:41	ZZZZZZ	2126	159910	30392	5747
04:47	ZZZZZZ	2066	155160	28938	5511
04:53	ZZZZZZ	2165	162390	30589	5841
06:17	ZZZZZZ	2111	159610	30286	5715
06:24	ZZZZZZ	2065	999999 !	29487	5528

R = Reference for ISTD limits. ! = Outside limits.

LEGEND:

Istd#	Parameter	Limits
Istd#1	Yttrium (2243)	70-130 %
Istd#2	Yttrium (3600)	70-130 %
Istd#3	Yttrium (3710)	70-130 %
Istd#4	Indium	70-130 %

(a) No samples reported for the elements associated with this internal standard.

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB67898
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA060314M1.ICP Date Analyzed: 06/03/14 Methods: EPA 200.7, SW846 6010C
QC Limits: result < RL Run ID: MA34154 Units: ug/l

Time: Sample ID:	19:05 ICB1	19:22 CCB1	20:22 CCB2	21:28 CCB3						
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	6.7	anr							
Antimony	6.0	1.3	0.90	<6.0	0.80	<6.0	1.2	<6.0	1.4	<6.0
Arsenic	3.0	1.2	anr							
Barium	200	.2	anr							
Beryllium	1.0	.04	anr							
Bismuth	20	1.2								
Boron	100	1.2								
Cadmium	3.0	.2	anr							
Calcium	5000	8.7	-0.60	<5000	-2.2	<5000	4.1	<5000	7.2	<5000
Chromium	10	.3	anr							
Cobalt	50	.4	anr							
Copper	10	.5	anr							
Iron	100	3.8	anr							
Lead	3.0	1.3	anr							
Lithium	20	.8								
Magnesium	5000	12	5.1	<5000	4.4	<5000	-4.2	<5000	12.4	<5000
Manganese	15	.04	anr							
Molybdenum	20	.5								
Nickel	10	.7	anr							
Palladium	50	1								
Potassium	10000	17	anr							
Selenium	10	2	anr							
Silicon	200	8.4								
Silver	10	.3	anr							
Sodium	10000	7.1	anr							
Sulfur	50	4.4								
Strontium	10	.09								
Thallium	2.0	1.4	anr							
Tin	10	.8								
Titanium	10	.4								
Tungsten	50	11								
Vanadium	50	.3	anr							
Zinc	20	1.5	-0.20	<20	-0.20	<20	0.80	<20	0.80	<20

10.3.2
10

BLANK RESULTS SUMMARY
 Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB67898
 Account: LANGAN - Langan Engineering & Environmental
 Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA060314M1.ICP Date Analyzed: 06/03/14 Methods: EPA 200.7, SW846 6010C
 QC Limits: result < RL Run ID: MA34154 Units: ug/l

Time: Sample ID:			19:05 ICB1		19:22 CCB1		20:22 CCB2		21:28 CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final

Zirconium 10 .6

(*) Outside of QC limits
 (anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB67898
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA060314M1.ICP Date Analyzed: 06/03/14 Methods: EPA 200.7, SW846 6010C
QC Limits: result < RL Run ID: MA34154 Units: ug/l

Time: Sample ID:			22:34 CCB4		23:40 CCB5		00:46 CCB6		01:52 CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	6.7	anr							
Antimony	6.0	1.3	1.0	<500	1.1	<6.0	0.60	<6.0	0.60	<500
Arsenic	3.0	1.2	anr							
Barium	200	.2	anr							
Beryllium	1.0	.04	anr							
Bismuth	20	1.2								
Boron	100	1.2								
Cadmium	3.0	.2	anr							
Calcium	5000	8.7	3.9	<10000	2.8	<5000	6.2	<5000	7.7	<10000
Chromium	10	.3	anr							
Cobalt	50	.4	anr							
Copper	10	.5	anr							
Iron	100	3.8	anr							
Lead	3.0	1.3	anr							
Lithium	20	.8								
Magnesium	5000	12	2.1	<10000	10.3	<5000	8.3	<5000	12.4	<10000
Manganese	15	.04	anr							
Molybdenum	20	.5								
Nickel	10	.7	anr							
Palladium	50	1								
Potassium	10000	17	anr							
Selenium	10	2	anr							
Silicon	200	8.4								
Silver	10	.3	anr							
Sodium	10000	7.1	anr							
Sulfur	50	4.4								
Strontium	10	.09								
Thallium	2.0	1.4	anr							
Tin	10	.8								
Titanium	10	.4								
Tungsten	50	11								
Vanadium	50	.3	anr							
Zinc	20	1.5	0.80	<20	0.80	<20	0.90	<20	0.60	<20

10.3.2 10

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB67898
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA060314M1.ICP Date Analyzed: 06/03/14 Methods: EPA 200.7, SW846 6010C
QC Limits: result < RL Run ID: MA34154 Units: ug/l

Time: Sample ID:			22:34 CCB4		23:40 CCB5		00:46 CCB6		01:52 CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final

Zirconium 10 .6

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB67898
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA060314M1.ICP Date Analyzed: 06/03/14 Methods: EPA 200.7, SW846 6010C
QC Limits: result < RL Run ID: MA34154 Units: ug/l

Time: Sample ID:		02:34 CCB8			
Metal	RL	IDL	raw	final	
Aluminum	200	6.7	anr		
Antimony	6.0	1.3	0.30	<500	
Arsenic	3.0	1.2	anr		
Barium	200	.2	anr		
Beryllium	1.0	.04	anr		
Bismuth	20	1.2			
Boron	100	1.2			
Cadmium	3.0	.2	anr		
Calcium	5000	8.7	3.3	<10000	
Chromium	10	.3	anr		
Cobalt	50	.4	anr		
Copper	10	.5	anr		
Iron	100	3.8	anr		
Lead	3.0	1.3	anr		
Lithium	20	.8			
Magnesium	5000	12	2.9	<10000	
Manganese	15	.04	anr		
Molybdenum	20	.5			
Nickel	10	.7	anr		
Palladium	50	1			
Potassium	10000	17	anr		
Selenium	10	2	anr		
Silicon	200	8.4			
Silver	10	.3	anr		
Sodium	10000	7.1	anr		
Sulfur	50	4.4			
Strontium	10	.09			
Thallium	2.0	1.4	anr		
Tin	10	.8			
Titanium	10	.4			
Tungsten	50	11			
Vanadium	50	.3	anr		
Zinc	20	1.5	0.10	<20	

10.3.2
10

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB67898
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA060314M1.ICP Date Analyzed: 06/03/14 Methods: EPA 200.7, SW846 6010C
QC Limits: result < RL Run ID: MA34154 Units: ug/l

Time:		02:34	
Sample ID:		CCB8	
Metal	RL	IDL	raw final

Zirconium 10 .6

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial Continuing Calibration Check

Login Number: JB67898

Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA060314M1.ICP Date Analyzed: 06/03/14 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA34154 Units: ug/l

Time: Sample ID: ICCV		19:11 ICCV1	
Metal	True	Results	% Rec
Aluminum	anr		
Antimony	2000	2040	102.0
Arsenic	anr		
Barium	anr		
Beryllium	anr		
Bismuth			
Boron			
Cadmium	anr		
Calcium	40000	39700	99.3
Chromium	anr		
Cobalt	anr		
Copper	anr		
Iron	anr		
Lead	anr		
Lithium			
Magnesium	40000	39200	98.0
Manganese	anr		
Molybdenum			
Nickel	anr		
Palladium			
Potassium	anr		
Selenium	anr		
Silicon			
Silver	anr		
Sodium	anr		
Sulfur			
Strontium			
Thallium	anr		
Tin			
Titanium			
Tungsten			
Vanadium	anr		
Zinc	2000	2090	104.5

10.3.3
10

CALIBRATION CHECK STANDARDS SUMMARY
Initial Continuing Calibration Check

Login Number: JB67898

Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA060314M1.ICP Date Analyzed: 06/03/14 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA34154 Units: ug/l

Time:	19:11
Sample ID: ICCV	ICCV1
Metal	True
Results	% Rec

Zirconium

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB67898

Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA060314M1.ICP
QC Limits: 95 to 105 % Recovery

Date Analyzed: 06/03/14
Run ID: MA34154

Methods: EPA 200.7, SW846 6010C
Units: ug/l

Time: Sample ID:	ICV	18:56 ICV1	% Rec	CCV	20:16 CCV1	% Rec	CCV	21:22 CCV2	% Rec
Metal	True	Results		True	Results		True	Results	
Aluminum	anr								
Antimony	2000	2020	101.0	2000	2040	102.0	2000	2050	102.5
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Bismuth									
Boron									
Cadmium	anr								
Calcium	40000	41000	102.5	40000	40100	100.3	40000	39900	99.8
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	anr								
Lithium									
Magnesium	40000	41800	104.5	40000	39600	99.0	40000	39500	98.8
Manganese	anr								
Molybdenum									
Nickel	anr								
Palladium									
Potassium	anr								
Selenium	anr								
Silicon									
Silver	anr								
Sodium	anr								
Sulfur									
Strontium									
Thallium	anr								
Tin									
Titanium									
Tungsten									
Vanadium	anr								
Zinc	2000	2090	104.5	2000	2110	105.5	2000	2120	106.0

10.3.4
10

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB67898
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA060314M1.ICP Date Analyzed: 06/03/14 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA34154 Units: ug/l

Time:		18:56			20:16			21:22		
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2		
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec	

Zirconium

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB67898
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA060314M1.ICP Date Analyzed: 06/03/14 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA34154 Units: ug/l

Time: Sample ID:	CCV	22:28 CCV3	% Rec	CCV	23:34 CCV4	% Rec	CCV	00:40 CCV5	% Rec
Metal	True	Results		True	Results		True	Results	
Aluminum	anr								
Antimony	2000	2050	102.5	2000	2070	103.5	2000	2060	103.0
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Bismuth									
Boron									
Cadmium	anr								
Calcium	40000	40500	101.3	40000	40600	101.5	40000	40700	101.8
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	anr								
Lithium									
Magnesium	40000	40000	100.0	40000	40100	100.3	40000	40000	100.0
Manganese	anr								
Molybdenum									
Nickel	anr								
Palladium									
Potassium	anr								
Selenium	anr								
Silicon									
Silver	anr								
Sodium	anr								
Sulfur									
Strontium									
Thallium	anr								
Tin									
Titanium									
Tungsten									
Vanadium	anr								
Zinc	2000	2150	107.5	2000	2150	107.5	2000	2140	107.0

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB67898
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA060314M1.ICP Date Analyzed: 06/03/14 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA34154 Units: ug/l

Time:		22:28			23:34			00:40		
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5		
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec	

Zirconium

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB67898
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA060314M1.ICP Date Analyzed: 06/03/14 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA34154 Units: ug/l

Time: Sample ID:	CCV	01:46 CCV6	% Rec	CCV	02:29 CCV7	% Rec
Metal	True	Results		True	Results	
Aluminum	anr					
Antimony	2000	2040	102.0	2000	2100	105.0
Arsenic	anr					
Barium	anr					
Beryllium	anr					
Bismuth						
Boron						
Cadmium	anr					
Calcium	40000	40400	101.0	40000	40700	101.8
Chromium	anr					
Cobalt	anr					
Copper	anr					
Iron	anr					
Lead	anr					
Lithium						
Magnesium	40000	39800	99.5	40000	40300	100.8
Manganese	anr					
Molybdenum						
Nickel	anr					
Palladium						
Potassium	anr					
Selenium	anr					
Silicon						
Silver	anr					
Sodium	anr					
Sulfur						
Strontium						
Thallium	anr					
Tin						
Titanium						
Tungsten						
Vanadium	anr					
Zinc	2000	2100	105.0	2000	2160	108.0

10.3.4
10

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB67898
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA060314M1.ICP Date Analyzed: 06/03/14 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA34154 Units: ug/l

Time:		01:46		02:29	
Sample ID:		CCV6		CCV7	
Metal	True	Results	% Rec	True	Results % Rec

Zirconium

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JB67898
 Account: LANGAN - Langan Engineering & Environmental
 Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA060314M1.ICP Date Analyzed: 06/03/14 Methods: EPA 200.7, SW846 6010C
 QC Limits: 70 to 130 % Recovery Run ID: MA34154 Units: ug/l

Time: Sample ID:	CRI	CRIA	CRID	19:27 CRI1	% Rec	19:33 CRID1	% Rec	19:39 CRIA1	% Rec
Metal	True	True	True	Results		Results		Results	
Aluminum	200	500	100	anr					
Antimony	6.0	20	3.0	7.1	118.3	3.8	126.7	21.2	106.0
Arsenic	8.0	20	3.0	anr					
Barium	200		4.0	anr					
Beryllium	2.0		1.0	anr					
Bismuth	20								
Boron	100		10						
Cadmium	3.0		1.0	anr					
Calcium	5000		1000	5090	101.8	1050	105.0		
Chromium	10		2.0	anr					
Cobalt	50		3.0	anr					
Copper	10		2.0	anr					
Iron	100	500		anr					
Lead	3.0	20	2.5	anr					
Lithium	20								
Magnesium	5000		100	5070	101.4	106	106.0		
Manganese	15		3.0	anr					
Molybdenum	20								
Nickel	10		4.0	anr					
Palladium	50								
Potassium	5000		2000	anr					
Selenium	10	20	5.0	anr					
Silicon	200								
Silver	5.0		1.0	anr					
Sodium	5000		1000	anr					
Sulfur	50								
Strontium	10								
Thallium	10		2.0	anr					
Tin	10								
Titanium	10								
Tungsten	50								
Vanadium	50		2.0	anr					
Zinc	20		10	24.3	121.5	12.7	127.0		

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JB67898
 Account: LANGAN - Langan Engineering & Environmental
 Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA060314M1.ICP Date Analyzed: 06/03/14 Methods: EPA 200.7, SW846 6010C
 QC Limits: 70 to 130 % Recovery Run ID: MA34154 Units: ug/l

Time:				19:27		19:33		19:39	
Sample ID:	CRI	CRIA	CRID	CRI1		CRID1		CRIA1	
Metal	True	True	True	Results	% Rec	Results	% Rec	Results	% Rec

Zirconium 10 5.0

(*) Outside of QC limits
 (anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JB67898
 Account: LANGAN - Langan Engineering & Environmental
 Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA060314M1.ICP Date Analyzed: 06/03/14 Methods: EPA 200.7, SW846 6010C
 QC Limits: 70 to 130 % Recovery Run ID: MA34154 Units: ug/l

Time: Sample ID:	CRI	CRIA	CRID	01:58 CRI2	% Rec	02:04 CRID2	% Rec	02:10 CRIA2	% Rec
Metal	True	True	True	Results		Results		Results	
Aluminum	200	500	100	anr					
Antimony	6.0	20	3.0	7.5	125.0	3.4	113.3	21.2	106.0
Arsenic	8.0	20	3.0	anr					
Barium	200		4.0	anr					
Beryllium	2.0		1.0	anr					
Bismuth	20								
Boron	100		10						
Cadmium	3.0		1.0	anr					
Calcium	5000		1000	5060	101.2	1050	105.0		
Chromium	10		2.0	anr					
Cobalt	50		3.0	anr					
Copper	10		2.0	anr					
Iron	100	500		anr					
Lead	3.0	20	2.5	anr					
Lithium	20								
Magnesium	5000		100	5030	100.6	111	111.0		
Manganese	15		3.0	anr					
Molybdenum	20								
Nickel	10		4.0	anr					
Palladium	50								
Potassium	5000		2000	anr					
Selenium	10	20	5.0	anr					
Silicon	200								
Silver	5.0		1.0	anr					
Sodium	5000		1000	anr					
Sulfur	50								
Strontium	10								
Thallium	10		2.0	anr					
Tin	10								
Titanium	10								
Tungsten	50								
Vanadium	50		2.0	anr					
Zinc	20		10	24.0	120.0	12.7	127.0		

10.3.5
10

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JB67898
 Account: LANGAN - Langan Engineering & Environmental
 Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA060314M1.ICP Date Analyzed: 06/03/14 Methods: EPA 200.7, SW846 6010C
 QC Limits: 70 to 130 % Recovery Run ID: MA34154 Units: ug/l

Time:				01:58		02:04		02:10	
Sample ID:	CRI	CRIA	CRID	CRI2	% Rec	CRID2	% Rec	CRIA2	% Rec
Metal	True	True	True	Results		Results		Results	

Zirconium 10 5.0

(*) Outside of QC limits
 (anr) Analyte not requested

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: JB67898

Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA060314M1.ICP Date Analyzed: 06/03/14 Methods: EPA 200.7, SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA34154 Units: ug/l

Time: Sample ID:	ICSA True	ICSAB True	19:51 ICSA1 Results	% Rec	19:58 ICSAB1 Results	% Rec	02:16 ICSA2 Results	% Rec	02:22 ICSAB2 Results	% Rec
Metal										
Aluminum	500000	500000	534000	106.8	518000	103.6	524000	104.8	527000	105.4
Antimony		1000	5.7		1030	103.0	5.1		1050	105.0
Arsenic		1000	2.7		1080	108.0	1.0		1100	110.0
Barium		500	-0.20		526	105.2	-0.20		536	107.2
Beryllium		500	0.0		521	104.2	0.0		534	106.8
Bismuth		500	15.0		576	115.2	15.1		585	117.0
Boron			-1.9		-1.2		-3.8		-1.8	
Cadmium		1000	2.1		1040	104.0	2.1		1060	106.0
Calcium	400000	400000	410000	102.5	398000	99.5	405000	101.3	406000	101.5
Chromium		500	-0.10		484	96.8	-0.10		483	96.6
Cobalt		500	-0.30		492	98.4	-0.20		496	99.2
Copper		500	3.1		545	109.0	2.9		545	109.0
Iron	200000	200000	205000	102.5	198000	99.0	201000	100.5	200000	100.0
Lead		1000	-2.3		1010	101.0	-3.0		1020	102.0
Lithium		500	1.3		564	112.8	1.0		576	115.2
Magnesium	500000	500000	581000	116.2	573000	114.6	568000	113.6	585000	117.0
Manganese		500	0.0		510	102.0	0.20		507	101.4
Molybdenum		500	-4.8		500	100.0	-4.6		507	101.4
Nickel		1000	-0.40		989	98.9	-0.50		999	99.9
Palladium		500	6.0		567	113.4	5.9		566	113.2
Potassium			144		113		102		74.5	
Selenium		1000	0.40		1050	105.0	2.5		1080	108.0
Silicon			12.5		3.0		11.0		2.0	
Silver		1000	2.9		1060	106.0	2.3		1060	106.0
Sodium			15.4		15.2		24.6		22.4	
Sulfur		500	-68		439	87.8	-71		444	88.8
Strontium			-6.7		-6.5		-6.6		-6.7	
Thallium		1000	0.50		971	97.1	0.30		977	97.7
Tin			-0.40		0.50		0.30		2.1	
Titanium			0.40		0.30		0.0		0.40	
Tungsten		500	10.0		559	111.8	8.4		566	113.2
Vanadium		500	0.80		488	97.6	0.80		487	97.4
Zinc		1000	-0.60		988	98.8	-0.40		999	99.9

10.3.6
10

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: JB67898
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA060314M1.ICP Date Analyzed: 06/03/14 Methods: EPA 200.7, SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA34154 Units: ug/l

Time:				19:51			19:58			02:16			02:22		
Sample ID:	ICSAB	ICSAB	ICSAB	ICSAB1	% Rec	Results	% Rec	Results	% Rec	ICSAB2	% Rec	Results	% Rec	ICSAB2	% Rec
Metal	True	True	True	Results	% Rec	Results	% Rec	Results	% Rec	Results	% Rec	Results	% Rec	Results	% Rec

Zirconium	500	6.6		605	121.0*	6.8		601	120.2*

(*) Outside of QC limits
(anr) Analyte not requested

10.3.6
10

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB67898
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: H8060514W1.CSV Date Analyzed: 06/05/14 Methods: EPA 245.1, SW846 7470A
Analyst: JW Run ID: MA34168
Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
12:14	MA34168-STD1	1		B=0.9999168, B=2.525e-4, C=2.4714e-2.
12:15	MA34168-STD2	1		STDB
12:16	MA34168-STD3	1		STDC
12:17	MA34168-STD4	1		STDD
12:19	MA34168-STD5	1		STDE
12:20	MA34168-STD6	1		STDF
12:25	MA34168-ICV1	1		
12:26	MA34168-ICB1	1		
12:28	MA34168-ICCV1	1		
12:29	MA34168-CCB1	1		
12:31	MA34168-CRIB1	1		
12:53	MP79894-MB1	1		
12:55	MP79894-LC1	1		
12:56	MP79894-S1	1		
12:58	MP79894-S2	1		
12:59	JB68374-7A	1		(sample used for QC only; not part of login JB67898)
13:01	ZZZZZZ	1		
13:02	ZZZZZZ	1		
13:03	ZZZZZZ	1		
13:05	ZZZZZZ	1		
13:06	MA34168-CCV1	1		
13:07	MA34168-CCB2	1		
13:09	ZZZZZZ	1		
13:10	ZZZZZZ	1		
13:11	MP79895-MB1	1		
13:13	MP79895-LC1	1		
13:14	MP79895-S1	1		
13:15	MP79895-S2	1		
13:17	C34314-1	1		(sample used for QC only; not part of login JB67898)
13:19	MP79896-MB1	1		
13:20	MP79896-LC1	1		
13:21	ZZZZZZ	1		
13:23	MA34168-CCV2	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB67898

Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: H8060514W1.CSV
Analyst: JW
Parameters: Hg

Date Analyzed: 06/05/14
Run ID: MA34168

Methods: EPA 245.1, SW846 7470A

Time	Sample Description	Dilution Factor	PS Recov	Comments
13:24	MA34168-CCB3	1		
13:26	ZZZZZZ	1		
13:27	ZZZZZZ	1		
13:28	ZZZZZZ	1		
13:30	ZZZZZZ	1		
13:31	JB67898-4	1		
----->	Last reportable sample/prep for job JB67898			
13:32	ZZZZZZ	1		
13:33	ZZZZZZ	1		
13:35	ZZZZZZ	1		
13:36	ZZZZZZ	1		
13:37	ZZZZZZ	1		
13:39	MA34168-CCV3	1		
13:40	MA34168-CCB4	1		
13:41	ZZZZZZ	1		
13:43	MP79897-MB1	1		
13:44	MP79897-LC1	1		
13:45	MP79897-S1	1		
13:47	MP79897-S2	1		
13:48	ZZZZZZ	1		
13:50	JB68042-1F	1		(sample used for QC only; not part of login JB67898)
13:52	ZZZZZZ	1		
13:53	ZZZZZZ	1		
13:54	ZZZZZZ	1		
13:55	MA34168-CCV4	1		
13:57	MA34168-CCB5	1		
13:58	ZZZZZZ	1		
14:00	ZZZZZZ	1		
14:01	ZZZZZZ	1		
14:02	ZZZZZZ	1		
14:03	ZZZZZZ	1		
14:05	ZZZZZZ	1		
14:06	ZZZZZZ	1		
14:08	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB67898

Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: H8060514W1.CSV
Analyst: JW
Parameters: Hg

Date Analyzed: 06/05/14
Run ID: MA34168

Methods: EPA 245.1, SW846 7470A

Time	Sample Description	Dilution Factor	PS Recov	Comments
14:09	ZZZZZZ	1		
14:10	ZZZZZZ	1		
14:12	MA34168-CCV5	1		
14:13	MA34168-CCB6	1		
14:14	ZZZZZZ	1		
14:16	ZZZZZZ	1		
14:17	ZZZZZZ	1		
14:18	ZZZZZZ	1		
14:20	ZZZZZZ	1		
14:21	MP79853-MB2	1		
14:22	MP79853-LC1	1		
14:24	ZZZZZZ	1		
14:25	MP79899-MB1	1		
14:27	MP79899-B1	1		
14:28	MA34168-CCV6	1		
14:30	MA34168-CCB7	1		
14:31	MP79899-S1	1		
14:32	MP79899-S2	1		
14:34	JB68196-1	1		(sample used for QC only; not part of login JB67898)
14:36	MP79900-MB1	1		
14:37	MP79900-B1	1		
14:38	MP79900-S1	1		
14:40	MP79900-S2	1		
14:41	JB68216-1	1		(sample used for QC only; not part of login JB67898)
14:43	ZZZZZZ	1		
14:44	ZZZZZZ	1		
14:46	MA34168-CCV7	1		
14:47	MA34168-CCB8	1		
14:48	ZZZZZZ	1		
14:50	ZZZZZZ	1		
14:51	ZZZZZZ	1		
14:52	ZZZZZZ	1		
14:54	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB67898

Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: H8060514W1.CSV

Date Analyzed: 06/05/14

Methods: EPA 245.1, SW846 7470A

Analyst: JW

Run ID: MA34168

Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
14:55	ZZZZZZ	1		
14:57	ZZZZZZ	1		
14:58	MP79821-MB3	1		
14:59	MP79821-LC2	1		
15:01	ZZZZZZ	1		
15:02	MA34168-CCV8	1		
15:03	MA34168-CCB9	1		
15:05	MP79871-MB2	1		
15:06	MP79871-LC2	1		
15:08	ZZZZZZ	1		
15:09	ZZZZZZ	1		
15:10	MP79901-MB1	1		
15:12	MP79901-B1	1		
15:13	MP79901-S1	1		
15:15	MP79901-S2	1		
15:16	JB68325-2A	1		(sample used for QC only; not part of login JB67898)
15:18	ZZZZZZ	1		
15:19	MA34168-CCV9	1		
15:21	MA34168-CCB10	1		
15:22	ZZZZZZ	1		
15:24	ZZZZZZ	1		
15:25	ZZZZZZ	1		
15:27	ZZZZZZ	1		
15:39	MA34168-CRIB2	1		
15:45	ZZZZZZ	2		
15:47	ZZZZZZ	1		
15:48	ZZZZZZ	1		
16:07	MA34168-CCV10	1		
16:08	MA34168-CCB11	1		
-----> Last reportable CCB for job JB67898 Refer to raw data for calibration curve and standards.				

10.4
10

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB67898
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: H8060514W1.CSV Date Analyzed: 06/05/14 Methods: EPA 245.1, SW846 7470A
QC Limits: result < RL Run ID: MA34168 Units: ug/l

Time: Sample ID:			12:26 ICB1		12:29 CCB1		13:07 CCB2		13:24 CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Mercury	0.20	.031	-0.032	<0.20	-0.038	<0.20	-0.035	<0.20	-0.034	<0.20

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB67898
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: H8060514W1.CSV Date Analyzed: 06/05/14 Methods: EPA 245.1, SW846 7470A
QC Limits: result < RL Run ID: MA34168 Units: ug/l

Time: Sample ID:			13:40 CCB4		13:57 CCB5		14:13 CCB6		14:30 CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Mercury	0.20	.031	-0.034	<0.20	-0.035	<0.20	-0.031	<0.20	-0.035	<0.20

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB67898
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: H8060514W1.CSV Date Analyzed: 06/05/14 Methods: EPA 245.1, SW846 7470A
QC Limits: result < RL Run ID: MA34168 Units: ug/l

Time: Sample ID:			14:47 CCB8		15:03 CCB9		15:21 CCB10		16:08 CCB11	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Mercury	0.20	.031	-0.021	<0.20	-0.024	<0.20	-0.023	<0.20	-0.029	<0.20

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial Continuing Calibration Check

Login Number: JB67898

Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: H8060514W1.CSV Date Analyzed: 06/05/14 Methods: EPA 245.1, SW846 7470A
QC Limits: 95 to 105 % Recovery Run ID: MA34168 Units: ug/l

Time:		12:28	
Sample ID:		ICCV1	
Metal	True	Results	% Rec
Mercury	2.5	2.5	100.0

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB67898

Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: H8060514W1.CSV Date Analyzed: 06/05/14 Methods: EPA 245.1, SW846 7470A
QC Limits: 90 to 110 % Recovery Run ID: MA34168 Units: ug/l

Time:		12:25			13:06			13:23		
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2		
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec	
Mercury	3	2.9	96.7	2.5	2.5	100.0	2.5	2.4	96.0	

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB67898

Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: H8060514W1.CSV Date Analyzed: 06/05/14 Methods: EPA 245.1, SW846 7470A
QC Limits: 90 to 110 % Recovery Run ID: MA34168 Units: ug/l

Time:		13:39		13:55		14:12	
Sample ID:		CCV		CCV		CCV	
Metal		True		True		True	
		Results	% Rec	Results	% Rec	Results	% Rec
Mercury		2.5	100.0	2.5	104.0	2.5	100.0

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB67898

Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: H8060514W1.CSV Date Analyzed: 06/05/14 Methods: EPA 245.1, SW846 7470A
QC Limits: 90 to 110 % Recovery Run ID: MA34168 Units: ug/l

Time:		14:28		14:46		15:02	
Sample ID:		CCV		CCV		CCV	
Metal		True		True		True	
		Results	% Rec	Results	% Rec	Results	% Rec
Mercury		2.5	100.0	2.5	100.0	2.5	100.0

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB67898

Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: H8060514W1.CSV Date Analyzed: 06/05/14 Methods: EPA 245.1, SW846 7470A
QC Limits: 90 to 110 % Recovery Run ID: MA34168 Units: ug/l

Time:		15:19		16:07	
Sample ID:		CCV		CCV	
Metal		True		True	
		Results	% Rec	Results	% Rec
Mercury		2.5	100.0	2.5	100.0

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JB67898
 Account: LANGAN - Langan Engineering & Environmental
 Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: H8060514W1.CSV Date Analyzed: 06/05/14 Methods: EPA 245.1, SW846 7470A
 QC Limits: to % Recovery Run ID: MA34168 Units: ug/l

Time:		12:31			15:39
Sample ID:		CRIB	CRIB1	CRIB2	
Metal	True	Results	% Rec	Results	% Rec
Mercury	0.20	0.21	105.0	0.20	100.0

(*) Outside of QC limits
 (anr) Analyte not requested

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB67898
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: H5061114S1.CSV Date Analyzed: 06/11/14 Methods: SW846 7471B
Analyst: JW Run ID: MA34211
Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
11:18	MA34211-STD1	1		STDA
11:22	MA34211-STD2	1		STDB
11:23	MA34211-STD3	1		STDC
11:25	MA34211-STD4	1		STDD
11:26	MA34211-STD5	1		STDE
11:27	MA34211-STD6	1		STDF
11:32	MA34211-ICV1	1		
11:33	MA34211-ICB1	1		
11:35	MA34211-CCV1	1		
11:36	MA34211-CCB1	1		
11:38	MA34211-CRI1	1		
11:51	ZZZZZZ	1		
11:53	ZZZZZZ	1		
11:54	MP79976-MB1	1		
11:55	MP79976-LC1	2		
11:57	MP79976-S1	1		
11:58	MP79976-S2	1		
12:00	JB67898-1	1		
12:01	JB67898-2	1		
----->	Last reportable sample/prep for job JB67898			
12:03	ZZZZZZ	1		
12:04	MA34211-CCV2	1		
12:05	MA34211-CCB2	1		
12:07	ZZZZZZ	1		
12:08	ZZZZZZ	1		
12:09	ZZZZZZ	1		
12:11	ZZZZZZ	1		
12:12	ZZZZZZ	1		
12:13	ZZZZZZ	1		
12:15	ZZZZZZ	1		
12:16	ZZZZZZ	1		
12:17	ZZZZZZ	1		
12:19	JB67912-9A	1		(sample used for QC only; not part of login JB67898)
12:20	MA34211-CCV3	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB67898

Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: H5061114S1.CSV

Date Analyzed: 06/11/14

Methods: SW846 7471B

Analyst: JW

Run ID: MA34211

Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
12:22	MA34211-CCB3	1		
12:23	ZZZZZZ	1		
12:25	ZZZZZZ	1		
12:26	ZZZZZZ	1		
12:27	ZZZZZZ	1		
12:29	ZZZZZZ	1		
12:30	ZZZZZZ	1		
12:32	ZZZZZZ	1		
12:33	ZZZZZZ	2		
12:37	MP79977-MB1	1		
12:38	MA34211-CCV4	1		
12:39	MA34211-CCB4	1		
12:41	MP79977-LC1	2		
12:42	MP79977-S1	1		
12:44	MP79977-S2	1		
12:45	JB68561-1	1		(sample used for QC only; not part of login JB67898)
12:49	ZZZZZZ	1		
12:50	ZZZZZZ	1		
12:52	ZZZZZZ	1		
12:53	ZZZZZZ	1		
12:54	ZZZZZZ	1		
12:56	ZZZZZZ	1		
12:57	MA34211-CCV5	1		
12:58	MA34211-CCB5	1		
13:00	ZZZZZZ	1		
13:05	ZZZZZZ	5		
13:06	ZZZZZZ	1		
13:07	ZZZZZZ	1		
13:09	ZZZZZZ	1		
13:10	ZZZZZZ	1		
13:11	ZZZZZZ	1		
13:13	ZZZZZZ	1		
13:14	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB67898

Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: H5061114S1.CSV

Date Analyzed: 06/11/14

Methods: SW846 7471B

Analyst: JW

Run ID: MA34211

Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
13:15	ZZZZZZ	1		
13:17	MA34211-CCV6	1		
13:18	MA34211-CCB6	1		
13:19	ZZZZZZ	1		
13:21	ZZZZZZ	1		
13:22	ZZZZZZ	1		
13:23	ZZZZZZ	1		
13:44	MP79978-MB1	1		
13:45	MP79978-LC1	2		
13:47	MP79978-S1	1		
13:48	MP79978-S2	1		
13:50	JB68603-1A	1		(sample used for QC only; not part of login JB67898)
13:51	ZZZZZZ	1		
13:52	MA34211-CCV7	1		
13:54	MA34211-CCB7	1		
13:55	ZZZZZZ	1		
13:57	ZZZZZZ	1		
13:58	ZZZZZZ	1		
14:00	ZZZZZZ	1		
14:01	ZZZZZZ	1		
14:02	ZZZZZZ	1		
14:04	ZZZZZZ	1		
14:05	ZZZZZZ	1		
14:06	ZZZZZZ	1		
14:08	ZZZZZZ	1		
14:09	MA34211-CCV8	1		
14:10	MA34211-CCB8	1		
14:12	ZZZZZZ	1		
14:13	ZZZZZZ	1		
14:14	ZZZZZZ	1		
14:16	ZZZZZZ	1		
14:17	ZZZZZZ	1		
14:19	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB67898

Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: H5061114S1.CSV
Analyst: JW
Parameters: Hg

Date Analyzed: 06/11/14 Methods: SW846 7471B
Run ID: MA34211

Time	Sample Description	Dilution Factor	PS Recov	Comments
14:20	MP79990-MB1	1		
14:22	MP79990-LC1	2		
14:23	MP79990-S1	1		
14:24	MP79990-S2	1		
14:26	MA34211-CCV9	1		
14:27	MA34211-CCB9	1		
14:29	JB67981-8	1		(sample used for QC only; not part of login JB67898)
14:30	ZZZZZZ	1		
14:31	ZZZZZZ	1		
14:33	ZZZZZZ	1		
14:34	ZZZZZZ	1		
14:35	ZZZZZZ	1		
14:37	ZZZZZZ	1		
14:38	ZZZZZZ	1		
14:39	ZZZZZZ	1		
14:41	ZZZZZZ	1		
14:42	MA34211-CCV10	1		
14:44	MA34211-CCB10	1		
14:45	ZZZZZZ	1		
14:46	ZZZZZZ	1		
14:48	ZZZZZZ	1		
15:13	ZZZZZZ	5		
15:15	MA34211-CCV11	1		
15:16	MA34211-CCB11	1		
16:13	MA34211-CRI2	1		
16:36	ZZZZZZ	1		
16:38	ZZZZZZ	1		
16:39	ZZZZZZ	1		
16:40	ZZZZZZ	1		
16:42	ZZZZZZ	1		
16:43	ZZZZZZ	1		
16:44	ZZZZZZ	1		
16:46	MA34211-CCV12	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB67898

Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: H5061114S1.CSV

Date Analyzed: 06/11/14

Methods: SW846 7471B

Analyst: JW

Run ID: MA34211

Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments

16:47 MA34211-CCB12 1

----->

Last reportable CCB for job JB67898

Refer to raw data for calibration curve and standards.

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB67898
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: H5061114S1.CSV Date Analyzed: 06/11/14 Methods: SW846 7471B
QC Limits: result < RL Run ID: MA34211 Units: ug/l

Time: Sample ID:			11:33 ICB1		11:36 CCB1		12:05 CCB2		12:22 CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Mercury	0.20	.038	-0.017	<0.20	-0.025	<0.20	-0.081	<0.20	-0.060	<0.20

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB67898
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: H5061114S1.CSV Date Analyzed: 06/11/14 Methods: SW846 7471B
QC Limits: result < RL Run ID: MA34211 Units: ug/l

Time: Sample ID:			12:39 CCB4		12:58 CCB5		13:18 CCB6		13:54 CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Mercury	0.20	.038	-0.074	<0.20	-0.10	<0.20	-0.045	<0.20	-0.093	<0.20

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB67898
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: H5061114S1.CSV Date Analyzed: 06/11/14 Methods: SW846 7471B
QC Limits: result < RL Run ID: MA34211 Units: ug/l

Time: Sample ID:			14:10 CCB8		14:27 CCB9		14:44 CCB10		15:16 CCB11	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Mercury	0.20	.038	-0.065	<0.20	-0.049	<0.20	-0.058	<0.20	-0.039	<0.20

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB67898
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: H5061114S1.CSV Date Analyzed: 06/11/14 Methods: SW846 7471B
QC Limits: result < RL Run ID: MA34211 Units: ug/l

Time:		16:47		
Sample ID:		CCB12		
Metal	RL	IDL	raw	final
Mercury	0.20	.038	-0.053	<0.20

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB67898

Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: H5061114S1.CSV Date Analyzed: 06/11/14 Methods: SW846 7471B
QC Limits: 90 to 110 % Recovery Run ID: MA34211 Units: ug/l

Time:		11:32		11:35		12:04	
Sample ID:	ICV	ICV1	CCV	CCV1	CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True
Mercury	3.0	3.0	100.0	2.5	2.6	104.0	2.5
							2.7
							108.0

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB67898

Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: H5061114S1.CSV Date Analyzed: 06/11/14 Methods: SW846 7471B
QC Limits: 90 to 110 % Recovery Run ID: MA34211 Units: ug/l

Time:		12:20		12:38		12:57			
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Mercury	2.5	2.8	112.0	2.5	3.0	120.0	2.5	2.7	108.0

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB67898

Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: H5061114S1.CSV Date Analyzed: 06/11/14 Methods: SW846 7471B
QC Limits: 90 to 110 % Recovery Run ID: MA34211 Units: ug/l

Time:		13:17		13:52		14:09			
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Mercury	2.5	2.6	104.0	2.5	2.5	100.0	2.5	2.8	112.0

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB67898

Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: H5061114S1.CSV Date Analyzed: 06/11/14 Methods: SW846 7471B
QC Limits: 90 to 110 % Recovery Run ID: MA34211 Units: ug/l

Time:		14:26		14:42		15:15			
Sample ID:	CCV	CCV9		CCV	CCV10		CCV	CCV11	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Mercury	2.5	2.8	112.0	2.5	2.6	104.0	2.5	2.8	112.0

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB67898

Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: H5061114S1.CSV Date Analyzed: 06/11/14 Methods: SW846 7471B
QC Limits: 90 to 110 % Recovery Run ID: MA34211 Units: ug/l

Time:	16:46		
Sample ID:	CCV	CCV12	
Metal	True	Results	% Rec
Mercury	2.5	2.6	104.0

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JB67898

Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: H5061114S1.CSV Date Analyzed: 06/11/14 Methods: SW846 7471B
QC Limits: 70 to 130 % Recovery Run ID: MA34211 Units: ug/l

Time:				11:38		16:13	
Sample ID:	CRI	CRIA	CRI1			CRI2	
Metal	True	True	Results	% Rec		Results	% Rec
Mercury	0.20		0.17	85.0		0.20	100.0

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JB67898
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

QC Batch ID: MP79752
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 05/29/14

Metal	RL	IDL	MDL	MB raw	final
Aluminum	50	.58	1.3	1.5	<50
Antimony	2.0	.079	.27	0.050	<2.0
Arsenic	2.0	.079	.29	-0.030	<2.0
Barium	20	.03	.079	0.040	<20
Beryllium	0.20	.0089	.02	0.0099	<0.20
Bismuth	2.0	.14	.23		
Boron	9.9	.069	.18		
Cadmium	0.50	.02	.05	0.020	<0.50
Calcium	500	.86	3	-0.37	<500
Chromium	0.99	.03	.069	0.0099	<0.99
Cobalt	5.0	.03	.059	0.0	<5.0
Copper	2.5	.22	.15	-0.099	<2.5
Iron	50	.54	.95	1.8	<50
Lead	2.0	.089	.21	0.059	<2.0
Lithium	2.0	.099	.2		
Magnesium	500	1.8	3.3	1.6	<500
Manganese	1.5	.02	.059	0.030	<1.5
Molybdenum	2.0	.04	.069		
Nickel	4.0	.04	.099	0.020	<4.0
Palladium	5.0	.17	.26		
Potassium	990	3.7	4	1.8	<990
Selenium	2.0	.17	.33	0.12	<2.0
Silicon	20	.53	3.9		
Silver	0.50	.03	.14	-0.020	<0.50
Sodium	990	.6	1.9	0.030	<990
Strontium	0.99	.0099	.03		
Sulfur	5.0	.43	1		
Thallium	0.99	.13	.41	0.15	<0.99
Tin	5.0	.059	1.2		
Titanium	0.99	.03	.099		
Tungsten	5.0	.57	4.4		
Vanadium	5.0	.03	.089	0.020	<5.0
Zinc	2.0	.04	.38	-0.069	<2.0

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JB67898
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

QC Batch ID: MP79752
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 05/29/14

Metal	RL	IDL	MDL	MB raw	final

Zirconium 2.0 .03 .26

Associated samples MP79752: JB67898-1, JB67898-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

10.6.1
10

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JB67898
 Account: LANGAN - Langan Engineering & Environmental
 Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

QC Batch ID: MP79752
 Matrix Type: SOLID

Methods: SW846 6010C
 Units: mg/kg

Prep Date: 05/29/14

Metal	JB67702-1A Original MS		SpikeLot MPIRS1	% Rec	QC Limits
Aluminum	8450	15800	6120	120.1	75-125
Antimony	0.44	69.1	113	60.6N(a)	75-125
Arsenic	3.9	444	454	97.0	75-125
Barium	47.1	518	454	103.8	75-125
Beryllium	0.57	12.4	11.3	104.3	75-125
Bismuth					
Boron					
Cadmium	0.15	11.7	11.3	101.9	75-125
Calcium	3600	4170	1420	40.2N(a)	75-125
Chromium	17.0	64.5	45.4	104.7	75-125
Cobalt	4.6	114	113	96.5	75-125
Copper	20.2	77.9	56.7	101.8	75-125
Iron	14100	20900	5900	115.3	75-125
Lead	36.3	141	113	92.3	75-125
Lithium					
Magnesium	3150	3870	1420	50.8N(a)	75-125
Manganese	269	349	113	70.6N(a)	75-125
Molybdenum					
Nickel	9.5	121	113	98.3	75-125
Palladium					
Potassium	1170	2610	1420	101.6	75-125
Selenium	0.40	457	454	100.7	75-125
Silicon					
Silver	0.0	12.9	11.3	113.8	75-125
Sodium	344	1640	1420	91.4	75-125
Strontium					
Sulfur					
Thallium	0.40	468	454	103.1	75-125
Tin					
Titanium					
Tungsten					
Vanadium	23.9	132	113	95.3	75-125
Zinc	70.9	154	113	73.3N(a)	75-125

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JB67898
 Account: LANGAN - Langan Engineering & Environmental
 Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

QC Batch ID: MP79752
 Matrix Type: SOLID

Methods: SW846 6010C
 Units: mg/kg

Prep Date: 05/29/14

Metal	JB67702-1A Original MS	Spike lot MPIRS1	% Rec	QC Limits

Zirconium

Associated samples MP79752: JB67898-1, JB67898-2

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

(a) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

10.6.2
10

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JB67898
 Account: LANGAN - Langan Engineering & Environmental
 Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

QC Batch ID: MP79752
 Matrix Type: SOLID

Methods: SW846 6010C
 Units: mg/kg

Prep Date: 05/29/14

Metal	JB67702-1A Original	MSD	SpikeLot MPIRS1	% Rec	MSD RPD	QC Limit
Aluminum	8450	14500	6250	96.8	8.6	20
Antimony	0.44	67.4	116	57.9N(a)	2.5	20
Arsenic	3.9	430	463	92.1	3.2	20
Barium	47.1	503	463	98.5	2.9	20
Beryllium	0.57	12.0	11.6	98.8	3.3	20
Bismuth						
Boron						
Cadmium	0.15	11.3	11.6	96.4	3.5	20
Calcium	3600	4590	1450	68.5N(a)	9.6	20
Chromium	17.0	60.4	46.3	93.8	6.6	20
Cobalt	4.6	112	116	92.8	1.8	20
Copper	20.2	69.6	57.8	85.4	11.3	20
Iron	14100	18000	6020	64.8N(a)	14.9	20
Lead	36.3	139	116	88.8	1.4	20
Lithium						
Magnesium	3150	4060	1450	62.9N(a)	4.8	20
Manganese	269	348	116	68.3N(a)	0.3	20
Molybdenum						
Nickel	9.5	118	116	93.8	2.5	20
Palladium						
Potassium	1170	2480	1450	90.6	5.1	20
Selenium	0.40	443	463	95.6	3.1	20
Silicon						
Silver	0.0	12.5	11.6	108.0	3.1	20
Sodium	344	1580	1450	85.5	3.7	20
Strontium						
Sulfur						
Thallium	0.40	458	463	98.9	2.2	20
Tin						
Titanium						
Tungsten						
Vanadium	23.9	126	116	88.3	4.7	20
Zinc	70.9	151	116	69.2N(a)	2.0	20

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JB67898
 Account: LANGAN - Langan Engineering & Environmental
 Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

QC Batch ID: MP79752
 Matrix Type: SOLID

Methods: SW846 6010C
 Units: mg/kg

Prep Date: 05/29/14

Metal	JB67702-1A Original MSD	Spike lot MPIRS1	% Rec	MSD RPD	QC Limit

Zirconium

Associated samples MP79752: JB67898-1, JB67898-2

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

(a) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

10.6.2
10

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JB67898

Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NYQC Batch ID: MP79752
Matrix Type: SOLIDMethods: SW846 6010C
Units: mg/kg

Prep Date: 05/29/14

05/29/14

Metal	BSP Result	SpikeLot MPIRS1	% Rec	QC Limits	LCS Result	SpikeLot MPLC54082	% Rec	QC Limits
Aluminum	5570	5290	105.2	80-120	10100	8740	115.6	54-146
Antimony	98.5	98	100.5	80-120	99.9	108	92.5	2-215
Arsenic	404	392	103.0	80-120	134	151	88.7	81-120
Barium	424	392	108.1	80-120	240	262	91.6	83-117
Beryllium	11.0	9.8	112.2	80-120	122	133	91.7	82-118
Bismuth								
Boron								
Cadmium	10.1	9.8	103.0	80-120	134	152	88.2	82-118
Calcium	1280	1230	104.4	80-120	5870	6400	91.7	82-118
Chromium	42.9	39.2	109.4	80-120	112	117	95.7	79-121
Cobalt	100	98	102.0	80-120	62.4	68.7	90.8	83-117
Copper	50.4	49	102.8	80-120	59.2	68.6	86.3	81-119
Iron	5470	5100	107.3	80-120	13600	12300	110.6	40-160
Lead	104	98	106.1	80-120	238	254	93.7	81-119
Lithium								
Magnesium	1320	1230	107.7	80-120	3600	3600	100.0	77-123
Manganese	111	98	113.2	80-120	548	563	97.3	81-118
Molybdenum								
Nickel	105	98	107.1	80-120	296	315	94.0	82-118
Palladium								
Potassium	1320	1230	107.7	80-120	3170	3040	104.3	70-130
Selenium	411	392	104.8	80-120	149	162	92.0	77-122
Silicon								
Silver	11.2	9.8	114.2	80-120	41.5	44.3	93.7	74-126
Sodium	1320	1230	107.7	80-120	710	746	95.2	72-128
Strontium								
Sulfur								
Thallium	421	392	107.4	80-120	249	259	96.1	79-122
Tin								
Titanium								
Tungsten								
Vanadium	103	98	105.1	80-120	112	116	96.6	77-122
Zinc	106	98	108.1	80-120	290	306	94.8	80-120

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JB67898
 Account: LANGAN - Langan Engineering & Environmental
 Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

QC Batch ID: MP79752
 Matrix Type: SOLID

Methods: SW846 6010C
 Units: mg/kg

Prep Date: 05/29/14 05/29/14

Metal	BSP Result	Spike lot MPIRS1	% Rec	QC Limits	LCS Result	Spike lot MPLC54082%	QC Limits

Zirconium

Associated samples MP79752: JB67898-1, JB67898-2

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: JB67898
 Account: LANGAN - Langan Engineering & Environmental
 Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

QC Batch ID: MP79752
 Matrix Type: SOLID

Methods: SW846 6010C
 Units: ug/l

Prep Date: 05/29/14

Metal	JB67702-1A Original	SDL 1:5	%DIF	QC Limits
Aluminum	71500	71100	0.6	0-10
Antimony	3.70	5.40	45.9 (a)	0-10
Arsenic	33.3	37.1	11.4 (a)	0-10
Barium	399	417	4.7	0-10
Beryllium	4.80	4.80	0.0	0-10
Bismuth				
Boron				
Cadmium	1.30	1.70	30.8 (a)	0-10
Calcium	30500	30800	1.1	0-10
Chromium	144	148	2.4	0-10
Cobalt	38.7	39.8	2.8	0-10
Copper	171	175	2.1	0-10
Iron	120000	123000	2.6	0-10
Lead	307	302	1.5	0-10
Lithium				
Magnesium	26700	26300	1.5	0-10
Manganese	2280	2330	2.3	0-10
Molybdenum				
Nickel	80.6	82.2	2.0	0-10
Palladium				
Potassium	9910	10200	3.2	0-10
Selenium	3.40	12.8	276.5(a)	0-10
Silicon				
Silver	0.00	3.40	NC	0-10
Sodium	2910	2790	4.2	0-10
Strontium				
Sulfur				
Thallium	3.40	15.1	344.1(a)	0-10
Tin				
Titanium				
Tungsten				
Vanadium	203	205	1.3	0-10
Zinc	601	610	1.6	0-10

SERIAL DILUTION RESULTS SUMMARY

Login Number: JB67898
 Account: LANGAN - Langan Engineering & Environmental
 Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

QC Batch ID: MP79752
 Matrix Type: SOLID

Methods: SW846 6010C
 Units: ug/l

Prep Date: 05/29/14

Metal	JB67702-1A	QC	
	Original SDL 1:5	%DIF	Limits

Zirconium

Associated samples MP79752: JB67898-1, JB67898-2

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

10.6.4
10

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JB67898
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

QC Batch ID: MP79781
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 05/30/14

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	6.7	11	3.8	<200
Antimony	6.0	1.3	2.6	0.90	<6.0
Arsenic	3.0	1.2	2.6	-0.80	<3.0
Barium	200	.2	1	-0.20	<200
Beryllium	1.0	.04	.4	0.0	<1.0
Bismuth	20	1.2	2.4		
Boron	100	1.2	4.9		
Cadmium	3.0	.2	.7	0.30	<3.0
Calcium	5000	8.7	19	0.50	<5000
Chromium	10	.3	.89	0.0	<10
Cobalt	50	.4	.83	-0.10	<50
Copper	10	.5	1.2	-0.30	<10
Iron	100	3.8	12	1.1	<100
Lead	3.0	1.3	1.3	-0.80	<3.0
Lithium	20	.8	2.8		
Magnesium	5000	12	41	-1.3	<5000
Manganese	15	.04	.48	0.10	<15
Molybdenum	20	.5	1.1		
Nickel	10	.7	.75	-1.2	<10
Palladium	50	1	3.2		
Potassium	10000	17	50	-2.2	<10000
Selenium	10	2	3.6	1.3	<10
Silicon	200	8.4	24		
Silver	10	.3	1.2	-0.30	<10
Sodium	10000	7.1	19	36.7	<10000
Sulfur	50	4.4	10		
Strontium	10	.09	.76		
Thallium	2.0	1.4	1.8	-0.40	<2.0
Tin	10	.8	3.6		
Titanium	10	.4	.93		
Tungsten	50	11	14		
Vanadium	50	.3	.87	0.20	<50
Zinc	20	1.5	7.6	1.1	<20

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JB67898
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

QC Batch ID: MP79781
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 05/30/14

Metal	RL	IDL	MDL	MB raw	final

Zirconium 10 .6 1.9

Associated samples MP79781: JB67898-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JB67898

Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NYQC Batch ID: MP79781
Matrix Type: AQUEOUSMethods: SW846 6010C
Units: ug/l

Prep Date: 05/30/14

Metal	LCS Result	Spike lot MPLCW3	% Rec	QC Limits
Aluminum	4900	5000	98.0	80-120
Antimony	514	500	102.8	80-120
Arsenic	497	500	99.4	80-120
Barium	517	500	103.4	80-120
Beryllium	488	500	97.6	80-120
Bismuth				
Boron				
Cadmium	494	500	98.8	80-120
Calcium	5530	5500	100.5	80-120
Chromium	459	500	91.8	80-120
Cobalt	450	500	90.0	80-120
Copper	491	500	98.2	80-120
Iron	5440	5500	98.9	80-120
Lead	469	500	93.8	80-120
Lithium				
Magnesium	5430	5500	98.7	80-120
Manganese	482	500	96.4	80-120
Molybdenum				
Nickel	470	500	94.0	80-120
Palladium				
Potassium	10200	10000	102.0	80-120
Selenium	527	500	105.4	80-120
Silicon				
Silver	186	200	93.0	80-120
Sodium	10600	10000	106.0	80-120
Sulfur				
Strontium				
Thallium	498	500	99.6	80-120
Tin				
Titanium				
Tungsten				
Vanadium	477	500	95.4	80-120
Zinc	481	500	96.2	80-120

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JB67898
 Account: LANGAN - Langan Engineering & Environmental
 Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

QC Batch ID: MP79781
 Matrix Type: AQUEOUS

Methods: SW846 6010C
 Units: ug/l

Prep Date: 05/30/14

Metal	LCS Result	Spike lot MPLCW3	% Rec	QC Limits

Zirconium

Associated samples MP79781: JB67898-4

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JB67898
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

QC Batch ID: MP79896
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 06/05/14

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.20	.031	.064	0.011	<0.20

Associated samples MP79896: JB67898-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JB67898
 Account: LANGAN - Langan Engineering & Environmental
 Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

QC Batch ID: MP79896
 Matrix Type: AQUEOUS

Methods: SW846 7470A
 Units: ug/l

Prep Date: 06/05/14

Metal	LCS Result	Spike lot HGPW3	% Rec	QC Limits
Mercury	2.0	2	100.0	80-120

Associated samples MP79896: JB67898-4

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JB67898
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

QC Batch ID: MP79976
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 06/11/14

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.033	.0063	.0075	-0.012	<0.033

Associated samples MP79976: JB67898-1, JB67898-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JB67898
 Account: LANGAN - Langan Engineering & Environmental
 Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

QC Batch ID: MP79976
 Matrix Type: SOLID

Methods: SW846 7471B
 Units: mg/kg

Prep Date: 06/11/14

Metal	JB67912-9A		SpikeLot		QC
	Original	MS	HGPWS1	% Rec	Limits
Mercury	0.095	0.50	0.363	111.6	75-125

Associated samples MP79976: JB67898-1, JB67898-2

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JB67898
 Account: LANGAN - Langan Engineering & Environmental
 Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

QC Batch ID: MP79976
 Matrix Type: SOLID

Methods: SW846 7471B
 Units: mg/kg

Prep Date: 06/11/14

Metal	JB67912-9A Original MSD	SpikeLot HGPWS1	% Rec	MSD RPD	QC Limit
Mercury	0.095 0.45	0.363	97.9	10.5	20

Associated samples MP79976: JB67898-1, JB67898-2

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JB67898
 Account: LANGAN - Langan Engineering & Environmental
 Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

QC Batch ID: MP79976
 Matrix Type: SOLID

Methods: SW846 7471B
 Units: mg/kg

Prep Date: 06/11/14

Metal	LCS Result	Spike lot HGLCS54082% Rec	QC Limits
Mercury	6.4	5.76	111.1 71-129

Associated samples MP79976: JB67898-1, JB67898-2

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested

Instrument Detection Limits

Page 1 of 4

Job Number: JB67898

Account: LANGAN Langan Engineering & Environmental

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Instrument ID: LEEMANHG5

Effective Date: 03/17/14

Analyte	IDL ug/l
Mercury	.038

The above applies to the following instrument runs:
MA34211

10.10
10

Instrument Detection Limits

Page 2 of 4

Job Number: JB67898

Account: LANGAN Langan Engineering & Environmental

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Instrument ID: LEEMANHG8

Effective Date: 05/19/14

Analyte	IDL ug/l
Mercury	.0314

The above applies to the following instrument runs:
MA34168

10.10
10

Instrument Detection Limits

Page 3 of 4

Job Number: JB67898

Account: LANGAN Langan Engineering & Environmental

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Instrument ID: SSTRACE1

Effective Date: 03/20/14

Analyte	IDL ug/l
Aluminum	6.7
Antimony	1.3
Arsenic	1.2
Barium	.2
Beryllium	.04
Bismuth	1.2
Boron	1.2
Cadmium	.2
Calcium	8.7
Chromium	.3
Cobalt	.4
Copper	.5
Iron	3.8
Lead	1.3
Lithium	.8
Magnesium	12.3
Manganese	.04
Molybdenum	.5
Nickel	.7
Palladium	1
Potassium	16.5
Selenium	2
Silicon	8.4
Silver	.3
Sodium	7.1
Sulfur	4.4
Strontium	.09
Thallium	1.4
Tin	.8
Titanium	.4
Tungsten	10.6
Vanadium	.3
Zinc	1.5
Zirconium	.6

The above applies to the following instrument runs:
MA34145,MA34154

10.10
10

Instrument Detection Limits

Page 4 of 4

Job Number: JB67898

Account: LANGAN Langan Engineering & Environmental

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Instrument ID: SSTRACE2

Effective Date: 03/13/14

Analyte	IDL ug/l
Aluminum	5.9
Antimony	.8
Arsenic	.8
Barium	.3
Beryllium	.09
Bismuth	1.4
Boron	.7
Cadmium	.2
Calcium	8.7
Chromium	.3
Cobalt	.3
Copper	2.2
Iron	5.5
Lead	.9
Lithium	1
Magnesium	18.5
Manganese	.2
Molybdenum	.4
Nickel	.4
Palladium	1.7
Potassium	36.9
Selenium	1.7
Silicon	5.4
Silver	.3
Sodium	6.1
Sulfur	4.3
Strontium	.1
Thallium	1.3
Tin	.6
Titanium	.3
Tungsten	5.8
Vanadium	.3
Zinc	.4
Zirconium	.3

The above applies to the following instrument runs:
MA34133

10.10
10

Instrument Linear Ranges

Page 1 of 4

Job Number: JB67898

Account: LANGAN Langan Engineering & Environmental

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Instrument ID: LEEMANHG5

Effective Date: 05/13/13

Analyte	Linear Range ug/l
Mercury	5

The above applies to the following instrument runs:
MA34211

10.10
10

Instrument Linear Ranges

Job Number: JB67898
Account: LANGAN Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Instrument ID: LEEMANHG8	Effective Date: 05/13/13

Analyte	Linear Range ug/l
Mercury	5

The above applies to the following instrument runs:
MA34168

Instrument Linear Ranges

Job Number: JB67898

Account: LANGAN Langan Engineering & Environmental

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Instrument ID: SSTRACE1

Effective Date: 03/25/14

Analyte	Linear Range ug/l
Aluminum	1000000
Antimony	50000
Arsenic	10000
Barium	50000
Beryllium	25000
Bismuth	50000
Boron	50000
Cadmium	10000
Calcium	500000
Chromium	50000
Cobalt	25000
Copper	25000
Iron	500000
Lead	25000
Lithium	50000
Magnesium	1000000
Manganese	10000
Molybdenum	50000
Nickel	25000
Palladium	50000
Potassium	1000000
Selenium	50000
Silicon	50000
Silver	2000
Sodium	1000000
Sulfur	100000
Strontium	25000
Thallium	25000
Tin	50000
Titanium	50000
Tungsten	25000
Vanadium	50000
Zinc	50000
Zirconium	50000

The above applies to the following instrument runs:
MA34145,MA34154

Instrument Linear Ranges

Page 4 of 4

Job Number: JB67898

Account: LANGAN Langan Engineering & Environmental

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Instrument ID: SSTRACE2

Effective Date: 01/29/14

Analyte	Linear Range ug/l
Aluminum	1000000
Antimony	25000
Arsenic	10000
Barium	50000
Beryllium	10000
Bismuth	50000
Boron	50000
Cadmium	10000
Calcium	1000000
Chromium	50000
Cobalt	25000
Copper	50000
Iron	500000
Lead	25000
Lithium	50000
Magnesium	500000
Manganese	10000
Molybdenum	50000
Nickel	50000
Palladium	50000
Potassium	500000
Selenium	50000
Silicon	50000
Silver	2000
Sodium	500000
Sulfur	100000
Strontium	25000
Thallium	25000
Tin	50000
Titanium	50000
Tungsten	10000
Vanadium	50000
Zinc	50000
Zirconium	25000

The above applies to the following instrument runs:
MA34133

10.10
10

Metals Analysis

Raw Data

Sample Name: STDA										Acquired: 5/30/2014 10:21:44		Type: Cal		Zoom In Zoom Out	
Method: Accutest1(v93)										Mode: IR		Corr. Factor: 1.000000			
User: admin		Custom ID1:		Custom ID2:		Custom ID3:									
Comment:															
Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280						
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S						
Avg	.0042	-0.001	.0007	-0.002	.0000	.0019	.0000	-0.010	.0000						
Stddev	.0003	.0001	.0001	.0000	.0000	.0000	.0000	.0000	.0000						
%RSD	7.320	200.5	18.82	7.808	46.53	5979	10.86	1.071	80.18						
#1	.0044	.0000	.0008	-0.002	.0000	.0019	.0000	-0.010	.0000						
#2	.0040	-0.001	.0006	-0.002	.0000	.0020	.0000	-0.010	.0000						
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179						
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S						
Avg	-0.0001	.0013	.0000	-0.002	-0.003	.0005	.0009	.0004	.0046						
Stddev	.0000	.0001	.0000	.0000	.0002	.0002	.0000	.0003	.0000						
%RSD	15.72	3.882	420.9	4.691	54.17	35.99	2.456	82.16	.7381						
#1	-0.0001	.0014	.0000	-0.002	-0.002	.0006	.0008	.0002	.0046						
#2	-0.0001	.0013	.0000	-0.002	-0.004	.0004	.0009	.0006	.0045						
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899						
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S						
Avg	.0001	.0000	-0.0003	.0033	.0008	.0006	.0000	.0076	.0005						
Stddev	.0001	.000	.0006	.0000	.0000	.0003	.000	.0002	.0001						
%RSD	103.8	36.25	217.3	.0847	4.820	52.20	121.6	3.047	20.36						
#1	.0001	.0000	.0001	.0033	.0008	.0008	-0.0001	.0078	.0004						
#2	.0000	.0000	-0.0007	.0033	.0008	.0004	.0000	.0074	.0006						
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707								
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S								
Avg	-0.0007	-0.0002	.0015	-0.003	.0006	-0.012	-0.017								
Stddev	.0001	.0000	.0005	.0000	.0001	.0002	.0006								
%RSD	8.814	4.683	32.13	15.56	13.57	20.24	33.05								
#1	-0.0008	-0.0002	.0019	-0.0003	.0006	-0.0010	-0.0013								
#2	-0.0007	-0.0001	.0012	-0.0003	.0005	-0.0014	-0.0021								
Int. Std.	Y_3600	Y_3710	Y_2243	In2306											
Units	Cts/S	Cts/S	Cts/S	Cts/S											
Avg	92964.	13741.	1655.2	5696.9											
Stddev	231.	45.	1.6	3.5											
%RSD	.24804	.33077	.09615	.06202											
#1	92801.	13709.	1654.1	5694.4											
#2	93127.	13773.	1656.3	5699.4											
Raw Data MA34133 page 1 of 227															

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Sample Name: ccvconf Acquired: 5/30/2014 10:34:02 Type: QC										Zoom In Zoom Out	
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000											
User: admin Custom ID1: Custom ID2: Custom ID3:											
Comment:											
Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280		
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm		
Avg	2.034	2.068	1.948	1.963	2.023	2.080	F 2.130	1.998	2572		
Stddev	.007	.009	.011	.007	.002	.005	.004	.005	.0010		
%RSD	.3233	.4239	.5519	.3603	.1075	.2633	.1750	.2695	.4040		
#1	2.039	2.074	1.941	1.958	2.021	2.076	2.128	1.995	2565		
#2	2.029	2.061	1.956	1.968	2.024	2.084	2.133	2.002	2580		
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass		
Value							2.000				
Range							5.000%				
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179		
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm		
Avg	F 2.145	1.998	1.926	2.049	2.018	1.940	1.947	41.62	39.34		
Stddev	.006	.007	.008	.004	.003	.004	.005	.16	.12		
%RSD	.2888	.3289	.4304	.2086	.1355	.2274	.2752	.3882	.3023		
#1	2.141	1.993	1.920	2.052	2.017	1.936	1.943	41.73	39.42		
#2	2.150	2.003	1.931	2.046	2.020	1.943	1.951	41.50	39.26		
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass		
Value	2.000										
Range	5.000%										
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899		
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm		
Avg	40.21	39.52	40.80	41.71	1.949	1.990	2.030	4.861	1.974		
Stddev	.17	.07	.15	.14	.008	.004	.006	.008	.007		
%RSD	.4286	.1685	.3731	.3304	.3947	.1791	.2862	.1674	.3729		
#1	40.33	39.57	40.90	41.81	1.944	1.988	2.026	4.855	1.969		
#2	40.08	39.47	40.69	41.62	1.955	1.993	2.034	4.867	1.979		
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass		
Value											
Range											

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Sample Name: STDB										Acquired: 5/30/2014 10:28:01		Type: Cal		Zoom In		Zoom Out	
Method: Accutest1(v93)										Mode: IR		Corr. Factor: 1.000000					
User: admin		Custom ID1:		Custom ID2:		Custom ID3:											
Comment:																	
Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280								
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S								
Avg	12.54	10.60	5.076	1.524	.3053	1.098	.7889	1.169	.0706								
Stddev	.01	.00	.013	.006	.0006	.008	.0032	.004	.0002								
%RSD	.0477	.0263	.2471	.3764	.1920	.7641	.4033	.3861	.3205								
#1	12.53	10.60	5.067	1.520	.3049	1.092	.7866	1.166	.0705								
#2	12.54	10.60	5.085	1.528	.3057	1.104	.7911	1.172	.0708								
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179								
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S								
Avg	.5741	3.827	.8617	.1535	.5171	.4996	1.147	3.713	5.164								
Stddev	.0042	.013	.0001	.0007	.0023	.0011	.003	.002	.006								
%RSD	.7304	.3402	.0142	.4498	.4401	.2134	.2501	.0543	.1207								
#1	.5711	3.818	.8618	.1540	.5155	.5004	1.145	3.715	5.160								
#2	.5770	3.836	.8616	.1530	.5187	.4989	1.149	3.712	5.168								
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899								
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S								
Avg	3.007	.3917	2.275	7.929	1.219	4.604	.2515	3.335	.7611								
Stddev	.003	.0008	.003	.007	.002	.016	.0016	.008	.0003								
%RSD	.0849	.2163	.1435	.0844	.1887	.3376	.6458	.2354	.0331								
#1	3.006	.3911	2.272	7.924	1.217	4.593	.2503	3.330	.7609								
#2	3.009	.3923	2.277	7.934	1.220	4.615	.2526	3.341	.7613								
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707										
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S										
Avg	17.08	.6336	2.134	1.548	.3392	1.665	3.328										
Stddev	.00	.0023	.023	.005	.0007	.004	.004										
%RSD	.0146	.3583	1.097	.3178	.1982	.2535	.1142										
#1	17.08	.6320	2.117	1.545	.3396	1.662	3.325										
#2	17.09	.6352	2.150	1.552	.3387	1.668	3.330										
Int. Std.	Y_3600	Y_3710	Y_2243	In2306													
Units	Cts/S	Cts/S	Cts/S	Cts/S													
Avg	86593.	13516.	1514.0	4930.6													
Stddev	446.	12.	2.5	15.4													
%RSD	.51490	.08567	.16289	.31169													
#1	86908.	13524.	1515.8	4941.5													
#2	86278.	13508.	1512.3	4919.8													
Raw Data MA34133 page 2 of 227																	

Sample Name: ccbconf Acquired: 5/30/2014 10:40:05 Type: QC Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000 User: admin Custom ID1: Custom ID2: Custom ID3: Comment:									
Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0000	.0004	.0000	.0000	.0003	.0000	.0001	.0003
Stddev	.0000	.000	.0001	.000	.000	.0002	.0000	.0001	.0001
%RSD	27.30	86.32	20.72	2145.	705.6	61.20	2200.	66.67	23.47
#1	.0001	.0000	.0003	-.0001	-.0003	-.0005	.0000	-.0001	-.0003
#2	.0001	-.0001	.0004	.0000	.0002	-.0002	.0000	-.0002	-.0004
Check ? High Limit Low Limit	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0011	.0007	.0006	.0005	.0009	.0007	.0012	.0089
Stddev	.0000	.0001	.0001	.0005	.0004	.0013	.0009	.0008	.0014
%RSD	5.329	13.86	14.27	78.89	79.24	134.9	128.7	66.73	15.46
#1	.0004	-.0012	.0008	.0003	-.0002	.0018	.0001	.0007	-.0080
#2	.0003	-.0010	.0006	.0010	-.0009	.0000	.0014	.0018	-.0099
Check ? High Limit Low Limit	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0027	.0122	.0116	.0016	.0024	F_0034	.0002	.0012	.0002
Stddev	.0001	.0045	.0053	.0011	.0003	.0003	.0005	.0001	.0001
%RSD	4.115	37.06	45.75	66.73	11.57	9.297	262.9	12.06	25.15
#1	.0028	.0090	.0078	.0008	.0026	.0036	.0006	.0013	-.0002
#2	.0026	.0153	.0153	.0023	.0022	.0032	-.0002	.0011	-.0002
Check ? High Limit Low Limit	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass

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Sample Name: icv Acquired: 5/30/2014 10:47:51 Type: QC Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000 User: admin Custom ID1: Custom ID2: Custom ID3: Comment:									
Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.002	2.037	1.950	1.958	2.007	1.968	2.060	1.989	2.492
Stddev	.002	.002	.008	.005	.007	.003	.004	.006	.0009
%RSD	.0973	.1042	.4121	.2703	.3557	.1573	.2192	.3228	.3521
#1	2.002	2.040	1.946	1.955	1.998	1.972	2.055	1.984	.2488
#2	2.004	2.036	1.945	1.954	2.011	1.967	2.064	1.986	.2502
#3	2.000	2.037	1.959	1.964	2.010	1.966	2.061	1.996	.2486
Check ? Value Range	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.024	1.998	1.929	2.012	1.997	1.922	1.928	40.10	40.04
Stddev	.004	.009	.012	.008	.005	.011	.008	.03	.07
%RSD	.2012	.4405	.6085	.3922	.2583	.5572	.3924	.0743	.1673
#1	2.022	1.994	1.919	2.003	1.998	1.914	1.923	40.10	40.11
#2	2.029	1.992	1.926	2.015	1.991	1.919	1.924	40.07	40.03
#3	2.022	2.008	1.942	2.017	2.001	1.934	1.936	40.13	39.97
Check ? Value Range	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.49	40.14	39.97	40.44	1.947	1.972	1.958	4.827	1.989
Stddev	.05	.13	.04	.01	.008	.009	.002	.017	.012
%RSD	.1329	.3116	.0962	.0356	.4024	.4410	.0823	.3451	.5991
#1	40.53	40.28	39.98	40.44	1.942	1.967	1.960	4.817	1.979
#2	40.51	40.10	39.92	40.42	1.942	1.968	1.957	4.816	1.986
#3	40.43	40.04	39.99	40.45	1.956	1.982	1.959	4.846	2.002
Check ? Value Range	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass

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Sample Name: ccbconf Acquired: 5/30/2014 10:40:05 Type: QC Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000 User: admin Custom ID1: Custom ID2: Custom ID3: Comment:									
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm		
Avg	.0001	.0005	F_0383	F_0017	.0014	.0000	.0008		
Stddev	.0000	.0001	.0034	.0002	.0031	.0002	.0007		
%RSD	46.47	21.06	8.972	9.328	229.2	701.5	79.69		
#1	.0001	.0004	.0407	.0018	.0036	-.0001	.0004		
#2	.0001	.0006	.0358	.0016	-.0009	.0002	.0013		
Check ? High Limit Low Limit	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Units	Cts/S	Cts/S	Cts/S	Cts/S					
Avg	93002.	13484.	1663.2	5699.8					
Stddev	113.	60.	1.4	9.7					
%RSD	.12153	.44802	.08523	.16969					
#1	92922.	13441.	1664.2	5706.6					
#2	93082.	13527.	1662.2	5693.0					
Check ? Value Range	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Units	Cts/S	Cts/S	Cts/S	Cts/S					
Avg	89508.	13471.	1615.4	5268.0					
Stddev	149.	35.	5.4	10.3					
%RSD	.16608	.26104	.33269	.19461					
#1	89665.	13432.	1617.4	5265.6					
#2	89370.	13480.	1619.5	5279.3					
#3	89488.	13500.	1609.3	5259.2					
Check ? Value Range	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass		

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Sample Name: icv Acquired: 5/30/2014 10:47:51 Type: QC Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000 User: admin Custom ID1: Custom ID2: Custom ID3: Comment:									
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm		
Avg	1.995	2.011	1.968	2.018	1.915	1.929	1.992		
Stddev	.002	.002	.021	.002	.009	.007	.004		
%RSD	.1135	.0962	1.079	.0752	.4834	.3861	.2067		
#1	1.995	2.009	1.948	2.017	1.907	1.923	1.988		
#2	1.998	2.013	1.966	2.020	1.912	1.925	1.996		
#3	1.993	2.011	1.990	2.018	1.925	1.937	1.993		
Check ? Value Range	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Units	Cts/S	Cts/S	Cts/S	Cts/S					
Avg	89508.	13471.	1615.4	5268.0					
Stddev	149.	35.	5.4	10.3					
%RSD	.16608	.26104	.33269	.19461					
#1	89665.	13432.	1617.4	5265.6					
#2	89370.	13480.	1619.5	5279.3					
#3	89488.	13500.	1609.3	5259.2					
Check ? Value Range	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass		

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Sample Name: icb Acquired: 5/30/2014 11:03:14 Type: QC									
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000									
User: admin Custom ID1: Custom ID2: Custom ID3:									
Comment:									
Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0000	.0002	.0001	.0005	.0005	.0000	.0002	.0003
Stddev	.0000	.000	.0002	.0000	.0005	.0000	.0001	.0001	.0002
%RSD	20.16	158.0	76.89	10.31	86.76	8.998	290.1	71.89	52.41
#1	.0002	.0000	.0001	.0001	.0009	.0006	.0000	.0002	.0004
#2	.0002	.0000	.0003	.0001	.0002	.0005	.0001	.0001	.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0012	.0015	.0006	.0002	.0002	.0011	.0079	.0076
Stddev	.0001	.0001	.0001	.0009	.0013	.0008	.0013	.0035	.0009
%RSD	103.1	6.229	3.929	167.1	586.4	423.2	116.5	44.23	11.29
#1	.0002	.0012	.0014	.0001	.0007	.0004	.0002	.0054	.0083
#2	.0000	.0011	.0015	.0012	.0012	.0007	.0020	.0103	.0070
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0012	.0040	.0075	.0023	F_0021	.0002	.0015	.0004
Stddev	.0006	.0017	.0039	.0097	.0003	.0001	.0005	.0009	.0005
%RSD	252.9	150.8	97.97	129.5	13.59	5.092	219.5	60.78	146.2
#1	.0006	.0024	.0012	.0144	.0021	.0022	.0001	.0009	.0000
#2	.0002	.0001	.0067	.0006	.0025	.0021	.0005	.0022	.0008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0020			
Low Limit						.0020			

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Sample Name: iccv Acquired: 5/30/2014 11:08:16 Type: QC									
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000									
User: admin Custom ID1: Custom ID2: Custom ID3:									
Comment:									
Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.985	2.028	2.002	2.007	2.069	1.958	2.090	2.044	2.510
Stddev	.012	.011	.003	.003	.017	.022	.020	.004	.0023
%RSD	.6136	.5605	.1524	.1376	.8198	1.138	.9719	.2189	.9112
#1	1.970	2.017	1.999	2.004	2.048	1.930	2.065	2.040	.2481
#2	1.981	2.022	2.002	2.006	2.066	1.949	2.084	2.040	.2506
#3	1.990	2.032	2.006	2.010	2.075	1.976	2.096	2.048	.2519
#4	1.999	2.043	2.001	2.008	2.088	1.976	2.113	2.047	.2535
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value Range									
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.020	2.059	1.989	2.046	2.052	1.972	1.979	39.22	40.79
Stddev	.022	.003	.005	.009	.008	.008	.006	.22	.28
%RSD	1.112	.1422	.2342	.4425	.3722	.4216	.3114	.5699	.6751
#1	1.993	2.056	1.982	2.035	2.043	1.962	1.973	39.00	40.61
#2	2.011	2.056	1.989	2.043	2.047	1.970	1.975	39.09	40.55
#3	2.029	2.062	1.993	2.048	2.058	1.976	1.986	39.29	40.86
#4	2.045	2.060	1.991	2.056	2.057	1.981	1.983	39.50	41.15
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value Range									
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	41.08	40.84	39.51	39.56	1.999	2.030	1.973	4.956	2.047
Stddev	.29	.31	.22	.20	.006	.010	.020	.016	.001
%RSD	.6983	.7682	.5674	.5124	.2794	.5098	.9907	.3298	.0393
#1	40.89	40.68	39.29	39.35	1.991	2.017	1.946	4.935	2.048
#2	40.84	40.54	39.35	39.43	1.999	2.027	1.971	4.950	2.047
#3	41.14	40.87	39.66	39.66	2.003	2.038	1.988	4.972	2.048
#4	41.46	41.27	39.75	39.79	2.003	2.039	1.986	4.965	2.046
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value Range									

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Sample Name: icb Acquired: 5/30/2014 11:03:14 Type: QC									
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000									
User: admin Custom ID1: Custom ID2: Custom ID3:									
Comment:									
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm		
Avg	.0001	.0005	F_0338	F_0013	.0014	.0002	.0002		
Stddev	.0000	.0001	.0010	.0003	.0033	.0003	.0008		
%RSD	5.409	29.61	2.920	21.47	241.3	171.9	345.7		
#1	.0001	.0004	.0345	.0011	.0010	.0004	.0008		
#2	.0001	.0006	.0331	.0015	.0037	.0000	.0003		
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass		
High Limit			.0123	.0010					
Low Limit			.0123	.0010					
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Units	Cts/S	Cts/S	Cts/S	Cts/S					
Avg	95555.	13670.	1690.5	5787.2					
Stddev	260.	55.	8.3	13.7					
%RSD	.27187	.40342	.49186	.23669					
#1	95371.	13631.	1696.3	5796.9					
#2	95739.	13709.	1684.6	5777.5					

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Sample Name: iccv Acquired: 5/30/2014 11:08:16 Type: QC									
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000									
User: admin Custom ID1: Custom ID2: Custom ID3:									
Comment:									
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm		
Avg	2.016	2.038	2.047	2.066	1.964	1.979	1.990		
Stddev	.014	.020	.021	.018	.009	.004	.014		
%RSD	.7006	.9846	1.016	.8672	.4657	.2185	.6836		
#1	2.000	2.014	2.022	2.044	1.952	1.973	1.974		
#2	2.011	2.031	2.037	2.060	1.961	1.979	1.984		
#3	2.022	2.047	2.062	2.078	1.972	1.982	1.997		
#4	2.032	2.060	2.066	2.083	1.970	1.982	2.004		
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass		
Value Range									
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Units	Cts/S	Cts/S	Cts/S	Cts/S					
Avg	89029.	13470.	1585.0	5179.8					
Stddev	813.	98.	2.1	10.8					
%RSD	.91335	.73031	.13184	.20838					
#1	90033.	13479.	1587.9	5194.7					
#2	89216.	13589.	1584.4	5180.6					
#3	88775.	13464.	1582.9	5172.1					
#4	88093.	13348.	1585.0	5171.6					

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Sample Name: ccb Acquired: 5/30/2014 11:24:42 Type: QC Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000 User: admin Custom ID1: Custom ID2: Custom ID3: Comment:									
Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	.0001	.0003	.0002	.0000	.0004	.0002	.0002	.0002
Stddev	.0001	.0000	.0002	.0001	.000	.0001	.0000	.0000	.0001
%RSD	31.50	14.20	66.48	45.90	172.5	15.77	8.299	14.83	60.41
#1	.0005	.0001	.0001	.0003	.0000	-.0003	.0002	-.0001	-.0001
#2	.0003	.0002	.0004	.0001	.0000	-.0004	.0002	-.0002	-.0003
Check ? High Limit Low Limit	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	.0010	.0005	.0003	.0003	.0004	.0009	.0067	.0051
Stddev	.0002	.0003	.0007	.0010	.0006	.0017	.0003	.0071	.0001
%RSD	52.40	31.60	139.1	388.3	208.2	443.7	29.25	106.5	1.897
#1	.0002	-.0012	.0000	.0010	.0007	-.0008	.0011	.0118	-.0050
#2	.0005	-.0008	.0010	-.0005	-.0001	.0016	.0007	.0017	-.0051
Check ? High Limit Low Limit	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0047	.0212	.0149	.0054	.0012	F_.0023	.0007	.0012	.0000
Stddev	.0005	.0014	.0032	.0022	.0006	.0000	.0007	.0006	.000
%RSD	10.66	6.727	21.56	40.90	51.27	.0017	87.73	53.28	1071.
#1	.0043	.0202	.0171	.0070	.0008	.0023	.0012	.0016	.0002
#2	.0050	.0222	.0126	.0039	.0016	.0023	.0003	.0007	-.0002
Check ? High Limit Low Limit	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail .0020 -.0020	Chk Pass	Chk Pass	Chk Pass

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Sample Name: cri Acquired: 5/30/2014 11:32:28 Type: QC Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000 User: admin Custom ID1: Custom ID2: Custom ID3: Comment:									
Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2078	.0023	.0034	.0502	.0109	.0098	.0169	.0099	.0051
Stddev	.0000	.0000	.0000	.0004	.0003	.0003	.0001	.0002	.0000
%RSD	.0045	1.583	.1895	.7284	2.446	3.272	.5334	2.203	.5042
#1	.2078	.0023	.0034	.0505	.0108	.0096	.0169	.0101	.0051
#2	.2078	.0024	.0034	.0499	.0111	.0100	.0170	.0098	.0051
Check ? Value Range	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0547	.0216	.0092	.0092	.0038	.0098	.0069	.2131	5.156
Stddev	.0002	.0002	.0004	.0004	.0002	.0010	.0000	.0027	.000
%RSD	.2977	1.003	4.522	4.185	5.513	10.37	.2635	1.256	.0055
#1	.0548	.0218	.0089	.0095	.0036	.0091	.0069	.2150	5.157
#2	.0546	.0214	.0095	.0089	.0039	.0105	.0069	.2112	5.156
Check ? Value Range	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1083	5.335	5.234	5.228	.1024	.0223	.0565	.2056	.0105
Stddev	.0019	.053	.013	.001	.0003	.0001	.0007	.0000	.0011
%RSD	1.713	.9995	.2405	.0138	.2509	.3393	1.237	.0074	10.17
#1	.1070	5.373	5.225	5.228	.1026	.0224	.0570	.2056	.0098
#2	.1097	5.297	5.243	5.229	.1022	.0223	.0560	.2056	.0113
Check ? Value Range	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass

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Sample Name: ccb Acquired: 5/30/2014 11:24:42 Type: QC Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000 User: admin Custom ID1: Custom ID2: Custom ID3: Comment:									
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm		
Avg	.0002	.0005	F_.0332	F_.0014	.0007	.0003	.0008		
Stddev	.0000	.0000	.0021	.0000	.0038	.0000	.0002		
%RSD	9.856	6.765	6.302	.6947	554.0	1.641	26.40		
#1	.0002	.0005	.0347	.0015	.0033	.0003	.0006		
#2	.0002	.0005	.0317	.0014	-.0020	.0003	.0009		
Check ? High Limit Low Limit	Chk Pass	Chk Pass	Chk Fail .0123 -.0123	Chk Fail .0010 -.0010	Chk Pass	Chk Pass	Chk Pass		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Units	Cts/S	Cts/S	Cts/S	Cts/S					
Avg	94828.	13688.	1699.9	5815.4					
Stddev	140.	55.	3.8	3.2					
%RSD	.14756	.40567	.22404	.05453					
#1	94729.	13707.	1702.6	5813.1					
#2	94927.	13629.	1697.2	5817.6					

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Sample Name: cri Acquired: 5/30/2014 11:32:28 Type: QC Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000 User: admin Custom ID1: Custom ID2: Custom ID3: Comment:									
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm		
Avg	.0107	.0117	F_.0870	F_.0132	.0491	.0204	.0229		
Stddev	.0000	.0002	.0016	.0001	.0003	.0007	.0002		
%RSD	.3791	1.523	1.852	.5482	.5222	3.342	1.049		
#1	.0106	.0116	.0881	.0131	.0489	.0209	.0231		
#2	.0107	.0118	.0858	.0132	.0493	.0199	.0228		
Check ? Value Range	Chk Pass	Chk Pass	Chk Fail .0500 30.00%	Chk Fail .0100 30.00%	Chk Pass	Chk Pass	Chk Pass		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Units	Cts/S	Cts/S	Cts/S	Cts/S					
Avg	92229.	13411.	1676.4	5651.8					
Stddev	231.	47.	.5	.5					
%RSD	.25014	.35170	.03228	.00964					
#1	92392.	13445.	1676.1	5652.2					
#2	92066.	13378.	1676.8	5651.4					

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Sample Name: crid Acquired: 5/30/2014 11:38:43 Type: QC									
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000									
User: admin Custom ID1: Custom ID2: Custom ID3:									
Comment:									
Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0042	.0011	.0011	.0027	.0020	.0014	.0032	.0037	.0009
Stddev	.0000	.0000	.0001	.0002	.0001	.0000	.0000	.0002	.0002
%RSD	.6142	3.057	5.817	6.859	5.826	.7351	.5948	6.694	22.01
#1	.0042	.0010	.0010	.0029	.0021	.0014	.0032	.0035	.0008
#2	.0043	.0011	.0011	.0026	.0019	.0014	.0032	.0039	.0010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0021	.0102	.0037	.0021	.0025	.0061	.0038	.1111	1.039
Stddev	.0001	.0001	.0009	.0005	.0003	.0005	.0020	.0043	.007
%RSD	3.153	.6107	24.46	23.64	11.25	8.315	53.04	3.890	.7149
#1	.0022	.0102	.0044	.0025	.0023	.0057	.0052	.1142	1.045
#2	.0021	.0102	.0031	.0018	.0027	.0065	.0023	.1081	1.034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0019	.1096	2.099	1.034	.0107	.0010	.0001	-.0006	.0006
Stddev	.0000	.0299	.026	.006	.0001	.0000	.0007	.0006	.0005
%RSD	.6919	27.24	1.234	.6168	1.379	4.818	485.2	106.9	70.02
#1	.0019	.0885	2.081	1.038	.0106	.0010	.0006	-.0001	.0010
#2	.0019	.1307	2.118	1.029	.0108	.0009	-.0003	-.0010	.0003
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	None	None	None
Value									
Range									

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Sample Name: cria Acquired: 5/30/2014 11:45:02 Type: QC									
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000									
User: admin Custom ID1: Custom ID2: Custom ID3:									
Comment:									
Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0000	.0001	.0002	-.0004	-.0008	-.0001	-.0003	-.0003
Stddev	.0000	.000	.0002	.0001	.0002	.0001	.0001	.0002	.0002
%RSD	6.808	121.4	245.1	30.59	63.37	7.321	96.68	60.83	70.64
#1	.0003	.0000	.0002	.0002	-.0005	-.0008	-.0001	-.0005	-.0002
#2	.0003	.0000	-.0001	.0003	-.0002	-.0009	.0000	-.0002	-.0005
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	-.0009	.0201	-.0006	.0214	.0202	.0199	.5099	.0000
Stddev	.0002	.0000	.0002	.0020	.0002	.0004	.0000	.0028	.002
%RSD	143.8	.6766	.9955	336.1	.7702	1.891	.0849	.5458	4786.
#1	.0002	-.0009	.0202	-.0020	.0212	.0199	.0199	.5119	.0013
#2	.0000	-.0009	.0199	.0008	.0215	.0205	.0199	.5080	-.0014
Check ?	None	None	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value									
Range									
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5366	.0025	.0007	-.0033	.0009	.0008	.0006	-.0017	-.0005
Stddev	.0042	.0159	.0052	.0005	.0002	.0002	.0006	.0007	.0000
%RSD	.7787	638.1	773.6	16.15	28.64	27.80	113.2	39.56	5.459
#1	.5395	-.0088	-.0030	-.0036	.0007	.0006	.0010	-.0022	-.0005
#2	.5336	.0137	.0043	-.0029	.0010	.0010	.0001	-.0012	-.0006
Check ?	Chk Pass	None	None	None	None	None	None	None	None
Value									
Range									

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Sample Name: crid Acquired: 5/30/2014 11:38:43 Type: QC									
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000									
User: admin Custom ID1: Custom ID2: Custom ID3:									
Comment:									
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm		
Avg	.0000	.0004	.0187	.0007	.0006	-.0003	.0011		
Stddev	.0000	.0001	.0014	.0000	.0007	.0010	.0003		
%RSD	88.98	14.74	7.398	.4232	122.2	387.7	32.27		
#1	.0000	.0003	.0197	.0007	.0011	.0004	.0008		
#2	.0000	.0004	.0178	.0007	.0001	-.0010	.0013		
Check ?	None	None	None	None	None	None	None		
Value									
Range									
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Units	Cts/S	Cts/S	Cts/S	Cts/S					
Avg	94338.	13554.	1690.7	5761.8					
Stddev	5.	56.	5.2	16.5					
%RSD	.00578	.41602	.30860	.28585					
#1	94335.	13515.	1694.4	5773.4					
#2	94342.	13594.	1687.0	5750.1					

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Sample Name: cria Acquired: 5/30/2014 11:45:02 Type: QC									
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000									
User: admin Custom ID1: Custom ID2: Custom ID3:									
Comment:									
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm		
Avg	.0001	.0001	.0156	.0005	.0003	-.0007	-.0001		
Stddev	.0000	.0003	.0001	.0001	.0007	.0009	.0008		
%RSD	35.13	240.8	.7635	13.91	229.3	118.9	856.6		
#1	.0001	.0004	.0157	.0005	-.0002	-.0013	.0005		
#2	.0000	-.0001	.0155	.0006	.0008	-.0001	-.0006		
Check ?	None	None	None	None	None	None	None		
Value									
Range									
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Units	Cts/S	Cts/S	Cts/S	Cts/S					
Avg	94966.	13666.	1699.3	5776.9					
Stddev	149.	6.	9.9	34.5					
%RSD	.15689	.04382	.57992	.59755					
#1	95072.	13670.	1706.2	5801.3					
#2	94861.	13662.	1692.3	5752.5					

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Sample Name: icsa Acquired: 5/30/2014 11:51:21 Type: QC Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000 User: admin Custom ID1: Custom ID2: Custom ID3: Comment:									
Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0007	.0000	.0016	.0034	-0.0010	-0.0043	.0027	.0001	.0001
Stddev	.0001	.0001	.0001	.0007	.0001	.0001	.0001	.0002	.0000
%RSD	7.732	442.3	3.560	20.03	6.386	1.396	3.689	161.9	11.76
#1	-.0007	.0001	.0016	.0039	-.0010	-.0044	.0028	.0003	.0001
#2	-.0007	.0000	.0015	.0029	-.0009	-.0043	.0026	.0000	.0001
Check ? High Limit Low Limit	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0026	-0.0006	.0002	.0021	.0016	.0143	.0094	517.9	377.7
Stddev	.0004	.0004	.0002	.0032	.0018	.0052	.0011	.1	1.1
%RSD	13.73	71.13	99.57	150.1	113.0	36.23	11.64	.0130	.2870
#1	-.0028	-.0008	.0001	-.0001	.0028	.0106	.0101	517.8	376.9
#2	-.0023	-.0003	.0004	.0044	.0003	.0180	.0086	517.9	378.5
Check ? High Limit Low Limit	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	194.1	538.5	.0114	-0.0077	-0.0115	-0.0011	-0.0172	-0.0059	.0084
Stddev	.2	1.0	.0233	.0021	.0006	.0004	.0002	.0007	.0002
%RSD	.0980	.1863	205.3	26.90	5.372	32.16	1.164	11.19	2.840
#1	194.2	539.2	-.0051	-.0062	-.0119	-.0009	-.0171	-.0055	.0086
#2	193.9	537.8	.0279	-.0091	-.0110	-.0014	-.0174	-.0064	.0083
Check ? High Limit Low Limit	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass

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Sample Name: ICSAB Acquired: 5/30/2014 11:57:46 Type: QC Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000 User: admin Custom ID1: Custom ID2: Custom ID3: Comment:									
Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5259	.5310	1.008	.4770	.4848	.5312	.5213	.9587	1.140
Stddev	.0258	.0274	.003	.0009	.0015	.0043	.0012	.0006	.005
%RSD	4.899	5.164	.2537	.1884	.3037	.8129	.2382	.0607	.4008
#1	.5077	.5116	1.006	.4764	.4858	.5281	.5204	.9583	1.136
#2	.5442	.5504	1.010	.4777	.4837	.5343	.5222	.9591	1.143
Check ? Value Range	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4833	.9461	1.117	.9247	.9555	1.049	1.017	537.5	398.4
Stddev	.0008	.0019	.003	.0023	.0011	.003	.002	24.8	23.0
%RSD	.1751	.2032	.2534	.2464	.1099	.2664	.1757	4.615	5.776
#1	.4827	.9447	1.115	.9231	.9563	1.047	1.018	520.0	382.1
#2	.4839	.9474	1.119	.9263	.9548	1.051	1.016	555.0	414.7
Check ? Value Range	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	200.8	561.8	.0021	-0.0003	-0.0140	.4884	.5367	-0.0018	.0078
Stddev	10.8	31.6	.0160	.0047	.0017	.0017	.0018	.0008	.0013
%RSD	5.373	5.615	775.6	1530.	12.26	.3438	.3408	42.48	16.12
#1	193.2	539.5	-.0093	-.0037	-.0128	.4872	.5354	-.0013	.0087
#2	208.5	584.1	.0134	.0030	-.0152	.4896	.5380	-.0024	.0069
Check ? Value Range	Chk Pass	Chk Pass	None	None	None	Chk Pass	Chk Pass	None	None

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Sample Name: icsa Acquired: 5/30/2014 11:51:21 Type: QC Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000 User: admin Custom ID1: Custom ID2: Custom ID3: Comment:									
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm		
Avg	-0.0006	.0025	.0355	F .0143	-.0485	.0010	.0048		
Stddev	.0001	.0003	.0002	.0001	.0013	.0010	.0000		
%RSD	9.887	13.47	.4858	.8121	2.606	104.6	.3049		
#1	-.0006	.0028	.0356	.0144	-.0476	.0003	.0048		
#2	-.0006	.0023	.0354	.0142	-.0494	.0017	.0048		
Check ? High Limit Low Limit	Chk Pass	Chk Pass	Chk Pass	Chk Fail .0100 -.0100	Chk Pass	Chk Pass	Chk Pass		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Units	Cts/S	Cts/S	Cts/S	Cts/S					
Avg	81486.	12974.	1505.7	4725.9					
Stddev	78.	3.	2.3	3.7					
%RSD	.09551	.02482	.15045	.07868					
#1	81541.	12977.	1507.3	4728.5					
#2	81431.	12972.	1504.1	4723.3					

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Sample Name: ICSAB Acquired: 5/30/2014 11:57:46 Type: QC Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000 User: admin Custom ID1: Custom ID2: Custom ID3: Comment:									
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm		
Avg	-0.0007	.0060	.5309	.5225	.4318	.5106	.5750		
Stddev	.0001	.0002	.0062	.0016	.0018	.0003	.0261		
%RSD	9.154	3.883	1.164	.3001	.4129	.0530	4.546		
#1	-.0006	.0061	.5265	.5213	.4305	.5108	.5565		
#2	-.0007	.0058	.5353	.5236	.4330	.5104	.5935		
Check ? Value Range	None	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Units	Cts/S	Cts/S	Cts/S	Cts/S					
Avg	81532.	12503.	1489.0	4708.4					
Stddev	108.	646.	.3	7.2					
%RSD	.13243	5.1649	.02290	.15352					
#1	81608.	12960.	1489.3	4703.3					
#2	81456.	12046.	1488.8	4713.5					

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Sample Name: icsa Acquired: 5/30/2014 12:04:03 Type: QC								
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000								
User: admin Custom ID1: Custom ID2: Custom ID3:								
Comment:								
Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.006	.0000	.0013	.0035	-.0015	-.0036	.0031	-.0003
Stddev	.0001	.0001	.0001	.0001	.0001	.0002	.0000	.0004
%RSD	20.15	1066.	5.864	3.372	3.990	6.542	1.547	136.6
#1	-.0005	.0001	.0013	.0034	-.0016	-.0038	.0031	-.0006
#2	-.0006	-.0001	.0012	.0036	-.0015	-.0034	.0031	.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								
Elem	Ag3280	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0019	-.0026	-.0007	.0005	.0018	-.0008	.0137	.0108
Stddev	.0008	.0000	.0004	.0018	.0003	.0007	.0021	.0019
%RSD	43.48	1.416	50.76	364.4	15.88	93.54	15.30	17.23
#1	.0013	-.0026	-.0010	.0017	.0020	-.0013	.0152	.0095
#2	.0024	-.0027	-.0005	-.0008	.0016	-.0003	.0122	.0122
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								
Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	518.0	386.7	196.6	546.4	.0132	-.0037	-.0116	-.0013
Stddev	5.1	2.6	.1	.2	.0022	.0011	.0000	.0000
%RSD	.9897	.6803	.0545	.0349	17.01	31.07	.3798	1.358
#1	514.3	388.6	196.5	546.2	.0116	-.0045	-.0116	-.0013
#2	521.6	384.9	196.6	546.5	.0148	-.0029	-.0115	-.0013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

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Sample Name: icsa Acquired: 5/30/2014 12:04:03 Type: QC								
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000								
User: admin Custom ID1: Custom ID2: Custom ID3:								
Comment:								
Elem	Pd3404	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0162	-.0071	.0082	-.0007	.0019	.0403	F .0183	F -.0542
Stddev	.0002	.0031	.0002	.0001	.0004	.0006	.0003	.0024
%RSD	.9536	43.26	2.507	15.79	18.53	1.541	1.584	4.351
#1	-.0161	-.0050	.0084	-.0008	.0022	.0398	.0181	-.0526
#2	-.0163	-.0093	.0081	-.0006	.0017	.0407	.0185	-.0559
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail
High Limit							.0100	.0500
Low Limit							-.0100	-.0500
Elem	Bi2230	Li6707						
Units	ppm	ppm						
Avg	.0010	.0052						
Stddev	.0008	.0004						
%RSD	78.21	7.756						
#1	.0004	.0055						
#2	.0015	.0049						
Check ?	Chk Pass	Chk Pass						
High Limit								
Low Limit								
Int. Std.	Y_3600	Y_3710	Y_2243	In2306				
Units	Cts/S	Cts/S	Cts/S	Cts/S				
Avg	81947.	12884.	1492.5	4710.4				
Stddev	143.	7.	.8	3.9				
%RSD	.17395	.05162	.05226	.08243				
#1	82048.	12888.	1493.0	4713.2				
#2	81846.	12879.	1491.9	4707.7				

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Sample Name: ICSAB Acquired: 5/30/2014 12:10:27 Type: QC									
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000									
User: admin Custom ID1: Custom ID2: Custom ID3:									
Comment:									
Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4998	.5041	.9912	.4700	.4774	.5243	.5151	.9456	1.125
Stddev	.0008	.0002	.0022	.0011	.0007	.0025	.0008	.0013	.002
%RSD	.1555	.0332	.2208	.2349	.1472	.4836	.1645	.1388	.1465
#1	.4993	.5042	.9897	.4692	.4779	.5225	.5157	.9447	1.126
#2	.5004	.5040	.9928	.4708	.4769	.5261	.5145	.9465	1.124
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value Range									
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4805	.9332	1.099	.9103	.9445	1.026	1.003	506.8	381.3
Stddev	.0003	.0040	.003	.0019	.0016	.000	.005	.0	.4
%RSD	.0651	.4294	.2293	.2120	.1729	.0210	.4733	.0038	.1090
#1	.4807	.9304	1.097	.9090	.9434	1.026	.9992	506.8	381.0
#2	.4802	.9360	1.101	.9117	.9457	1.026	1.006	506.8	381.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value Range									
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	190.8	533.0	.0049	-.0104	-.0127	.4825	.5295	.0003	.0100
Stddev	.1	.2	.0097	.0021	.0007	.0013	.0015	.0024	.0014
%RSD	.0496	.0310	198.3	19.91	5.583	.2768	.2915	794.5	13.98
#1	190.9	533.1	.0117	-.0118	-.0122	.4815	.5284	-.0014	.0090
#2	190.8	532.9	-.0020	-.0089	-.0132	.4834	.5306	.0020	.0110
Check ?	Chk Pass	Chk Pass	None	None	None	Chk Pass	Chk Pass	None	None
Value Range									

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Sample Name: ICSAB Acquired: 5/30/2014 12:10:27 Type: QC									
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000									
User: admin Custom ID1: Custom ID2: Custom ID3:									
Comment:									
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm		
Avg	-.0007	.0060	.5197	.5179	.4242	.5019	.5455		
Stddev	.0002	.0007	.0088	.0005	.0024	.0006	.0018		
%RSD	22.85	11.97	1.696	.0953	.5735	.1209	.3298		
#1	-.0006	.0055	.5135	.5176	.4259	.5015	.5442		
#2	-.0009	.0065	.5260	.5183	.4225	.5023	.5468		
Check ?	None	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass		
Value Range									
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Units	Cts/S	Cts/S	Cts/S	Cts/S					
Avg	82277.	12990.	1510.7	4760.2					
Stddev	121.	17.	3.2	.8					
%RSD	.14709	.13042	.21267	.01634					
#1	82192.	13002.	1513.0	4760.7					
#2	82363.	12978.	1508.4	4759.6					

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Sample Name: Feconf Acquired: 5/30/2014 12:16:43 Type: Unk									
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000									
User: admin Custom ID1: Custom ID2: Custom ID3:									
Comment:									
Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.0003	.0000	.0001	.0024	.0024	.0077	.0046	.0001	.0046
Stddev	.0000	.0000	.0001	.0002	.0003	.0002	.0000	.0000	.0003
%RSD	11.82	48.94	52.59	9.625	10.38	2.755	.6232	48.49	7.096
#1	.0003	.0000	.0002	.0023	.0026	.0076	.0046	.0001	.0043
#2	.0003	.0000	.0001	.0026	.0022	.0079	.0045	.0001	.0048
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0020	.0034	.0002	.0004	.0001	.0031	.0038	.0028	.0108
Stddev	.0001	.0000	.0004	.0024	.0002	.0010	.0000	.0056	.0014
%RSD	5.474	.1586	183.2	564.6	279.1	31.55	.4564	198.0	13.13
#1	.0021	.0034	.0001	.0021	.0001	.0037	.0038	.0011	.0118
#2	.0019	.0034	.0005	.0013	.0002	.0024	.0038	.0068	.0098
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.213.1	.0369	.0077	.0052	.0009	.0104	.0052	.0009	.0025
Stddev	.6	.0023	.0070	.0036	.0004	.0001	.0003	.0010	.0010
%RSD	.2653	6.295	89.84	68.18	40.35	1.258	5.646	108.7	39.03
#1	.213.5	.0386	.0127	.0027	.0006	.0105	.0054	.0016	.0032
#2	.212.7	.0353	.0028	.0077	.0011	.0103	.0050	.0002	.0018
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0001	.0002	.0090	.0019	.0057	.0046	.0000		
Stddev	.0000	.0003	.0018	.0002	.0019	.0010	.000		
%RSD	35.37	140.2	6.320	7.924	34.00	22.62	755.0		
#1	.0001	.0004	.0303	.0020	.0043	.0038	.0003		
#2	.0002	.0000	.0277	.0018	.0071	.0053	.0002		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	92710.	13547.	1669.0	5803.0					
Stddev	165.	54.	.3	5.6					
%RSD	.17802	.39596	.01711	.09583					
#1	92826.	13510.	1669.2	5799.0					
#2	92593.	13585.	1668.8	5806.9					

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Sample Name: ccv Acquired: 5/30/2014 12:29:19 Type: QC									
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000									
User: admin Custom ID1: Custom ID2: Custom ID3:									
Comment:									
Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.977	2.016	1.950	1.959	1.937	1.937	2.051	2.001	2.459
Stddev	.001	.006	.009	.007	.004	.006	.002	.004	.0005
%RSD	.0669	.3009	.4681	.3559	.2237	.3197	.0981	.2182	.2125
#1	1.976	2.012	1.943	1.954	2.001	1.933	2.053	1.998	.2463
#2	1.978	2.020	1.956	1.963	1.994	1.941	2.050	2.004	.2456
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.002	2.016	1.950	1.993	2.011	1.938	1.932	39.61	39.82
Stddev	.001	.005	.016	.014	.006	.005	.011	.02	.25
%RSD	.0573	.2436	.8299	.6767	.2947	.2733	.5802	.0532	.6208
#1	2.001	2.013	1.938	1.983	2.007	1.934	1.924	39.60	39.65
#2	2.003	2.020	1.961	2.002	2.015	1.941	1.939	39.63	40.00
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.22	40.12	39.67	40.22	1.946	1.985	1.933	4.840	2.001
Stddev	.21	.37	.14	.03	.014	.009	.006	.027	.011
%RSD	.5344	.9140	.3405	.0704	.7081	.4740	.2984	.5539	.5528
#1	40.07	39.86	39.58	40.20	1.936	1.978	1.929	4.821	1.993
#2	40.37	40.38	39.77	40.24	1.956	1.991	1.937	4.859	2.009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

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Sample Name: Crconf Acquired: 5/30/2014 12:23:00 Type: Unk									
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000									
User: admin Custom ID1: Custom ID2: Custom ID3:									
Comment:									
Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.0007	.0001	.0002	.0018	10.67	.0002	.0011	.0004	.0002
Stddev	.0001	.0000	.0000	.0001	.01	.0001	.0000	.0003	.0002
%RSD	14.41	12.29	8.168	4.708	.0725	51.84	1.609	80.74	79.81
#1	.0006	.0001	.0002	.0018	10.66	.0002	.0011	.0002	.0003
#2	.0008	.0001	.0002	.0017	10.67	.0001	.0011	.0006	.0001
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0004	.0046	.0015	.0004	.0005	.0001	.0055	.0116	.0145
Stddev	.0001	.0001	.0009	.0008	.0009	.0005	.0008	.0115	.0002
%RSD	24.81	1.492	59.18	231.5	190.0	424.9	15.48	99.11	1.614
#1	.0003	.0046	.0009	.0002	.0012	.0002	.0049	.0197	.0147
#2	.0005	.0045	.0022	.0009	.0002	.0005	.0061	.0035	.0143
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0061	.0004	.0056	.0021	.0001	.0013	.0003	.0069	.0014
Stddev	.0001	.0190	.0099	.0001	.0002	.0000	.0003	.0008	.0001
%RSD	1.028	4811.	175.9	5.306	173.0	3.040	107.3	11.67	5.112
#1	.0062	.0139	.0126	.0022	.0000	.0013	.0001	.0075	.0014
#2	.0061	.0131	.0014	.0020	.0003	.0013	.0005	.0064	.0013
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0002	.0005	.0134	.0005	.0030	.0113	.0005		
Stddev	.0000	.0001	.0007	.0001	.0018	.0001	.0003		
%RSD	16.32	28.05	5.561	28.30	60.71	.8531	54.72		
#1	.0002	.0006	.0139	.0006	.0043	.0112	.0007		
#2	.0001	.0004	.0128	.0004	.0017	.0114	.0003		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	94286.	13640.	1663.9	5765.3					
Stddev	130.	30.	5.6	6.3					
%RSD	.13783	.21838	.33850	.10950					
#1	94194.	13661.	1667.9	5769.7					
#2	94377.	13619.	1659.9	5760.8					

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Sample Name: ccv Acquired: 5/30/2014 12:29:19 Type: QC									
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000									
User: admin Custom ID1: Custom ID2: Custom ID3:									
Comment:									
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm		
Avg	1.990	1.996	1.930	2.011	1.920	1.928	1.969		
Stddev	.005	.003	.025	.000	.013	.014	.004		
%RSD	.2315	.1610	1.323	.0015	.6613	.7127	.1851		
#1	1.987	1.993	1.912	2.011	1.911	1.918	1.967		
#2	1.993	1.998	1.948	2.011	1.929	1.937	1.972		
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass		
Value									
Range									
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Units	Cts/S	Cts/S	Cts/S	Cts/S					
Avg	90824.	13526.	1626.3	5305.2					
Stddev	47.	101.	6.1	9.7					
%RSD	.05218	.75009	.37477	.18316					
#1	90791.	13598.	1630.6	5312.1					
#2	90858.	13455.	1621.9	5298.4					

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Sample Name: ccb Acquired: 5/30/2014 12:35:23 Type: QC									
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000									
User: admin Custom ID1: Custom ID2: Custom ID3:									
Comment:									
Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0001	.0002	.0001	-.0002	-.0007	.0000	.0000	.0000
Stddev	.0000	.0000	.0002	.0001	.0002	.0001	.0000	.000	.0003
%RSD	4.521	54.39	136.8	88.07	85.23	15.22	145.3	317.4	665.2
#1	.0003	.0001	.0003	.0000	-.0003	-.0008	.0000	.0000	.0003
#2	.0003	.0000	.0000	.0001	-.0001	-.0006	.0000	-.0001	-.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	-.0012	.0004	-.0001	-.0001	-.0003	.0013	.0069	-.0104
Stddev	.0003	.0001	.0003	.0005	.0002	.0011	.0014	.0007	.0009
%RSD	149.1	6.751	73.41	441.4	305.3	352.2	105.7	10.69	8.508
#1	.0000	-.0013	.0002	.0002	.0001	.0005	.0023	.0074	-.0110
#2	.0004	-.0012	.0006	-.0005	-.0002	-.0011	.0003	.0064	-.0098
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0019	.0174	.0252	-.0018	.0014	F .0024	-.0005	.0019	.0003
Stddev	.0011	.0076	.0126	.0036	.0004	.0003	.0006	.0007	.0008
%RSD	58.80	43.62	49.84	194.8	27.31	13.68	119.0	38.63	307.1
#1	.0027	.0228	.0164	-.0044	.0012	.0026	-.0009	.0014	.0008
#2	.0011	.0120	.0341	.0007	.0017	.0022	-.0001	.0025	-.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0020			
Low Limit						-.0020			

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Sample Name: crid Acquired: 5/30/2014 12:43:15 Type: QC									
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000									
User: admin Custom ID1: Custom ID2: Custom ID3:									
Comment:									
Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0044	.0010	.0012	.0031	.0019	F .0012	.0033	.0038	F .0006
Stddev	.0001	.0000	.0000	.0000	.0004	.0001	.0000	.0001	.0002
%RSD	2.682	.3948	2.293	.0445	21.85	6.949	.5577	2.789	43.96
#1	.0045	.0010	.0012	.0031	.0016	.0011	.0033	.0037	.0007
#2	.0043	.0010	.0012	.0031	.0021	.0013	.0033	.0039	.0004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail
Value						.0020			.0010
Range						-30.00%			-30.00%
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0022	.0102	.0037	.0016	.0027	.0063	.0033	.1115	1.024
Stddev	.0000	.0001	.0002	.0010	.0004	.0001	.0008	.0025	.004
%RSD	2.282	.9625	4.823	60.69	15.45	2.054	23.39	2.231	.4373
#1	.0022	.0101	.0039	.0023	.0024	.0064	.0038	.1132	1.021
#2	.0021	.0102	.0036	.0009	.0030	.0063	.0027	.1097	1.027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0027	.1248	2.086	1.040	.0108	.0010	.0005	.0000	.0004
Stddev	.0014	.0160	.016	.002	.0001	.0001	.0005	.000	.0006
%RSD	49.79	12.82	.7455	.1976	1.063	5.045	104.2	7692.	154.1
#1	.0037	.1361	2.075	1.042	.0109	.0011	.0009	.0003	.0008
#2	.0018	.1135	2.097	1.039	.0107	.0010	.0001	-.0003	.0000
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	None	None	None
Value									
Range									

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Sample Name: ccb Acquired: 5/30/2014 12:35:23 Type: QC									
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000									
User: admin Custom ID1: Custom ID2: Custom ID3:									
Comment:									
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm		
Avg	.0002	.0005	F .0310	F .0015	-.0003	.0002	.0005		
Stddev	.0000	.0001	.0037	.0001	.0022	.0009	.0003		
%RSD	16.81	15.46	11.96	5.976	701.0	373.5	68.66		
#1	.0002	.0005	.0336	.0016	-.0019	.0008	.0007		
#2	.0002	.0006	.0284	.0014	.0013	-.0004	.0002		
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass		
High Limit			.0123	.0010					
Low Limit			-.0123	-.0010					
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Units	Cts/S	Cts/S	Cts/S	Cts/S					
Avg	94088.	13542.	1698.7	5768.7					
Stddev	136.	192.	1.1	5.2					
%RSD	.14472	1.4154	.06208	.08992					
#1	94185.	13407.	1699.5	5772.4					
#2	93992.	13678.	1698.0	5765.0					

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Sample Name: crid Acquired: 5/30/2014 12:43:15 Type: QC									
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000									
User: admin Custom ID1: Custom ID2: Custom ID3:									
Comment:									
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm		
Avg	.0001	.0004	.0187	.0008	-.0012	-.0007	.0009		
Stddev	.0000	.0001	.0004	.0001	.0016	.0001	.0004		
%RSD	28.07	13.36	2.049	11.96	131.4	19.40	50.48		
#1	.0001	.0004	.0190	.0009	-.0001	-.0006	.0006		
#2	.0001	.0004	.0184	.0008	-.0023	-.0007	.0012		
Check ?	None	None	None	None	None	None	None		
Value									
Range									
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Units	Cts/S	Cts/S	Cts/S	Cts/S					
Avg	94150.	13553.	1698.9	5768.7					
Stddev	9.	17.	.1	3.5					
%RSD	.00953	.12522	.00327	.06065					
#1	94144.	13541.	1698.9	5766.2					
#2	94156.	13565.	1698.9	5771.1					

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Sample Name: jb66645-3r										Acquired: 5/30/2014 13:14:02		Type: Unk
Method: Accutest1(v93)										Mode: CONC		Corr. Factor: 1.000000
User: admin										Custom ID1:		Custom ID2:
										Custom ID3:		
Comment: soil 3rd												
Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280			
Avg	.2586	.0058	.0000	.0235	.2645	.0211	.3857	.0452	.0036			
Stddev	.0005	.0000	.0000	.0000	.0010	.0002	.0001	.0005	.0003			
%RSD	.2021	.2716	93.17	.1358	.3752	.8946	.0283	1.163	8.535			
#1	.2582	.0058	.0000	.0234	.2652	.0209	.3857	.0449	.0034			
#2	.2589	.0058	.0001	.0235	.2638	.0212	.3856	.0456	.0039			
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179			
Avg	.6687	.2699	.1730	.0034	.0830	.0072	.0038	78.17	8.833			
Stddev	.0000	.0002	.0020	.0031	.0013	.0009	.0001	.07	.003			
%RSD	.0035	.0598	1.149	92.71	1.551	12.99	1.782	.0879	.0332			
#1	.6687	.2698	.1716	.0012	.0839	.0079	.0038	78.12	8.835			
#2	.6687	.2700	.1745	.0056	.0821	.0065	.0039	78.21	8.831			
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899			
Avg	203.0	13.48	22.87	.4019	.0821	-.0092	-.0138	3.973	.0268			
Stddev	.3	.08	.02	.0035	.0003	.0003	.0004	.001	.0012			
%RSD	.1414	.5952	.0998	.8809	.3432	3.226	3.116	.0268	4.667			
#1	202.8	13.42	22.89	.4044	.0823	-.0090	-.0141	3.973	.0276			
#2	203.2	13.53	22.86	.3994	.0819	-.0094	-.0135	3.972	.0259			
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707					
Avg	.0482	1.083	.0228	.0590	.3740	-.0056	.0921					
Stddev	.0001	.002	.0006	.0002	.0018	.0002	.0003					
%RSD	.1893	.1582	2.757	.3447	.4915	2.666	.2763					
#1	.0482	1.085	.0224	.0589	.3753	-.0055	.0922					
#2	.0481	1.082	.0233	.0592	.3727	-.0057	.0919					
Int. Std.	Y_3600	Y_3710	Y_2243	In2306								
Avg	93782.	14028.	1683.0	5565.2								
Stddev	43.	23.	.0	3.2								
%RSD	.04600	.16521	.00183	.05793								
#1	93751.	14044.	1683.0	5567.5								
#2	93812.	14012.	1683.0	5562.9								

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Sample Name: jb66509-1t			Acquired: 5/30/2014 13:26:24			Type: Unk			
Method: Accutest1(v93)			Mode: CONC			Corr. Factor: 1.000000			
User: admin		Custom ID1:		Custom ID2:		Custom ID3:			
Comment: soil 3rd									
Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.1579	.0031	.0010	.0109	.2013	.0243	.1996	.0253	.0028
Stddev	.0003	.0000	.0002	.0002	.0012	.0001	.0004	.0007	.0001
%RSD	.2059	1.304	16.80	2.264	.5929	.2116	.2242	2.815	3.409
#1	.1576	.0031	.0011	.0107	.2004	.0243	.1993	.0248	.0029
#2	.1581	.0032	.0009	.0111	.2021	.0243	.2000	.0258	.0027
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.4203	.2650	.2304	.0024	.0770	.0105	.0052	89.25	3.239
Stddev	.0010	.0031	.0035	.0007	.0004	.0017	.0012	.01	.004
%RSD	.2467	1.166	1.504	27.25	.4938	16.06	22.97	.0078	.1242
#1	.4196	.2628	.2280	.0019	.0773	.0117	.0044	89.25	3.242
#2	.4210	.2672	.2329	.0029	.0767	.0093	.0061	89.26	3.236
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	194.6	8.626	12.77	.2547	.0547	-.0053	-.0117	3.354	.0294
Stddev	.1	.051	.06	.0040	.0011	.0002	.0009	.034	.0004
%RSD	.0386	.5896	.4797	1.561	1.983	3.273	7.609	1.023	1.299
#1	194.6	8.662	12.82	.2519	.0539	-.0051	-.0110	3.329	.0291
#2	194.5	8.590	12.73	.2575	.0554	-.0054	-.0123	3.378	.0296
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0714	.9341	.0217	.0483	.5642	-.0047	.0927		
Stddev	.0000	.0005	.0005	.0001	.0101	.0006	.0002		
%RSD	.0251	.0553	2.263	.3091	1.781	13.13	.2451		
#1	.0714	.9345	.0213	.0484	.5571	-.0043	.0925		
#2	.0714	.9338	.0220	.0482	.5713	-.0051	.0929		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	92044.	13824.	1670.8	5574.2					
Stddev	189.	6.	13.3	44.5					
%RSD	.20559	.04088	.79416	.79908					
#1	92178.	13820.	1680.2	5605.7					
#2	91910.	13828.	1661.5	5542.7					

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Sample Name: mp79610a-sd1				Acquired: 5/30/2014 13:20:11		Type: Unk			
Method: Accutest1(v93)				Mode: CONC		Corr. Factor: 5.000000			
User: admin		Custom ID1:		Custom ID2:		Custom ID3:			
Comment: soil 3rd									
Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.2612	.0061	.0005	.0243	.2648	.0165	.3929	.0457	.0030
Stddev	.0006	.0001	.0004	.0003	.0003	.0000	.0009	.0003	.0009
%RSD	.2219	2.164	84.20	1.407	.1042	.2015	.2229	.6028	31.23
#1	.2616	.0060	.0002	.0241	.2646	.0165	.3935	.0459	.0023
#2	.2608	.0062	.0008	.0246	.2650	.0164	.3923	.0455	.0037
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.6765	.2719	.1705	.0062	.0849	.0092	.0073	78.21	8.908
Stddev	.0001	.0016	.0005	.0000	.0049	.0130	.0023	.12	.036
%RSD	.0161	.5781	.2732	.5327	5.729	141.2	31.51	.1525	.4045
#1	.6765	.2708	.1702	.0062	.0815	.0000	.0057	78.29	8.882
#2	.6764	.2730	.1708	.0062	.0884	.0185	.0090	78.12	8.933
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	209.9	13.65	23.11	.4095	.0865	-.0087	-.0126	4.031	.0281
Stddev	.1	.13	.08	.0143	.0024	.0014	.0031	.004	.0046
%RSD	.0301	.9161	.3361	3.483	2.742	15.99	24.36	.1096	16.27
#1	209.9	13.74	23.06	.4196	.0882	-.0097	-.0147	4.028	.0313
#2	210.0	13.56	23.17	.3994	.0849	-.0077	-.0104	4.034	.0249
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0483	1.091	.0501	.0591	.3774	-.0093	.0949		
Stddev	.0003	.002	.0001	.0001	.0023	.0031	.0004		
%RSD	.6026	.1618	.2649	.2246	.6090	33.46	.3937		
#1	.0481	1.093	.0502	.0592	.3757	-.0116	.0946		
#2	.0485	1.090	.0500	.0590	.3790	-.0071	.0951		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	95553.	13897.	1715.3	5745.9					
Stddev	352.	11.	2.7	12.7					
%RSD	.36876	.07677	.15875	.22051					
#1	95304.	13889.	1717.2	5754.9					
#2	95802.	13904.	1713.3	5736.9					
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Sample Name: ccv Acquired: 5/30/2014 13:38:43 Type: QC Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000 User: admin Custom ID1: Custom ID2: Custom ID3: Comment:									
Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.980	2.004	1.936	1.949	2.000	1.936	2.051	1.990	2.462
Stddev	.002	.002	.002	.002	.004	.001	.003	.005	.0002
%RSD	.1146	.0897	.1117	.1041	.1962	.0631	.1581	.2724	.0919
#1	1.978	2.003	1.934	1.948	1.997	1.937	2.049	1.987	2.461
#2	1.981	2.006	1.937	1.951	2.003	1.935	2.053	1.994	2.464
Check ? Value Range	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.999	1.996	1.934	2.007	2.005	1.925	1.926	39.41	39.61
Stddev	.003	.006	.001	.003	.013	.003	.002	.11	.04
%RSD	.1377	.3012	.0555	.1500	.6263	.1543	.1248	.2670	.0964
#1	1.997	1.992	1.933	2.009	1.996	1.927	1.924	39.34	39.64
#2	2.001	2.000	1.934	2.005	2.013	1.923	1.927	39.49	39.58
Check ? Value Range	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.04	39.67	39.65	40.06	1.936	1.976	1.932	4.821	1.977
Stddev	.00	.02	.08	.08	.003	.008	.003	.001	.001
%RSD	.0072	.0624	.1902	.2084	.1297	.3876	.1319	.0118	.0580
#1	40.04	39.65	39.59	40.00	1.934	1.971	1.934	4.821	1.977
#2	40.05	39.68	39.70	40.12	1.937	1.982	1.931	4.820	1.978
Check ? Value Range	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass

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Sample Name: ccv Acquired: 5/30/2014 13:38:43 Type: QC Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000 User: admin Custom ID1: Custom ID2: Custom ID3: Comment:									
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm		
Avg	1.994	1.997	1.910	2.006	1.921	1.923	1.978		
Stddev	.000	.004	.015	.002	.010	.001	.001		
%RSD	.0148	.1897	.8030	.1120	.5218	.0604	.0394		
#1	1.994	1.994	1.899	2.004	1.914	1.922	1.977		
#2	1.994	1.999	1.920	2.007	1.928	1.924	1.979		
Check ? Value Range	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Units	Cts/S	Cts/S	Cts/S	Cts/S					
Avg	90409.	13629.	1625.4	5282.3					
Stddev	44.	25.	9	8.4					
%RSD	.04817	.18350	.05618	.15817					
#1	90440.	13647.	1626.0	5288.2					
#2	90379.	13612.	1624.7	5276.4					

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Sample Name: ccb Acquired: 5/30/2014 13:44:47 Type: QC Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000 User: admin Custom ID1: Custom ID2: Custom ID3: Comment:									
Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005	.0001	.0003	.0000	.0000	.0008	.0001	.0003	.0001
Stddev	.0001	.0000	.0001	.000	.000	.0001	.0001	.0000	.0003
%RSD	15.21	20.81	21.87	383.9	27.80	15.67	55.67	2.238	272.6
#1	.0004	.0002	.0004	-.0001	.0000	-.0008	.0002	-.0003	-.0003
#2	.0005	.0001	.0003	.0001	.0000	-.0009	.0001	-.0003	.0001
Check ? High Limit Low Limit	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	-.0012	.0006	.0004	-.0009	.0001	.0005	.0129	-.0099
Stddev	.0001	.0001	.0007	.0008	.0004	.0011	.0001	.0036	.0020
%RSD	23.21	6.524	110.7	196.2	49.67	1291.	28.85	27.94	20.43
#1	.0003	-.0011	.0011	-.0002	-.0006	.0009	.0006	.0103	-.0084
#2	.0002	-.0012	.0001	.0010	-.0012	-.0007	.0004	.0154	-.0113
Check ? High Limit Low Limit	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0037	.0083	.0071	.0012	.0022	F .0024	.0005	.0028	.0001
Stddev	.0023	.0173	.0120	.0009	.0002	.0004	.0002	.0010	.0007
%RSD	63.46	207.0	168.2	76.60	7.277	17.84	38.64	37.02	614.9
#1	.0020	-.0039	-.0014	.0019	.0021	.0027	.0004	.0035	-.0004
#2	.0053	.0206	.0156	.0006	.0023	.0021	.0006	.0021	.0006
Check ? High Limit Low Limit	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass

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Sample Name: ccb Acquired: 5/30/2014 13:44:47 Type: QC Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000 User: admin Custom ID1: Custom ID2: Custom ID3: Comment:									
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm		
Avg	.0003	.0004	F .0254	F .0014	.0003	-.0005	.0006		
Stddev	.0001	.0002	.0018	.0001	.0006	.0001	.0010		
%RSD	36.91	51.03	6.979	10.49	242.3	11.70	149.8		
#1	.0002	.0003	.0266	.0015	.0007	-.0006	.0013		
#2	.0003	.0006	.0241	.0013	-.0002	-.0005	.0000		
Check ? High Limit Low Limit	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Units	Cts/S	Cts/S	Cts/S	Cts/S					
Avg	91346.	13275.	1675.9	5672.4					
Stddev	113.	17.	6.8	23.9					
%RSD	.12359	.12785	.40328	.42182					
#1	91266.	13287.	1671.1	5655.5					
#2	91426.	13263.	1680.7	5689.3					

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Sample Name: mp79677-mb1conf				Acquired: 5/30/2014 14:25:38		Type: Unk		Zoom In	
Method: Accutest1(v93)				Mode: CONC		Corr. Factor: 1.000000			
User: admin		Custom ID1:		Custom ID2:		Custom ID3:			
Comment: water rerun 5th									
Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.0002	.0000	.0000	.0001	.0002	.0004	.0000	.0004	.0000
Stddev	.0001	.0000	.0001	.0001	.0000	.0001	.0001	.0000	.0000
%RSD	58.03	388.3	240.4	244.2	13.22	13.14	459.3	.9688	226.0
#1	.0003	.0000	.0001	.0002	.0002	.0004	.0001	.0004	.0000
#2	.0001	.0000	.0000	.0000	.0001	.0004	.0001	.0004	.0000
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0003	.0001	.0000	.0012	.0003	.0023	.0009	.0083	.0008
Stddev	.0002	.0001	.000	.0006	.0000	.0009	.0005	.0053	.0006
%RSD	71.33	128.2	33.73	51.80	9.492	37.29	54.29	63.55	65.10
#1	.0002	.0002	.0001	.0007	.0003	.0030	.0006	.0120	.0005
#2	.0005	.0000	.0000	.0016	.0004	.0017	.0013	.0046	.0012
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0021	.0126	.0171	.0015	.0009	.0005	.0001	.0147	.0003
Stddev	.0008	.0166	.0187	.0029	.0006	.0001	.0013	.0017	.0001
%RSD	37.69	132.1	109.9	186.4	65.43	13.98	1895.	11.40	30.20
#1	.0027	.0008	.0303	.0005	.0013	.0005	.0010	.0159	.0002
#2	.0016	.0243	.0038	.0036	.0005	.0004	.0009	.0135	.0004
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0001	.0002	.0093	.0003	.0040	.0005	.0011		
Stddev	.0001	.0002	.0003	.0001	.0006	.0005	.0003		
%RSD	41.84	89.73	3.710	44.49	15.45	100.4	26.67		
#1	.0002	.0001	.0096	.0004	.0036	.0002	.0013		
#2	.0001	.0004	.0091	.0002	.0045	.0009	.0009		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	93973.	13565.	1673.1	5747.0					
Stddev	50.	35.	.9	.6					
%RSD	.05332	.25592	.05587	.00995					
#1	93938.	13590.	1672.5	5747.4					
#2	94008.	13541.	1673.8	5746.6					

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Sample Name: jb66641-1r 2										Acquired: 5/30/2014 14:40:12		Type: Unk
Method: Accutest1(v93)										Mode: CONC		Corr. Factor: 1.000000
User: admin										Custom ID1:		Custom ID2:
										Custom ID3:		
Comment: soil 3rd												
Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280			
Avg	2.905	.0027	.0303	.0671	.3592	2.553	3.900	.3152	.0307			
Stddev	.001	.0000	.0003	.0001	.0004	.005	.005	.0006	.0007			
%RSD	.0204	.1859	.9474	.1376	.1083	.2089	.1190	.1898	2.125			
#1	2.906	.0027	.0305	.0672	.3590	2.556	3.903	.3156	.0302			
#2	2.905	.0027	.0301	.0670	.3595	2.549	3.896	.3148	.0311			
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179			
Avg	.1895	7.495	.1709	.0108	5.419	.0044	.1355	60.43	70.62			
Stddev	.0005	.008	.0024	.0050	.008	.0023	.0020	.03	.06			
%RSD	.2786	.1072	1.404	45.82	.1499	51.00	1.441	.0557	.0861			
#1	.1899	7.501	.1692	.0073	5.425	.0028	.1341	60.45	70.57			
#2	.1891	7.490	.1726	.0143	5.413	.0060	.1369	60.40	70.66			
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899			
Avg	781.3	14.12	9.996	.5022	.0713	.0184	.0261	3.742	2.799			
Stddev	2.7	.02	.043	.0077	.0001	.0004	.0014	.005	.007			
%RSD	.3468	.1492	.4315	1.527	.0881	2.027	5.509	.1418	.2516			
#1	779.3	14.13	9.966	.5076	.0713	.0181	.0251	3.739	2.804			
#2	783.2	14.10	10.03	.4968	.0714	.0186	.0271	3.746	2.794			
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707					
Avg	.2821	1.216	.0769	.0127	6.744	.0138	.0497					
Stddev	.0001	.001	.0003	.0001	.004	.0001	.0002					
%RSD	.0275	.0417	.4244	1.066	.0625	1.024	.4317					
#1	.2822	1.216	.0772	.0128	6.747	.0139	.0495					
#2	.2821	1.216	.0767	.0126	6.741	.0137	.0498					
Int. Std.	Y_3600	Y_3710	Y_2243	In2306								
Avg	89798.	13643.	1570.0	5840.7								
Stddev	14.	33.	4.5	11.6								
%RSD	.01531	.23976	.28479	.19798								
#1	89788.	13666.	1573.2	5848.8								
#2	89807.	13620.	1566.9	5832.5								

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Sample Name: jb67556-2 2										Acquired: 5/30/2014 14:31:55		Type: Unk	
Method: Accutest1(v93)										Mode: CONC		Corr. Factor: 1.000000	
User: admin										Custom ID1:		Custom ID2:	
Comment: water rerun 5th												Custom ID3:	
Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280				
Avg	.0521	.0006	.0006	.0008	.0016	.0022	.4266	.0101	.0005				
Stddev	.0002	.0000	.0001	.0002	.0003	.0001	.0007	.0001	.0000				
%RSD	.3513	4.905	20.60	31.60	16.77	5.330	.1571	1.291	2.035				
#1	.0523	.0006	.0005	.0006	.0018	.0023	.4271	.0102	.0005				
#2	.0520	.0006	.0007	.0010	.0015	.0021	.4261	.0100	.0005				
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179				
Avg	.0059	.0003	.0151	.0004	.0052	.0087	.0026	.0244	192.0				
Stddev	.0003	.0001	.0007	.0005	.0003	.0001	.0013	.0015	.3				
%RSD	5.600	22.19	4.678	124.4	5.971	1.049	50.74	6.224	.1322				
#1	.0061	.0004	.0146	.0000	.0054	.0087	.0017	.0233	192.2				
#2	.0057	.0003	.0156	.0008	.0050	.0086	.0035	.0255	191.8				
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899				
Avg	.1234	166.8	29.55	1183.	.6591	.0056	.0054	10.65	.0028				
Stddev	.0006	.1	.08	3	.0009	.0001	.0008	.02	.0002				
%RSD	.4631	.0537	.2746	.2583	.1311	2.026	15.72	.1899	8.038				
#1	.1229	166.9	29.61	1181.	.6585	.0057	.0048	10.63	.0026				
#2	.1238	166.8	29.49	1185.	.6597	.0055	.0060	10.66	.0030				
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707						
Avg	2.471	.0015	.0067	.0194	194.6	.0002	.0476						
Stddev	.002	.0003	.0006	.0000	.7	.0005	.0008						
%RSD	.0753	18.80	9.116	.1261	.3523	328.0	1.707						
#1	2.473	.0013	.0063	.0194	195.1	.0005	.0470						
#2	2.470	.0017	.0072	.0193	194.1	.0002	.0482						
Int. Std.	Y_3600	Y_3710	Y_2243	In2306									
Avg	77645.	12698.	1405.1	4290.6									
Stddev	132.	20.	4.1	6.0									
%RSD	.17005	.16082	.29403	.13934									
#1	77551.	12684.	1408.1	4294.8									
#2	77738.	12713.	1402.2	4286.4									

Sample Name: jb66641-3r Acquired: 5/30/2014 14:52:27 Type: Unk
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: soil 3rd

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.2452	.0080	.0010	.0308	.3514	.0462	.6953	.0695	.0013
Stddev	.0001	.0000	.0002	.0001	.0018	.0002	.0021	.0000	.0001
%RSD	.0466	.3621	17.99	.1757	.5063	.4338	.3089	.0594	6.893
#1	.2453	.0080	.0009	.0308	.3501	.0461	.6937	.0695	.0012
#2	.2452	.0080	.0012	.0308	.3526	.0464	.6968	.0695	.0013
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.3537	.3731	.7278	.0057	.0812	.0110	.0084	174.4	19.06
Stddev	.0011	.0008	.0014	.0025	.0004	.0021	.0009	.1	.05
%RSD	.3234	.2102	.1881	43.45	.4880	19.56	10.26	.0381	.2610
#1	.3529	.3725	.7268	.0040	.0809	.0125	.0090	174.5	19.02
#2	.3545	.3737	.7287	.0075	.0814	.0094	.0078	174.4	19.09
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	326.6	39.89	47.03	.4874	.1608	-.0088	-.0235	4.510	.0347
Stddev	.6	.11	.01	.0050	.0001	.0001	.0011	.003	.0005
%RSD	.1838	.2878	.0107	1.033	.0464	.8645	4.839	.0693	1.324
#1	326.2	39.81	47.02	.4838	.1608	-.0089	-.0227	4.512	.0350
#2	327.0	39.98	47.03	.4909	.1607	-.0088	-.0243	4.508	.0344
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0941	4.640	.0259	.0907	.4984	-.0089	.1979		
Stddev	.0001	.009	.0008	.0001	.0031	.0004	.0017		
%RSD	.1563	.1905	2.984	.0556	.6185	4.370	.8616		
#1	.0942	4.634	.0253	.0907	.4962	-.0092	.1991		
#2	.0940	4.647	.0264	.0908	.5006	-.0086	.1967		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	89941.	13697.	1654.0	5482.3					
Stddev	31.	41.	.2	2.2					
%RSD	.03459	.30194	.01176	.04076					
#1	89963.	13726.	1654.1	5480.7					
#2	89919.	13667.	1653.9	5483.9					

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Sample Name: ccv Acquired: 5/30/2014 14:58:33 Type: QC
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.981	2.004	1.904	1.995	1.914	1.909	1.986
Stddev	.002	.001	.020	.001	.009	.011	.003
%RSD	.1046	.0548	1.023	.0252	.4479	.5736	.1604
#1	1.980	2.003	1.890	1.995	1.907	1.901	1.983
#2	1.983	2.004	1.917	1.995	1.920	1.917	1.988
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value Range							
Int. Std.	Y_3600	Y_3710	Y_2243	In2306			
Units	Cts/S	Cts/S	Cts/S	Cts/S			
Avg	89880.	13426.	1636.2	5295.2			
Stddev	13.	44.	8.0	23.7			
%RSD	.01413	.33077	.49079	.44811			
#1	89889.	13395.	1641.9	5312.0			
#2	89871.	13458.	1630.6	5278.5			

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Sample Name: ccv Acquired: 5/30/2014 14:58:33 Type: QC
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.985	2.014	1.919	1.937	1.973	1.963	2.064	1.986	.2461
Stddev	.001	.001	.010	.006	.003	.000	.000	.009	.0001
%RSD	.0372	.0507	.5407	.3216	.1454	.0177	.0114	.4691	.0533
#1	1.984	2.015	1.912	1.933	1.971	1.964	2.064	1.980	.2462
#2	1.985	2.013	1.927	1.941	1.975	1.963	2.064	1.993	.2460
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value Range									
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.035	1.989	1.918	1.978	2.014	1.917	1.918	40.15	39.16
Stddev	.002	.011	.010	.001	.012	.010	.013	.04	.06
%RSD	.1123	.5524	.5084	.0331	.5726	.5369	.6700	.1022	.1467
#1	2.033	1.981	1.911	1.978	2.006	1.910	1.909	40.18	39.21
#2	2.036	1.996	1.925	1.977	2.022	1.924	1.927	40.12	39.12
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value Range									
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	39.73	39.60	40.13	40.89	1.914	1.975	1.940	4.800	1.962
Stddev	.07	.12	.03	.03	.011	.013	.004	.028	.008
%RSD	.1786	.3080	.0813	.0632	.5672	.6535	.2324	.5835	.3855
#1	39.78	39.68	40.11	40.91	1.906	1.966	1.937	4.781	1.957
#2	39.68	39.51	40.16	40.87	1.921	1.984	1.943	4.820	1.968
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value Range									

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Sample Name: ccb Acquired: 5/30/2014 15:04:36 Type: QC
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005	.0002	.0002	.0004	.0001	-.0007	.0002	-.0002	-.0004
Stddev	.0000	.0001	.0001	.0002	.0002	.0002	.0000	.0002	.0002
%RSD	3.943	28.29	21.26	46.06	163.3	25.95	4.604	96.47	39.34
#1	.0005	.0002	.0002	.0003	.0000	-.0008	.0002	-.0001	-.0003
#2	.0005	.0001	.0003	.0005	.0002	-.0006	.0002	-.0003	-.0005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005	-.0010	.0010	-.0008	.0010	.0002	.0017	.0093	-.0069
Stddev	.0001	.0004	.0000	.0020	.0011	.0002	.0009	.0042	.0026
%RSD	30.08	34.93	4.360	238.9	103.2	124.6	53.94	44.96	37.57
#1	.0004	-.0013	.0010	-.0022	.0018	.0000	.0010	.0122	-.0087
#2	.0006	-.0008	.0010	.0006	.0003	.0003	.0023	.0063	-.0050
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0090	.0048	.0401	.0109	.0019	F_0.0022	.0010	.0037	-.0002
Stddev	.0017	.0041	.0239	.0104	.0007	.0003	.0000	.0002	.0002
%RSD	19.46	85.55	59.57	95.36	36.54	12.86	4.885	4.981	139.5
#1	.0102	.0019	.0570	.0182	.0014	.0024	.0010	.0038	.0000
#2	.0077	.0077	.0232	.0035	.0023	.0020	.0010	.0035	-.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0020			
Low Limit						-.0020			

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Sample Name: ccb		Acquired: 5/30/2014 15:04:36			Type: QC			Zoom Out
Method: Accutest1(v93)		Mode: CONC		Corr. Factor: 1.000000				
User: admin		Custom ID1:		Custom ID2:		Custom ID3:		
Comment:								
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.0002	.0006	F .0227	F .0014	.0015	-.0001	.0007	
Stddev	.0000	.0002	.0027	.0000	.0015	.0002	.0007	
%RSD	6.870	35.53	11.78	1.593	103.0	243.5	94.09	
#1	.0003	.0007	.0246	.0014	.0004	.0001	.0002	
#2	.0002	.0004	.0208	.0014	.0025	-.0002	.0012	
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	
High Limit			.0123	.0010				
Low Limit			-.0123	-.0010				
Int. Std.	Y_3600	Y_3710	Y_2243	In2306				
Units	Cts/S	Cts/S	Cts/S	Cts/S				
Avg	95051.	13488.	1699.0	5786.0				
Stddev	306.	87.	7.8	18.0				
%RSD	.32148	.64533	.45952	.31059				
#1	94835.	13426.	1704.5	5798.7				
#2	95267.	13549.	1693.4	5773.2				

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Sample Name: jb66645-2r		Acquired: 5/30/2014 15:18:20			Type: Unk				
Method: Accutest1(v93)		Mode: CONC		Corr. Factor: 1.000000					
User: admin		Custom ID1:		Custom ID2:		Custom ID3:			
Comment: soil 3rd									
Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.0583	.0009	.0002	.0026	.0465	.0254	.1195	.0125	.0001
StdDev	.0000	.0000	.0002	.0000	.0000	.0001	.0004	.0002	.0003
%RSD	.0620	3.249	85.06	.6296	.0195	.4896	.3551	1.651	304.1
#1	.0583	.0009	.0003	.0026	.0465	.0253	.1198	.0123	-.0001
#2	.0582	.0009	.0001	.0026	.0466	.0255	.1192	.0126	.0003
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0575	.0743	.0121	.0006	.0238	.0016	.0012	13.36	2.884
StdDev	.0003	.0004	.0006	.0005	.0002	.0008	.0006	.00	.009
%RSD	.4506	.5344	5.156	74.39	.7020	53.14	48.76	.0275	.2970
#1	.0577	.0745	.0125	.0003	.0239	.0010	.0008	13.37	2.878
#2	.0573	.0740	.0116	.0009	.0237	.0021	.0017	13.36	2.890
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	26.97	2.182	3.088	.1010	.0203	.0005	-.0027	2.488	.0232
StdDev	.07	.013	.032	.0081	.0002	.0000	.0007	.005	.0009
%RSD	.2511	.5749	1.040	7.966	1.192	7.236	25.92	.2026	3.986
#1	26.92	2.191	3.111	.1067	.0205	.0005	-.0022	2.484	.0226
#2	27.02	2.173	3.065	.0954	.0202	.0005	-.0032	2.492	.0239
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0313	1.069	.0129	.0187	.1077	-.0030	.0122		
StdDev	.0000	.000	.0007	.0001	.0003	.0000	.0003		
%RSD	.0240	.0235	5.602	.6746	.2911	.6038	2.556		
#1	.0313	1.069	.0124	.0186	.1075	-.0030	.0125		
#2	.0313	1.069	.0134	.0188	.1079	-.0030	.0120		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	94843.3	13748.8	1702.1	5720.2					
StdDev	13.1	116.1	2.1	2.8					
%RSD	.01319	.84196	.12367	.04887					
#1	94834.1	13830.1	1703.6	5722.2					
#2	94852.1	13666.1	1700.7	5718.2					

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Sample Name: jb66645-1r		Acquired: 5/30/2014 15:12:07				Type: Unk				Zoom Out
Method: Accutest1(v93)		Mode: CONC		Corr. Factor: 1.000000						
User: admin		Custom ID1:		Custom ID2:		Custom ID3:				
Comment: soil 3rd										
Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280	
Avg	7.473	.0044	.0057	.0302	.3088	.9585	1.385	.0929	.0074	
Stddev	.115	.0000	.0000	.0002	.0015	.0005	.000	.0009	.0000	
%RSD	1.532	.4155	.8578	.7125	.4700	.0561	.0316	.9178	.2755	
#1	7.554	.0044	.0057	.0304	.3098	.9581	1.385	.0923	.0074	
#2	7.392	.0044	.0058	.0300	.3078	.9589	1.384	.0935	.0074	
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179	
Avg	.2821	2.034	.0649	.0002	1.005	.0130	.0123	95.02	140.5	
Stddev	.0000	.001	.0015	.0001	.001	.0015	.0005	.04	.6	
%RSD	.0135	.0624	2.368	43.46	.0772	11.26	4.015	.0412	.4588	
#1	.2821	2.033	.0659	.0001	1.005	.0120	.0126	95.05	141.0	
#2	.2821	2.035	.0638	.0003	1.004	.0140	.0119	95.00	140.1	
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899	
Avg	167.6	28.50	11.29	1.417	.0622	.0081	-.0128	3.525	.1319	
Stddev	.7	.04	.02	.008	.0001	.0001	.0003	.005	.0003	
%RSD	.3915	.1566	.1901	.5377	.1000	1.623	2.459	.1397	.2168	
#1	168.1	28.53	11.31	1.422	.0621	.0080	-.0131	3.521	.1321	
#2	167.1	28.47	11.28	1.411	.0622	.0082	-.0126	3.528	.1317	
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707			
Avg	.6542	1.030	.0314	.0134	7.158	-.0014	.1207			
Stddev	.0008	.001	.0017	.0004	.013	.0003	.0009			
%RSD	.1174	.1293	5.491	3.312	.1838	19.87	.7195			
#1	.6547	1.031	.0326	.0137	7.149	-.0016	.1201			
#2	.6536	1.029	.0302	.0131	7.167	-.0012	.1214			
Int. Std.	Y_3600	Y_3710	Y_2243	In2306						
Avg	90266.6	13595.1	1627.6	5350.9						
Stddev	79.7	113.1	2.6	7.6						
%RSD	.08736	.82824	.15926	.14264						
#1	90210.1	13515.1	1629.4	5356.3						
#2	90322.1	13674.1	1625.8	5345.5						

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Sample Name: mp79751-mb1 2			Acquired: 5/30/2014 15:24:31			Type: Unk			
Method: Accutest1(v93)		Mode: CONC		Corr. Factor: 1.000000					
User: admin		Custom ID1:		Custom ID2:		Custom ID3:			
Comment: soil 2nd									
Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.0003	.0000	.0002	.0001	-.0002	-.0007	.0001	.0001	-.0004
Stddev	.0000	.0000	.0001	.0001	.0001	.0002	.0000	.0000	.0002
%RSD	.0102	90.12	40.17	62.83	68.25	23.32	30.00	15.73	41.78
#1	.0003	.0000	.0002	.0002	-.0001	-.0006	.0001	.0000	-.0005
#2	.0003	.0001	.0001	.0001	-.0003	-.0009	.0001	.0001	-.0003
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	-.0001	-.0007	.0006	.0008	.0015	.0001	.0002	.0059	-.0064
Stddev	.0001	.0002	.0010	.0003	.0001	.0002	.0003	.0048	.0004
%RSD	173.4	25.51	158.2	42.34	8.430	295.1	126.6	80.79	6.504
#1	-.0002	-.0006	-.0001	.0006	.0016	.0002	.0000	.0093	-.0067
#2	.0000	-.0009	.0013	.0010	.0014	-.0001	.0004	.0025	-.0062
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0087	.0058	.0030	-.0034	.0003	.0004	-.0002	.0028	.0065
Stddev	.0007	.0139	.0170	.0033	.0003	.0002	.0003	.0001	.0003
%RSD	7.990	241.6	577.4	98.31	88.39	49.58	120.2	2.744	3.842
#1	.0082	-.0041	-.0091	-.0010	.0005	.0005	-.0004	.0028	.0067
#2	.0092	.0156	.0150	-.0057	.0001	.0002	.0000	.0029	.0063
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0001	.0004	.0051	.0004	.0030	-.0001	-.0001		
Stddev	.0000	.0000	.0009	.0001	.0004	.0001	.0004		
%RSD	29.27	2.013	16.73	22.00	11.73	74.40	645.0		
#1	.0001	.0004	.0057	.0003	.0028	-.0002	.0002		
#2	.0001	.0004	.0045	.0005	.0033	-.0001	-.0003		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	93335.	13462.	1668.4	5716.1					
Stddev	20.	77.	2.3	2.3					
%RSD	.02099	.57417	.13617	.04028					
#1	93349.	13407.	1670.0	5717.7					
#2	93321.	13516.	1666.8	5714.5					

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Sample Name: mp79751-b1 Acquired: 5/30/2014 15:30:48 Type: Unk
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: soil 2nd

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	3.904	.1016	.0941	.9277	.3981	.4633	1.024	.9633	.1035
Stddev	.006	.0000	.0002	.0009	.0004	.0002	.002	.0014	.0008
%RSD	.1644	.0290	.2584	.0920	.0898	.0447	.1850	.1419	.7352
#1	3.909	.1016	.0942	.9283	.3983	.4634	1.025	.9643	.1030
#2	3.900	.1016	.0939	.9271	.3978	.4631	1.022	.9624	.1041
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.9517	.9832	3.698	3.858	.9514	3.781	.9100	51.30	11.81
Stddev	.0032	.0005	.003	.009	.0005	.000	.0021	.05	.03
%RSD	.3376	.0546	.0694	.2282	.0480	.0098	.2303	.0890	.2700
#1	.9539	.9836	3.700	3.851	.9517	3.781	.9085	51.33	11.79
#2	.9494	.9829	3.697	3.864	.9511	3.780	.9115	51.27	11.83
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	50.35	12.06	12.10	12.09	-0.020	.0000	-0.024	.0258	.0138
Stddev	.09	.07	.02	.02	.0000	.0003	.0000	.0016	.0001
%RSD	.1763	.5848	.1723	.1880	.6266	727.8	1.379	6.204	.5894
#1	50.28	12.01	12.11	12.10	-.0020	.0003	-.0024	.0270	.0137
#2	50.41	12.11	12.08	12.07	-.0020	-.0002	-.0023	.0247	.0138
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0002	.0028	.0036	.0025	.0015	-0.019	.0012		
Stddev	.0000	.0003	.0001	.0000	.0008	.0007	.0007		
%RSD	1.304	12.04	.4425	1.448	58.51	37.76	57.77		
#1	.0002	.0030	.0137	.0026	.0021	-.0014	.0016		
#2	.0002	.0026	.0136	.0025	.0009	-.0024	.0007		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	91907.	13539.	1659.0	5520.3					
Stddev	205.	32.	2.6	5.6					
%RSD	.22255	.23300	.15638	.10172					
#1	91762.	13562.	1657.2	5516.3					
#2	92051.	13517.	1660.8	5524.2					

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Sample Name: jpb67901-1a Acquired: 5/30/2014 15:42:58 Type: Unk
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: soil 2nd

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.1982	.0024	.0005	.0300	.0713	.0654	2.184	.0722	.0011
Stddev	.0001	.0000	.0001	.0000	.0001	.0003	.002	.0003	.0002
%RSD	.0699	.2754	16.85	.1504	.1127	.4046	.0883	.4785	17.77
#1	.1983	.0024	.0006	.0300	.0713	.0652	2.182	.0719	.0010
#2	.1981	.0024	.0004	.0300	.0714	.0656	2.185	.0724	.0012
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0992	.1413	.0155	.0029	.0593	.0046	.0027	53.12	3.950
Stddev	.0002	.0001	.0010	.0010	.0000	.0006	.0002	.07	.005
%RSD	.2501	.0785	6.674	32.54	.0316	12.25	8.827	.1294	.1208
#1	.0991	.1414	.0147	.0023	.0593	.0042	.0029	53.16	3.954
#2	.0994	.1413	.0162	.0036	.0593	.0050	.0026	53.07	3.947
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	84.57	8.937	4.508	.5834	.0091	-0.023	-0.069	2.713	.0106
Stddev	.00	.017	.010	.0072	.0001	.0000	.0003	.003	.0003
%RSD	.0006	.1867	.2242	1.229	1.479	.4373	4.431	.1082	2.502
#1	84.57	8.925	4.515	.5783	.0090	-.0023	-.0072	2.711	.0104
#2	84.57	8.949	4.501	.5885	.0092	-.0023	-.0067	2.715	.0108
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0322	2.277	.0098	.0193	.4109	-0.038	.0345		
Stddev	.0001	.007	.0002	.0001	.0017	.0002	.0004		
%RSD	.2875	.3052	1.688	.3393	.4144	4.747	1.247		
#1	.0323	2.272	.0097	.0193	.4121	-.0040	.0342		
#2	.0321	2.282	.0099	.0194	.4097	-.0037	.0348		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	93709.	13683.	1705.4	5644.9					
Stddev	168.	48.	3.5	5.9					
%RSD	.17932	.34828	.20557	.10479					
#1	93827.	13717.	1707.9	5640.7					
#2	93590.	13649.	1702.9	5649.1					

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Sample Name: mp79751-1c1 Acquired: 5/30/2014 15:36:56 Type: Unk
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: soil 2nd

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	1.360	.6974	.7619	.3521	.6216	.3390	3.068	1.658	.2397
Stddev	.001	.0003	.0045	.0010	.0036	.0016	.009	.006	.0006
%RSD	.0741	.0367	.5913	.2736	.5870	.4711	.2947	.3583	.2552
#1	1.359	.6972	.7587	.3514	.6190	.3401	3.062	1.654	.2393
#2	1.360	.6975	.7651	.3528	.6242	.3378	3.075	1.662	.2401
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.6373	1.619	.7752	1.413	1.354	.8586	.5504	56.49	33.33
Stddev	.0000	.006	.0037	.014	.003	.0016	.0010	.02	.06
%RSD	.0061	.3788	.4804	.9940	.2178	.1856	.1763	.0302	.1801
#1	.6373	1.615	.7726	1.403	1.352	.8574	.5497	56.51	33.29
#2	.6373	1.623	.7779	1.423	1.356	.8597	.5511	56.48	33.38
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	74.54	20.12	17.87	4.071	.6340	.4145	-0.093	4.742	.5960
Stddev	.11	.06	.01	.004	.0033	.0023	.0004	.005	.0044
%RSD	.1529	.2855	.0576	.0917	.5159	.5462	4.028	.0999	.7340
#1	74.46	20.17	17.86	4.068	.6317	.4129	-.0095	4.738	.5929
#2	74.62	20.08	17.88	4.074	.6363	.4161	-.0090	4.745	.5991
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.5774	2.006	.0170	.0479	1.191	-0.048	.0463		
Stddev	.0009	.003	.0005	.0001	.002	.0003	.0001		
%RSD	.1485	.1403	3.224	.2123	.1563	5.744	.1849		
#1	.5768	2.004	.0166	.0478	1.190	-.0046	.0464		
#2	.5780	2.008	.0174	.0479	1.192	-.0050	.0463		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	92933.	13769.	1691.5	5460.4					
Stddev	54.	11.	7.0	14.3					
%RSD	.05814	.08311	.41576	.26136					
#1	92971.	13777.	1696.5	5470.5					
#2	92895.	13761.	1686.6	5450.3					

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Sample Name: jpb67900-1a Acquired: 5/30/2014 15:49:07 Type: Unk
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: soil 2nd

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.3048	.0038	.0002	.0306	.0925	.0055	3.751	.0678	.0032
Stddev	.0011	.0000	.0000	.0002	.0004	.0001	.009	.0001	.0000
%RSD	.3748	1.024	19.73	.6668	.4179	2.537	.2463	.0771	.6423
#1	.3056	.0038	.0003	.0308	.0928	.0056	3.745	.0679	.0032
#2	.3040	.0038	.0002	.0305	.0923	.0054	3.758	.0678	.0031
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.1088	.0920	.0127	-0.002	.0433	.0091	.0025	26.17	182.9
Stddev	.0007	.0001	.0004	.0010	.0005	.0002	.0005	.01	.3
%RSD	.6816	.1467	2.961	502.7	1.161	2.710	18.69	.0555	.1756
#1	.1083	.0919	.0130	-.0009	.0437	.0090	.0028	26.18	183.2
#2	.1094	.0921	.0124	-.0005	.0429	.0093	.0021	26.16	182.7
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	105.0	35.43	5.055	.7013	.0229	-0.039	-0.0121	4.129	.0115
Stddev	.3	.03	.031	.0041	.0001	.0004	.0005	.001	.0013
%RSD	.2562	.0827	.6046	.5796	.5600	10.63	3.853	.0226	11.00
#1	105.2	35.45	5.033	.7042	.0230	-.0036	-.0125	4.130	.0124
#2	104.8	35.41	5.077	.6984	.0228	-.0042	-.0118	4.129	.0106
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.2189	1.125	.0091	.0408	.1795	-0.024	.0322		
Stddev	.0009	.003	.0012	.0003	.0015	.0007	.0003		
%RSD	.3927	.2861	13.22	.7838	.8556	30.77	.9341		
#1	.2196	1.123	.0083	.0405	.1785	-.0029	.0324		
#2	.2183	1.127	.0100	.0410	.1806	-.0019	.0320		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	93107.	13766.	1646.1	5335.4					
Stddev	111.	56.	.5	3.9					
%RSD	.11915	.40337	.03072	.07253					
#1	93186.	13805.	1645.7	5332.7					
#2	93029.	13727.	1646.4	5338.2					

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Sample Name: jb67900-2a Acquired: 5/30/2014 15:55:17 Type: Unk
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: soil 2nd

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	1.119	.0040	.0022	.0422	.1206	.1184	2.751	.0819	.0026
Stddev	.002	.0001	.0000	.0004	.0057	.0049	.122	.0000	.0014
%RSD	.1434	1.280	.9833	.9111	4.762	4.118	4.440	.0578	54.23
#1	1.121	.0040	.0021	.0419	.1246	.1218	2.838	.0819	.0016
#2	1.118	.0040	.0022	.0425	.1165	.1149	2.665	.0820	.0035
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.1529	.2763	.0186	.0031	.1086	.0085	.0032	60.20	143.8
Stddev	.0069	.0003	.0015	.0025	.0001	.0009	.0003	.08	.2
%RSD	4.514	.1149	7.960	78.52	.0477	10.39	8.531	.1316	.1453
#1	.1578	.2761	.0175	.0049	.1086	.0079	.0030	60.14	143.6
#2	.1481	.2765	.0196	.0014	.1087	.0092	.0034	60.25	143.9
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	112.0	32.36	8.775	3.219	.0705	-.0021	-.0134	4.373	.0154
Stddev	.0	.12	.031	.003	.0012	.0003	.0005	.008	.0008
%RSD	.0302	.3624	.3514	.0888	1.730	14.02	3.836	.1901	5.389
#1	111.9	32.28	8.753	3.221	.0713	-.0019	-.0138	4.368	.0148
#2	112.0	32.45	8.797	3.217	.0696	-.0024	-.0131	4.379	.0160
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.4343	2.203	.0156	.0446	3.473	-.0051	.0672		
Stddev	.0008	.098	.0010	.0016	.020	.0005	.0000		
%RSD	.1735	4.456	6.694	3.524	.5801	8.857	.0004		
#1	.4348	2.272	.0148	.0457	3.459	-.0054	.0672		
#2	.4338	2.133	.0163	.0435	3.487	-.0048	.0672		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	93405.	13745.	1684.3	5352.7					
Stddev	3479.	73.	3.7	11.8					
%RSD	3.7247	.53142	.22089	.22108					
#1	90945.	13797.	1686.9	5361.1					
#2	95865.	13693.	1681.6	5344.4					

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Zoom In

Zoom Out

Sample Name: jb67900-3a Acquired: 5/30/2014 16:01:26 Type: Unk
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: soil 2nd

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.2954	.0029	.0007	.0251	.0753	.0061	2.849	.0604	.0014
Stddev	.0010	.0000	.0004	.0004	.0001	.0004	.000	.0001	.0001
%RSD	.3328	.2537	61.16	1.670	.1619	6.126	.0105	.1265	6.048
#1	.2961	.0029	.0010	.0248	.0753	.0058	2.849	.0603	.0015
#2	.2947	.0029	.0004	.0254	.0754	.0064	2.849	.0604	.0013
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0855	.0882	.0110	.0034	.0388	.0053	.0014	24.88	139.0
Stddev	.0001	.0011	.0011	.0027	.0000	.0021	.0007	.03	.6
%RSD	.1400	1.196	10.22	80.07	.0391	39.41	50.95	.1112	.4304
#1	.0856	.0874	.0118	.0015	.0387	.0039	.0009	24.90	138.6
#2	.0855	.0889	.0102	.0053	.0388	.0068	.0019	24.86	139.5
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	79.52	27.87	4.910	.9151	.0228	-.0015	-.0114	4.218	.0161
Stddev	.11	.12	.010	.0003	.0008	.0002	.0005	.055	.0003
%RSD	.1387	.4422	.2075	.0303	3.525	13.36	4.260	1.302	1.705
#1	79.45	27.79	4.917	.9149	.0222	-.0014	-.0118	4.179	.0159
#2	79.60	27.96	4.903	.9153	.0233	-.0017	-.0111	4.257	.0163
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.1682	.9473	.0087	.0363	.2662	-.0020	.0273		
Stddev	.0008	.0017	.0007	.0002	.0009	.0003	.0004		
%RSD	.4832	.1833	8.462	.5369	.3374	17.09	1.461		
#1	.1688	.9460	.0082	.0361	.2655	-.0023	.0276		
#2	.1677	.9485	.0092	.0364	.2668	-.0018	.0271		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	91174.	13660.	1647.8	5288.1					
Stddev	20.	51.	17.3	53.7					
%RSD	.02153	.37313	1.0515	1.0164					
#1	91188.	13696.	1660.0	5326.1					
#2	91161.	13624.	1635.5	5250.1					

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Zoom In

Zoom Out

Sample Name: ccv Acquired: 5/30/2014 16:07:37 Type: QC
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.968	2.003	1.906	1.915	1.986	1.914	2.053	1.968	2.438
Stddev	.005	.007	.007	.005	.006	.003	.005	.007	.0000
%RSD	.2389	.3520	.3567	.2633	.3206	.1776	.2585	.3569	.0195
#1	1.964	1.998	1.902	1.911	1.982	1.916	2.049	1.963	.2438
#2	1.971	2.008	1.911	1.918	1.991	1.911	2.056	1.973	.2439
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.994	1.977	1.915	1.992	1.992	1.901	1.892	39.66	39.58
Stddev	.001	.005	.008	.000	.006	.006	.003	.12	.14
%RSD	.0383	.2357	.4117	.0151	.2989	.2998	.1823	.2933	.3629
#1	1.993	1.974	1.909	1.992	1.987	1.897	1.890	39.57	39.48
#2	1.994	1.980	1.920	1.992	1.996	1.905	1.895	39.74	39.68
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	39.89	39.90	39.85	40.51	1.900	1.963	1.908	4.761	1.962
Stddev	.14	.21	.12	.08	.005	.006	.004	.014	.008
%RSD	.3624	.5181	.3131	.2013	.2727	.3129	.1844	.3010	.4237
#1	39.79	39.76	39.76	40.45	1.897	1.958	1.911	4.751	1.957
#2	40.00	40.05	39.94	40.56	1.904	1.967	1.906	4.771	1.968
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

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Zoom In

Zoom Out

Sample Name: ccv Acquired: 5/30/2014 16:07:37 Type: QC
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm		
Avg	1.993	1.985	1.883	1.991	1.927	1.889	1.982		
Stddev	.002	.005	.018	.004	.005	.004	.002		
%RSD	.0765	.2401	.9419	.2190	.2856	.1953	.1092		
#1	1.992	1.982	1.871	1.988	1.923	1.887	1.981		
#2	1.994	1.988	1.896	1.994	1.931	1.892	1.984		
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass		
Value									
Range									
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Units	Cts/S	Cts/S	Cts/S	Cts/S					
Avg	90445.	13285.	1647.6	5349.8					
Stddev	207.	61.	3.8	6.5					
%RSD	.22873	.46120	.23036	.12058					
#1	90591.	13328.	1650.3	5354.4					
#2	90299.	13242.	1644.9	5345.3					

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Zoom In

Zoom Out

Sample Name: jb67495-7a 2										Acquired: 5/30/2014 16:32:24		Type: Unk		Zoom Out	
Method: Accutest1(v93)										Mode: CONC		Corr. Factor: 1.000000			
User: admin			Custom ID1:			Custom ID2:			Custom ID3:						
Comment: soil rerun 4th															
Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280						
Avg	.1321	-.0017	.0231	1.358	49.54	.2266	6.539	5.033	-.2808						
Stddev	.0004	.0001	.0007	.004	.13	.0012	.011	.007	.0007						
%RSD	.3364	4.684	2.972	.2995	.2674	.5416	.1662	.1467	.2641						
#1	.1324	-.0017	.0236	1.355	49.44	.2257	6.546	5.028	-.2814						
#2	.1318	-.0018	.0226	1.360	49.63	.2274	6.531	5.039	-.2803						
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179						
Avg	3.687	2.978	.0341	-.1900	.2302	-.1541	.6912	285.9	253.0						
Stddev	.010	.010	.0020	.0006	.0000	.0016	.0038	.1	.4						
%RSD	.2684	.3211	5.935	.3236	.0186	1.034	.5517	.0332	.1496						
#1	3.680	2.971	.0327	-.1905	.2301	-.1530	.6885	286.0	252.7						
#2	3.694	2.985	.0355	-.1896	.2302	-.1553	.6939	285.8	253.3						
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899						
Avg	959.6	518.6	.2285	48.83	.0553	-.0102	-.0611	1.739	.0093						
Stddev	6.8	.8	.0045	.04	.0008	.0007	.0012	.005	.0003						
%RSD	.7134	.1531	1.982	.0921	1.415	6.770	1.965	.2862	3.617						
#1	954.7	518.1	.2317	48.86	.0559	-.0107	-.0619	1.735	.0091						
#2	964.4	519.2	.2253	48.80	.0548	-.0097	-.0602	1.743	.0096						

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Sample Name: jb67495-7a										Acquired: 5/30/2014 16:45:05		Type: Unk		Zoom Out	
Method: Accutest1(v93)										Mode: CONC		Corr. Factor: 5.000000			
User: admin		Custom ID1:		Custom ID2:		Custom ID3:									
Comment: soil rerun 4th															
Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280						
Avg	.1330	.0034	.0042	1.543	55.49	.3286	7.210	6.081	.0076						
Stddev	.0004	.0001	.0012	.003	.11	.0009	.011	.009	.0010						
%RSD	.2887	4.344	28.91	.1727	.1924	.2844	.1484	.1470	13.31						
#1	.1333	.0033	.0033	1.542	55.57	.3279	7.217	6.087	.0069						
#2	.1328	.0035	.0050	1.545	55.42	.3293	7.202	6.074	.0084						
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179						
Avg	3.882	3.059	.0156	.0261	.2536	.0094	.0242	272.9	268.4						
Stddev	.004	.004	.0050	.0233	.0028	.0119	.0042	.1	.6						
%RSD	.0908	.1255	31.77	89.22	1.090	126.9	17.26	.0281	.2141						
#1	3.885	3.062	.0191	.0096	.2556	.0178	.0272	273.0	268.0						
#2	3.880	3.057	.0121	.0425	.2517	.0010	.0213	272.8	268.8						
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899						
Avg	1178.	516.6	.1699	46.04	.0427	-.0643	-.0500	-.0691	.0216						
Stddev	.1	.9	.0703	.11	.0036	.0011	.0002	.0041	.0015						
%RSD	.1191	.1746	41.36	.2462	8.498	1.752	.3168	5.939	6.913						
#1	1177.	516.0	.1202	46.13	.0452	-.0651	-.0499	-.0662	.0227						
#2	1179.	517.2	.2196	45.96	.0401	-.0635	-.0501	-.0720	.0206						
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707								
Avg	.2664	29.56	.0957	.0080	3.711	.0532	.0325								
Stddev	.0002	.03	.0001	.0009	.020	.0007	.0040								
%RSD	.0694	.1001	.1039	11.57	.5270	1.297	12.38								
#1	.2665	29.58	.0956	.0087	3.724	.0527	.0354								
#2	.2662	29.54	.0957	.0074	3.697	.0536	.0297								
Int. Std.	Y_3600	Y_3710	Y_2243	In2306											
Avg	88973.	13079.	1575.9	5441.6											
Stddev	77.	84.	1.8	6.3											
%RSD	.08699	.64337	.11263	.11634											
#1	88918.	13138.	1574.7	5437.1											
#2	89028.	13019.	1577.2	5446.1											

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Sample Name: jb67495-7a						Acquired: 5/30/2014 16:38:53		Type: Unk		Zoom Out	
Method: Accutest1(v93)						Mode: CONC		Corr. Factor: 2.000000			
User: admin		Custom ID1:		Custom ID2:		Custom ID3:					
Comment: soil rerun 4th											
Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280		
Avg	.1308	.0033	.0056	1.421	52.95	.3312	6.896	5.575	-.0179		
Stddev	.0013	.0001	.0001	.001	.15	.0009	.014	.008	.0006		
%RSD	.9747	1.969	2.580	.0738	.2857	.2601	.1974	.1450	3.613		
#1	.1299	.0034	.0055	1.421	53.05	.3318	6.906	5.581	-.0184		
#2	.1317	.0033	.0057	1.422	52.84	.3306	6.886	5.570	-.0175		
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179		
Avg	3.805	2.993	.0169	.0135	.2364	-.0007	.0508	277.0	261.7		
Stddev	.002	.007	.0066	.0036	.0025	.0031	.0016	2.1	1.8		
%RSD	.0567	.2396	39.33	26.56	1.051	453.8	3.093	.7673	.6734		
#1	3.806	2.998	.0122	.0160	.2381	-.0028	.0519	275.5	260.5		
#2	3.803	2.988	.0216	.0110	.2346	.0015	.0496	278.5	263.0		
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899		
Avg	1070.	519.0	.1982	47.02	.0511	-.0606	-.0529	-.0016	.0125		
Stddev	3.	3.3	.0292	.35	.0003	.0001	.0012	.0040	.0034		
%RSD	.2402	.6318	14.72	.7533	.5461	.1276	2.217	250.6	27.10		
#1	1068.	516.7	.2189	46.77	.0509	-.0606	-.0521	-.0045	.0149		
#2	1071.	521.4	.1776	47.27	.0512	-.0607	-.0537	.0012	.0101		
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707				
Avg	.2646	.28.85	.0749	.0043	3.822	.0048	.0333				
Stddev	.0021	.03	.0001	.0003	.005	.0031	.0008				
%RSD	.8044	.1148	.1160	6.777	.1193	6.969	2.417				
#1	.2631	.28.87	.0748	.0041	3.825	.0470	.0328				
#2	.2661	.28.82	.0750	.0045	3.819	.0426	.0339				
Int. Std.	Y_3600	Y_3710	Y_2243	In2306							
Avg	85317.	12817.	1452.3	5356.5							
Stddev	186.	59.	2.8	1.6							
%RSD	.21766	.46131	.19594	.02918							
#1	85185.	12859.	1454.3	5357.6							
#2	85448.	12776.	1450.3	5355.4							

Sample Name: jb67495-13a Acquired: 5/30/2014 16:57:31 Type: Unk									
Method: Accutest1(v93) Mode: CONC Corr. Factor: 3.000000									
User: admin Custom ID1: Custom ID2: Custom ID3:									
Comment: soil rerun 4th									
Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.7496	.0094	.0052	.6851	194.1	.4345	6.458	3.850	.0092
Stddev	.0003	.0000	.0001	.0004	.4	.0010	.009	.013	.0003
%RSD	.0375	.3921	2.398	.0543	.2060	.2212	.1346	.3318	3.748
#1	.7498	.0094	.0053	.6854	193.8	.4338	6.452	3.841	.0095
#2	.7494	.0094	.0051	.6849	194.4	.4352	6.464	3.859	.0090
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	2.646	1.298	.1641	.0371	.0866	.0657	.4597	234.8	1688.
Stddev	.011	.004	.0027	.0094	.0001	.0007	.0021	.4	1.
%RSD	.4249	.3464	1.627	25.26	.1529	1.114	.4480	.1524	.0656
#1	2.638	1.295	.1622	.0304	.0867	.0652	.4611	234.5	1689.
#2	2.654	1.302	.1660	-.0437	.0865	.0662	.4582	235.0	1687.
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	417.5	229.8	7.697	56.98	.0827	.0126	-.0640	1.917	.0093
Stddev	.6	.0	.070	.00	.0032	.0003	.0006	.001	.0061
%RSD	.1533	.0006	.9031	.0004	3.885	2.194	.9512	.0503	65.45
#1	418.0	229.8	7.648	56.98	.0850	.0128	-.0635	1.917	.0050
#2	417.1	229.8	7.746	56.98	.0804	.0124	-.0644	1.916	.0136
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	1.812	7.965	.0360	.0791	25.76	.2513	.1776		
Stddev	.003	.004	.0003	.0017	.06	.0066	.0023		
%RSD	.1633	.0525	.9358	2.125	.2350	2.609	1.321		
#1	1.814	7.962	.0362	.0780	25.72	.2467	.1760		
#2	1.810	7.968	.0357	.0803	25.81	.2560	.1793		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	85204.	13098.	1348.8	4853.5					
Stddev	251.	23.	3.2	5.2					
%RSD	.29410	.17268	.23683	.10618					
#1	85381.	13114.	1351.1	4857.1					
#2	85027.	13082.	1346.6	4849.8					

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Sample Name: jb67495-14a Acquired: 5/30/2014 17:09:58 Type: Unk									
Method: Accutest1(v93) Mode: CONC Corr. Factor: 10.000000									
User: admin Custom ID1: Custom ID2: Custom ID3:									
Comment: soil rerun 4th									
Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.6795	.0035	.0088	1.158	387.6	.4555	12.48	6.643	.0198
Stddev	.0032	.0009	.0037	.003	1.0	.0022	.00	.006	.0022
%RSD	.4757	24.35	41.40	.2165	.2620	.4879	.0048	.0982	11.15
#1	.6818	.0042	.0062	1.160	386.8	.4571	12.48	6.648	.0213
#2	.6773	.0029	.0114	1.156	388.3	.4539	12.48	6.639	.0182
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	4.232	2.135	.2086	-.0490	.1080	.0852	.4848	346.4	2851.
Stddev	.002	.007	.0088	.0226	.0016	.0133	.0198	1.1	10.
%RSD	.0493	.3180	4.210	46.09	1.478	15.56	4.089	.3097	.3656
#1	4.230	2.140	.2148	-.0650	.1091	.0759	.4988	347.2	2858.
#2	4.233	2.131	.2024	-.0330	.1069	.0946	.4708	345.7	2843.
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	671.3	413.9	.7389	47.69	.0190	-.0039	-.1019	2.823	.0168
Stddev	5.0	3.6	.0881	.21	.0007	.0010	.0057	.015	.0084
%RSD	.7431	.8620	11.93	.4400	3.746	26.25	5.560	.5121	49.97
#1	674.8	416.4	.6766	47.84	.0195	-.0047	-.1059	2.813	.0227
#2	667.7	411.4	.8012	47.54	.0185	-.0032	-.0979	2.834	.0108
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	1.329	9.839	.0717	-.0244	6.136	.4679	.1138		
Stddev	.007	.003	.0042	.0016	.029	.0032	.0039		
%RSD	.5178	.0279	5.795	6.368	.4709	.6943	3.441		
#1	1.334	9.837	.0688	-.0255	6.116	.4656	.1111		
#2	1.324	9.841	.0747	-.0233	6.156	.4702	.1166		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	87109.	13041.	1469.3	5091.5					
Stddev	179.	100.	.6	2.6					
%RSD	.20536	.76599	.04012	.05031					
#1	87236.	12971.	1468.9	5089.7					
#2	86983.	13112.	1469.7	5093.3					

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Sample Name: jb67495-13a Acquired: 5/30/2014 17:03:49 Type: Unk									
Method: Accutest1(v93) Mode: CONC Corr. Factor: 10.000000									
User: admin Custom ID1: Custom ID2: Custom ID3:									
Comment: soil rerun 4th									
Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.7488	.0094	.0058	.6865	209.4	.4162	6.666	3.906	.0139
Stddev	.0012	.0003	.0000	.0011	.0	.0039	.002	.001	.0013
%RSD	.1573	3.174	.4905	.1616	.0222	.9444	.0329	.0260	9.635
#1	.7480	.0096	.0058	.6857	209.5	.4134	6.668	3.906	.0148
#2	.7496	.0092	.0058	.6872	209.4	.4189	6.665	3.905	.0129
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	2.704	1.241	.1276	-.0278	.1023	.0531	.0853	229.3	1752.
Stddev	.012	.004	.0046	.0378	.0056	.0365	.0188	.2	5.
%RSD	.4371	.3518	3.584	135.9	5.476	68.82	22.04	.0850	.2613
#1	2.713	1.238	.1309	-.0011	.0983	.0789	.0720	229.2	1749.
#2	2.696	1.244	.1244	-.0545	.1063	.0773	.0986	229.5	1756.
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	428.4	228.0	7.636	55.54	.0469	.0153	-.0785	1.697	.0261
Stddev	.9	1.7	.021	.09	.0073	.0029	.0048	.002	.0016
%RSD	.2149	.7563	.2717	.1708	15.49	18.97	6.175	.1288	6.073
#1	427.7	226.8	7.651	55.47	.0418	.0132	-.0751	1.698	.0250
#2	429.0	229.2	7.622	55.61	.0521	.0173	-.0819	1.695	.0272
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	1.784	7.986	.0542	.0784	22.43	.2426	.1770		
Stddev	.002	.006	.0019	.0001	.10	.0004	.0076		
%RSD	.0966	.0776	3.451	.1629	.4246	.1764	4.310		
#1	1.783	7.990	.0555	.0785	22.50	.2423	.1824		
#2	1.785	7.982	.0529	.0783	22.37	.2429	.1716		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	88808.	13155.	1565.0	5230.5					
Stddev	24.	36.	.6	8.1					
%RSD	.02686	.27263	.03714	.15578					
#1	88791.	13181.	1564.6	5224.7					
#2	88825.	13130.	1565.4	5236.3					

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Sample Name: ccv										Acquired: 5/30/2014 17:16:19										Type: QC										Zoom Out																																																																																																			
Method: Accutest1(v93)										Mode: CONC										Corr. Factor: 1.000000																																																																																																													
User: admin										Custom ID1:										Custom ID2:										Custom ID3:																																																																																																			
Comment: 1																																																																																																																																	
Elem										Ba4554										Be3130										Cd2288										Co2286										Cr2677										Cu3247										Mn2576										Ni2316										Ag3280																																							
Units										ppm										ppm										ppm										ppm										ppm										ppm										ppm										ppm										ppm										ppm																													
Avg										1.988										2.014										1.905										1.919										1.979										1.931										2.060										1.977										2.442																																							
Stddev										.000										.002										.005										.001										.003										.004										.000										.002										.0003																																							
%RSD										.0100										.0874										.2592										.0370										.1340										.2142										.0033										.0969										.1044																																							
#1										1.988										2.015										1.902										1.918										1.977										1.934										2.060										1.976										.2444																																							
#2										1.989										2.012										1.909										1.919										1.981										1.928										2.060										1.979										.2440																																							
Check ?										Chk Pass										Chk Pass										Chk Pass										Chk Pass										Chk Pass										Chk Pass										Chk Pass										Chk Pass										Chk Pass										Chk Pass																													
Value																																																																																																																																	
Range																																																																																																																																	
Elem										V_2924										Zn2062										As1890										Ti1908										Pb2203										Se1960										Sb2068										Al3961										Ca3179																																							
Units										ppm										ppm										ppm										ppm										ppm										ppm										ppm										ppm										ppm										ppm																													
Avg										2.009										1.980										1.923										1.993										2.005										1.916										1.902										40.11										39.35																																							
Stddev										.000										.003										.005										.004										.000										.006										.005										.01										.06																																							
%RSD										.0044										.1272										.2863										.1797										.0115										.3236										.2759										.0277										.1443																																							
#1										2.009										1.979										1.919										1.995										2.005										1.912										1.898										40.10										39.39																																							
#2										2.009										1.982										1.927										1.990										2.005										1.920										1.905										40.12										39.31																																							
Check ?										Chk Pass										Chk Pass										Chk Pass										Chk Pass										Chk Pass										Chk Pass										Chk Pass										Chk Pass										Chk Pass										Chk Pass																													
Value																																																																																																																																	
Range																																																																																																																																	
Elem										Fe2599										Mg2790										K_7664										Na5895										B_2089										Mo2020										Pd3404										Si2124										Sn1899																																							
Units										ppm										ppm										ppm										ppm										ppm										ppm										ppm										ppm										ppm										ppm																													
Avg										40.00										40.00										40.45										41.17										1.906										1.974										1.920										4.784										1.969																																							
Stddev										.01										.01										.00										.01										.006										.007										.004										.012										.007																																							
%RSD										.0242										.0280										.0108										.0217										.3181										.3346										.2206										.2595										.3620																																							
#1										39.99										40.01										40.45										41.16										1.901										1.969										1.923										4.775										1.964																																							
#2										40.00										39.99										40.45										41.17										1.910										1.978										1.917										4.792										1.974																																							
Check ?										Chk Pass										Chk Pass										Chk Pass										Chk Pass										Chk Pass										Chk Pass										Chk Pass										Chk Pass										Chk Pass										Chk Pass																													
Value																																																																																																																																	
Range																																																																																																																																	

Sample Name: ccv Acquired: 5/30/2014 17:16:19 Type: QC
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: 1

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.003	1.993	1.891	1.998	1.942	1.892	2.005
Stddev	.001	.002	.019	.001	.004	.008	.001
%RSD	.0532	.0756	1.028	.0340	.1791	.4286	.0492
#1	2.003	1.994	1.877	1.998	1.940	1.886	2.005
#2	2.002	1.992	1.904	1.999	1.944	1.898	2.004

Check ?
Value
Range

Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	90190.	13183.	1643.8	5323.1
Stddev	3.	9.	5.1	1.9
%RSD	.00383	.06953	.30984	.03561
#1	90188.	13176.	1647.4	5324.5
#2	90192.	13189.	1640.2	5321.8

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Zoom In

Zoom Out

Sample Name: ccb Acquired: 5/30/2014 17:22:23 Type: QC
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0000	.0003	.0000	.0004	.0010	.0000	.0002	.0003
Stddev	.0002	.0001	.0002	.0002	.0000	.0003	.000	.0000	.0002
%RSD	113.3	466.0	58.74	331.9	5.692	30.52	28.29	14.74	71.40
#1	.0003	.0001	.0002	.0001	.0004	.0008	.0000	.0002	.0002
#2	.0000	.0000	.0004	.0002	.0004	.0012	.0000	.0002	.0005

Check ?
High Limit
Low Limit

Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0012	.0003	.0015	.0001	.0015	.0016	.0075	.0128
Stddev	.0003	.0002	.0005	.0007	.0018	.0001	.0004	.0024	.0025
%RSD	920.4	13.83	151.5	47.54	1413.	5.829	26.84	31.47	19.15
#1	-.0002	-.0013	.0000	.0010	-.0012	-.0014	.0019	.0092	-.0111
#2	.0003	-.0011	-.0007	.0020	.0014	-.0015	.0013	.0058	-.0146

Check ?
High Limit
Low Limit

Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0029	.0108	.0134	.0010	.0019	F .0021	.0003	.0054	.0003
Stddev	.0022	.0184	.0190	.0069	.0000	.0001	.0001	.0011	.0005
%RSD	78.22	170.2	141.4	700.2	2.473	5.400	47.92	20.08	168.7
#1	.0045	-.0022	.0269	.0039	.0019	.0022	-.0002	.0047	-.0001
#2	.0013	.0239	.0000	-.0058	.0020	.0020	-.0004	.0062	.0007

Check ?
High Limit
Low Limit

Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Fail Chk Pass Chk Pass Chk Pass

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Zoom In

Zoom Out

Sample Name: ccb Acquired: 5/30/2014 17:22:23 Type: QC
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0006	F .0232	F .0012	-.0018	-.0001	.0006
Stddev	.0000	.0003	.0011	.0001	.0003	.0007	.0004
%RSD	10.99	43.73	4.638	4.634	18.19	1176.	65.04
#1	.0001	.0008	.0240	.0012	-.0016	-.0005	.0003
#2	.0001	.0004	.0225	.0012	-.0020	.0004	.0009

Check ?
High Limit
Low Limit

Chk Pass Chk Pass Chk Fail Chk Fail Chk Pass Chk Pass Chk Pass

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	94441.	13230.	1689.0	5750.5
Stddev	204.	45.	1.1	7.1
%RSD	.21592	.34293	.06460	.12397
#1	94297.	13197.	1689.7	5755.6
#2	94585.	13262.	1688.2	5745.5

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Zoom In

Zoom Out

Sample Name: jb67495-18a Acquired: 5/30/2014 17:28:41 Type: Unk
Method: Accutest1(v93) Mode: CONC Corr. Factor: 2.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: soil rerun 4th

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.22	.0048	.0625	.0752	1.768	7.770	10.02	.2688	.0057
Stddev	.01	.0000	.0003	.0006	.007	.009	.04	.0012	.0002
%RSD	.1077	.8366	.5051	.7899	.4019	.1161	.4000	.4455	3.681
#1	12.23	.0047	.0623	.0747	1.763	7.776	9.991	.2679	.0059
#2	12.21	.0048	.0627	.0756	1.773	7.763	10.05	.2696	.0056

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2883	19.92	.7594	-.0189	18.20	-.0043	.0829	60.24	65.89
Stddev	.0004	.07	.0017	.0019	.04	.0039	.0015	.05	.14
%RSD	.1542	.3732	.2190	10.20	.2455	89.67	1.750	.0802	.2072
#1	.2880	19.87	.7583	-.0176	18.17	-.0070	.0839	60.20	65.99
#2	.2886	19.98	.7606	-.0203	18.24	-.0016	.0818	60.27	65.79

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	378.7	12.73	7.650	3.370	.0593	.0157	.0162	2.808	4.111
Stddev	.1	.03	.000	.017	.0009	.0004	.0003	.010	.017
%RSD	.0321	.2211	.0021	.5145	1.602	2.588	1.612	.3689	.4239
#1	378.6	12.75	7.650	3.358	.0586	.0160	-.0160	2.800	4.098
#2	378.7	12.71	7.649	3.383	.0599	.0154	-.0163	2.815	4.123

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8230	1.795	.4929	.0280	9.132	.0963	.1051
Stddev	.0019	.001	.0018	.0003	.018	.0030	.0001
%RSD	.2334	.0373	.3646	1.000	.1934	3.111	.1365
#1	.8217	1.794	.4917	.0282	9.119	.0941	.1050
#2	.8244	1.795	.4942	.0278	9.144	.0984	.1052

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	92301.	13581.	1658.7	5591.0
Stddev	125.	57.	7.2	19.0
%RSD	.13580	.42140	.43109	.34065
#1	92390.	13540.	1663.7	5604.4
#2	92213.	13621.	1653.6	5577.5

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Zoom In

Zoom Out

Sample Name: jb67495-19a Acquired: 5/30/2014 17:34:59 Type: Unk
Method: Accutest1(v93) Mode: CONC Corr. Factor: 2.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: soil rerun 4th

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	3.079	.0029	.0198	.0561	1.038	1.962	4.852	.1877	.0072
Stddev	.009	.0000	.0006	.0002	.001	.008	.010	.0001	.0004
%RSD	.2877	.0734	2.799	.3698	.0622	.3963	.1993	.0673	5.893
#1	3.085	.0029	.0194	.0553	1.038	1.957	4.846	.1878	.0075
#2	3.072	.0029	.0202	.0550	1.037	1.968	4.859	.1876	.0069
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	2.368	12.45	.5182	-.0089	14.25	.0184	.0699	40.55	57.86
Stddev	.0013	.00	.0000	.0037	.00	.0049	.0022	.02	.03
%RSD	.5634	.0159	.0019	41.57	.0208	26.80	3.141	.0380	.0584
#1	2.358	12.46	.5182	-.0115	14.25	.0149	.0684	40.56	57.84
#2	2.377	12.45	.5182	-.0063	14.25	.0218	.0715	40.53	57.89
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	552.2	15.68	4.815	2.049	.0495	-.0032	-.0160	2.442	4.156
Stddev	.2	.01	.009	.006	.0008	.0004	.0005	.008	.006
%RSD	.0432	.0401	.1786	.2838	1.599	12.49	2.882	.3356	.1559
#1	552.4	15.68	4.821	2.045	.0501	-.0035	-.0163	2.448	4.152
#2	552.0	15.67	4.809	2.054	.0490	-.0029	-.0157	2.436	4.161
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.3883	2.451	.1606	.0283	9.412	.0182	.0625		
Stddev	.0001	.004	.0009	.0003	.021	.0002	.0002		
%RSD	.0372	.1555	.5307	.9459	.2238	.9563	.3713		
#1	.3884	2.449	.1600	.0285	9.397	.0183	.0624		
#2	.3882	2.454	.1612	.0281	9.427	.0181	.0627		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	93143.	13545.	1667.4	5729.9					
Stddev	181.	16.	.3	4.0					
%RSD	.19477	.11506	.01698	.06975					
#1	93271.	13556.	1667.2	5732.7					
#2	93015.	13534.	1667.6	5727.1					

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Sample Name: jb67867-1 2 Acquired: 5/30/2014 17:47:32 Type: Unk
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: soil 4th multi

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.5759	.0045	.0041	.0426	.1542	.7193	.8640	2.331	.0009
Stddev	.0002	.0000	.0000	.0003	.0001	.0032	.0013	.003	.0003
%RSD	.0423	.4461	.8589	.7571	.0775	.4448	.1495	.1280	37.32
#1	.5760	.0045	.0041	.0424	.1543	.7171	.8649	2.333	.0006
#2	.5757	.0045	.0041	.0429	.1541	.7216	.8631	2.329	.0011
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.2195	.9618	.0719	.0047	.7025	.0096	.0076	47.01	57.63
Stddev	.0003	.0027	.0004	.0011	.0013	.0012	.0013	.04	.03
%RSD	.1367	.2774	.5755	23.79	.1864	12.15	17.58	.0910	.0459
#1	.2193	.9637	.0716	.0039	.7035	.0104	.0086	47.04	57.65
#2	.2197	.9599	.0722	.0055	.7016	.0088	.0067	46.98	57.61
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	171.8	11.86	4.948	2.212	.0371	.0028	-.0092	3.224	.0591
Stddev	.0	.01	.005	.002	.0007	.0000	.0003	.006	.0011
%RSD	.0143	.0849	.0923	.1091	1.882	1.016	3.348	.1821	1.934
#1	171.8	11.86	4.944	2.210	.0376	.0029	-.0090	3.228	.0583
#2	171.8	11.85	4.951	2.214	.0366	.0028	-.0094	3.220	.0599
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.2720	1.834	.0211	.0236	27.48	.0004	.0866		
Stddev	.0003	.001	.0002	.0000	.03	.0011	.0003		
%RSD	.1241	.0341	.7412	.0041	.1097	260.6	.3033		
#1	.2723	1.834	.0210	.0236	27.50	-.0004	.0864		
#2	.2718	1.833	.0212	.0236	27.46	.0013	.0868		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	91487.	13521.	1655.6	5503.9					
Stddev	90.	21.	1.1	1.7					
%RSD	.09808	.15369	.06790	.03080					
#1	91423.	13535.	1654.8	5502.7					
#2	91550.	13506.	1656.4	5505.1					

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Sample Name: jb67495-12a Acquired: 5/30/2014 17:41:07 Type: Unk
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: soil rerun 4th

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.5806	.0021	.0195	.8789	232.4	.4276	9.146	4.942	-.0041
Stddev	.0005	.0001	.0001	.0014	1.5	.0020	.011	.006	.0001
%RSD	.0886	5.063	.2831	.1622	.6481	.4591	.1220	.1307	3.419
#1	.5802	.0022	.0195	.8779	231.3	.4262	9.138	4.937	-.0040
#2	.5810	.0020	.0194	.8799	233.5	.4289	9.153	4.947	-.0042
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	3.723	3.515	.6267	-.0272	.1472	-.0107	5.871	308.4	2270.
Stddev	.015	.033	.0062	.0006	.0002	.0032	.050	.4	.24
%RSD	.4140	.9385	.9820	2.211	.1305	29.74	.8438	.1223	1.064
#1	3.712	3.492	.6224	-.0268	.1473	-.0130	5.836	308.2	2287.
#2	3.734	3.538	.6311	-.0276	.1471	-.0085	5.906	308.7	2252.
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	499.0	374.8	1.052	5.461	.1453	.0069	-.0589	6.767	-.0049
Stddev	1.6	1.9	.0005	.008	.0011	.0000	.0008	.042	.0005
%RSD	.3146	.5100	.4309	.1511	.7461	.5591	1.280	.6244	10.39
#1	500.1	376.2	.1056	5.455	.1445	.0069	-.0594	6.738	-.0046
#2	497.9	373.5	.1049	5.467	.1460	.0070	-.0584	6.797	-.0053
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.4653	8.113	.0714	-.0468	44.87	.7987	.0651		
Stddev	.0004	.021	.0028	.0001	.19	.0026	.0009		
%RSD	.0818	.2572	3.907	.3137	.4191	.3266	1.310		
#1	.4655	8.098	.0695	-.0469	44.73	.7969	.0645		
#2	.4650	8.127	.0734	-.0467	45.00	.8006	.0657		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	73179.	11775.	540.63	4377.9					
Stddev	126.	84.	3.43	2.4					
%RSD	.17182	.71323	.63371	.05442					
#1	73268.	11715.	543.05	4376.2					
#2	73090.	11834.	538.21	4379.6					

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Sample Name: jb67868-1 Acquired: 5/30/2014 17:53:40 Type: Unk
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: soil 4th multi

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.3031	.0017	.0025	.0400	.1314	1.674	1.110	2.661	.1071
Stddev	.0008	.0000	.0001	.0003	.0005	.006	.004	.003	.0002
%RSD	.2599	1.757	4.279	.6262	.3450	.3368	.3301	.1009	.1420
#1	.3025	.0017	.0024	.0398	.1317	1.678	1.113	2.663	.1070
#2	.3036	.0017	.0026	.0402	.1311	1.670	1.108	2.659	.1072
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.1975	2.199	.1013	-.0009	5.892	.0119	.0511	47.96	67.84
Stddev	.0009	.001	.0003	.0025	.013	.0020	.0006	.01	.07
%RSD	.4354	.0268	.2688	284.5	.2263	17.18	1.134	.0214	.1027
#1	.1981	2.198	.1011	-.0026	5.902	.0134	.0507	47.96	67.79
#2	.1969	2.199	.1015	-.0009	5.883	.0105	.0516	47.95	67.89
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	248.3	14.06	4.934	3.618	.0402	.0284	-.0107	2.594	2.698
Stddev	.3	.06	.007	.008	.0004	.0007	.0003	.008	.010
%RSD	.1161	.4573	.1461	.2121	.9037	2.394	2.930	.3250	.3551
#1	248.1	14.02	4.929	3.624	.0404	.0279	-.0105	2.588	2.691
#2	248.5	14.11	4.940	3.613	.0399	.0288	-.0109	2.599	2.705
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.2305	3.259	.0309	.0336	11.58	.0970	.0563		
Stddev	.0003	.007	.0003	.0000	.01	.0003	.0004		
%RSD	.1499	.2167	1.026	.1159	.0827	.2779	.7597		
#1	.2303	3.264	.0307	.0336	11.59	.0971	.0566		
#2	.2308	3.254	.0311	.0336	11.58	.0968	.0560		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	91134.	13339.	1641.6	5530.6					
Stddev	171.	25.	5.0	7.7					
%RSD	.18739	.18902	.30442	.13906					
#1	91013.	13321.	1645.2	5524.8					
#2	91255.	13357.	1638.1	5535.7					

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Sample Name: mp79752-b1 Acquired: 5/30/2014 18:37:07 Type: Unk
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: soil 4th

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	4.329	.1121	.1029	1.024	.4378	.5138	1.132	1.068	.1140
Stddev	.003	.0001	.0001	.001	.0000	.0002	.002	.000	.0001
%RSD	.0766	.1184	.1317	.0734	.0062	.0409	.2093	.0415	.0806

#1	4.332	.1122	.1030	1.024	.4378	.5137	1.131	1.068	.1140
#2	4.327	.1120	.1028	1.025	.4379	.5140	1.134	1.068	.1141

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	1.052	1.083	4.117	4.290	1.056	4.196	1.005	56.81	13.09
Stddev	.003	.001	.000	.022	.000	.009	.002	.04	.02
%RSD	.2643	.0869	.0031	.5083	.0391	.2094	.1968	.0686	.1559

#1	1.050	1.084	4.117	4.275	1.056	4.203	1.004	56.78	13.10
#2	1.054	1.082	4.117	4.306	1.057	4.190	1.006	56.84	13.07

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	55.79	13.42	13.50	13.47	-0.020	.0006	-0.025	.0445	.0158
Stddev	.10	.02	.01	.01	.0000	.0002	.0014	.0006	.0007
%RSD	.1850	.1770	.0840	.0910	.6956	37.48	56.52	1.313	4.266

#1	55.86	13.44	13.51	13.46	-.0020	.0008	-.0034	.0441	.0153
#2	55.72	13.41	13.49	13.47	-.0019	.0005	-.0015	.0449	.0162

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Avg	.0002	.0037	.0040	.0073	.0048	-.0014	.0007
Stddev	.0000	.0002	.0012	.0005	.0007	.0001	.0002
%RSD	19.75	4.491	4.838	6.329	15.12	5.061	20.14

#1	.0002	.0038	.0248	.0076	.0043	-.0014	.0009
#2	.0002	.0036	.0232	.0069	.0053	-.0013	.0006

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	91590.	13196.	1649.7	5473.7
Stddev	100.	33.	1.3	3.4
%RSD	.10953	.25261	.07898	.06226

#1	91519.	13172.	1648.8	5471.3
#2	91661.	13219.	1650.6	5476.1

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Sample Name: jb67871-1 Acquired: 5/30/2014 18:49:14 Type: Unk
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: soil 4th

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	1.410	.0029	.0054	.2035	.1613	1.948	.5187	20.10	.0004
Stddev	.004	.0001	.0002	.0003	.0002	.007	.0001	.02	.0004
%RSD	.2489	2.966	4.368	.1416	.1453	.3574	.0113	.1055	100.5

#1	1.408	.0028	.0052	.2033	.1612	1.953	.5187	20.08	.0007
#2	1.413	.0029	.0055	.2037	.1615	1.943	.5186	20.11	.0001

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.2918	.8188	.3431	.0043	1.724	.0118	.0517	26.86	10.66
Stddev	.0003	.0011	.0003	.0030	.001	.0006	.0013	.04	.01
%RSD	.0992	.1402	.0959	69.40	.0769	4.814	2.438	.1445	.1404

#1	.2920	.8180	.3433	.0063	1.723	.0114	.0508	26.84	10.65
#2	.2916	.8196	.3428	.0022	1.725	.0122	.0526	26.89	10.67

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	519.2	5.671	10.41	4.537	.0172	-0.0099	-0.0083	4.800	.2600
Stddev	.6	.006	.02	.013	.0005	.0001	.0002	.002	.0009
%RSD	.1153	.0980	.1961	.2849	3.115	1.347	1.958	.0324	.3547

#1	519.6	5.668	10.39	4.527	.0175	-.0098	-.0082	4.601	.2593
#2	518.7	5.675	10.42	4.546	.0168	-.0100	-.0085	4.599	.2606

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Avg	.8026	2.614	.0430	.0586	30.80	.0073	.0900
Stddev	.0010	.001	.0000	.0002	.08	.0012	.0002
%RSD	.1294	.0243	.0849	.2762	.2476	16.56	.2210

#1	.8019	2.613	.0430	.0588	30.74	.0082	.0901
#2	.8034	2.614	.0429	.0585	30.85	.0065	.0898

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	89501.	13028.	1626.1	5799.4
Stddev	55.	5.	.1	1.0
%RSD	.06166	.04030	.00395	.01669

#1	89540.	13032.	1626.1	5798.7
#2	89462.	13024.	1626.2	5800.1

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Sample Name: mp79752-lc1 Acquired: 5/30/2014 18:43:13 Type: Unk
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: soil 4th

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	1.295	.6579	.7239	.3372	.6022	.3199	2.957	1.601	.2242
Stddev	.001	.0012	.0003	.0001	.0019	.0002	.007	.002	.0014
%RSD	.0619	.1842	.0465	.0296	.3170	.0720	.2242	.1023	.6331

#1	1.295	.6588	.7236	.3371	.6008	.3197	2.952	1.600	.2232
#2	1.294	.6571	.7241	.3373	.6035	.3200	2.962	1.602	.2252

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.6052	1.568	.7257	1.346	1.287	.8038	.5394	54.41	31.72
Stddev	.0013	.004	.0016	.003	.001	.0003	.0020	.10	.00
%RSD	.2074	.2730	.2272	.2187	.0514	.0400	.3716	.1914	.0085

#1	.6043	1.565	.7245	1.344	1.288	.8040	.5380	54.48	31.72
#2	.6061	1.571	.7268	1.348	1.287	.8035	.5409	54.34	31.72

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	73.30	19.45	17.12	3.832	.5988	.4041	-0.0099	4.488	.5609
Stddev	.11	.02	.05	.011	.0023	.0012	.0002	.006	.0014
%RSD	.1486	.1274	.2943	.2759	.3824	.3052	2.281	.1256	.2422

#1	73.38	19.43	17.16	3.839	.6004	.4032	-.0098	4.484	.5599
#2	73.22	19.47	17.08	3.824	.5972	.4050	-.0101	4.492	.5618

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Avg	.5606	1.969	.0184	.0479	1.207	-0.0057	.0443
Stddev	.0002	.002	.0006	.0004	.004	.0009	.0004
%RSD	.0347	.1124	3.420	.8174	.3376	15.23	.8516

#1	.5607	1.967	.0180	.0477	1.204	-.0051	.0446
#2	.5604	1.971	.0189	.0482	1.210	-.0063	.0441

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	92063.	13335.	1670.6	5395.8
Stddev	171.	37.	1.8	7.0
%RSD	.18571	.27933	.10486	.12937

#1	92184.	13309.	1671.9	5400.7
#2	91943.	13362.	1669.4	5390.9

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Sample Name: jb67702-1a Acquired: 5/30/2014 18:55:25 Type: Unk
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: soil 6th sunocoqc

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.3986	.0048	.0013	.0387	.1441	.1710	2.276	.0806	.0001
Stddev	.0010	.0000	.0001	.0001	.0009	.0003	.004	.0001	.0002
%RSD	.2522	.8001	4.982	.3741	.6223	.1851	.1691	.1641	217.2

#1	.3979	.0049	.0013	.0386	.1435	.1712	2.273	.0807	.0002
#2	.3993	.0048	.0014	.0388	.1448	.1708	2.278	.0805	.0000

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.2026	.6006	.0333	.0034	.3070	.0034	.0037	71.54	30.45
Stddev	.0004	.0008	.0007	.0014	.0005	.0005	.0000	.09	.04
%RSD	.1738	.1394	2.248	41.46	.1669	15.35	.1271	.1234	.1344

#1	.2029	.6000	.0339	.0043	.3074	.0030	.0037	71.48	30.47
#2	.2024	.6012	.0328	.0024	.3066	.0038	.0037	71.60	30.42

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	119.7	26.68	9.906	2.913	.0614	-0.0025	-0.0100	2.304	.0311
Stddev	.2	.01	.037	.002	.0008	.0002	.0004	.000	.0011
%RSD	.1709	.0209	.3739	.0564	1.299	7.700	3.893	.0024	3.560

#1	119.9	26.68	9.880	2.914	.0608	-.0024	-.0103	2.304	.0319
#2	119.6	26.68	9.932	2.912	.0619	-.0026	-.0098	2.304	.0303

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Avg	.1854	1.598	.0143	.0158	1.387	-0.0029	.0692
Stddev	.0001	.001	.0005	.0001	.003	.0001	.0009
%RSD	.0341	.0589	3.351	.5478	.2248	1.818	1.366

#1	.1855	1.597	.0139	.0159	1.385	-.0028	.0686
#2	.1854	1.599	.0146	.0158	1.390	-.0029	.0699

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	93522.	13564.	1709.1	5476.2
Stddev	121.	29.	4.5	7.0
%RSD	.12986	.21482	.26604	.12783

#1	93608.	13544.	1712.3	5481.1
#2	93436.	13585.	1705.9	5471.2

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Sample Name: mp79751-s1 2 Acquired: 5/30/2014 19:01:35 Type: Unk
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: soil 4th

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	4.504	.1074	.1022	1.012	.4778	.6165	4.749	1.078	.1179
Stddev	.001	.0001	.0003	.002	.0000	.0015	.008	.001	.0003
%RSD	.0236	.0475	.2935	.1571	.0078	.2456	.1729	.1183	.2625
#1	4.505	.1074	.1024	1.011	.4778	.6176	4.743	1.077	.1182
#2	4.503	.1074	.1020	1.014	.4778	.6155	4.755	1.079	.1177
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	1.057	1.434	4.103	3.903	1.821	4.101	.5763	104.6	522.1
Stddev	.003	.004	.003	.002	.004	.002	.0005	.1	3.9
%RSD	.3017	.2556	.0697	.0580	.2018	.0362	.0796	.0552	.7449
#1	1.054	1.432	4.101	3.905	1.818	4.100	.5766	104.6	524.8
#2	1.059	1.437	4.105	3.901	1.824	4.102	.5759	104.5	519.3
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	158.0	62.64	18.76	16.97	.0410	-.0016	-.0218	6.079	.0210
Stddev	.3	.01	.03	.00	.0014	.0002	.0003	.001	.0015
%RSD	.1592	.0119	.1780	.0005	3.517	11.34	1.201	.0121	7.326
#1	158.2	62.64	18.73	16.97	.0400	-.0015	-.0216	6.080	.0221
#2	157.8	62.63	18.78	16.97	.0420	-.0017	-.0220	6.079	.0199
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	1.124	1.430	.0209	.0636	2.855	-.0026	.0493		
Stddev	.002	.002	.0008	.0001	.002	.0003	.0009		
%RSD	.1975	.1131	3.597	.2280	.0519	11.38	1.824		
#1	1.122	1.429	.0203	.0635	2.854	-.0024	.0486		
#2	1.125	1.431	.0214	.0637	2.856	-.0028	.0499		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	86584.	12882.	1548.1	4870.9					
Stddev	52.	40.	1.1	6.0					
%RSD	.06006	.30690	.06785	.12262					
#1	86621.	12854.	1547.4	4875.1					
#2	86547.	12910.	1548.9	4866.6					

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Sample Name: jb66447-2r Acquired: 5/30/2014 19:13:50 Type: Unk
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: soil 4th

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.3985	.0028	.0012	.0311	.0698	.1300	3.780	.0713	.0035
Stddev	.0011	.0000	.0002	.0002	.0000	.0000	.016	.0006	.0011
%RSD	.2756	.4368	18.70	.5013	.0119	.0304	.4169	.8752	32.09
#1	.3993	.0028	.0014	.0310	.0698	.1301	3.791	.0709	.0027
#2	.3977	.0028	.0010	.0312	.0698	.1300	3.769	.0718	.0043
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.1270	.6503	.0785	-.0098	.5340	.0222	.0044	53.26	522.7
Stddev	.0002	.0023	.0010	.0028	.0015	.0045	.0005	.10	9.6
%RSD	.1765	.3518	1.236	28.06	.2884	20.09	10.81	.1791	1.835
#1	.1271	.6487	.0778	-.0079	.5351	.0253	.0047	53.33	516.0
#2	.1268	.6519	.0792	-.0118	.5329	.0190	.0040	53.19	529.5
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	96.14	55.23	6.326	4.835	.0378	-.0019	-.0210	2.915	.0179
Stddev	.28	.27	.006	.010	.0015	.0002	.0011	.006	.0005
%RSD	.2867	.4910	.0930	.2118	3.957	12.00	5.469	.2039	2.588
#1	95.94	55.03	6.330	4.842	.0368	-.0021	-.0202	2.910	.0176
#2	96.33	55.42	6.321	4.828	.0389	-.0018	-.0218	2.919	.0183
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	1.005	1.819	.0107	.0632	2.963	-.0018	.0479		
Stddev	.003	.003	.0004	.0001	.017	.0011	.0008		
%RSD	.3303	.1864	4.075	.1385	.5605	59.64	1.741		
#1	1.008	1.821	.0104	.0631	2.951	-.0026	.0485		
#2	1.003	1.816	.0110	.0632	2.975	-.0011	.0473		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	86160.	12858.	1576.3	4871.0					
Stddev	212.	39.	2.7	1.2					
%RSD	.24573	.30353	.17195	.02558					
#1	86010.	12830.	1578.3	4870.2					
#2	86310.	12885.	1574.4	4871.9					

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Sample Name: mp79751-s2 Acquired: 5/30/2014 19:07:44 Type: Unk
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: soil 4th

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	4.303	.1007	.0944	.9480	.4441	.6158	3.821	1.049	.1084
Stddev	.001	.0001	.0004	.0016	.0001	.0012	.002	.003	.0004
%RSD	.0308	.0794	.3842	.1649	.0165	.1934	.0574	.2580	.3262
#1	4.304	.1006	.0941	.9491	.4441	.6167	3.823	1.051	.1087
#2	4.302	.1007	.0946	.9469	.4442	.6150	3.820	1.047	.1082
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	1.036	2.023	3.781	3.661	1.753	3.798	.5546	99.44	464.3
Stddev	.001	.001	.003	.009	.005	.004	.0021	.09	3.0
%RSD	.1392	.0695	.0883	.2391	.2850	.1198	.3818	.0948	.6508
#1	1.037	2.024	3.783	3.667	1.757	3.801	.5561	99.37	462.2
#2	1.035	2.022	3.779	3.655	1.749	3.795	.5531	99.51	466.4
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	169.8	46.95	18.59	16.51	.0385	-.0031	-.0217	5.397	.0222
Stddev	.0	.08	.00	.00	.0001	.0001	.0003	.017	.0009
%RSD	.0123	.1684	.0039	.0085	.3658	2.663	1.413	.3189	4.208
#1	169.8	47.00	18.59	16.51	.0384	-.0030	-.0215	5.409	.0229
#2	169.9	46.89	18.59	16.51	.0386	-.0031	-.0219	5.385	.0216
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.9989	1.294	.0214	.0520	2.435	.0000	.0459		
Stddev	.0001	.001	.0011	.0000	.007	.0020	.0002		
%RSD	.0109	.0790	5.273	.0131	.2833	51200.	.4289		
#1	.9990	1.293	.0206	.0520	2.440	-.0014	.0458		
#2	.9988	1.295	.0222	.0520	2.430	.0014	.0460		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	86480.	12968.	1586.8	4970.5					
Stddev	43.	17.	2.6	12.0					
%RSD	.04951	.13352	.16475	.24107					
#1	86450.	12980.	1584.9	4962.0					
#2	86511.	12956.	1588.6	4979.0					

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Sample Name: mp79751-sd1 Acquired: 5/30/2014 19:20:03 Type: Unk
Method: Accutest1(v93) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: soil 4th

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.3833	.0027	.0024	.0273	.0728	.1201	3.893	.0736	.0021
Stddev	.0079	.0000	.0002	.0018	.0010	.0001	.025	.0007	.0014
%RSD	2.050	1.345	6.573	6.428	1.328	.0842	.6505	.9405	64.43
#1	.3777	.0027	.0023	.0261	.0722	.1201	3.875	.0731	.0011
#2	.3888	.0027	.0025	.0286	.0735	.1200	3.911	.0741	.0031
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.1254	.6940	.0744	.0070	.5574	.0127	.0010	49.41	523.7
Stddev	.0011	.0059	.0035	.0040	.0004	.0009	.0019	.78	9.4
%RSD	.8698	.8516	4.681	57.51	.0693	7.060	182.0	1.571	1.793
#1	.1246	.6899	.0768	.0099	.5577	.0134	-.0003	48.86	517.0
#2	.1261	.6982	.0719	.0042	.5571	.0121	.0023	49.96	530.3
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	96.85	53.84	5.869	4.407	.0210	.0008	-.0201	2.911	.0282
Stddev	1.57	1.03	.141	.072	.0032	.0007	.0050	.028	.0032
%RSD	1.619	1.913	2.407	1.642	15.03	86.88	25.03	.9674	11.35
#1	95.74	53.11	5.769	4.356	.0188	.0013	-.0165	2.891	.0305
#2	97.96	54.57	5.968	4.458	.0232	.0003	-.0236	2.931	.0259
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.9770	1.804	.0226	.0635	2.898	.0011	.0428		
Stddev	.0170	.010	.0031	.0002	.032	.0004	.0026		
%RSD	1.740	.5307	13.67	.3030	1.119	32.10	6.025		
#1	.9650	1.798	.0204	.0636	2.875	.0013	.0409		
#2	.9891	1.811	.0247	.0634	2.921	.0008	.0446		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	91825.	13080.	1660.6	5402.9					
Stddev	121.	47.	2.5	20.7					
%RSD	.13156	.35757	.15189	.38369					
#1	91910.	13113.	1662.3	5417.6					
#2	91739.	13047.	1658.8	5388.2					

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Sample Name: mp79771-mb1 2 Acquired: 5/30/2014 19:26:14 Type: Unk Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000 User: admin Custom ID1: Custom ID2: Custom ID3: Comment: soil 6th multi									
Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.0009	.0000	.0002	.0001	.0005	.0007	.0007	.0003	.0003
Stddev	.0000	.0000	.0000	.0002	.0002	.0001	.0001	.0000	.0003
%RSD	1.249	161.2	8.614	167.4	40.84	8.532	8.970	5.962	78.50
#1	.0009	.0000	.0002	.0002	.0007	.0008	.0007	.0003	.0001
#2	.0009	.0000	.0002	.0000	.0004	.0007	.0006	.0003	.0005
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0001	.0015	.0002	.0000	.0006	.0017	.0013	.0222	.0459
Stddev	.0001	.0000	.0009	.000	.0007	.0026	.0008	.0057	.0011
%RSD	62.77	2.428	387.2	216.4	107.2	159.6	61.07	25.82	2.408
#1	.0002	.0015	.0009	.0000	.0001	.0002	.0018	.0263	.0451
#2	.0001	.0016	.0004	.0001	.0011	.0035	.0007	.0182	.0467
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0344	.0224	.0032	.0187	.0005	.0004	.0001	.0282	.0095
Stddev	.0000	.0121	.0002	.0029	.0007	.0002	.0001	.0028	.0001
%RSD	.0281	53.80	7.032	15.45	159.8	39.32	50.13	9.906	1.265
#1	.0344	.0139	.0030	.0167	.0010	.0005	.0001	.0262	.0096
#2	.0344	.0309	.0034	.0208	.0001	.0003	.0002	.0302	.0094
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0003	.0009	.0048	.0015	.0049	.0011	.0003		
Stddev	.0000	.0003	.0001	.0001	.0004	.0004	.0005		
%RSD	7.386	32.87	2.358	5.147	7.336	38.09	151.5		
#1	.0003	.0007	.0048	.0016	.0046	.0008	.0007		
#2	.0003	.0011	.0049	.0015	.0051	.0015	.0000		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	94662.	13221.	1695.3	5773.3					
Stddev	191.	11.	2.2	11.8					
%RSD	.20150	.08505	.13179	.20364					
#1	94797.	13213.	1693.7	5765.0					
#2	94527.	13229.	1696.8	5781.6					

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Sample Name: ccv Acquired: 5/30/2014 19:32:32 Type: QC Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000 User: admin Custom ID1: Custom ID2: Custom ID3: Comment: 3									
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm		
Avg	1.988	1.991	1.898	1.981	1.937	1.889	1.983		
Stddev	.003	.003	.020	.001	.003	.003	.005		
%RSD	.1358	.1405	1.062	.0615	.1703	.1376	.2371		
#1	1.986	1.993	1.883	1.981	1.939	1.887	1.980		
#2	1.990	1.989	1.912	1.982	1.935	1.890	1.987		
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass		
Value									
Range									
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Units	Cts/S	Cts/S	Cts/S	Cts/S					
Avg	89425.	12927.	1631.4	5268.5					
Stddev	126.	97.	2.6	9.3					
%RSD	.14129	.74774	.15836	.17664					
#1	89335.	12858.	1633.3	5275.1					
#2	89514.	12995.	1629.6	5261.9					

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Sample Name: ccv Acquired: 5/30/2014 19:32:32 Type: QC Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000 User: admin Custom ID1: Custom ID2: Custom ID3: Comment: 3									
Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.971	1.997	1.904	1.922	1.977	1.916	2.065	1.986	2.444
Stddev	.004	.003	.005	.006	.001	.007	.004	.005	.0005
%RSD	.2177	.1294	.2683	.3055	.0263	.3696	.2043	.2650	.1885
#1	1.968	1.999	1.901	1.918	1.977	1.921	2.068	1.982	2.447
#2	1.974	1.995	1.908	1.926	1.977	1.911	2.062	1.989	2.440
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.020	1.995	1.915	1.978	2.021	1.907	1.899	40.04	39.22
Stddev	.008	.007	.002	.003	.007	.001	.007	.03	.17
%RSD	.3978	.3609	.1036	.1295	.3547	.0467	.3787	.0860	.4343
#1	2.026	1.990	1.914	1.976	2.016	1.907	1.894	40.01	39.34
#2	2.014	2.000	1.917	1.980	2.026	1.906	1.904	40.06	39.10
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	39.68	39.86	40.55	41.19	1.899	1.978	1.901	4.797	1.967
Stddev	.09	.15	.04	.05	.005	.005	.003	.009	.003
%RSD	.2309	.3808	.0985	.1296	.2668	.2404	.1777	.1862	.1432
#1	39.74	39.97	40.52	41.15	1.895	1.974	1.904	4.790	1.965
#2	39.61	39.75	40.58	41.23	1.902	1.981	1.899	4.803	1.969
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

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Sample Name: ccb Acquired: 5/30/2014 19:38:36 Type: QC Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000 User: admin Custom ID1: Custom ID2: Custom ID3: Comment:									
Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008	.0004	.0005	.0003	.0001	.0009	.0004	.0000	.0004
Stddev	.0002	.0000	.0001	.0001	.0003	.0002	.0001	.0001	.0000
%RSD	21.49	8.408	16.51	40.74	264.9	19.27	23.10	136.0	6.396
#1	.0006	.0004	.0006	.0002	.0004	.0010	.0003	.0000	.0004
#2	.0009	.0004	.0005	.0004	.0001	.0008	.0004	.0001	.0004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
High Limit									
Low Limit									
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	.0008	.0012	.0001	.0006	.0011	.0017	.0145	.0061
Stddev	.0000	.0002	.0001	.0012	.0009	.0008	.0004	.0007	.0002
%RSD	4.890	21.47	12.09	868.7	145.1	76.09	23.66	5.104	3.586
#1	.0004	.0009	.0013	.0010	.0000	.0017	.0014	.0140	.0063
#2	.0004	.0007	.0011	.0007	.0013	.0005	.0020	.0151	.0060
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
High Limit									
Low Limit									
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F_0125	.0277	.0253	.0078	.0017	F_0025	.0012	.0089	.0003
Stddev	.0007	.0000	.0003	.0015	.0003	.0002	.0001	.0000	.0003
%RSD	5.361	.0834	.9916	19.34	15.79	6.387	7.800	.4062	101.0
#1	.0120	.0277	.0251	.0089	.0019	.0027	.0011	.0089	.0001
#2	.0130	.0277	.0255	.0068	.0015	.0024	.0012	.0089	.0004
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value	.0100					.0020			
High Limit									
Low Limit	-.0100					-.0020			

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Sample Name: ccb Acquired: 5/30/2014 19:38:36 Type: QC							
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000							
User: admin Custom ID1: Custom ID2: Custom ID3:							
Comment:							
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005	.0009	F .0223	F .0014	.0001	.0005	.0005
Stddev	.0001	.0003	.0010	.0002	.0002	.0008	.0002
%RSD	13.26	31.96	4.534	10.56	149.4	158.4	46.63
#1	.0005	.0011	.0230	.0013	.0003	.0011	.0007
#2	.0004	.0007	.0216	.0015	.0000	-.0001	.0003
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			.0123	.0010			
Low Limit			-.0123	-.0010			
Int. Std.	Y_3600	Y_3710	Y_2243	In2306			
Units	Cts/S	Cts/S	Cts/S	Cts/S			
Avg	92475.	12803.	1674.7	5683.3			
Stddev	168.	10.	3.5	8.6			
%RSD	.18220	.07779	.20954	.15071			
#1	92594.	12810.	1677.2	5677.3			
#2	92356.	12796.	1672.2	5689.4			

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Sample Name: cri Acquired: 5/30/2014 19:44:55 Type: QC							
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000							
User: admin Custom ID1: Custom ID2: Custom ID3:							
Comment:							
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0109	.0112	F .0748	.0128	.0520	.0200	.0239
Stddev	.0000	.0002	.0004	.0001	.0007	.0003	.0003
%RSD	.3188	1.412	.5093	.8934	1.401	1.519	1.434
#1	.0109	.0111	.0745	.0129	.0515	.0202	.0241
#2	.0110	.0113	.0750	.0128	.0526	.0198	.0237
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value			.0500				
Range			30.00%				
Int. Std.	Y_3600	Y_3710	Y_2243	In2306			
Units	Cts/S	Cts/S	Cts/S	Cts/S			
Avg	93542.	12944.	1683.1	5683.0			
Stddev	374.	28.	1.1	3.4			
%RSD	.39996	.21700	.06406	.06034			
#1	93278.	12924.	1683.9	5685.4			
#2	93807.	12964.	1682.4	5680.6			

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Sample Name: cri Acquired: 5/30/2014 19:44:55 Type: QC										
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000										
User: admin Custom ID1: Custom ID2: Custom ID3:										
Comment:										
Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280	
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.2038	.0023	.0032	.0495	.0105	.0089	.0166	.0102	.0048	
Stddev	.0005	.0000	.0002	.0002	.0001	.0001	.0000	.0001	.0000	
%RSD	.2265	.7396	5.172	.3179	.5202	1.589	.2336	1.228	.0432	
#1	.2041	.0023	.0034	.0494	.0105	.0088	.0166	.0101	.0048	
#2	.2034	.0023	.0031	.0496	.0106	.0090	.0166	.0103	.0048	
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	
Value										
Range										
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179	
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.0526	.0216	.0085	.0083	.0037	.0115	.0068	.2125	5.177	
Stddev	.0002	.0001	.0006	.0009	.0005	.0014	.0003	.0037	.015	
%RSD	.4539	.5919	6.599	10.68	14.16	12.42	4.383	1.740	.2905	
#1	.0528	.0215	.0089	.0089	.0041	.0125	.0070	.2099	5.167	
#2	.0525	.0217	.0081	.0077	.0033	.0105	.0066	.2151	5.188	
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	
Value										
Range										
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899	
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.1092	5.542	5.264	5.161	.1006	.0221	.0555	.2062	.0109	
Stddev	.0028	.009	.014	.011	.0008	.0001	.0006	.0006	.0002	
%RSD	2.589	.1626	.2668	.2190	.8329	.2363	1.067	.2948	1.420	
#1	.1112	5.548	5.274	5.169	.1012	.0221	.0559	.2058	.0108	
#2	.1072	5.535	5.255	5.153	.1000	.0222	.0550	.2066	.0110	
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	
Value										
Range										

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Sample Name: crid Acquired: 5/30/2014 19:51:10 Type: QC										
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000										
User: admin Custom ID1: Custom ID2: Custom ID3:										
Comment:										
Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280	
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.0043	.0010	.0011	.0031	.0021	F .0010	.0033	.0038	F .0007	
Stddev	.0002	.0000	.0001	.0001	.0001	.0001	.0001	.0001	.0001	
%RSD	4.319	3.054	10.59	2.442	4.389	9.615	1.736	1.779	8.035	
#1	.0044	.0010	.0012	.0031	.0020	.0009	.0033	.0039	.0006	
#2	.0042	.0011	.0010	.0032	.0022	.0010	.0034	.0038	.0007	
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	
Value						.0020			.0010	
Range						-30.00%			-30.00%	
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179	
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.0023	.0106	.0031	.0017	.0032	.0063	F .0041	.1128	1.038	
Stddev	.0002	.0001	.0011	.0001	.0009	.0002	.0003	.0018	.006	
%RSD	6.687	.9226	34.19	5.165	29.13	3.624	7.826	1.639	.5962	
#1	.0024	.0105	.0038	.0017	.0025	.0065	.0043	.1115	1.034	
#2	.0022	.0107	.0023	.0016	.0038	.0061	.0039	.1141	1.042	
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	
Value							.0030			
Range							30.00%			
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899	
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.0001	.1108	2.172	1.036	.0104	.0005	-.0002	.0019	-.0003	
Stddev	.0010	.0143	.022	.000	.0003	.0002	.0004	.0010	.0003	
%RSD	649.5	12.86	1.036	.0237	2.846	25.80	223.0	53.75	122.4	
#1	.0008	.1007	2.188	1.036	.0106	.0004	.0001	.0012	-.0005	
#2	-.0005	.1209	2.156	1.037	.0102	.0006	-.0005	.0026	.0000	
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	None	None	None	
Value										
Range										

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Sample Name: crid Acquired: 5/30/2014 19:51:10 Type: QC							
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000							
User: admin Custom ID1: Custom ID2: Custom ID3:							
Comment:							
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0007	.0096	.0004	.0009	.0004	.0015
Stddev	.0000	.0000	.0000	.0001	.0023	.0005	.0003
%RSD	3.843	4.963	.4751	13.73	242.0	135.8	19.75
#1	.0002	.0007	.0096	.0004	-.0007	-.0008	.0013
#2	.0002	.0007	.0097	.0004	.0025	.0000	.0017
Check ?	None	None	None	None	None	None	None
Value							
Range							
Int. Std.	Y_3600	Y_3710	Y_2243	In2306			
Units	Cts/S	Cts/S	Cts/S	Cts/S			
Avg	93745.	12920.	1679.1	5708.2			
Stddev	307.	60.	4.0	4.1			
%RSD	.32797	.46578	.23938	.07245			
#1	93963.	12963.	1682.0	5711.1			
#2	93528.	12878.	1676.3	5705.3			

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Sample Name: cria Acquired: 5/30/2014 19:57:29 Type: QC							
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000							
User: admin Custom ID1: Custom ID2: Custom ID3:							
Comment:							
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0006	.0075	.0004	.0001	-.0009	.0015
Stddev	.0001	.0005	.0009	.0001	.0004	.0002	.0002
%RSD	53.25	82.14	11.38	36.97	368.6	23.09	15.40
#1	.0002	.0002	.0081	.0003	.0003	-.0008	.0017
#2	.0001	.0009	.0069	.0005	-.0002	-.0010	.0014
Check ?	None	None	None	None	None	None	None
Value							
Range							
Int. Std.	Y_3600	Y_3710	Y_2243	In2306			
Units	Cts/S	Cts/S	Cts/S	Cts/S			
Avg	94820.	13063.	1696.4	5741.5			
Stddev	92.	18.	7.6	13.5			
%RSD	.09657	.13602	.44637	.23576			
#1	94884.	13076.	1701.7	5751.1			
#2	94755.	13051.	1691.0	5732.0			

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Zoom In

Zoom Out

Sample Name: cria Acquired: 5/30/2014 19:57:29 Type: QC										
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000										
User: admin Custom ID1: Custom ID2: Custom ID3:										
Comment:										
Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280	
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.0004	.0000	.0000	.0003	.0004	.0010	.0000	.0002	.0006	
Stddev	.0001	.0000	.0000	.0002	.0002	.0001	.000	.0000	.0002	
%RSD	19.25	10.78	117.4	65.74	64.34	8.515	69.23	16.79	25.38	
#1	.0003	.0000	.0000	-.0005	-.0005	-.0010	-.0001	-.0003	-.0005	
#2	.0004	.0000	.0000	-.0002	-.0002	-.0009	.0000	-.0002	-.0007	
Check ?	None	None	None	None	None	None	None	None	None	
Value										
Range										
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179	
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.0003	.0009	.0194	.0003	.0222	.0207	.0205	.5165	.0040	
Stddev	.0000	.0003	.0001	.0005	.0002	.0011	.0005	.0038	.0001	
%RSD	15.34	31.00	.5874	159.2	.7098	5.241	2.662	.7444	1.742	
#1	.0003	-.0007	.0194	.0007	.0221	.0199	.0201	.5192	-.0041	
#2	.0003	-.0011	.0193	.0000	.0223	.0215	.0208	.5138	-.0040	
Check ?	None	None	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	
Value										
Range										
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899	
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.5372	.0030	.0182	-.0126	.0003	.0003	.0009	-.0012	.0003	
Stddev	.0005	.0064	.0202	.0049	.0000	.0001	.0003	.0005	.0009	
%RSD	.0858	214.7	111.1	39.37	10.76	20.92	36.34	38.57	313.9	
#1	.5368	.0075	.0039	-.0091	.0002	.0002	.0006	-.0009	-.0004	
#2	.5375	-.0016	.0325	-.0161	.0003	.0003	.0011	-.0015	.0009	
Check ?	Chk Pass	None	None	None	None	None	None	None	None	
Value										
Range										

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Zoom In

Zoom Out

Sample Name: icsa Acquired: 5/30/2014 20:03:49 Type: QC										
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000										
User: admin Custom ID1: Custom ID2: Custom ID3:										
Comment:										
Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280	
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	-.0005	.0000	.0010	.0033	-.0012	-.0035	.0012	-.0002	-.0034	
Stddev	.0002	.0000	.0000	.0002	.0000	.0001	.0001	.0003	.0001	
%RSD	32.06	98.01	2.916	6.796	.0560	2.818	5.894	137.9	1.569	
#1	-.0006	.0000	.0010	.0034	-.0012	-.0034	.0012	-.0004	-.0033	
#2	-.0004	.0000	.0011	.0031	-.0012	-.0035	.0011	.0000	-.0034	
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	
High Limit										
Low Limit										
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179	
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	-.0017	-.0008	-.0019	.0022	.0058	.0141	.0091	515.7	382.8	
Stddev	.0001	.0006	.0015	.0006	.0001	.0013	.0024	6.2	2.3	
%RSD	3.747	79.76	77.82	25.36	1.062	8.988	26.00	1.201	.6103	
#1	-.0017	-.0012	-.0029	.0018	.0057	.0132	.0108	511.3	381.1	
#2	-.0018	-.0003	-.0009	.0026	.0058	.0150	.0074	520.1	384.4	
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	
High Limit										
Low Limit										
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899	
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	194.7	550.6	.0076	-.0178	-.0118	-.0013	-.0152	-.0064	.0080	
Stddev	.3	1.9	.0110	.0026	.0008	.0002	.0001	.0001	.0015	
%RSD	.1399	.3419	144.4	14.72	6.789	16.24	.3622	1.891	19.08	
#1	194.5	549.3	.0154	-.0159	-.0112	-.0012	-.0152	-.0063	.0091	
#2	194.9	552.0	-.0002	-.0196	-.0124	-.0015	-.0151	-.0065	.0069	
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	
High Limit										
Low Limit										

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Sample Name: icsa		Acquired: 5/30/2014 20:03:49			Type: QC		Zoom Out
Method: Accutest1(v93)		Mode: CONC		Corr. Factor: 1.000000			
User: admin		Custom ID1:	Custom ID2:		Custom ID3:		
Comment:							
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0006	.0026	.0261	F .0144	-.0495	.0013	.0068
Stddev	.0000	.0004	.0004	.0004	.0006	.0003	.0005
%RSD	6.080	15.46	1.491	2.620	1.205	20.63	6.664
#1	-.0006	.0023	.0264	.0141	-.0499	.0015	.0065
#2	-.0006	.0029	.0259	.0146	-.0491	.0011	.0072
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit				.0100			
Low Limit				-.0100			
Int. Std.	Y_3600	Y_3710	Y_2243	In2306			
Units	Cts/S	Cts/S	Cts/S	Cts/S			
Avg	82726.	12409.	1497.0	4718.1			
Stddev	61.	42.	4.2	17.2			
%RSD	.07350	.33619	.27790	.36390			
#1	82683.	12438.	1499.9	4730.2			
#2	82769.	12379.	1494.0	4706.0			

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Sample Name: icsab		Acquired: 5/30/2014 20:10:13		Type: QC		Zoom Out	
Method: Accutest1(v93)		Mode: CONC		Corr. Factor: 1.000000			
User: admin		Custom ID1:		Custom ID2:		Custom ID3:	
Comment:							
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0006	.0056	.5109	.5136	.4424	.4975	.5583
Stddev	.0001	.0001	.0044	.0010	.0043	.0015	.0019
%RSD	22.27	2.132	.8557	.1909	.9625	.2943	.3339
#1	-.0005	.0057	.5078	.5129	.4394	.4985	.5596
#2	-.0007	.0055	.5140	.5143	.4454	.4965	.5569
Check ?	None	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							
Int. Std.	Y_3600	Y_3710	Y_2243	In2306			
Units	Cts/S	Cts/S	Cts/S	Cts/S			
Avg	81726.	12323.	1507.1	4726.5			
Stddev	113.	113.	1.5	.7			
%RSD	.13847	.91514	.09958	.01440			
#1	81806.	12403.	1508.1	4726.0			
#2	81646.	12244.	1506.0	4727.0			

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Sample Name: icsab		Acquired: 5/30/2014 20:10:13			Type: QC					Zoom Out
Method: Accust1(v93)		Mode: CONC			Corr. Factor: 1.000000					
User: admin		Custom ID1:		Custom ID2:		Custom ID3:				
Comment:										
Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280	
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.5000	.5065	.9857	.4689	.4757	.5181	.5182	.9550	1.125	
Stddev	.0013	.0001	.0020	.0001	.0008	.0004	.0007	.0008	.000	
%RSD	.2595	.0198	.2034	.0143	.1752	.0695	.1393	.0789	.0355	
#1	.5009	.5064	.9843	.4690	.4751	.5179	.5177	.9545	1.125	
#2	.4991	.5066	.9871	.4689	.4762	.5184	.5187	.9556	1.125	
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	
Value										
Range										
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179	
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.4788	.9447	1.108	.9205	.9634	1.033	.9992	.516.3	381.9	
Stddev	.0011	.0013	.003	.0018	.0021	.002	.0015	8.0	3.1	
%RSD	.2272	.1381	.2832	.1919	.2195	.1458	.1514	1.548	.8207	
#1	.4796	.9438	1.106	.9192	.9619	1.032	.9981	510.6	379.7	
#2	.4780	.9457	1.111	.9217	.9649	1.034	1.000	521.9	384.1	
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	
Value										
Range										
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899	
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	190.6	541.5	-.0047	-.0060	-.0130	.4902	.5234	-.0002	.0079	
Stddev	.4	2.6	.0131	.0042	.0029	.0023	.0002	.0012	.0005	
%RSD	.2064	.4859	276.5	69.29	22.26	.4714	.0314	512.3	6.202	
#1	190.3	539.6	.0045	-.0031	-.0150	.4885	.5235	-.0010	.0075	
#2	190.8	543.4	-.0140	-.0089	-.0109	.4918	.5233	.0006	.0082	
Check ?	Chk Pass	Chk Pass	None	None	None	Chk Pass	Chk Pass	None	None	
Value										
Range										

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Sample Name: Mnconf		Acquired: 5/30/2014 20:16:29				Type: Unk				Zoom Out
Method: Accutest1(v93)		Mode: CONC		Corr. Factor: 1.000000						
User: admin		Custom ID1:	Custom ID2:		Custom ID3:					
Comment:										
Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280	
Avg	.0005	-.0001	.0003	-.0001	-.0011	-.0019	10.35	-.0002	.0004	
Stddev	.0000	.0000	.0001	.0000	.0001	.0003	.04	.0001	.0001	
%RSD	6.254	36.99	43.87	73.13	12.42	14.60	.3729	27.90	37.50	
#1	.0004	-.0001	.0002	.0000	-.0012	-.0021	10.32	-.0002	.0005	
#2	.0005	-.0002	.0004	-.0001	-.0010	-.0017	10.38	-.0003	.0003	
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179	
Avg	.0000	.0031	.0012	.0104	.0020	.0027	.0016	.0220	.0266	
Stddev	.000	.0000	.0003	.0018	.0003	.0004	.0003	.0022	.0018	
%RSD	184.7	1.445	23.62	17.25	15.69	13.06	15.98	9.862	6.586	
#1	-.0001	.0030	.0010	.0091	.0018	.0025	.0018	.0205	.0254	
#2	.0000	.0031	.0014	.0116	.0022	.0030	.0014	.0235	.0278	
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899	
Avg	.0082	-.0290	.0060	-.0084	.0004	.0007	.0000	.0381	-.0048	
Stddev	.0012	.0146	.0092	.0108	.0004	.0002	.0002	.0006	.0002	
%RSD	14.63	50.50	153.6	168.6	102.5	23.00	458.1	1.449	4.264	
#1	.0073	-.0393	-.0005	.0012	.0001	.0008	.0002	.0385	-.0046	
#2	.0090	-.0186	.0125	-.0141	.0007	.0006	-.0001	.0377	-.0049	
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707			
Avg	.0002	.0006	.0129	.0031	-.0037	.0001	.0017			
Stddev	.0000	.0003	.0005	.0001	.0006	.0001	.0001			
%RSD	3.105	40.98	3.974	2.244	15.49	118.9	8.485			
#1	.0002	.0004	.0132	.0031	-.0041	.0000	.0018			
#2	.0002	.0008	.0125	.0032	-.0033	.0002	.0016			
Int. Std.	Y_3600	Y_3710	Y_2243	In2306						
Avg	94280.	12959.	1692.0	5732.8						
Stddev	2.	.	.8	8.3						
%RSD	.00245	.00068	.04619	.14529						
#1	94282.	12959.	1692.6	5738.6						
#2	94279.	12959.	1691.5	5726.9						

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Sample Name: Sicont										Zoom Out
Acquired: 5/30/2014 20:29:12										Type: Unk
Method: Accutest1(v93)										Mode: CONC
User: admin										Corr. Factor: 1.000000
Custom ID1:										Custom ID2:
Custom ID3:										
Comment:										
Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280	
Avg	.0004	.0000	.0001	.0000	-0.001	-0.011	-0.015	-0.003	-0.003	
Stddev	.0001	.0001	.0000	.0003	.0002	.0000	.0000	.0001	.0002	
%RSD	23.30	391.3	16.07	1392.	143.9	.4123	.2295	35.44	64.00	
#1	.0004	.0000	.0001	-.0002	.0000	-.0011	-.0015	-.0004	-.0002	
#2	.0005	.0001	.0001	.0002	-.0002	-.0011	-.0015	-.0002	-.0005	
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179	
Avg	.0004	-0.002	-0.005	-0.001	.0005	.0050	.0006	.0028	.0233	
Stddev	.0001	.0002	.0000	.0028	.0010	.0001	.0008	.0003	.0003	
%RSD	25.45	120.0	4.378	2277.	200.5	2.708	140.0	11.34	1.239	
#1	.0004	.0000	-.0005	-.0021	-.0002	.0051	.0012	.0025	.0235	
#2	.0003	-.0003	-.0005	.0018	.0012	.0049	.0000	.0030	.0231	
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sr1899	
Avg	.0032	.0048	.0197	-0.081	.0046	.0007	-0.003	10.21	.0000	
Stddev	.0035	.0084	.0327	.0020	.0003	.0003	.0009	.04	.000	
%RSD	112.5	174.5	165.9	24.90	5.723	37.61	298.6	.3670	1866.	
#1	.0057	-.0011	-.0034	-.0067	.0044	.0009	-.0009	10.18	.0003	
#2	.0006	.0107	.0429	-.0095	.0048	.0005	.0003	10.24	-.0003	
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707			
Avg	.0002	.0002	.0098	.0113	.0013	-0.017	.0012			
Stddev	.0000	.0003	.0006	.0011	.0018	.0007	.0003			
%RSD	.7945	184.6	6.181	10.19	141.2	38.86	25.22			
#1	.0002	.0003	.0094	.0121	.0000	-.0022	.0014			
#2	.0002	.0000	.0102	.0105	.0026	-.0012	.0010			
Int. Std.	Y_3600	Y_3710	Y_2243	In2306						
Avg	93714.	13026.	1697.9	5743.5						
Stddev	184.	5.	5.3	5.0						
%RSD	.19601	.03536	.31439	.08669						
#1	93844.	13023.	1701.7	5747.0						
#2	93584.	13030.	1694.1	5740.0						

Zoom In
Zoom Out

Sample Name:	ccv	Acquired:	5/30/2014 20:43:00	Type:	QC				
Method:	Accutest1(v93)	Mode:	CONC	Corr. Factor:	1.000000				
User:	admin	Custom ID1:		Custom ID2:					
Comment:	4			Custom ID3:					
Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.973	2.020	1.901	1.921	1.977	1.922	2.065	1.985	2.445
Stddev	.000	.000	.000	.003	.001	.008	.007	.002	.0011
%RSD	.0118	.0104	.0223	.1502	.0337	.4394	.3442	.0866	.4685
#1	1.973	2.020	1.902	1.919	1.977	1.928	2.070	1.984	2.454
#2	1.973	2.020	1.901	1.923	1.976	1.916	2.060	1.987	2.437
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									
Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.017	1.999	1.917	1.973	2.021	1.907	1.896	40.40	39.34
Stddev	.008	.002	.000	.006	.002	.001	.004	.04	.05
%RSD	.3841	.0859	.0077	.3146	.0787	.0396	.1914	.0984	.1158
#1	2.022	1.998	1.917	1.969	2.020	1.908	1.899	40.37	39.31
#2	2.011	2.000	1.917	1.977	2.022	1.907	1.894	40.43	39.38
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sr1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	39.93	40.41	40.87	41.18	1.897	1.978	1.911	4.784	1.966
Stddev	.02	.02	.05	.00	.004	.000	.006	.010	.003
%RSD	.0538	.0617	.1219	.0058	.2036	.0113	.3024	.2078	.1295
#1	39.94	40.43	40.84	41.18	1.899	1.977	1.915	4.792	1.964
#2	39.91	40.39	40.91	41.18	1.894	1.978	1.907	4.777	1.968
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

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Sample Name: ccv Acquired: 5/30/2014 20:43:00 Type: QC							
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000							
User: admin Custom ID1: Custom ID2: Custom ID3:							
Comment: 4							
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.991	1.993	1.897	1.988	1.931	1.884	2.004
Stddev	.000	.006	.014	.000	.002	.006	.002
%RSD	.0150	.3057	.7495	.0058	.0832	.3062	.1106
#1	1.991	1.997	1.887	1.988	1.932	1.889	2.002
#2	1.991	1.989	1.907	1.989	1.930	1.880	2.005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							
Int. Std.	Y_3600	Y_3710	Y_2243	In2306			
Units	Cts/S	Cts/S	Cts/S	Cts/S			
Avg	89670.	12832.	1639.8	5292.7			
Stddev	225.	38.	2.2	3.4			
%RSD	.25040	.29591	.13551	.06425			
#1	89511.	12859.	1638.2	5295.1			
#2	89829.	12805.	1641.4	5290.3			

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Sample Name: ccb Acquired: 5/30/2014 20:49:04 Type: QC							
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000							
User: admin Custom ID1: Custom ID2: Custom ID3:							
Comment:							
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007	.0009	F .0223	F .0016	-.0005	.0004	.0018
Stddev	.0000	.0001	.0014	.0000	.0013	.0009	.0004
%RSD	.9295	10.36	6.144	1.827	245.5	228.3	23.88
#1	.0007	.0008	.0233	.0015	.0004	-.0002	.0021
#2	.0007	.0010	.0214	.0016	-.0015	.0010	.0015
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			.0123	.0010			
Low Limit			-.0123	-.0010			
Int. Std.	Y_3600	Y_3710	Y_2243	In2306			
Units	Cts/S	Cts/S	Cts/S	Cts/S			
Avg	94153.	12961.	1697.9	5745.8			
Stddev	46.	99.	2.2	7.0			
%RSD	.04879	.76116	.13025	.12104			
#1	94120.	12891.	1699.5	5750.8			
#2	94185.	13031.	1696.3	5740.9			

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Sample Name: ccb Acquired: 5/30/2014 20:49:04 Type: QC											
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000											
User: admin Custom ID1: Custom ID2: Custom ID3:											
Comment:											
Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280		
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm		
Avg	.0011	.0006	F .0007	.0010	.0006	-.0007	.0006	.0005	-.0003		
Stddev	.0002	.0000	.0001	.0000	.0001	.0000	.0000	.0001	.0002		
%RSD	13.69	4.405	11.63	2.687	22.96	7.117	3.815	23.93	73.04		
#1	.0010	.0006	.0007	.0010	.0007	-.0007	.0007	.0004	-.0001		
#2	.0012	.0006	.0006	.0010	.0005	-.0007	.0006	.0006	-.0004		
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass		
High Limit			.0006								
Low Limit			-.0006								
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179		
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm		
Avg	.0007	-.0006	.0003	-.0001	.0007	-.0005	.0010	.0202	-.0006		
Stddev	.0001	.0003	.0006	.0001	.0004	.0007	.0004	.0089	.0005		
%RSD	9.167	49.82	201.3	85.38	53.16	135.0	46.21	43.89	81.35		
#1	.0008	-.0009	.0007	-.0002	.0010	.0000	.0006	.0265	-.0010		
#2	.0007	-.0004	-.0001	.0000	.0005	-.0010	.0013	.0139	-.0003		
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass		
High Limit											
Low Limit											
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899		
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm		
Avg	F .0130	.0279	.0214	-.0018	.0019	F .0027	.0006	.0072	.0006		
Stddev	.0005	.0157	.0011	.0085	.0003	.0004	.0005	.0001	.0004		
%RSD	3.538	56.20	4.979	463.8	14.60	13.49	75.48	.9586	59.89		
#1	.0133	.0389	.0221	.0042	.0021	.0030	.0003	.0071	.0009		
#2	.0126	.0168	.0206	-.0079	.0017	.0025	.0010	.0072	.0004		
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass		
High Limit	.0100					.0020					
Low Limit	-.0100					-.0020					

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Sample Name: mp79771-b1 Acquired: 5/30/2014 20:55:23 Type: Unk											
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000											
User: admin Custom ID1: Custom ID2: Custom ID3:											
Comment: soil 6th multi											
Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280		
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm		
Avg	3.961	.1034	.0956	.9530	.4080	.4751	1.060	.9929	.1066		
Stddev	.005	.0000	.0003	.0003	.0008	.0006	.002	.0009	.0000		
%RSD	.1186	.0284	.3314	.0304	.1985	.1238	.1493	.0867	.0199		
#1	3.958	.1034	.0953	.9528	.4075	.4755	1.061	.9935	.1066		
#2	3.964	.1034	.0958	.9532	.4086	.4747	1.058	.9923	.1066		
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179		
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm		
Avg	.9795	1.020	3.823	4.046	.9857	3.884	.9200	52.63	12.12		
Stddev	.0025	.000	.005	.014	.0012	.006	.0029	.04	.01		
%RSD	.2598	.0136	.1392	.3364	.1219	.1534	.3152	.0751	.0960		
#1	.9813	1.020	3.819	4.036	.9866	3.880	.9179	52.60	12.11		
#2	.9777	1.020	3.827	4.056	.9849	3.888	.9220	52.65	12.12		
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899		
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm		
Avg	51.34	12.47	12.52	12.37	-.0012	.0007	-.0020	.0393	.0133		
Stddev	.02	.05	.01	.01	.0011	.0000	.0000	.0000	.0004		
%RSD	.0470	.4273	.1175	.1190	95.81	3.466	1.492	.0654	2.747		
#1	51.32	12.44	12.53	12.36	-.0004	.0006	-.0020	.0393	.0131		
#2	51.36	12.51	12.51	12.38	-.0020	.0007	-.0019	.0393	.0136		
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707				
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm				
Avg	.0004	.0041	.0236	.0062	.0033	-.0009	.0012				
Stddev	.0000	.0002	.0002	.0003	.0001	.0006	.0008				
%RSD	6.278	5.791	.9404	4.576	3.564	61.92	67.31				
#1	.0004	.0040	.0234	.0064	.0034	-.0005	.0018				
#2	.0004	.0043	.0237	.0060	.0032	-.0013	.0006				
Int. Std.	Y_3600	Y_3710	Y_2243	In2306							
Units	Cts/S	Cts/S	Cts/S	Cts/S							
Avg	92655.	13230.	1682.5	5571.2							
Stddev	38.	1.	.6	4.6							
%RSD	.04098	.00884	.03780	.08296							
#1	92628.	13229.	1683.0	5568.0							
#2	92682.	13231.	1682.1	5574.5							

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Sample Name: jb67728-1a										Acquired: 5/30/2014 21:26:11		Type: Unk			
Method: Accutest1(v93)										Mode: CONC		Corr. Factor: 1.000000			
User: admin										Custom ID1:		Custom ID2:		Custom ID3:	
Comment: soil 6th multi															
Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280						
Avg	.4679	.0049	.0024	.0519	2.912	2.482	1.515	.1714	.0018						
Stddev	.0010	.0000	.0000	.0004	.002	.0006	.001	.0005	.0002						
%RSD	.2112	.0697	.3300	.7466	.0833	.2264	.0699	.3192	9.959						
#1	.4672	.0049	.0024	.0516	2.910	2.486	1.514	.1710	.0017						
#2	.4686	.0049	.0024	.0522	2.914	2.478	1.516	.1718	.0019						
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179						
Avg	.2152	1.009	.0400	.0046	1.456	.0067	.0031	66.12	51.54						
Stddev	.0008	.002	.0006	.0011	.001	.0004	.0007	.15	.28						
%RSD	.3804	.1841	1.492	22.60	.0806	5.274	21.93	.2213	.5434						
#1	.2146	1.010	.0404	.0054	1.456	.0064	.0026	66.23	51.74						
#2	.2158	1.007	.0395	.0039	1.455	.0069	.0036	66.02	51.35						
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899						
Avg	113.8	25.69	9.009	1.480	.0263	-.0009	-.0139	2.104	.0596						
Stddev	.4	.13	.003	.004	.0004	.0002	.0001	.008	.0002						
%RSD	.3700	.5055	.0332	.2820	1.566	16.90	.3802	.3721	.2666						
#1	114.1	25.78	9.007	1.483	.0266	-.0010	-.0140	2.099	.0595						
#2	113.5	25.60	9.011	1.477	.0260	-.0008	-.0139	2.110	.0598						
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707								
Avg	.1921	3.436	.0141	.0357	1.084	-.0012	.1670								
Stddev	.0004	.000	.0010	.0001	.001	.0007	.0009								
%RSD	.1829	.0024	6.913	.3734	.0690	58.74	.5652								
#1	.1923	3.436	.0134	.0358	1.084	-.0007	.1677								
#2	.1918	3.436	.0148	.0356	1.083	-.0016	.1664								
Int. Std.	Y_3600	Y_3710	Y_2243	In2306											
Avg	97367.	13963.	1739.3	5481.5											
Stddev	29.	121.	2.1	2.6											
%RSD	.02931	.86973	.11985	.04738											
#1	97347.	13877.	1740.8	5483.3											
#2	97388.	14049.	1737.9	5479.7											
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Sample Name: jb67728-3a										Acquired: 5/30/2014 21:32:20		Type: Unk	
Method: Accutest1(v93)										Mode: CONC		Corr. Factor: 1.000000	
User: admin			Custom ID1:			Custom ID2:			Custom ID3:				
Comment: soil 6th multi													
Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280				
Avg	.4172	.0052	.0007	.0471	.1748	.1030	1.480	.0932	.0003				
Stddev	.0001	.0000	.0001	.0011	.0001	.0005	.001	.0008	.0002				
%RSD	.0249	.8199	11.15	2.248	.0364	.4881	.0933	.9030	60.83				
#1	.4173	.0052	.0007	.0463	.1748	.1034	1.479	.0926	.0002				
#2	.4171	.0052	.0008	.0478	.1749	.1027	1.481	.0938	.0005				
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179				
Avg	.2275	.6185	.0335	.0041	.4477	.0034	.0021	104.3	17.71				
Stddev	.0000	.0033	.0001	.0024	.0020	.0014	.0004	.0	.07				
%RSD	.0213	.5334	.2644	58.82	.4518	42.14	17.25	.0336	.4003				
#1	.2276	.6161	.0334	.0024	.4463	.0044	.0019	104.3	17.76				
#2	.2275	.6208	.0335	.0057	.4492	.0024	.0024	104.4	17.66				
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899				
Avg	133.3	21.09	7.926	.6830	.0354	-.0031	-.0158	2.256	.0230				
Stddev	.3	.13	.027	.0038	.0001	.0002	.0001	.032	.0019				
%RSD	.2011	.6312	.3371	.5526	.2221	5.426	.6468	1.428	8.450				
#1	133.5	21.18	7.945	.6857	.0355	-.0030	-.0157	2.278	.0243				
#2	133.1	20.99	7.907	.6804	.0353	-.0032	-.0159	2.233	.0216				
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707						
Avg	.1122	2.856	.0126	.0466	1.167	-.0079	.1696						
Stddev	.0001	.002	.0013	.0002	.003	.0003	.0014						
%RSD	.0803	.0740	10.06	.4763	.2681	4.316	.8332						
#1	.1121	2.855	.0135	.0467	1.165	-.0077	.1686						
#2	.1122	2.858	.0117	.0464	1.169	-.0081	.1706						
Int. Std.	Y_3600	Y_3710	Y_2243	In2306									
Avg	98133.	14209.	1772.8	5563.3									
Stddev	32.	99.	11.6	32.0									
%RSD	.03308	.69990	.65623	.57516									
#1	98156.	14139.	1781.1	5585.9									
#2	98110.	14280.	1764.6	5540.7									
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Sample Name: jb67728-4a										Acquired: 5/30/2014 21:38:29		Type: Unk			
Method: Accutest1(v93)										Mode: CONC		Corr. Factor: 1.000000			
User: admin										Custom ID1:		Custom ID2:		Custom ID3:	
Comment: soil 6th multi															
Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280						
Avg	.6382	.0059	.0025	.0548	.2215	.2331	2.856	.1146	.0002						
Stddev	.0010	.0000	.0002	.0002	.0002	.0006	.000	.0001	.0006						
%RSD	.1504	.6708	6.838	.3081	.0818	.2510	.0152	.0772	338.3						
#1	.6375	.0059	.0024	.0546	.2214	.2335	2.855	.1147	-.0002						
#2	.6389	.0059	.0026	.0549	.2216	.2327	2.856	.1145	.0006						
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179						
Avg	.2516	1.460	.0534	.0034	.9647	.0044	.0035	93.82	40.80						
Stddev	.0003	.002	.0005	.0008	.0043	.0001	.0013	.04	.01						
%RSD	.1277	.1401	.9858	23.71	.4502	1.908	36.56	.0473	.0349						
#1	.2514	1.459	.0531	.0028	.9678	.0045	.0044	93.85	40.79						
#2	.2518	1.462	.0538	.0039	.9616	.0044	.0026	93.79	40.81						
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899						
Avg	177.7	20.93	9.805	1.031	.0341	-.0025	-.0189	1.933	.0393						
Stddev	.3	.01	.004	.007	.0003	.0000	.0006	.005	.0006						
%RSD	.1916	.0304	.0416	.6449	.9480	.1824	3.216	.2553	1.573						
#1	177.5	20.93	9.802	1.027	.0339	-.0025	-.0193	1.936	.0397						
#2	178.0	20.92	9.808	1.036	.0343	-.0025	-.0184	1.929	.0388						
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707								
Avg	.2446	3.561	.0180	.0731	10.22	-.0075	.1163								
Stddev	.0007	.002	.0011	.0003	.03	.0007	.0002								
%RSD	.2747	.0524	6.085	.4478	.2991	9.940	.1930								
#1	.2441	3.559	.0172	.0734	10.20	-.0080	.1162								
#2	.2451	3.562	.0188	.0729	10.24	-.0069	.1165								
Int. Std.	Y_3600	Y_3710	Y_2243	In2306											
Avg	96773.	14095.	1748.1	5510.6											
Stddev	33.	14.	4.3	5.1											
%RSD	.03382	.10001	.24426	.09237											
#1	96796.	14085.	1751.1	5514.2											
#2	96749.	14105.	1745.1	5507.0											
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Sample Name: jb67728-6a Acquired: 5/30/2014 22:03:11 Type: Unk
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: soil 6th multi

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	1.835	.0059	.0048	.0566	.2288	.3521	2.685	.1219	.0003
Stddev	.005	.0001	.0002	.0004	.0004	.0005	.000	.0008	.0004
%RSD	.2508	1.714	4.044	.6714	.1631	.1418	.0125	.6152	140.7
#1	1.838	.0060	.0047	.0568	.2285	.3518	2.685	.1225	.0005
#2	1.832	.0059	.0049	.0563	.2290	.3525	2.685	.1214	.0000
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.2536	2.173	.0629	.0017	1.564	.0086	.0032	98.30	65.51
Stddev	.0011	.004	.0005	.0012	.003	.0003	.0006	.25	.08
%RSD	.4157	.1752	.7313	75.19	.2200	3.238	19.06	.2535	.1227
#1	.2543	2.171	.0632	.0025	1.562	.0088	.0037	98.48	65.57
#2	.2528	2.176	.0626	.0008	1.567	.0084	.0028	98.13	65.45
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	185.0	22.42	10.08	1.393	.0332	-.0014	-.0191	1.851	.0494
Stddev	.0	.06	.01	.009	.0004	.0002	.0011	.012	.0003
%RSD	.0245	.2821	.1159	.6651	1.326	15.46	5.870	.6342	.6794
#1	185.1	22.46	10.07	1.399	.0329	-.0013	-.0199	1.859	.0492
#2	185.0	22.37	10.08	1.386	.0335	-.0016	-.0183	1.843	.0496
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.3766	3.652	.0282	.0743	11.89	-.0061	.1272		
Stddev	.0004	.004	.0005	.0000	.00	.0005	.0005		
%RSD	.0952	.1142	1.599	.0569	.0276	8.972	.4174		
#1	.3769	3.649	.0279	.0743	11.89	-.0065	.1276		
#2	.3764	3.655	.0285	.0742	11.89	-.0057	.1269		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	96333.	14022.	1741.0	5468.6					
Stddev	20.	8.	.3	1.7					
%RSD	.02092	.05442	.01761	.03030					
#1	96318.	14027.	1741.2	5469.8					
#2	96347.	14016.	1740.8	5467.5					

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Sample Name: jb67728-8a Acquired: 5/30/2014 22:15:27 Type: Unk
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: soil 6th multi

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	1.061	.0050	.0029	.0456	.2061	.2677	3.009	.1194	.0027
Stddev	.001	.0000	.0001	.0002	.0004	.0001	.004	.0007	.0001
%RSD	.0562	.1339	4.292	.3953	.2129	.0467	.1468	.6026	3.566
#1	1.061	.0050	.0028	.0458	.2064	.2676	3.012	.1199	.0028
#2	1.061	.0050	.0030	.0455	.2057	.2678	3.006	.1189	.0026
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.2194	3.539	.1064	-.0003	2.662	.0202	.0064	90.26	168.8
Stddev	.0000	.001	.0002	.0043	.003	.0016	.0010	.14	.1
%RSD	.0096	.0314	.2098	1521.	.1185	7.912	15.01	.1520	.0352
#1	.2194	3.540	.1066	.0028	2.664	.0213	.0071	90.16	168.8
#2	.2194	3.538	.1063	-.0034	2.660	.0191	.0058	90.35	168.7
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	158.6	21.71	8.346	1.912	.0411	.0059	-.0166	2.325	.9417
Stddev	.0	.05	.008	.006	.0001	.0001	.0008	.025	.0016
%RSD	.0130	.2482	.0913	.3080	.2604	2.099	5.011	1.080	.1680
#1	158.6	21.74	8.340	1.908	.0412	.0060	-.0172	2.343	.9429
#2	158.6	21.67	8.351	1.917	.0411	.0058	-.0160	2.307	.9406
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.3132	3.237	.0285	.0279	13.17	-.0028	.2358		
Stddev	.0005	.003	.0019	.0001	.01	.0000	.0000		
%RSD	.1499	.0950	6.730	.3560	.1063	.6914	.0053		
#1	.3135	3.239	.0299	.0279	13.18	-.0028	.2358		
#2	.3129	3.235	.0272	.0280	13.16	-.0028	.2358		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	92422.	13710.	1771.7	5267.6					
Stddev	77.	17.	1.5	.8					
%RSD	.08367	.12041	.08792	.01526					
#1	92368.	13699.	1672.8	5267.6					
#2	92477.	13722.	1670.7	5266.5					

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Sample Name: jb67728-7a Acquired: 5/30/2014 22:09:19 Type: Unk
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: soil 6th multi

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	3.615	.0059	.0033	.0580	.1904	.9710	2.013	.1376	.0047
Stddev	.006	.0000	.0000	.0002	.0006	.0011	.001	.0004	.0003
%RSD	.1692	.0855	.2328	.3272	.3091	.1128	.0370	.2961	5.357
#1	3.620	.0058	.0033	.0581	.1900	.9702	2.013	.1373	.0046
#2	3.611	.0059	.0033	.0579	.1909	.9717	2.014	.1379	.0049
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.2187	2.770	.1166	.0027	6.243	.0214	.0079	66.92	90.67
Stddev	.0003	.005	.0000	.0014	.001	.0019	.0003	.32	.05
%RSD	.1212	.1980	.0134	51.05	.0152	8.780	4.240	.4806	.0566
#1	.2185	2.766	.1167	.0017	6.244	.0201	.0082	67.14	90.63
#2	.2189	2.774	.1166	.0036	6.242	.0227	.0077	66.69	90.70
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	128.5	5.685	6.902	3.040	.0305	.0278	-.0127	2.443	1.167
Stddev	.0	.025	.038	.027	.0003	.0001	.0005	.003	.001
%RSD	.0209	.4376	.5523	.8816	1.126	.3817	4.033	.1392	.0525
#1	128.5	5.668	6.929	3.059	.0302	.0277	-.0124	2.441	1.167
#2	128.5	5.703	6.876	3.021	.0307	.0278	-.0131	2.446	1.168
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.5023	.9902	.0250	.0315	12.24	-.0002	.0999		
Stddev	.0002	.0032	.0004	.0003	.02	.0006	.0011		
%RSD	.0320	.3265	1.479	.9454	.2002	.278.2	1.062		
#1	.5024	.9880	.0247	.0317	12.22	.0002	.0991		
#2	.5022	.9925	.0253	.0313	12.26	-.0007	.1006		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	92187.	13387.	1665.2	5407.1					
Stddev	134.	32.	5.1	3.5					
%RSD	.14562	.24196	.30843	.06492					
#1	92282.	13364.	1668.8	5409.6					
#2	92092.	13410.	1661.6	5404.6					

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Sample Name: jb67728-10a Acquired: 5/30/2014 22:21:34 Type: Unk
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: soil 6th multi

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.2918	.0033	.0012	.0344	.1867	.0786	4.835	.0724	.0010
Stddev	.0001	.0001	.0000	.0002	.0002	.0001	.013	.0001	.0003
%RSD	.0334	3.963	1.495	.7026	.0812	.1649	.2769	.1980	30.17
#1	.2918	.0032	.0012	.0345	.1868	.0786	4.826	.0725	.0012
#2	.2917	.0034	.0012	.0342	.1866	.0787	4.845	.0723	.0008
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.1637	1.308	.0344	.0044	.4177	.0047	.0029	48.33	28.07
Stddev	.0005	.006	.0006	.0006	.0010	.0008	.0000	.02	.04
%RSD	.2833	.4308	1.862	12.55	.2474	18.04	1.246	.0335	.1601
#1	.1634	1.312	.0339	.0048	.4185	.0041	.0028	48.32	28.04
#2	.1640	1.304	.0348	.0040	.4170	.0053	.0029	48.34	28.10
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	109.8	17.42	7.328	.9432	.0211	-.0027	-.0109	1.947	.0827
Stddev	.2	.01	.060	.0075	.0005	.0000	.0002	.006	.0010
%RSD	.1420	.0657	.8251	.7942	2.580	.7857	1.420	.3200	1.171
#1	109.7	17.43	7.285	.9485	.0207	-.0027	-.0108	1.951	.0834
#2	109.9	17.42	7.371	.9379	.0215	-.0027	-.0110	1.942	.0820
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.1471	2.975	.0145	.0323	2.297	-.0061	.0974		
Stddev	.0002	.007	.0001	.0003	.019	.0007	.0002		
%RSD	.1134	.2480	.7802	.8475	.8348	11.58	.2133		
#1	.1472	2.970	.0146	.0321	2.310	-.0056	.0972		
#2	.1470	2.980	.0145	.0325	2.283	-.0066	.0975		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	94748.	13757.	1716.5	5568.3					
Stddev	195.	54.	1.9	8.0					
%RSD	.20630	.39094	.10952	.14309					
#1	94886.	13795.	1715.1	5562.7					
#2	94609.	13719.	1717.8	5573.9					

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Sample Name: jb67728-18a Acquired: 5/30/2014 22:52:23 Type: Unk									
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000									
User: admin Custom ID1: Custom ID2: Custom ID3:									
Comment: soil 6th multi									
Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.9843	.0035	.0023	.0546	.1055	.8424	.8957	.1401	.0023
Stddev	.0004	.0000	.0003	.0003	.0005	.0004	.0005	.0011	.0005
%RSD	.0446	.0393	12.20	.4808	.4695	.0421	.0565	.7615	20.38
#1	.9846	.0035	.0025	.0544	.1052	.8422	.8961	.1393	.0020
#2	.9840	.0034	.0021	.0548	.1059	.8427	.8953	.1408	.0027
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.1850	1.222	.0728	.0009	1.808	.0133	.0041	41.68	20.81
Stddev	.0005	.004	.0017	.0016	.001	.0040	.0004	.07	.01
%RSD	.2549	.2864	2.314	176.1	.0281	30.10	9.927	.1800	.0602
#1	.1847	1.219	.0716	-.0002	1.808	.0105	.0044	41.63	20.81
#2	.1853	1.224	.0740	.0020	1.807	.0161	.0038	41.74	20.80
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	69.53	3.389	5.018	2.522	.0230	.0277	-.0104	2.560	.0954
Stddev	.02	.017	.009	.013	.0002	.0002	.0000	.055	.0001
%RSD	.0318	.0583	.1784	.5118	.8562	.8700	.2029	2.146	.1357
#1	69.51	3.402	5.024	2.513	.0229	.0275	-.0104	2.598	.0953
#2	69.54	3.377	5.011	2.531	.0232	.0279	-.0105	2.521	.0955
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.3426	.8628	.0107	.0144	3.967	-.0052	.0902		
Stddev	.0000	.0004	.0000	.0015	.029	.0001	.0004		
%RSD	.0111	.0455	.1806	10.40	.7266	1.938	.4389		
#1	.3426	.8625	.0107	.0155	3.947	-.0051	.0904		
#2	.3426	.8631	.0107	.0133	3.988	-.0052	.0899		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	96582.	14025.	1716.0	5602.8					
Stddev	137.	5.	2.4	8.0					
%RSD	.14213	.03587	.13975	.14198					
#1	96679.	14022.	1717.7	5608.5					
#2	96485.	14029.	1714.3	5597.2					

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Sample Name: ccv Acquired: 5/30/2014 22:58:34 Type: QC									
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000									
User: admin Custom ID1: Custom ID2: Custom ID3:									
Comment: 6									
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm		
Avg	2.020	1.955	1.913	1.977	1.966	1.924	2.004		
Stddev	.001	.004	.020	.001	.006	.004	.001		
%RSD	.0565	.1897	1.030	.0678	.2842	.2185	.0673		
#1	2.019	1.952	1.899	1.976	1.963	1.921	2.005		
#2	2.020	1.957	1.927	1.978	1.970	1.927	2.003		
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass		
Value									
Range									
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Units	Cts/S	Cts/S	Cts/S	Cts/S					
Avg	91665.	13372.	1607.3	5257.9					
Stddev	159.	57.	2.6	12.7					
%RSD	.17332	.42269	.15912	.24229					
#1	91777.	13412.	1609.1	5266.9					
#2	91553.	13332.	1605.5	5248.9					

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Sample Name: ccv Acquired: 5/30/2014 22:58:34 Type: QC									
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000									
User: admin Custom ID1: Custom ID2: Custom ID3:									
Comment: 6									
Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.964	1.971	1.929	1.936	1.978	1.875	1.998	1.977	2.408
Stddev	.004	.004	.003	.005	.002	.007	.003	.006	.0008
%RSD	.2034	.2276	.1575	.2855	.0888	.3975	.1562	.2934	.3159
#1	1.961	1.968	1.927	1.933	1.979	1.869	1.995	1.973	.2413
#2	1.967	1.974	1.931	1.940	1.977	1.880	2.000	1.982	.2403
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.924	1.976	1.957	2.032	1.981	1.958	1.927	38.46	39.57
Stddev	.010	.005	.001	.006	.008	.008	.006	.07	.03
%RSD	.5387	.2596	.0298	.3119	.4221	.3877	.3027	.1864	.0718
#1	1.916	1.972	1.957	2.028	1.975	1.953	1.923	38.41	39.55
#2	1.931	1.980	1.956	2.037	1.987	1.963	1.931	38.51	39.59
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	39.71	39.61	39.93	39.17	1.950	1.974	1.889	4.863	1.991
Stddev	.07	.05	.13	.09	.003	.008	.005	.005	.004
%RSD	.1723	.1257	.3155	.2224	.1271	.4156	.2699	.1125	.1990
#1	39.66	39.58	39.84	39.11	1.948	1.968	1.885	4.859	1.989
#2	39.76	39.65	40.02	39.23	1.952	1.980	1.892	4.867	1.994
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

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Sample Name: ccb Acquired: 5/30/2014 23:04:37 Type: QC									
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000									
User: admin Custom ID1: Custom ID2: Custom ID3:									
Comment:									
Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011	.0009	F_ .0010	.0011	.0010	.0004	.0011	F_ .0011	.0003
Stddev	.0001	.0001	.0001	.0001	.0004	.0002	.0000	.0002	.0002
%RSD	7.729	10.45	13.82	13.29	42.34	43.96	3.783	15.94	59.80
#1	.0012	.0008	.0011	.0012	.0007	.0002	.0011	.0010	-.0004
#2	.0010	.0010	.0009	.0010	.0013	.0005	.0010	.0012	-.0002
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit			.0006					.0010	
Low Limit			-.0006					-.0010	
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011	.0000	.0008	.0017	.0012	.0011	.0011	.0285	.0130
Stddev	.0001	.000	.0007	.0005	.0003	.0020	.0007	.0114	.0029
%RSD	8.152	318.7	82.29	31.22	24.26	177.3	62.02	39.98	21.87
#1	.0012	.0000	.0004	.0021	.0010	-.0003	.0006	.0205	.0110
#2	.0011	-.0001	.0013	.0013	.0014	.0025	.0015	.0366	.0151
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F_ .0242	.0194	.0424	.0056	.0030	F_ .0032	.0011	.0086	.0012
Stddev	.0014	.0026	.0083	.0089	.0000	.0005	.0006	.0001	.0000
%RSD	5.879	13.24	19.60	158.1	1.431	16.24	58.96	1.381	.7858
#1	.0252	.0176	.0366	.0119	.0030	.0036	.0006	.0087	.0012
#2	.0232	.0213	.0483	.0007	.0030	.0028	.0015	.0085	.0012
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit	.0100					.0020			
Low Limit	-.0100					-.0020			

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Sample Name: ccb		Acquired: 5/30/2014 23:04:37			Type: QC		Zoom Out
Method: Accutest1(v93)		Mode: CONC		Corr. Factor: 1.000000			
User: admin		Custom ID1:	Custom ID2:	Custom ID3:			
Comment:							
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010	F .0014	F .0222	F .0020	.0017	.0006	F .0021
Stddev	.0000	.0001	.0019	.0000	.0012	.0004	.0005
%RSD	2.779	8.047	8.376	1.635	75.13	64.45	24.55
#1	.0009	.0014	.0236	.0020	.0025	.0009	.0017
#2	.0010	.0013	.0209	.0019	.0008	.0003	.0025
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail
High Limit		.0010	.0123	.0010			.0020
Low Limit		-.0010	-.0123	-.0010			-.0020

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Sample Name: jb67728-20a			Acquired: 5/30/2014 23:17:10			Type: Unk			Zoom Out
Method: Accutest1(v93)			Mode: CONC		Corr. Factor: 1.000000				
User: admin		Custom ID1:		Custom ID2:		Custom ID3:			
Comment: soil 6th multi									
Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.3375	.0050	.0005	.0564	.1745	.0737	6.832	.1111	.0026
Stddev	.0001	.0000	.0001	.0002	.0006	.0002	.003	.0010	.0002
%RSD	.0325	.2062	28.42	.2704	.3651	.3288	.0404	.8623	6.081
#1	.3374	.0050	.0006	.0562	.1741	.0736	6.830	.1104	.0027
#2	.3376	.0051	.0004	.0565	.1750	.0739	6.834	.1117	.0025
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.2538	.2912	.0315	.0073	.1507	.0038	.0017	93.46	11.55
Stddev	.0007	.0019	.0010	.0005	.0012	.0004	.0005	.08	.00
%RSD	.2623	.6529	3.039	7.352	.8042	9.738	31.04	.0819	.0029
#1	.2543	.2898	.0308	.0070	.1498	.0035	.0021	93.51	11.55
#2	.2533	.2925	.0321	.0077	.1515	.0040	.0014	93.40	11.55
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	135.5	33.95	8.877	1.040	.0286	-.0048	-.0179	2.006	0.0153
Stddev	.0	.16	.011	.005	.0007	.0002	.0000	.005	.0004
%RSD	.0359	.4599	.1230	.4587	2.560	3.443	1.227	.2652	2.884
#1	135.5	34.06	8.869	1.043	.0291	-.0046	-.0179	2.002	.0150
#2	135.4	33.84	8.885	1.037	.0281	-.0049	-.0179	2.009	.0157
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0664	4.749	.0191	.0438	1.299	-.0127	.0950		
Stddev	.0000	.004	.0004	.0000	.008	.0009	.0002		
%RSD	.0674	.0764	2.063	.0802	.6007	7.306	.2550		
#1	.0665	4.746	.0193	.0438	1.293	-.0120	.0952		
#2	.0664	4.751	.0188	.0438	1.304	-.0133	.0949		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	95634.	14184.	1678.5	5411.3					
Stddev	72.	38.	10.2	20.4					
%RSD	.07552	.26831	.60568	.37773					
#1	95583.	14158.	1685.7	5425.8					
#2	95685.	14211.	1671.3	5396.9					

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Sample Name: jb67728-19a			Acquired: 5/30/2014 23:10:57			Type: Unk			Zoom Out	
Method: Accutest1(v93)			Mode: CONC			Corr. Factor: 1.000000				
User: admin			Custom ID1:		Custom ID2:		Custom ID3:			
Comment: soil 6th multi										
Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280	
Avg	1.044	.0128	.0036	.1246	.3418	.3408	4.972	.2497	.0033	
Stddev	.002	.0000	.0001	.0010	.0015	.0015	.023	.0009	.0001	
%RSD	.1479	.1115	2.656	.8362	.4443	.4280	.4682	.3689	4.161	
#1	1.043	.0128	.0037	.1239	.3407	.3398	4.988	.2491	.0032	
#2	1.045	.0129	.0036	.1254	.3429	.3418	4.955	.2504	.0034	
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179	
Avg	.4878	3.545	.0890	-.0014	1.752	.0110	.0064	226.0	30.95	
Stddev	.0006	.018	.0013	.0022	.006	.0010	.0011	.3	.07	
%RSD	.1188	.5074	1.510	158.4	.3550	8.800	16.60	.1408	.2155	
#1	.4874	3.533	.0880	-.0030	1.748	.0117	.0057	225.8	30.90	
#2	.4882	3.558	.0899	.0002	1.756	.0104	.0072	226.2	30.99	
Elem	Fe2595	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899	
Avg	288.5	59.56	21.27	2.781	.0786	-.0030	-.0310	1.976	.0810	
Stddev	.8	.20	.04	.000	.0023	.0002	.0006	.016	.0013	
%RSD	.2785	.3383	.1875	.0075	2.881	8.022	1.928	.8151	1.609	
#1	288.0	59.42	21.24	2.781	.0770	-.0032	-.0314	1.964	.0801	
#2	289.1	59.70	21.30	2.781	.0802	-.0028	-.0306	1.987	.0820	
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707			
Avg	.2361	6.855	.0438	.0948	15.78	-.0167	.5050			
Stddev	.0005	.013	.0008	.0004	.11	.0006	.0008			
%RSD	.1974	.1907	1.935	.4568	.7152	3.426	.1609			
#1	.2358	6.846	.0443	.0945	15.70	-.0163	.5045			
#2	.2364	6.864	.0432	.0951	15.86	-.0171	.5056			
Int. Std.	Y_3600	Y_3710	Y_2243	In2306						
Avg	102170.	15492.	1773.5	5307.0						
Stddev	206.	67.	15.7	31.6						
%RSD	.20172	.43430	.88781	.59555						
#1	102320.	15539.	1784.7	5329.3						
#2	102030.	15444.	1762.4	5284.6						

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Sample Name: jb67728-21a				Acquired: 5/30/2014 23:23:26		Type: Unk		Zoom Out	
Method: Accutest1(v93)		Mode: CONC		Corr. Factor: 1.000000					
User: admin		Custom ID1:		Custom ID2:		Custom ID3:			
Comment: soil 6th multi									
Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.6232	.0081	.0007	.0703	.1809	.1156	2.044	.1429	.0021
Stddev	.0004	.0000	.0001	.0013	.0004	.0003	.014	.0019	.0004
%RSD	.0713	.4701	10.20	1.897	.2005	.2373	.6966	1.316	18.13
#1	.6229	.0080	.0007	.0713	.1811	.1158	2.054	.1442	.0024
#2	.6236	.0081	.0006	.0694	.1806	.1154	2.033	.1416	.0018
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.2836	.4190	.0500	-.0009	.2536	.0045	.0020	147.5	14.34
Stddev	.0014	.0046	.0008	.0021	.0038	.0011	.0007	.3	.06
%RSD	.4958	1.101	1.657	233.5	1.482	25.34	33.32	.2117	.3971
#1	.2846	.4222	.0506	-.0024	.2562	.0053	.0024	147.8	14.38
#2	.2827	.4157	.0494	.0006	.2509	.0037	.0015	147.3	14.30
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sr1899
Avg	176.3	34.16	10.84	1.796	.0549	-.0047	-.0196	1.968	.0195
Stddev	.5	.17	.00	.004	.0004	.0002	.0001	.002	.0002
%RSD	.2876	.5004	.0336	.2097	.7145	4.464	.6598	.0943	.7825
#1	176.6	34.28	10.84	1.793	.0552	-.0046	-.0195	1.969	.0194
#2	175.9	34.04	10.84	1.798	.0546	-.0049	-.0197	1.967	.0196
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.1394	3.927	.0212	.0369	8.627	-.0106	.1570		
Stddev	.0002	.020	.0000	.0002	.101	.0005	.0013		
%RSD	.1668	.5020	.0616	.4566	1.169	4.923	.8144		
#1	.1392	3.941	.0212	.0371	8.699	-.0110	.1561		
#2	.1396	3.913	.0212	.0368	8.556	-.0103	.1579		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	97893.	14855.	1723.6	5339.7					
Stddev	373.	114.	9.2	40.4					
%RSD	.38141	.76648	.53536	.76569					
#1	97629.	14774.	1717.1	5311.1					
#2	98157.	14935.	1730.1	5368.3					

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Sample Name: jb67667-2 2 Acquired: 5/30/2014 23:29:34 Type: Unk
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: soil 6th

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.7488	.0052	.0135	.0506	.1891	.9291	2.928	.1804	.0157
Stddev	.0018	.0000	.0001	.0006	.0002	.0023	.001	.0016	.0001
%RSD	.2344	.4125	.8971	1.098	.1040	.2508	.0428	.8990	.6512

#1	.7500	.0052	.0134	.0502	.1889	.9307	2.927	.1793	.0156
#2	.7475	.0052	.0136	.0510	.1892	.9274	2.929	.1816	.0157

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.1509	1.048	.0528	-.0299	.5815	.0361	.0056	74.21	973.4
Stddev	.0000	.015	.0013	.0005	.0047	.0028	.0018	.05	3.2
%RSD	.0249	1.452	2.545	1.837	.8145	7.663	31.82	.0641	.3335

#1	.1509	1.037	.0538	-.0295	.5782	.0381	.0069	74.18	975.7
#2	.1508	1.059	.0519	-.0302	.5849	.0341	.0043	74.24	971.1

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	119.1	185.9	19.60	4.499	.1845	.0091	-.0289	2.160	.0875
Stddev	.0	.3	.06	.003	.0038	.0000	.0001	.042	.0019
%RSD	.0102	.1658	.2811	.0681	2.060	.3315	.1762	1.933	2.224

#1	119.1	186.1	19.64	4.501	.1818	.0091	-.0290	2.131	.0861
#2	119.1	185.6	19.56	4.497	.1872	.0091	-.0289	2.190	.0888

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Avg	1.698	1.365	.0258	.0526	12.18	.0017	2384
Stddev	.005	.001	.0014	.0004	.21	.0012	.0005
%RSD	.2930	.0661	5.255	.8517	1.707	69.27	.2224

#1	1.701	1.366	.0267	.0529	12.03	.0009	.2388
#2	1.694	1.365	.0248	.0523	12.32	.0026	.2381

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	85274.	13764.	1485.5	4470.5
Stddev	52.	53.	23.0	43.6
%RSD	.06057	.38485	1.5500	.97566

#1	85238.	13801.	1501.7	4501.4
#2	85311.	13726.	1469.2	4439.7

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Sample Name: jb67695-1 Acquired: 5/30/2014 23:41:57 Type: Unk
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: soil 6th

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.3211	.0033	.0008	.0423	.1066	1.282	1.246	.0854	.0026
Stddev	.0009	.0000	.0001	.0000	.0004	.0005	.004	.0003	.0004
%RSD	.2902	1.034	8.582	.1179	.3528	.3636	.3180	.3573	14.47

#1	.3217	.0033	.0007	.0423	.1069	.1279	1.249	.0856	.0029
#2	.3204	.0033	.0008	.0423	.1063	.1285	1.243	.0852	.0023

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.1594	.2297	.0194	.0036	.0691	.0014	.0011	53.31	34.05
Stddev	.0002	.0004	.0011	.0003	.0007	.0013	.0010	.06	.00
%RSD	.0963	.1726	5.557	7.785	1.060	97.62	92.50	.1118	.0055

#1	.1593	.2300	.0187	.0038	.0686	.0004	.0004	53.35	34.05
#2	.1595	.2294	.0202	.0034	.0696	.0023	.0018	53.26	34.05

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	106.8	23.32	6.568	2.722	.3413	-.0015	-.0119	1.438	.0164
Stddev	.1	.03	.006	.007	.0019	.0001	.0008	.004	.0014
%RSD	.0668	.1435	.0976	.2616	.5680	5.312	6.497	.2576	8.584

#1	106.9	23.29	6.564	2.727	.3427	-.0015	-.0113	1.441	.0174
#2	106.8	23.34	6.573	2.717	.3400	-.0016	-.0124	1.435	.0154

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Avg	.1059	3.588	.0087	.0685	4.554	-.0057	.0745
Stddev	.0001	.007	.0007	.0003	.025	.0001	.0000
%RSD	.1138	.1853	8.362	.4090	.5525	1.821	.0122

#1	.1060	3.593	.0092	.0683	4.572	-.0056	.0745
#2	.1058	3.583	.0082	.0687	4.536	-.0058	.0745

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	94030.	14232.	1658.6	5359.1
Stddev	110.	6.	3.3	11.2
%RSD	.11733	.04308	.20187	.20853

#1	94108.	14237.	1656.3	5351.2
#2	93952.	14228.	1661.0	5367.0

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Sample Name: jb67670-1 Acquired: 5/30/2014 23:35:48 Type: Unk
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: soil 6th

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.6261	.0041	.0040	.0607	.1111	.4291	1.639	.1551	.0031
Stddev	.0034	.0001	.0001	.0009	.0002	.0025	.002	.0000	.0000
%RSD	.5446	1.246	2.127	1.403	.1512	.5855	.1229	.0241	.7952

#1	.6285	.0042	.0039	.0613	.1112	.4273	1.640	.1552	.0031
#2	.6237	.0041	.0040	.0601	.1109	.4309	1.637	.1551	.0031

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.1942	.8176	.0219	.0027	.4120	.0042	.0024	90.30	43.68
Stddev	.0005	.0030	.0009	.0026	.0012	.0034	.0002	.42	.06
%RSD	.2528	.3709	4.138	94.79	.2978	80.24	6.557	.4674	.1324

#1	.1938	.8198	.0225	.0046	.4129	.0018	.0025	90.60	43.72
#2	.1945	.8155	.0212	.0009	.4111	.0066	.0023	90.00	43.64

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	124.7	32.83	4.958	7.929	.0694	-.0023	-.0123	1.181	.0280
Stddev	.3	.10	.017	.022	.0008	.0000	.0004	.007	.0000
%RSD	.2468	.3005	.3510	.2799	1.119	1.386	2.966	.5772	.0872

#1	124.9	32.90	4.970	7.945	.0699	-.0023	-.0126	1.186	.0280
#2	124.5	32.76	4.946	7.913	.0688	-.0023	-.0121	1.177	.0281

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Avg	.2929	4.813	.0164	.0683	2.207	-.0066	.0580
Stddev	.0016	.002	.0002	.0000	.020	.0013	.0005
%RSD	.5447	.0385	1.350	.0122	.9148	19.03	.8723

#1	.2941	4.814	.0165	.0683	2.221	-.0057	.0576
#2	.2918	4.812	.0162	.0683	2.192	-.0075	.0583

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	91397.	13822.	1622.7	5282.5
Stddev	105.	9.	4.7	15.6
%RSD	.11442	.06200	.29144	.29532

#1	91471.	13829.	1619.4	5271.4
#2	91323.	13816.	1626.0	5293.5

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Sample Name: jb67706-1 Acquired: 5/30/2014 23:48:05 Type: Unk
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: soil 6th

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.8207	.0068	.0018	.0838	.0978	.1224	3.916	.1765	.0055
Stddev	.0002	.0000	.0001	.0002	.0001	.0007	.001	.0001	.0005
%RSD	.0200	.3098	6.375	.2283	.0698	.6011	.0290	.0747	9.908

#1	.8205	.0068	.0017	.0839	.0979	.1219	3.915	.1766	.0059
#2	.8208	.0068	.0019	.0837	.0978	.1229	3.916	.1764	.0051

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0923	1.194	.0396	.0011	.2595	.0055	.0041	76.39	13.65
Stddev	.0005	.004	.0004	.0001	.0001	.0000	.0001	.30	.05
%RSD	.5530	.3104	.9972	9.724	.0241	.0954	2.169	.3872	.3625

#1	.0919	1.197	.0393	.0012	.2595	.0055	.0041	76.18	13.68
#2	.0926	1.191	.0398	.0010	.2596	.0055	.0040	76.60	13.61

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	204.4	35.85	12.76	.8051	.0135	-.0082	-.0178	1.342	.0166
Stddev	.4	.13	.00	.0063	.0005	.0002	.0006	.007	.0010
%RSD	.2100	.3640	.0170	.7834	3.818	3.005	3.527	.5154	5.822

#1	204.7	35.94	12.76	.8006	.0131	-.0081	-.0183	1.338	.0159
#2	204.1	35.75	12.76	.8095	.0139	-.0084	-.0174	1.347	.0172

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Avg	.0846	1.099	.0187	.0574	.4049	-.0065	.2218
Stddev	.0003	.000	.0006	.0002	.0001	.0005	.0008
%RSD	.4054	.0382	3.309	.2900	.0238	7.809	.3750

#1	.0848	1.099	.0183	.0575	.4049	-.0068	.2224
#2	.0843	1.099	.0192	.0573	.4050	-.0061	.2212

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	93672.	14027.	1642.4	5432.4
Stddev	143.	7.	1.4	8.2
%RSD	.15244	.04852	.08657	.15102

#1	93773.	14022.	1643.4	5438.2
#2	93571.	14031.	1641.4	5426.6

Sample Name: jb67706-2 Acquired: 5/30/2014 23:54:16 Type: Unk
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: soil 6th

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.1735	.0022	.0002	.0294	.0375	.0404	1.433	.0700	.0020
Stddev	.0001	.0000	.0001	.0003	.0000	.0002	.000	.0006	.0001
%RSD	.0674	1.806	24.18	1.037	.0640	.4403	.0274	.9134	3.430
#1	.1736	.0022	.0002	.0296	.0375	.0405	1.433	.0696	.0021
#2	.1734	.0021	.0003	.0292	.0375	.0402	1.433	.0705	.0020
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0383	.2177	.0135	.0005	.0800	.0033	.0004	33.55	5.432
Stddev	.0001	.0005	.0002	.0013	.0000	.0001	.0005	.06	.012
%RSD	.2580	.2431	1.631	234.9	.0251	3.441	104.4	.1653	.2177
#1	.0382	.2173	.0133	.0004	.0800	.0032	.0001	33.51	5.424
#2	.0383	.2181	.0137	.0014	.0800	.0034	.0008	33.59	5.441
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	73.41	15.09	6.142	2233	.0044	.0031	.0077	1.096	.0129
Stddev	.02	.00	.012	.0026	.0007	.0000	.0002	.008	.0009
%RSD	.0242	.0180	.2016	1.165	15.82	2.193	2.098	.7610	6.631
#1	73.39	15.10	6.133	2252	.0039	.0031	.0076	1.090	.0123
#2	73.42	15.09	6.150	2215	.0049	.0031	.0078	1.101	.0135
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0262	.6606	.0081	.0344	.1020	.0061	.1093		
Stddev	.0001	.0004	.0007	.0001	.0010	.0000	.0002		
%RSD	.4489	.0579	8.434	.4169	1.008	2034	.0052		
#1	.0263	.6604	.0076	.0345	.1027	.0060	.1092		
#2	.0261	.6609	.0086	.0343	.1012	.0061	.1094		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	92399.	13741.	1629.1	5449.2					
Stddev	27.	68.	3.7	1.3					
%RSD	.02960	.49190	.22800	.02406					
#1	92419.	13788.	1631.7	5450.2					
#2	92380.	13693.	1626.5	5448.3					

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Zoom In

Zoom Out

Sample Name: jb67706-3 Acquired: 5/31/2014 0:00:27 Type: Unk
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: soil 6th

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.5451	.0040	.0049	.0507	.0962	.1649	3.736	.1091	.0035
Stddev	.0010	.0001	.0001	.0001	.0005	.0003	.002	.0006	.0000
%RSD	.1919	1.330	1.614	.2393	.5236	.2100	.0616	.5758	1.338
#1	.5458	.0040	.0050	.0508	.0959	.1646	3.735	.1096	.0035
#2	.5444	.0039	.0049	.0506	.0966	.1651	3.738	.1087	.0035
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0775	2.504	.0672	.0029	.7314	.0043	.0016	63.72	38.92
Stddev	.0000	.010	.0002	.0025	.0037	.0006	.0005	.03	.09
%RSD	.0402	4.050	.3272	84.91	.5020	14.16	28.81	.0436	.2427
#1	.0775	2.511	.0673	.0047	.7340	.0048	.0013	63.74	38.86
#2	.0775	2.496	.0670	.0012	.7288	.0039	.0020	63.70	38.99
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	122.8	21.68	11.99	2.707	.0148	.0007	.0135	2.570	.0330
Stddev	.2	.03	.01	.006	.0005	.0002	.0001	.001	.0002
%RSD	.1811	.1246	.0738	.2205	3.702	24.10	.6750	.0297	.6509
#1	122.6	21.66	11.99	2.702	.0152	.0006	.0136	2.571	.0329
#2	122.9	21.70	11.98	2.711	.0144	.0008	.0135	2.570	.0332
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.2921	.8685	.0187	.0448	2.543	.0036	.1609		
Stddev	.0002	.0006	.0007	.0001	.006	.0004	.0001		
%RSD	.0537	.0680	3.750	.1479	.2564	9.820	.0435		
#1	.2922	.8681	.0182	.0449	2.538	.0039	.1609		
#2	.2920	.8690	.0192	.0448	2.548	.0034	.1608		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	94453.	14297.	1659.4	5333.8					
Stddev	179.	63.	3.3	7.8					
%RSD	.18907	.44334	.19711	.14674					
#1	94579.	14342.	1657.1	5328.2					
#2	94326.	14252.	1661.7	5339.3					

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Zoom In

Zoom Out

Sample Name: jb67706-4 Acquired: 5/31/2014 0:06:37 Type: Unk
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: soil 6th

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	1.449	.0037	.0021	.0397	.1366	.3398	1.698	.0853	.0048
Stddev	.002	.0000	.0002	.0001	.0006	.0009	.000	.0001	.0003
%RSD	.1016	.2314	8.453	.2118	.4030	.2603	.0135	.0855	5.326
#1	1.448	.0037	.0019	.0397	.1370	.3392	1.698	.0854	.0046
#2	1.450	.0037	.0022	.0398	.1362	.3404	1.698	.0853	.0050
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0830	2.008	.0364	.0014	2.501	.0067	.0028	61.36	39.87
Stddev	.0003	.000	.0001	.0021	.001	.0028	.0004	.20	.01
%RSD	.3706	.0063	.2897	152.0	.0487	41.86	14.06	.3230	.0251
#1	.0828	2.007	.0365	.0028	2.502	.0087	.0031	61.22	39.87
#2	.0833	2.008	.0363	.0001	2.501	.0047	.0026	61.50	39.88
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	113.7	17.43	10.35	5.185	.0155	.0033	.0125	2.618	.1007
Stddev	.0	.05	.03	.021	.0003	.0000	.000	.003	.0008
%RSD	.0174	.2875	.2692	.4152	1.915	.3162	.1976	.1195	.7885
#1	113.6	17.39	10.33	5.170	.0157	.0033	.0125	2.616	.1012
#2	113.7	17.47	10.37	5.200	.0153	.0033	.0125	2.620	.1001
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.3204	1.014	.0170	.0159	2.088	.0019	.1447		
Stddev	.0004	.001	.0007	.0004	.005	.0006	.0003		
%RSD	.1338	.0892	3.828	2.305	.2470	33.01	.2246		
#1	.3207	1.015	.0166	.0162	2.084	.0024	.1445		
#2	.3201	1.014	.0175	.0157	2.092	.0015	.1449		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	92300.	14039.	1620.4	5350.7					
Stddev	34.	47.	6.0	4.8					
%RSD	.03672	.33506	.36802	.09038					
#1	92276.	14072.	1624.6	5354.1					
#2	92324.	14005.	1616.2	5347.3					

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Zoom In

Zoom Out

Sample Name: ccv Acquired: 5/31/2014 0:12:48 Type: QC
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: 1

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.044	2.014	1.955	1.945	1.995	1.989	2.036	1.972	2.454
Stddev	.002	.005	.006	.007	.004	.000	.000	.007	.0006
%RSD	.1081	.2490	.3263	.3670	.2127	.0189	.0163	.3607	.2282
#1	2.045	2.018	1.959	1.950	1.998	1.989	2.035	1.977	2.458
#2	2.042	2.011	1.950	1.940	1.992	1.989	2.036	1.967	2.450
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.001	1.954	1.969	2.080	1.966	1.989	1.965	39.86	39.24
Stddev	.004	.005	.008	.000	.006	.008	.010	.05	.13
%RSD	.1777	.2578	.3924	.0206	.3120	.4043	.4940	.1191	.3431
#1	1.999	1.958	1.975	2.080	1.970	1.995	1.972	39.89	39.33
#2	2.004	1.951	1.964	2.080	1.962	1.984	1.958	39.82	39.14
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	39.67	38.92	41.07	40.36	1.987	1.982	1.975	4.949	1.994
Stddev	.16	.28	.04	.08	.006	.005	.001	.029	.005
%RSD	.3913	.7199	.1080	.1954	.2959	.2654	.0253	.5833	.2517
#1	39.78	39.12	41.10	40.42	1.991	1.986	1.975	4.970	1.997
#2	39.56	38.72	41.04	40.31	1.983	1.979	1.974	4.929	1.990
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

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Zoom In

Zoom Out

Sample Name: ccv Acquired: 5/31/2014 0:12:48 Type: QC							
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000							
User: admin Custom ID1: Custom ID2: Custom ID3:							
Comment: 1							
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.037	2.012	1.934	2.022	1.994	1.971	2.064
Stddev	.002	.001	.003	.001	.005	.005	.002
%RSD	.1189	.0658	.1530	.0614	.2667	.2352	.0816
#1	2.038	2.011	1.932	2.023	1.998	1.974	2.062
#2	2.035	2.013	1.936	2.022	1.990	1.967	2.065
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							
Int. Std.	Y_3600	Y_3710	Y_2243	In2306			
Units	Cts/S	Cts/S	Cts/S	Cts/S			
Avg	88359.	13311.	1569.2	5165.9			
Stddev	1.	80.	8.4	25.2			
%RSD	.00166	.60470	.53269	.48789			
#1	88360.	13254.	1563.2	5148.0			
#2	88358.	13368.	1575.1	5183.7			

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Sample Name: ccb Acquired: 5/31/2014 0:18:51 Type: QC							
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000							
User: admin Custom ID1: Custom ID2: Custom ID3:							
Comment:							
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0006	F .0233	F .0012	.0037	.0011	.0014
Stddev	.0000	.0001	.0009	.0001	.0003	.0005	.0005
%RSD	43.38	10.69	3.657	10.89	7.073	46.50	35.98
#1	.0000	.0006	.0239	.0013	.0039	.0007	.0018
#2	.0001	.0005	.0227	.0012	.0036	.0015	.0011
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			.0123	.0010			
Low Limit			-.0123	-.0010			
Int. Std.	Y_3600	Y_3710	Y_2243	In2306			
Units	Cts/S	Cts/S	Cts/S	Cts/S			
Avg	94570.	13604.	1621.7	5606.7			
Stddev	273.	91.	5.7	30.1			
%RSD	.28912	.66779	.35044	.53653			
#1	94763.	13540.	1625.7	5628.0			
#2	94376.	13669.	1617.6	5585.4			

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Sample Name: ccb Acquired: 5/31/2014 0:18:51 Type: QC										
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000										
User: admin Custom ID1: Custom ID2: Custom ID3:										
Comment:										
Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280	
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.0001	.0001	F .0011	.0008	-.0002	.0002	.0001	.0008	-.0001	
Stddev	.0001	.0000	.0006	.0004	.0002	.0002	.0000	.0007	.0002	
%RSD	77.58	3.337	51.24	46.57	120.1	114.9	35.19	86.26	418.1	
#1	.0002	.0001	.0007	.0005	.0000	.0000	.0001	.0003	-.0002	
#2	.0000	.0001	.0015	.0011	-.0003	.0003	.0001	.0013	.0001	
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	
High Limit			.0006							
Low Limit			-.0006							
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179	
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.0002	-.0004	.0007	.0000	.0006	.0018	.0012	.0089	-.0025	
Stddev	.0000	.0005	.0002	.000	.0007	.0025	.0001	.0013	.0010	
%RSD	9.940	143.9	23.21	1512.	116.5	137.4	9.884	14.83	38.40	
#1	.0002	-.0008	.0006	.0003	.0001	.0001	.0013	.0099	-.0018	
#2	.0002	.0000	.0008	-.0003	.0012	.0036	.0011	.0080	-.0032	
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	
High Limit										
Low Limit										
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899	
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.0008	-.0086	.0235	-.0147	.0026	F .0026	.0005	.0090	.0010	
Stddev	.0018	.0104	.0262	.0027	.0003	.0002	.0005	.0021	.0008	
%RSD	230.7	120.5	111.5	18.46	12.71	7.349	105.6	23.63	77.99	
#1	-.0005	-.0013	.0050	-.0128	.0024	.0025	.0001	.0075	.0005	
#2	.0020	-.0160	.0421	-.0166	.0029	.0027	.0008	.0106	.0016	
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	
High Limit						.0020				
Low Limit						-.0020				

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Sample Name: jb67706-5 Acquired: 5/31/2014 0:25:11 Type: Unk										
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000										
User: admin Custom ID1: Custom ID2: Custom ID3:										
Comment: soil 6th										
Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280	
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.3723	.0041	.0014	.0567	.0927	.2880	5.742	.1237	.0041	
Stddev	.0006	.0001	.0000	.0004	.0000	.0010	.041	.0001	.0002	
%RSD	.1743	2.954	1.205	.6635	.0176	.3328	.7213	.0759	4.010	
#1	.3719	.0040	.0014	.0564	.0927	.2874	5.713	.1236	.0042	
#2	.3728	.0042	.0013	.0569	.0927	.2887	5.772	.1237	.0040	
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179	
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.0546	.4060	.0403	.0033	.5750	.0036	.0003	58.59	21.53	
Stddev	.0002	.0010	.0006	.0012	.0001	.0018	.0005	.19	.02	
%RSD	.3544	.2562	1.518	37.12	.0180	49.97	139.6	.3237	.0919	
#1	.0544	.4053	.0407	.0042	.5751	.0023	.0007	58.45	21.52	
#2	.0547	.4067	.0399	.0024	.5749	.0049	.0000	58.72	21.54	
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899	
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	127.5	25.06	10.25	3.418	.0075	.0021	-.0113	1.746	.0113	
Stddev	.1	.03	.05	.011	.0002	.0004	.0001	.003	.0007	
%RSD	.1042	.1056	.4847	.3171	2.271	19.53	1.004	.1917	6.476	
#1	127.4	25.04	10.22	3.410	.0074	.0023	-.0113	1.748	.0118	
#2	127.6	25.08	10.29	3.426	.0077	.0018	-.0112	1.743	.0108	
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707			
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm			
Avg	.0628	.8407	.0194	.0331	.3035	-.0034	.1748			
Stddev	.0001	.0023	.0014	.0004	.0005	.0004	.0006			
%RSD	.0800	.2730	7.099	1.247	.1710	12.68	.3176			
#1	.0627	.8391	.0204	.0328	.3031	-.0031	.1752			
#2	.0628	.8423	.0184	.0334	.3038	-.0037	.1744			
Int. Std.	Y_3600	Y_3710	Y_2243	In2306						
Units	Cts/S	Cts/S	Cts/S	Cts/S						
Avg	92417.	13849.	1645.3	5388.5						
Stddev	260.	84.	3.8	18.6						
%RSD	.28130	.60756	.22844	.34436						
#1	92601.	13909.	1648.0	5401.6						
#2	92234.	13790.	1642.7	5375.4						

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Sample Name: mp79752-s1 2 Acquired: 5/31/2014 0:31:26 Type: Unk
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: soil 6th

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	4.571	.1095	.1030	1.007	.5691	.6875	3.078	1.069	.1140
Stddev	.003	.0002	.0003	.000	.0015	.0001	.010	.001	.0006
%RSD	.0572	.1690	.2708	.0005	.2556	.0214	.3112	.1029	.5329
#1	4.569	.1097	.1028	1.007	.5681	.6874	3.072	1.068	.1144
#2	4.573	.1094	.1032	1.007	.5702	.6876	3.085	1.070	.1136
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	1.163	1.356	3.920	4.127	1.244	4.032	.6097	139.5	36.80
Stddev	.004	.002	.003	.005	.001	.001	.0016	.1	.18
%RSD	.3737	.1276	.0635	.1134	.0725	.0214	.2595	.0847	.4924
#1	1.160	1.354	3.918	4.124	1.244	4.032	.6085	139.6	36.93
#2	1.167	1.357	3.922	4.131	1.243	4.033	.6108	139.4	36.67
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	183.9	34.12	23.05	14.49	.0739	-.0033	-.0150	4.871	.0332
Stddev	.3	.24	.02	.03	.0003	.0002	.0002	.001	.0011
%RSD	.1703	.7045	.0705	.1812	.4140	4.711	1.232	.0251	3.300
#1	184.2	34.29	23.06	14.47	.0737	-.0034	-.0151	4.872	.0324
#2	183.7	33.95	23.04	14.51	.0741	-.0032	-.0148	4.870	.0339
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.1214	1.648	.0298	.0416	.6339	-.0049	.0586		
Stddev	.0003	.003	.0015	.0006	.0024	.0005	.0009		
%RSD	.2315	.1636	4.906	1.336	.3862	9.219	1.498		
#1	.1216	1.646	.0288	.0420	.6357	-.0046	.0592		
#2	.1212	1.650	.0308	.0412	.6322	-.0052	.0580		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	89292.	13494.	582.0	5169.8					
Stddev	114.	57.	1.9	.9					
%RSD	.12766	.42418	.11730	.01789					
#1	89373.	13454.	580.7	5169.2					
#2	89212.	13535.	583.3	5170.5					

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Sample Name: mp79752-sd1 Acquired: 5/31/2014 0:43:35 Type: Unk
Method: Accutest1(v93) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: soil 6th

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	4.173	.0048	.0017	.0398	.1476	.1746	2.328	.0822	.0034
Stddev	.0011	.0000	.0002	.0000	.0010	.0008	.006	.0026	.0006
%RSD	.2741	.7415	9.740	.0084	.6939	.4378	.2488	3.119	16.77
#1	4.165	.0048	.0015	.0398	.1484	.1751	2.333	.0804	.0038
#2	4.181	.0048	.0018	.0398	.1469	.1741	2.324	.0840	.0030
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.2053	.6104	.0371	.0151	.3024	.0128	.0054	71.13	30.78
Stddev	.0001	.0069	.0010	.0061	.0025	.0169	.0018	.25	.12
%RSD	.0509	1.132	2.697	40.64	.8280	132.1	32.96	.3548	.4041
#1	.2052	.6056	.0364	.0107	.3042	.0008	.0067	70.95	30.87
#2	.2054	.6153	.0378	.0194	.3007	.0248	.0042	71.30	30.69
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	122.8	26.28	10.22	2.791	.0641	-.0015	-.0098	2.391	.0347
Stddev	.0	.42	.08	.027	.0060	.0011	.0037	.024	.0048
%RSD	.0170	1.598	.7449	.9669	9.376	72.18	37.85	.9951	13.72
#1	122.8	26.57	10.28	2.772	.0598	-.0023	-.0124	2.374	.0313
#2	122.8	25.98	10.17	2.811	.0683	-.0008	-.0072	2.408	.0380
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.1896	1.636	.0459	.0182	1.430	-.0013	.0803		
Stddev	.0002	.002	.0028	.0007	.013	.0036	.0020		
%RSD	.0844	.1096	6.115	4.047	.9053	279.7	2.430		
#1	.1895	1.635	.0439	.0188	1.421	.0013	.0817		
#2	.1897	1.637	.0479	.0177	1.439	-.0039	.0789		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	92829.	13593.	1637.3	5516.4					
Stddev	90.	1.	14.5	35.4					
%RSD	.09690	.00600	.88411	.64107					
#1	92765.	13593.	1647.5	5541.5					
#2	92892.	13594.	1627.1	5491.4					

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Sample Name: mp79752-s2 Acquired: 5/31/2014 0:37:29 Type: Unk
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: soil 6th

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	4.344	.1040	.0979	.9646	.5217	.6020	3.005	1.022	.1080
Stddev	.012	.0001	.0001	.0015	.0000	.0004	.004	.002	.0003
%RSD	.2739	.1172	.0667	.1566	.0004	.0724	.1370	.2118	.3201
#1	4.335	.1040	.0980	.9635	.5217	.6024	3.002	1.020	.1078
#2	4.352	.1039	.0979	.9657	.5217	.6017	3.008	1.023	.1083
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	1.092	1.302	3.713	3.956	1.199	3.829	.5827	125.2	39.64
Stddev	.002	.001	.006	.010	.002	.002	.0004	.1	.20
%RSD	.1468	.0490	.1640	.2418	.1347	.0607	.0630	.1108	.5065
#1	1.091	1.302	3.717	3.963	1.197	3.831	.5829	125.1	39.79
#2	1.093	1.303	3.709	3.949	1.200	3.827	.5824	125.3	39.50
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	155.8	35.09	21.40	13.65	.0918	-.0029	-.0137	4.586	.0328
Stddev	.2	.20	.00	.05	.0000	.0001	.0002	.003	.0006
%RSD	.1212	.5608	.0201	.3609	.0250	2.516	1.812	.0732	1.820
#1	155.9	35.22	21.40	13.62	.0918	-.0028	-.0139	4.588	.0332
#2	155.6	34.95	21.40	13.69	.0918	-.0029	-.0135	4.583	.0324
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.1227	1.522	.0233	.0334	.6336	-.0031	.0548		
Stddev	.0001	.002	.0004	.0000	.0015	.0001	.0000		
%RSD	.0500	.1060	1.628	.0602	.2298	4.230	.0010		
#1	.1227	1.520	.0236	.0334	.6346	-.0032	.0548		
#2	.1227	1.523	.0231	.0334	.6326	-.0030	.0548		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	90920.	13864.	1621.7	5259.3					
Stddev	146.	79.	4.4	9.5					
%RSD	.16006	.56785	.27434	.18055					
#1	91022.	13808.	1618.6	5252.6					
#2	90817.	13919.	1624.8	5266.0					

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Sample Name: jb67744-1 Acquired: 5/31/2014 0:49:47 Type: Unk
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: soil 6th

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.7288	.0124	.0037	.1212	.3815	.3361	3.330	.4190	.0092
Stddev	.0038	.0001	.0003	.0001	.0024	.0022	.008	.0005	.0007
%RSD	.5283	.4146	7.943	.1060	.6330	.6677	.2483	.1258	7.866
#1	.7315	.0124	.0035	.1211	.3832	.3376	3.336	.4187	.0087
#2	.7261	.0124	.0039	.1213	.3798	.3345	3.324	.4194	.0097
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.4398	.9575	.1310	.0003	1.038	.0099	.0076	225.5	28.12
Stddev	.0013	.0025	.0002	.0004	.003	.0026	.0008	.5	.07
%RSD	.2936	.2591	.1817	122.2	.2630	26.20	10.53	.2336	.2628
#1	.4407	.9593	.1311	.0000	1.036	.0081	.0070	225.8	28.17
#2	.4389	.9558	.1308	.0006	1.040	.0117	.0082	225.1	28.07
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	340.3	77.53	42.93	18.89	.1720	-.0014	-.0275	3.448	.0567
Stddev	1.2	.32	.13	.06	.0009	.0001	.0000	.001	.0008
%RSD	.3535	.4141	.3081	.3154	.5006	4.232	.1616	.0351	1.409
#1	339.4	77.76	43.03	18.93	.1714	-.0015	-.0275	3.447	.0573
#2	341.1	77.31	42.84	18.85	.1726	-.0014	-.0275	3.449	.0562
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.3172	5.296	.0286	.1435	132.7	-.0067	.4629		
Stddev	.0023	.019	.0011	.0008	.2	.0001	.0020		
%RSD	.7259	.3637	3.789	.5456	.1643	1.151	.4323		
#1	.3188	5.310	.0293	.1441	132.8	-.0067	.4644		
#2	.3156	5.282	.0278	.1430	132.5	-.0066	.4615		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	95605.	14489.	1707.7	5298.4					
Stddev	342.	.	1.2	2.2					
%RSD	.35774	.00184	.07164	.04082					
#1	95363.	14489.	1706.9	5296.9					
#2	95847.	14489.	1708.6	5299.9					

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Sample Name: jb67744-2 Acquired: 5/31/2014 0:55:57 Type: Unk										Zoom In Zoom Out	
Method: Accutest1(v93)		Mode: CONC		Corr. Factor: 1.000000							
User: admin		Custom ID1:		Custom ID2:		Custom ID3:					
Comment: soil 6th											
Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280		
Avg	.5165	.0091	.0031	.1005	.3077	.1515	3.366	.2789	.0097		
Stddev	.0012	.0000	.0003	.0003	.0008	.0002	.004	.0006	.0002		
%RSD	.2404	.2225	9.809	.2820	.2529	.1158	.1259	.1998	2.296		
#1	.5174	.0091	.0033	.1003	.3072	.1513	3.363	.2793	.0095		
#2	.5156	.0091	.0029	.1007	.3083	.1516	3.369	.2785	.0098		
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179		
Avg	.3366	.7752	.1300	.0025	.2447	.0094	.0090	167.5	34.80		
Stddev	.0001	.0028	.0008	.0039	.0015	.0004	.0004	.5	.02		
%RSD	.0237	.3660	.6325	157.9	.6236	3.892	4.708	.3127	.0468		
#1	.3366	.7772	.1295	-.0003	.2437	.0096	.0087	167.8	34.81		
#2	.3367	.7732	.1306	.0053	.2458	.0091	.0093	167.1	34.79		
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899		
Avg	326.0	59.99	34.28	5.743	.1425	.0001	-.0239	2.384	.0342		
Stddev	.5	.09	.07	.016	.0005	.0003	.0004	.001	.0016		
%RSD	.1565	.1434	.2156	.2839	.3826	274.1	1.595	.0306	4.777		
#1	326.4	60.05	34.33	5.755	.1421	-.0001	-.0242	2.385	.0330		
#2	325.7	59.93	34.23	5.732	.1429	.0003	-.0236	2.384	.0354		
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707				
Avg	.2553	3.576	.0260	.1381	172.9	-.0054	.3562				
Stddev	.0007	.002	.0004	.0005	.7	.0003	.0021				
%RSD	.2832	.0640	1.518	.3729	.3889	4.823	.5924				
#1	.2558	3.574	.0263	.1384	173.4	-.0052	.3577				
#2	.2548	3.578	.0258	.1377	172.4	-.0056	.3547				
Int. Std.	Y_3600	Y_3710	Y_2243	In2306							
Avg	94513.	14306.	1669.8	5340.8							
Stddev	25.	17.	.1	9.8							
%RSD	.02637	.11752	.00827	.18397							
#1	94496.	14294.	1669.9	5333.8							
#2	94531.	14318.	1669.7	5347.7							
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Sample Name: jb67744-4										Acquired: 5/31/2014 1:08:12		Type: Unk	
Method: Accutest1(v93)										Mode: CONC		Corr. Factor: 1.000000	
User: admin		Custom ID1:		Custom ID2:		Custom ID3:							
Comment: soil 6th													
Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280				
Avg	.4659	.0057	.0019	.0602	.1957	.0972	2.295	.1819	.0082				
Stddev	.0003	.0000	.0001	.0002	.0002	.0003	.006	.0002	.0001				
%RSD	.0552	.7712	6.982	.2609	.0816	.3213	.2831	.1078	1.323				
#1	.4657	.0057	.0018	.0603	.1958	.0975	2.290	.1818	.0083				
#2	.4661	.0056	.0020	.0601	.1955	.0970	2.299	.1821	.0081				
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179				
Avg	.2256	.4318	.0719	-.0128	.2066	.0279	.0057	109.6	533.0				
Stddev	.0013	.0018	.0010	.0027	.0017	.0019	.0002	.3	2.6				
%RSD	.5753	.4195	1.430	21.05	.8105	6.774	3.289	.3099	.4788				
#1	.2247	.4305	.0726	-.0147	.2054	.0266	.0055	109.4	534.8				
#2	.2266	.4331	.0712	-.0109	.2078	.0293	.0058	109.8	531.2				
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899				
Avg	191.6	37.72	22.11	11.05	.1076	.0113	-.0263	2.354	.0193				
Stddev	.0	.01	.05	.04	.0009	.0000	.0009	.014	.0007				
%RSD	.0082	.0241	.2469	.3362	.8686	.3093	3.320	.5948	3.433				
#1	191.6	37.72	22.08	11.02	.1069	.0113	-.0257	2.344	.0198				
#2	191.6	37.71	22.15	11.08	.1083	.0114	-.0270	2.364	.0188				
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707						
Avg	2.634	2.323	.0160	.0832	107.7	-.0030	.2480						
Stddev	.006	.006	.0005	.0002	.2	.0007	.0007						
%RSD	.2485	.2443	2.949	.2845	.2288	23.62	.2896						
#1	2.638	2.319	.0164	.0834	107.5	-.0025	.2475						
#2	2.629	2.327	.0157	.0831	107.9	-.0035	.2485						
Int. Std.	Y_3600	Y_3710	Y_2243	In2306									
Avg	88379.	13834.	1577.1	4866.9									
Stddev	187.	64.	6.5	11.4									
%RSD	.21207	.46434	.40994	.23467									
#1	88512.	13880.	1581.7	4875.0									
#2	88247.	13789.	1572.6	4858.8									
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Sample Name: jb67744-3 Acquired: 5/31/2014 1:02:02 Type: Unk										Zoom In Zoom Out	
Method: Accutest1(v93)		Mode: CONC		Corr. Factor: 1.000000							
User: admin		Custom ID1:		Custom ID2:		Custom ID3:					
Comment: soil 6th											
Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280		
Avg	.9086	.0129	.0036	.1263	.3989	.4362	3.268	.4443	.0086		
Stddev	.0021	.0000	.0002	.0002	.0004	.0007	.004	.0008	.0005		
%RSD	.2335	.0952	6.402	.1249	.1036	.1636	.1141	.1739	5.356		
#1	.9071	.0129	.0035	.1264	.3991	.4357	3.266	.4449	.0089		
#2	.9101	.0129	.0038	.1262	.3986	.4367	3.271	.4438	.0083		
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179		
Avg	.4663	1.150	.1300	.0004	1.946	.0119	.0099	238.6	28.93		
Stddev	.0020	.002	.0022	.0026	.004	.0000	.0020	.8	.08		
%RSD	.4325	.1423	1.686	671.8	.1956	.0099	19.95	.3547	.2648		
#1	.4648	1.151	.1315	-.0015	1.949	.0119	.0113	238.0	28.98		
#2	.4677	1.148	.1284	-.0022	1.944	.0119	.0085	239.2	28.88		
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899		
Avg	342.9	80.38	45.25	20.44	.1752	.0024	-.0282	2.792	.0879		
Stddev	1.3	.38	.11	.07	.0000	.0002	.0005	.000	.0018		
%RSD	.3847	.4729	.2383	.3385	.0079	8.389	1.909	.0044	2.045		
#1	341.9	80.65	45.17	20.39	.1752	.0025	-.0286	2.792	.0891		
#2	343.8	80.11	45.33	20.49	.1752	.0022	-.0278	2.792	.0866		
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707				
Avg	.4782	5.291	.0281	.1409	123.9	-.0084	.4898				
Stddev	.0003	.001	.0008	.0002	.7	.0009	.0001				
%RSD	.0537	.0138	2.942	.1163	.5665	10.12	.0160				
#1	.4784	5.292	.0275	.1410	124.4	-.0090	.4897				
#2	.4780	5.291	.0287	.1408	123.4	-.0078	.4899				
Int. Std.	Y_3600	Y_3710	Y_2243	In2306							
Avg	95490.	14528.	1708.7	5277.4							
Stddev	64.	1.	.1	2.8							
%RSD	.06692	.00878	.00394	.05274							
#1	95535.	14527.	1708.8	5275.4							
#2	95444.	14528.	1708.7	5279.3							
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Sample Name: jb67744-5										Acquired: 5/31/2014 1:14:23										Type: Unk																									
Method: Accutest1(v93)										Mode: CONC										Corr. Factor: 1.000000																									
User: admin										Custom ID1:										Custom ID2:										Custom ID3:															
Comment: soil 6th																																													
Elem	Ba4554					Be3130					Cd2288					Co2286					Cr2677					Cu3247					Mn2576					Ni2316					Ag3280				
Avg	1.388					.0036					.0024					.0594					.1006					.2714					1.383					.1774					.0079				
Stddev	.002					.0000					.0001					.0003					.0001					.0012					.005					.0001					.0000				
%RSD	.1722					1.337					5.527					.4524					.1490					.4573					.3901					.0696					.3451				
#1	1.390					.0036					.0025					.0596					.1005					.2722					1.387					.1773					.0079				
#2	1.387					.0036					.0023					.0592					.1007					.2705					1.379					.1775					.0079				
Elem	V_2924					Zn2062					As1890					Ti1908					Pb2203					Se1960					Sb2068					Al3961					Ca3179				
Avg	.1887					1.205					.1315					.0042					1.762					.0538					.0038					51.64					91.48				
Stddev	.0008					.001					.0021					.0009					.003					.0003					.0005					.03					.21				
%RSD	.4085					.0839					1.590					21.27					.1560					.5338					14.03					.0628					.2260				
#1	.1893					1.204					.1300					.0048					1.764					.0540					.0042					51.62					91.62				
#2	.1882					1.206					.1329					.0036					1.760					.0536					.0035					51.66					91.33				
Elem	Fe2599					Mg2790					K_7664					Na5895					B_2089					Mo2020					Pd3404					Si2124					Sn1899				
Avg	123.1					14.68					8.273					2.687					.0275					.0132					.0120					2.787					.2218				
Stddev	.4					.01					.019					.006					.0001					.0001					.0006					.002					.0006				
%RSD	.2934					.0790					.2260					.2094					.3424					.5086					4.783					.0526					.2509				
#1	123.3					14.67					8.286					2.691					.0276					.0132					.0116					2.786					.2222				
#2	122.8					14.69					8.260					2.683					.0274					.0133					.0124					2.788					.2214				
Elem	Sr4077					Ti3349					W_2079					Zr3391					S_1820					Bi2230					Li6707														
Avg	.4717					1.743					.0138					.0359					51.74					.0004					.0934														
Stddev	.0016					.006					.0000					.0001					.05					.0003					.0002														
%RSD	.3484					.3575					.1309					.3155					.1040					67.77					.1959														
#1	.4729					1.747					.0138					.0359					51.70					.0006					.0935														
#2	.4705					1.738					.0138					.0360					51.78					.0002					.0932														
Int. Std.	Y_3600					Y_3710					Y_2243					In2306																													
Avg	89980.					13689.					1616.1					5309.2																													
Stddev	383.					14.					1.1					8.4																													
%RSD	.42579					.10116					.06872					.15734																													
#1	89709.					13679.					1616.9					5303.3																													
#2	90251.					13699.					1615.3					5315.1																													
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Sample Name: jb67744-8 Acquired: 5/31/2014 1:20:31 Type: Unk
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: soil 6th

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.5475	.0097	.0020	.0962	.3307	.1912	2.816	.3275	.0077
Stddev	.0003	.0000	.0001	.0001	.0015	.0001	.008	.0005	.0001
%RSD	.0638	.1313	5.285	.0868	.4525	.0719	.2766	.1542	1.811
#1	.5477	.0097	.0021	.0962	.3296	.1913	2.810	.3272	.0078
#2	.5472	.0097	.0019	.0963	.3317	.1911	2.821	.3279	.0076
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.4034	.6896	.1070	.0061	.3643	.0066	.0086	187.8	26.49
Stddev	.0004	.0003	.0010	.0008	.0005	.0027	.0025	.0	.08
%RSD	.0965	.0457	.9550	12.84	.1345	40.42	29.50	.0146	.2912
#1	.4037	.6898	.1077	.0066	.3639	.0085	.0104	187.8	26.55
#2	.4031	.6894	.1062	.0055	.3646	.0047	.0068	187.8	26.44
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	294.6	65.93	39.80	9.101	.1770	.0284	-.0227	1.881	.0271
Stddev	.8	.23	.02	.022	.0010	.0000	.0007	.004	.0004
%RSD	.2833	.3490	.0497	.2407	.5456	.1235	3.072	.2139	1.571
#1	295.2	66.09	39.81	9.117	.1763	.0284	-.0232	1.878	.0274
#2	294.0	65.77	39.78	9.086	.1777	.0284	-.0222	1.884	.0268
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.3432	4.404	.0237	.1317	174.5	-.0068	.3874		
Stddev	.0005	.006	.0036	.0003	.2	.0006	.0005		
%RSD	.1512	.1437	15.01	.2040	.0962	8.982	.1241		
#1	.3435	4.400	.0262	.1319	174.3	-.0072	.3877		
#2	.3428	4.408	.0212	.1315	174.6	-.0063	.3871		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	93623.	14090.	1662.5	5291.4					
Stddev	13.	48.	2.5	3.3					
%RSD	.01378	.34111	.15199	.06181					
#1	93614.	14056.	1664.3	5289.1					
#2	93632.	14124.	1660.7	5293.7					

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Sample Name: ccv Acquired: 5/31/2014 1:26:37 Type: QC
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: 2

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.032	2.017	1.949	2.028	2.022	1.988	2.067
Stddev	.004	.003	.017	.003	.012	.008	.004
%RSD	.1795	.1525	.8445	.1485	.5703	.4085	.1882
#1	2.029	2.015	1.938	2.026	2.014	1.982	2.064
#2	2.034	2.019	1.961	2.031	2.031	1.993	2.070
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							
Int. Std.	Y_3600	Y_3710	Y_2243	In2306			
Units	Cts/S	Cts/S	Cts/S	Cts/S			
Avg	88406.	13046.	1557.2	5148.1			
Stddev	198.	33.	4.9	3.9			
%RSD	.22421	.25085	.31216	.07662			
#1	88546.	13023.	1560.6	5150.8			
#2	88266.	13069.	1553.7	5145.3			

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Sample Name: ccv Acquired: 5/31/2014 1:26:37 Type: QC
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: 2

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.053	2.027	1.988	1.973	2.014	1.980	2.045	2.001	.2456
Stddev	.003	.001	.005	.002	.003	.002	.005	.002	.0003
%RSD	.1515	.0557	.2635	.0994	.1529	.0798	.2383	.1073	.1380
#1	2.051	2.028	1.984	1.974	2.012	1.979	2.041	2.002	.2458
#2	2.056	2.026	1.992	1.972	2.017	1.981	2.048	1.999	.2453
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.003	1.982	2.004	2.112	1.988	2.009	1.980	40.27	39.46
Stddev	.006	.004	.008	.008	.002	.009	.002	.05	.04
%RSD	.2881	.2231	.3778	.3590	.1074	.4215	.1133	.1240	.0954
#1	1.998	1.995	1.999	2.106	1.988	2.004	1.978	40.23	39.49
#2	2.007	1.989	2.010	2.117	1.985	2.015	1.981	40.30	39.43
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	39.83	39.15	41.44	40.77	2.016	2.006	1.974	5.000	2.042
Stddev	.01	.11	.03	.04	.007	.004	.004	.008	.004
%RSD	.0159	.2905	.0769	.1051	.3593	.2049	.1895	.1568	.1787
#1	39.84	39.23	41.47	40.74	2.011	2.003	1.971	4.994	2.039
#2	39.83	39.07	41.42	40.80	2.021	2.008	1.977	5.005	2.045
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

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Sample Name: ccb Acquired: 5/31/2014 1:32:40 Type: QC
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0016	F_.0012	F_.0013	.0011	F_.0017	.0013	F_.0021	F_.0013	.0003
Stddev	.0000	.0002	.0002	.0001	.0001	.0003	.0000	.0004	.0003
%RSD	.5349	13.88	15.54	9.684	7.145	21.23	.7136	32.43	84.64
#1	.0016	.0011	.0014	.0012	.0016	.0015	.0021	.0016	.0001
#2	.0016	.0013	.0011	.0011	.0017	.0011	.0021	.0010	.0005
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Pass
High Limit		.0010	.0006		.0012		.0015	.0010	
Low Limit		-.0010	-.0006		-.0012		-.0015	-.0010	
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0022	.0001	.0011	F_.0025	.0025	.0010	.0015	.0285	.0228
Stddev	.0000	.0000	.0005	.0013	.0013	.0007	.0006	.0077	.0066
%RSD	.7635	50.70	50.51	52.52	51.09	69.57	37.62	27.02	28.87
#1	.0021	.0000	.0014	.0034	.0034	.0015	.0019	.0231	.0182
#2	.0022	.0001	.0007	.0016	.0016	.0005	.0011	.0340	.0275
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				.0020					
Low Limit				-.0020					
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F_.0319	.0352	.0567	.0204	.0030	F_.0033	.0027	.0095	.0011
Stddev	.0070	.0032	.0338	.0016	.0004	.0006	.0002	.0006	.0007
%RSD	21.85	9.083	59.62	7.954	14.05	17.73	9.198	5.896	61.97
#1	.0269	.0330	.0328	.0193	.0033	.0038	.0029	.0099	.0016
#2	.0368	.0375	.0806	.0216	.0027	.0029	.0025	.0091	.0006
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit	.0100					.0020			
Low Limit	-.0100					-.0020			

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Sample Name: ccb Acquired: 5/31/2014 1:32:40 Type: QC
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F_.0013	F_.0022	F_.0251	F_.0024	.0056	.0016	F_.0028
Stddev	.0002	.0002	.0018	.0000	.0009	.0007	.0006
%RSD	15.98	8.908	7.284	.7820	15.88	41.54	20.38
#1	.0011	.0020	.0264	.0024	.0063	.0021	.0024
#2	.0014	.0023	.0238	.0024	.0050	.0011	.0032
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail
High Limit	.0010	.0010	.0123	.0010			.0020
Low Limit	-.0010	-.0010	-.0123	-.0010			-.0020
Int. Std.	Y_3600	Y_3710	Y_2243	In2306			
Units	Cts/S	Cts/S	Cts/S	Cts/S			
Avg	94083.	13423.	1625.8	5604.9			
Stddev	79.	42.	4.6	17.5			
%RSD	.08353	.31364	.28144	.31303			
#1	94139.	13393.	1622.6	5592.5			
#2	94028.	13452.	1629.1	5617.3			

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Zoom In

Zoom Out

Sample Name: jb67744-9 Acquired: 5/31/2014 1:38:58 Type: Unk
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: soil 6th

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.9018	.0137	.0033	.1375	.4499	.3079	3.517	.4786	.0084
Stddev	.0014	.0000	.0003	.0005	.0034	.0016	.025	.0000	.0008
%RSD	.1548	.2576	10.15	.3808	.7636	.5256	.7095	.0060	9.459
#1	.9028	.0137	.0035	.1371	.4474	.3068	3.499	.4786	.0078
#2	.9009	.0137	.0030	.1378	.4523	.3091	3.534	.4786	.0090
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.5499	1.019	.1853	-.0005	.7454	.0129	.0114	246.4	40.39
Stddev	.0035	.001	.0012	.0047	.0004	.0045	.0005	.2	.07
%RSD	.6406	.0688	.6659	872.9	.0565	34.63	4.382	.0676	.1611
#1	.5474	1.019	.1862	-.0039	.7451	.0097	.0117	246.3	40.34
#2	.5523	1.020	.1844	.0028	.7457	.0160	.0110	246.5	40.44
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	389.5	91.94	52.58	12.75	.2386	.0444	-.0312	1.762	.0460
Stddev	5.5	.16	.00	.02	.0005	.0004	.0010	.004	.0010
%RSD	1.418	.1689	.0088	.1298	.2116	1.001	3.139	.2326	2.146
#1	385.6	91.83	52.57	12.76	.2389	.0447	-.0305	1.764	.0453
#2	393.4	92.05	52.58	12.74	.2382	.0440	-.0319	1.759	.0467
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.6362	5.985	.0379	.1863	.238.2	-.0098	.5317		
Stddev	.0001	.034	.0008	.0008	.4	.0012	.0005		
%RSD	.0200	.5666	2.082	.4535	.1695	12.22	.0859		
#1	.6363	5.961	.0374	.1857	.238.5	-.0090	.5314		
#2	.6361	6.009	.0385	.1869	.237.9	-.0107	.5320		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	96583.	14547.	1673.0	5229.8					
Stddev	432.	21.	1.5	2.8					
%RSD	.44757	.14293	.08875	.05437					
#1	96888.	14561.	1672.0	5231.8					
#2	96277.	14532.	1674.1	5227.8					

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Zoom In

Zoom Out

Sample Name: jb67744-10 Acquired: 5/31/2014 1:45:12 Type: Unk
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: soil 6th

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	1.077	.0077	.0014	.0716	.3297	2103	2.463	.2652	.0086
Stddev	.003	.0000	.0001	.0003	.0014	.0000	.006	.0003	.0004
%RSD	.2821	.2295	4.697	.4130	.4314	.0230	.2571	.1023	4.108
#1	1.079	.0077	.0014	.0718	.3287	2103	2.459	.2654	.0083
#2	1.075	.0077	.0013	.0714	.3307	2102	2.468	.2650	.0088
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.4074	.6404	.0886	.0039	.5077	.0098	.0059	171.4	35.65
Stddev	.0009	.0002	.0024	.0007	.0003	.0047	.0012	.4	.18
%RSD	.2214	.0377	2.746	17.31	.0558	48.02	21.18	.2435	.5160
#1	.4068	.6406	.0869	.0044	.5075	.0065	.0067	171.7	35.52
#2	.4080	.6403	.0904	.0034	.5079	.0132	.0050	171.1	35.78
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	291.8	59.04	35.90	6.615	.1692	.0057	-.0217	2.156	.0414
Stddev	.9	.27	.04	.026	.0011	.0002	.0000	.007	.0015
%RSD	.3075	.4545	.1210	.3934	.6421	4.205	.1427	.3461	3.698
#1	291.2	58.85	35.93	6.633	.1699	.0056	-.0217	2.162	.0425
#2	292.5	59.23	35.87	6.597	.1684	.0059	-.0217	2.151	.0403
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.5870	4.282	.0289	.1221	47.94	-.0080	.3572		
Stddev	.0003	.001	.0023	.0000	.01	.0007	.0022		
%RSD	.0459	.0275	7.844	.0162	.0279	9.401	.6204		
#1	.5872	4.281	.0305	.1221	47.95	-.0085	.3588		
#2	.5868	4.282	.0273	.1221	47.93	-.0074	.3557		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	95054.	14197.	1669.5	5331.1					
Stddev	134.	70.	5.6	2.0					
%RSD	.14127	.49111	.33357	.03715					
#1	95149.	14247.	1665.5	5329.7					
#2	94959.	14148.	1673.4	5332.5					

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Zoom In

Zoom Out

Sample Name: jb67744-12 Acquired: 5/31/2014 1:51:19 Type: Unk
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: soil 6th

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	1.213	.0048	.0022	.0759	.1067	.4327	1.373	.1533	.0053
Stddev	.003	.0001	.0002	.0007	.0004	.0025	.002	.0005	.0001
%RSD	.2291	1.647	7.394	.9688	.3653	.5854	.1532	.2960	1.029
#1	1.211	.0048	.0020	.0754	.1070	.4309	1.375	.1530	.0053
#2	1.215	.0049	.0023	.0764	.1064	.4345	1.372	.1536	.0054
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.1735	.8427	.0918	-.0024	1.720	.0212	.0036	52.73	189.1
Stddev	.0001	.0002	.0005	.0008	.001	.0036	.0003	.13	1.1
%RSD	.0516	.0209	.5413	33.92	.0338	17.23	8.407	.2427	.6076
#1	.1735	.8428	.0921	-.0018	1.721	.0237	.0038	52.64	188.3
#2	.1734	.8426	.0914	-.0030	1.720	.0186	.0034	52.82	189.9
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	94.28	27.26	7.384	4.532	.0377	.0117	-.0147	3.393	.1032
Stddev	.48	.14	.011	.008	.0003	.0001	.0002	.001	.0006
%RSD	.5069	.5237	.1417	.1843	.7755	.8724	1.623	.0157	.6118
#1	93.94	27.16	7.377	4.526	.0375	.0118	-.0149	3.393	.1037
#2	94.62	27.36	7.392	4.538	.0379	.0117	-.0145	3.392	.1028
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	1.019	1.597	.0154	.0440	22.05	-.0025	.0839		
Stddev	.001	.002	.0018	.0001	.15	.0025	.0002		
%RSD	.0749	.1003	11.75	.3368	.6593	97.84	.2709		
#1	1.018	1.596	.0167	.0438	21.94	-.0043	.0840		
#2	1.020	1.598	.0141	.0441	22.15	-.0008	.0837		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	90030.	13600.	1589.4	5095.0					
Stddev	204.	109.	1.5	17.7					
%RSD	.22619	.80109	.09735	.34785					
#1	90174.	13677.	1590.5	5107.6					
#2	89886.	13523.	1588.3	5082.5					

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Zoom In

Zoom Out

Sample Name: jb67744-13 Acquired: 5/31/2014 1:57:29 Type: Unk
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: soil 6th

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.4315	.0105	.0032	.1005	.3006	.1612	2.599	.2777	.0077
Stddev	.0131	.0004	.0004	.0003	.0011	.0017	.004	.0006	.0025
%RSD	3.030	3.599	11.63	.3406	.3751	1.051	.1347	.2211	32.39
#1	.4407	.0108	.0030	.1002	.3013	.1624	2.602	.2772	.0095
#2	.4223	.0102	.0035	.1007	.2998	.1600	2.597	.2781	.0059
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.5147	.6464	.0699	.0079	.2599	.0116	.0081	192.4	42.58
Stddev	.0008	.0005	.0007	.0030	.0007	.0008	.0008	6.3	1.37
%RSD	.1460	.0818	.9571	37.91	.2797	6.729	9.882	3.254	3.219
#1	.5142	.6460	.0694	.0100	.2604	.0121	.0076	196.8	43.55
#2	.5152	.6468	.0703	.0058	.2594	.0110	.0087	188.0	41.61
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	264.0	65.15	40.26	23.38	.3190	.1937	-0.209	1.560	.0215
Stddev	8.6	2.02	1.26	.73	.0004	.0008	.0009	.001	.0010
%RSD	3.272	3.093	3.131	3.123	.1368	.3883	4.220	.0356	4.732
#1	270.1	66.57	41.15	23.89	.3187	.1932	-.0216	1.560	.0207
#2	257.9	63.72	39.36	22.86	.3193	.1942	-.0203	1.560	.0222
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.4151	3.153	.0245	.1345	.230.4	-0.058	.4981		
Stddev	.0140	.004	.0003	.0009	.7	.0002	.0164		
%RSD	3.372	.1242	1.296	.6897	.2839	3.290	3.283		
#1	.4250	3.156	.0247	.1352	230.0	-.0059	.5097		
#2	.4052	3.151	.0242	.1339	230.9	-.0057	.4866		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	94303.	14069.	1669.3	5202.5					
Stddev	6.	372.	3.3	10.8					
%RSD	.00592	2.6455	.19923	.20796					
#1	94307.	13805.	1671.7	5210.2					
#2	94299.	14332.	1667.0	5194.9					

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Sample Name: jb67744-14 Acquired: 5/31/2014 2:03:34 Type: Unk
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: soil 6th

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.6026	.0099	.0030	.1207	.2893	.1673	2.846	.3144	.0063
Stddev	.0070	.0001	.0003	.0015	.0002	.0004	.003	.0016	.0006
%RSD	1.157	.5661	9.641	1.238	.0617	.2670	.1026	.4988	9.989
#1	.5977	.0099	.0032	.1217	.2892	.1670	2.848	.3155	.0058
#2	.6076	.0099	.0028	.1196	.2895	.1676	2.844	.3133	.0067
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.4251	.6362	.1272	.0036	.4062	.0086	.0053	177.1	32.84
Stddev	.0002	.0053	.0011	.0027	.0036	.0014	.0000	2.3	.46
%RSD	.0397	.8252	.8471	74.60	.8804	16.00	.1833	1.298	1.406
#1	.4250	.6400	.1279	.0017	.4088	.0076	.0054	175.5	32.51
#2	.4253	.6325	.1264	.0055	.4037	.0095	.0053	178.7	33.17
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	261.1	54.07	33.43	7.467	.1615	.0399	-0.218	1.563	.0235
Stddev	3.3	.75	.40	.084	.0002	.0004	.0001	.007	.0017
%RSD	1.278	1.388	1.191	1.121	.1120	1.029	.4988	.4515	7.097
#1	258.8	53.54	33.15	7.408	.1617	.0402	-.0219	1.568	.0246
#2	263.5	54.60	33.71	7.526	.1614	.0396	-.0218	1.558	.0223
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.3241	3.369	.0226	.1191	137.8	-0.056	.4232		
Stddev	.0035	.001	.0001	.0003	.9	.0003	.0031		
%RSD	1.065	.0388	.5584	.2263	.6171	5.469	.7266		
#1	.3217	3.368	.0225	.1193	138.4	-.0058	.4211		
#2	.3266	3.370	.0227	.1189	137.2	-.0053	.4254		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	95568.	14356.	1693.7	5292.3					
Stddev	109.	230.	3.5	24.2					
%RSD	.11364	1.6039	.20834	.45689					
#1	95644.	14519.	1691.2	5275.2					
#2	95491.	14193.	1696.2	5309.4					

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Sample Name: jb67744-15 Acquired: 5/31/2014 2:09:41 Type: Unk
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: soil 6th

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.6378	.0079	.0014	.0780	.3193	.2104	2.220	.3037	.0073
Stddev	.0006	.0000	.0001	.0003	.0009	.0001	.004	.0007	.0000
%RSD	.1010	.5593	8.642	.3947	.2725	.0488	.1738	.2461	.6255
#1	.6383	.0080	.0015	.0778	.3199	.2103	2.222	.3043	.0072
#2	.6374	.0079	.0013	.0782	.3187	.2104	2.217	.3032	.0073
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.3820	.5949	.0845	.0023	.4575	.0061	.0054	156.7	33.57
Stddev	.0009	.0009	.0004	.0004	.0013	.0049	.0001	.2	.08
%RSD	.2420	.1547	.4778	18.77	.2751	79.22	2.162	.1124	.2296
#1	.3827	.5943	.0848	.0026	.4566	.0096	.0055	156.8	33.52
#2	.3813	.5956	.0842	.0020	.4584	.0027	.0053	156.6	33.63
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	244.1	53.42	33.07	7.716	.1619	.0347	-0.0195	1.834	.0335
Stddev	.1	.11	.01	.012	.0009	.0001	.0004	.002	.0003
%RSD	.0319	.1999	.0271	.1551	.5822	.3797	1.846	.0851	1.042
#1	244.0	53.35	33.07	7.725	.1613	.0348	-.0198	1.835	.0337
#2	244.1	53.50	33.08	7.708	.1626	.0346	-.0193	1.833	.0332
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.5330	4.193	.0211	.1154	110.5	-0.083	.3414		
Stddev	.0010	.004	.0001	.0002	.0	.0001	.0014		
%RSD	.1857	.0957	.2774	.2089	.0132	.8225	.3958		
#1	.5323	4.196	.0211	.1153	110.5	-.0083	.3404		
#2	.5337	4.191	.0210	.1156	110.5	-.0084	.3423		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	94097.	13940.	1647.0	5283.8					
Stddev	5.	3.	.2	.9					
%RSD	.00514	.02354	.01235	.01667					
#1	94094.	13937.	1647.2	5284.4					
#2	94101.	13942.	1646.9	5283.2					

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Sample Name: jb67854-1 Acquired: 5/31/2014 2:15:49 Type: Unk
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: soil 11th

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.8796	.0017	.0048	.0254	.1706	.1922	1.720	.0762	.0057
Stddev	.0030	.0000	.0002	.0006	.0034	.0023	.026	.0000	.0002
%RSD	.3400	1.376	4.973	2.318	1.974	1.214	1.540	.0554	4.190
#1	.8775	.0017	.0047	.0250	.1730	.1938	1.739	.0762	.0055
#2	.8817	.0017	.0050	.0258	.1682	.1905	1.701	.0762	.0059
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.1220	1.160	.0180	-.0080	.7029	.0152	.0828	43.09	363.3
Stddev	.0011	.008	.0012	.0001	.0063	.0003	.0013	.09	.2
%RSD	.9094	.6671	6.646	1.570	.8916	1.758	1.520	.2013	.0626
#1	.1228	1.154	.0188	-.0079	.6985	.0150	.0819	43.03	363.1
#2	.1212	1.165	.0171	-.0081	.7074	.0154	.0837	43.15	363.5
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	79.95	79.23	3.692	10.83	.0360	.0378	-0.0152	3.625	.0795
Stddev	.42	.46	.004	.03	.0007	.0005	.0001	.034	.0013
%RSD	.5272	.5831	.1065	.2904	1.962	1.247	.6210	.9257	1.614
#1	79.66	78.90	3.689	10.81	.0355	.0375	-.0151	3.601	.0786
#2	80.25	79.55	3.695	10.86	.0365	.0381	-.0153	3.648	.0804
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.9767	2.532	.0120	.0452	3.161	.0020	.0419		
Stddev	.0028	.037	.0004	.0003	.023	.0004	.0003		
%RSD	.2832	1.460	3.380	.7715	.7273	18.18	.6037		
#1	.9748	2.558	.0117	.0454	3.145	.0018	.0417		
#2	.9787	2.506	.0123	.0449	3.178	.0023	.0421		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	90243.	13414.	1517.9	4840.8					
Stddev	1028.	88.	13.5	44.6					
%RSD	1.1395	.65236	.88942	.92222					
#1	89515.	13476.	1527.4	4872.3					
#2	90970.	13352.	1508.3	4809.2					

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Sample Name: jb67854-2 Acquired: 5/31/2014 2:22:04 Type: Unk
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: soil 11th

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.7039	.0016	.0035	.0159	.2855	.1448	1.275	.0521	.0050
Stddev	.0014	.0000	.0002	.0000	.0005	.0002	.002	.0008	.0000
%RSD	.1992	2.791	6.640	.2857	.1892	.1650	.1626	1.498	.0562
#1	.7049	.0016	.0033	.0159	.2851	.1446	1.274	.0526	.0050
#2	.7029	.0015	.0037	.0159	.2859	.1449	1.277	.0515	.0050
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0950	.9288	.0149	-.0076	1.179	.0145	.0313	35.79	351.1
Stddev	.0007	.0019	.0002	.0015	.003	.0026	.0012	.04	1.6
%RSD	.7564	.2021	1.365	20.01	.2396	18.23	3.896	.1112	4.534
#1	.0945	.9301	.0148	-.0065	1.177	.0126	.0304	35.82	352.3
#2	.0955	.9274	.0151	-.0087	1.181	.0163	.0321	35.76	350.0
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	48.50	35.41	3.329	9.953	.0322	.0437	-.0141	3.186	.0626
Stddev	.11	.11	.013	.030	.0003	.0001	.0004	.001	.0001
%RSD	.2333	.3160	.4003	.3053	.9463	.1339	2.993	.0446	.1756
#1	48.58	35.49	3.339	9.974	.0319	.0437	-.0144	3.187	.0627
#2	48.42	35.33	3.320	9.931	.0324	.0436	-.0138	3.185	.0625
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	1.124	1.901	.0098	.0393	3.669	.0005	.0405		
Stddev	.003	.004	.0008	.0001	.003	.0002	.0010		
%RSD	.2260	.2319	7.695	.1566	.0878	29.52	2.354		
#1	1.126	1.898	.0103	.0392	3.667	.0004	.0398		
#2	1.122	1.905	.0093	.0393	3.671	.0006	.0412		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	87271.	13201.	1533.7	4863.7					
Stddev	179.	14.	1.3	3.5					
%RSD	.20510	.10605	.08653	.07215					
#1	87397.	13211.	1532.8	4861.2					
#2	87144.	13191.	1534.7	4866.2					

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Sample Name: jb67898-1 Acquired: 5/31/2014 2:34:31 Type: Unk
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: soil 11th

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	1.758	.0034	.0017	.0441	.0906	.1786	1.999	.1073	.0052
Stddev	.001	.0001	.0002	.0004	.0002	.0002	.003	.0003	.0005
%RSD	.0596	1.906	10.54	.9119	.1657	.1193	.1491	.2377	8.634
#1	1.759	.0034	.0016	.0444	.0907	.1788	2.001	.1071	.0055
#2	1.757	.0033	.0019	.0438	.0905	.1785	1.997	.1075	.0049
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.1570	.4902	.0644	-.0020	.8987	.0171	.0035	43.75	176.6
Stddev	.0007	.0010	.0013	.0007	.0024	.0034	.0006	.11	.5
%RSD	.4483	.2075	2.027	33.99	.2694	19.70	15.79	.2417	.2692
#1	.1575	.4909	.0634	-.0025	.9004	.0195	.0032	43.83	176.9
#2	.1565	.4895	.0653	-.0015	.8970	.0148	.0039	43.68	176.2
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	109.6	28.38	9.389	2.486	.0266	.0050	-.0123	3.028	.0840
Stddev	.2	.06	.016	.004	.0001	.0002	.000	.0009	.0009
%RSD	.2250	.2200	.1650	.1484	.5458	4.142	1.302	.0049	1.090
#1	109.8	28.43	9.400	2.488	.0265	.0051	-.0124	3.028	.0834
#2	109.5	28.34	9.378	2.483	.0267	.0048	-.0122	3.028	.0847
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.3204	2.664	.0113	.0377	16.65	-.0029	.0868		
Stddev	.0004	.004	.0001	.0001	.03	.0007	.0003		
%RSD	.1149	.1619	.9885	.1373	.1929	24.82	.3817		
#1	.3201	2.667	.0113	.0377	16.63	-.0024	.0871		
#2	.3207	2.661	.0114	.0376	16.67	-.0034	.0866		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	90086.	13450.	1591.8	5171.3					
Stddev	123.	48.	.5	5.2					
%RSD	.13616	.35885	.03429	.10055					
#1	89999.	13415.	1592.2	5167.6					
#2	90173.	13484.	1591.4	5175.0					

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Sample Name: jb67854-3 Acquired: 5/31/2014 2:28:18 Type: Unk
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: soil 11th

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	2.551	.0020	.0055	.0218	.5110	.1920	1.638	.0709	.0060
Stddev	.005	.0000	.0002	.0002	.0010	.0000	.005	.0002	.0003
%RSD	.1915	2.367	2.957	1.013	.2037	.0080	.2834	.3475	4.393
#1	2.554	.0019	.0056	.0216	.5102	.1920	1.635	.0708	.0058
#2	2.547	.0020	.0054	.0219	.5117	.1920	1.642	.0711	.0062
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.1101	1.314	.0175	-.0124	2.249	.0174	.0407	44.76	427.0
Stddev	.0002	.004	.0020	.0022	.002	.0020	.0010	.08	5.2
%RSD	.1677	.3059	11.33	17.81	.1047	11.44	2.553	.1747	1.228
#1	.1099	1.311	.0161	-.0139	2.247	.0188	.0399	44.82	430.7
#2	.1102	1.317	.0189	-.0108	2.250	.0160	.0414	44.71	423.3
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	73.04	44.32	3.967	8.854	.0345	.0798	-.0157	2.887	.0810
Stddev	.45	.24	.000	.025	.0001	.0000	.0001	.005	.0007
%RSD	.6225	.5324	.0108	.2779	.4274	.0068	.6851	.1781	.8083
#1	73.37	44.48	3.967	8.871	.0346	.0798	-.0156	2.891	.0814
#2	72.72	44.15	3.967	8.836	.0344	.0799	-.0157	2.884	.0805
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	1.215	2.159	.0128	.0384	4.510	.0017	.0548		
Stddev	.005	.003	.0016	.0003	.006	.0001	.0001		
%RSD	.3863	.1208	12.83	.6591	.1324	3.153	.1183		
#1	1.218	2.158	.0117	.0382	4.505	.0017	.0548		
#2	1.212	2.161	.0140	.0385	4.514	.0017	.0548		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	88090.	13347.	1551.3	4850.5					
Stddev	229.	80.	3.0	3.3					
%RSD	.26015	.60166	.19246	.06801					
#1	88252.	13290.	1549.2	4848.2					
#2	87928.	13404.	1553.4	4852.9					

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Sample Name: ccv Acquired: 5/31/2014 2:40:41 Type: QC
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: 3

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.058	2.025	1.985	1.977	2.028	1.967	2.052	2.003	.2461
Stddev	.001	.001	.009	.007	.008	.007	.001	.008	.0010
%RSD	.0321	.0672	.4344	.3777	.4026	.3353	.0372	.3855	.3973
#1	2.059	2.024	1.979	1.971	2.034	1.963	2.053	1.998	.2454
#2	2.058	2.026	1.991	1.982	2.022	1.972	2.052	2.009	.2468
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.996	2.000	1.996	2.099	1.994	2.009	1.982	40.00	39.95
Stddev	.001	.009	.009	.003	.005	.003	.008	.02	.03
%RSD	.0726	.4470	.4579	.1579	.2404	.1497	.3917	.0389	.0668
#1	1.995	1.993	1.990	2.097	1.991	2.006	1.977	39.98	39.97
#2	1.997	2.006	2.003	2.102	1.997	2.011	1.988	40.01	39.93
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.26	39.67	41.42	40.72	2.011	2.011	1.967	4.996	2.038
Stddev	.05	.03	.01	.01	.010	.009	.005	.024	.011
%RSD	.1163	.0679	.0235	.0364	.4834	.4284	.2701	.4775	.5419
#1	40.30	39.69	41.42	40.73	2.004	2.005	1.963	4.979	2.030
#2	40.23	39.65	41.43	40.71	2.018	2.017	1.971	5.013	2.046
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

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Sample Name: ccv Acquired: 5/31/2014 2:40:41 Type: QC
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: 3

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.056	2.021	1.951	2.035	2.012	1.984	2.071
Stddev	.003	.001	.021	.001	.010	.014	.002
%RSD	.1247	.0258	1.051	.0427	.4857	.6809	.0715
#1	2.058	2.021	1.936	2.034	2.005	1.975	2.070
#2	2.054	2.022	1.965	2.035	2.019	1.994	2.072

Check ?
Value
Range

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	88751.	12990.	1562.3	5149.8
Stddev	31.	1.	6.5	18.4
%RSD	.03507	.00858	.41380	.35817
#1	88773.	12989.	1566.9	5162.8
#2	88729.	12991.	1557.7	5136.8

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Sample Name: ccb Acquired: 5/31/2014 2:46:44 Type: QC
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009	F_.0014	F_.0239	F_.0020	F_.0062	F_.0024	F_.0023
Stddev	.0002	.0001	.0018	.0001	.0004	.0002	.0013
%RSD	17.67	7.415	7.452	5.262	6.523	9.365	55.57
#1	.0008	.0015	.0251	.0019	.0059	.0022	.0014
#2	.0010	.0013	.0226	.0021	.0065	.0026	.0032

Check ?
High Limit
Low Limit

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	94736.	13400.	1647.6	5664.2
Stddev	238.	44.	4.9	17.7
%RSD	.25078	.33087	.29464	.31270
#1	94904.	13432.	1644.1	5651.7
#2	94568.	13369.	1651.0	5676.7

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[Zoom In](#)[Zoom Out](#)

Sample Name: ccb Acquired: 5/31/2014 2:46:44 Type: QC
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010	.0008	F_.0013	.0011	.0007	.0009	.0013	F_.0012	-.0001
Stddev	.0001	.0002	.0000	.0001	.0002	.0002	.0000	.0003	.0002
%RSD	4.916	19.43	.9425	5.032	30.33	21.62	3.925	27.96	244.2
#1	.0010	.0007	.0013	.0011	.0005	.0008	.0012	.0010	.0001
#2	.0011	.0009	.0013	.0012	.0008	.0011	.0013	.0015	-.0002

Check ?
High Limit
Low Limit

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0012	-.0001	.0014	.0009	.0005	.0013	.0016	.0285	.0135
Stddev	.0001	.0002	.0001	.0002	.0002	.0012	.0001	.0030	.0056
%RSD	6.370	187.1	7.705	18.39	41.29	88.06	8.845	11.33	41.36
#1	.0012	.0000	.0015	.0008	.0003	.0021	.0017	.0244	.0096
#2	.0011	-.0002	.0014	.0010	.0006	.0005	.0015	.0286	.0175

Check ?
High Limit
Low Limit

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F_.0253	.0304	.0285	.0122	.0030	F_.0030	.0008	.0097	.0013
Stddev	.0022	.0012	.0155	.0017	.0004	.0005	.0001	.0008	.0003
%RSD	8.642	3.915	54.22	13.79	12.66	17.84	15.78	7.929	20.78
#1	.0237	.0295	.0176	.0110	.0033	.0034	.0007	.0091	.0015
#2	.0268	.0312	.0395	.0134	.0028	.0026	.0009	.0102	.0012

Check ?
High Limit
Low Limit

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Sample Name: jb67898-2 Acquired: 5/31/2014 2:53:02 Type: Unk
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: soil 11th

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2803	.0032	.0004	.0322	.1934	.1088	1.688	.1038	.0075
Stddev	.0003	.0000	.0000	.0002	.0004	.0004	.002	.0003	.0001
%RSD	.1214	1.354	10.14	.6171	.2275	.3350	.0969	.3257	1.809
#1	.2800	.0031	.0005	.0320	.1931	.1086	1.687	.1035	.0074
#2	.2805	.0032	.0004	.0323	.1937	.1091	1.689	.1040	.0076

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2288	.2693	.0509	-.0005	.0986	.0105	.0040	91.24	16.94
Stddev	.0004	.0009	.0013	.0011	.0009	.0009	.0002	.21	.08
%RSD	.1951	.3219	2.582	238.1	.9182	8.539	5.090	.2302	.4734
#1	.2285	.2686	.0499	.0003	.0993	.0112	.0039	91.09	17.00
#2	.2291	.2699	.0518	-.0012	.0980	.0099	.0042	91.39	16.88

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.237.8	31.42	22.57	3.605	.1239	-.0008	-.0145	3.969	.0176
Stddev	.7	.15	.01	.007	.0003	.0002	.0003	.008	.0007
%RSD	.2816	4.750	.0301	.1872	.2427	22.32	2.155	.2014	3.803
#1	238.2	31.53	22.56	3.601	.1241	-.0007	-.0143	3.953	.0172
#2	237.3	31.32	22.57	3.610	.1237	-.0010	-.0147	3.965	.0181

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1556	2.565	.0289	.0809	14.57	-.0040	.1686
Stddev	.0005	.000	.0019	.0003	.06	.0013	.0002
%RSD	.3493	.0107	6.536	.3657	.4222	31.73	.1133
#1	.1560	2.565	.0302	.0811	14.53	-.0031	.1685
#2	.1552	2.565	.0276	.0807	14.62	-.0049	.1687

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	91632.	13507.	1628.2	5460.4
Stddev	29.	27.	1.7	1.7
%RSD	.03113	.19891	.10635	.03048
#1	91652.	13488.	1629.4	5459.2
#2	91611.	13526.	1627.0	5461.5

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Sample Name: mp79729-mb1conf				Acquired: 5/31/2014 2:59:10		Type: Unk			
Method: Accutest1(v93)				Mode: CONC		Corr. Factor: 1.000000			
User: admin		Custom ID1:		Custom ID2:		Custom ID3:			
Comment: water rerun 5th pb									
Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.0003	.0000	.0001	.0001	.0003	.0002	.0000	.0002	.0000
Stddev	.0001	.0000	.0000	.0001	.0004	.0002	.000	.0001	.000
%RSD	16.05	101.0	30.06	54.40	135.9	80.23	575.9	33.19	184.8
#1	.0003	.0000	.0001	.0001	.0006	.0004	.0000	.0002	.0000
#2	.0004	.0000	.0001	.0001	.0000	.0001	.0000	.0001	.0001
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0001	.0004	.0003	.0013	.0008	.0003	.0003	.0078	.0016
Stddev	.0002	.0000	.0001	.0008	.0011	.0011	.0018	.0018	.0010
%RSD	256.5	3.762	41.98	58.62	129.8	330.0	569.5	22.77	65.09
#1	.0001	.0004	.0002	.0008	.0016	.0004	.0010	.0066	.0023
#2	.0003	.0003	.0003	.0018	.0001	.0011	.0016	.0091	.0009
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0013	.0254	.0013	.0111	.0006	.0007	.0004	.0124	.0007
Stddev	.0002	.0018	.0056	.0023	.0002	.0002	.0000	.0017	.0000
%RSD	14.30	7.235	425.3	20.64	25.80	22.94	1.373	13.55	5.920
#1	.0011	.0241	.0026	.0127	.0005	.0008	.0004	.0112	.0007
#2	.0014	.0267	.0053	.0094	.0007	.0006	.0004	.0136	.0006
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0001	.0005	.0142	.0007	.0051	.0009	.0008		
Stddev	.0000	.0004	.0005	.0000	.0015	.0003	.0001		
%RSD	36.04	71.34	3.490	3.604	29.43	33.49	12.40		
#1	.0001	.0007	.0146	.0007	.0062	.0007	.0007		
#2	.0000	.0002	.0139	.0007	.0041	.0011	.0009		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	94257.	13411.	1649.9	5710.0					
Stddev	131.	44.	.4	3.5					
%RSD	.13939	.33021	.02560	.06155					
#1	94164.	13380.	1650.2	5712.5					
#2	94350.	13442.	1649.6	5707.5					
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Sample Name: jb67626-18f				Acquired: 5/31/2014 3:11:49		Type: Unk			
Method: Accutest1(v93)				Mode: CONC		Corr. Factor: 2.000000			
User: admin		Custom ID1:		Custom ID2:		Custom ID3:			
Comment: water rerun 5th pb									
Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.0526	.0001	.0003	.0164	.0007	.0020	4.017	.0036	.0035
Stddev	.0002	.0001	.0004	.0000	.0004	.0005	.009	.0007	.0000
%RSD	.4362	53.49	125.9	.0633	54.33	27.61	.2269	18.84	.1344
#1	.0528	.0001	.0000	.0164	.0004	.0016	4.011	.0041	.0035
#2	.0525	.0001	.0005	.0164	.0009	.0024	4.023	.0031	.0035
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0013	.0018	.0668	.0001	.0057	.0096	.0005	.0090	55.20
Stddev	.0001	.0002	.0015	.0013	.0005	.0012	.0032	.0129	.35
%RSD	4.993	12.46	2.211	1703.	8.998	12.07	706.0	143.4	.6311
#1	.0014	.0016	.0657	.0008	.0054	.0088	.0018	.0180	55.45
#2	.0013	.0019	.0678	.0010	.0061	.0104	.0027	.0001	54.95
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	76.03	54.20	2.524	42.83	.0024	.0020	.0027	19.79	.0030
Stddev	.49	.32	.050	.12	.0017	.0002	.0011	.04	.0000
%RSD	.6506	.5871	1.993	.2792	71.98	10.04	41.70	.2208	.2548
#1	76.38	54.42	2.560	42.92	.0036	.0021	.0035	19.82	.0030
#2	75.68	53.97	2.489	42.75	.0012	.0018	.0019	19.76	.0030
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.2481	.0009	.0186	.0073	93.95	.0014	.0110		
Stddev	.0012	.0002	.0027	.0002	.21	.0003	.0007		
%RSD	.4860	25.33	14.74	2.792	.2184	18.16	6.646		
#1	.2490	.0007	.0206	.0074	94.09	.0012	.0105		
#2	.2473	.0010	.0167	.0071	93.80	.0016	.0116		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	91160.	13355.	1575.6	5382.0					
Stddev	137.	15.	2.1	12.4					
%RSD	.15056	.10917	.13038	.23080					
#1	91257.	13345.	1577.0	5390.8					
#2	91063.	13365.	1574.1	5373.2					
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Sample Name: jb67626-14fconf				Acquired: 5/31/2014 3:05:29		Type: Unk			
Method: Accutest1(v93)		Mode: CONC		Corr. Factor: 2.000000					
User: admin		Custom ID1:		Custom ID2:		Custom ID3:			
Comment: water rerun 5th pb									
Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.4097	.0003	.0007	.0015	.0019	.0017	.9264	.0018	.0014
Stddev	.0016	.0001	.0001	.0001	.0006	.0004	.0044	.0001	.0002
%RSD	.3855	20.39	12.08	8.338	33.57	23.19	.4750	3.181	16.42
#1	.4086	.0002	.0006	.0014	.0015	.0014	.9233	.0017	.0016
#2	.4108	.0003	.0007	.0016	.0024	.0020	.9295	.0018	.0013
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0003	.0036	.0002	.0005	.0018	.0096	.0002	.0312	264.1
Stddev	.0004	.0000	.0000	.0024	.0003	.0006	.0006	.0195	.6
%RSD	135.7	.6415	30.71	481.2	18.12	5.948	247.5	62.63	.2281
#1	.0006	.0036	.0002	.0012	.0020	.0100	.0006	.0174	263.6
#2	.0000	.0036	.0001	.0022	.0016	.0092	.0002	.0450	264.5
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	1.392	61.38	14.95	544.6	.1329	.0024	.0071	11.91	.0062
Stddev	.002	.17	.03	9.0	.0004	.0002	.0022	.09	.0003
%RSD	.1224	.2700	.1943	1.660	.2931	8.939	31.17	.7160	4.709
#1	1.390	61.26	14.93	551.0	.1327	.0025	.0086	11.97	.0064
#2	1.393	61.50	14.97	538.2	.1332	.0022	.0055	11.85	.0060
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	1.305	.0023	.0187	.0106	99.25	.0012	.0545		
Stddev	.005	.0003	.0002	.0003	.87	.0004	.0010		
%RSD	.3537	12.11	1.076	2.701	.8761	30.68	1.884		
#1	1.302	.0021	.0188	.0108	99.86	.0010	.0538		
#2	1.308	.0025	.0186	.0104	98.63	.0015	.0553		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	85211.	12971.	1492.3	4822.6					
Stddev	392.	9.	6.1	11.3					
%RSD	.45969	.06892	.40611	.23351					
#1	85488.	12977.	1488.0	4814.7					
#2	84934.	12964.	1496.6	4830.6					
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Sample Name: jb67707-2										Acquired: 5/31/2014 3:24:08		Type: Unk	
Method: Accutest1(v93)										Mode: CONC		Corr. Factor: 1.000000	
User: admin			Custom ID1:			Custom ID2:			Custom ID3:				
Comment: soil 6th pb only													
Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280				
Avg	.9650	.0069	.0025	.0897	.2160	.1556	3.174	.1967	.0057				
Stddev	.0026	.0000	.0000	.0002	.0005	.0013	.001	.0001	.0002				
%RSD	.2675	.2842	1.855	.1951	.2107	.8033	.0236	.0337	3.211				
#1	.9632	.0069	.0024	.0895	.2163	.1565	3.174	.1968	.0055				
#2	.9668	.0069	.0025	.0898	.2157	.1548	3.175	.1967	.0058				
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179				
Avg	.2732	1.878	.0333	.0036	.6475	.0068	.0057	135.8	23.44				
Stddev	.0003	.003	.0005	.0002	.0017	.0013	.0010	.4	.01				
%RSD	.1008	.1573	1.366	6.362	.2583	18.51	18.31	.2698	.0261				
#1	.2734	1.876	.0330	.0038	.6463	.0059	.0050	135.6	23.43				
#2	.2730	1.881	.0336	.0035	.6487	.0077	.0064	136.1	23.44				
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899				
Avg	.219.2	53.54	23.42	2.356	.1324	-.0050	-.0162	3.252	.0231				
Stddev	.3	.15	.07	.004	.0006	.0000	.0003	.003	.0008				
%RSD	.1335	.2740	.3079	.1904	.4847	.8138	2.042	.1005	3.559				
#1	.219.0	53.44	23.36	2.353	.1320	-.0050	-.0164	3.250	.0237				
#2	.219.4	53.65	23.47	2.360	.1329	-.0050	-.0159	3.254	.0225				

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Sample Name: jb67707-9					Acquired: 5/31/2014 3:36:24		Type: Unk			
Method: Accutest1(v93)					Mode: CONC		Corr. Factor: 1.000000			
User: admin		Custom ID1:		Custom ID2:		Custom ID3:				
Comment: soil 6th pb only										
Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280	
Avg	2.157	.0104	.0013	.1039	.2449	.1482	4.523	.2738	.0069	
Stddev	.000	.0001	.0001	.0005	.0004	.0003	.028	.0011	.0001	
%RSD	.0077	.5518	10.50	.5190	.1810	.1849	.6072	.4136	1.518	
#1	2.157	.0103	.0012	.1035	.2446	.1480	4.543	.2746	.0070	
#2	2.157	.0104	.0014	.1042	.2452	.1484	4.504	.2730	.0068	
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179	
Avg	.2774	.9236	.0283	.0049	.1597	.0059	.0048	152.5	19.17	
Stddev	.0005	.0006	.0009	.0012	.0002	.0019	.0001	.1	.02	
%RSD	.1640	.0602	3.174	24.53	.1259	32.61	3.118	.0724	.1123	
#1	.2777	.9240	.0276	.0040	.1598	.0045	.0049	152.6	19.19	
#2	.2771	.9232	.0289	.0057	.1595	.0072	.0047	152.4	19.16	
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899	
Avg	270.7	74.87	33.78	2.742	.1646	-.0082	-.0206	2.976	.0171	
Stddev	.1	.07	.01	.006	.0015	.0002	.0006	.009	.0002	
%RSD	.0313	.0950	.0259	.2055	.9073	1.896	2.700	.3151	.9013	
#1	270.8	74.82	33.77	2.746	.1657	-.0083	-.0202	2.983	.0170	
#2	270.6	74.92	33.78	2.738	.1636	-.0081	-.0210	2.969	.0172	
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707			
Avg	.1522	4.152	.0236	.0766	.5115	-.0071	.4637			
Stddev	.0003	.001	.0001	.0001	.0034	.0013	.0006			
%RSD	.1687	.0340	.2286	.1559	.6700	17.95	.1223			
#1	.1523	4.153	.0236	.0766	.5090	-.0081	.4633			
#2	.1520	4.151	.0235	.0767	.5139	-.0062	.4641			
Int. Std.	Y_3600	Y_3710	Y_2243	In2306						
Avg	95666.	14059.	1700.0	5374.2						
Stddev	94.	16.	1.5	7.7						
%RSD	.09793	.11330	.08780	.14382						
#1	95732.	14070.	1699.0	5379.7						
#2	95599.	14047.	1701.1	5368.7						

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Sample Name: jb67707-3										Acquired: 5/31/2014 3:30:14		Type: Unk	
Method: Accutest1(v93)										Mode: CONC		Corr. Factor: 1.000000	
User: admin			Custom ID1:			Custom ID2:			Custom ID3:				
Comment: soil 6th pb only													
Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280				
Avg	.0815	.0055	.0001	.0169	.2059	.0128	.1387	.0278	.0079				
Stddev	.0001	.0000	.0001	.0007	.0001	.0004	.0012	.0006	.0001				
%RSD	.0777	.1117	144.5	4.180	.0270	3.311	.8655	2.277	1.172				
#1	.0815	.0055	.0000	.0164	.2060	.0125	.1396	.0273	.0079				
#2	.0816	.0055	.0002	.0174	.2059	.0131	.1379	.0282	.0080				
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179				
Avg	.2749	.1777	.0658	-.0012	.0406	.0093	.0039	49.78	1.250				
Stddev	.0017	.0020	.0006	.0004	.0012	.0022	.0014	.06	.002				
%RSD	.6277	1.146	.8477	33.21	3.045	23.37	36.18	.1115	.1817				
#1	.2761	.1763	.0662	-.0015	.0397	.0109	.0049	49.82	1.252				
#2	.2737	.1792	.0654	-.0009	.0414	.0078	.0029	49.74	1.249				
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899				
Avg	270.8	5.873	17.78	.3049	.1404	-.0112	-.0117	3.128	.0156				
Stddev	.3	.028	.03	.0029	.0022	.0004	.0002	.025	.0007				
%RSD	.1221	.4810	.1648	.9489	1.565	3.260	1.462	.7988	4.400				
#1	271.0	5.853	17.81	.3028	.1389	-.0110	-.0118	3.110	.0161				
#2	270.6	5.892	17.76	.3069	.1420	-.0115	-.0115	3.145	.0151				
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707						
Avg	.0347	.9336	.0203	.0336	.3500	.0017	.0224						
Stddev	.0001	.0059	.0000	.0001	.0012	.0005	.0011						
%RSD	.1765	.6321	.1206	.3940	.3433	28.47	5.033						
#1	.0347	.9378	.0203	.0337	.3508	.0014	.0232						
#2	.0346	.9295	.0203	.0335	.3491	.0021	.0216						
Int. Std.	Y_3600	Y_3710	Y_2243	In2306									
Avg	92658.	13448.	1654.5	5655.9									
Stddev	518.	52.	13.6	37.1									
%RSD	.55954	.38425	.82061	.65525									
#1	92291.	13411.	1664.1	5682.1									
#2	93024.	13484.	1644.9	5629.7									

Sample Name: jb67707-15 Acquired: 5/31/2014 3:48:46 Type: Unk
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: soil 6th pb only

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	1.921	.0121	.0016	.1209	.2354	.1532	5.197	.3431	.0055
Stddev	.001	.0001	.0001	.0005	.0007	.0002	.032	.0000	.0002
%RSD	.0585	.5230	6.777	.4127	.2904	.1143	.6062	.0016	4.403
#1	1.920	.0121	.0017	.1212	.2358	.1533	5.174	.3431	.0054
#2	1.922	.0120	.0015	.1205	.2349	.1531	5.219	.3431	.0057
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.2758	1.883	.0303	.0021	.1605	.0049	.0055	144.0	27.53
Stddev	.0000	.001	.0003	.0011	.0000	.0006	.0017	.2	.15
%RSD	.0159	.0671	.8337	50.97	.0226	12.04	30.36	.1069	.5609
#1	.2757	1.884	.0305	.0013	.1606	.0053	.0067	143.9	27.64
#2	.2758	1.882	.0301	.0029	.1605	.0045	.0044	144.1	27.42
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	261.4	77.68	32.68	4.672	.1630	-.0074	-.0193	2.904	.0142
Stddev	1.0	.52	.06	.001	.0009	.0002	.0007	.011	.0004
%RSD	.3773	.6677	.1954	.0288	.5393	3.118	3.415	.3854	2.726
#1	262.1	78.05	32.63	4.671	.1636	-.0072	-.0188	2.896	.0144
#2	260.7	77.32	32.72	4.673	.1624	-.0075	-.0197	2.912	.0139
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.2419	3.816	.0249	.0698	.9615	-.0060	.4595		
Stddev	.0004	.002	.0020	.0005	.0015	.0001	.0002		
%RSD	.1622	.0454	7.953	.7544	.1571	2.391	.0512		
#1	.2422	3.817	.0235	.0694	.9604	-.0059	.4596		
#2	.2416	3.815	.0263	.0702	.9626	-.0061	.4593		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	98008.	14435.	1760.7	5401.3					
Stddev	22.	49.	3.1	3.8					
%RSD	.02256	.33702	.17331	.06983					
#1	98024.	14400.	1762.8	5398.7					
#2	97992.	14469.	1758.5	5404.0					

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Sample Name: ccv Acquired: 5/31/2014 3:55:00 Type: QC
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: 4

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.980	1.983	1.895	1.986	1.954	1.918	2.012
Stddev	.002	.008	.021	.007	.009	.003	.003
%RSD	.0915	.4095	1.129	.3536	.4563	.1612	.1460
#1	1.979	1.988	1.880	1.991	1.947	1.916	2.014
#2	1.982	1.977	1.910	1.981	1.960	1.920	2.010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							
Int. Std.	Y_3600	Y_3710	Y_2243	In2306			
Units	Cts/S	Cts/S	Cts/S	Cts/S			
Avg	90511.	13084.	1618.1	5291.5			
Stddev	232.	40.	5.2	5.3			
%RSD	.25682	.30611	.31942	.10098			
#1	90346.	13056.	1621.7	5295.2			
#2	90675.	13112.	1614.4	5287.7			

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Sample Name: ccv Acquired: 5/31/2014 3:55:00 Type: QC
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: 4

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.001	1.986	1.934	1.938	1.979	1.932	2.022	1.967	.2413
Stddev	.002	.005	.005	.003	.006	.008	.007	.003	.0003
%RSD	.1127	.2327	.2860	.1769	.3007	.4173	.3580	.1336	.1449
#1	2.003	1.989	1.930	1.936	1.983	1.938	2.027	1.965	.2415
#2	1.999	1.982	1.938	1.941	1.975	1.926	2.017	1.969	.2410
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.982	1.967	1.932	2.049	1.966	1.938	1.918	39.51	38.87
Stddev	.010	.005	.006	.005	.002	.006	.006	.25	.03
%RSD	.4904	.2562	.3388	.2708	.0857	.2884	.3025	.6204	.0741
#1	1.989	1.964	1.927	2.053	1.967	1.934	1.914	39.68	38.85
#2	1.975	1.971	1.936	2.045	1.965	1.942	1.922	39.34	38.89
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	39.03	38.73	40.78	40.08	1.942	1.958	1.923	4.834	1.985
Stddev	.06	.08	.15	.15	.006	.006	.008	.008	.005
%RSD	.1490	.1991	.3652	.3847	.3225	.3046	.4372	.1603	.2299
#1	38.99	38.79	40.88	40.19	1.937	1.953	1.929	4.829	1.982
#2	39.07	38.68	40.67	39.97	1.946	1.962	1.917	4.839	1.988
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

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Sample Name: ccb Acquired: 5/31/2014 4:01:04 Type: QC
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011	.0009	F_ .0010	.0009	.0007	.0006	.0011	F_ .0014	.0000
Stddev	.0000	.0000	.0002	.0000	.0002	.0002	.0000	.0003	.0000
%RSD	2.621	2.631	14.53	3.208	20.86	39.54	2.243	21.09	50.61
#1	.0010	.0008	.0009	.0008	.0008	.0004	.0011	.0012	.0000
#2	.0011	.0009	.0011	.0009	.0006	.0007	.0011	.0016	-.0001
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit			.0006					.0010	
Low Limit			-.0006					-.0010	
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011	-.0002	.0016	F_ .0025	.0023	.0014	.0015	F_ .0313	.0172
Stddev	.0001	.0003	.0006	.0004	.0005	.0010	.0005	.0075	.0009
%RSD	11.25	141.9	40.56	15.17	20.26	69.17	30.14	24.02	5.275
#1	.0012	-.0005	.0011	.0023	.0019	.0007	.0018	.0260	.0179
#2	.0010	.0000	.0021	.0028	.0026	.0021	.0012	.0367	.0166
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				.0020				.0312	
Low Limit				-.0020				-.0312	
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F_ .0283	.0279	.0338	.0186	.0030	F_ .0028	.0015	.0082	.0009
Stddev	.0020	.0083	.0042	.0040	.0002	.0005	.0002	.0001	.0001
%RSD	6.977	29.59	12.55	21.36	5.350	18.61	15.63	1.799	7.716
#1	.0269	.0221	.0368	.0158	.0032	.0031	.0017	.0081	.0009
#2	.0297	.0337	.0308	.0214	.0029	.0024	.0014	.0083	.0010
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit	.0100					.0020			
Low Limit	-.0100					-.0020			

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Sample Name: ccb Acquired: 5/31/2014 4:01:04 Type: QC							
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000							
User: admin Custom ID1: Custom ID2: Custom ID3:							
Comment:							
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009	F .0012	F .0244	F .0020	.0040	.0015	F .0025
Stddev	.0001	.0001	.0022	.0001	.0007	.0005	.0002
%RSD	8.287	8.341	8.907	3.623	17.08	35.54	6.521
#1	.0010	.0013	.0259	.0020	.0045	.0011	.0026
#2	.0009	.0012	.0228	.0019	.0035	.0019	.0023
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail
High Limit	.0010	.0123	.0010	.0010	.0010	.0010	.0020
Low Limit		-.0010	-.0123	-.0010			-.0020
Int. Std.	Y_3600	Y_3710	Y_2243	In2306			
Units	Cts/S	Cts/S	Cts/S	Cts/S			
Avg	94283.	13143.	1674.2	5732.9			
Stddev	124.	5.	11.9	27.8			
%RSD	.13157	.03958	.71174	.48480			
#1	94370.	13147.	1665.8	5713.2			
#2	94195.	13139.	1682.6	5752.5			

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Sample Name: cri Acquired: 5/31/2014 4:07:25 Type: QC							
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000							
User: admin Custom ID1: Custom ID2: Custom ID3:							
Comment:							
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0109	.0116	F .0767	F .0132	.0527	.0209	.0243
Stddev	.0002	.0001	.0001	.0001	.0020	.0012	.0002
%RSD	1.860	.5791	.1240	.7078	3.829	5.783	.7613
#1	.0111	.0116	.0768	.0133	.0541	.0217	.0241
#2	.0108	.0115	.0766	.0132	.0512	.0200	.0244
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value			.0500	.0100			
Range			30.00%	30.00%			
Int. Std.	Y_3600	Y_3710	Y_2243	In2306			
Units	Cts/S	Cts/S	Cts/S	Cts/S			
Avg	93507.	13023.	1673.8	5671.3			
Stddev	506.	70.	.3	2.3			
%RSD	.54131	.53612	.01838	.04087			
#1	93865.	12973.	1673.5	5673.0			
#2	93149.	13072.	1674.0	5669.7			

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Sample Name: cri Acquired: 5/31/2014 4:07:25 Type: QC										
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000										
User: admin Custom ID1: Custom ID2: Custom ID3:										
Comment:										
Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280	
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.2079	.0024	.0034	.0498	.0113	.0096	.0165	.0102	.0047	
Stddev	.0028	.0000	.0001	.0003	.0002	.0001	.0001	.0001	.0005	
%RSD	1.345	1.809	1.994	.6327	1.591	1.422	.4211	1.189	10.21	
#1	.2099	.0024	.0034	.0496	.0112	.0095	.0165	.0101	.0051	
#2	.2059	.0024	.0033	.0501	.0114	.0097	.0166	.0103	.0044	
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	
Value										
Range										
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179	
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.0526	.0216	.0093	.0094	.0037	.0108	.0071	.2085	5.122	
Stddev	.0006	.0000	.0004	.0014	.0009	.0007	.0006	.0111	.061	
%RSD	1.076	.0031	4.504	14.72	23.93	6.630	8.023	5.317	1.186	
#1	.0522	.0216	.0096	.0085	.0043	.0113	.0075	.2163	5.165	
#2	.0530	.0216	.0090	.0104	.0031	.0103	.0067	.2006	5.079	
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	
Value										
Range										
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899	
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.1087	5.313	5.321	5.091	.1017	.0217	.0550	.2051	.0109	
Stddev	.0001	.052	.040	.063	.0004	.0003	.0002	.0003	.0001	
%RSD	.0971	.9846	.7469	1.245	.4412	1.602	.3283	.1272	1.318	
#1	.1088	5.350	5.349	5.136	.1021	.0220	.0552	.2049	.0110	
#2	.1086	5.276	5.293	5.046	.1014	.0215	.0549	.2053	.0108	
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	
Value										
Range										

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Sample Name: crid Acquired: 5/31/2014 4:13:40 Type: QC										
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000										
User: admin Custom ID1: Custom ID2: Custom ID3:										
Comment:										
Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280	
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.0046	.0011	.0012	.0030	.0020	.0018	.0034	.0043	.0007	
Stddev	.0001	.0000	.0001	.0000	.0000	.0001	.0001	.0001	.0001	
%RSD	2.294	3.863	6.995	.0087	1.383	7.823	2.276	2.092	19.11	
#1	.0045	.0011	.0012	.0030	.0020	.0019	.0034	.0044	.0008	
#2	.0047	.0011	.0011	.0030	.0020	.0017	.0033	.0043	.0006	
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	
Value										
Range										
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179	
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.0022	.0104	.0033	F .0032	.0030	F .0076	.0031	.1154	1.030	
Stddev	.0003	.0000	.0000	.0004	.0010	.0008	.0002	.0033	.001	
%RSD	13.15	.1190	.3438	13.54	33.44	10.53	5.466	2.834	.1193	
#1	.0020	.0104	.0033	.0029	.0037	.0081	.0032	.1131	1.030	
#2	.0024	.0104	.0033	.0035	.0023	.0070	.0030	.1177	1.029	
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	
Value				.0020		.0050				
Range				30.00%		30.00%				
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899	
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.0053	.1125	2.191	1.038	.0108	.0004	.0009	.0006	.0002	
Stddev	.0033	.0066	.009	.002	.0003	.0000	.0000	.0001	.0001	
%RSD	62.23	5.852	.4059	.2164	3.138	11.80	4.979	19.70	60.26	
#1	.0030	.1079	2.198	1.039	.0111	.0004	.0009	.0005	.0003	
#2	.0077	.1172	2.185	1.036	.0106	.0003	.0009	.0007	.0001	
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	None	None	None	
Value										
Range										

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Sample Name: crid Acquired: 5/31/2014 4:13:40 Type: QC
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0003	.0101	.0005	.0009	-.0002	.0010
Stddev	.0001	.0003	.0005	.0001	.0012	.0005	.0000
%RSD	32.17	91.05	4.589	19.56	129.8	185.1	3.802

#1	.0001	.0001	.0104	.0005	.0017	-.0006	.0009
#2	.0002	.0005	.0098	.0006	.0001	.0001	.0010

Check ? Value Range
None None None None None None None None

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	93780.	12931.	1683.6	5737.6
Stddev	143.	2.	1.0	7.2
%RSD	.15197	.01514	.05873	.12558

#1	93679.	12930.	1684.2	5732.5
#2	93880.	12933.	1682.8	5742.7

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Sample Name: cria Acquired: 5/31/2014 4:19:58 Type: QC
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0004	.0082	.0004	.0028	.0005	.0009
Stddev	.0000	.0001	.0003	.0001	.0020	.0003	.0004
%RSD	24.14	35.96	3.090	21.85	70.82	57.69	49.17

#1	.0001	.0003	.0080	.0003	.0014	.0007	.0006
#2	.0001	.0005	.0084	.0004	.0042	.0003	.0012

Check ? Value Range
None None None None None None None None

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	93030.	12850.	1689.2	5769.7
Stddev	53.	26.	17.0	52.4
%RSD	.05653	.20274	1.0093	.90803

#1	92993.	12868.	1677.1	5732.8
#2	93067.	12831.	1701.2	5806.8

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[Zoom In](#)[Zoom Out](#)

Sample Name: cria Acquired: 5/31/2014 4:19:58 Type: QC
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0000	.0002	.0000	-.0001	-.0004	.0000	.0001	-.0002
Stddev	.0001	.0001	.0000	.0002	.0002	.0001	.0000	.0001	.0001
%RSD	45.26	633.3	24.27	7233.	214.1	26.46	149.6	125.4	39.52

#1	.0002	.0000	.0002	.0001	-.0002	-.0005	.0000	.0000	-.0003
#2	.0004	.0001	.0001	-.0001	.0000	-.0004	.0000	.0002	-.0002

Check ? Value Range
None None None None None None None None None

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	-.0008	.0194	-.0013	.0209	.0216	.0197	.5255	.0045
Stddev	.0003	.0000	.0005	.0001	.0015	.0004	.0007	.0087	.0021
%RSD	353.2	4.566	2.370	8.476	7.167	1.881	3.493	1.651	46.53

#1	-.0001	-.0008	.0191	-.0014	.0198	.0213	.0202	.5317	.0030
#2	.0003	-.0007	.0198	-.0012	.0219	.0219	.0192	.5194	.0060

Check ? Value Range
None None Chk Pass None Chk Pass Chk Pass Chk Pass Chk Pass None

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5426	.0219	.0043	-.0122	.0004	.0004	.0004	-.0012	-.0003
Stddev	.0017	.0268	.0157	.0009	.0006	.0002	.0013	.0005	.0004
%RSD	.3114	122.4	361.3	7.733	152.4	36.29	330.6	41.16	169.3

#1	.5438	.0409	-.0067	-.0128	.0008	.0006	.0013	-.0016	.0001
#2	.5414	.0029	.0154	-.0115	.0000	.0003	-.0005	-.0009	-.0006

Check ? Value Range
Chk Pass None None None None None None None None

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Sample Name: Ticonf Acquired: 5/31/2014 4:26:18 Type: Unk
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0002	.0005	-.0043	.0003	-.0009	-.0009	-.0013	.0003
Stddev	.0001	.0001	.0002	.0003	.0000	.0003	.0000	.0001	.0003
%RSD	25.01	25.71	40.51	6.881	14.09	32.53	4.125	5.155	82.44

#1	.0004	.0003	.0006	-.0041	.0003	-.0007	-.0009	-.0012	.0006
#2	.0002	.0002	.0003	-.0046	.0003	-.0010	-.0009	-.0013	.0001

Check ? Value Range
None None None None None None None None None

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0034	.0042	.0023	.0007	.0012	.0004	.0020	.0911	.0104
Stddev	.0001	.0001	.0001	.0012	.0005	.0009	.0003	.0028	.0028
%RSD	3.813	2.193	2.524	168.8	43.16	219.0	14.08	3.090	27.21

#1	.0035	.0042	.0023	-.0001	.0015	-.0002	.0018	.0891	.0084
#2	.0033	.0043	.0024	.0015	.0008	.0010	.0022	.0931	.0124

Check ? Value Range
None None None None None None None None None

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0124	.0012	.0124	-.0104	.0019	-.0025	-.0053	.0166	-.0062
Stddev	.0026	.0056	.0189	.0012	.0001	.0001	.0003	.0006	.0010
%RSD	21.33	452.7	152.2	11.79	3.002	4.126	6.480	3.362	16.11

#1	.0105	.0052	-.0009	-.0095	.0019	-.0026	-.0055	.0170	-.0055
#2	.0143	-.0027	.0258	-.0113	.0019	-.0025	-.0050	.0162	-.0069

Check ? Value Range
None None None None None None None None None

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	9.884	.0085	.0093	.0031	-.0175	.0014
Stddev	.0001	.011	.0017	.0006	.0004	.0001	.0002
%RSD	38.27	.1063	19.98	6.716	14.04	.5544	16.36

#1	.0001	9.876	.0097	.0097	.0028	-.0174	.0016
#2	.0002	9.891	.0073	.0088	.0034	-.0176	.0012

Check ? Value Range
None None None None None None None None

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	94869.	12937.	1660.2	5702.6
Stddev	254.	17.	4.2	7.7
%RSD	.26777	.13204	.25431	.13553

#1	95049.	12949.	1657.2	5697.1
#2	94689.	12925.	1663.2	5708.0

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Sample Name: Sroconf		Acquired: 5/31/2014 4:38:58		Type: Unk		Zoom Out			
Method: Accutest1(v93)		Mode: CONC		Corr. Factor: 1.000000					
User: admin		Custom ID1:		Custom ID2:		Custom ID3:			
Comment:									
Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.0002	.0000	.0007	-.0001	-.0002	-.0003	.0000	.0000	-.0002
Stddev	.0000	.0000	.0001	.0001	.0001	.0000	.000	.0001	.0000
%RSD	15.89	67.24	11.04	172.7	51.45	9.279	132.5	311.4	16.27
#1	.0003	.0000	.0006	-.0001	-.0003	-.0003	-.0001	-.0001	-.0001
#2	.0002	.0000	.0007	.0000	-.0001	-.0003	.0000	.0001	-.0002
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0000	-.0005	.0003	.0106	.0001	.0008	.0004	.0054	-.0015
Stddev	.000	.0000	.0002	.0002	.0006	.0003	.0001	.0014	.0005
%RSD	7.638	1.619	95.74	1.601	444.5	37.37	23.07	25.90	30.37
#1	.0000	-.0005	.0004	.0105	.0006	.0010	.0005	.0044	-.0019
#2	.0000	-.0005	.0001	.0107	-.0003	.0006	.0004	.0064	-.0012
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0002	.0255	.0090	-.0141	.0004	.0000	.0010	.0025	-.0001
Stddev	.0008	.0151	.0165	.0018	.0003	.0001	.0002	.0003	.0003
%RSD	332.5	59.46	184.3	12.61	89.16	198.1	22.06	13.56	359.8
#1	-.0003	.0362	.0206	-.0153	.0001	.0000	.0012	.0027	.0001
#2	.0008	.0148	-.0027	-.0128	.0006	.0001	.0008	.0023	-.0003
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	9.632	.0003	.0043	.0002	.0035	.0001	.0014		
Stddev	.007	.0003	.0000	.0001	.0015	.0008	.0003		
%RSD	.0734	103.7	.8707	47.77	43.98	626.9	18.23		
#1	9.627	.0001	.0043	.0002	.0045	-.0004	.0012		
#2	9.637	.0006	.0042	.0001	.0024	.0007	.0016		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	93899.	12925.	1663.5	5716.8					
Stddev	223.	36.	4.7	2.9					
%RSD	.23761	.27803	.28340	.05010					
#1	93741.	12950.	1666.8	5718.9					
#2	94057.	12899.	1660.2	5714.8					
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Sample Name: ccv		Acquired: 5/31/2014 4:51:42				Type: QC			
Method: Accutest1(v93)		Mode: CONC		Corr. Factor: 1.000000					
User: admin		Custom ID1:		Custom ID2:		Custom ID3:			
Comment: 5									
Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.990	1.980	1.920	1.935	1.995	1.937	2.041	1.969	2.429
Stddev	.023	.023	.004	.005	.001	.007	.004	.003	.0009
%RSD	1.171	1.153	.1927	.2551	.0624	.3552	.1742	.1662	.3533
#1	1.974	1.963	1.917	1.932	1.996	1.932	2.038	1.966	.2423
#2	2.006	1.996	1.923	1.939	1.994	1.942	2.043	1.971	.2435
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.995	1.979	1.915	2.033	1.973	1.917	1.901	39.16	39.16
Stddev	.010	.006	.011	.014	.004	.004	.008	.50	.50
%RSD	.5130	.3022	.5597	.6954	.1772	.2322	.4146	1.288	1.278
#1	1.988	1.975	1.907	2.023	1.970	1.914	1.896	38.80	38.81
#2	2.003	1.983	1.923	2.043	1.975	1.920	1.907	39.51	39.51
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	39.20	39.04	40.58	39.93	1.920	1.952	1.929	4.787	1.971
Stddev	.48	.50	.47	.47	.006	.007	.003	.018	.007
%RSD	1.227	1.276	1.165	1.167	.3389	.3359	.1399	.3802	.3382
#1	38.86	38.69	40.25	39.60	1.915	1.947	1.927	4.775	1.967
#2	39.54	39.39	40.92	40.26	1.925	1.956	1.931	4.800	1.976
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

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Sample Name: ccv Acquired: 5/31/2014 4:51:42 Type: QC
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: 5

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.984	1.995	1.884	1.992	1.931	1.896	2.001
Stddev	.021	.002	.025	.000	.013	.005	.024
%RSD	1.083	.0995	1.299	.0062	.6496	.2886	1.190
#1	1.969	1.994	1.867	1.992	1.922	1.892	1.984
#2	1.999	1.997	1.901	1.992	1.940	1.900	2.018

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	90378.	13079.	1637.7	5326.6
Stddev	208.	186.	.9	1.1
%RSD	22968	1.4240	.05735	.02124
#1	90524.	13211.	1638.3	5325.8
#2	90231.	12948.	1637.0	5327.4

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Sample Name: ccb Acquired: 5/31/2014 4:57:46 Type: QC
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0012	.0009	F .0013	.0011	.0004	.0006	.0011	F .0011	-.0002
Stddev	.0001	.0000	.0001	.0002	.0000	.0000	.0000	.0001	.0002
%RSD	7.780	4.552	4.154	14.97	11.43	1.101	2.023	8.833	85.40
#1	.0012	.0008	.0013	.0012	.0004	.0006	.0011	.0012	-.0001
#2	.0013	.0009	.0014	.0009	.0005	.0006	.0011	.0010	-.0004

Check ? Chk Pass Chk Pass Chk Fail Chk Pass Chk Pass Chk Pass Chk Pass Chk Fail Chk Pass
High Limit .0006
Low Limit -.0006

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0012	-.0001	.0018	F .0021	.0010	.0016	.0012	.0271	.0154
Stddev	.0001	.0001	.0000	.0002	.0011	.0014	.0004	.0042	.0019
%RSD	11.35	149.2	1.929	7.368	113.5	85.53	34.93	15.60	12.55
#1	.0013	.0000	.0018	.0020	.0002	.0006	.0015	.0301	.0141
#2	.0011	-.0002	.0018	.0022	.0018	.0026	.0009	.0241	.0168

Check ? Chk Pass Chk Pass Chk Pass Chk Fail Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit .0020
Low Limit -.0020

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0282	.0393	.0585	.0045	.0025	F .0032	.0007	.0084	.0010
Stddev	.0016	.0077	.0127	.0058	.0005	.0005	.0003	.0007	.0001
%RSD	5.673	19.55	21.62	127.2	21.78	14.57	36.91	8.727	10.73
#1	.0293	.0339	.0675	.0005	.0029	.0035	.0005	.0079	.0011
#2	.0270	.0448	.0496	.0086	.0021	.0028	.0009	.0090	.0009

Check ? Chk Fail Chk Pass Chk Pass Chk Pass Chk Pass Chk Fail Chk Pass Chk Pass Chk Pass
High Limit .0100
Low Limit -.0100

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Sample Name: ccb Acquired: 5/31/2014 4:57:46 Type: QC
Method: Accutest1(v93) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010	F .0013	F .0257	F .0020	.0026	.0012	F .0027
Stddev	.0001	.0000	.0015	.0001	.0008	.0006	.0003
%RSD	8.008	.6529	5.708	5.923	32.59	53.50	10.54
#1	.0009	.0013	.0268	.0019	.0020	.0016	.0025
#2	.0010	.0013	.0247	.0021	.0032	.0007	.0029

Check ? Chk Pass Chk Fail Chk Fail Chk Fail Chk Pass Chk Pass Chk Fail
High Limit .0010 .0123 .0010
Low Limit -.0010 -.0123 -.0010

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	94938.	12975.	1675.6	5748.9
Stddev	472.	102.	6.2	11.7
%RSD	.49679	.78731	.37269	.20414
#1	94604.	13047.	1680.0	5757.2
#2	95271.	12903.	1671.2	5740.6

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Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
Ba 455.403 { 74}	☒	3	Mg	0.000000	0.000000	No
			Al	0.000002	0.000000	No
			Zr	0.001000	0.000000	No
Be 313.042 {108}	☒	12	V	0.000535	0.000000	No
			Mo	-0.000040	0.000000	No
			Ti	-0.000252	0.000000	No
			Mn	0.000016	0.000000	No
			Ba	-0.000013	0.000000	No
			Zn	0.000010	0.000000	No
			Sb	0.000079	0.000000	No
			Ag	0.000060	0.000000	No
			Sn	0.000010	0.000000	No
			Cu	0.000005	0.000000	No
			W	0.000000	0.000000	No
			K	-0.000020	0.000000	No
Cd 228.802 {448}	☒	16	As	0.002500	0.000000	No
			Ni	-0.000550	0.000000	No
			Fe	0.000017	0.000000	No
			Ba	0.000070	0.000000	No
			Co	-0.000224	0.000000	No
			Zn	0.000072	0.000000	No
			Al	-0.000002	0.000000	No
			Mg	0.000000	0.000000	No
			Ca	0.000002	0.000000	No
			Mn	-0.000014	0.000000	No
			Mo	0.000002	0.000000	No
			Ti	-0.000049	0.000000	No
			Cu	-0.000010	0.000000	No
			Sr	-0.000050	0.000000	No
			Zr	0.000000	0.000000	No
			W	0.000000	0.000000	No
Co 228.616 {448}	☒	7	Fe	-0.000001	0.000000	No
			Cr	0.000000	0.000000	No
			Ba	0.000006	0.000000	No
			Ca	-0.000002	0.000000	No
			Mg	-0.000002	0.000000	No
			Ti	0.002270	0.000000	No
			Mo	-0.000300	0.000000	No
Cr 267.716 {126}	☒	9	Mn	0.000130	0.000000	No
			Mo	-0.000153	0.000000	No
			Fe	-0.000004	0.000000	No
			Co	0.000160	0.000000	No
			Al	0.000000	0.000000	No
			Sn	-0.000070	0.000000	No
			Ti	-0.000058	0.000000	No
			Ca	0.000001	0.000000	No
Cu 324.754 {104}2	☒	12	W	0.001783	0.000000	No
			Cr	-0.000025	0.000000	No
			Mo	0.000702	0.000000	No
			Ti	-0.000143	0.000000	No
			Mn	0.000086	0.000000	No
			Co	-0.000957	0.000000	No
			Zn	0.000037	0.000000	No
			Fe	-0.000114	0.000000	No
			Zr	0.000100	0.000000	No
			V	-0.000050	0.000000	No
			Ca	-0.000005	0.000000	No
			Ni	-0.000020	0.000000	No
Mn 257.610 {131}	☒	6	W	0.000000	0.000000	No
			Fe	-0.000066	0.000000	No
			Ti	0.000095	0.000000	No

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
			Si	0.000150	0.000000	No
			Mo	-0.000160	0.000000	No
			As	0.000400	0.000000	No
			W	0.000000	0.000000	No
Ni 231.604 {446}	☒	8	Cr	-0.000028	0.000000	No
			Mo	-0.000065	0.000000	No
			Fe	0.000020	0.000000	No
			Zn	0.000017	0.000000	No
			Co	-0.000423	0.000000	No
			Cu	0.000152	0.000000	No
			Ti	0.000120	0.000000	No
			W	-0.000260	0.000000	No
Ag 328.068 {103}	☒	17	Mn	0.000142	0.000000	No
			Mo	-0.000012	0.000000	No
			Ti	-0.000070	0.000000	No
			V	-0.001200	0.000000	No
			Zr	0.010000	0.000000	No
			Sb	-0.000013	0.000000	No
			Mg	0.000004	0.000000	No
			Ca	-0.000008	0.000000	No
			Fe	-0.000235	0.000000	No
			Al	0.000003	0.000000	No
			Zn	0.000000	0.000000	No
			Ba	0.000090	0.000000	No
			Ni	-0.000021	0.000000	No
			Cr	0.000005	0.000000	No
			As	-0.000089	0.000000	No
			B	0.000001	0.000000	No
			W	0.005000	0.000000	No
V 292.402 {115}	☒	6	Fe	0.000032	0.000000	No
			Ti	0.000320	0.000000	No
			Mo	-0.008350	0.000000	No
			Co	0.000139	0.000000	No
			Cr	-0.003870	0.000000	No
			Mn	-0.000100	0.000000	No
Zn 206.200 {464}	☒	15	Cr	-0.000700	0.000000	No
			Mo	-0.000350	0.000000	No
			Fe	-0.000005	0.000000	No
			Co	0.000122	0.000000	No
			Ni	0.000058	0.000000	No
			Se	0.000141	0.000000	No
			Ba	-0.000005	0.000000	No
			Ca	0.000003	0.000000	No
			Ti	-0.000085	0.000000	No
			Sn	0.000068	0.000000	No
			V	-0.000170	0.000000	No
			Sr	0.000000	0.000000	No
			Al	0.000004	0.000000	No
			Bi	-0.001125	0.000000	No
			Si	0.000600	0.000000	No
As 189.042 {478}	☒	20	Al	0.000015	0.000000	No
			Fe	-0.000012	0.000000	No
			Ca	0.000002	0.000000	No
			Mn	-0.000070	0.000000	No
			Mo	0.002710	0.000000	No
			Cr	0.000600	0.000000	No
			Co	0.000010	0.000000	No
			Si	-0.000009	0.000000	No
			Cu	-0.000074	0.000000	No
			Pd	0.033140	0.000000	No
			K	0.000000	0.000000	No

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
			Mg	0.000004	0.000000	No
			Cd	-0.000016	0.000000	No
			Sn	0.000067	0.000000	No
			Zn	-0.000115	0.000000	No
			Zr	0.000000	0.000000	No
			Sb	0.000022	0.000000	No
			Ti	-0.000203	0.000000	No
			B	0.000001	0.000000	No
			S	-0.000001	0.000000	No
Tl 190.856 (477)	☒	27	Cr	0.000483	0.000000	No
			Mo	-0.011000	0.000000	No
			Al	-0.000016	0.000000	No
			V	-0.037500	0.000000	No
			Mn	0.000490	0.000000	No
			Si	0.000073	0.000000	No
			Ca	0.000038	0.000000	No
			Ti	-0.001000	0.000000	No
			Cu	-0.000095	0.000000	No
			Co	0.012300	0.000000	No
			Sr	-0.001000	0.000000	No
			Zn	0.000620	0.000000	No
			Pb	0.000310	0.000000	No
			Mg	-0.000001	0.000000	No
			Ba	0.000000	0.000000	No
			Sb	0.000004	0.000000	No
			W	0.000000	0.000000	No
			B	0.000567	0.000000	No
			Pd	-0.000032	0.000000	No
			Ni	0.000030	0.000000	No
			Sn	0.000100	0.000000	No
			Fe	-0.000093	0.000000	No
			Li	0.000009	0.000000	No
			S	-0.000010	0.000000	No
			Na	-0.000001	0.000000	No
			K	0.000000	0.000000	No
			As	0.000200	0.000000	No
Pb 220.353 (453)	☒	22	Al	-0.000096	0.000000	No
			Ca	0.000010	0.000000	No
			Mn	-0.000060	0.000000	No
			Zn	-0.000173	0.000000	No
			Mo	-0.000950	0.000000	No
			Ni	0.000129	0.000000	No
			Cu	0.000370	0.000000	No
			V	-0.000206	0.000000	No
			Co	0.000016	0.000000	No
			Ti	0.000000	0.000000	No
			Si	0.000060	0.000000	No
			Mg	0.000002	0.000000	No
			K	0.000000	0.000000	No
			Pd	0.000500	0.000000	No
			Sb	0.000109	0.000000	No
			Cr	-0.000066	0.000000	No
			Sn	0.000070	0.000000	No
			Fe	0.000043	0.000000	No
			W	0.000000	0.000000	No
			Zr	0.000000	0.000000	No
			S	-0.000022	0.000000	No
			Sr	-0.000035	0.000000	No
Se 196.090 (472)	☒	17	Al	-0.000022	0.000000	No
			Ca	-0.000039	0.000000	No
			Mn	0.000345	0.000000	No

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
			Mo	-0.000038	0.000000	No
			Co	-0.000140	0.000000	No
			Cu	-0.000107	0.000000	No
			Mg	0.000007	0.000000	No
			Ti	0.000000	0.000000	No
			Sb	-0.000010	0.000000	No
			Zn	-0.000010	0.000000	No
			Fe	-0.000126	0.000000	No
			Si	-0.000317	0.000000	No
			B	-0.000043	0.000000	No
			Ba	0.000050	0.000000	No
			S	0.000010	0.000000	No
			W	0.065000	0.000000	No
			Zr	-0.000833	0.000000	No
Sb 206.833 {463}	☒	19	Fe	0.000010	0.000000	No
			Al	0.000005	0.000000	No
			Ca	-0.000003	0.000000	No
			Ni	-0.000078	0.000000	No
			Cr	0.011440	0.000000	No
			V	-0.002240	0.000000	No
			Zn	-0.000104	0.000000	No
			Mo	0.000420	0.000000	No
			Ti	0.000160	0.000000	No
			Sn	-0.015034	0.000000	No
			Mn	-0.000060	0.000000	No
			Co	-0.000121	0.000000	No
			Se	-0.000252	0.000000	No
			Zr	-0.000300	0.000000	No
			W	0.000000	0.000000	No
			Sr	0.000000	0.000000	No
			Si	0.000000	0.000000	No
			Mg	0.000006	0.000000	No
			S	-0.000016	0.000000	No
Al 396.152 { 85}	☒	8	Ca	0.000100	0.000000	No
			Mo	0.049000	0.000000	No
			Ti	-0.006610	0.000000	No
			Si	0.001149	0.000000	No
			Co	-0.000115	0.000000	No
			Li	-0.001000	0.000000	No
			W	0.000000	0.000000	No
			Ba	0.004500	0.000000	No
Ca 317.933 {106}	☒	5	Al	0.000043	0.000000	No
			Fe	0.000078	0.000000	No
			Mg	0.000071	0.000000	No
			Ti	-0.000042	0.000000	No
			Co	0.001850	0.000000	No
Fe 259.940 {130}	☒	11	Cr	0.000237	0.000000	No
			Zn	0.000466	0.000000	No
			Al	0.000017	0.000000	No
			Co	0.002732	0.000000	No
			Cd	0.000700	0.000000	No
			Sn	-0.000019	0.000000	No
			Ti	-0.000710	0.000000	No
			Si	0.000053	0.000000	No
			Ca	0.000012	0.000000	No
			Ba	0.000400	0.000000	No
			V	0.000000	0.000000	No
Mg 279.079 {121}	☒	4	Al	0.000000	0.000000	No
			Mo	-0.018810	0.000000	No
			Pb	0.000002	0.000000	No
			Fe	0.000000	0.000000	No

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
K 766.490 { 44}	☒	1	Mg	0.000000	0.000000	No
Na 589.592 { 57}	☒	1	Al	0.000039	0.000000	No
B 208.959 {462}	☒	4	Mo	0.037450	0.000000	No
			Al	0.000008	0.000000	No
			Ti	-0.000001	0.000000	No
			Pd	0.000630	0.000000	No
Mo 202.030 {467}	☒	8	Ti	0.000300	0.000000	No
			Pd	0.000018	0.000000	No
			Al	-0.000011	0.000000	No
			Mg	-0.000005	0.000000	No
			Ca	0.000000	0.000000	No
			Fe	0.000044	0.000000	No
			V	0.000500	0.000000	No
			W	-0.004932	0.000000	No
Pd 340.458 { 99}	☒	8	Ti	-0.000250	0.000000	No
			Co	-0.001657	0.000000	No
			Sn	-0.000700	0.000000	No
			Sb	0.000160	0.000000	No
			Si	0.000010	0.000000	No
			Fe	0.000000	0.000000	No
			Mo	-0.000260	0.000000	No
			Zr	-0.009667	0.000000	No
Si 212.412 {459}	☒	11	Mn	-0.002280	0.000000	No
			Fe	-0.000005	0.000000	No
			Ca	0.000003	0.000000	No
			Ni	0.000391	0.000000	No
			Cd	0.001794	0.000000	No
			Cr	-0.000450	0.000000	No
			Mo	0.020000	0.000000	No
			Ti	0.058400	0.000000	No
			Ba	0.000825	0.000000	No
			Sn	0.003490	0.000000	No
			W	-0.005803	0.000000	No
Sn 189.989 {478}	☒	4	Ti	-0.000460	0.000000	No
			Fe	0.000007	0.000000	No
			Mn	0.000406	0.000000	No
			Mo	0.000058	0.000000	No
Sr 407.771 { 83}	☒	3	Ca	0.000032	0.000000	No
			Pd	0.000168	0.000000	No
			Ti	0.000000	0.000000	No
Ti 334.904 {101}	☒	4	Cr	0.000189	0.000000	No
			Mo	0.000620	0.000000	No
			Zr	0.000002	0.000000	No
			W	-0.005996	0.000000	No
Y 360.073 { 94}* Y 371.030 { 91}* Y 224.306 {451}* In 230.606 {446}* W 207.911 {462}	☒ ☒ ☒ ☒ ☒	None None None None 4				
			Al	-0.000024	0.000000	No
			V	0.001000	0.000000	No
			Zn	0.010800	0.000000	No
			Fe	-0.000050	0.000000	No
Zr 339.198 { 99}	☒	16	Fe	-0.000058	0.000000	No
			Si	0.000088	0.000000	No
			Ba	-0.000049	0.000000	No
			Sn	0.000047	0.000000	No
			Sb	-0.000067	0.000000	No
			V	0.000030	0.000000	No
			W	0.000500	0.000000	No
			S	-0.000097	0.000000	No
			Ti	0.000032	0.000000	No

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
			Mg	-0.000008	0.000000	No
			Al	-0.000027	0.000000	No
			Ca	-0.000000	0.000000	No
			Li	0.000038	0.000000	No
			Bi	0.000163	0.000000	No
			Ag	0.004400	0.000000	No
			Mn	0.000059	0.000000	No
S 182.034 {485}	☒	6	Ca	0.000065	0.000000	No
			Mo	0.001000	0.000000	No
			Al	0.000072	0.000000	No
			Fe	-0.000029	0.000000	No
			Mn	0.003600	0.000000	No
			W	-0.038955	0.000000	No
Bi 223.061 {451}	☒	2	Fe	0.000038	0.000000	No
			Ti	-0.001522	0.000000	No
Li 670.784 { 50}	☒	None				

Element, Wavelength and Order	Date of Fit	Date of Cal.	Type of Fit	Weighting	A0	A1	A2	n (Exponent)
Ba 455.403 { 74}	6/2/2014 10:20:06	5/30/2014 10:33:57	Linear	1/Conc	0.004227	3.130322	0.000000	1.000000
Be 313.042 {108}	6/2/2014 10:20:06	5/30/2014 10:33:57	Linear	1/Conc	-0.000060	2.649672	0.000000	1.000000
Cd 228.802 {448}	6/2/2014 10:20:06	5/30/2014 10:33:57	Linear	1/Conc	0.000671	1.266255	0.000000	1.000000
Co 228.616 {448}	6/2/2014 10:20:06	5/30/2014 10:33:57	Linear	1/Conc	-0.000219	0.380277	0.000000	1.000000
Cr 267.716 {126}	6/2/2014 10:20:06	5/30/2014 10:33:57	Linear	1/Conc	0.000035	0.076187	0.000000	1.000000
Cu 324.754 {104}2	6/2/2014 10:20:06	5/30/2014 10:33:57	Linear	1/Conc	0.001944	0.274814	0.000000	1.000000
Mn 257.610 {131}	6/2/2014 10:20:06	5/30/2014 10:33:57	Linear	1/Conc	0.000040	0.197335	0.000000	1.000000
Ni 231.604 {446}	6/2/2014 10:20:06	5/30/2014 10:33:57	Linear	1/Conc	-0.000970	0.292481	0.000000	1.000000
Ag 328.068 {103}	6/2/2014 10:20:06	5/30/2014 10:33:57	Linear	1/Conc	0.000029	0.131650	0.000000	1.000000
V 292.402 {115}	6/2/2014 10:20:06	5/30/2014 10:33:57	Linear	1/Conc	-0.000111	0.145171	0.000000	1.000000
Zn 206.200 {464}	6/2/2014 10:20:06	5/30/2014 10:33:57	Linear	1/Conc	0.001331	0.956878	0.000000	1.000000
As 189.042 {478}	6/2/2014 10:20:06	5/30/2014 10:33:57	Linear	1/Conc	0.000010	0.207884	0.000000	1.000000
Tl 190.856 {477}	6/2/2014 10:20:06	5/30/2014 10:33:57	Linear	1/Conc	-0.000234	0.039896	0.000000	1.000000
Pb 220.353 {453}	6/2/2014 10:20:06	5/30/2014 10:33:57	Linear	1/Conc	-0.000280	0.129469	0.000000	1.000000
Se 196.090 {472}	6/2/2014 10:20:06	5/30/2014 10:33:57	Linear	1/Conc	0.000500	0.117736	0.000000	1.000000
Sb 206.833 {463}	6/2/2014 10:20:06	5/30/2014 10:33:57	Linear	1/Conc	0.000855	0.288285	0.000000	1.000000
Al 396.152 { 85}	6/2/2014 10:20:06	5/30/2014 10:33:57	Linear	1/Conc	0.000386	0.046295	0.000000	1.000000
Ca 317.933 {106}	6/2/2014 10:20:06	5/30/2014 10:33:57	Linear	1/Conc	0.004559	0.064474	0.000000	1.000000
Fe 259.940 {130}	6/2/2014 10:20:06	5/30/2014 10:33:57	Linear	1/Conc	0.000061	0.037582	0.000000	1.000000
Mg 279.079 {121}	6/2/2014 10:20:06	5/30/2014 10:33:57	Linear	1/Conc	-0.000036	0.004902	0.000000	1.000000
K 766.490 { 44}	6/2/2014 10:20:06	5/30/2014 10:33:57	Linear	1/Conc	-0.000272	0.028438	0.000000	1.000000
Na 589.592 { 57}	6/2/2014 10:20:06	5/30/2014 10:33:57	Linear	1/Conc	0.003268	0.099068	0.000000	1.000000
B 208.959 {462}	6/2/2014 10:20:06	5/30/2014 10:33:57	Linear	1/Conc	0.000811	0.293292	0.000000	1.000000
Mo 202.030 {467}	6/2/2014 10:20:06	5/30/2014 10:33:57	Linear	1/Conc	0.000586	1.154951	0.000000	1.000000
Pd 340.458 { 99}	6/2/2014 10:20:06	5/30/2014 10:33:57	Linear	1/Conc	-0.000043	0.063671	0.000000	1.000000
Si 212.412 {459}	6/2/2014 10:20:06	5/30/2014 10:33:57	Linear	1/Conc	0.007603	0.322919	0.000000	1.000000
Sn 189.989 {478}	6/2/2014 10:20:06	5/30/2014 10:33:57	Linear	1/Conc	0.000522	0.190114	0.000000	1.000000
Sr 407.771 { 83}	6/2/2014 10:20:06	5/30/2014 10:33:57	Linear	1/Conc	-0.000708	4.267666	0.000000	1.000000
Ti 334.904 {101}	6/2/2014 10:20:06	5/30/2014 10:33:57	Linear	1/Conc	-0.000155	0.159263	0.000000	1.000000
Y 360.073 { 94}*	6/2/2014 10:20:06	5/1/2013 13:59:18	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
Y 371.030 { 91}*	6/2/2014 10:20:06	5/1/2013 13:59:18	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
Y 224.306 {451}*	6/2/2014 10:20:06	5/1/2013 13:59:18	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
In 230.606 {446}*	6/2/2014 10:20:06	5/1/2013 13:59:18	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
W 207.911 {462}	6/2/2014 10:20:06	5/30/2014 10:33:57	Linear	1/Conc	0.001547	0.527578	0.000000	1.000000
Zr 339.198 { 99}	6/2/2014 10:20:06	5/30/2014 10:33:57	Linear	1/Conc	-0.000283	0.387257	0.000000	1.000000
S 182.034 {485}	6/2/2014 10:20:06	5/30/2014 10:33:57	Linear	1/Conc	0.000581	0.087461	0.000000	1.000000
Bi 223.061 {451}	6/2/2014 10:20:06	5/30/2014 10:33:57	Linear	1/Conc	-0.001181	0.416942	0.000000	1.000000
Li 670.784 { 50}	6/2/2014 10:20:06	5/30/2014 10:33:57	Linear	1/Conc	-0.001686	0.832346	0.000000	1.000000

Element, Wavelength and Order	Correlation	Std Error of Est	Predicted MDL	Predicted MQL	Status	Reslope		QC Norm	
						Slope	Y-int	Slope factor	Offset
Ba 455.403 { 74 }	1.000000	0.000000	0.000168	0.000560	OK.	1.000000	0.000000	1	0
Be 313.042 {108 }	1.000000	0.000000	0.000068	0.000226	OK.	1.000000	0.000000	1	0
Cd 228.802 {448 }	1.000000	0.000000	0.000193	0.000644	OK.	1.000000	0.000000	1	0
Co 228.616 {448 }	1.000000	0.000000	0.000294	0.000979	OK.	1.000000	0.000000	1	0
Cr 267.716 {126 }	1.000000	0.000000	0.000435	0.001448	OK.	1.000000	0.000000	1	0
Cu 324.754 {104}2	1.000000	0.000000	0.000308	0.001027	OK.	1.000000	0.000000	1	0
Mn 257.610 {131 }	1.000000	0.000000	0.000061	0.000205	OK.	1.000000	0.000000	1	0
Ni 231.604 {446 }	1.000000	0.000000	0.000350	0.001166	OK.	1.000000	0.000000	1	0
Ag 328.068 {103 }	1.000000	0.000000	0.000416	0.001386	OK.	1.000000	0.000000	1	0
V 292.402 {115 }	1.000000	0.000000	0.000318	0.001059	OK.	1.000000	0.000000	1	0
Zn 206.200 {464 }	1.000000	0.000000	0.000223	0.000742	OK.	1.000000	0.000000	1	0
As 189.042 {478 }	1.000000	0.000000	0.000969	0.003229	OK.	1.000000	0.000000	1	0
Tl 190.856 {477 }	1.000000	0.000000	0.001930	0.006432	OK.	1.000000	0.000000	1	0
Pb 220.353 {453 }	1.000000	0.000000	0.001183	0.003944	OK.	1.000000	0.000000	1	0
Se 196.090 {472 }	1.000000	0.000000	0.002074	0.006915	OK.	1.000000	0.000000	1	0
Sb 206.833 {463 }	1.000000	0.000000	0.001057	0.003523	OK.	1.000000	0.000000	1	0
Al 396.152 { 85 }	1.000000	0.000000	0.008210	0.027366	OK.	1.000000	0.000000	1	0
Ca 317.933 {106 }	1.000000	0.000000	0.003175	0.010582	OK.	1.000000	0.000000	1	0
Fe 259.940 {130 }	1.000000	0.000000	0.002648	0.008827	OK.	1.000000	0.000000	1	0
Mg 279.079 {121 }	1.000000	0.000000	0.025730	0.085768	OK.	1.000000	0.000000	1	0
K 766.490 { 44 }	1.000000	0.000000	0.027788	0.092625	OK.	1.000000	0.000000	1	0
Na 589.592 { 57 }	1.000000	0.000000	0.007396	0.024654	OK.	1.000000	0.000000	1	0
B 208.959 {462 }	1.000000	0.000000	0.000661	0.002202	OK.	1.000000	0.000000	1	0
Mo 202.030 {467 }	1.000000	0.000000	0.000226	0.000755	OK.	1.000000	0.000000	1	0
Pd 340.458 { 99 }	1.000000	0.000000	0.001064	0.003545	OK.	1.000000	0.000000	1	0
Si 212.412 {459 }	1.000000	0.000000	0.000893	0.002975	OK.	1.000000	0.000000	1	0
Sn 189.989 {478 }	1.000000	0.000000	0.000866	0.002886	OK.	1.000000	0.000000	1	0
Sr 407.771 { 83 }	1.000000	0.000000	0.000077	0.000257	OK.	1.000000	0.000000	1	0
Ti 334.904 {101 }	1.000000	0.000000	0.000411	0.001371	OK.	1.000000	0.000000	1	0
Y 360.073 { 94 }*	0.000000	0.000000	0.000796	0.002654	Warnin	1.000000	0.000000	1	0
Y 371.030 { 91 }*	0.000000	0.000000	0.002186	0.007287	Warnin	1.000000	0.000000	1	0
Y 224.306 {451}*	0.000000	0.000000	0.004215	0.014050	Warnin	1.000000	0.000000	1	0
In 230.606 {446}*	0.000000	0.000000	-1.000000	-1.000000	Warnin	1.000000	0.000000	1	0
W 207.911 {462 }	1.000000	0.000000	0.001045	0.003484	OK.	1.000000	0.000000	1	0
Zr 339.198 { 99 }	1.000000	0.000000	0.000170	0.000567	OK.	1.000000	0.000000	1	0
S 182.034 {485 }	1.000000	0.000000	0.002297	0.007658	OK.	1.000000	0.000000	1	0
Bi 223.061 {451 }	1.000000	0.000000	0.000993	0.003309	OK.	1.000000	0.000000	1	0
Li 670.784 { 50 }	1.000000	0.000000	0.000918	0.003059	OK.	1.000000	0.000000	1	0

Sample Name: STDA Acquired: 6/2/2014 11:38:50 Type: Cal
Method: Accutest1(v88) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0007	.0002	.0009	-.0003	.0000	.0030	.0001	.0016	.0000
Stddev	.0003	.0002	.0000	.0001	.0000	.0000	.0000	.0000	.000
%RSD	38.74	83.37	4.955	38.73	2.367	1.252	10.57	2.706	123.3

#1	.0005	.0003	.0009	-.0004	.0000	.0030	.0001	.0016	.0000
#2	.0009	.0001	.0009	-.0002	.0000	.0029	.0001	.0016	.0000

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.0001	.0004	-.0006	-.0004	-.0001	.0009	.0009	-.0001	.0065
Stddev	.0000	.0001	.0000	.0000	.0000	.0001	.0000	.0001	.0000
%RSD	6.087	14.62	5.956	2.323	6.110	5.663	.6419	205.6	.0802

#1	-.0001	.0004	-.0006	-.0004	-.0001	.0010	.0009	.0000	.0065
#2	-.0001	.0004	-.0006	-.0004	-.0001	.0009	.0009	-.0001	.0065

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0002	-.0001	-.0012	-.0003	.0006	.0015	-.0001	.0074	.0003
Stddev	.0000	.0000	.0004	.0002	.0000	.0001	.0000	.0007	.0000
%RSD	19.58	9.976	29.86	53.72	1.354	7.057	57.10	9.209	8.578

#1	.0002	-.0001	-.0014	-.0002	.0006	.0016	.0000	.0069	.0004
#2	.0002	-.0001	-.0009	-.0004	.0006	.0015	-.0001	.0079	.0003

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S		
Avg	-.0006	-.0002	.0097	.0001	-.0029	-.0023	.0006		
Stddev	.0001	.0000	.0004	.0000	.0000	.0002	.0002		
%RSD	10.25	8.702	4.224	8.398	1.101	7.485	28.04		

#1	-.0006	-.0002	.0100	.0001	-.0029	-.0025	.0007		
#2	-.0005	-.0002	.0095	.0001	-.0028	-.0022	.0005		

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Sample Name: STDB Acquired: 6/2/2014 11:44:52 Type: Cal
Method: Accutest1(v88) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5.380	12.54	4.324	1.682	2.861	9.329	1.550	1.315	.0552
Stddev	.009	.01	.013	.003	.0001	.0003	.006	.001	.0001
%RSD	.1700	.0507	.2988	.1893	.0424	.0270	.3821	.0459	.0928

#1	5.373	12.54	4.315	1.680	.2860	.9327	1.554	1.315	.0553
#2	5.386	12.54	4.333	1.684	.2862	.9331	1.545	1.316	.0552

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.4796	3.448	.6557	.1751	.5498	.4382	.8838	2.156	4.951
Stddev	.0003	.005	.0024	.0010	.0000	.0010	.0028	.002	.001
%RSD	.0542	.1469	.3675	.5776	.0054	.2333	.3160	.1066	.0175

#1	.4794	3.445	.6540	.1744	.5497	.4375	.8818	2.154	4.951
#2	.4798	3.452	.6574	.1758	.5498	.4389	.8858	2.157	4.952

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3.414	4.384	1.237	4.990	8.686	3.886	1.604	2.884	7.062
Stddev	.005	.0002	.002	.012	.0038	.013	.0002	.012	.0013
%RSD	.1348	.0461	.1742	.2452	.4353	.3392	.1260	.4069	.1895

#1	3.410	.4383	1.236	4.981	.8659	3.877	.1603	2.876	.7053
#2	3.417	.4385	1.239	4.998	.8713	3.895	.1606	2.892	.7072

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S		
Avg	9.994	.4992	1.748	1.040	.2230	1.259	1.981		
Stddev	.018	.0002	.012	.001	.0001	.004	.004		
%RSD	.1776	.0460	.6577	.0539	.0565	.3531	.2006		

#1	10.01	.4990	1.740	1.039	.2230	1.256	1.979		
#2	9.982	.4994	1.756	1.040	.2231	1.262	1.984		

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Sample Name: STDA Acquired: 6/2/2014 11:38:50 Type: Cal
Method: Accutest1(v88) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	171420.	34966.	2363.6	6520.7
Stddev	81.	27.	6.9	3.9
%RSD	.04732	.07726	.28997	.06048

#1	171360.	34947.	2368.4	6523.5
#2	171480.	34985.	2358.7	6517.9

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Sample Name: STDB Acquired: 6/2/2014 11:44:52 Type: Cal
Method: Accutest1(v88) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	161380.	33188.	2198.2	5956.7
Stddev	14.	31.	9.7	16.9
%RSD	.00896	.09441	.44059	.28310

#1	161390.	33165.	2205.1	5968.6
#2	161370.	33210.	2191.4	5944.7

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Sample Name: ccvconf Acquired: 6/2/2014 11:50:58 Type: QC									
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000									
User: admin Custom ID1: Custom ID2: Custom ID3:									
Comment:									
Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.037	2.104	2.006	2.008	2.030	1.962	2.113	2.038	2.427
Stddev	.059	.054	.004	.002	.004	.003	.001	.005	.0008
%RSD	2.917	2.556	.2031	.0753	.1961	.1451	.0596	.2408	.3267
#1	2.079	2.142	2.003	2.007	2.028	1.964	2.112	2.034	2.433
#2	1.995	2.066	2.009	2.009	2.033	1.960	2.114	2.041	2.422
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.087	2.049	1.997	2.054	2.030	1.980	1.987	40.56	40.98
Stddev	.002	.006	.001	.003	.002	.003	.004	1.14	.88
%RSD	.0790	.2877	.1891	.1241	.1159	.1398	.1963	2.809	2.136
#1	2.085	2.045	1.994	2.052	2.028	1.978	1.985	41.36	41.60
#2	2.088	2.053	2.000	2.056	2.032	1.982	1.990	39.75	40.36
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	41.20	40.64	40.37	40.75	1.977	2.022	1.951	4.927	2.033
Stddev	.97	.97	1.16	1.16	.003	.006	.000	.010	.005
%RSD	2.365	2.388	2.867	2.858	.1554	.3140	.0145	.2066	.2624
#1	41.89	41.33	41.19	41.57	1.974	2.017	1.951	4.920	2.029
#2	40.52	39.96	39.55	39.92	1.979	2.026	1.951	4.935	2.037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

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Sample Name: ccvconf Acquired: 6/2/2014 11:50:58 Type: QC									
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000									
User: admin Custom ID1: Custom ID2: Custom ID3:									
Comment:									
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm		
Avg	2.099	2.027	1.995	2.015	1.942	1.980	2.038		
Stddev	.060	.003	.005	.000	.009	.005	.064		
%RSD	2.863	.1334	.2631	.0175	.4592	.2417	3.143		
#1	2.142	2.025	1.991	2.015	1.936	1.977	2.083		
#2	2.057	2.029	1.999	2.016	1.949	1.983	1.993		
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass		
Value									
Range									
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Units	Cts/S	Cts/S	Cts/S	Cts/S					
Avg	165220.	32931.	2270.4	6158.9					
Stddev	232.	626.	5.3	7.3					
%RSD	.14041	1.9017	.23388	.11812					
#1	165380.	32488.	2274.1	6164.1					
#2	165060.	33373.	2266.6	6153.8					

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Sample Name: ccbconf Acquired: 6/2/2014 11:56:48 Type: QC									
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000									
User: admin Custom ID1: Custom ID2: Custom ID3:									
Comment:									
Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0002	.0001	.0001	-0.0001	-0.0003	-0.0005	.0001	.0000	-0.0003
Stddev	.0001	.0000	.0001	.0000	.0002	.0001	.0001	.0001	.0000
%RSD	74.56	94.01	58.93	49.72	72.10	18.46	103.8	1271.	3.682
#1	-0.0002	.0001	.0001	-0.0001	-0.0004	-0.0006	.0000	.0001	-0.0003
#2	-0.0001	.0000	.0001	.0000	-0.0001	-0.0004	.0001	-0.0001	-0.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	-0.0004	.0005	.0005	-0.0003	-0.0005	.0015	-0.0048	-0.0036
Stddev	.0000	.0001	.0005	.0006	.0002	.0011	.0005	.0016	.0007
%RSD	17.69	22.75	105.5	130.1	54.46	212.6	34.68	34.34	19.01
#1	.0001	-0.0003	.0009	.0009	-0.0002	-0.0012	.0012	-0.0036	-0.0031
#2	.0001	-0.0004	.0001	.0000	-0.0004	.0002	.0019	-0.0059	-0.0041
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0005	-0.0031	.0321	.0052	.0012	.0007	.0004	-0.0010	.0001
Stddev	.0007	.0146	.0083	.0028	.0011	.0003	.0000	.0004	.0002
%RSD	140.0	475.8	25.99	53.92	97.40	40.18	6.151	39.69	186.1
#1	-0.0010	-0.0134	.0262	.0032	.0004	.0009	.0004	-0.0007	.0003
#2	.0000	.0073	.0379	.0071	.0020	.0005	.0005	-0.0013	.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

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Sample Name: ccbconf Acquired: 6/2/2014 11:56:48 Type: QC									
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000									
User: admin Custom ID1: Custom ID2: Custom ID3:									
Comment:									
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm		
Avg	.0001	.0002	.0012	.0000	.0012	-0.0002	.0017		
Stddev	.0000	.0002	.0011	.0001	.0003	.0008	.0005		
%RSD	12.62	62.63	90.76	444.1	22.62	509.2	27.88		
#1	.0001	.0001	.0020	.0000	.0014	-0.0007	.0014		
#2	.0001	.0004	.0004	.0001	.0010	.0004	.0021		
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass		
High Limit									
Low Limit									
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Units	Cts/S	Cts/S	Cts/S	Cts/S					
Avg	171040.	34697.	2341.3	6462.9					
Stddev	292.	8.	10.1	20.5					
%RSD	.17101	.02232	.43215	.31680					
#1	170840.	34702.	2348.4	6477.3					
#2	171250.	34691.	2334.1	6448.4					

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Sample Name: icv Acquired: 6/2/2014 12:04:30 Type: QC									
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000									
User: admin Custom ID1: Custom ID2: Custom ID3:									
Comment:									
Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.989	2.042	1.994	1.993	2.011	1.947	2.089	2.021	2.406
Stddev	.004	.005	.003	.002	.006	.014	.005	.002	.0013
%RSD	.1958	.2664	.1316	.0900	.3151	.7343	.2613	.0973	.5208
#1	1.991	2.048	1.991	1.991	2.005	1.931	2.086	2.019	2.393
#2	1.985	2.041	1.994	1.993	2.009	1.958	2.086	2.021	2.407
#3	1.992	2.037	1.996	1.995	2.018	1.952	2.096	2.023	2.418
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.072	2.028	1.986	2.047	2.014	1.979	1.985	39.21	39.83
Stddev	.005	.005	.004	.001	.001	.003	.003	.06	.10
%RSD	.2329	.2562	.1749	.0504	.0606	.1599	.1242	.1556	.2410
#1	2.067	2.023	1.982	2.046	2.014	1.976	1.984	39.25	39.92
#2	2.073	2.026	1.988	2.047	2.013	1.978	1.982	39.14	39.83
#3	2.077	2.033	1.988	2.048	2.016	1.982	1.987	39.23	39.73
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.06	39.32	39.14	39.58	1.970	2.017	1.928	4.917	2.022
Stddev	.10	.09	.08	.09	.006	.004	.014	.005	.003
%RSD	.2546	.2269	.2000	.2180	.2890	.1948	.7317	.1074	.1588
#1	40.17	39.43	39.15	39.60	1.964	2.013	1.912	4.912	2.019
#2	40.06	39.28	39.06	39.48	1.975	2.017	1.939	4.919	2.021
#3	39.96	39.26	39.22	39.65	1.971	2.020	1.933	4.922	2.025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

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Sample Name: icv Acquired: 6/2/2014 12:04:30 Type: QC									
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000									
User: admin Custom ID1: Custom ID2: Custom ID3:									
Comment:									
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm		
Avg	2.036	2.004	1.967	1.991	1.937	1.984	1.986		
Stddev	.002	.009	.008	.008	.011	.004	.007		
%RSD	.1061	.4250	.3951	.3928	.5807	.1769	.3462		
#1	2.037	1.995	1.960	1.982	1.933	1.980	1.990		
#2	2.034	2.005	1.966	1.995	1.929	1.986	1.978		
#3	2.038	2.012	1.975	1.995	1.950	1.985	1.990		
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass		
Value									
Range									
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Units	Cts/S	Cts/S	Cts/S	Cts/S					
Avg	166940.	33922.	2270.9	6176.1					
Stddev	505.	103.	2.9	3.6					
%RSD	.30230	.30457	.12602	.05810					
#1	167500.	33818.	2273.9	6178.8					
#2	166810.	34025.	2270.6	6177.4					
#3	166510.	33923.	2268.2	6172.0					

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Sample Name: icb Acquired: 6/2/2014 12:15:30 Type: QC									
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000									
User: admin Custom ID1: Custom ID2: Custom ID3:									
Comment:									
Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0001	.0001	.0001	.0000	-.0005	.0001	.0002	.0000
Stddev	.0001	.0000	.0000	.0002	.0002	.0003	.0000	.0002	.000
%RSD	76.14	21.75	12.81	169.1	1522.	53.54	20.22	125.4	221.6
#1	.0001	.0001	.0000	.0002	-.0001	-.0007	.0001	.0000	.0000
#2	.0002	.0001	.0001	.0000	.0001	-.0003	.0002	.0003	-.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0002	.0002	.0003	.0002	-.0010	.0001	-.0001	-.0017
Stddev	.0000	.0001	.0005	.0001	.0001	.0003	.0010	.0010	.0013
%RSD	7.860	55.54	220.6	52.02	33.18	28.25	1051.	913.9	76.66
#1	.0002	.0001	.0006	.0002	.0003	-.0008	.0008	.0006	-.0008
#2	.0002	.0002	-.0001	.0004	.0002	-.0012	-.0006	-.0008	-.0027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0023	-.0092	.0343	.0058	.0000	-.0001	.0002	-.0006	.0000
Stddev	.0002	.0010	.0254	.0022	.001	.0002	.0006	.0000	.000
%RSD	10.02	11.39	73.98	38.21	1355.	157.5	391.3	7.169	348.5
#1	.0025	-.0084	.0164	.0042	.0003	.0000	.0006	-.0006	.0000
#2	.0021	-.0099	.0523	.0074	-.0004	-.0002	-.0003	-.0006	-.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

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Sample Name: icb Acquired: 6/2/2014 12:15:30 Type: QC									
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000									
User: admin Custom ID1: Custom ID2: Custom ID3:									
Comment:									
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm		
Avg	.0002	.0001	-.0076	-.0003	-.0013	-.0008	.0008		
Stddev	.0000	.0001	.0007	.0000	.0011	.0002	.0000		
%RSD	5.537	72.12	9.595	9.887	86.09	19.48	3.604		
#1	.0002	.0001	-.0071	-.0003	-.0021	-.0007	.0008		
#2	.0002	.0002	-.0081	-.0003	-.0005	-.0010	.0008		
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass		
High Limit									
Low Limit									
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Units	Cts/S	Cts/S	Cts/S	Cts/S					
Avg	171690.	34826.	2364.9	6528.9					
Stddev	319.	27.	4.3	1.2					
%RSD	.18579	.07759	.18181	.01800					
#1	171470.	34807.	2361.9	6529.8					
#2	171920.	34845.	2368.0	6528.1					

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Sample Name: iccv Acquired: 6/2/2014 12:20:37 Type: QC
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.990	2.044	2.001	1.999	2.015	1.960	2.084	2.032	2.422
Stddev	.003	.003	.004	.004	.003	.003	.004	.005	.0005
%RSD	.1419	.1295	.1808	.1799	.1625	.1411	.1926	.2514	.2133
#1	1.990	2.045	1.997	1.995	2.018	1.957	2.086	2.026	2.422
#2	1.990	2.046	1.998	1.998	2.016	1.958	2.087	2.030	2.426
#3	1.993	2.046	2.004	2.002	2.018	1.962	2.084	2.035	2.424
#4	1.986	2.041	2.005	2.002	2.011	1.962	2.078	2.037	2.414

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.081	2.037	1.992	2.066	2.026	1.986	1.984	39.12	39.88
Stddev	.003	.005	.005	.006	.008	.004	.002	.09	.07
%RSD	.1520	.2292	.2577	.2941	.3930	.1934	.1148	.2343	.1755

#1	2.084	2.031	1.989	2.062	2.016	1.987	1.982	39.12	39.78
#2	2.084	2.036	1.987	2.060	2.024	1.981	1.983	39.13	39.89
#3	2.081	2.040	1.997	2.068	2.029	1.989	1.985	39.22	39.90
#4	2.077	2.042	1.997	2.073	2.034	1.989	1.987	39.00	39.95

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

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Sample Name: iccv Acquired: 6/2/2014 12:20:37 Type: QC
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	165960.	33699.	2257.0	6142.6
Stddev	143.	75.	3.0	10.6
%RSD	.08619	.22231	.13342	.17230

#1	165890.	33730.	2258.7	6154.0
#2	165940.	33631.	2260.3	6149.2
#3	165850.	33646.	2255.2	6134.0
#4	166170.	33791.	2253.8	6133.2

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Sample Name: iccv Acquired: 6/2/2014 12:20:37 Type: QC
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.15	39.48	39.10	39.60	1.968	2.030	1.935	4.948	2.036
Stddev	.02	.08	.10	.12	.003	.005	.004	.011	.006
%RSD	.0404	.1985	.2518	.3142	.1513	.2534	.1968	.2196	.2767
#1	40.14	39.36	39.09	39.63	1.969	2.026	1.932	4.939	2.031
#2	40.15	39.52	39.11	39.64	1.963	2.026	1.932	4.940	2.032
#3	40.17	39.52	39.21	39.72	1.970	2.034	1.939	4.953	2.043
#4	40.15	39.52	38.97	39.43	1.969	2.036	1.938	4.961	2.039

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.034	1.999	1.978	1.986	1.964	1.994	1.988
Stddev	.004	.002	.008	.002	.009	.004	.008
%RSD	.1814	.0810	.4037	.0882	.4851	.1753	.3834

#1	2.035	2.001	1.969	1.987	1.959	1.990	1.990
#2	2.033	1.999	1.973	1.984	1.953	1.992	1.992
#3	2.038	2.001	1.984	1.988	1.968	1.997	1.993
#4	2.029	1.998	1.986	1.985	1.974	1.996	1.977

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

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Sample Name: ccb Acquired: 6/2/2014 12:30:37 Type: QC
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0001	.0001	.0001	-.0001	-.0009	.0001	.0001	-.0003
Stddev	.0001	.0000	.0000	.0001	.0002	.0001	.0000	.0001	.0001
%RSD	206.3	40.91	60.83	100.2	383.3	11.83	1.585	44.71	25.04

#1	.0001	.0001	.0000	.0002	.0001	-.0009	.0001	.0002	-.0002
#2	.0000	.0001	.0001	.0000	-.0002	-.0010	.0001	.0001	-.0003

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	-.0002	.0005	.0003	.0003	-.0006	.0007	-.0007	-.0021
Stddev	.0004	.0001	.0004	.0007	.0009	.0001	.0015	.0083	.0006
%RSD	213.2	38.15	72.04	273.4	349.1	11.84	201.8	1244.	31.24

#1	-.0001	-.0002	.0003	.0008	-.0004	-.0005	-.0003	-.0065	-.0016
#2	.0005	-.0001	.0008	-.0002	.0009	-.0006	.0018	.0052	-.0025

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0014	.0048	.0358	.0110	.0007	.0003	.0008	-.0005	.0000
Stddev	.0003	.0081	.0005	.0002	.0005	.0000	.0008	.0007	.000
%RSD	22.65	168.9	1.354	2.101	76.89	6.547	99.70	133.1	46.46

#1	.0012	-.0009	.0362	.0112	.0003	.0003	.0002	-.0011	.0000
#2	.0017	.0105	.0355	.0109	.0010	.0003	.0014	.0000	.0000

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

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Sample Name: ccb Acquired: 6/2/2014 12:30:37 Type: QC
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0002	-.0037	-.0001	-.0003	-.0012	.0016
Stddev	.0001	.0000	.0011	.0000	.0017	.0008	.0007
%RSD	30.02	7.907	29.36	34.54	517.3	64.40	47.13
#1	.0002	.0002	-.0030	-.0001	.0009	-.0018	.0021
#2	.0002	.0003	-.0045	-.0001	-.0015	-.0007	.0010

Check ? High Limit
Value Range

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	171170.	35001.	2367.3	6539.5
Stddev	357.	267.	37.1	102.3
%RSD	.20872	.76158	1.5686	1.5642
#1	170920.	35190.	2393.5	6611.9
#2	171420.	34813.	2341.0	6467.2

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Sample Name: cri Acquired: 6/2/2014 12:35:56 Type: QC
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2011	.0022	.0033	.0521	.0107	.0092	.0167	.0112	.0049
Stddev	.0003	.0000	.0001	.0001	.0002	.0001	.0000	.0003	.0002
%RSD	.1647	.0165	2.341	.2032	1.490	1.138	.1801	2.963	4.689
#1	.2009	.0022	.0032	.0520	.0106	.0092	.0167	.0109	.0047
#2	.2013	.0022	.0033	.0522	.0108	.0091	.0167	.0114	.0050

Check ? High Limit
Value Range

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0555	.0218	.0083	.0108	.0026	.0098	.0068	.2049	5.186
Stddev	.0001	.0002	.0006	.0003	.0005	.0004	.0001	.0022	.007
%RSD	.2510	.7549	7.014	2.690	20.98	4.185	1.958	1.057	.1443
#1	.0554	.0217	.0079	.0110	.0022	.0095	.0067	.2065	5.181
#2	.0556	.0220	.0088	.0106	.0029	.0101	.0069	.2034	5.191

Check ? High Limit
Value Range

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1088	5.322	5.069	5.096	.1015	.0210	.0529	.2149	.0104
Stddev	.0025	.011	.011	.001	.0008	.0001	.0006	.0013	.0004
%RSD	2.275	.2070	.2192	.0094	.7950	.3121	1.155	.6217	3.920
#1	.1070	5.314	5.061	5.096	.1010	.0209	.0534	.2140	.0101
#2	.1105	5.329	5.077	5.095	.1021	.0210	.0525	.2159	.0107

Check ? High Limit
Value Range

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Sample Name: cri Acquired: 6/2/2014 12:35:56 Type: QC
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0107	.0108	.0531	.0109	.0498	.0214	.0228
Stddev	.0000	.0000	.0004	.0001	.0002	.0006	.0002
%RSD	.3572	.3464	.8389	1.171	.4860	2.681	1.005
#1	.0107	.0108	.0528	.0110	.0496	.0210	.0229
#2	.0107	.0109	.0534	.0108	.0500	.0218	.0226

Check ? High Limit
Value Range

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	169410.	34359.	2319.8	6386.0
Stddev	458.	5.	7.2	21.3
%RSD	.27037	.01589	.30833	.33319
#1	169090.	34363.	2324.9	6401.0
#2	169740.	34355.	2314.7	6370.9

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Sample Name: crid Acquired: 6/2/2014 12:41:56 Type: QC
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0038	.0010	.0011	.0033	.0020	W .0015	.0033	.0043
Stddev	.0000	.0000	.0001	.0002	.0001	.0001	.0000	.0001
%RSD	4.461	.7737	5.544	5.800	5.201	5.805	.8955	1.273
#1	.0037	.0010	.0011	.0032	.0019	.0014	.0033	.0043
#2	.0039	.0010	.0012	.0034	.0021	.0015	.0032	.0044

Check ? High Limit
Value Range

Elem	Ag3280	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0012	.0021	F .0138	.0032	.0023	.0025	.0055	W .0037
Stddev	.0001	.0002	.0001	.0007	.0004	.0008	.0003	.0002
%RSD	5.166	8.715	.7268	22.75	17.37	31.50	4.798	5.439
#1	.0011	.0022	.0138	.0037	.0020	.0020	.0054	.0038
#2	.0012	.0020	.0139	.0027	.0026	.0031	.0057	.0035

Check ? High Limit
Value Range

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0990	1.046	-.0005	.1051	2.038	1.036	.0099	-.0005
Stddev	.0048	.001	.0000	.0160	.017	.007	.0006	.0001
%RSD	4.884	.0513	6.315	15.24	.8238	.6857	5.868	19.79
#1	.0956	1.045	-.0004	.0937	2.026	1.042	.0094	-.0006
#2	.1024	1.046	-.0005	.1164	2.050	1.031	.0103	-.0005

Check ? High Limit
Value Range

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Sample Name: crid Acquired: 6/2/2014 12:41:56 Type: QC
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pd3404	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	-0.0006	.0001	.0000	.0001	F -.0104	F -.0005	F .0012
Stddev	.0003	.0007	.0003	.0000	.0000	.0006	.0001	.0019
%RSD	165.3	104.4	187.0	16.33	25.08	6.060	25.11	162.1
#1	.0003	-.0011	.0000	.0000	.0001	-.0109	-.0006	-.0002
#2	.0000	-.0002	.0003	.0000	.0000	-.0100	-.0004	.0026
Check ?	None	None	None	None	None	Chk Fail	Chk Fail	Chk Fail
Value						.0040	.0040	.0040
Range						-30.00%	-30.00%	-30.00%

Elem	Bi2230	Li6707
Units	ppm	ppm
Avg	F .0001	F .0009
Stddev	.0008	.0006
%RSD	585.3	70.68
#1	.0007	.0005
#2	-.0004	.0014
Check ?	Chk Fail	Chk Fail
Value	.0040	.0040
Range	-30.00%	-30.00%

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	170890.	34624.	2330.9	6438.1
Stddev	282.	128.	2.2	3.1
%RSD	.16478	.37008	.09460	.04831
#1	170690.	34533.	2332.5	6440.3
#2	171090.	34715.	2329.4	6435.9

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Sample Name: cria Acquired: 6/2/2014 12:48:01 Type: QC
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.001	-0.0001	-0.0001	.0000	-0.0001	-0.0007	.0000	.0005	-0.0001
Stddev	.0000	.0000	.0001	.0001	.0004	.0001	.0000	.0001	.0000
%RSD	5.469	33.34	62.47	526.2	507.9	9.988	324.3	22.55	10.13
#1	-.0001	.0000	-.0001	.0000	-.0003	-.0007	.0000	.0004	-.0001
#2	-.0001	-.0001	-.0001	.0001	.0002	-.0006	.0000	.0005	-.0001
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0007	.0210	-0.0009	.0203	.0213	.0200	.4958	.0054
Stddev	.0001	.0001	.0009	.0005	.0005	.0008	.0005	.0039	.0013
%RSD	587.6	15.45	4.373	48.26	2.518	3.547	2.645	.7836	23.43
#1	-.0001	.0006	.0204	-.0013	.0206	.0208	.0196	.4930	.0063
#2	.0001	.0008	.0217	-.0006	.0199	.0218	.0204	.4985	.0045
Check ?	None	None	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5306	.0025	-0.0079	.0084	-0.0004	-0.0007	.0007	-0.0017	-0.0002
Stddev	.0046	.0157	.0027	.0002	.0002	.0002	.0003	.0005	.0008
%RSD	.8690	620.7	34.33	2.920	50.91	28.16	51.63	28.19	440.4
#1	.5274	-.0086	-.0098	.0083	-.0002	-.0008	.0009	-.0021	-.0007
#2	.5339	.0136	-.0060	.0086	-.0005	-.0005	.0004	-.0014	.0004
Check ?	Chk Pass	None	None	None	None	None	None	None	None
Value									
Range									

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Sample Name: cria Acquired: 6/2/2014 12:48:01 Type: QC
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0000	-0.0127	-0.0005	.0006	-0.0003	.0023
Stddev	.0000	.0001	.0005	.0001	.0018	.0001	.0003
%RSD	101.0	195.9	4.163	22.41	294.1	30.38	12.60
#1	.0000	.0000	-.0123	-.0005	.0019	-.0003	.0025
#2	.0001	.0001	-.0131	-.0006	-.0007	-.0004	.0021
Check ?	None	None	None	None	None	None	None
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	173460.	34783.	2352.6	6489.7
Stddev	1081.	378.	5.1	9.8
%RSD	.62339	1.0854	.21803	.15130
#1	172690.	35050.	2356.2	6496.7
#2	174220.	34516.	2348.9	6482.8

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Sample Name: icssa Acquired: 6/2/2014 12:54:06 Type: QC
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0004	.0000	-0.0011	.0004	-0.0014	.0076	-0.0006	-0.0010	.0039
Stddev	.0001	.000	.0003	.0002	.0001	.0004	.0004	.0002	.0027
%RSD	21.30	62.67	23.00	61.29	7.200	4.888	63.03	19.51	69.71
#1	-.0005	.0000	-.0013	.0005	-.0013	.0079	-.0004	-.0009	.0058
#2	-.0004	-.0001	-.0009	.0002	-.0015	.0073	-.0009	-.0012	.0020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	-0.0002	.0004	.0009	-0.0035	.0062	.0077	515.8	395.5
Stddev	.000	.0003	.0003	.0045	.0001	.0029	.0036	6.1	8.7
%RSD	1003.	148.9	57.13	501.8	1.544	47.45	46.17	1.187	2.200
#1	.0001	-.0005	.0006	.0041	-.0034	.0083	.0103	520.1	401.7
#2	-.0001	.0000	.0003	-.0023	-.0035	.0041	.0052	511.5	389.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	199.0	563.0	.0888	.0377	-0.0006	-0.0053	.0145	.0128	.0007
Stddev	5.4	14.8	.0122	.0008	.0015	.0001	.0007	.0004	.0004
%RSD	2.693	2.633	13.71	2.236	272.4	1.427	4.579	2.931	61.34
#1	202.8	573.4	.0802	.0371	-.0005	-.0054	.0150	.0130	.0010
#2	195.2	552.5	.0974	.0383	-.0016	-.0053	.0141	.0125	.0004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

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Sample Name: icsa Acquired: 6/2/2014 12:54:06 Type: QC
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0064	.0003	-0.0026	-0.0033	-0.0784	.0029	.0026
Stddev	.0000	.0006	.0026	.0004	.0035	.0001	.0004
%RSD	.6925	213.1	99.04	12.09	4.476	5.045	16.68
#1	-.0064	-.0001	-.0008	-.0030	-.0809	.0030	.0029
#2	-.0064	.0007	-.0044	-.0036	-.0760	.0028	.0023

Check ? High Limit
Low Limit

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	153620.	31149.	2069.2	5445.4
Stddev	223.	650.	1.8	.4
%RSD	.14514	2.0883	.08861	.00686
#1	153460.	30689.	2067.9	5445.7
#2	153770.	31609.	2070.5	5445.2

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Sample Name: ICSAB Acquired: 6/2/2014 13:00:20 Type: QC
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5154	.5159	1.011	.4770	.4661	.5321	.5030	.9646	1.029
Stddev	.0020	.0019	.003	.0007	.0010	.0010	.0010	.0037	.001
%RSD	.3785	.3591	.3226	.1472	.2064	.1868	.1982	.3837	.0998
#1	.5168	.5172	1.009	.4765	.4654	.5328	.5023	.9620	1.030
#2	.5140	.5146	1.013	.4775	.4667	.5314	.5037	.9672	1.029

Check ? Value
Range

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4817	.9550	1.056	.9567	.9472	1.072	1.017	514.8	392.8
Stddev	.0002	.0050	.002	.0050	.0035	.004	.001	1.0	3.0
%RSD	.0510	.5189	.1691	.5236	.3678	.3558	.1176	.1979	.7740
#1	.4815	.9515	1.055	.9531	.9447	1.069	1.016	515.6	395.0
#2	.4819	.9585	1.058	.9602	.9497	1.075	1.017	514.1	390.7

Check ? Value
Range

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	196.5	573.5	.0811	.0398	.0057	.4895	.5413	.0039	-0.0008
Stddev	.7	2.4	.0135	.0026	.0006	.0013	.0006	.0002	.0008
%RSD	.3570	.4103	16.69	6.403	10.80	.2742	.1069	4.962	101.6
#1	197.0	575.1	.0906	.0380	.0061	.4885	.5409	.0038	-.0002
#2	196.0	571.8	.0715	.0416	.0052	.4904	.5417	.0041	-.0013

Check ? Value
Range

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Sample Name: ICSAB Acquired: 6/2/2014 13:00:20 Type: QC
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0063	.0002	.5524	.5884	.4351	.5564	.5584
Stddev	.0001	.0004	.0063	.0015	.0034	.0041	.0007
%RSD	1.846	274.9	1.142	.2577	.7837	.7435	.1292
#1	-.0064	-.0001	.5479	.5873	.4375	.5535	.5589
#2	-.0062	.0005	.5569	.5894	.4327	.5593	.5579

Check ? Value
Range

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	153260.	31018.	2054.4	5422.3
Stddev	39.	54.	5.9	14.1
%RSD	.02573	.17307	.28902	.26002
#1	153290.	30980.	2058.6	5432.3
#2	153230.	31055.	2050.2	5412.3

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Sample Name: feconf Acquired: 6/2/2014 13:06:27 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0000	-0.0024	.0006	-0.0015	.0082	.0007	-0.0007	.0057
Stddev	.0001	.000	.0001	.0001	.0002	.0001	.0001	.0001	.0002
%RSD	723.6	111.1	2.938	14.26	12.71	1.729	16.54	19.38	3.181
#1	.0001	.0000	-.0025	.0006	-.0016	.0083	.0008	-.0008	.0059
#2	-.0001	.0000	-.0024	.0007	-.0013	.0081	.0007	-.0006	.0056

Check ? Value
Range

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0054	-0.0002	.0021	.0004	-0.0010	.0072	.0444	.0269
Stddev	.0000	.0001	.0002	.0006	.0007	.0005	.0002	.0058	.0093
%RSD	17.20	1.863	69.73	26.03	154.7	48.73	3.280	12.96	34.66
#1	.0000	.0053	-.0004	.0025	.0009	-.0007	.0073	.0485	.0335
#2	.0001	.0055	-.0001	.0017	.0000	-.0014	.0070	.0403	.0203

Check ? Value
Range

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	207.6	.0326	.0776	.0128	-0.0024	-0.0006	.0184	-0.0275	-0.0020
Stddev	1.2	.0058	.0024	.0036	.0000	.0000	.0002	.0008	.0005
%RSD	.5584	17.91	3.091	27.93	1.350	.1508	1.368	2.776	25.68
#1	208.4	.0368	.0793	.0103	-.0024	-.0006	.0165	-.0269	-.0016
#2	206.8	.0285	.0759	.0154	-.0025	-.0006	.0162	-.0280	-.0023

Check ? Value
Range

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	-0.0002	-0.0060	-0.0017	-0.0037	.0064	.0008
Stddev	.000	.0002	.0008	.0003	.0012	.0007	.0008
%RSD	166.0	76.88	13.81	15.11	31.79	11.45	99.62
#1	.0000	-.0001	-.0054	-.0015	-.0029	.0059	.0013
#2	.0000	-.0003	-.0066	-.0019	-.0046	.0069	.0002

Check ? Value
Range

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	169000.	33686.	2310.1	6516.1
Stddev	124.	50.	8.6	27.3
%RSD	.07332	.14881	.37440	.41839
#1	169090.	33651.	2304.0	6496.9
#2	168910.	33722.	2316.2	6535.4

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Sample Name: crconf Acquired: 6/2/2014 13:12:33 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.0003	.0000	-.0003	-.0010	10.86	-.0008	.0000	-.0003	-.0002
Stddev	.0001	.0000	.0001	.0004	.02	.0000	.0000	.0001	.0000
%RSD	15.16	77.16	34.72	36.86	.2169	2.132	292.7	53.79	10.31

#1	.0003	.0000	-.0002	-.0012	10.88	-.0008	.0000	-.0004	-.0002
#2	.0004	.0000	-.0003	-.0007	10.85	-.0008	.0000	-.0002	-.0002

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	-.0033	.0068	.0020	-.0011	-.0004	-.0010	.0023	.0039	-.0153
Stddev	.0000	.0000	.0004	.0005	.0003	.0012	.0007	.0038	.0016
%RSD	.4653	.3533	18.52	47.12	86.79	111.9	30.08	96.54	10.36

#1	-.0033	.0068	.0017	-.0007	-.0001	-.0002	.0027	.0065	-.0142
#2	-.0033	.0067	.0022	-.0014	-.0006	-.0019	.0018	.0012	-.0164

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0259	.0025	-.0027	.0119	-.0013	.0000	-.0009	-.0162	-.0011
Stddev	.0013	.0014	.0013	.0001	.0003	.0001	.0001	.0008	.0000
%RSD	5.149	58.56	47.03	.4383	21.41	136.5	10.56	5.168	1.607

#1	.0269	.0014	-.0035	.0120	-.0011	.0001	-.0008	-.0168	-.0011
#2	.0250	.0035	-.0018	.0119	-.0015	.0000	-.0009	-.0156	-.0011

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0001	.0002	-.0156	-.0069	.0035	.0008	.0023		
Stddev	.0000	.0001	.0005	.0001	.0015	.0001	.0000		
%RSD	15.61	64.17	3.067	1.830	42.74	14.20	.1107		

#1	.0001	.0003	-.0153	-.0069	.0045	.0007	.0023		
#2	.0001	.0001	-.0159	-.0068	.0024	.0008	.0023		

Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	170980.	34170.	2314.0	6491.7					
Stddev	87.	72.	.9	6.1					
%RSD	.05099	.20973	.03747	.09392					

#1	170920.	34120.	2314.6	6487.4					
#2	171040.	34221.	2313.4	6496.1					

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Sample Name: ccv Acquired: 6/2/2014 13:18:36 Type: QC
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.045	2.022	1.956	1.996	1.964	1.987	1.984
Stddev	.000	.004	.016	.005	.011	.006	.001
%RSD	.0011	.2229	.7902	.2526	.5739	.3148	.0464

#1	2.045	2.019	1.945	1.993	1.956	1.982	1.983
#2	2.045	2.026	1.967	2.000	1.972	1.991	1.985

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	165790.	33258.	2256.0	6131.9
Stddev	340.	25.	7.5	22.1
%RSD	.20501	.07431	.33056	.36008

#1	166030.	33275.	2261.3	6147.5
#2	165550.	33240.	2250.7	6116.3

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Sample Name: ccv Acquired: 6/2/2014 13:18:36 Type: QC
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.987	2.043	2.000	1.995	2.013	1.948	2.106	2.036	2.416
Stddev	.000	.004	.009	.009	.005	.003	.007	.011	.0005
%RSD	.0177	.1954	.4463	.4303	.2682	.1444	.3129	.5362	.2229

#1	1.987	2.040	1.994	1.989	2.010	1.950	2.102	2.028	2.420
#2	1.986	2.046	2.006	2.001	2.017	1.946	2.111	2.044	2.412

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.087	2.043	1.993	2.058	2.033	1.986	1.977	39.18	39.94
Stddev	.005	.011	.007	.005	.008	.005	.012	.01	.08
%RSD	.2580	.5127	.3358	.2531	.3834	.2461	.5800	.0310	2.027

#1	2.084	2.036	1.988	2.055	2.027	1.982	1.969	39.19	39.88
#2	2.091	2.051	1.998	2.062	2.038	1.989	1.985	39.17	39.99

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.20	40.03	39.39	39.88	1.957	2.023	1.914	4.957	2.032
Stddev	.05	.07	.00	.00	.009	.009	.002	.014	.011
%RSD	.1263	.1802	.0009	.0070	.4702	.4527	.1200	.2806	.5413

#1	40.16	39.97	39.39	39.88	1.951	2.017	1.916	4.947	2.024
#2	40.23	40.08	39.39	39.88	1.964	2.030	1.912	4.967	2.039

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

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Sample Name: ccb Acquired: 6/2/2014 13:24:26 Type: QC
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0002	.0000	.0001	.0000	-.0009	.0002	.0000	-.0004
Stddev	.000	.0000	.000	.0000	.0002	.0003	.0001	.0001	.0000
%RSD	631.4	13.84	172.9	39.45	411.5	30.09	54.78	462.9	9.778

#1	.0000	.0002	.0000	.0002	-.0001	-.0007	.0003	.0001	-.0004
#2	.0000	.0001	.0000	.0001	.0002	-.0011	.0001	-.0001	-.0003

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0002	.0003	.0000	-.0002	-.0012	.0009	-.0048	-.0028
Stddev	.0000	.0001	.0004	.000	.0003	.0004	.0001	.0012	.0004
%RSD	14.72	36.33	121.7	5301.	127.8	36.62	14.87	25.97	14.71

#1	.0002	.0002	.0000	-.0002	.0000	-.0009	.0010	-.0039	-.0031
#2	.0001	.0001	.0006	.0002	-.0004	-.0015	.0008	-.0057	-.0025

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0026	.0006	.0131	.0096	-.0002	-.0001	-.0002	-.0007	.0003
Stddev	.0000	.0052	.0076	.0040	.0002	.0002	.0002	.0002	.0003
%RSD	1.510	823.7	57.53	42.25	136.6	296.7	107.4	30.22	103.4

#1	.0026	-.0030	.0078	.0067	.0000	.0001	.0000	-.0005	.0005
#2	.0026	.0043	.0185	.0124	-.0004	-.0002	-.0003	-.0008	.0001

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

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Sample Name: ccb Acquired: 6/2/2014 13:24:26 Type: QC
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0001	-0.0080	-0.0002	-0.0016	-0.0010	.0022
Stddev	.0000	.0002	.0013	.0001	.0017	.0002	.0001
%RSD	1.968	200.6	16.53	27.23	100.7	15.92	3.192
#1	.0002	.0002	-0.0070	-0.0003	-0.0005	-0.0009	.0022
#2	.0003	.0000	-0.0089	-0.0002	-0.0028	-0.0011	.0021

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	172400.	34025.	2354.3	6503.2
Stddev	4262.	111.	1.6	4.4
%RSD	2.4720	.32541	.07000	.06764

#1	169390.	33947.	2353.2	6500.1
#2	175410.	34103.	2355.5	6506.3

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Sample Name: mp79668-mb2 5 Acquired: 6/2/2014 13:30:31 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: dod for fe only

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.0002	.0000	.0000	.0000	.0007	-0.0005	.0002	.0004	.0001
Stddev	.0002	.000	.0001	.0000	.0003	.0000	.0000	.0000	.0001
%RSD	66.74	169.9	2686.	35.06	41.36	7.200	9.114	3.507	116.1
#1	.0003	.0000	.0001	.0000	.0005	-0.0005	.0003	.0004	.0000
#2	.0001	.0000	-0.0001	.0000	.0010	-0.0006	.0002	.0004	.0001

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0002	.0036	-0.0003	.0007	-0.0006	-0.0007	.0005	.0058	.0659
Stddev	.0001	.0000	.0005	.0002	.0003	.0007	.0000	.0071	.0008
%RSD	50.01	.6813	171.2	25.40	59.52	101.6	2.727	121.2	1.265
#1	.0003	.0036	.0001	.0006	-0.0003	-0.0012	.0005	.0108	.0665
#2	.0001	.0036	-0.0006	.0009	-0.0008	-0.0002	.0005	.0008	.0653

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0196	.0180	.0202	.0271	-0.0010	-0.0006	.0001	.0129	.0196
Stddev	.0002	.0056	.0011	.0011	.0002	.0000	.0004	.0002	.0000
%RSD	.9919	31.25	5.672	4.189	22.41	4.504	327.4	1.242	2024
#1	.0194	.0220	.0210	.0279	-0.0009	-0.0006	-0.0001	.0130	.0195
#2	.0197	.0140	.0194	.0263	-0.0012	-0.0007	.0004	.0128	.0196

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Avg	.0002	.0007	-0.0137	-0.0004	.0018	-0.0005	.0011
Stddev	.0000	.0004	.0008	.0000	.0013	.0000	.0000
%RSD	7.470	54.13	6.195	5.684	71.42	3.891	3.759
#1	.0002	.0004	-0.0143	-0.0004	.0027	-0.0005	.0010
#2	.0002	.0009	-0.0131	-0.0004	.0009	-0.0005	.0011

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	171210.	34415.	2312.0	6435.2
Stddev	276.	98.	13.1	34.7
%RSD	.16147	.28448	.56836	.53995
#1	171010.	34484.	2321.2	6459.8
#2	171400.	34345.	2302.7	6410.6

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Sample Name: mp79668-b2 Acquired: 6/2/2014 13:36:34 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	3.762	.0981	.0889	.9257	.3885	.4511	1.002	.9632	.0971
Stddev	.005	.0000	.0001	.0010	.0008	.0014	.002	.0003	.0003
%RSD	.1235	.0463	.1615	.1043	.2150	.3038	.2005	.0274	.3284
#1	3.759	.0981	.0888	.9250	.3891	.4502	1.003	.9631	.0969
#2	3.765	.0981	.0890	.9264	.3879	.4521	1.000	.9634	.0973

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.9469	1.039	3.712	3.805	.9387	3.867	.9106	49.67	11.63
Stddev	.0014	.001	.000	.020	.0006	.006	.0005	.00	.07
%RSD	.1438	.0970	.0102	.5251	.0667	.1631	.0598	.0077	.6011
#1	.9479	1.038	3.712	3.819	.9383	3.862	.9103	49.66	11.68
#2	.9460	1.039	3.712	3.791	.9392	3.871	.9110	49.67	11.58

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	49.57	11.88	11.76	11.79	-0.0010	.0010	.0085	.0021	.0163
Stddev	.11	.09	.01	.03	.0002	.0002	.0013	.0000	.0000
%RSD	.2243	.7838	.1194	.2801	24.54	19.10	15.14	2.033	.2285
#1	49.65	11.95	11.75	11.76	-0.0008	.0008	.0095	.0021	.0162
#2	49.50	11.82	11.77	11.81	-0.0012	.0011	.0076	.0022	.0163

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Avg	.0000	.0025	-0.0070	-0.0023	-0.0047	-0.0049	.0006
Stddev	.0001	.0002	.0002	.0002	.0020	.0005	.0004
%RSD	341.9	8.836	2.930	7.257	42.77	10.73	74.32
#1	.0001	.0027	-0.0068	-0.0022	-0.0033	-0.0046	.0009
#2	.0000	.0023	-0.0071	-0.0024	-0.0062	-0.0053	.0003

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	169520.	33659.	2298.2	6345.8
Stddev	135.	110.	3.3	6.1
%RSD	.07954	.32770	.14227	.09617
#1	169620.	33581.	2300.5	6350.1
#2	169430.	33737.	2295.8	6341.4

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Sample Name: mp79668-s1 Acquired: 6/2/2014 13:42:27 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	4.745	.1041	.0989	1.029	.4766	.7757	2.626	1.337	.1026
Stddev	.161	.0033	.0002	.002	.0006	.0009	.004	.004	.0034
%RSD	3.386	3.131	.2510	.2118	.1279	.1198	.1447	.3249	3.278
#1	4.631	.1018	.0987	1.031	.4770	.7750	2.629	1.340	.1003
#2	4.859	.1064	.0990	1.028	.4762	.7763	2.623	1.334	.1050

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	1.192	2.152	4.015	3.778	1.048	3.989	.4306	126.0	201.0
Stddev	.001	.008	.003	.015	.005	.005	.0009	4.0	3.1
%RSD	.0478	.3714	.0759	.3847	.4348	.1258	.2105	3.197	1.519
#1	1.192	2.158	4.017	3.789	1.051	3.993	.4299	123.1	198.8
#2	1.191	2.147	4.013	3.768	1.045	3.986	.4312	128.8	203.1

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	279.1	94.43	32.75	14.18	.1124	.2031	.0229	6.369	.0159
Stddev	7.3	2.80	1.06	.47	.0010	.0001	.0002	.010	.0007
%RSD	2.627	2.969	3.250	3.285	.9164	.0295	.8896	.1560	4.233
#1	273.9	92.45	32.00	13.85	.1116	.2032	.0227	6.376	.0164
#2	284.3	96.41	33.50	14.51	.1131	.2031	.0230	6.362	.0155

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Avg	.2278	.7040	.0112	.1261	5.649	-0.0029	.0921
Stddev	.0076	.0023	.0008	.0003	.004	.0002	.0030
%RSD	3.346	.3313	7.604	.2523	.0721	5.832	3.300
#1	.2224	.7057	.0106	.1259	5.652	-0.0030	.0899
#2	.2332	.7024	.0118	.1264	5.647	-0.0028	.0942

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	168610.	34090.	2236.1	5973.0
Stddev	238.	903.	2.5	4.0
%RSD	.14105	2.6489	.11216	.06646
#1	168770.	34729.	2237.9	5970.2
#2	168440.	33452.	2234.4	5975.8

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Sample Name: mp79668-s2 Acquired: 6/2/2014 13:48:28 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	5.180	.1024	.0983	1.037	.4675	.7609	3.743	1.316	.1011
Stddev	.202	.0040	.0007	.007	.0003	.0020	.027	.009	.0034
%RSD	3.890	3.919	.7090	.7222	.0559	.2642	.7115	.6824	3.374
#1	5.323	.1052	.0978	1.032	.4677	.7623	3.724	1.310	.1036
#2	5.038	.0996	.0988	1.042	.4673	.7594	3.761	1.323	.0987
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	1.174	2.137	3.969	3.700	1.030	3.956	.4166	122.5	232.1
Stddev	.001	.013	.018	.024	.008	.015	.0011	4.9	9.8
%RSD	.0572	.6191	.4601	.6524	.7469	.3766	.2576	4.014	4.238
#1	1.173	2.128	3.957	3.683	1.024	3.946	.4159	126.0	239.0
#2	1.174	2.146	3.982	3.717	1.035	3.967	.4174	119.0	225.1
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	285.5	99.75	31.59	13.99	.1108	.2167	.0235	5.811	.0156
Stddev	9.0	3.83	1.19	.50	.0011	.0010	.0010	.014	.0007
%RSD	3.156	3.842	3.769	3.576	.9703	.4600	4.425	.2365	4.516
#1	291.9	102.5	32.44	14.34	.1100	.2160	.0242	5.801	.0151
#2	279.2	97.04	30.75	13.63	.1115	.2174	.0228	5.820	.0161
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.2659	.6856	.0111	.1211	5.134	-.0022	.0911		
Stddev	.0106	.0017	.0010	.0006	.021	.0004	.0037		
%RSD	3.984	.2438	8.609	.4910	.4183	17.24	4.066		
#1	.2734	.6845	.0104	.1215	5.119	-.0019	.0937		
#2	.2584	.6868	.0118	.1207	5.149	-.0025	.0885		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	168210.	34217.	2217.2	5946.1					
Stddev	161.	1111.	5.9	29.6					
%RSD	.09552	3.2474	.26709	.49835					
#1	168100.	33432.	2221.4	5967.0					
#2	168320.	35003.	2213.0	5925.1					

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Sample Name: jb67344-3 Acquired: 6/2/2014 13:54:36 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.9578	.0042	.0057	.0886	.0877	.2669	1.707	.3481	.0049
Stddev	.0013	.0000	.0001	.0001	.0004	.0008	.003	.0000	.0004
%RSD	.1327	.3510	.9764	.1280	.4380	.3051	.1634	.0046	8.804
#1	.9587	.0042	.0057	.0887	.0874	.2664	1.705	.3481	.0046
#2	.9569	.0042	.0058	.0885	.0880	.2675	1.709	.3480	.0052
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.2400	1.076	.2031	.0085	.1053	.0232	.0120	60.21	187.9
Stddev	.0003	.002	.0008	.0008	.0002	.0001	.0001	.06	4
%RSD	.1316	.1743	.3779	9.215	.2326	.5936	.5789	.1033	.2168
#1	.2398	1.075	.2036	.0091	.1055	.0231	.0121	60.26	188.2
#2	.2402	1.078	.2025	.0080	.1051	.0233	.0120	60.17	187.6
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	223.5	81.30	17.55	1.413	.0861	.1912	.0154	5.034	.0156
Stddev	.1	.27	.06	.001	.0004	.0000	.0003	.017	.0005
%RSD	.0499	.3366	.3610	.0829	.4873	.0079	2.215	.3350	2.885
#1	223.5	81.49	17.59	1.414	.0858	.1912	.0152	5.046	.0153
#2	223.6	81.10	17.50	1.412	.0864	.1912	.0156	5.022	.0160
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.2003	.5895	-.0020	.1054	6.975	.0021	.0818		
Stddev	.0000	.0018	.0001	.0005	.008	.0008	.0009		
%RSD	.0097	.3103	6.924	.4573	.1117	36.86	1.067		
#1	.2003	.5883	-.0019	.1051	6.980	.0015	.0824		
#2	.2004	.5908	-.0021	.1058	6.969	.0026	.0812		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	169300.	33766.	2255.1	6029.2					
Stddev	35.	82.	.6	8.0					
%RSD	.02070	.24207	.02678	.13350					
#1	169280.	33708.	2254.7	6034.9					
#2	169330.	33824.	2255.6	6023.5					

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Sample Name: mp79668-sd1 Acquired: 6/2/2014 14:00:41 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.9855	.0042	.0049	.0915	.0957	.2659	1.932	.3672	.0087
Stddev	.0013	.0002	.0006	.0015	.0013	.0007	.005	.0003	.0010
%RSD	.1356	3.757	11.57	1.627	1.320	.2766	.2455	.0823	11.56
#1	.9865	.0043	.0045	.0905	.0965	.2664	1.935	.3674	.0094
#2	.9846	.0041	.0053	.0926	.0948	.2654	1.929	.3670	.0080
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.2627	1.201	.2135	.0151	.1143	.0317	.0127	62.98	205.0
Stddev	.0000	.003	.0022	.0037	.0017	.0051	.0006	.05	.6
%RSD	.0129	.2627	1.040	24.60	1.482	15.95	4.858	.0835	.2879
#1	.2627	1.199	.2119	.0177	.1155	.0353	.0132	62.94	204.6
#2	.2627	1.203	.2150	.0125	.1131	.0281	.0123	63.02	205.4
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	250.8	86.64	18.15	1.480	.0787	.1980	.0188	5.170	.0141
Stddev	.4	.02	.05	.008	.0029	.0004	.0005	.017	.0032
%RSD	.1611	.0210	.2605	.5636	3.700	.1817	2.625	.3194	22.86
#1	250.5	86.63	18.11	1.474	.0767	.1978	.0185	5.158	.0118
#2	251.1	86.65	18.18	1.486	.0808	.1983	.0192	5.182	.0164
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.2129	.6549	-.0681	.1131	7.105	.0013	.0843		
Stddev	.0005	.0000	.0010	.0009	.037	.0044	.0012		
%RSD	.2393	.0041	1.479	.8128	.5183	341.2	1.453		
#1	.2132	.6550	-.0688	.1138	7.079	.0044	.0835		
#2	.2125	.6549	-.0674	.1125	7.131	-.0018	.0852		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	167470.	33037.	2326.0	6364.2					
Stddev	74.	44.	9.4	17.1					
%RSD	.04437	.13303	.40616	.26822					
#1	167520.	33006.	2332.7	6376.3					
#2	167420.	33068.	2319.3	6352.2					

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Sample Name: mp79668-ps1 Acquired: 6/2/2014 14:06:35 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	5.735	.1023	.1104	.5817	.5695	.7800	2.069	.8068	.1001
Stddev	.034	.0003	.0017	.0101	.0203	.0251	.073	.0150	.0012
%RSD	.5929	.2515	1.573	1.735	3.568	3.218	3.531	1.860	1.230
#1	5.711	.1025	.1091	.5745	.5838	.7977	2.121	.7962	.1010
#2	5.759	.1021	.1116	.5888	.5551	.7622	2.018	.8174	.0992
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.7191	1.465	.6949	.1075	.5872	.5611	.5106	60.23	260.1
Stddev	.0248	.026	.0120	.0006	.0081	.0068	.0087	.24	4
%RSD	3.454	1.769	1.721	.5193	1.374	1.209	1.708	.3954	.1682
#1	.7367	1.446	.6864	.1072	.5815	.5563	.5044	60.40	260.4
#2	.7016	1.483	.7033	.1079	.5929	.5659	.5167	60.06	259.8
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	207.2	178.1	118.7	102.1	1.052	.6705	.0152	4.696	.4842
Stddev	.2	.1	.3	.0	.022	.0131	.0004	.065	.0080
%RSD	.1147	.0421	.2270	.0083	2.057	1.953	2.962	1.382	1.660
#1	207.0	178.2	118.9	102.1	1.037	.6612	.0149	4.650	.4785
#2	207.3	178.1	118.5	102.1	1.068	.6797	.0155	4.742	.4898
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.6814	1.047	.0014	.0954	6.516	-.0011	.0762		
Stddev	.0027	.038	.0010	.0035	.137	.0006	.0007		
%RSD	.4007	3.660	73.32	3.712	2.102	56.39	.9055		
#1	.6833	1.074	.0007	.0979	6.419	-.0007	.0758		
#2	.6794	1.020	.0021	.0929	6.613	-.0015	.0767		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	159830.	33560.	2170.0	5717.1					
Stddev	4853.	26.	32.3	80.3					
%RSD	3.0361	.07831	1.4878	1.4054					
#1	156400.	33542.	2192.8	5773.9					
#2	163270.	33579.	2147.2	5660.3					

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Sample Name: jb67344-1 Acquired: 6/2/2014 14:12:46 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.6913	.0046	.0027	.0938	.1065	.1946	3.172	.2625	.0017
Stddev	.0001	.0000	.0000	.0002	.0005	.0005	.004	.0005	.0004
%RSD	.0114	.8815	.8988	.1613	.4935	.2582	.1398	.1780	20.81
#1	.6913	.0046	.0027	.0937	.1062	.1950	3.175	.2628	.0019
#2	.6912	.0045	.0027	.0940	.1069	.1943	3.169	.2622	.0014
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.2127	.7430	.1239	.0067	.0984	.0080	.0080	77.28	400.9
Stddev	.0008	.0014	.0012	.0014	.0016	.0027	.0012	.08	2.6
%RSD	.3789	.1852	.9295	20.19	1.657	33.45	15.38	.0992	.6509
#1	.2121	.7420	.1231	.0077	.0973	.0061	.0089	77.33	402.7
#2	.2132	.7439	.1247	.0058	.0996	.0099	.0072	77.23	399.0
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	195.7	146.6	20.65	1.999	1.009	.0949	.0134	3.754	.0143
Stddev	.7	.2	.03	.004	.0001	.0004	.0003	.002	.0006
%RSD	.3361	.1579	.1446	.2271	.0659	.4294	2.564	.0438	3.947
#1	196.2	146.8	20.67	1.995	.1008	.0946	.0132	3.753	.0139
#2	195.3	146.5	20.63	2.002	.1009	.0951	.0136	3.755	.0147
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.4360	.6906	-.0032	.0939	2.973	.0005	.1265		
Stddev	.0002	.0010	.0002	.0001	.000	.0001	.0003		
%RSD	.0549	.1393	5.125	.1442	.0150	15.40	.2424		
#1	.4358	.6899	-.0033	.0938	2.973	.0004	.1263		
#2	.4362	.6912	-.0031	.0940	2.972	.0005	.1267		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	163600.	32866.	2162.9	5698.2					
Stddev	84.	45.	.6	2.8					
%RSD	.05134	.13754	.02722	.04932					
#1	163540.	32834.	2163.3	5696.2					
#2	163660.	32898.	2162.4	5700.2					

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Sample Name: jb67344-2 Acquired: 6/2/2014 14:18:56 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.8656	.0045	.0037	.0878	.0983	.2838	2.207	.3517	.0016
Stddev	.0007	.0000	.0004	.0002	.0038	.0111	.087	.0008	.0033
%RSD	.0785	.4054	10.36	.2044	3.895	3.911	3.950	.2353	205.1
#1	.8661	.0045	.0040	.0876	.1011	.2917	2.268	.3511	-.0007
#2	.8652	.0045	.0034	.0879	.0956	.2760	2.145	.3523	.0039
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.2299	1.092	.2112	.0099	.1225	.0047	.0127	67.32	158.5
Stddev	.0091	.000	.0005	.0003	.0012	.0021	.0011	.04	.6
%RSD	3.978	.0005	.2219	3.212	.9848	45.39	8.317	.0649	.4095
#1	.2363	1.092	.2115	.0097	.1233	.0062	.0120	67.35	158.9
#2	.2234	1.093	.2108	.0102	.1216	.0032	.0135	67.28	158.0
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	232.3	79.10	16.15	2.167	.0821	.1903	.0147	4.171	.0148
Stddev	.9	.06	.02	.003	.0001	.0000	.0004	.005	.0004
%RSD	.3778	.0727	.1306	.1371	.0723	.0196	2.940	.1193	2.953
#1	233.0	79.14	16.14	2.169	.0820	.1903	.0150	4.174	.0151
#2	231.7	79.06	16.17	2.165	.0821	.1903	.0143	4.167	.0145
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.1584	.5867	-.0021	.1120	2.856	.0023	.0867		
Stddev	.0002	.0215	.0002	.0046	.006	.0008	.0003		
%RSD	.1118	3.665	9.031	4.098	.2111	33.09	.3746		
#1	.1586	.6019	-.0022	.1152	2.852	.0017	.0865		
#2	.1583	.5715	-.0020	.1087	2.860	.0028	.0869		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	164900.	33779.	2249.2	6030.6					
Stddev	5668.	95.	1.8	2.5					
%RSD	3.4372	.27993	.07877	.04226					
#1	160890.	33712.	2247.9	6028.8					
#2	168900.	33846.	2250.4	6032.4					

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Sample Name: ccv Acquired: 6/2/2014 14:25:02 Type: QC
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.997	2.048	1.990	1.987	1.998	1.955	2.086	2.027	.2425
Stddev	.008	.004	.002	.002	.011	.001	.011	.000	.0002
%RSD	.3865	.2022	.1216	.1059	.5424	.0230	.5250	.0119	.0905
#1	1.992	2.045	1.988	1.985	1.991	1.954	2.079	2.027	.2423
#2	2.003	2.051	1.991	1.988	2.006	1.955	2.094	2.027	.2427
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.089	2.032	1.987	2.054	2.026	1.983	1.972	39.02	39.92
Stddev	.010	.001	.003	.000	.000	.005	.002	.08	.12
%RSD	.4615	.0409	.1400	.0115	.0053	.2582	.1015	.2119	.2990
#1	2.083	2.033	1.989	2.054	2.026	1.987	1.971	38.96	39.84
#2	2.096	2.032	1.985	2.054	2.026	1.979	1.974	39.08	40.01
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.30	40.04	39.46	40.00	1.945	2.023	1.907	4.951	2.029
Stddev	.11	.11	.02	.09	.004	.002	.001	.006	.001
%RSD	.2804	.2824	.0413	.2326	.1995	.0805	.0320	.1164	.0649
#1	40.22	39.96	39.45	39.93	1.942	2.025	1.906	4.955	2.030
#2	40.38	40.12	39.47	40.06	1.947	2.022	1.907	4.947	2.028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

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Sample Name: ccv Acquired: 6/2/2014 14:25:02 Type: QC
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm		
Avg	2.044	2.005	1.954	1.974	1.975	1.989	2.005		
Stddev	.004	.009	.008	.008	.004	.002	.005		
%RSD	.1849	.4426	.4030	.4184	.2147	.1013	.2508		
#1	2.041	1.999	1.948	1.969	1.978	1.988	2.002		
#2	2.047	2.011	1.959	1.980	1.972	1.990	2.009		
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass		
Value									
Range									
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Units	Cts/S	Cts/S	Cts/S	Cts/S					
Avg	165840.	33023.	2251.8	6137.4					
Stddev	780.	49.	4.3	9.7					
%RSD	.47056	.14789	.19223	.15781					
#1	166390.	33058.	2248.7	6130.6					
#2	165290.	32989.	2254.9	6144.3					

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Sample Name: ccb Acquired: 6/2/2014 14:30:53 Type: QC
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0001	.0000	.0001	-.0002	-.0009	.0001	.0000	-.0003
Stddev	.000	.0000	.0000	.0001	.0002	.0002	.0000	.000	.0004
%RSD	287.2	59.42	71.21	87.92	98.65	21.41	1.178	204.0	109.9
#1	.0000	.0000	.0001	.0002	.0000	-.0007	.0001	.0000	-.0001
#2	.0000	.0001	.0000	.0000	-.0003	-.0010	.0001	.0000	-.0006

Check ? High Limit Low Limit
Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0005	.0007	.0005	.0002	-.0012	.0006	-.0076	-.0026
Stddev	.0001	.0001	.0007	.0002	.0006	.0005	.0008	.0042	.0021
%RSD	33.17	16.08	100.2	35.92	288.2	39.03	134.4	55.54	81.59
#1	.0003	.0004	.0012	.0004	-.0002	-.0009	.0011	-.0105	-.0011
#2	.0002	.0005	.0002	.0006	.0007	-.0016	.0000	-.0046	-.0040

Check ? High Limit Low Limit
Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0033	.0050	.0192	.0132	-.0005	.0001	-.0003	.0021	-.0001
Stddev	.0006	.0016	.0179	.0053	.0003	.0003	.0003	.0003	.0002
%RSD	17.76	32.98	93.47	40.42	62.10	232.6	88.71	12.75	141.8
#1	.0037	.0062	.0319	.0094	-.0003	.0004	-.0005	.0023	.0000
#2	.0029	.0038	.0065	.0170	-.0007	-.0001	-.0001	.0019	-.0003

Check ? High Limit Low Limit
Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

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Sample Name: ccb Acquired: 6/2/2014 14:30:53 Type: QC
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0002	-.0103	-.0004	-.0009	-.0003	.0018
Stddev	.0001	.0000	.0001	.0001	.0001	.0012	.0004
%RSD	61.49	20.67	.7983	29.98	11.65	389.2	21.61
#1	.0002	.0002	-.0102	-.0003	-.0008	.0005	.0021
#2	.0001	.0002	-.0104	-.0005	-.0010	-.0011	.0015

Check ? High Limit Low Limit
Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	170860.	34170.	2345.6	6494.2
Stddev	1266.	441.	12.9	38.3
%RSD	.74102	1.2912	.55170	.58936
#1	171760.	34482.	2336.4	6467.1
#2	169960.	33858.	2354.7	6521.3

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Sample Name: mp79776-mb1.3 Acquired: 6/2/2014 14:36:57 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: check for ni

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.0031	.0000	.0001	.0001	.0006	.0010	.0033	.0007	-.0001
Stddev	.0001	.0000	.0000	.0000	.0001	.0001	.0000	.0003	.0002
%RSD	2.406	213.3	51.76	26.87	21.11	8.710	1.175	37.92	226.0
#1	.0031	.0000	.0001	.0000	.0005	.0011	.0032	.0005	-.0002
#2	.0032	.0000	.0002	.0001	.0007	.0010	.0033	.0009	.0000

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0002	.0047	.0004	-.0004	.0098	.0010	.0011	.0119	.1379
Stddev	.0000	.0000	.0004	.0005	.0000	.0004	.0001	.0039	.0017
%RSD	22.08	1.013	119.7	138.6	.2601	39.84	5.254	32.71	1.246
#1	.0002	.0047	.0007	.0000	.0098	.0012	.0011	.0147	.1367
#2	.0002	.0048	.0001	-.0007	.0098	.0007	.0011	.0092	.1391

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.1711	.0206	.0244	.0812	.0006	-.0003	.0003	.2061	.0004
Stddev	.0022	.0036	.0140	.0041	.0001	.0000	.0007	.0013	.0008
%RSD	1.276	17.25	57.44	5.028	18.82	6.336	253.9	.6527	232.6
#1	.1695	.0231	.0145	.0841	.0005	-.0003	-.0002	.2051	-.0002
#2	.1726	.0181	.0344	.0783	.0007	-.0003	.0008	.2070	.0010

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Avg	.0072	.0003	-.0132	-.0005	.8700	-.0017	.0019
Stddev	.0001	.0002	.0006	.0001	.0008	.0003	.0003
%RSD	1.422	45.52	4.467	25.65	.0973	14.88	13.73
#1	.0071	.0005	-.0136	-.0006	.8694	-.0016	.0020
#2	.0073	.0002	-.0128	-.0004	.8706	-.0019	.0017

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	172080.	34996.	2325.2	6486.6
Stddev	671.	599.	2.2	1.6
%RSD	.39009	1.7120	.09294	.02454
#1	171610.	35420.	2326.7	6485.5
#2	172560.	34573.	2323.6	6487.7

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Sample Name: mp79743a-mb1.2 Acquired: 6/2/2014 14:42:58 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: check for sn

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.0005	-.0001	.0000	.0000	.0004	.0002	.0006	.0039	-.0003
Stddev	.0001	.0000	.000	.000	.0000	.0002	.0000	.0004	.0001
%RSD	17.11	5.324	110.2	525.3	11.46	77.58	6.767	9.858	24.29
#1	.0005	-.0001	.0000	.0001	.0004	.0003	.0006	.0037	-.0002
#2	.0004	-.0001	.0000	-.0002	.0003	.0001	.0006	.0042	-.0003

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0001	.0038	-.0006	-.0005	.0011	-.0002	.0008	.0101	.0738
Stddev	.0003	.0000	.0002	.0009	.0000	.0001	.0005	.0079	.0010
%RSD	260.7	.8615	37.23	199.6	3.070	72.50	62.44	78.02	1.352
#1	.0003	.0038	-.0007	.0002	.0011	-.0003	.0011	.0156	.0745
#2	-.0001	.0038	-.0004	-.0011	.0011	-.0001	.0004	.0045	.0731

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0357	.0273	.0217	.0397	-.0013	-.0005	.0003	.0225	.0153
Stddev	.0004	.0078	.0182	.0007	.0001	.0001	.0002	.0003	.0006
%RSD	1.193	28.60	84.07	1.755	4.841	14.05	58.02	1.116	3.595
#1	.0360	.0328	.0088	.0402	-.0012	-.0005	.0004	.0223	.0157
#2	.0354	.0217	.0346	.0392	-.0013	-.0006	.0002	.0227	.0150

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Avg	.0002	.0007	-.0145	-.0004	.0029	-.0019	.0022
Stddev	.0000	.0001	.0001	.0001	.0005	.0001	.0003
%RSD	12.85	10.47	.8219	19.92	15.76	4.240	11.32
#1	.0002	.0007	-.0144	-.0003	.0032	-.0020	.0024
#2	.0002	.0008	-.0146	-.0004	.0026	-.0019	.0021

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	171730.	34121.	2328.2	6466.7
Stddev	213.	351.	8.9	19.5
%RSD	.12379	1.0301	.38217	.30185
#1	171880.	33873.	2334.5	6480.5
#2	171580.	34370.	2321.9	6452.9

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Sample Name: mp79668-s15 Acquired: 6/2/2014 14:49:01 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	4.942	.1116	.0974	1.055	.5181	.7326	2.928	1.399	.1151
Stddev	.027	.0012	.0008	.007	.0065	.0039	.025	.009	.0006
%RSD	.5424	1.060	.8730	.6464	1.255	.5337	.8636	.6170	.5594
#1	4.960	.1125	.0968	1.050	.5227	.7353	2.946	1.393	.1155
#2	4.923	.1108	.0980	1.060	.5135	.7298	2.910	1.405	.1146
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	1.278	2.376	4.080	4.008	1.107	4.041	.4284	131.7	223.7
Stddev	.010	.017	.024	.042	.009	.023	.0016	.8	2.6
%RSD	.7994	.7139	.5953	1.047	.8530	.5785	.3756	.5697	1.184
#1	1.285	2.364	4.062	3.979	1.100	4.024	.4296	132.3	225.6
#2	1.271	2.388	4.097	4.038	1.114	4.057	.4273	131.2	221.8
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	321.8	102.5	34.07	14.85	.1059	.2057	.0253	6.256	.0149
Stddev	3.2	1.2	.11	.05	.0016	.0009	.0031	.011	.0005
%RSD	.9929	1.193	.3140	.3506	1.549	.4552	12.26	.1732	3.180
#1	324.1	103.3	34.15	14.89	.1048	.2064	.0275	6.248	.0145
#2	319.5	101.6	34.00	14.81	.1071	.2051	.0232	6.263	.0152
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.2432	.7593	-.0540	.1329	5.695	-.0026	.1024		
Stddev	.0009	.0061	.0021	.0013	.027	.0054	.0015		
%RSD	.3640	.7982	3.826	.9607	.4788	204.0	1.504		
#1	.2439	.7636	-.0555	.1338	5.676	-.0064	.1035		
#2	.2426	.7550	-.0526	.1320	5.714	.0012	.1013		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	169340.	33278.	2284.7	6239.2					
Stddev	400.	119.	26.6	70.3					
%RSD	.23612	.35716	1.1633	1.1263					
#1	169060.	33194.	2303.5	6288.8					
#2	169620.	33362.	2265.9	6189.5					

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Sample Name: mp79668-s2 Acquired: 6/2/2014 14:54:52 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	5.356	.1095	.0974	1.083	.5197	.7392	4.347	1.403	.1099
Stddev	.026	.0006	.0004	.003	.0075	.0069	.048	.000	.0010
%RSD	.4905	.5056	.4132	.3028	1.436	.9331	1.114	.0041	.9320
#1	5.375	.1099	.0972	1.081	.5145	.7343	4.313	1.403	.1107
#2	5.338	.1091	.0977	1.086	.5250	.7441	4.381	1.403	.1092
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	1.290	2.399	4.095	4.007	1.099	4.074	.4279	127.3	253.9
Stddev	.017	.003	.002	.003	.003	.001	.0008	.7	1.1
%RSD	1.316	.1087	.0528	.0744	.2767	.0138	.1785	.5658	.4486
#1	1.278	2.401	4.096	4.009	1.097	4.075	.4273	127.8	254.8
#2	1.302	2.397	4.093	4.005	1.101	4.074	.4284	126.7	253.1
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	325.7	107.4	32.78	14.53	.1052	.2229	.0304	5.878	.0158
Stddev	1.7	.2	.13	.11	.0033	.0007	.0072	.010	.0018
%RSD	.5372	.1475	.4110	.7348	3.175	.3137	23.58	.1653	11.29
#1	326.9	107.6	32.87	14.60	.1075	.2234	.0253	5.885	.0170
#2	324.4	107.3	32.68	14.45	.1028	.2224	.0355	5.871	.0145
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.2827	.7544	-.0528	.1307	5.257	-.0068	.0977		
Stddev	.0014	.0064	.0007	.0016	.012	.0028	.0006		
%RSD	.4978	.8548	1.354	1.234	.2310	41.60	.6465		
#1	.2837	.7498	-.0533	.1296	5.248	-.0048	.0973		
#2	.2817	.7589	-.0523	.1319	5.265	-.0088	.0982		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	168410.	33503.	2298.6	6303.6					
Stddev	1888.	136.	10.6	28.8					
%RSD	1.1209	.40570	.46128	.45630					
#1	169750.	33407.	2306.1	6324.0					
#2	167080.	33599.	2291.1	6283.3					

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Sample Name: jb67344-3 Acquired: 6/2/2014 15:00:43 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	1.023	.0044	.0059	.0966	.0989	.2770	1.954	.3818	.0055
Stddev	.001	.0002	.0007	.0010	.0043	.0039	.043	.0048	.0023
%RSD	.0747	3.526	11.74	.9871	4.398	1.418	2.181	1.246	41.89
#1	1.023	.0043	.0064	.0972	.0958	.2742	1.924	.3851	.0072
#2	1.022	.0045	.0054	.0959	.1019	.2798	1.984	.3784	.0039
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.2715	1.250	.2238	.0148	.1184	.0226	.0125	63.89	210.0
Stddev	.0068	.015	.0051	.0016	.0041	.0023	.0017	.20	.1
%RSD	2.513	1.220	2.291	11.02	3.467	10.31	13.72	.3194	.0373
#1	.2667	1.261	.2274	.0137	.1213	.0243	.0137	64.03	210.0
#2	.2763	1.239	.2201	.0160	.1154	.0210	.0112	63.75	210.1
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	257.6	88.67	18.47	1.541	.0844	.2080	.0204	5.681	.0180
Stddev	.1	.26	.10	.012	.0052	.0027	.0020	.088	.0032
%RSD	.0521	.2975	.5357	.7626	6.130	1.307	10.01	1.541	17.73
#1	257.7	88.48	18.54	1.549	.0808	.2099	.0190	5.743	.0203
#2	257.5	88.85	18.40	1.532	.0881	.2061	.0219	5.619	.0158
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.2182	.6691	-.0697	.1190	7.482	-.0018	.0910		
Stddev	.0001	.0131	.0022	.0026	.079	.0002	.0019		
%RSD	.0411	1.952	3.101	2.144	1.056	10.34	2.121		
#1	.2183	.6598	-.0681	.1172	7.538	-.0017	.0923		
#2	.2182	.6783	-.0712	.1208	7.426	-.0019	.0896		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	169980.	33886.	2311.8	6344.7					
Stddev	3409.	4.	22.1	61.4					
%RSD	2.0058	.01145	.95446	.96808					
#1	172390.	33884.	2296.2	6301.2					
#2	167570.	33889.	2327.4	6388.1					

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Sample Name: mp79668-sd1 Acquired: 6/2/2014 15:06:40 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 25.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	1.107	.0040	.0022	.0978	.1004	.2447	1.938	.3872	.0221
Stddev	.064	.0009	.0011	.0024	.0007	.0034	.036	.0010	.0154
%RSD	5.756	23.02	47.57	2.452	.6967	1.380	1.867	.2468	69.89
#1	1.062	.0034	.0015	.0961	.1009	.2471	1.963	.3878	.0112
#2	1.153	.0047	.0030	.0994	.0999	.2423	1.912	.3865	.0329
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.2712	1.336	.2192	.0190	.1280	.0106	.0203	69.10	228.1
Stddev	.0018	.004	.0117	.0055	.0305	.0217	.0020	4.27	14.8
%RSD	.6721	.2802	5.315	29.11	23.84	204.5	9.858	6.185	6.479
#1	.2725	1.334	.2275	.0151	.1496	.0260	.0188	66.08	217.7
#2	.2699	1.339	.2110	.0229	.1064	-.0047	.0217	72.12	238.6
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	281.5	95.83	19.45	1.722	.0436	.1993	.0224	5.401	-.0038
Stddev	17.9	5.28	1.32	.048	.0032	.0036	.0221	.031	.0063
%RSD	6.371	5.504	6.804	2.766	7.309	1.814	98.56	.5813	168.2
#1	268.8	92.20	18.51	1.756	.0413	.1967	.0068	5.423	-.0082
#2	294.2	99.67	20.38	1.688	.0458	.2018	.0380	5.379	.0007
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.2349	.6507	-.4008	.0981	7.487	-.0293	.1301		
Stddev	.0138	.0108	.0052	.0022	.011	.0093	.0025		
%RSD	5.869	1.665	1.307	2.212	.1434	31.65	1.922		
#1	.2252	.6584	-.3971	.0996	7.495	-.0228	.1283		
#2	.2447	.6431	-.4045	.0965	7.480	-.0359	.1318		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	175770.	32129.	2327.3	6408.5					
Stddev	2709.	1746.	5.8	28.0					
%RSD	1.5409	5.4351	.24929	.43639					
#1	173860.	33363.	2331.4	6428.3					
#2	177690.	30894.	2323.2	6388.7					

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Sample Name: mp79668-ps1conf Acquired: 6/2/2014 15:12:40 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	-0019	-0016	-0031	.0011	-0013	-0380	-0006	-0124	.0006
Stddev	.0005	.0001	.0004	.0005	.0002	.0002	.0000	.0004	.0014
%RSD	27.99	5.617	12.06	43.16	13.95	.4705	5.969	3.569	247.8
#1	-.0023	-.0015	-.0033	.0008	-.0014	-.0379	-.0006	-.0128	-.0004
#2	-.0015	-.0017	-.0028	.0015	-.0011	-.0382	-.0006	-.0121	.0015
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0036	.0038	.0124	.0170	.0099	-0229	.0006	-0591	-0321
Stddev	.0004	.0001	.0003	.0056	.0019	.0018	.0004	.0061	.0028
%RSD	11.90	3.067	2.107	33.29	19.52	7.673	66.87	10.37	8.586
#1	.0039	.0038	.0126	.0210	.0113	-.0216	.0003	-.0548	-.0340
#2	.0033	.0039	.0122	.0130	.0086	-.0241	.0009	-.0634	-.0301
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	-0258	-0293	-1475	-0912	-0104	-0070	-0008	-0628	-0050
Stddev	.0014	.0183	.0341	.0066	.0001	.0003	.0009	.0014	.0002
%RSD	5.607	62.50	23.10	7.220	.9507	4.479	112.5	2.253	4.820
#1	-.0269	-.0422	-.1716	-.0865	-.0105	-.0072	-.0014	-.0618	-.0049
#2	-.0248	-.0163	-.1234	-.0958	-.0103	-.0068	-.0002	-.0638	-.0052
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0002	-0019	-1041	-0049	.1087	.0123	.0063		
Stddev	.0002	.0003	.0015	.0001	.0005	.0005	.0006		
%RSD	71.13	13.96	1.488	1.264	.4411	4.326	4.665		
#1	.0001	-.0021	-.1030	-.0050	.1084	.0127	.0068		
#2	.0004	-.0017	-.1052	-.0049	.1090	.0119	.0064		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	335650.	49507.	6153.5	14864.					
Stddev	936.	449.	71.4	154.					
%RSD	.27879	.90624	1.1609	1.0328					
#1	336310.	49824.	6204.0	14972.					
#2	334990.	49189.	6103.0	14755.					

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Sample Name: jb67344-1 Acquired: 6/2/2014 15:18:45 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.7138	.0046	.0020	.0987	.1169	.1942	3.610	.2790	.0061
Stddev	.0034	.0001	.0001	.0005	.0003	.0009	.022	.0007	.0011
%RSD	.4698	1.742	5.297	.4747	.2885	.4646	.6219	.2413	18.07
#1	.7162	.0045	.0021	.0984	.1167	.1936	3.594	.2795	.0069
#2	.7115	.0046	.0020	.0990	.1172	.1949	3.626	.2786	.0053
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.2307	.8454	.1351	.0107	.1109	-0056	.0090	78.78	446.4
Stddev	.0032	.0024	.0002	.0090	.0049	.0057	.0028	.24	1.8
%RSD	1.370	.2870	.1604	83.49	4.409	101.8	30.62	.3010	.3920
#1	.2284	.8437	.1352	.0044	.1074	-.0096	.0110	78.95	447.6
#2	.2329	.8471	.1349	.0171	.1143	-.0016	.0071	78.61	445.2
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	217.8	151.9	20.86	2.044	.1002	.0982	.0181	3.826	.0125
Stddev	1.0	.4	.14	.021	.0047	.0015	.0020	.004	.0001
%RSD	.4479	.2566	.6617	1.001	4.681	1.493	11.23	.1176	.7779
#1	218.5	152.2	20.95	2.058	.1035	.0972	.0195	3.822	.0125
#2	217.1	151.6	20.76	2.029	.0969	.0993	.0166	3.829	.0124
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.4533	.7486	-0741	.0972	3.033	.0000	.1332		
Stddev	.0017	.0048	.0021	.0005	.011	.001	.0010		
%RSD	.3775	.6374	2.848	.5284	.3724	.2376	.7150		
#1	.4545	.7452	-.0726	.0968	3.025	.0007	.1325		
#2	.4521	.7519	-.0756	.0975	3.041	-.0007	.1338		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	168160.	33300.	2265.6	6176.6					
Stddev	983.	45.	4.6	12.6					
%RSD	.58433	.13653	.20164	.20401					
#1	168860.	33268.	2268.8	6185.5					
#2	167470.	33333.	2262.4	6167.7					

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Sample Name: jb67344-2 Acquired: 6/2/2014 15:24:44 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.9163	.0047	.0042	.0940	.1069	.2810	2.442	.3799	.0059
Stddev	.0006	.0000	.0000	.0020	.0034	.0017	.008	.0046	.0011
%RSD	.0633	1.000	.0599	2.143	3.161	.6194	.3305	1.218	19.17
#1	.9167	.0047	.0042	.0926	.1093	.2823	2.448	.3766	.0067
#2	.9159	.0046	.0042	.0954	.1045	.2798	2.436	.3832	.0051
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.2481	1.250	.2300	.0241	.1326	.0078	.0143	70.56	177.1
Stddev	.0001	.012	.0016	.0016	.0067	.0056	.0024	.09	.1
%RSD	.0433	.9425	.6968	6.713	5.037	70.91	16.98	.1312	.0819
#1	.2481	1.242	.2288	.0253	.1373	.0039	.0160	70.63	177.2
#2	.2480	1.258	.2311	.0230	.1279	.0118	.0126	70.49	177.0
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	264.8	84.75	16.74	2.289	.0793	.2007	.0209	4.252	.0143
Stddev	.3	.08	.04	.005	.0024	.0019	.0011	.026	.0002
%RSD	.0980	.0903	.2359	.2157	3.003	.9701	5.328	.6099	1.075
#1	264.9	84.80	16.71	2.286	.0776	.1993	.0217	4.234	.0141
#2	264.6	84.69	16.77	2.293	.0809	.2020	.0201	4.270	.0144
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.1696	.6349	-0719	.1171	2.981	-0052	.0968		
Stddev	.0004	.0017	.0026	.0011	.013	.0001	.0018		
%RSD	.2066	.2662	3.606	.9380	.4211	1.940	1.905		
#1	.1698	.6361	-.0700	.1179	2.973	-.0053	.0981		
#2	.1694	.6337	-.0737	.1163	2.990	-.0051	.0955		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	168660.	33540.	2318.0	6327.8					
Stddev	445.	4.	22.9	62.1					
%RSD	.26364	.01063	.98755	.98139					
#1	168350.	33538.	2334.2	6371.7					
#2	168980.	33543.	2301.8	6283.9					

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Sample Name: ccv Acquired: 6/2/2014 15:30:44 Type: QC
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.993	2.070	2.011	1.998	2.016	1.922	2.151	2.062	2.404
Stddev	.006	.006	.009	.010	.008	.007	.008	.008	.0008
%RSD	.2977	.3158	.4542	.4889	.3820	.3483	.3747	.3882	.3237
#1	1.989	2.065	2.017	2.005	2.022	1.918	2.156	2.067	.2410
#2	1.997	2.075	2.004	1.991	2.011	1.927	2.145	2.056	.2399
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.112	2.073	2.007	2.095	2.072	1.986	1.962	39.88	40.28
Stddev	.004	.014	.007	.003	.006	.006	.005	.12	.02
%RSD	.2025	.6522	.3615	.1386	.2718	.3015	.2577	.2990	.0400
#1	2.115	2.083	2.012	2.097	2.076	1.990	1.966	39.80	40.29
#2	2.109	2.064	2.002	2.093	2.068	1.981	1.959	39.97	40.27
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.79	41.42	40.28	40.91	1.920	2.035	1.866	5.027	2.050
Stddev	.01	.10	.14	.18	.001	.006	.006	.019	.009
%RSD	.0314	.2359	.3371	.4354	.0379	.2830	.3231	.3704	.4152
#1	40.78	41.49	40.18	40.78	1.921	2.039	1.861	5.040	2.056
#2	40.80	41.35	40.38	41.04	1.920	2.031	1.870	5.013	2.044
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

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Sample Name: ccv Acquired: 6/2/2014 15:30:44 Type: QC
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.093	2.058	1.966	2.009	1.997	1.981	1.998
Stddev	.006	.004	.002	.001	.000	.003	.011
%RSD	.2658	.1685	.0850	.0479	.0122	.1634	.5497
#1	2.089	2.061	1.967	2.010	1.997	1.983	1.991
#2	2.097	2.056	1.965	2.009	1.997	1.979	2.006

Check ?
Value
Range

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	164690.	32334.	2239.1	6071.5
Stddev	321.	36.	4.7	12.5
%RSD	.19490	.11263	.20910	.20516
#1	164460.	32360.	2235.8	6062.7
#2	164920.	32309.	2242.4	6080.3

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Sample Name: ccb Acquired: 6/2/2014 15:36:34 Type: QC
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0002	-.0101	-.0001	-.0020	-.0014	.0020
Stddev	.0000	.0000	.0018	.0001	.0011	.0001	.0009
%RSD	15.25	10.37	17.92	81.18	55.34	5.903	43.92
#1	.0002	.0002	-.0088	.0000	-.0028	-.0015	.0026
#2	.0002	.0002	-.0114	-.0001	-.0012	-.0013	.0014

Check ?
High Limit
Low Limit

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	169180.	33949.	2335.4	6437.5
Stddev	6933.	258.	1.4	3.3
%RSD	4.0978	.75856	.05984	.05107
#1	174080.	34131.	2334.5	6435.2
#2	164270.	33767.	2336.4	6439.9

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Sample Name: ccb Acquired: 6/2/2014 15:36:34 Type: QC
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0001	.0002	.0002	.0001	-.0012	.0002	-.0003	-.0004
Stddev	.000	.0000	.0001	.0000	.0001	.0006	.0000	.0000	.0002
%RSD	631.6	12.84	39.31	28.79	64.45	49.44	6.806	1.861	36.70
#1	.0001	.0001	.0002	.0001	.0001	-.0016	.0002	-.0003	-.0003
#2	-.0001	.0001	.0003	.0002	.0002	-.0008	.0002	-.0003	-.0006

Check ?
High Limit
Low Limit

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0005	.0000	.0012	-.0003	-.0001	.0014	-.0004	-.0056
Stddev	.0001	.0001	.000	.0012	.0000	.0000	.0005	.0057	.0002
%RSD	34.54	20.81	622.7	100.0	12.77	8.251	32.92	1618.	4.437
#1	.0004	.0005	.0001	.0003	-.0003	-.0001	.0017	-.0044	-.0054
#2	.0003	.0006	-.0002	.0020	-.0003	-.0001	.0011	.0037	-.0058

Check ?
High Limit
Low Limit

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0029	.0100	.0047	.0135	-.0011	.0001	.0001	.0029	.0003
Stddev	.0002	.0248	.0044	.0069	.0001	.0002	.0003	.0002	.0004
%RSD	5.662	247.3	93.66	51.01	13.26	367.6	426.8	8.442	103.3
#1	.0028	.0275	.0016	.0184	-.0010	.0002	.0003	.0027	.0001
#2	.0030	-.0075	.0078	.0086	-.0012	-.0001	-.0001	.0031	.0006

Check ?
High Limit
Low Limit

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Sample Name: mp79668-ps1 Acquired: 6/2/2014 15:44:48 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.932	.1068	.1122	.6134	.6250	.7624	2.275	.8641	.1050
Stddev	.038	.0004	.0004	.0004	.0187	.0206	.071	.0001	.0011
%RSD	.6436	.4086	.3155	.0578	3.000	2.704	3.134	.0152	1.013
#1	5.905	.1065	.1124	.6132	.6117	.7478	2.225	.8640	.1042
#2	5.959	.1072	.1119	.6137	.6382	.7770	2.326	.8642	.1057

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7801	1.733	.7205	.1221	.6325	.5696	.5258	60.28	283.9
Stddev	.0222	.002	.0023	.0064	.0054	.0070	.0007	.38	1.0
%RSD	2.850	.0972	.3172	5.243	8.581	1.236	.1322	.6258	.3565
#1	.7644	1.732	.7189	.1175	.6287	.5646	.5253	60.01	283.2
#2	.7958	1.734	.7221	.1266	.6364	.5746	.5263	60.54	284.6

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	228.2	182.5	117.9	104.9	1.070	.7149	.0183	4.565	.5280
Stddev	1.2	.9	.6	.8	.005	.0005	.0039	.001	.0072
%RSD	.5306	.4776	.5092	.7279	.4655	.0748	21.31	.0254	1.356
#1	227.4	181.9	117.5	104.4	1.074	.7145	.0155	4.564	.5230
#2	229.1	183.1	118.3	105.5	1.067	.7152	.0210	4.566	.5331

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6945	1.118	-.0545	.1008	6.714	-.0017	.0880
Stddev	.0040	.035	.0016	.0037	.036	.0015	.0007
%RSD	.5689	3.127	2.855	3.631	.5385	88.42	.7604
#1	.6917	1.093	-.0534	.0982	6.688	-.0006	.0875
#2	.6973	1.143	-.0556	.1034	6.739	-.0028	.0884

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	162920.	33618.	2262.5	6161.7
Stddev	4444.	71.	4.4	13.2
%RSD	2.7277	.21079	.19660	.21479
#1	166060.	33668.	2265.6	6171.0
#2	159770.	33568.	2259.3	6152.3

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Sample Name: mp79668-sd1 Acquired: 6/2/2014 15:55:40 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 25.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	1.032	.0032	.0037	.0971	.1050	.2428	2.045	.3903	.0054
Stddev	.005	.0010	.0005	.0031	.0003	.0009	.007	.0015	.0003
%RSD	.5222	30.26	12.95	3.227	.3325	.3854	.3352	.3728	5.058

#1	1.036	.0025	.0033	.0949	.1047	.2435	2.050	.3892	.0056
#2	1.029	.0039	.0040	.0994	.1052	.2422	2.040	.3913	.0052

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.2791	1.418	.2347	.0246	.1292	-.0042	.0110	65.67	214.0
Stddev	.0008	.000	.0064	.0159	.0139	.0214	.0025	.11	.1
%RSD	.2942	.0157	2.734	64.65	10.77	512.8	22.40	.1612	.0700

#1	.2797	1.418	.2302	.0133	.1390	.0109	.0128	65.74	213.9
#2	.2785	1.419	.2392	.0358	.1193	-.0193	.0093	65.59	214.1

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	265.8	92.09	18.36	1.921	.0542	.1953	.0075	5.632	.0130
Stddev	.6	.71	.57	.194	.0078	.0007	.0045	.001	.0172
%RSD	.2241	.7725	3.124	10.11	14.41	.3408	60.54	.0086	131.8

#1	265.4	91.59	18.76	1.784	.0598	.1948	.0043	5.633	.0009
#2	266.2	92.60	17.95	2.058	.0487	.1958	.0107	5.632	.0252

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Avg	.2245	.6959	-.4076	.1029	7.478	-.0324	.1378
Stddev	.0018	.0016	.0094	.0041	.017	.0137	.0044
%RSD	.7914	.2242	2.304	4.024	.2288	42.28	3.174

#1	.2257	.6970	-.4142	.0999	7.466	-.0421	.1347
#2	.2232	.6948	-.4009	.1058	7.490	-.0227	.1409

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	170540.	33310.	2334.2	6421.5
Stddev	689.	45.	3.3	2.1
%RSD	.40410	.13460	.14021	.03215

#1	170050.	33342.	2336.5	6423.0
#2	171020.	33279.	2331.9	6420.1

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Sample Name: jb67969-1a 2 Acquired: 6/2/2014 16:05:47 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	149820.	32873.	2004.3	5163.9
Stddev	709.	317.	6.6	13.8
%RSD	.47337	.96545	.32907	.26758

#1	150330.	32648.	1999.6	5154.1
#2	149320.	33097.	2009.0	5173.7

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Sample Name: jb67969-1a 2 Acquired: 6/2/2014 16:05:47 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Avg	.1495	.0003	.0008	.1765	.0043	.0032	.7313	.0115
Stddev	.0019	.0000	.0001	.0000	.0003	.0001	.0058	.0002
%RSD	1.259	3.587	7.799	.0069	6.102	2.854	.7894	1.373

#1	.1508	.0003	.0008	.1765	.0045	.0033	.7272	.0114
#2	.1482	.0003	.0007	.1765	.0042	.0032	.7354	.0117

Elem	Ag3280	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068
Avg	.0000	.0006	.1137	.0077	F -.0022	.0853	.0114	.0019
Stddev	.0003	.0002	.0001	.0011	.0002	.0002	.0010	.0009
%RSD	1332.	34.61	.0872	14.87	9.289	.1853	9.060	45.83

#1	.0002	.0005	.1136	.0069	-.0021	.0852	.0121	.0013
#2	-.0002	.0008	.1138	.0085	-.0024	.0854	.0107	.0025

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Avg	.7737	67.69	2.597	5.730	5.707	F 1152.	.1657	-.0006
Stddev	.0043	.60	.026	.031	.055	.7.	.0007	.0001
%RSD	.5528	.8862	1.004	.5471	.9670	.6289	.4289	13.00

#1	.7767	68.12	2.616	5.752	5.746	1157.	.1662	-.0006
#2	.7707	67.27	2.579	5.708	5.668	1147.	.1652	-.0005

Elem	Pd3404	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820
Avg	.0008	3.706	.0029	.1656	.0020	-.0147	-.0011	1.383
Stddev	.0002	.012	.0005	.0025	.0000	.0003	.0000	.010
%RSD	28.74	.3290	17.45	1.505	.2111	2.080	.9426	.7207

#1	.0007	3.715	.0033	.1674	.0021	-.0145	-.0011	1.390
#2	.0010	3.697	.0025	.1639	.0020	-.0149	-.0011	1.376

Elem	Bi2230	Li6707
Avg	-.0035	.0112
Stddev	.0000	.0001
%RSD	1.055	.7685

#1	-.0035	.0111
#2	-.0035	.0113

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Sample Name: mp79773-lc1 2 Acquired: 6/2/2014 16:11:49 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.4690	.4784	.4754	.4658	.4898	.4520	.5093	.4896	.1846
Stddev	.0160	.0175	.0039	.0026	.0029	.0013	.0028	.0039	.0004
%RSD	3.416	3.663	.8114	.5669	.6020	.2865	.5546	.8034	.2362

#1	.4577	.4660	.4781	.4676	.4919	.4529	.5113	.4924	.1849
#2	.4803	.4908	.4727	.4639	.4877	.4511	.5073	.4868	.1843

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.4908	.5224	.4736	.4822	.4823	.4862	.4666	4.664	5.273
Stddev	.0020	.0043	.0053	.0021	.0032	.0043	.0033	.187	.186
%RSD	.4094	.8186	1.124	.4218	.6683	.8864	.7066	4.012	3.517

#1	.4922	.5255	.4773	.4937	.4846	.4892	.4689	4.532	5.142
#2	.4893	.5194	.4698	.4907	.4801	.4831	.4642	4.797	5.404

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	5.426	5.246	9.452	9.740	.0226	.4887	.0034	.0593	.0002
Stddev	.191	.182	.338	.346	.0003	.0040	.0001	.0008	.0012
%RSD	3.515	3.469	3.575	3.556	1.363	.8121	2.512	1.311	469.4

#1	5.291	5.117	9.213	9.495	.0228	.4915	.0033	.0599	.0011
#2	5.561	5.375	9.691	9.985	.0224	.4859	.0034	.0588	-.0006

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Avg	-.0001	.4917	-.0071	.0013	-.0056	-.0064	.0032
Stddev	.0001	.0020	.0000	.0001	.0013	.0003	.0001
%RSD	111.1	.4147	.5172	7.069	24.16	5.085	4.102

#1	.0000	.4932	-.0071	.0014	-.0065	-.0062	.0031
#2	-.0002	.4903	-.0071	.0013	-.0046	-.0067	.0033

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	171590.	34325.	2277.1	6356.8
Stddev	454.	1090.	17.1	46.0
%RSD	.26476	3.1751	.75029	.72348

#1	171270.	35096.	2265.0	6324.2
#2	171910.	33554.	2289.2	6389.3

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Sample Name: mp79773-mb2 2 Acquired: 6/2/2014 16:17:41 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.0026	.0000	.0001	.0001	.0007	.0008	.0018	.0036	.0001
Stddev	.0002	.0000	.0000	.0001	.0005	.0001	.0000	.0001	.0002
%RSD	7.485	116.7	47.06	202.4	68.74	14.42	.5845	3.680	273.5
#1	.0024	.0000	.0001	.0001	.0004	.0007	.0019	.0037	-.0001
#2	.0027	.0000	.0000	.0000	.0011	.0009	.0018	.0035	.0002
Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0000	-.0003	.0057	-.0015	.0003	.0114	.0012	.0070	.0785
Stddev	.0004	.0002	.0011	.0015	.0005	.0001	.0006	.0003	.0003
%RSD	1470.	47.97	19.03	96.91	178.5	.7242	51.33	4.638	4443
#1	.0003	-.0004	.0064	-.0005	.0006	.0115	.0016	.0067	.0787
#2	-.0002	-.0002	.0049	-.0026	-.0001	.0114	.0007	.0072	.0782
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0045	.0106	.2395	F_1122.	.0009	-.0007	-.0003	.2878	.0033
Stddev	.0002	.0027	.0162	13.	.0003	.0001	.0000	.0026	.0006
%RSD	4.789	25.77	6.759	1.118	30.25	10.71	3.343	.9062	16.82
#1	.0047	.0126	.2281	1131.	.0011	-.0008	-.0003	.2896	.0029
#2	.0044	.0087	.2510	1114.	.0007	-.0007	-.0003	.2859	.0037
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0099	.0000	-.0176	-.0010	.0131	-.0027	.0062		
Stddev	.0000	.0001	.0002	.0003	.0014	.0000	.0012		
%RSD	.1466	147.1	.9833	31.32	10.93	.8579	19.79		
#1	.0099	.0001	-.0177	-.0012	.0142	-.0027	.0054		
#2	.0099	.0000	-.0175	-.0007	.0121	-.0027	.0071		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	151020.	33035.	2028.9	5271.4					
Stddev	1706.	37.	11.9	29.6					
%RSD	1.1299	.11335	.58593	.56202					
#1	152220.	33062.	2020.5	5250.5					
#2	149810.	33009.	2037.3	5292.4					

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Sample Name: sampleconf Acquired: 6/2/2014 16:23:49 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	
Avg	.0038	.0009	.0010	.0030	.0021	F_.0003	.0034	.0041	
Stddev	.0002	.0001	.0000	.0001	.0001	.0003	.0000	.0003	
%RSD	6.315	6.337	.2335	1.692	5.353	84.90	.1501	8.382	
#1	.0037	.0009	.0010	.0030	.0021	.0005	.0034	.0043	
#2	.0040	.0010	.0010	.0031	.0020	.0001	.0034	.0038	
Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	
Avg	F_.0007	.0022	F_.0144	.0035	F_.0036	.0030	.0053	W_.0038	
Stddev	.0007	.0000	.0001	.0002	.0001	.0000	.0006	.0008	
%RSD	104.8	2.032	1.018	6.773	4.024	.8262	10.94	20.58	
#1	.0011	.0023	.0143	.0037	.0035	.0030	.0049	.0033	
#2	.0002	.0022	.0145	.0034	.0037	.0030	.0057	.0044	
Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	
Avg	.1015	1.041	-.0001	.1144	2.076	W_1.276	W_.0078	-.0008	
Stddev	.0094	.068	.0022	.0085	.121	.084	.0002	.0001	
%RSD	9.271	6.488	2154.	7.440	5.815	6.577	2.715	7.377	
#1	.0949	.9934	-.0016	.1084	1.991	1.216	.0076	-.0009	
#2	.1082	1.089	.0014	.1204	2.161	1.335	.0079	-.0008	
Elem	Pd3404	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	
Avg	.0006	-.0002	.0000	.0000	.0000	F_.0179	F_.0007	F_.0026	
Stddev	.0004	.0002	.0003	.0000	.0002	.0006	.0003	.0018	
%RSD	73.36	64.74	1549.	543.6	4453.	3.195	35.81	68.46	
#1	.0003	-.0001	-.0002	.0000	.0002	-.0183	-.0009	-.0013	
#2	.0008	-.0003	.0002	.0000	-.0001	-.0175	-.0005	-.0038	
Elem	Bi2230	Li6707							
Avg	F_.0011	F_.0022							
Stddev	.0005	.0004							
%RSD	47.25	17.34							
#1	-.0015	.0025							
#2	-.0008	.0020							

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Sample Name: sampleconf Acquired: 6/2/2014 16:23:49 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	169810.	33422.	2330.3	6409.7
Stddev	604.	1849.	6.1	24.8
%RSD	.35591	5.5326	.26317	.38719
#1	169380.	34729.	2334.6	6427.3
#2	170230.	32114.	2326.0	6392.2

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Sample Name: sampleconf Acquired: 6/2/2014 16:29:52 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	
Avg	.2058	.0022	.0033	.0517	.0106	.0082	.0170	.0106	
Stddev	.0024	.0000	.0001	.0004	.0005	.0000	.0001	.0002	
%RSD	1.182	.3789	3.517	.8663	4.380	.4326	.3360	1.683	
#1	.2075	.0022	.0034	.0514	.0103	.0082	.0170	.0105	
#2	.2041	.0022	.0032	.0520	.0110	.0082	.0169	.0108	
Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	
Avg	.0048	.0561	.0223	.0094	.0106	.0034	.0109	W_.0075	
Stddev	.0004	.0002	.0003	.0004	.0005	.0001	.0016	.0009	
%RSD	7.934	.2984	1.479	4.729	4.429	2.641	14.54	12.71	
#1	.0045	.0560	.0221	.0090	.0109	.0034	.0120	.0081	
#2	.0051	.0563	.0225	.0097	.0102	.0033	.0097	.0068	
Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	
Avg	.2019	5.313	.1109	5.596	5.209	5.327	.0962	.0204	
Stddev	.0027	.075	.0015	.089	.073	.065	.0007	.0003	
%RSD	1.325	1.403	1.315	1.583	1.405	1.214	.7631	1.694	
#1	.2038	5.366	.1119	5.658	5.261	5.373	.0957	.0202	
#2	.2000	5.261	.1098	5.533	5.157	5.282	.0968	.0207	
Elem	Pd3404	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	
Avg	.0529	.2175	.0102	.0111	.0111	.0449	.0099	.0523	
Stddev	.0003	.0019	.0001	.0002	.0003	.0010	.0001	.0006	
%RSD	.6235	.8876	1.107	1.545	2.655	2.126	1.172	1.237	
#1	.0526	.2161	.0102	.0112	.0109	.0443	.0100	.0527	
#2	.0531	.2189	.0101	.0110	.0113	.0456	.0098	.0518	
Elem	Bi2230	Li6707							
Avg	.0202	W_.0249							
Stddev	.0001	.0006							
%RSD	.6128	2.365							
#1	.0201	.0253							
#2	.0202	.0245							

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Sample Name: sampleconf Acquired: 6/2/2014 16:29:52 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	168030.	32976.	2301.5	6352.9
Stddev	128.	417.	20.6	54.5
%RSD	.07642	1.2659	.89395	.85783

#1	167940.	32681.	2316.0	6391.4
#2	168120.	33271.	2286.9	6314.3

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Sample Name: mp79722-mb1conf Acquired: 6/2/2014 16:35:52 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Avg	.0232	-.0001	-.0001	.0000	.0069	-.0009	.0006	-.0002
Stddev	.0000	.0000	.0001	.0000	.0002	.0001	.0000	.0002
%RSD	.1514	36.28	158.8	35.97	2.450	7.857	6.668	123.5

#1	.0232	-.0001	-.0002	.0000	.0071	-.0009	.0007	-.0003
#2	.0231	-.0001	.0000	.0000	.0068	-.0008	.0006	.0000

Elem	Ag3280	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068
Avg	.0000	.0002	.0115	-.0006	F-.0027	.0004	.0003	.0018
Stddev	.0001	.0002	.0000	.0005	.0003	.0006	.0002	.0008
%RSD	2276.	118.1	.3181	74.17	9.868	178.0	44.84	47.06

#1	-.0001	.0003	.0114	-.0003	-.0029	.0008	.0005	.0024
#2	.0001	.0000	.0115	-.0009	-.0025	-.0001	.0002	.0012

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Avg	.0124	.1497	.0490	.0198	.0118	.0631	-.0016	-.0007
Stddev	.0044	.0030	.0001	.0041	.0167	.0021	.0001	.0000
%RSD	35.07	1.991	.2263	20.69	141.7	3.336	4.332	2.017

#1	.0093	.1518	.0490	.0227	.0237	.0616	-.0015	-.0007
#2	.0155	.1476	.0489	.0169	.0000	.0646	-.0016	-.0007

Elem	Pd3404	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820
Avg	.0007	.0152	.0203	.0007	.0006	-.0158	-.0006	.0105
Stddev	.0004	.0000	.0001	.0001	.0001	.0000	.0000	.0013
%RSD	53.46	.0232	.2986	11.21	17.25	.0635	7.497	11.96

#1	.0010	.0152	.0202	.0006	.0007	-.0158	-.0007	.0097
#2	.0005	.0152	.0203	.0007	.0006	-.0158	-.0006	.0114

Elem	Bi2230	Li6707
Avg	-.0020	.0025
Stddev	.0001	.0008
%RSD	3.133	33.29

#1	-.0021	.0019
#2	-.0020	.0030

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Sample Name: mp79722-mb1conf Acquired: 6/2/2014 16:35:52 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	172500.	34035.	2321.2	6465.9
Stddev	407.	98.	6.1	3.2
%RSD	.23614	.28655	.26207	.05015

#1	172210.	33966.	2316.9	6463.6
#2	172790.	34104.	2325.5	6468.2

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Sample Name: ccv Acquired: 6/2/2014 16:41:57 Type: QC
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.015	2.062	1.998	1.989	1.987	1.955	2.078	2.041	2.432
Stddev	.002	.001	.003	.003	.011	.004	.011	.004	.0005
%RSD	.0789	.0621	.1256	.1639	.5375	.2174	.5041	.1760	.1967

#1	2.014	2.061	1.996	1.987	1.979	1.958	2.070	2.039	2.428
#2	2.016	2.063	2.000	1.991	1.995	1.952	2.085	2.044	2.435

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.083	2.041	1.998	2.079	2.045	1.997	1.976	39.00	40.38
Stddev	.008	.005	.002	.007	.005	.001	.003	.02	.09
%RSD	.3832	.2546	.1064	.3569	.2445	.0432	.1299	.0454	.2284

#1	2.087	2.037	1.997	2.074	2.042	1.996	1.974	38.98	40.31
#2	2.098	2.044	2.000	2.085	2.049	1.998	1.978	39.01	40.44

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.80	40.62	39.51	40.16	1.933	2.036	1.894	4.991	2.041
Stddev	.06	.21	.05	.06	.003	.004	.004	.006	.000
%RSD	.1489	.5090	.1218	.1395	.1268	.1791	.2326	.1257	.0002

#1	40.75	40.47	39.48	40.12	1.931	2.034	1.897	4.986	2.041
#2	40.84	40.77	39.55	40.19	1.935	2.039	1.891	4.995	2.041

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

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Sample Name: ccv Acquired: 6/2/2014 16:41:57 Type: QC
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.055	2.000	1.953	1.969	2.004	1.998	2.012
Stddev	.002	.005	.004	.003	.010	.001	.001
%RSD	.0878	.2476	.2125	.1712	.4935	.0343	.0377
#1	2.054	1.996	1.950	1.967	1.997	1.998	2.012
#2	2.057	2.003	1.956	1.971	2.011	1.997	2.011

Check ?
Value
Range

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	166070.	32880.	2242.1	6103.2
Stddev	419.	12.	2.4	10.2
%RSD	.25254	.03634	.10786	.16744
#1	166360.	32889.	2243.8	6110.4
#2	165770.	32872.	2240.4	6096.0

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Sample Name: ccb Acquired: 6/2/2014 16:47:48 Type: QC
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0001	.0001	.0000	.0002	-.0016	.0001	-.0001	-.0001
Stddev	.0001	.0000	.0001	.000	.0000	.0001	.0000	.0000	.0002
%RSD	252.0	8.944	47.75	337.0	17.35	9.401	.6620	38.93	143.8
#1	.0001	.0001	.0001	.0001	.0002	-.0015	.0001	-.0001	.0000
#2	.0000	.0001	.0001	-.0001	.0003	-.0017	.0002	-.0001	-.0002

Check ?
High Limit
Low Limit

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0006	.0003	-.0009	.0003	-.0002	.0016	-.0053	-.0085
Stddev	.0001	.0002	.0008	.0009	.0008	.0003	.0010	.0013	.0007
%RSD	44.29	33.41	285.8	105.2	266.2	143.4	67.12	25.42	7.934
#1	.0002	.0004	-.0003	-.0002	-.0003	-.0005	.0008	-.0062	-.0080
#2	.0003	.0007	.0008	-.0015	.0009	.0000	.0023	-.0043	-.0090

Check ?
High Limit
Low Limit

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0029	.0062	.0151	.0314	-.0006	.0000	.0001	.0015	.0006
Stddev	.0001	.0120	.0109	.0008	.0002	.000	.0001	.0001	.0001
%RSD	2.792	192.4	71.98	2.527	35.63	2036.	37.82	5.917	9.547
#1	.0030	-.0022	.0228	.0309	-.0004	.0002	.0001	.0015	.0006
#2	.0029	.0147	.0074	.0320	-.0007	-.0003	.0002	.0016	.0006

Check ?
High Limit
Low Limit

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Sample Name: ccb Acquired: 6/2/2014 16:47:48 Type: QC
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0001	-.0097	-.0003	-.0010	-.0018	.0015
Stddev	.0000	.0002	.0013	.0001	.0015	.0000	.0002
%RSD	13.60	152.4	13.75	21.58	147.6	1.908	15.54
#1	.0002	.0002	-.0088	-.0003	.0000	-.0018	.0013
#2	.0002	.0000	-.0107	-.0004	-.0021	-.0019	.0016

Check ?
High Limit
Low Limit

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	170170.	34098.	2337.6	6444.5
Stddev	383.	944.	1.4	5.7
%RSD	.22478	2.7687	.06038	.08850
#1	169900.	33430.	2336.6	6440.4
#2	170440.	34766.	2338.6	6448.5

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Sample Name: mp79767-mb1conf Acquired: 6/2/2014 16:53:52 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0000	.0001	-.0001	.0000	-.0013	.0000	-.0002	-.0004
Stddev	.0001	.000	.0000	.0000	.0001	.0001	.0000	.0002	.0000
%RSD	219.8	41.47	47.20	46.19	165.5	9.083	203.7	119.0	6.812
#1	.0001	-.0001	.0001	-.0001	.0000	-.0014	.0000	.0000	-.0004
#2	.0000	.0000	.0001	-.0001	.0001	-.0012	.0000	-.0003	-.0004

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0016	.0003	-.0005	-.0005	-.0004	.0015	-.0021	-.0030
Stddev	.0001	.0004	.0003	.0005	.0009	.0002	.0005	.0047	.0012
%RSD	56.18	22.94	80.98	99.32	197.0	69.34	33.61	222.5	41.06
#1	.0001	.0014	.0005	-.0002	-.0011	-.0002	.0019	-.0055	-.0021
#2	.0002	.0019	.0001	-.0009	.0002	-.0005	.0012	.0012	-.0038

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0020	.0104	-.0045	.0312	.0009	-.0004	-.0003	.0116	.0002
Stddev	.0007	.0059	.0013	.0014	.0006	.0000	.0005	.0000	.0001
%RSD	35.39	56.97	30.22	4.630	71.81	9.959	162.9	.0355	23.88
#1	.0025	.0145	-.0054	.0302	.0004	-.0004	-.0007	.0116	.0002
#2	.0015	.0062	-.0035	.0323	.0014	-.0005	.0001	.0116	.0003

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0001	-.0125	-.0004	.0028	-.0023	.0007
Stddev	.0000	.0000	.0006	.0000	.0008	.0003	.0007
%RSD	44.02	38.61	5.022	7.703	28.32	14.66	93.07
#1	.0001	.0001	-.0121	-.0003	.0033	-.0021	.0012
#2	.0001	.0001	-.0130	-.0004	.0022	-.0026	.0002

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	169450.	33872.	2316.0	6418.7
Stddev	1002.	20.	9.7	28.6
%RSD	.59142	.05951	.41944	.44601
#1	168740.	33886.	2322.9	6438.9
#2	170160.	33858.	2309.1	6398.4

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Sample Name: mp79767-s1 2 Acquired: 6/2/2014 16:59:54 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	2.034	.0529	.0449	.4927	.2295	1.243	.6224	.6059	.0480
Stddev	.147	.0039	.0008	.0039	.0041	.022	.0093	.0049	.0001
%RSD	7.204	7.438	1.706	.7953	1.789	1.762	1.492	.8068	.1652

#1	2.138	.0557	.0455	.4954	.2266	1.227	.6158	.6094	.0481
#2	1.931	.0501	.0444	.4899	.2324	1.258	.6290	.6025	.0480

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.5506	.8891	6.491	1.871	.5341	3.193	.5577	1.993	24.57
Stddev	.0090	.0070	.016	.006	.0015	.018	.0021	.134	1.75
%RSD	1.637	.7874	.2485	.3395	.2719	.5556	.3823	6.737	7.118

#1	.5442	.8941	6.503	1.875	.5351	3.205	.5562	2.088	25.81
#2	.5569	.8842	6.480	1.866	.5330	3.180	.5592	1.898	23.34

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	1.622	24.93	1799.	330.8	158.3	.0799	.0108	1.126	.1422
Stddev	.108	1.83	125.	23.4	.1	.0008	.0016	.003	.0004
%RSD	6.678	7.355	6.959	7.069	.0886	1.016	15.14	2636	.2861

#1	1.699	26.23	1888.	347.3	158.4	.0793	.0097	1.123	.1425
#2	1.546	23.63	1711.	314.3	158.2	.0805	.0120	1.128	.1419

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Avg	.0004	-.0004	-.1168	.0173	4.391	-.0207	.0126
Stddev	.0001	.0000	.0030	.0011	.025	.0025	.0033
%RSD	22.28	7.530	2.576	6.156	.5752	12.21	26.55

#1	.0005	-.0004	-.1189	.0180	4.409	-.0225	.0149
#2	.0003	-.0004	-.1147	.0165	4.373	-.0189	.0102

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	162090.	33385.	2084.8	6046.7
Stddev	2076.	2033.	1.8	11.5
%RSD	1.2809	6.0895	.08431	.18957

#1	163560.	31947.	2083.6	6038.6
#2	160620.	34822.	2086.1	6054.8

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Sample Name: jib67938-1 Acquired: 6/2/2014 17:11:42 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Avg	-0.0004	-.0003	-.0036	.0042	.0183	.9001	.0802	.0973
Stddev	.0005	.0000	.0004	.0006	.0000	.0025	.0006	.0021
%RSD	117.4	12.75	11.53	15.18	.0946	.2726	.7080	2.127

#1	-.0001	-.0002	-.0039	.0037	.0183	.8984	.0798	.0987
#2	-.0007	-.0003	-.0033	.0046	.0182	.9019	.0806	.0958

Elem	Ag3280	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068
Avg	-.0026	.0142	.2891	3.761	F_-.0412	.0749	.3101	.0425
Stddev	.0004	.0008	.0017	.002	.0027	.0041	.0044	.0003
%RSD	14.53	5.593	.5724	.0428	6.470	5.463	1.414	.8099

#1	-.0029	.0148	.2903	3.760	-.0431	.0720	.3132	.0422
#2	-.0023	.0137	.2879	3.762	-.0394	.0778	.3070	.0427

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Avg	.0202	.0069	.4742	.0788	1658.	286.7	144.3	.0704
Stddev	.0158	.0011	.0019	.0053	8.	1.3	.1	.0004
%RSD	77.93	16.27	.3926	6.666	.5099	.4560	.0411	.5053

#1	.0314	.0077	.4729	.0826	1652.	285.8	144.3	.0702
#2	.0091	.0061	.4756	.0751	1664.	287.7	144.3	.0707

Elem	Pd3404	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820
Avg	.0032	1.052	.1352	.0005	-.0003	-.1297	.0010	4.001
Stddev	.0015	.004	.0004	.0000	.0007	.0021	.0006	.008
%RSD	47.49	.3973	.3267	8.417	225.3	1.643	56.28	.1960

#1	.0043	1.049	.1349	.0005	.0002	-.1312	.0006	4.006
#2	.0022	1.055	.1355	.0006	-.0009	-.1282	.0014	3.995

Elem	Bi2230	Li6707
Avg	-.0121	.0147
Stddev	.0027	.0004
%RSD	22.51	2.563

#1	-.0102	.0150
#2	-.0140	.0145

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Sample Name: mp79767-s2 Acquired: 6/2/2014 17:05:48 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	2.008	.0520	.0441	.4784	.2273	1.286	.6045	.5959	.0473
Stddev	.004	.0001	.0003	.0032	.0001	.003	.0010	.0043	.0001
%RSD	.1921	.2571	.5878	.6730	.0551	.2487	.1587	.7193	.2422

#1	2.010	.0521	.0439	.4761	.2274	1.289	.6038	.5928	.0474
#2	2.005	.0519	.0442	.4807	.2272	1.284	.6052	.5989	.0472

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.5339	.8829	6.612	1.803	.5201	3.147	.5449	1.973	24.20
Stddev	.0002	.0022	.029	.016	.0084	.000	.0012	.009	.10
%RSD	.0347	.2522	.4340	.9094	1.610	.0095	.2235	.4731	.4327

#1	.5338	.8813	6.592	1.791	.5141	3.147	.5440	1.979	24.27
#2	.5341	.8845	6.632	1.814	.5260	3.147	.5458	1.966	24.13

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	1.611	24.09	1877.	342.7	165.9	.0824	.0054	1.161	.1445
Stddev	.001	.19	4.	1.0	.1	.0004	.0016	.007	.0066
%RSD	.0445	.8004	.2182	.2896	.0479	.4906	29.41	.6243	4.558

#1	1.611	24.23	1880.	343.4	165.8	.0821	.0043	1.156	.1398
#2	1.610	23.96	1875.	342.0	165.9	.0826	.0065	1.166	.1491

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Avg	.0002	.0002	-.1268	.0049	4.522	-.0128	.0110
Stddev	.0003	.0007	.0012	.0010	.024	.0021	.0028
%RSD	155.4	354.7	.9613	19.49	.5202	16.34	24.98

#1	.0000	-.0003	-.1276	.0056	4.506	-.0143	.0130
#2	.0005	.0007	-.1259	.0042	4.539	-.0113	.0091

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	161660.	33003.	2081.2	6044.7
Stddev	57.	147.	1.9	13.0
%RSD	.03507	.44507	.09075	.21531

#1	161700.	32899.	2082.6	6053.9
#2	161620.	33106.	2079.9	6035.5

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Sample Name: jib67938-1 Acquired: 6/2/2014 17:11:42 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	162730.	32662.	2120.8	6119.9
Stddev	.77.	4.7	27.3	
%RSD	.00006	.23506	.22156	.44551

#1	162730.	32716.	2117.5	6100.6
#2	162730.	32607.	2124.2	6139.2

Sample Name: mp79767-sd1 Acquired: 6/2/2014 17:17:42 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 25.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	-0051	-0017	-0016	.0049	.0197	.9040	.0814	.0957	-0077
Stddev	.0008	.0003	.0019	.0029	.0075	.0092	.0001	.0005	.0033
%RSD	16.11	19.15	117.2	59.06	37.96	1.013	.1753	.5472	43.14
#1	-.0045	-.0014	-.0030	.0028	.0144	.9104	.0813	.0953	-.0053
#2	-.0057	-.0019	-.0003	.0069	.0249	.8975	.0815	.0961	-.0100
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0177	.3227	3.457	-0285	.0843	.2461	.0878	-0691	.1663
Stddev	.0018	.0046	.005	.0306	.0026	.0186	.0059	.0869	.0087
%RSD	10.40	1.435	.1327	107.1	3.095	7.566	6.749	125.8	5.236
#1	.0190	.3260	3.454	-.0502	.0824	.2329	.0920	-.1305	.1724
#2	.0164	.3195	3.460	-.0069	.0861	.2592	.0836	-.0076	.1601
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.5127	-00873	1762.	297.3	153.3	.0549	.0169	1.273	.1143
Stddev	.0293	.0188	3.	.1	.4	.0051	.0073	.030	.0114
%RSD	5.716	21.53	.1642	.0352	.2789	9.240	43.33	2.382	10.00
#1	.4920	-.0740	1760.	297.2	153.0	.0514	.0221	1.294	.1062
#2	.5334	-.1005	1764.	297.4	153.6	.0585	.0117	1.251	.1224
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0029	.0028	-4665	-0150	4.279	-0424	.0496		
Stddev	.0005	.0074	.0041	.0009	.038	.0192	.0056		
%RSD	17.50	262.9	.8845	6.296	.8796	45.17	11.29		
#1	.0026	-.0024	-.4694	-.0143	4.306	-.0560	.0535		
#2	.0033	.0080	-.4636	-.0156	4.253	-.0289	.0456		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	168840.	33461.	2243.1	6274.5					
Stddev	54.	11.	8.5	23.6					
%RSD	.03195	.03168	.37868	.37583					
#1	168880.	33469.	2249.1	6291.2					
#2	168810.	33454.	2237.1	6257.8					

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Sample Name: mp79767-ps1 Acquired: 6/2/2014 17:23:44 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Avg	4.512	.0915	.0970	.4002	.4526	1.412	.5110	.4702
Stddev	.011	.0000	.0006	.0009	.0017	.001	.0006	.0003
%RSD	.2396	.0380	.5957	.2124	.3846	.0388	.1238	.0678
#1	4.505	.0915	.0966	.3996	.4514	1.412	.5106	.4704
#2	4.520	.0916	.0974	.4008	.4538	1.412	.5115	.4700
Elem	Ag3280	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068
Avg	.0697	.4588	.8058	4.513	.0152	.1138	1.254	.5066
Stddev	.0002	.0004	.0002	.012	.0005	.0001	.011	.0021
%RSD	.2581	.0919	.0215	.2616	3.051	.1277	.8652	.4081
#1	.0698	.4591	.8056	4.505	.0149	.1137	1.246	.5052
#2	.0696	.4585	.8059	4.521	.0155	.1139	1.262	.5081
Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Avg	4.176	80.56	4.829	76.72	F 1302.	319.7	F 132.4	.5735
Stddev	.010	.11	.011	.02	1.	.1	.4	.0017
%RSD	.2330	.1332	.2223	.0265	.0440	.0422	.2938	.2913
#1	4.169	80.49	4.821	76.71	1302.	319.8	132.1	.5723
#2	4.183	80.64	4.837	76.74	1302.	319.6	132.7	.5747
Elem	Pd3404	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820
Avg	.0033	.9530	.5494	.4569	.4402	F -.0717	-0015	3.686
Stddev	.0003	.0010	.0012	.0000	.0010	.0011	.0001	.003
%RSD	8.050	.1047	.2198	.0060	.2320	1.480	8.790	.0720
#1	.0035	.9523	.5485	.4569	.4395	-.0710	-.0014	3.684
#2	.0031	.9537	.5502	.4568	.4409	-.0725	-.0016	3.688
Elem	Bi2230	Li6707						
Avg	-0040	.0051						
Stddev	.0005	.0001						
%RSD	11.86	1.710						
#1	-.0044	.0052						
#2	-.0037	.0051						

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Sample Name: mp79767-ps1 Acquired: 6/2/2014 17:23:44 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	133940.	31663.	1623.6	4978.3
Stddev	196.	60.	7.2	17.7
%RSD	.14638	.18897	.44347	.35548
#1	133800.	31705.	1628.7	4990.8
#2	134080.	31621.	1618.5	4965.8

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Sample Name: jb67498-1 Acquired: 6/2/2014 17:29:46 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 2.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Avg	.0362	.0336	.0030	1.060	.0021	.0147	14.59	.0933
Stddev	.0002	.0001	.0002	.001	.0005	.0002	.17	.0006
%RSD	.5143	.1501	7.194	.1123	26.59	1.296	1.142	.6542
#1	.0364	.0336	.0032	1.060	.0025	.0148	14.48	.0929
#2	.0361	.0337	.0029	1.061	.0017	.0146	14.71	.0937
Elem	Ag3280	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068
Avg	-0009	-0014	.3622	.0342	F -.0059	.0226	.0017	.0061
Stddev	.0001	.0003	.0001	.0009	.0032	.0006	.0005	.0013
%RSD	8.628	19.63	.0217	2.534	54.13	2.707	30.01	1591.
#1	-.0010	-.0012	.3623	.0336	-.0081	.0222	.0013	.0010
#2	-.0009	-.0016	.3621	.0348	-.0036	.0230	.0021	-.0008
Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Avg	9.631	48.63	42.85	22.17	30.24	276.6	2258	-0007
Stddev	.005	.18	.14	.02	.9	.0097	.0000	.0000
%RSD	.0517	.3727	.3347	.6507	.0589	.3190	4.295	4.699
#1	9.627	48.50	42.75	22.07	30.23	275.9	.2327	-.0007
#2	9.635	48.76	42.95	22.28	30.26	277.2	.2190	-.0006
Elem	Pd3404	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820
Avg	-0047	29.01	-0047	.2637	.0038	-0235	-0066	166.2
Stddev	.0003	.01	.0013	.0001	.0002	.0002	.0000	.2
%RSD	6.264	.0495	27.88	.0546	3.823	1.035	.4624	.1198
#1	-.0049	29.03	-.0056	.2636	.0039	-.0233	-.0067	166.1
#2	-.0045	29.00	-.0038	.2638	.0037	-.0237	-.0066	166.4
Elem	Bi2230	Li6707						
Avg	-0161	.0459						
Stddev	.0009	.0001						
%RSD	5.628	.2781						
#1	-.0167	.0458						
#2	-.0154	.0460						

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Sample Name: jb67498-1 Acquired: 6/2/2014 17:29:46 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 2.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	181020.	36440.	2434.5	6004.5
Stddev	132.	236.	1.3	9.2
%RSD	.07305	.64701	.05153	.15306
#1	181120.	36606.	2433.6	6011.0
#2	180930.	36273.	2435.4	5998.0

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Sample Name: jb67498-4 Acquired: 6/2/2014 17:35:56 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 10.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.0116	.0360	.0019	.3872	.0720	.0426	2.920	.1424	-.0025
Stddev	.0005	.0003	.0002	.0019	.0004	.0006	.003	.0006	.0020
%RSD	4.404	.9333	11.34	.4914	.5212	1.379	.1003	.4049	77.79
#1	.0112	.0357	.0021	.3886	.0717	.0422	2.918	.1420	-.0011
#2	.0119	.0362	.0018	.3859	.0722	.0430	2.922	.1428	-.0039
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0053	1.452	.0744	-.0048	.0276	.0097	.0125	81.02	43.50
Stddev	.0005	.004	.0016	.0066	.0044	.0043	.0087	.21	.03
%RSD	9.654	.3086	2.161	137.4	15.95	45.01	69.90	.2563	.0683
#1	.0056	1.455	.0733	-.0095	.0307	.0066	.0187	80.87	43.48
#2	.0049	1.449	.0756	-.0001	.0245	.0127	.0063	81.17	43.52
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	24.72	24.13	11.21	1013.	.5896	-.0113	.0134	35.81	-.0038
Stddev	.03	.13	.03	4.	.0274	.0006	.0022	.09	.0024
%RSD	.1046	.5264	.3109	.3518	4.650	4.879	16.31	.2621	63.04
#1	24.70	24.04	11.23	1015.	.6090	-.0109	.0119	35.87	-.0021
#2	24.74	24.22	11.18	1010.	.5703	-.0117	.0150	35.74	-.0055
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.4181	.0057	-.1659	-.0486	F 1178.	-.0227	.0575		
Stddev	.0011	.0015	.0050	.0004	3.	.0079	.0092		
%RSD	.2517	26.18	3.007	.7407	.2141	34.99	16.04		
#1	.4174	.0046	-.1624	-.0484	1180.	-.0283	.0640		
#2	.4189	.0067	-.1695	-.0489	1177.	-.0171	.0510		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	169760.	33590.	2332.6	6192.3					
Stddev	180.	34.	7.1	20.8					
%RSD	.10582	.10120	.30253	.33576					
#1	169880.	33566.	2327.6	6177.6					
#2	169630.	33614.	2337.6	6207.0					

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Sample Name: jb67938-2 Acquired: 6/2/2014 17:42:01 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Avg	-.0009	-.0002	.0060	.0042	.0219	1.083	.0939	.0988
Stddev	.0008	.0001	.0129	.0004	.0031	.199	.0162	.0010
%RSD	94.55	34.46	212.5	9.223	13.92	18.34	17.23	1.020
#1	-.0003	-.0002	.0151	.0040	.0241	1.223	.1053	.0981
#2	-.0015	-.0003	-.0030	.0045	.0198	.9422	.0824	.0995
Elem	Ag3280	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068
Avg	-.0032	.0156	.2893	3.924	F -.0437	.0752	.3296	.0388
Stddev	.0013	.0010	.0052	.001	.0036	.0014	.0015	.0004
%RSD	42.36	6.681	1.784	.0266	8.183	1.924	.4483	.9548
#1	-.0022	.0163	.2856	3.923	-.0412	.0762	.3306	.0391
#2	-.0041	.0148	.2929	3.924	-.0462	.0741	.3285	.0386
Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Avg	.0232	.0396	.2908	.1043	1705.	294.6	149.5	.0740
Stddev	.0160	.0281	.2422	.0049	20.	3.2	.2	.0005
%RSD	68.99	70.95	83.29	4.704	1.147	1.085	.1639	.7089
#1	.0345	.0595	.1196	.1077	1719.	296.8	149.3	.0743
#2	.0119	.0197	.4621	.1008	1691.	292.3	149.7	.0736
Elem	Pd3404	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820
Avg	.0052	1.088	.1439	.0008	-.0024	-.1316	-.0019	4.197
Stddev	.0006	.005	.0043	.0000	.0018	.0007	.0009	.006
%RSD	11.36	.4512	2.983	3.149	76.33	.5181	49.67	.1515
#1	.0056	1.092	.1470	.0008	-.0037	-.1312	-.0012	4.193
#2	.0047	1.085	.1409	.0009	-.0011	-.1321	-.0025	4.202
Elem	Bi2230	Li6707						
Avg	-.0128	.0150						
Stddev	.0008	.0021						
%RSD	6.317	13.89						
#1	-.0133	.0165						
#2	-.0122	.0135						

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Sample Name: jb67938-2 Acquired: 6/2/2014 17:42:01 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	*****	33050.	2080.2	6055.8
Stddev	-----	419.	4.1	19.7
%RSD	-----	1.2669	.19837	.32450
#1	-----	32753.	2083.2	6069.7
#2	160870.	33346.	2077.3	6041.9

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Sample Name: ccv Acquired: 6/2/2014 17:48:04 Type: QC
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.001	2.055	1.985	1.980	1.990	1.941	2.086	2.037	2.424
Stddev	.011	.008	.003	.001	.001	.002	.001	.001	.0001
%RSD	.5243	.3804	.1382	.0317	.0576	.1245	.0325	.0611	.0316
#1	1.994	2.049	1.987	1.980	1.990	1.942	2.087	2.038	2.423
#2	2.009	2.060	1.983	1.979	1.991	1.939	2.086	2.036	2.424

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.097	2.040	1.989	2.070	2.043	1.986	1.960	38.95	40.19
Stddev	.000	.001	.005	.000	.003	.005	.006	.15	.10
%RSD	.0195	.0418	.2411	.0201	.1286	.2682	.3229	.3798	.2600
#1	2.097	2.040	1.992	2.070	2.045	1.989	1.965	38.85	40.11
#2	2.097	2.041	1.986	2.069	2.041	1.982	1.956	39.06	40.26

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.70	40.78	39.52	40.14	1.956	2.031	1.870	4.980	2.034
Stddev	.13	.04	.21	.25	.005	.003	.002	.013	.000
%RSD	.3237	.0896	.5244	.6173	.2660	.1627	.1023	.2669	.0186
#1	40.60	40.76	39.37	39.97	1.959	2.033	1.871	4.990	2.034
#2	40.79	40.81	39.66	40.32	1.952	2.029	1.868	4.971	2.034

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

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Sample Name: ccv Acquired: 6/2/2014 17:48:04 Type: QC
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.056	2.002	1.944	1.958	2.001	1.983	1.997
Stddev	.008	.001	.002	.002	.005	.006	.014
%RSD	.3951	.0650	.1133	.0848	.2602	.3296	.7183
#1	2.050	2.003	1.943	1.959	2.004	1.987	1.987
#2	2.062	2.002	1.946	1.957	1.997	1.978	2.007

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	165920.	32797.	2244.2	6109.5
Stddev	297.	149.	6.6	12.6
%RSD	.17910	.45570	.29274	.20691
#1	166130.	32902.	2239.5	6100.6
#2	165710.	32691.	2248.8	6118.4

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Sample Name: ccb Acquired: 6/2/2014 17:53:54 Type: QC
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0001	.0001	.0000	.0000	-.0015	.0001	.0001
Stddev	.0000	.0000	.0001	.0001	.0001	.0001	.0000	.0000
%RSD	332.3	40.55	126.8	139.6	341.3	7.303	1.273	16.30
#1	.0000	.0001	.0002	.0000	.0001	-.0016	.0001	.0001
#2	-.0001	.0001	.0000	.0001	-.0001	-.0014	.0001	.0001

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Ag3280	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0002	.0002	.0004	.0007	.0005	.0006	-.0007	.0018
Stddev	.0001	.0001	.0001	.0003	.0014	.0002	.0011	.0007
%RSD	47.40	26.61	30.81	41.01	265.6	28.85	152.3	38.11
#1	-.0003	.0003	.0003	.0005	.0015	.0007	-.0015	.0023
#2	-.0002	.0002	.0005	.0009	-.0005	.0005	.0001	.0013

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0100	-.0057	.0019	-.0059	.0562	.0320	W .0337	-.0001
Stddev	.0041	.0002	.0016	.0214	.0042	.0008	.0015	.0001
%RSD	41.05	4.211	84.57	364.8	7.469	2.544	4.317	122.0
#1	-.0071	-.0055	.0030	.0092	.0592	.0314	.0347	.0000
#2	-.0129	-.0058	.0007	-.0210	.0532	.0325	.0326	-.0002

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Warn Chk Pass
High Limit
Low Limit

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Sample Name: ccb Acquired: 6/2/2014 17:53:54 Type: QC
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pd3404	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005	.0036	.0003	.0002	.0004	-.0103	-.0003	.0000
Stddev	.0009	.0008	.0001	.0000	.0002	.0003	.0001	.0006
%RSD	175.8	20.99	42.58	2.855	63.85	2.903	46.10	2595.
#1	.0012	.0031	.0004	.0002	.0006	-.0101	-.0002	.0005
#2	-.0001	.0042	.0002	.0002	.0002	-.0105	-.0004	-.0004

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Bi2230	Li6707
Units	ppm	ppm
Avg	-.0015	.0021
Stddev	.0002	.0004
%RSD	14.77	16.92
#1	-.0017	.0019
#2	-.0014	.0024

Check ? Chk Pass Chk Pass
High Limit
Low Limit

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	172420.	33893.	2335.3	6439.2
Stddev	729.	81.	7.2	7.7
%RSD	.42291	.23878	.30936	.11965
#1	171900.	33836.	2340.4	6444.7
#2	172940.	33951.	2330.2	6433.8

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Sample Name: sampleconf Acquired: 6/2/2014 17:59:58 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.0000	.0000	-.0001	.0000	.0002	-.0014	.0000	-.0004	-.0002
Stddev	.000	.0000	.0000	.0001	.0002	.0001	.0000	.0003	.0001
%RSD	177.0	890.6	4.524	317.1	74.03	3.891	30.91	68.95	49.62
#1	-.0001	.0000	-.0001	.0001	.0001	-.0013	.0000	-.0002	-.0003
#2	.0000	.0000	-.0001	.0000	.0004	-.0014	.0000	-.0006	-.0002
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0002	.0010	-.0002	.0005	.0002	-.0009	.0008	-.0006	-.0010
Stddev	.0000	.0001	.0002	.0004	.0010	.0019	.0002	.0030	.0010
%RSD	21.48	7.482	92.80	85.40	429.2	216.1	21.52	493.8	108.1
#1	.0002	.0011	.0001	.0002	.0010	-.0022	.0007	.0015	-.0002
#2	.0002	.0010	.0003	.0007	-.0005	.0005	.0010	-.0027	-.0017
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0009	.0061	.0392	.0198	.0271	-.0008	.0003	.0068	.0003
Stddev	.0003	.0174	.0190	.0021	.0004	.0001	.0005	.0002	.0010
%RSD	38.48	283.6	48.50	10.64	1.619	10.32	156.3	2.842	16.88
#1	.0006	-.0062	.0258	.0213	.0274	-.0007	.0000	.0069	.0004
#2	.0011	.0185	.0527	.0183	.0268	-.0008	.0007	.0066	.0003
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0001	.0003	-.0149	-.0005	.0012	-.0015	.0015		
Stddev	.0000	.0001	.0003	.0002	.0002	.0004	.0001		
%RSD	15.66	21.19	2.070	34.10	15.68	27.76	8.606		
#1	.0001	.0003	-.0151	-.0006	.0011	-.0012	.0014		
#2	.0001	.0002	-.0146	-.0004	.0014	-.0018	.0015		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	169840.	34157.	2358.3	6490.8					
Stddev	593.	826.	2.0	7.0					
%RSD	.34907	2.4177	.08499	.10800					
#1	169420.	33573.	2356.9	6495.7					
#2	170260.	34741.	2359.7	6485.8					

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Sample Name: jb67379-9a Acquired: 6/2/2014 18:15:04 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	
Avg	.3392	.0007	-.0057	.7959	194.8	.3100	7.630	4.339	
Stddev	.0026	.0001	.0007	.0086	10.8	.0228	.526	.052	
%RSD	.7570	22.18	12.63	1.079	5.536	7.366	6.891	1.208	
#1	.3411	.0005	-.0052	.8019	187.2	.2938	7.258	4.376	
#2	.3374	.0008	-.0062	.7898	202.4	.3261	8.002	4.302	
Elem	Ag3280	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	
Avg	.0005	2.879	1.442	F -.0505	.0150	.0930	-.0038	.1478	
Stddev	.0131	.191	.004	.0780	.0083	.0036	.0150	.0834	
%RSD	2808.	6.648	.2468	154.7	55.09	3.837	392.6	56.43	
#1	.0098	2.744	1.445	-.1057	.0208	.0955	.0068	.2068	
#2	-.0088	3.015	1.440	.0047	.0091	.0905	-.0144	.0888	
Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	
Avg	207.0	1942.	430.4	293.4	1.494	9.253	2.807	-.0002	
Stddev	1.0	7.	1.4	1.2	.009	.074	.0014	.0002	
%RSD	.4777	.3531	.3210	.4078	.5900	.7980	.5042	132.0	
#1	207.7	1947.	431.4	294.2	1.488	9.305	.2817	.0000	
#2	206.3	1938.	429.5	292.6	1.501	9.201	.2797	-.0003	
Elem	Pd3404	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	
Avg	.0202	2.866	-.0075	.9851	6.035	-.0550	F -.1040	16.64	
Stddev	.0054	.079	.0018	.0056	.416	.0012	.0100	.25	
%RSD	26.78	2.764	24.28	.5649	6.889	2.116	9.615	1.501	
#1	.0241	2.922	-.0088	.9891	5.741	-.0558	-.0969	16.81	
#2	.0164	2.810	-.0062	.9812	6.329	-.0542	-.1111	16.46	
Elem	Bi2230	Li6707							
Avg	.0638	.0822							
Stddev	.0157	.0007							
%RSD	24.55	.8545							
#1	.0749	.0817							
#2	.0528	.0826							

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Sample Name: mp79767-ps1 Acquired: 6/2/2014 18:09:11 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	4.319	.0901	.0902	.4393	.4710	1.277	.5470	.5210	.0641
Stddev	.014	.0003	.0006	.0013	.0123	.034	.0107	.0003	.0012
%RSD	.3175	.3493	.6690	.2916	2.609	2.673	1.956	.0554	1.903
#1	4.309	.0899	.0898	.4402	.4797	1.301	.5546	.5208	.0649
#2	4.328	.0903	.0907	.4384	.4623	1.253	.5395	.5213	.0632
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.4773	.7891	3.497	.0517	.1515	.9001	.4731	4.353	85.47
Stddev	.0113	.0008	.008	.0090	.0000	.0142	.0006	.032	.13
%RSD	2.376	.1057	.2292	17.38	.0275	1.581	.1286	.7296	.1569
#1	.4853	.7885	3.503	.0580	.1515	.8900	.4726	4.331	85.38
#2	.4693	.7897	3.491	.0453	.1515	.9101	.4735	4.376	85.57
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	5.084	85.96	1620.	350.6	132.1	.5455	.0043	.9703	.5533
Stddev	.012	.02	6.	.9	.2	.0000	.0013	.0026	.0017
%RSD	.2388	.0206	.3617	.2652	.1626	.0064	29.63	.2673	.3029
#1	5.076	85.97	1616.	349.9	132.0	.5455	.0052	.9684	.5521
#2	5.093	85.95	1624.	351.2	132.3	.5454	.0034	.9721	.5545
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.4496	.4602	-.1150	.0123	3.683	-.0159	.0117		
Stddev	.0007	.0115	.0035	.0015	.007	.0028	.0029		
%RSD	.1457	2.489	3.059	12.14	.1801	17.84	24.67		
#1	.4492	.4683	-.1126	.0133	3.679	-.0139	.0138		
#2	.4501	.4521	-.1175	.0112	3.688	-.0179	.0097		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	160150.	32788.	2111.2	6056.4					
Stddev	3139.	152.	1.2	7.7					
%RSD	1.9600	.46340	.05779	.12657					
#1	157930.	32895.	2112.1	6061.8					
#2	162370.	32680.	2110.4	6051.0					

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Sample Name: jb67379-9a Acquired: 6/2/2014 18:15:04 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	160170.	31898.	2029.1	5813.3
Stddev	8929.	69.	19.5	51.2
%RSD	5.5750	.21669	.96297	.88016
#1	166480.	31849.	2015.2	5777.2
#2	153850.	31947.	2042.9	5849.5

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Sample Name: jb67379-17a Acquired: 6/2/2014 18:21:09 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	5.649	.0049	.0283	.0761	.4113	1.903	8.604	.2005	.0046
Stddev	.012	.0000	.0002	.0002	.0001	.004	.039	.0001	.0021
%RSD	.2192	.2100	.6543	.3116	.0343	.2008	.4478	.0429	46.30
#1	5.640	.0049	.0284	.0760	.4112	1.906	8.632	.2005	.0031
#2	5.658	.0049	.0281	.0763	.4114	1.900	8.577	.2004	.0062
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.2626	16.50	.1991	.0187	F_29.97	-.0030	.0425	58.83	112.6
Stddev	.0005	.01	.0004	.0003	.00	.0000	.0014	.18	.9
%RSD	.1966	.0450	.2159	1.619	.0090	1.493	3.280	.3042	.7841
#1	.2622	16.50	.1994	.0189	29.97	-.0030	.0415	58.70	111.9
#2	.2630	16.51	.1988	.0185	29.97	-.0031	.0435	58.95	113.2
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	318.2	41.29	10.92	4.181	.1267	.0164	.0222	4.253	1.176
Stddev	5.0	.19	.04	.023	.0010	.0003	.0009	.005	.003
%RSD	1.577	.4539	.3506	.5494	.7503	1.576	4.083	.1301	.2468
#1	314.7	41.15	10.89	4.164	.1274	.0166	.0216	4.257	1.178
#2	321.8	41.42	10.95	4.197	.1260	.0163	.0229	4.249	1.174
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.6071	5.157	.0753	.0517	20.39	.0251	.0999		
Stddev	.0016	.000	.0015	.0003	.08	.0012	.0007		
%RSD	.2689	.0010	2.014	.5799	.3698	4.584	.7300		
#1	.6059	5.157	.0742	.0515	20.44	.0260	.0994		
#2	.6082	5.157	.0764	.0519	20.33	.0243	.1005		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	170370.	33186.	2265.8	6199.0					
Stddev	126.	100.	5.1	5.9					
%RSD	.07400	.30156	.22461	.09445					
#1	170460.	33256.	2262.2	6194.9					
#2	170290.	33115.	2269.4	6203.2					

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Sample Name: mbcnf Acquired: 6/2/2014 18:27:25 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.0001	-.0001	.0000	.0000	.0004	-.0017	.0005	-.0003	-.0001
Stddev	.0001	.0000	.000	.000	.0002	.0001	.0001	.0002	.0001
%RSD	50.32	36.39	917.8	108000.	41.41	4.468	11.26	55.92	98.97
#1	.0001	.0000	.0001	.0001	.0005	-.0017	.0005	-.0002	-.0002
#2	.0002	-.0001	-.0001	-.0001	.0003	-.0016	.0005	-.0004	.0000
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0002	.0015	.0001	.0007	.0011	.0002	.0006	-.0082	.0014
Stddev	.0001	.0001	.0006	.0004	.0006	.0005	.0005	.0014	.0015
%RSD	79.64	7.138	550.5	63.62	56.71	246.6	86.65	16.63	105.0
#1	.0001	.0016	-.0003	.0004	.0006	-.0002	.0002	-.0092	.0025
#2	.0002	.0015	.0005	.0010	.0015	.0006	.0009	-.0073	.0004
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0170	-.0077	-.0099	.0147	.0175	-.0008	-.0002	.0003	.0005
Stddev	.0000	.0051	.0206	.0001	.0002	.0002	.0005	.0002	.0006
%RSD	.0126	66.43	207.5	.7976	1.227	18.95	285.0	6.028	129.8
#1	.0170	-.0113	.0046	.0148	.0176	-.0009	.0002	.0034	.0009
#2	.0170	-.0041	-.0245	.0146	.0173	-.0007	-.0005	.0031	.0000
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0001	.0006	-.0170	-.0007	.0001	-.0021	.0011		
Stddev	.0000	.0000	.0003	.0001	.0015	.0001	.0003		
%RSD	1.905	7.558	1.588	10.40	1315.	5.244	32.63		
#1	.0001	.0007	-.0172	-.0006	.0012	-.0020	.0008		
#2	.0001	.0006	-.0168	-.0007	-.0009	-.0022	.0013		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	172510.	33457.	2349.8	6474.1					
Stddev	96.	1539.	8.7	25.2					
%RSD	.05545	4.6008	.36882	.38934					
#1	172440.	34546.	2343.7	6456.3					
#2	172570.	32369.	2355.9	6492.0					

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Sample Name: mp79780-mb1 1 Acquired: 6/2/2014 18:33:29 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.0001	-.0001	-.0002	.0001	.0000	-.0014	.0000	.0003	-.0002
Stddev	.0000	.0000	.0000	.0001	.0000	.0001	.0000	.0002	.0000
%RSD	27.79	8.821	18.49	89.41	74.05	4.942	24.62	58.10	1.126
#1	.0002	-.0001	-.0002	.0000	.0000	-.0013	.0000	.0005	-.0002
#2	.0001	-.0001	-.0002	.0002	.0001	-.0014	.0001	.0002	-.0002
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0003	.0022	.0010	.0033	.0003	-.0025	-.0009	-.0005	.0122
Stddev	.0000	.0003	.0006	.0004	.0006	.0001	.0003	.0042	.0079
%RSD	5.277	11.62	62.56	11.73	228.8	3.522	36.09	915.5	64.33
#1	.0003	.0024	.0014	.0036	.0007	-.0026	-.0011	-.0034	.0067
#2	.0003	.0020	.0005	.0031	-.0002	-.0025	-.0007	.0025	.0178
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0025	-.0013	-.0325	.0149	.0131	-.0011	.0001	.0032	-.0001
Stddev	.0013	.0192	.0061	.0097	.0001	.0002	.0001	.0005	.0005
%RSD	52.54	1455.	18.85	64.91	.5553	14.94	107.1	15.58	433.5
#1	.0034	-.0149	-.0369	.0081	.0132	-.0012	.0001	.0029	-.0005
#2	.0015	.0122	-.0282	.0218	.0131	-.0010	.0000	.0036	.0003
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0000	.0001	-.0190	-.0009	.0021	.0005	.0018		
Stddev	.0000	.0004	.0004	.0001	.0000	.0012	.0002		
%RSD	82.24	317.4	2.202	5.771	1.719	244.7	10.84		
#1	.0001	.0004	-.0193	-.0009	.0022	.0014	.0017		
#2	.0000	-.0002	-.0187	-.0010	.0021	-.0004	.0020		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	174310.	33391.	2318.2	6486.4					
Stddev	8.	389.	2.2	3.0					
%RSD	.00464	1.1664	.09406	.04693					
#1	174310.	33667.	2319.7	6488.5					
#2	174320.	33116.	2316.7	6484.2					

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Sample Name: mp79780-lc1 Acquired: 6/2/2014 18:39:31 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.4573	.4643	.5087	.4816	.4966	.4576	.5215	.5141	.1961
Stddev	.0586	.0575	.0030	.0012	.0019	.0049	.0026	.0015	.0006
%RSD	12.81	12.39	.5888	.2489	.3740	1.070	.4943	.3002	.2828
#1	.4987	.5050	.5066	.4807	.4953	.4541	.5197	.5130	.1965
#2	.4159	.4236	.5108	.4824	.4980	.4611	.5234	.5152	.1957
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.4960	.5501	.5080	.5288	.5175	.5455	.4946	4.572	5.137
Stddev	.0018	.0011	.0024	.0113	.0004	.0024	.0048	.580	.612
%RSD	.3694	.2086	.4817	2.137	.0788	.4429	.9803	12.67	11.91
#1	.4973	.5509	.5097	.5368	.5172	.5438	.4912	4.982	5.570
#2	.4947	.5493	.5062	.5208	.5178	.5472	.4980	4.163	4.705
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	5.302	5.167	9.307	9.541	.0351	.4939	.0027	.0367	-.0010
Stddev	.659	.622	1.201	1.235	.0099	.0012	.0022	.0305	.0000
%RSD	12.44	12.04	12.90	12.95	28.29	.2501	84.28	83.03	.9943
#1	5.768	5.607	10.16	10.41	.0280	.4930	.0042	.0152	-.0010
#2	4.836	4.727	8.458	8.668	.0421	.4948	.0011	.0583	-.0010
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0000	.5010	-.0134	-.0006	.0010	-.0029	.0015		
Stddev	.000	.0037	.0020	.0000	.0001	.0002	.0004		
%RSD	926.5	.7303	15.10	8.257	8.722	6.455	29.25		
#1	-.0002	.4984	-.0148	-.0006	.0011	-.0031	.0018		
#2	.0001	.5036	-.0120	-.0006	.0009	-.0028	.0012		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	172080.	33391.	2282.0	6359.8					
Stddev	1189.	6.1	19.1	19.1					
%RSD	.69086	.0184	.8362	.29993					
#1	172920.	33726.	2286.3	6373.3					
#2	171240.	33726.	2277.7	6346.3					

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Sample Name: mp79780-s1 Acquired: 6/2/2014 18:45:25 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	1.750	.0443	.1151	.4376	.2355	.2510	.5904	.5104	.0454
Stddev	.015	.0003	.0001	.0009	.0040	.0031	.0092	.0005	.0001
%RSD	.8332	.5862	.0673	.2078	1.712	1.229	1.564	.1018	.1108
#1	1.740	.0441	.1150	.4370	.2326	.2489	.5839	.5100	.0454
#2	1.761	.0444	.1152	.4382	.2383	.2532	.5970	.5107	.0454
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.4425	.5681	1.789	1.830	.4464	1.973	.4148	5.933	41.48
Stddev	.0061	.0015	.003	.000	.0006	.006	.0002	.037	.41
%RSD	1.384	.2572	.1789	.0030	.1311	.3096	.0498	.6270	.9958
#1	.4381	.5671	1.787	1.830	.4460	1.968	.4146	5.907	41.19
#2	.4468	.5692	1.791	1.830	.4468	1.977	.4149	5.959	41.77
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	8.836	36.12	24.37	146.2	.0711	.0081	.0020	3.680	-.0013
Stddev	.085	.34	.19	1.0	.0006	.0001	.0005	.001	.0011
%RSD	.9608	.9314	.7789	.6585	.8392	.8495	22.39	.0160	87.55
#1	8.775	35.89	24.24	146.9	.0716	.0082	.0024	3.680	-.0005
#2	8.896	36.36	24.50	145.5	.0707	.0081	.0017	3.680	-.0021
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0882	.0151	.0126	.0003	25.29	-.0029	.0028		
Stddev	.0007	.0004	.0011	.0002	.03	.0005	.0001		
%RSD	.7454	2.431	8.384	60.63	.1242	16.11	2.049		
#1	.0877	.0148	.0118	.0002	25.32	-.0026	.0028		
#2	.0887	.0154	.0133	.0004	25.27	-.0033	.0029		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	165470.	33273.	22124.	5968.5					
Stddev	2111.	260.	8.3	24.1					
%RSD	1.2757	.78071	.37347	.40358					
#1	166960.	33456.	2218.2	5985.6					
#2	163980.	33089.	2206.5	5951.5					

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Sample Name: mp79780-s2 Acquired: 6/2/2014 18:51:21 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	1.709	.0432	.1119	.4251	.2304	.2271	.5800	.4944	.0443
Stddev	.014	.0005	.0009	.0029	.0006	.0004	.0000	.0038	.0001
%RSD	.8329	1.128	.8425	.6851	.2401	.1737	.0061	.7676	.2369
#1	1.720	.0436	.1112	.4230	.2308	.2269	.5800	.4917	.0442
#2	1.699	.0429	.1125	.4272	.2300	.2274	.5799	.4971	.0443
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.4327	.5485	1.739	1.783	.4320	1.916	.4021	5.833	40.49
Stddev	.0004	.0043	.009	.005	.0014	.009	.0024	.054	.41
%RSD	.0910	.7814	.5394	.2652	.3131	.4466	.5931	.9276	1.016
#1	.4330	.5454	1.733	1.780	.4310	1.910	.4004	5.871	40.78
#2	.4325	.5515	1.746	1.787	.4329	1.922	.4038	5.794	40.20
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	8.501	35.32	24.03	144.0	.0679	.0078	.0024	3.516	-.0016
Stddev	.087	.29	.16	3.4	.0001	.0001	.0001	.025	.0006
%RSD	1.019	.8120	.6615	2.371	.1970	1.283	5.538	.7230	35.86
#1	8.562	35.53	24.14	146.4	.0678	.0079	.0023	3.499	-.0012
#2	8.440	35.12	23.92	141.6	.0680	.0078	.0025	3.534	-.0020
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0867	.0139	.0115	.0002	24.63	-.0018	.0035		
Stddev	.0008	.0002	.0010	.0001	.11	.0003	.0000		
%RSD	.9515	1.674	8.348	54.32	.4592	19.33	.1024		
#1	.0873	.0141	.0108	.0003	24.55	-.0020	.0035		
#2	.0861	.0138	.0122	.0001	24.71	-.0016	.0035		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	166300.	33395.	2229.0	6019.0					
Stddev	36.	224.	19.9	44.1					
%RSD	.02139	.67200	.89125	.73296					
#1	166270.	33237.	2243.0	6050.2					
#2	166320.	33554.	2214.9	5987.8					

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Sample Name: ccv Acquired: 6/2/2014 18:57:19 Type: QC
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.006	2.055	1.996	1.977	1.984	1.945	2.094	2.040	2.430
Stddev	.040	.043	.008	.006	.012	.004	.011	.007	.0004
%RSD	1.978	2.077	.4231	.3012	.5869	.2303	.5102	.3240	.1829
#1	2.034	2.085	1.990	1.972	1.976	1.948	2.087	2.035	.2427
#2	1.977	2.024	2.002	1.981	1.992	1.942	2.102	2.045	.2434
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.102	2.036	1.997	2.085	2.051	1.990	1.962	38.99	40.02
Stddev	.007	.005	.011	.013	.007	.012	.002	.73	1.00
%RSD	.3449	.2566	.5450	.6432	.3243	.5867	.1042	1.873	2.508
#1	2.097	2.033	1.989	2.076	2.047	1.982	1.960	39.50	40.73
#2	2.107	2.040	2.004	2.094	2.056	1.998	1.963	38.47	39.31
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.73	40.88	39.51	40.48	1.923	2.038	1.873	5.022	2.038
Stddev	.92	1.00	.65	.69	.004	.011	.001	.021	.008
%RSD	2.247	2.449	1.647	1.715	.2263	.5403	.0304	.4208	.3733
#1	41.38	41.59	39.97	40.97	1.920	2.030	1.873	5.007	2.033
#2	40.09	40.17	39.05	39.99	1.926	2.046	1.873	5.037	2.043
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

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Sample Name: ccv Acquired: 6/2/2014 18:57:19 Type: QC
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.065	2.016	1.947	1.972	2.019	1.998	2.004
Stddev	.038	.007	.010	.007	.011	.009	.034
%RSD	1.847	.3535	.5246	.3485	.5547	.4311	1.678
#1	2.092	2.011	1.939	1.968	2.011	1.992	2.028
#2	2.038	2.021	1.954	1.977	2.027	2.004	1.980
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							
Int. Std.	Y_3600	Y_3710	Y_2243	In2306			
Units	Cts/S	Cts/S	Cts/S	Cts/S			
Avg	165640.	32657.	2227.0	6075.6			
Stddev	185.	576.	9.6	23.9			
%RSD	.11150	1.7629	.43028	.39265			
#1	165770.	32250.	2233.8	6092.5			
#2	165510.	33064.	2220.2	6058.8			

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Sample Name: ccb Acquired: 6/2/2014 19:03:10 Type: QC
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0002	.0001	.0001	.0003	.0014	.0002	.0000	.0002
Stddev	.0000	.0000	.0000	.0001	.0002	.0000	.0000	.0002	.0001
%RSD	4.041	2.556	39.89	101.7	78.78	.4155	12.76	456.9	42.53
#1	.0001	.0002	.0000	.0001	.0001	.0014	.0002	.0001	.0002
#2	.0001	.0002	.0001	.0000	.0004	.0014	.0002	.0001	.0003

Check ? High Limit Low Limit
Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006	.0005	.0002	.0006	.0004	.0003	.0017	.0019	.0057
Stddev	.0001	.0000	.0006	.0006	.0002	.0001	.0002	.0086	.0010
%RSD	9.367	5.257	372.3	91.37	53.84	52.04	11.42	462.6	17.17
#1	.0006	.0004	.0006	.0002	.0003	.0002	.0018	.0042	.0064
#2	.0005	.0005	.0003	.0010	.0006	.0004	.0016	.0080	.0050

Check ? High Limit Low Limit
Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0047	.0016	.0224	.0300	.0086	.0001	.0000	.0042	.0005
Stddev	.0014	.0064	.0336	.0022	.0003	.0001	.0005	.0003	.0002
%RSD	28.90	405.2	149.6	7.238	3.694	188.0	158.0	7.272	45.92
#1	.0056	.0029	.0013	.0285	.0083	.0002	.0003	.0040	.0003
#2	.0037	.0061	.0462	.0316	.0088	.0000	.0004	.0045	.0006

Check ? High Limit Low Limit
Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

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Sample Name: ccb Acquired: 6/2/2014 19:03:10 Type: QC
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0003	.0108	.0003	.0011	.0010	.0018
Stddev	.0000	.0001	.0011	.0000	.0013	.0009	.0001
%RSD	2.800	53.14	9.754	4.889	115.9	86.73	6.888
#1	.0003	.0004	.0101	.0003	.0020	.0004	.0019
#2	.0003	.0002	.0116	.0003	.0002	.0017	.0017

Check ? High Limit Low Limit
Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	172280.	34034.	2323.4	6425.3
Stddev	4180.	801.	16.3	50.1
%RSD	2.4261	2.3541	.70052	.77928
#1	175240.	34601.	2334.9	6460.8
#2	169330.	33468.	2311.8	6389.9

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Sample Name: jb67852-1 Acquired: 6/2/2014 19:09:15 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.0586	.0002	.0730	.0111	.0650	.0314	.1465	.0595	.0002
Stddev	.0004	.0000	.0001	.0001	.0040	.0021	.0088	.0005	.0006
%RSD	.6053	18.96	.1052	.6519	6.206	6.760	5.991	.7751	364.1
#1	.0588	.0002	.0730	.0111	.0679	.0329	.1527	.0598	.0003
#2	.0583	.0001	.0729	.0110	.0622	.0299	.1403	.0591	.0006

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0113	.0931	.0074	.0052	.0025	.0042	.0011	3.553	19.96
Stddev	.0005	.0005	.0008	.0010	.0002	.0002	.0005	.001	.08
%RSD	4.689	.5277	10.21	19.59	9.636	5.468	49.27	.0130	.4236
#1	.0117	.0935	.0069	.0045	.0023	.0044	.0015	3.554	19.90
#2	.0109	.0928	.0080	.0060	.0027	.0041	.0007	3.553	20.02

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	7.550	13.57	3.069	122.8	.0656	.0075	.0003	2.991	.0012
Stddev	.017	.04	.001	.1	.0005	.0000	.0005	.001	.0007
%RSD	.2267	.3171	.0464	.1030	.8231	.6273	162.4	.0248	62.81
#1	7.538	13.54	3.068	122.8	.0660	.0076	.0000	2.991	.0007
#2	7.563	13.60	3.070	122.7	.0653	.0075	.0007	2.992	.0017

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0867	.0129	.0109	.0009	.05	.001	.0002
Stddev	.0001	.0008	.0011	.0001	.005	.001	.0002
%RSD	.1580	6.223	9.954	16.20	.2151	18150.	7.114
#1	.0868	.0134	.0101	.0010	25.14	.0003	.0033
#2	.0866	.0123	.0116	.0008	25.06	.0003	.0030

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	164320.	33492.	2206.6	5979.7
Stddev	8534.	41.	1.4	8.7
%RSD	5.1933	.12119	.06299	.14595
#1	158290.	33521.	2207.6	5973.5
#2	170360.	33463.	2205.7	5985.9

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Sample Name: mp79780-sd1 Acquired: 6/2/2014 19:15:17 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.0579	.0001	.0674	.0101	.0650	.0249	.1419	.0568	.0004
Stddev	.0001	.0000	.0005	.0005	.0006	.0011	.0009	.0019	.0004
%RSD	.2436	21.22	.7976	4.975	.9323	4.366	.6470	3.373	123.5
#1	.0578	.0001	.0670	.0098	.0646	.0241	.1413	.0554	.0000
#2	.0580	.0001	.0677	.0105	.0654	.0257	.1426	.0581	.0007

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0116	.1122	.0058	.0039	.0067	.0067	.0054	3.462	19.75
Stddev	.0011	.0008	.0018	.0041	.0007	.0024	.0019	.037	.19
%RSD	9.694	.6685	31.89	104.8	9.941	35.76	35.49	1.067	.9733
#1	.0124	.1117	.0045	.0068	.0071	.0083	.0041	3.488	19.89
#2	.0108	.1127	.0071	.0010	.0062	.0050	.0068	3.436	19.61

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	7.464	13.08	3.000	118.8	.0911	.0046	.0051	2.823	.0019
Stddev	.084	.13	.009	1.0	.0011	.0002	.0022	.025	.0006
%RSD	1.128	.9859	.2902	.8102	1.200	3.444	42.71	.8864	29.20
#1	7.524	13.18	2.993	119.4	.0903	.0047	.0066	2.806	.0023
#2	7.405	12.99	3.006	118.1	.0918	.0045	.0035	2.841	.0015

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0845	.0129	.0538	.0020	22.58	.0042	.0078
Stddev	.0005	.0008	.0006	.0000	.25	.0031	.0037
%RSD	.6192	5.996	1.142	.1589	1.125	73.01	46.84
#1	.0849	.0135	.0542	.0020	22.40	.0020	.0104
#2	.0841	.0124	.0534	.0020	22.76	.0064	.0052

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	170980.	34094.	2292.0	6347.0
Stddev	1456.	205.	15.3	52.6
%RSD	.85134	.60147	.66790	.82929
#1	172010.	33949.	2302.8	6384.2
#2	169950.	34239.	2281.2	6309.7

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Sample Name: jb67852-2 Acquired: 6/2/2014 19:21:17 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.0108	.0000	.0012	.0015	.0185	.0048	.0898	.0102	.0015
Stddev	.0003	.000	.0001	.0001	.0027	.0025	.0116	.0005	.0021
%RSD	2.489	54.28	5.928	7.635	14.68	52.93	12.96	4.624	140.7
#1	.0106	.0000	.0012	.0014	.0204	.0066	.0981	.0098	-.0030
#2	.0110	-.0001	.0013	.0016	.0166	.0030	.0816	.0105	.0000
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0060	.0142	.0059	.0026	.0031	-.0009	.0001	.4061	21.60
Stddev	.0005	.0010	.0004	.0001	.0006	.0030	.0005	.0102	.35
%RSD	8.967	6.789	6.467	3.351	18.00	349.5	528.4	2.522	1.617
#1	.0064	.0135	.0056	.0025	.0035	-.0030	.0005	.3989	21.35
#2	.0056	.0148	.0061	.0027	.0027	.0013	-.0003	.4134	21.84
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	4.276	5.383	2.449	5.140	.0515	.0127	.0010	1.868	-.0014
Stddev	.061	.070	.040	.068	.0003	.0001	.0007	.022	.0003
%RSD	1.418	1.304	1.637	1.316	.6541	.9048	72.42	1.205	22.65
#1	4.233	5.333	2.421	5.092	.0513	.0126	.0005	1.852	-.0012
#2	4.319	5.432	2.477	5.188	.0518	.0127	.0015	1.884	-.0016
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0803	.0065	-.0169	.0040	4.411	.0005	.0023		
Stddev	.0005	.0009	.0007	.0007	.040	.0004	.0009		
%RSD	.6606	14.08	4.143	17.72	.8992	79.72	37.14		
#1	.0799	.0071	-.0164	.0045	4.383	.0008	.0029		
#2	.0807	.0058	-.0174	.0035	4.439	.0002	.0017		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	*****	33640.	2282.6	6351.5					
Stddev	-----	483.	21.9	54.9					
%RSD	-----	1.4358	.95970	.86466					
#1	-----	33982.	2298.1	6390.4					
#2	164830.	33299.	2267.1	6312.7					

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Sample Name: jb67852-3 Acquired: 6/2/2014 19:27:17 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.0138	.0000	.0016	.0010	.0175	.0139	.0511	.0085	.0000
Stddev	.0001	.000	.0001	.0003	.0005	.0006	.0015	.0002	.0001
%RSD	.5027	68.91	5.230	25.32	3.062	4.026	3.025	2.124	284.8
#1	.0138	.0000	.0015	.0008	.0178	.0143	.0522	.0084	.0000
#2	.0137	.0000	.0016	.0012	.0171	.0135	.0500	.0086	.0001
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0068	.0357	.0066	.0018	.0061	-.0017	-.0012	1.959	5.704
Stddev	.0001	.0004	.0007	.0009	.0003	.0029	.0007	.020	.073
%RSD	2.141	1.010	10.12	48.87	5.278	166.6	53.86	1.014	1.280
#1	.0069	.0354	.0070	.0012	.0059	.0003	-.0008	1.973	5.755
#2	.0067	.0359	.0061	.0024	.0064	-.0038	-.0017	1.945	5.652
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	8.427	1.259	1.669	15.09	.0194	.0056	.0007	3.144	-.0012
Stddev	.086	.023	.013	.16	.0006	.0003	.0000	.075	.0001
%RSD	1.015	1.810	.8005	1.031	3.339	4.684	1.572	2.372	11.23
#1	8.488	1.275	1.678	15.20	.0190	.0054	.0007	3.092	-.0013
#2	8.367	1.243	1.659	14.98	.0199	.0058	.0007	3.197	-.0011
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0369	.0145	-.0156	.0040	1.763	.0010	.0014		
Stddev	.0003	.0003	.0012	.0002	.043	.0004	.0001		
%RSD	.9070	2.282	7.862	5.991	2.431	38.94	6.960		
#1	.0371	.0147	-.0164	.0042	1.733	.0013	.0014		
#2	.0366	.0143	-.0147	.0038	1.794	.0007	.0015		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	171140.	33156.	2286.0	6366.3					
Stddev	4463.	252.	52.1	114.5					
%RSD	2.6081	.75887	2.2808	1.7983					
#1	167980.	32978.	2322.9	6447.2					
#2	174290.	33334.	2249.1	6285.3					

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Sample Name: jb67852-4 Acquired: 6/2/2014 19:33:15 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.0722	-.0001	-.0002	.0004	.0030	.0039	.3372	.0038	-.0002
Stddev	.0007	.0000	.0000	.0002	.0000	.0004	.0065	.0006	.0002
%RSD	.9162	4.220	22.11	46.74	.5061	9.831	1.939	15.98	110.7
#1	.0727	-.0001	-.0002	.0006	.0030	.0041	.3418	.0034	-.0003
#2	.0718	-.0001	-.0001	.0003	.0030	.0036	.3326	.0042	.0000
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0012	.0067	.0017	.0023	.0020	-.0041	.0003	.2046	21.24
Stddev	.0001	.0000	.0003	.0004	.0005	.0002	.0001	.0071	.15
%RSD	6.967	.7080	15.71	17.11	22.75	5.069	21.92	3.455	.6934
#1	.0013	.0067	.0019	.0025	.0017	-.0043	.0003	.2096	21.34
#2	.0011	.0067	.0015	.0020	.0024	-.0040	.0003	.1996	21.13
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	65.94	3.709	5.584	32.32	.0308	.0040	.0061	1.730	-.0019
Stddev	.49	.009	.023	.28	.0000	.0003	.0006	.019	.0008
%RSD	.7441	.2324	.4176	.8706	.1342	6.447	9.830	1.086	40.18
#1	66.28	3.703	5.600	32.52	.0308	.0038	.0065	1.717	-.0014
#2	65.59	3.715	5.567	32.12	.0309	.0042	.0057	1.744	-.0025
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0716	.0035	-.0149	-.0009	.2017	.0026	.0031		
Stddev	.0006	.0001	.0002	.0002	.0017	.0003	.0000		
%RSD	.8431	3.739	1.471	16.39	.8183	12.06	.3655		
#1	.0720	.0034	-.0148	-.0011	.2005	.0024	.0031		
#2	.0712	.0036	-.0151	-.0008	.2029	.0029	.0031		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	168050.	33585.	2248.9	6281.7					
Stddev	2664.	327.	20.7	48.5					
%RSD	1.5852	.97387	.92144	.77195					
#1	166170.	33354.	2263.6	6316.0					
#2	169940.	33817.	2234.2	6247.4					

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Sample Name: jb67852-5 Acquired: 6/2/2014 19:39:14 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.0046	-.0001	-.0002	.0001	.0011	.0001	.0808	.0025	-.0002
Stddev	.0002	.0000	.0001	.0001	.0002	.0002	.0019	.0000	.0003
%RSD	3.903	15.28	29.67	72.61	16.31	192.6	2.411	.2644	156.5
#1	.0048	-.0001	-.0001	.0002	.0009	.0003	.0822	.0025	-.0004
#2	.0045	-.0001	-.0002	.0001	.0012	.0000	.0794	.0025	.0000
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0006	.0050	.0018	.0021	.0015	-.0030	-.0007	.0524	29.83
Stddev	.0000	.0003	.0000	.0007	.0003	.0007	.0003	.0067	.95
%RSD	7.116	6.329	2.276	30.42	22.69	23.38	37.67	12.75	3.191
#1	.0006	.0052	.0017	.0026	.0012	-.0025	-.0009	.0476	29.16
#2	.0007	.0048	.0018	.0017	.0017	-.0034	-.0005	.0571	30.50
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	7.026	3.725	5.071	8.358	.0224	.0003	.0011	1.803	-.0016
Stddev	.237	.125	.131	.294	.0009	.0000	.0001	.016	.0007
%RSD	3.375	3.355	2.585	3.513	4.117	11.78	10.47	.8972	42.01
#1	6.858	3.637	4.978	8.151	.0231	.0002	.0011	1.815	-.0011
#2	7.194	3.814	5.164	8.566	.0218	.0003	.0010	1.792	-.0021
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.1627	.0010	-.0165	-.0010	1.345	.0010	.0012		
Stddev	.0056	.0004	.0004	.0001	.007	.0002	.0000		
%RSD	3.414	41.53	2.515	7.208	.5561	25.14	.0256		
#1	.1588	.0007	-.0167	-.0010	1.350	.0008	.0012		
#2	.1667	.0013	-.0162	-.0009	1.340	.0012	.0012		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	171650.	33720.	2257.5	6293.2					
Stddev	4350.	949.	15.4	44.0					
%RSD	2.5343	2.8131	.68223	.69870					
#1	168570.	34391.	2246.6	6262.1					
#2	174720.	33049.	2268.4	6324.3					

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Sample Name: jb67852-6 Acquired: 6/2/2014 19:45:12 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.0118	-.0001	.0010	.0007	.0095	.0013	.0054	.0060	-.0002
Stddev	.0002	.0000	.0001	.0002	.0001	.0002	.0001	.0001	.0001
%RSD	1.386	.1212	7.889	21.21	.8863	13.08	.9296	1.698	52.34
#1	.0116	-.0001	.0010	.0006	.0095	.0012	.0053	.0060	-.0003
#2	.0119	-.0001	.0011	.0008	.0096	.0014	.0054	.0059	-.0001
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0024	.0130	.0022	.0029	.0072	-.0012	-.0009	.6582	22.57
Stddev	.0000	.0001	.0003	.0001	.0004	.0002	.0002	.0018	.12
%RSD	1.382	.3849	13.06	3.025	5.831	17.56	25.19	.2779	.5471
#1	.0024	.0131	.0020	.0028	.0075	-.0011	-.0011	.6595	22.65
#2	.0024	.0130	.0024	.0029	.0069	-.0014	-.0008	.6569	22.48
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	2.102	3.427	3.555	37.51	.0265	.0029	.0005	1.883	-.0014
Stddev	.004	.056	.005	.11	.0004	.0001	.0003	.017	.0001
%RSD	.2135	1.643	.1328	.2817	1.325	2.040	63.55	.8957	8.211
#1	2.106	3.466	3.558	37.43	.0263	.0030	.0007	1.895	-.0014
#2	2.099	3.387	3.552	37.58	.0268	.0029	.0003	1.871	-.0013
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.1675	.0082	-.0174	.0022	2.142	.0007	.0018		
Stddev	.0001	.0002	.0005	.0000	.007	.0004	.0009		
%RSD	.0864	2.000	2.690	2.062	.3114	52.29	49.46		
#1	.1674	.0083	-.0178	.0022	2.147	.0009	.0024		
#2	.1676	.0081	-.0171	.0021	2.137	.0004	.0012		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	169060.	33949.	2267.7	6289.5					
Stddev	671.	10.	5.9	16.9					
%RSD	.39689	.02922	.26104	.26801					
#1	169540.	33956.	2263.5	6277.6					
#2	168590.	33942.	2271.9	6301.5					

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Sample Name: jb67852-7 Acquired: 6/2/2014 19:51:10 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.0116	-.0001	.0000	.0005	.0049	.0429	.1035	.0049	-.0003
Stddev	.0000	.0000	.0001	.0001	.0002	.0002	.0004	.0002	.0001
%RSD	.1018	26.19	375.2	23.81	3.280	.5670	.3666	.3248	29.85
#1	.0116	-.0001	.0001	.0005	.0048	.0428	.1038	.0050	-.0003
#2	.0116	-.0001	.0000	.0004	.0050	.0431	.1033	.0048	-.0002
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0013	.1349	.0022	.0025	.0039	-.0027	-.0008	.3574	5.731
Stddev	.0001	.0003	.0005	.0016	.0003	.0011	.0002	.0021	.015
%RSD	10.32	.1947	25.40	62.89	7.499	39.34	23.55	.6012	.2567
#1	.0014	.1351	.0025	.0014	.0037	-.0034	-.0007	.3559	5.741
#2	.0012	.1347	.0018	.0036	.0041	-.0019	-.0010	.3589	5.721
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	3.148	1.395	1.502	11.48	.0246	-.0003	.0005	1.391	-.0010
Stddev	.009	.004	.004	.07	.0007	.0000	.0005	.002	.0001
%RSD	.2880	.2994	.2498	.6055	2.806	11.08	100.9	.1563	12.88
#1	3.154	1.392	1.500	11.53	.0251	-.0004	.0002	1.390	-.0009
#2	3.141	1.398	1.505	11.43	.0241	-.0003	.0009	1.393	-.0011
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0298	.0043	-.0177	.0001	5.642	.0005	.0015		
Stddev	.0001	.0004	.0000	.0001	.023	.0005	.0002		
%RSD	.4542	9.840	.1488	76.95	.4119	101.8	13.80		
#1	.0299	.0046	-.0177	.0001	5.625	.0002	.0016		
#2	.0297	.0040	-.0177	.0002	5.658	.0009	.0013		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	169500.	33767.	2277.9	6378.2					
Stddev	50.	107.	9.4	15.8					
%RSD	.02944	.31693	.41342	.24706					
#1	169460.	33691.	2284.5	6389.4					
#2	169530.	33842.	2271.2	6367.1					

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Sample Name: jb67938-2.2 Acquired: 6/2/2014 19:57:10 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	
Avg	-.0002	-.0001	-.0028	.0044	.0198	.9547	.0824	.0966	
Stddev	.0008	.0000	.0006	.0001	.0009	.0290	.0015	.0011	
%RSD	429.1	25.96	21.32	2.318	4.320	3.041	1.793	1.189	
#1	-.0008	-.0002	-.0023	.0043	.0192	.9342	.0813	.0958	
#2	.0004	-.0001	-.0032	.0044	.0204	.9753	.0834	.0974	
Elem	Ag3280	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	
Avg	-.0037	.0152	.2950	3.899	F -.0460	.0739	.3378	.0399	
Stddev	.0017	.0004	.0010	.011	.0054	.0031	.0071	.0019	
%RSD	44.93	2.800	.3489	.2911	11.82	4.240	2.089	4.689	
#1	-.0026	.0149	.2943	3.891	-.0421	.0717	.3328	.0386	
#2	-.0049	.0155	.2958	3.907	-.0498	.0762	.3428	.0412	
Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	
Avg	.0106	.0894	.4762	.1465	1707.	295.6	148.2	.0734	
Stddev	.0121	.0043	.0010	.0267	3.	1.4	4	.0013	
%RSD	113.9	6.253	.2010	18.25	.1904	.4635	.2829	1.817	
#1	.0191	.0725	.4769	.1276	1705.	294.6	147.9	.0743	
#2	.0021	.0663	.4755	.1654	1709.	296.5	148.5	.0724	
Elem	Pd3404	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	
Avg	.0019	1.081	.1396	.0009	-.0016	-.1286	.0146	4.190	
Stddev	.0010	.003	.0049	.0001	.0016	.0000	.0006	.010	
%RSD	52.19	.2271	3.527	15.70	95.75	.0100	4.073	.2297	
#1	.0026	1.079	.1431	.0008	-.0027	-.1286	.0150	4.183	
#2	.0012	1.083	.1361	.0009	-.0005	-.1286	.0142	4.197	
Elem	Bi2230	Li6707							
Avg	-.0164	.0162							
Stddev	.0023	.0004							
%RSD	14.07	2.234							
#1	-.0148	.0165							
#2	-.0180	.0160							

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Sample Name: jb67938-2.2 Acquired: 6/2/2014 19:57:10 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	160090.	32991.	2084.1	6067.5
Stddev	3323.	55.	4.1	14.3
%RSD	2.0758	.16595	.19617	.23552
#1	162440.	33029.	2087.0	6077.6
#2	157740.	32952.	2081.2	6057.4

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Sample Name: ccv Acquired: 6/2/2014 20:03:12 Type: QC
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.003	2.049	1.993	1.978	1.967	1.941	2.073	2.039	2.414
Stddev	.003	.000	.000	.002	.002	.002	.004	.001	.0001
%RSD	.1582	.0196	.0210	.0800	.1213	.0901	.2071	.0399	.0473
#1	2.005	2.050	1.993	1.976	1.966	1.940	2.069	2.038	2.415
#2	2.001	2.049	1.993	1.979	1.969	1.942	2.076	2.040	2.414

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.093	2.038	2.000	2.082	2.048	1.993	1.970	38.75	40.04
Stddev	.001	.001	.002	.000	.000	.005	.002	.00	.00
%RSD	.0643	.0498	.1031	.0108	.0166	.2348	.1215	.0086	.0063
#1	2.092	2.037	2.001	2.082	2.048	1.996	1.968	38.75	40.04
#2	2.094	2.038	1.998	2.081	2.048	1.990	1.972	38.75	40.04

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.61	40.74	39.39	40.16	1.932	2.040	1.858	5.026	2.040
Stddev	.01	.09	.08	.07	.002	.001	.000	.005	.003
%RSD	.0325	.2287	.1935	.1817	.1083	.0598	.0161	.1018	.1349
#1	40.62	40.67	39.45	40.21	1.934	2.041	1.858	5.029	2.042
#2	40.60	40.81	39.34	40.11	1.931	2.039	1.858	5.022	2.038

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

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Sample Name: ccb Acquired: 6/2/2014 20:09:03 Type: QC
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0002	.0001	.0002	.0001	-.0013	.0002	.0002
Stddev	.0002	.0000	.0000	.0002	.0001	.0000	.0000	.0000
%RSD	98.88	14.80	7.096	124.3	80.37	1.803	3.107	14.21
#1	.0003	.0002	.0001	.0003	.0002	-.0013	.0002	.0002
#2	.0000	.0002	.0001	.0000	.0001	-.0013	.0002	.0002

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Ag3280	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0004	.0006	.0008	.0009	.0001	-.0015	.0012
Stddev	.0001	.0002	.0000	.0000	.0001	.0003	.0008	.0001
%RSD	76.48	50.21	1.131	3.999	10.21	266.4	51.81	5.785
#1	.0001	.0006	.0006	.0007	.0009	-.0001	-.0009	.0012
#2	.0000	.0003	.0006	.0008	.0008	.0003	-.0020	.0011

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0003	-.0048	.0048	-.0058	.0856	.0234	W_0141	-.0001
Stddev	.0035	.0012	.0002	.0068	.0148	.0027	.0008	.0001
%RSD	1049.	24.37	4.302	116.6	17.33	11.55	5.504	127.7
#1	.0021	-.0057	.0047	-.0107	.0961	.0253	.0147	.0000
#2	-.0028	-.0040	.0050	-.0010	.0751	.0215	.0136	-.0001

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Warn Chk Pass
High Limit
Low Limit

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Sample Name: ccv Acquired: 6/2/2014 20:03:12 Type: QC
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.054	1.996	1.943	1.951	2.018	1.994	1.996
Stddev	.002	.005	.005	.006	.011	.002	.007
%RSD	.1020	.2312	.2650	.3028	.5498	.0947	.3643
#1	2.056	1.992	1.940	1.947	2.026	1.995	2.001
#2	2.053	1.999	1.947	1.955	2.010	1.993	1.991

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	166340.	32834.	2224.2	6073.8
Stddev	509.	56.	3.1	2.4
%RSD	.30606	.17038	.13971	.03893
#1	166700.	32794.	2222.0	6072.1
#2	165980.	32874.	2226.4	6075.5

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Sample Name: ccb Acquired: 6/2/2014 20:09:03 Type: QC
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pd3404	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005	.0032	.0000	.0003	.0003	-.0098	-.0003	-.0020
Stddev	.0001	.0000	.0004	.0000	.0001	.0013	.0001	.0008
%RSD	18.01	.1337	871.2	8.542	30.90	13.01	28.92	40.46
#1	.0006	.0032	.0003	.0004	.0004	-.0089	-.0003	-.0015
#2	.0004	.0032	-.0002	.0003	.0002	-.0107	-.0004	-.0026

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Bi2230	Li6707
Units	ppm	ppm
Avg	-.0014	.0015
Stddev	.0007	.0003
%RSD	52.14	16.87
#1	-.0019	.0013
#2	-.0009	.0017

Check ? Chk Pass Chk Pass
High Limit
Low Limit

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	170810.	33860.	2322.7	6426.7
Stddev	477.	220.	2.2	.8
%RSD	.27938	.64839	.09653	.01268
#1	171150.	34016.	2324.3	6426.2
#2	170480.	33705.	2321.1	6427.3

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Sample Name: mp79780-1c1 1 Acquired: 6/2/2014 20:15:08 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.5210	.4968	.5228	.4606	.4637	.4948	.4925	.4881	.1964
Stddev	.0007	.0026	.0053	.0047	.0054	.0080	.0042	.0049	.0021
%RSD	.1381	.5235	1.020	1.027	1.167	1.617	.8553	1.009	1.079
#1	.5215	.4986	.5190	.4573	.4598	.4891	.4895	.4846	.1949
#2	.5205	.4950	.5266	.4640	.4675	.5004	.4955	.4916	.1979
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.4846	.5026	.5288	.5436	.4980	.5768	.5403	.5052	.5104
Stddev	.0049	.0046	.0055	.0055	.0053	.0061	.0053	.018	.022
%RSD	1.013	.9116	1.043	1.009	1.061	1.054	.9851	.3600	.4272
#1	.4811	.4994	.5249	.5397	.4942	.5725	.5365	.5065	.5119
#2	.4881	.5059	.5327	.5475	.5017	.5811	.5440	.5040	.5088
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.5541	.5135	.1051	.1090	.0231	.5139	.0035	.0204	-.0001
Stddev	.034	.051	.03	.02	.0004	.0073	.0000	.0006	.0001
%RSD	.6165	.9914	.2850	.2248	1.594	1.411	.7467	3.117	112.9
#1	5.565	5.171	10.53	10.91	.0233	.5088	.0036	.0199	-.0002
#2	5.517	5.099	10.48	10.88	.0228	.5191	.0035	.0208	.0000
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	-.0001	.4914	-.0112	.0005	-.0003	-.0037	.0008		
Stddev	.0000	.0053	.0012	.0001	.0021	.0006	.0007		
%RSD	53.19	1.078	10.89	13.34	747.4	15.97	88.43		
#1	.0000	.4877	-.0103	.0006	.0012	-.0042	.0013		
#2	-.0001	.4952	-.0120	.0005	-.0018	-.0033	.0003		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	176890.	36257.	2142.3	6385.7					
Stddev	2205.	34.	25.7	67.1					
%RSD	1.2463	.09248	1.1995	1.0506					
#1	178450.	36234.	2160.5	6433.1					
#2	175330.	36281.	2124.1	6338.3					

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Sample Name: jb67852-2 Acquired: 6/2/2014 20:21:01 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.0113	.0000	.0014	.0012	.0153	.0043	.0730	.0093	-.0003
Stddev	.0001	.0000	.0001	.0001	.0001	.0002	.0001	.0002	.0001
%RSD	.8431	17.85	7.519	8.231	.3296	4.000	.0799	2.092	46.68
#1	.0114	.0000	.0014	.0013	.0153	.0044	.0731	.0091	-.0002
#2	.0112	.0000	.0015	.0011	.0154	.0042	.0730	.0094	-.0004
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0053	.0131	.0060	.0026	.0025	.0028	-.0011	.4057	19.68
Stddev	.0000	.0001	.0000	.0007	.0010	.0015	.0007	.0042	.03
%RSD	.7391	.6230	.6397	27.46	39.89	53.03	60.60	1.037	.1295
#1	.0052	.0130	.0060	.0021	.0032	.0018	-.0006	.4087	19.66
#2	.0053	.0131	.0061	.0031	.0018	.0039	-.0016	.4027	19.69
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.4115	.4818	.2596	.5441	.0573	.0140	.0012	.2035	-.0013
Stddev	.013	.027	.015	.013	.0003	.0001	.0006	.013	.0009
%RSD	.3089	.5511	.5862	.2347	.4894	.5935	48.22	.6448	71.13
#1	4.106	4.799	2.606	5.432	.0571	.0139	.0016	2.025	-.0006
#2	4.124	4.837	2.585	5.450	.0575	.0140	.0008	2.044	-.0019
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0829	.0059	-.0151	.0035	.4548	.0012	.0017		
Stddev	.0002	.0001	.0003	.0001	.027	.0011	.0004		
%RSD	.1819	1.831	2.274	3.970	.5870	90.36	24.05		
#1	.0830	.0059	-.0148	.0036	4.529	.0020	.0015		
#2	.0828	.0058	-.0153	.0034	4.567	.0004	.0020		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	174660.	36156.	2122.5	6378.0					
Stddev	67.	171.	15.4	27.5					
%RSD	.03863	.47252	.72467	.43129					
#1	174610.	36277.	2133.4	6397.4					
#2	174710.	36035.	2111.6	6358.5					

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Sample Name: cri Acquired: 6/2/2014 20:27:07 Type: QC
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2137	.0022	.0035	.0486	.0094	.0089	.0153	.0096
Stddev	.0003	.0000	.0000	.0003	.0001	.0001	.0002	.0001
%RSD	.1518	.9207	1.293	.6231	.6804	.9913	1.113	.6924
#1	.2135	.0022	.0034	.0484	.0094	.0088	.0152	.0095
#2	.2140	.0022	.0035	.0488	.0095	.0089	.0155	.0096
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								
Elem	Ag3280	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0046	.0520	.0196	.0089	.0110	.0032	.0118	.0072
Stddev	.0001	.0009	.0000	.0007	.0011	.0003	.0012	.0002
%RSD	1.793	1.659	.1929	7.908	10.45	9.579	9.973	2.385
#1	.0047	.0514	.0196	.0094	.0118	.0034	.0126	.0073
#2	.0046	.0527	.0196	.0084	.0102	.0030	.0110	.0071
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								
Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2068	.4744	.1053	.4991	.5365	.5512	.1094	.0212
Stddev	.0066	.003	.0001	.006	.011	.019	.0005	.0000
%RSD	3.206	.0612	.1008	.1143	.2017	.3432	.4167	.0498
#1	.2115	.4746	.1054	.4987	.5358	.5498	.1091	.0212
#2	.2021	.4742	.1052	.4995	.5373	.5525	.1097	.0212
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

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Sample Name: cri Acquired: 6/2/2014 20:27:07 Type: QC
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pd3404	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0543	.2323	.0104	.0114	.0106	.0470	.0100	.0513
Stddev	.0012	.0019	.0008	.0001	.0001	.0013	.0001	.0026
%RSD	2.277	.8061	7.289	.4778	1.174	2.809	.6148	5.067
#1	.0534	.2310	.0109	.0115	.0105	.0461	.0099	.0531
#2	.0552	.2336	.0098	.0114	.0107	.0479	.0100	.0494
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								
Elem	Bi2230	Li6707						
Units	ppm	ppm						
Avg	.0215	W_0247						
Stddev	.0008	.0000						
%RSD	3.508	.1959						
#1	.0209	.0247						
#2	.0220	.0248						
Check ?	Chk Pass	Chk Warn						
Value		.0200						
Range		20.00%						
Int. Std.	Y_3600	Y_3710	Y_2243	In2306				
Units	Cts/S	Cts/S	Cts/S	Cts/S				
Avg	178320.	35905.	2174.7	6408.7				
Stddev	2657.	73.	12.8	33.4				
%RSD	1.4900	.20456	.58820	.52070				
#1	180200.	35957.	2183.8	6432.3				
#2	176440.	35853.	2165.7	6385.1				

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Sample Name: crid Acquired: 6/2/2014 20:33:08 Type: QC
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0040	.0009	.0012	.0029	.0018	F .0009	.0031	.0034
Stddev	.0000	.0000	.0001	.0001	.0001	.0000	.0000	.0003
%RSD	.7196	2.740	7.037	4.667	3.582	3.709	.3183	7.809
#1	.0040	.0010	.0011	.0030	.0018	.0009	.0031	.0036
#2	.0040	.0009	.0012	.0028	.0019	.0009	.0031	.0032

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value						.0020		
Range						-30.00%		

Elem	Ag3280	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009	.0023	F .0130	.0035	.0021	.0026	W .0062	F .0040
Stddev	.0001	.0000	.0002	.0000	.0000	.0012	.0006	.0003
%RSD	5.963	.2290	1.654	.3621	1.912	46.72	9.232	6.956
#1	.0009	.0023	.0132	.0035	.0021	.0035	.0067	.0038
#2	.0009	.0023	.0129	.0035	.0020	.0017	.0058	.0042

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Fail
Value			.0100				.0050	.0030
Range			30.00%				20.00%	30.00%

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0997	.9488	-0.0021	.1081	2.164	1.115	F .0132	-0.0007
Stddev	.0000	.0021	.0001	.0003	.004	.003	.0001	.0001
%RSD	.0469	.2225	3.452	.3109	.1756	.2200	.4988	15.42
#1	.0997	.9503	-0.0021	.1078	2.167	1.117	.0131	-0.0008
#2	.0996	.9473	-0.0022	.1083	2.161	1.113	.0132	-0.0006

Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Fail	None
Value							.0100	
Range							30.00%	

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Sample Name: crid Acquired: 6/2/2014 20:33:08 Type: QC
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pd3404	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009	.0009	.0002	.0000	.0005	F -.0158	F -.0006	F -.0025
Stddev	.0005	.0004	.0009	.0000	.0000	.0004	.0000	.0006
%RSD	50.79	38.28	379.6	83.55	.9137	2.570	2.919	24.11
#1	.0013	.0007	.0009	.0001	.0005	-.0161	-.0006	-.0029
#2	.0006	.0012	-.0004	.0000	.0005	-.0155	-.0007	-.0021

Check ?	None	None	None	None	None	Chk Fail	Chk Fail	Chk Fail
Value						.0040	.0040	.0040
Range						-30.00%	-30.00%	-30.00%

Elem	Bi2230	Li6707
Units	ppm	ppm
Avg	F .0023	F .0005
Stddev	.0002	.0001
%RSD	7.091	17.72
#1	-.0022	.0004
#2	-.0024	.0005

Check ?	Chk Fail	Chk Fail
Value	.0040	.0040
Range	-30.00%	-30.00%

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	175800.	36297.	2178.3	6428.8
Stddev	64.	55.	3.1	3.7
%RSD	.03619	.15075	.14429	.05708
#1	175750.	36336.	2180.5	6426.2
#2	175840.	36258.	2176.0	6431.4

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Sample Name: cria Acquired: 6/2/2014 20:39:13 Type: QC
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0002	.0000	.0000	.0001	-0.0002	-0.0012	.0000	-0.0007	-0.0001
Stddev	.0002	.000	.0000	.0001	.0002	.0000	.000	.0000	.0002
%RSD	123.8	61.70	36.87	84.30	108.0	.8705	181.1	3.284	332.3
#1	.0000	.0000	.0000	.0001	-.0003	-.0012	.0000	-.0007	-.0002
#2	-.0004	-.0001	.0001	.0002	-.0000	-.0012	.0000	-.0007	.0001

Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0008	.0205	-0.004	.0199	.0224	.0213	.4975	-0.0044
Stddev	.0001	.0001	.0006	.0009	.0002	.0012	.0001	.0078	.0006
%RSD	246.3	18.00	2.875	251.3	.9604	5.378	.3601	1.563	14.23
#1	.0000	.0007	.0201	-.0010	.0197	.0233	.0212	.5030	-.0039
#2	.0002	.0009	.0209	.0003	.0200	.0216	.0213	.4920	-.0048

Check ?	None	None	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5079	.0017	.0190	.0175	.0019	-0.0007	.0002	-0.0010	-0.0004
Stddev	.0009	.0043	.0260	.0067	.0003	.0001	.0001	.0003	.0003
%RSD	.1833	248.1	137.0	38.15	14.22	8.622	57.16	28.54	89.42
#1	.5086	.0047	.0374	.0128	.0021	-.0006	.0001	-.0012	-.0001
#2	.5073	-.0013	.0006	.0222	.0017	-.0007	.0002	-.0008	-.0006

Check ?	Chk Pass	None	None	None	None	None	None	None	None
Value									
Range									

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Sample Name: cria Acquired: 6/2/2014 20:39:13 Type: QC
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0001	-0.0167	-0.0005	-0.0008	-0.0020	.0008
Stddev	.0000	.0001	.0006	.0000	.0000	.0005	.0002
%RSD	15.83	92.14	3.487	2.473	.7864	23.91	27.77
#1	.0000	.0000	-.0163	-.0006	-.0008	-.0016	.0007
#2	.0000	.0001	-.0171	-.0005	-.0008	-.0023	.0010

Check ?	None	None	None	None	None	None	None
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	178860.	36864.	2207.4	6531.2
Stddev	202.	10.	5.9	15.9
%RSD	.11285	.02754	.26610	.24408
#1	179010.	36857.	2211.6	6542.5
#2	178720.	36871.	2203.3	6519.9

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Sample Name: icsa Acquired: 6/2/2014 20:45:19 Type: QC
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0006	.0000	-0.0014	.0009	-0.0011	.0085	-0.0023	-0.0016	-0.0042
Stddev	.0000	.000	.0001	.0005	.0001	.0001	.0001	.0001	.0011
%RSD	5.438	149.9	5.898	53.41	14.00	1.639	4.602	4.090	25.36
#1	-.0006	.0000	-.0015	.0012	-.0012	.0086	-.0022	-.0016	-.0034
#2	-.0006	.0000	-.0014	.0005	-.0010	.0084	-.0023	-.0015	-.0050

Check ? High Limit
Low Limit

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	-0.0006	.0017	-0.0028	.0012	-0.0007	.0057	524.8	362.5
Stddev	.0001	.0000	.0013	.0013	.0000	.0024	.0034	5.3	4.8
%RSD	14.57	1.397	77.64	46.55	2.025	353.0	58.76	1.008	1.325
#1	.0004	-.0006	.0027	-.0037	.0012	-.0024	.0033	528.5	365.9
#2	.0005	-.0006	.0008	-.0019	.0012	.0010	.0081	521.1	359.1

Check ? High Limit
Low Limit

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	192.6	529.0	.1576	.0357	.0003	-0.0058	.0162	.0032	.0016
Stddev	1.6	7.3	.0207	.0023	.0008	.0003	.0004	.0004	.0003
%RSD	.8542	1.384	13.14	6.415	303.6	4.739	2.516	12.74	20.78
#1	193.7	534.2	.1722	.0341	.0009	-.0060	.0165	.0035	.0018
#2	191.4	523.9	.1429	.0374	-.0003	-.0056	.0159	.0029	.0013

Check ? High Limit
Low Limit

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Sample Name: icsa Acquired: 6/2/2014 20:45:19 Type: QC
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0042	.0002	-0.0059	-0.0041	-0.0800	-0.0001	.0027
Stddev	.0001	.0001	.0015	.0000	.0012	.0017	.0002
%RSD	2.218	43.69	25.13	.3572	1.497	1102.	8.032
#1	-.0042	.0003	-.0070	-.0041	-.0792	.0010	.0029
#2	-.0041	.0001	-.0049	-.0041	-.0809	-.0013	.0026

Check ? High Limit
Low Limit

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	155910.	32794.	1897.3	5220.7
Stddev	403.	345.	.3	6.4
%RSD	.25834	1.0520	.01532	.12271
#1	156200.	32550.	1897.1	5216.2
#2	155630.	33038.	1897.5	5225.2

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Sample Name: ICSAB Acquired: 6/2/2014 20:51:35 Type: QC
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5552	.5127	1.034	.4506	.4182	.5717	.4601	.9146	1.025
Stddev	.0027	.0008	.006	.0023	.0001	.0008	.0012	.0037	.002
%RSD	.4910	.1531	.5546	.5046	.0311	.1337	.2676	.4035	.1594
#1	.5533	.5121	1.038	.4522	.4183	.5722	.4592	.9172	1.026
#2	.5571	.5132	1.030	.4490	.4181	.5711	.4609	.9120	1.024

Check ? Value
Range

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4577	.8580	1.092	.9280	.8998	1.110	1.085	529.3	366.7
Stddev	.0006	.0052	.005	.0012	.0041	.007	.004	1.3	1.0
%RSD	.1225	.6066	.4710	.1311	.4507	.6268	.4040	.2395	.2801
#1	.4581	.8616	1.096	.9289	.9027	1.115	1.088	530.2	366.0
#2	.4573	.8543	1.088	.9272	.8969	1.106	1.082	528.4	367.4

Check ? Value
Range

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	192.3	543.7	.1178	.0423	.0065	.5005	.5716	-0.0055	.0015
Stddev	.6	.4	.0156	.0038	.0004	.0031	.0010	.0005	.0015
%RSD	.3256	.0784	13.27	8.898	5.996	.6136	.1756	9.164	96.03
#1	191.8	543.4	.1288	.0397	.0063	.5027	.5723	-.0052	.0025
#2	192.7	544.0	.1067	.0450	.0068	.4984	.5709	-.0059	.0005

Check ? Value
Range

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Sample Name: ICSAB Acquired: 6/2/2014 20:51:35 Type: QC
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0043	.0001	.5484	.5715	.4420	F.6121	F.6224
Stddev	.0000	.0000	.0028	.0009	.0044	.0036	.0035
%RSD	.5796	33.20	.5160	.1594	1.007	.5886	.5599
#1	-.0043	.0001	.5504	.5709	.4452	.6147	.6199
#2	-.0043	.0001	.5464	.5722	.4389	.6096	.6249

Check ? Value
Range

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	155060.	32336.	1889.6	5212.4
Stddev	73.	54.	10.2	23.8
%RSD	.04710	.16722	.53771	.45645
#1	155010.	32374.	1882.4	5195.6
#2	155110.	32298.	1896.7	5229.2

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Sample Name: sampleconf Acquired: 6/2/2014 20:57:46 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	2.106	2.018	2.054	1.896	1.837	2.099	1.963	1.945	2.409
Stddev	.035	.034	.023	.019	.010	.018	.012	.023	.0012
%RSD	1.678	1.702	1.103	1.014	.5486	.8326	.6201	1.194	.5153
#1	2.081	1.993	2.038	1.883	1.830	2.087	1.955	1.929	.2401
#2	2.131	2.042	2.070	1.910	1.844	2.112	1.972	1.962	.2418
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	2.030	1.848	2.076	2.081	1.962	2.110	2.139	39.66	36.40
Stddev	.012	.018	.030	.020	.018	.024	.024	.71	.70
%RSD	.5952	.9867	1.471	.9510	.9317	1.148	1.097	1.802	1.917
#1	2.021	1.835	2.054	2.067	1.949	2.093	2.123	39.15	35.90
#2	2.038	1.861	2.097	2.095	1.974	2.127	2.156	40.16	36.89
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	38.96	37.12	41.09	42.65	2.064	2.113	2.001	5.442	2.047
Stddev	.70	.70	.78	.80	.027	.025	.015	.062	.023
%RSD	1.809	1.878	1.898	1.887	1.305	1.186	.7623	1.141	1.112
#1	38.46	36.62	40.54	42.08	2.045	2.095	1.990	5.398	2.031
#2	39.46	37.61	41.64	43.21	2.083	2.130	2.011	5.486	2.063
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	2.133	1.971	1.992	1.973	2.054	F 2.236	F 2.206		
Stddev	.038	.015	.031	.018	.025	.028	.038		
%RSD	1.790	.7382	1.556	.8935	1.207	1.254	1.740		
#1	2.106	1.960	1.970	1.960	2.037	2.216	2.179		
#2	2.160	1.981	2.014	1.985	2.072	2.256	2.233		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	168090.	35076.	2067.5	5975.7					
Stddev	1152.	610.	22.5	58.3					
%RSD	.68532	1.7396	1.0876	.97539					
#1	168900.	35507.	2083.4	6016.9					
#2	167270.	34644.	2051.6	5934.5					

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Sample Name: ccv Acquired: 6/2/2014 21:04:17 Type: QC
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.039	1.955	2.040	1.893	1.810	2.067	1.937	1.942	2.366
Stddev	.036	.036	.001	.001	.015	.028	.016	.000	.0028
%RSD	1.746	1.861	.0535	.0554	.8406	1.350	.8189	.0034	1.178
#1	2.014	1.930	2.040	1.892	1.800	2.047	1.926	1.942	.2346
#2	2.064	1.981	2.039	1.894	1.821	2.086	1.948	1.942	.2385
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.999	1.843	2.065	2.071	1.957	2.098	2.124	38.46	F 35.30
Stddev	.017	.003	.006	.011	.001	.008	.002	.69	.75
%RSD	.8651	.1466	.3051	.5487	.0535	.3960	.0735	1.793	2.121
#1	1.987	1.845	2.070	2.079	1.957	2.104	2.123	37.97	34.77
#2	2.012	1.841	2.061	2.063	1.956	2.092	2.125	38.95	35.83
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value									40.00
Range									-10.00%
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	37.73	F 35.96	39.93	41.31	2.048	2.099	1.977	5.400	2.034
Stddev	.77	.79	.67	.80	.002	.004	.028	.006	.003
%RSD	2.050	2.206	1.672	1.926	.0769	.1649	1.428	.1142	.1327
#1	37.18	35.40	39.46	40.74	2.049	2.102	1.957	5.404	2.036
#2	38.27	36.52	40.41	41.87	2.047	2.097	1.997	5.395	2.032
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value		40.00							
Range		-10.00%							

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Sample Name: ccv Acquired: 6/2/2014 21:04:17 Type: QC
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.070	1.944	1.999	1.950	2.040	F 2.215	2.136
Stddev	.035	.018	.002	.018	.003	.001	.039
%RSD	1.700	.8987	.0943	.9470	.1465	.0452	1.826
#1	2.045	1.932	1.997	1.937	2.042	2.215	2.109
#2	2.094	1.956	2.000	1.963	2.038	2.216	2.164
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value						2.000	
Range						10.00%	
Int. Std.	Y_3600	Y_3710	Y_2243	In2306			
Units	Cts/S	Cts/S	Cts/S	Cts/S			
Avg	170130.	35951.	2083.0	5999.8			
Stddev	1212.	622.	4.0	2.2			
%RSD	.71249	1.7293	.19123	.03605			
#1	170990.	36391.	2080.2	5998.3			
#2	169270.	35512.	2085.8	6001.3			

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Sample Name: ccb Acquired: 6/2/2014 21:11:30 Type: QC
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0002	.0004	.0002	.0000	.0008	.0002	.0008	.0002
Stddev	.0003	.0000	.0000	.0001	.0001	.0002	.0001	.0000	.0003
%RSD	178800.	16.82	4.816	58.90	580.3	19.02	31.69	3.401	122.2
#1	.0002	.0003	.0005	.0001	.0001	.0007	.0002	.0008	.0004
#2	.0002	.0002	.0004	.0003	.0001	.0009	.0001	.0007	.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0004	.0004	.0005	.0002	.0013	.0012	.0011	.0008
Stddev	.0002	.0001	.0004	.0000	.0002	.0008	.0001	.0011	.0006
%RSD	75.56	26.05	102.0	6.697	130.5	59.59	8.213	98.87	8.341
#1	.0004	.0003	.0001	.0005	.0000	.0018	.0011	.0019	.0072
#2	.0001	.0005	.0007	.0005	.0003	.0007	.0013	.0003	.0064
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0048	.0047	.0409	.0203	.0017	.0006	.0008	.0052	.0001
Stddev	.0002	.0029	.0117	.0019	.0002	.0001	.0001	.0006	.0005
%RSD	3.368	61.03	28.62	9.510	8.770	17.16	16.00	10.50	405.6
#1	.0047	.0027	.0491	.0217	.0016	.0007	.0007	.0049	.0002
#2	.0049	.0068	.0326	.0190	.0018	.0005	.0009	.0056	.0005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

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Sample Name: ccb Acquired: 6/2/2014 21:11:30 Type: QC							
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000							
User: admin Custom ID1: Custom ID2: Custom ID3:							
Comment:							
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	.0003	-.0077	-.0001	-.0045	-.0022	.0014
Stddev	.0000	.0003	.0014	.0001	.0013	.0010	.0002
%RSD	7.856	112.0	18.05	56.63	29.93	46.15	14.53
#1	.0004	.0005	-.0067	-.0001	-.0054	-.0015	.0016
#2	.0003	.0001	-.0087	-.0002	-.0035	-.0029	.0013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							
Int. Std.	Y_3600	Y_3710	Y_2243	In2306			
Units	Cts/S	Cts/S	Cts/S	Cts/S			
Avg	179910.	37409.	2194.8	6535.8			
Stddev	235.	64.	2.2	8.6			
%RSD	.13034	.17090	.09950	.13112			
#1	179740.	37364.	2196.4	6529.7			
#2	180080.	37454.	2193.3	6541.9			

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Sample Name: jb68005-1 Acquired: 6/2/2014 21:17:49 Type: Unk										
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000										
User: admin Custom ID1: Custom ID2: Custom ID3:										
Comment:										
Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280	
Avg	.0063	.0000	-.0018	.0006	.0010	.0006	.0282	.0001	-.0002	
Stddev	.0001	.0000	.0000	.0000	.0000	.0001	.0001	.0001	.0001	
%RSD	1.543	451.9	2.246	8.075	4.343	22.02	.3955	106.6	53.24	
#1	.0064	.0000	-.0018	.0005	.0010	.0007	.0283	.0000	-.0001	
#2	.0062	.0000	-.0018	.0006	.0010	.0005	.0281	.0002	-.0002	
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179	
Avg	.0006	.0031	1.165	-.0017	.0001	.0044	.2059	.0598	4.551	
Stddev	.0002	.0001	.008	.0003	.0006	.0001	.0014	.0005	.004	
%RSD	25.43	2.595	.7014	16.55	485.2	2.226	.6911	.8315	.0955	
#1	.0005	.0030	1.160	-.0015	.0006	.0043	.2049	.0594	4.548	
#2	.0007	.0032	1.171	-.0019	-.0003	.0045	.2069	.0601	4.554	
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899	
Avg	1.645	.5423	.5570	.9540	.0401	.0001	.0009	2.282	.0077	
Stddev	.001	.0047	.0174	.0037	.0004	.0001	.0004	.020	.0002	
%RSD	.0432	.8743	3.127	.3883	.9678	92.93	39.28	.8740	2.163	
#1	1.645	.5390	.5447	.9566	.0404	.0000	.0012	2.268	.0076	
#2	1.644	.5457	.5694	.9514	.0398	.0002	.0007	2.296	.0078	
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707			
Avg	.0225	.0023	-.0111	.0037	5.855	-.0023	.0020			
Stddev	.0000	.0001	.0001	.0003	.033	.0001	.0006			
%RSD	.0209	4.530	.8452	8.890	.5687	5.186	29.69			
#1	.0225	.0023	-.0110	.0039	5.831	-.0024	.0024			
#2	.0225	.0024	-.0112	.0035	5.878	-.0022	.0016			
Int. Std.	Y_3600	Y_3710	Y_2243	In2306						
Avg	177110.	36238.	2115.8	6436.0						
Stddev	197.	40.	11.3	40.5						
%RSD	.11139	.11129	.53384	.62904						
#1	177240.	36210.	2123.8	6464.7						
#2	176970.	36267.	2107.8	6407.4						

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Sample Name: jb68005-1 Acquired: 6/2/2014 21:23:48 Type: Unk									
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000									
User: admin Custom ID1: Custom ID2: Custom ID3:									
Comment:									
Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.0074	.0001	.0010	.0005	.0009	.0012	.0283	.0009	-.0004
Stddev	.0015	.0000	.0044	.0003	.0000	.0002	.0000	.0000	.0005
%RSD	20.18	70.53	459.3	57.26	.0779	17.76	.1317	.7128	110.8
#1	.0085	.0001	.0040	.0007	.0009	.0010	.0282	.0009	-.0008
#2	.0064	.0000	-.0021	.0003	.0009	.0013	.0283	.0009	-.0001
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0005	.0035	1.222	.0021	.0005	-.0007	.2278	.0643	5.371
Stddev	.0002	.0002	.003	.0001	.0003	.0000	.0009	.0135	1.198
%RSD	37.70	5.823	.2320	3.673	57.61	1.322	.3877	21.06	22.31
#1	.0003	.0033	1.220	.0020	.0003	-.0008	.2284	.0739	6.218
#2	.0006	.0036	1.224	.0022	.0007	-.0007	.2272	.0547	4.523
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	1.919	.6237	.6477	1.146	.0431	-.0006	.0011	2.556	.0017
Stddev	.412	.1424	.1048	.242	.0000	.0001	.0002	.006	.0004
%RSD	21.48	22.83	16.18	21.14	.0064	10.95	19.12	.2453	24.78
#1	2.211	.7244	.7219	1.317	.0431	-.0006	.0009	2.560	.0020
#2	1.628	.5230	.5736	.9746	.0431	-.0006	.0012	2.552	.0014
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0270	.0023	-.0165	-.0006	4.010	.0006	.0009		
Stddev	.0060	.0003	.0007	.0002	.003	.0002	.0003		
%RSD	22.35	13.17	4.167	44.94	.0735	33.47	35.22		
#1	.0313	.0026	-.0170	-.0004	4.012	.0007	.0011		
#2	.0228	.0021	-.0160	-.0007	4.008	.0004	.0007		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	178260.	*****	2123.9	6530.2					
Stddev	295.	-----	2.9	6.7					
%RSD	.16568	-----	.13675	.10257					
#1	178470.	-----	2121.9	6525.5					
#2	178050.	37108.	2126.0	6535.0					

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Sample Name: jb68005-1undigconf Acquired: 6/2/2014 21:29:48 Type: Unk									
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000									
User: admin Custom ID1: Custom ID2: Custom ID3:									
Comment:									
Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	
Avg	.0060	.0000	-.0017	-.0009	.0004	-.0007	.0250	.0003	
Stddev	.0001	.0000	.0002	.0001	.0004	.0001	.0002	.0003	
%RSD	2.470	18.85	10.16	6.316	84.86	7.673	.6012	117.1	
#1	.0061	.0000	-.0018	-.0009	.0002	-.0006	.0251	.0000	
#2	.0059	.0000	-.0016	-.0008	.0007	-.0007	.0249	.0005	
Elem	Ag3280	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	
Avg	.0013	.0009	-.0030	1.427	F -.0268	.0054	.0951	.2526	
Stddev	.0001	.0000	.0001	.037	.0016	.0003	.0000	.0072	
%RSD	5.576	2.653	3.380	2.624	6.091	5.621	.0260	2.838	
#1	.0013	.0009	-.0031	1.400	-.0256	.0051	.0951	.2476	
#2	.0012	.0010	-.0029	1.453	-.0279	.0056	.0951	.2577	
Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	
Avg	.0386	4.514	1.612	.5341	.7270	.9131	.0352	-.0009	
Stddev	.0008	.007	.001	.0005	.0014	.0035	.0007	.0001	
%RSD	1.957	.1524	.0624	.0875	.1967	.3780	1.866	12.70	
#1	.0380	4.519	1.611	.5344	.7280	.9156	.0347	-.0008	
#2	.0391	4.510	1.613	.5337	.7260	.9107	.0357	-.0010	
Elem	Pd3404	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	
Avg	.0029	F 65.51	.0253	.0229	.0002	-.0042	F -.0107	.6640	
Stddev	.0006	3.10	.0014	.0000	.0003	.0021	.0005	.63	
%RSD	21.58	4.727	5.560	.1553	144.1	50.85	4.408	.9456	
#1	.0033	63.32	.0243	.0229	.0000	-.0027	-.0104	65.96	
#2	.0024	67.70	.0263	.0229	.0005	-.0057	-.0111	66.84	
Elem	Bi2230	Li6707							
Avg	-.0064	.0010							
Stddev	.0004	.0004							
%RSD	6.769	38.65							
#1	-.0061	.0013							
#2	-.0068	.0008							

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Sample Name: jb68005-1undigconf Acquired: 6/2/2014 21:29:48 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	173200.	36479.	2030.0	6726.1
Stddev	106.	10.	42.5	153.1
%RSD	.06134	.02823	2.0918	2.2756
#1	173280.	36486.	2060.0	6834.4
#2	173130.	36471.	2000.0	6617.9

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Sample Name: jb67815-1 2 Acquired: 6/2/2014 21:35:45 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	168910.	35035.	2015.9	5642.7
Stddev	92.	73.	16.1	23.0
%RSD	.05442	.20948	.79872	.40838
#1	168840.	35087.	2004.6	5626.5
#2	168970.	34983.	2027.3	5659.0

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Sample Name: jb67815-1 2 Acquired: 6/2/2014 21:35:45 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Avg	.9097	.0070	.0020	.0554	.2667	.4485	2.598	.2051
Stddev	.0002	.0000	.0003	.0000	.0009	.0002	.004	.0004
%RSD	.0231	.1171	13.22	.0215	.3426	.0449	.1501	.2119
#1	.9096	.0070	.0018	.0555	.2661	.4487	2.595	.2055
#2	.9098	.0070	.0022	.0554	.2674	.4484	2.601	.2048
Elem	Ag3280	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068
Avg	-.0003	.3944	.9838	.0501	F -.0063	.6557	.0062	.0148
Stddev	.0008	.0008	.0063	.0007	.0000	.0015	.0006	.0003
%RSD	283.7	.1927	.6431	1.443	.7197	.2359	10.42	2.168
#1	-.0009	.3938	.9883	.0506	-.0063	.6568	.0058	.0150
#2	.0003	.3949	.9794	.0496	-.0064	.6546	.0067	.0146
Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Avg	140.3	209.9	175.2	93.86	14.06	1.128	.0555	.0069
Stddev	.2	2.0	1.5	.17	.04	.007	.0007	.0003
%RSD	.1384	.9729	.8610	.1783	.3023	.6137	1.227	4.607
#1	140.1	208.5	174.1	93.74	14.03	1.123	.0560	.0071
#2	140.4	211.3	176.3	93.98	14.09	1.133	.0551	.0067
Elem	Pd3404	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820
Avg	.0125	9.582	.0515	.3374	3.023	.0024	.0658	4.008
Stddev	.0003	.098	.0001	.0004	.008	.0000	.0003	.062
%RSD	2.649	1.019	.2706	.1052	.2761	.6828	.4020	1.539
#1	.0123	9.651	.0514	.3376	3.017	.0024	.0656	4.052
#2	.0127	9.513	.0516	.3371	3.029	.0024	.0660	3.964
Elem	Bi2230	Li6707						
Avg	-.0009	.1373						
Stddev	.0001	.0005						
%RSD	14.15	.3978						
#1	-.0010	.1369						
#2	-.0008	.1377						

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Sample Name: jb67815-8 Acquired: 6/2/2014 21:41:50 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Avg	2.406	.0088	.0158	.0775	.4271	1.378	7.196	.3999
Stddev	.007	.0000	.0002	.0008	.0008	.002	.054	.0012
%RSD	.3083	.3519	1.546	1.048	.1780	.1666	.7472	.2883
#1	2.411	.0087	.0159	.0770	.4266	1.380	7.234	.3991
#2	2.401	.0088	.0156	.0781	.4276	1.376	7.157	.4008
Elem	Ag3280	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068
Avg	.0066	.8017	3.284	.0685	F -.0042	2.969	.0035	.0330
Stddev	.0003	.0013	.009	.0005	.0018	.010	.0008	.0021
%RSD	3.910	.1622	.2685	.7015	42.11	.3354	22.12	6.367
#1	.0064	.8027	3.278	.0682	-.0054	2.962	.0030	.0315
#2	.0068	.8008	3.290	.0689	-.0029	2.976	.0041	.0345
Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Avg	142.8	360.1	201.9	140.2	11.46	5.297	.5614	.0214
Stddev	.2	.5	.0	.2	.03	.008	.0031	.0001
%RSD	.1534	.1411	.0147	.1341	.2983	.1533	.5526	.3760
#1	142.9	359.8	201.9	140.1	11.48	5.303	.5592	.0215
#2	142.6	360.5	202.0	140.3	11.43	5.292	.5636	.0214
Elem	Pd3404	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820
Avg	.0168	12.15	.1149	.8480	11.48	.0231	.3809	15.81
Stddev	.0005	.03	.0013	.0023	.01	.0012	.0008	.03
%RSD	2.884	.2125	1.147	.2698	.0470	5.016	.2101	.1910
#1	.0165	12.13	.1140	.8497	11.48	.0239	.3815	15.79
#2	.0171	12.17	.1158	.8464	11.48	.0222	.3803	15.83
Elem	Bi2230	Li6707						
Avg	.0116	.1457						
Stddev	.0003	.0003						
%RSD	2.211	.2149						
#1	.0118	.1459						
#2	.0114	.1455						

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Sample Name: jb67815-8 Acquired: 6/2/2014 21:41:50 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	166280.	34423.	1968.3	5503.7
Stddev	564.	68.	3.7	8.4
%RSD	.33891	.19887	.19025	.15300
#1	165880.	34374.	1971.0	5509.7
#2	166680.	34471.	1965.7	5497.8

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Sample Name: jb67815-12 Acquired: 6/2/2014 21:48:04 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	167380.	34732.	2007.4	5581.8
Stddev	224.	55.	2.0	15.4
%RSD	.13399	.15854	.10057	.27563
#1	167540.	34771.	2006.0	5570.9
#2	167220.	34693.	2008.8	5592.6

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Sample Name: jb67815-12 Acquired: 6/2/2014 21:48:04 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Avg	.8806	.0072	.0060	.0677	.3614	1.072	2.539	.5153
Stddev	.0018	.0000	.0002	.0004	.0001	.001	.002	.0015
%RSD	.2003	.4853	3.227	.6403	.0308	.1085	.0698	.2867
#1	.8818	.0072	.0061	.0674	.3614	1.071	2.541	.5164
#2	.8793	.0072	.0058	.0680	.3613	1.073	2.538	.5143
Elem	Ag3280	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068
Avg	-.0007	.3413	1.709	.0602	F -.0090	.4510	F -.0168	.0119
Stddev	.0004	.0002	.001	.0001	.0004	.0026	.0015	.0008
%RSD	58.61	.0693	.0434	.2162	4.588	.5705	8.708	6.692
#1	-.0010	.3411	1.708	.0602	-.0093	.4528	-.0179	.0114
#2	-.0004	.3415	1.709	.0603	-.0087	.4492	-.0158	.0125
Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Avg	115.0	325.4	183.9	114.7	9.857	.7666	.0515	.0216
Stddev	.3	5.4	1.4	.6	.034	.0057	.0005	.0001
%RSD	.2403	1.664	.7762	.5126	.3434	.7387	.9451	.6669
#1	115.2	321.6	182.9	114.3	9.881	.7706	.0512	.0215
#2	114.8	329.3	184.9	115.1	9.833	.7626	.0519	.0217
Elem	Pd3404	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820
Avg	-.0002	9.269	.0495	.6439	2.696	.2361	.0647	7.251
Stddev	.0004	.033	.0002	.0018	.004	.0007	.0004	.013
%RSD	155.7	.3605	.5007	.2797	.1567	.3150	.6762	.1793
#1	-.0005	9.293	.0496	.6452	2.693	.2367	.0644	7.241
#2	.0000	9.245	.0493	.6426	2.699	.2356	.0650	7.260
Elem	Bi2230	Li6707						
Avg	-.0057	.1053						
Stddev	.0003	.0003						
%RSD	5.525	.2477						
#1	-.0060	.1055						
#2	-.0055	.1051						

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Sample Name: jb67815-13 Acquired: 6/2/2014 21:54:08 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Avg	.6596	.0054	.0043	.0594	.3046	.5608	2.438	.4282
Stddev	.0018	.0000	.0002	.0003	.0003	.0001	.004	.0010
%RSD	.2763	.7992	5.170	.5624	.0821	.0193	.1601	.2439
#1	.6609	.0054	.0045	.0596	.3048	.5607	2.435	.4290
#2	.6583	.0053	.0042	.0591	.3044	.5608	2.441	.4275
Elem	Ag3280	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068
Avg	-.0002	.3749	1.307	.0461	F -.0075	.5344	-.0035	.0126
Stddev	.0004	.0003	.003	.0002	.0001	.0014	.0007	.0006
%RSD	286.4	.0891	.2601	.4878	.7988	.2546	20.61	4.372
#1	.0002	.3747	1.310	.0463	-.0076	.5354	-.0040	.0122
#2	-.0005	.3752	1.305	.0459	-.0075	.5335	-.0030	.0130
Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Avg	106.7	232.7	186.1	92.01	9.738	1.008	.0479	.0177
Stddev	.4	.9	1.0	.03	.034	.010	.0002	.0001
%RSD	.3852	.3963	.5238	.0316	.3495	1.014	.3156	.3146
#1	107.0	233.3	186.8	92.03	9.762	1.015	.0478	.0177
#2	106.4	232.0	185.4	91.99	9.714	1.000	.0480	.0176
Elem	Pd3404	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820
Avg	.0104	10.54	.0609	.4669	2.717	.0806	.0621	7.105
Stddev	.0008	.05	.0007	.0017	.000	.0006	.0000	.057
%RSD	7.433	.4976	1.089	.3597	.0005	.7374	.0056	.7995
#1	.0110	10.58	.0614	.4681	2.717	.0802	.0622	7.145
#2	.0099	10.50	.0605	.4657	2.717	.0810	.0621	7.065
Elem	Bi2230	Li6707						
Avg	-.0022	.0982						
Stddev	.0004	.0010						
%RSD	18.57	1.044						
#1	-.0025	.0989						
#2	-.0019	.0975						

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Sample Name: jb67815-13 Acquired: 6/2/2014 21:54:08 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	170030.	35126.	2048.1	5774.3
Stddev	148.	133.	9.5	17.7
%RSD	.08715	.37783	.46199	.30641

#1	169930.	35032.	2041.4	5761.8
#2	170140.	35220.	2054.8	5786.9

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Sample Name: jb67815-15 Acquired: 6/2/2014 22:00:13 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.1815	.0048	.0030	.0615	.0697	1.072	.7506	.0889	.0012
Stddev	.0002	.0000	.0001	.0000	.0001	.001	.0017	.0001	.0002
%RSD	.1147	.1259	4.612	.0514	.1918	.1212	.2244	.0792	14.56

#1	.1817	.0048	.0031	.0615	.0698	1.073	.7518	.0889	.0010
#2	.1814	.0048	.0029	.0616	.0696	1.071	.7495	.0888	.0013

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0886	.4433	.0206	.0003	.7685	.0053	.0144	58.89	14.02
Stddev	.0000	.0001	.0001	.0008	.0005	.0005	.0006	.11	.01
%RSD	.0199	.0309	.7150	282.0	.0589	9.762	4.144	.1906	.0718

#1	.0886	.4434	.0207	.0003	.7682	.0056	.0140	58.81	14.03
#2	.0886	.4432	.0205	.0008	.7688	.0049	.0149	58.97	14.01

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	64.27	14.45	5.808	8.657	.1151	.0170	.0056	3.864	2233
Stddev	.01	.01	.012	.042	.0006	.0001	.0000	.002	.0007
%RSD	.0131	.0570	.2021	.4817	.5429	.3982	.6999	.0571	.3279

#1	64.27	14.44	5.799	8.627	.1147	.0170	.0055	3.865	2228
#2	64.28	14.45	5.816	8.686	.1156	.0169	.0056	3.862	2238

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Avg	.2300	.6334	.0093	.0072	64.45	.0033	.1158
Stddev	.0002	.0003	.0004	.0001	.11	.0001	.0002
%RSD	.0675	.0480	4.620	.9413	.1710	2.107	.1881

#1	.2299	.6336	.0090	.0072	64.37	.0032	.1159
#2	.2301	.6332	.0096	.0071	64.53	.0033	.1156

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	180750.	36619.	2209.4	6349.0
Stddev	493.	41.	6.4	15.1
%RSD	.27297	.11272	.29114	.23786

#1	180410.	36648.	2213.9	6359.7
#2	181100.	36590.	2204.9	6338.3

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Sample Name: mp79732-lc1 1 Acquired: 6/2/2014 22:06:08 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.5071	.4746	.5065	.4409	.4893	.4817	.4793	.4680	.1911
Stddev	.0001	.0005	.0014	.0010	.0009	.0003	.0003	.0014	.0007
%RSD	.0262	.0976	.2742	.2206	.2082	.0611	.0666	.3067	.3605

#1	.5070	.4749	.5055	.4416	.4499	.4819	.4795	.4670	.1906
#2	.5072	.4743	.5075	.4402	.4486	.4815	.4790	.4690	.1916

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.4689	.4805	.5089	.5179	.4786	.5600	.5222	4.873	4.867
Stddev	.0003	.0002	.0011	.0012	.0005	.0026	.0027	.004	.005
%RSD	.0720	.0359	.2147	.2396	.1007	.4563	.5224	.0710	.0956

#1	.4687	.4806	.5097	.5170	.4783	.5618	.5203	4.876	4.870
#2	.4692	.4804	.5081	.5188	.4789	.5582	.5242	4.871	4.864

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	5.345	4.920	10.24	10.57	.0093	.4937	.0031	.0289	.0006
Stddev	.001	.011	.04	.00	.0001	.0016	.0000	.0014	.0004
%RSD	.0137	.2317	.3761	.0348	.7325	.3264	.2327	4.895	59.20

#1	5.346	4.928	10.27	10.58	.0093	.4926	.0031	.0279	.0004
#2	5.345	4.912	10.21	10.57	.0094	.4949	.0031	.0299	.0009

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Avg	.0001	.4789	.0135	.0007	.0119	.0032	.0008
Stddev	.0000	.0009	.0008	.0001	.0006	.0006	.0000
%RSD	37.38	.1839	6.013	18.72	5.023	17.57	6.226

#1	.0001	.4795	.0140	.0008	.0115	.0036	.0008
#2	.0001	.4782	.0129	.0006	.0123	.0028	.0008

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	177100.	36539.	2155.8	6452.1
Stddev	218.	55.	5.0	6.4
%RSD	.12301	.15114	.23010	.09981

#1	176940.	36500.	2159.3	6456.6
#2	177250.	36578.	2152.3	6447.5

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Sample Name: ccv Acquired: 6/2/2014 22:12:02 Type: QC
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.991	1.876	2.023	1.853	1.809	2.075	1.938	1.904	.2372
Stddev	.135	.126	.011	.006	.012	.018	.011	.010	.0028
%RSD	6.795	6.692	.5202	.3484	.6375	.8569	.5415	.5204	1.173

#1	2.086	1.965	2.016	1.848	1.817	2.088	1.945	1.897	.2391
#2	1.895	1.787	2.031	1.858	1.801	2.063	1.930	1.911	.2352

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.997	F 1.799	2.038	2.028	1.926	2.073	2.109	37.24	F 33.92
Stddev	.010	.010	.009	.006	.012	.009	.009	2.46	2.16
%RSD	.5138	.5411	.4526	.4552	.2933	.5535	.4172	6.616	6.368

#1	2.005	1.792	2.032	2.021	1.922	2.065	2.102	38.98	35.44
#2	1.990	1.806	2.045	2.034	1.930	2.081	2.115	35.50	32.39

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value		2.000							40.00
Range		-10.00%							-10.00%

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	36.54	F 34.63	38.89	40.15	2.029	2.066	1.988	5.369	2.008
Stddev	2.41	2.24	2.50	2.72	.011	.010	.016	.028	.011
%RSD	6.601	6.460	6.419	6.779	.5360	.4750	.7778	.5116	.5281

#1	38.24	36.22	40.65	42.07	2.022	2.059	1.999	5.350	2.000
#2	34.83	33.05	37.12	38.22	2.037	2.073	1.977	5.389	2.015

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value		40.00							
Range		-10.00%							

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Sample Name: ccv Acquired: 6/2/2014 22:12:02 Type: QC
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.021	1.947	1.948	1.946	2.018	F 2.209	2.070
Stddev	.134	.014	.016	.011	.014	.009	.144
%RSD	6.621	.6996	.8276	.5504	.6923	.4009	6.969
#1	2.116	1.957	1.937	1.953	2.008	2.202	2.172
#2	1.926	1.937	1.960	1.938	2.028	2.215	1.968

Check ?
Value
Range

Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
						2.000	
						10.00%	

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	171160.	37336.	2107.0	6101.0
Stddev	973.	1971.	7.9	23.6
%RSD	.56848	5.2803	.37342	.38731

#1	170470.	35942.	2112.6	6117.7
#2	171850.	38730.	2101.4	6084.3

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Sample Name: ccb Acquired: 6/2/2014 22:17:53 Type: QC
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0002	.0004	.0000	.0003	-.0008	.0002	-.0009
Stddev	.0000	.0000	.0000	.000	.0001	.0002	.0000	.0003
%RSD	388.0	1.565	10.80	6852.	22.83	25.37	12.63	30.39
#1	.0000	.0002	.0004	-.0001	.0003	-.0009	.0002	-.0011
#2	.0000	.0002	.0004	.0001	.0002	-.0006	.0003	-.0007

Check ?
High Limit
Low Limit

Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass

Elem	Ag3280	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	.0004	.0005	-.0004	.0006	-.0003	.0014	.0018
Stddev	.0001	.0001	.0001	.0005	.0003	.0004	.0011	.0004
%RSD	42.31	24.43	13.16	119.5	43.12	150.4	80.26	21.90

#1	-.0002	.0003	.0004	-.0001	.0004	.0000	.0006	.0015
#2	-.0001	.0004	.0005	-.0007	.0008	-.0005	.0022	.0021

Check ?
High Limit
Low Limit

Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0020	-.0084	.0040	.0017	.0640	.0177	.0002	.0005
Stddev	.0017	.0001	.0000	.0160	.0170	.0035	.0001	.0001
%RSD	84.19	1.315	1.003	915.6	26.56	19.54	30.34	17.43

#1	-.0032	-.0084	.0040	.0130	.0760	.0153	.0002	.0006
#2	-.0008	-.0085	.0040	-.0095	.0519	.0202	.0003	.0004

Check ?
High Limit
Low Limit

Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass

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11.2

11

Sample Name: ccb Acquired: 6/2/2014 22:17:53 Type: QC
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pd3404	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011	.0120	.0000	.0003	.0004	-.0100	.0000	W .0070
Stddev	.0001	.0010	.000	.0001	.0001	.0012	.0000	.0006
%RSD	9.065	8.335	921.8	23.12	16.09	11.69	369.9	8.099
#1	.0011	.0113	-.0003	.0003	.0004	-.0092	.0000	.0074
#2	.0010	.0127	.0002	.0002	.0005	-.0108	.0000	.0066

Check ?
High Limit
Low Limit

Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn
								.0050
								-.0050

Elem	Bi2230	Li6707
Units	ppm	ppm
Avg	-.0014	.0011
Stddev	.0007	.0000
%RSD	47.56	.6486

#1	-.0019	.0011
#2	-.0009	.0011

Check ?
High Limit
Low Limit

Chk Pass	Chk Pass

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	179180.	36635.	2205.0	6561.2
Stddev	385.	5.	3.2	11.1
%RSD	.21470	.01299	.14461	.16887

#1	178910.	36631.	2207.2	6569.0
#2	179450.	36638.	2202.7	6553.4

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Sample Name: mp79732-mb1 1 Acquired: 6/2/2014 22:23:58 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: epa tl

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0002	.0000	.0002	-.0001	.0000	-.0011	.0000	-.0010	-.0001
Stddev	.0002	.000	.0000	.0000	.0002	.0000	.0000	.0001	.0003
%RSD	78.35	32.00	16.04	23.56	740.3	2.896	119.7	10.62	236.7
#1	-.0001	.0000	.0002	-.0001	.0002	-.0012	.0000	-.0010	-.0003
#2	-.0003	.0000	.0003	.0000	-.0001	-.0011	.0000	-.0011	.0001

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0005	-.0004	-.0002	-.0001	.0016	.0014	-.0013	-.0135
Stddev	.0000	.0000	.0003	.0000	.0009	.0009	.0006	.0005	.0010
%RSD	3.962	.7817	73.13	12.39	948.8	56.06	47.26	39.83	7.609

#1	.0001	.0005	-.0002	-.0002	.0006	.0023	.0009	-.0009	-.0142
#2	.0001	.0005	-.0006	-.0002	-.0008	.0010	.0018	-.0016	-.0128

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0015	.0029	.0013	.0158	-.0002	-.0003	.0006	.0155	.0005
Stddev	.0007	.0023	.0210	.0029	.0000	.0002	.0003	.0003	.0001
%RSD	47.65	78.56	1568.	18.34	15.83	69.72	46.31	2.256	15.26

#1	-.0010	.0013	.0162	.0138	-.0003	-.0002	.0004	.0152	.0004
#2	-.0020	.0045	-.0135	.0178	-.0002	-.0005	.0008	.0157	.0005

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0002	-.0132	-.0004	.0095	-.0018	.0012
Stddev	.0000	.0002	.0001	.0000	.0033	.0000	.0005
%RSD	33.24	71.16	.9445	10.02	34.38	1.082	39.53

#1	.0001	.0001	-.0131	-.0004	.0118	-.0018	.0008
#2	.0000	.0004	-.0133	-.0004	.0072	-.0018	.0015

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	178730.	36670.	2200.5	6554.6
Stddev	190.	69.	5.1	7.7
%RSD	.10657	.18864	.23053	.11702

#1	178860.	36621.	2204.1	6549.2
#2	178590.	36719.	2196.9	6560.0

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Sample Name: mp79732-b1 Acquired: 6/2/2014 22:30:02 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	2.146	.0515	.0516	.4788	.1908	.2590	.5073	.5031	.0529
Stddev	.002	.0002	.0001	.0010	.0006	.0020	.0025	.0000	.0003
%RSD	.0907	.3977	.1899	.2093	.3360	.7632	.4971	.0083	.6008
#1	2.144	.0514	.0515	.4795	.1913	.2604	.5091	.5031	.0532
#2	2.147	.0517	.0517	.4781	.1904	.2576	.5055	.5032	.0527
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.5049	.5169	2.204	2.197	.5085	2.495	.5661	2.063	22.69
Stddev	.0025	.0013	.007	.006	.0001	.008	.0006	.001	.02
%RSD	.4870	.2424	.3384	.2976	.0190	.3323	.1125	.0237	.0900
#1	.5066	.5178	2.199	2.192	.5084	2.489	.5666	2.063	22.67
#2	.5031	.5161	2.209	2.202	.5086	2.501	.5657	2.063	22.70
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	1.065	23.98	26.78	27.56	2.227	2.177	2.025	2.437	2.131
Stddev	.003	.12	.10	.13	.003	.004	.007	.004	.006
%RSD	.3006	.4883	.3572	.4823	.1532	.2084	.3536	.1636	.2643
#1	1.063	23.89	26.72	27.47	2.225	2.174	2.030	2.434	2.127
#2	1.068	24.06	26.85	27.66	2.230	2.180	2.020	2.440	2.135
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	2.146	1.975	-.0132	.0042	-.0013	-.0006	.0011		
Stddev	.005	.006	.0002	.0005	.0013	.0003	.0003		
%RSD	.2469	.3269	1.731	12.19	100.4	48.08	24.87		
#1	2.142	1.980	-.0133	.0045	-.0004	-.0008	.0009		
#2	2.149	1.971	-.0130	.0038	-.0022	-.0004	.0013		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	173270.	36332.	2097.7	6244.3					
Stddev	352.	107.	7.2	14.7					
%RSD	.20323	.29441	.34248	.23543					
#1	173020.	36407.	2102.8	6254.7					
#2	173520.	36256.	2092.6	6233.9					

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◀ Zoom In ▶
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Sample Name: ccv Acquired: 6/2/2014 22:35:53 Type: QC
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.136	1.948	1.966	1.942	2.031	F 2.222	2.170
Stddev	.010	.001	.010	.001	.018	.019	.021
%RSD	.4787	.0308	.5259	.0529	.8623	.8470	.9515
#1	2.128	1.947	1.973	1.941	2.044	2.236	2.156
#2	2.143	1.948	1.959	1.942	2.019	2.209	2.185
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value						2.000	
Range						10.00%	
Int. Std.	Y_3600	Y_3710	Y_2243	In2306			
Units	Cts/S	Cts/S	Cts/S	Cts/S			
Avg	170630.	35590.	2086.8	6050.0			
Stddev	98.	90.	13.1	41.1			
%RSD	.05761	.25193	.62778	.67944			
#1	170560.	35662.	2077.5	6021.0			
#2	170700.	35535.	2096.0	6079.1			

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◀ Zoom In ▶
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Sample Name: ccv Acquired: 6/2/2014 22:35:53 Type: QC
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.098	1.985	2.030	1.859	1.802	2.083	1.938	1.913	.2379
Stddev	.011	.006	.016	.016	.003	.005	.005	.017	.0015
%RSD	.5404	.2865	.8053	.8530	.1735	.2511	.2726	.8801	.6343
#1	2.090	1.981	2.042	1.870	1.800	2.079	1.934	1.925	.2368
#2	2.106	1.989	2.018	1.848	1.804	2.086	1.941	1.901	.2389
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.001	1.809	2.054	2.031	1.937	2.097	2.119	39.24	F 35.94
Stddev	.006	.018	.018	.022	.019	.014	.013	.25	.03
%RSD	.3121	.9657	.8946	1.093	.9866	.6799	.5882	.6242	.0969
#1	1.996	1.822	2.067	2.047	1.950	2.107	2.128	39.07	35.96
#2	2.005	1.797	2.041	2.015	1.923	2.087	2.110	39.42	35.91
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value									40.00
Range									-10.00%
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	38.68	36.74	40.85	42.19	2.036	2.083	1.981	5.409	2.017
Stddev	.07	.06	.28	.35	.014	.017	.008	.044	.015
%RSD	.1912	.1581	.6751	.8378	.6761	.8327	.4149	.8119	.7318
#1	38.63	36.78	40.66	41.94	2.046	2.095	1.975	5.440	2.027
#2	38.73	36.70	41.05	42.44	2.026	2.070	1.987	5.378	2.007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

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Sample Name: ccb Acquired: 6/2/2014 22:41:43 Type: QC
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0002	.0003	.0001	.0001	-.0008	.0003	-.0009	.0001
Stddev	.0001	.0000	.0000	.0001	.0000	.0001	.0000	.0003	.0001
%RSD	294.5	1.701	10.97	57.91	8.261	18.08	2.427	27.64	101.0
#1	.0000	.0002	.0003	.0002	.0000	-.0008	.0003	-.0007	.0000
#2	.0001	.0002	.0003	.0001	.0001	-.0007	.0003	-.0011	.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	.0003	.0002	.0009	-.0005	.0014	.0012	-.0005	-.0082
Stddev	.0001	.0002	.0000	.0004	.0000	.0004	.0005	.0033	.0000
%RSD	20.81	54.15	30.55	39.52	173.6	27.10	41.84	658.9	.3466
#1	.0004	.0002	.0002	.0011	.0001	.0016	.0015	-.0028	-.0082
#2	.0005	.0004	.0001	.0006	-.0011	.0011	.0008	.0018	-.0083
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0053	.0015	.0531	.0184	.0002	.0012	.0008	.0077	.0003
Stddev	.0005	.0158	.0107	.0009	.0005	.0003	.0002	.0004	.0007
%RSD	10.28	1065.	20.14	5.022	238.5	28.69	30.59	5.079	207.6
#1	.0049	-.0097	.0607	.0191	.0006	.0014	.0006	.0074	.0008
#2	.0057	.0127	.0456	.0178	-.0002	.0010	.0010	.0080	-.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

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Sample Name: ccb Acquired: 6/2/2014 22:41:43 Type: QC
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0005	-0.0080	.0001	.0031	-0.0016	.0020
Stddev	.0000	.0002	.0014	.0000	.0011	.0012	.0008
%RSD	7.400	43.18	16.99	25.22	36.85	74.69	43.01
#1	.0003	.0003	-0.0070	.0001	.0039	-0.0024	.0014
#2	.0004	.0006	-0.0089	.0001	.0023	-0.0008	.0026

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	179890.	36929.	2209.9	6580.4
Stddev	412.	64.	1.4	12.7
%RSD	.22890	.17283	.06200	.19236
#1	180180.	36884.	2208.9	6571.4
#2	179600.	36974.	2210.9	6589.3

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Sample Name: mp79732-s1 Acquired: 6/2/2014 22:47:48 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	2.235	.0514	.0548	.5036	.2045	.2956	.8294	.5297	.0597
Stddev	.020	.0006	.0003	.0016	.0108	.0163	.0472	.0005	.0034
%RSD	.8850	1.073	.6061	.3080	5.276	5.517	5.692	.1008	5.687

#1	2.221	.0510	.0546	.5025	.2122	.3071	.8628	.5301	.0621
#2	2.249	.0518	.0551	.5047	.1969	.2841	.7961	.5293	.0573

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.5456	.5271	2.354	2.192	.5269	2.633	.5940	2.146	46.36
Stddev	.0297	.0003	.008	.007	.0005	.003	.0038	.022	.81
%RSD	5.450	.0598	.3408	.3215	.0975	.1068	.6450	1.009	1.747

#1	.5666	.5269	2.349	2.197	.5266	2.631	.5913	2.130	45.79
#2	.5245	.5274	2.360	2.187	.5273	2.635	.5967	2.161	46.94

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	2.188	.5191	40.26	362.0	2.664	2.239	2.315	3.119	2.144
Stddev	.031	.78	.28	7.8	.009	.003	.133	.012	.002
%RSD	1.418	1.511	.6956	2.164	.3258	.1434	5.733	.3986	.0826

#1	2.166	51.35	40.06	356.5	2.658	2.237	2.409	3.110	2.143
#2	2.210	52.46	40.46	367.5	2.670	2.241	2.221	3.127	2.146

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Avg	2.419	2.131	-0.100	.0024	42.74	.0000	.0065
Stddev	.044	.125	.0012	.0008	.08	.000	.0003
%RSD	1.818	5.853	11.62	31.81	.1937	1471.	4.135

#1	2.388	2.219	-.0091	.0029	42.80	.0001	.0067
#2	2.450	2.043	-.0108	.0018	42.68	-.0002	.0063

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	153710.	36040.	1928.4	5490.6
Stddev	7580.	442.	5.1	7.2
%RSD	4.9309	1.2275	.26378	.13117

#1	148350.	36353.	1932.0	5495.7
#2	159070.	35727.	1924.8	5485.5

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Sample Name: mp79732-s2 Acquired: 6/2/2014 22:53:49 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	2.259	.0515	.0542	.4993	.1811	.2643	.7386	.5233	.0539
Stddev	.025	.0005	.0005	.0068	.0068	.0103	.0281	.0039	.0024
%RSD	1.107	.9263	.8506	.5635	3.772	3.904	3.800	.7469	4.479

#1	2.242	.0512	.0539	.4974	.1762	.2570	.7187	.5206	.0521
#2	2.277	.0518	.0545	.5013	.1859	.2716	.7584	.5261	.0556

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.4881	.5190	2.338	2.164	.5202	2.611	.5907	2.158	46.58
Stddev	.0187	.0032	.016	.016	.0030	.018	.0054	.025	.07
%RSD	3.825	.6228	.6889	.7372	.5750	.6803	.9146	1.136	.1594

#1	.4749	.5167	2.327	2.153	.5181	2.598	.5869	2.140	46.52
#2	.5014	.5213	2.350	2.175	.5223	2.623	.5945	2.175	46.63

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	2.205	52.00	40.72	363.7	2.641	2.210	2.082	3.108	2.113
Stddev	.009	.14	.41	6.6	.025	.020	.081	.023	.014
%RSD	.4044	.2740	1.011	1.815	.9466	.8906	3.876	.7330	.6506

#1	2.199	51.90	40.43	359.1	2.623	2.196	2.025	3.092	2.103
#2	2.211	52.11	41.01	368.4	2.658	2.224	2.139	3.125	2.123

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Avg	2.439	1.889	-0.109	-0.013	42.72	-0.008	.0064
Stddev	.020	.073	.0007	.0001	.34	.0001	.0003
%RSD	.8071	3.879	6.278	7.755	.7890	12.09	5.402

#1	2.425	1.837	-0.104	-0.014	42.48	-0.008	.0061
#2	2.453	1.941	-0.114	-0.012	42.96	-0.007	.0066

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	168890.	35740.	1930.2	5501.5
Stddev	5847.	263.	15.5	41.6
%RSD	3.4620	.73490	.80449	.75671

#1	173030.	35926.	1941.1	5530.9
#2	164760.	35554.	1919.2	5472.0

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Sample Name: jb67783-1 Acquired: 6/2/2014 22:59:54 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.0336	.0000	.0000	.0003	.0009	.0033	.2344	.0039	-0.0004
Stddev	.0001	.000	.0000	.0002	.0001	.0002	.0020	.0003	.0004
%RSD	.4090	210.1	39.68	63.01	10.00	5.410	.8536	7.592	112.5

#1	.0337	.0000	.0000	.0005	.0008	.0031	.2330	.0037	-.0001
#2	.0335	.0000	.0000	.0002	.0010	.0034	.2358	.0041	-.0007

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0022	.0059	.0041	.0046	.0013	-.0016	-.0014	.0344	20.25
Stddev	.0001	.0001	.0008	.0008	.0006	.0011	.0002	.0023	.12
%RSD	3.488	1.417	19.30	17.39	47.61	72.02	17.03	6.560	.6139

#1	.0022	.0058	.0035	.0040	.0009	-.0023	-.0012	.0360	20.34
#2	.0021	.0059	.0046	.0051	.0018	-.0008	-.0016	.0328	20.17

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.9493	23.24	10.66	281.9	2.674	.0031	.0006	.5031	-0.0003
Stddev	.0043	.17	.02	1.1	.0065	.0006	.0006	.0123	.0001
%RSD	.4498	.7307	.2056	.0277	2.417	19.76	91.98	2.437	45.62

#1	.9523	23.36	10.67	282.0	.2628	.0035	.0010	.4944	-.0002
#2	.9463	23.12	10.64	281.9	.2719	.0027	.0002	.5117	-.0004

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Avg	.2334	.0020	-0.170	-0.014	36.09	.0002	.0053
Stddev	.0010	.0001	.0002	.0000	.66	.0001	.0001
%RSD	.4114	3.058	.9817	2.747	1.816	88.66	2.781

#1	.2341	.0019	-0.171	-0.014	35.63	.0003	.0052
#2	.2327	.0020	-0.169	-0.014	36.55	.0001	.0054

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	163480.	36449.	1985.1	5690.4
Stddev	1387.	100.	34.2	89.5
%RSD	.84855	.27349	1.7228	1.5728

#1	164460.	36378.	2009.3	5753.7
#2	162500.	36519.	1960.9	5627.1

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Sample Name: mp79732-sd1 Acquired: 6/2/2014 23:06:00 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.0334	-.0003	.0001	-.0005	.0013	.0009	.2416	.0014	.0006
Stddev	.0010	.0001	.0005	.0010	.0006	.0001	.0004	.0004	.0015
%RSD	2.989	25.00	1038.	196.4	43.01	8.239	.1568	28.65	261.7
#1	.0341	-.0003	.0004	.0002	.0017	.0009	.2419	.0017	-.0005
#2	.0327	-.0002	-.0003	-.0012	.0009	.0008	.2413	.0011	.0016
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0034	.0190	.0064	.0081	.0044	.0043	.0030	.0164	20.67
Stddev	.0000	.0005	.0030	.0010	.0028	.0036	.0051	.0023	.01
%RSD	.4299	2.728	46.54	12.58	64.51	83.16	170.2	13.95	.0269
#1	.0034	.0186	.0085	.0088	.0024	.0018	.0066	.0180	20.66
#2	.0034	.0193	.0043	.0074	.0064	.0068	-.0006	.0148	20.67
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.9761	23.33	10.59	288.6	2.498	.0028	.0035	.5846	.0019
Stddev	.0076	.03	.12	.2	.0063	.0002	.0004	.0044	.0026
%RSD	.7765	.1096	1.116	.0623	2.509	8.052	12.37	.7541	142.4
#1	.9707	23.35	10.68	288.7	.2454	.0030	.0032	.5814	.0000
#2	.9814	23.32	10.51	288.5	.2543	.0027	.0038	.5877	.0037
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.2362	.0030	-.0790	-.0044	32.56	-.0081	.0112		
Stddev	.0000	.0009	.0007	.0004	.06	.0008	.0008		
%RSD	.0176	28.45	.8264	9.471	.1953	9.492	1.780		
#1	.2363	.0024	-.0795	-.0047	32.51	-.0087	.0120		
#2	.2362	.0036	-.0786	-.0041	32.60	-.0076	.0117		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	172200.	36199.	2113.0	6218.4					
Stddev	86.	13.	2.3	3.8					
%RSD	.04999	.03558	.10816	.06045					
#1	172260.	36208.	2114.6	6221.1					
#2	172140.	36190.	2111.4	6215.8					

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Sample Name: sampleconf Acquired: 6/2/2014 23:12:02 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	-.0001	.0000	.0000	.0003	.0000	-.0004	.0000	-.0003	-.0002
Stddev	.0001	.000	.000	.0001	.000	.0001	.000	.0001	.0004
%RSD	92.11	13.37	209.7	24.99	349.7	35.99	54.12	50.85	143.7
#1	-.0002	.0000	-.0001	.0003	.0001	-.0005	.0000	-.0002	.0000
#2	-.0000	.0000	.0000	.0002	-.0001	-.0003	.0000	-.0004	-.0005
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0000	.0014	.0010	.0036	-.0006	-.0008	-.0017	.0004	-.0088
Stddev	.000	.0001	.0003	.0001	.0003	.0007	.0007	.0028	.0009
%RSD	356.8	4.965	33.80	2.420	49.70	94.46	38.91	636.6	10.56
#1	.0000	.0014	.0008	.0036	-.0004	-.0013	-.0022	.0024	-.0094
#2	-.0001	.0013	.0012	.0035	-.0008	-.0003	-.0012	-.0015	-.0081
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	-.0008	.0107	.0201	.0373	.0002	-.0006	.0004	.0106	-.0002
Stddev	.0005	.0061	.0008	.0013	.0000	.0000	.0001	.0016	.0006
%RSD	54.98	56.69	4.214	3.449	12.82	7.796	32.93	15.30	263.1
#1	-.0012	.0150	.0195	.0382	.0002	-.0006	.0005	.0094	-.0007
#2	-.0005	.0064	.0207	.0364	.0002	-.0006	.0003	.0117	.0002
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0001	.0004	-.0187	-.0007	.0064	.0002	.0008		
Stddev	.0000	.0001	.0013	.0001	.0027	.0013	.0001		
%RSD	26.55	31.72	6.769	19.00	42.35	740.5	13.06		
#1	.0001	.0005	-.0196	-.0006	.0083	.0011	.0008		
#2	.0001	.0003	-.0178	-.0008	.0045	-.0007	.0007		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	179250.	37402.	2151.7	6527.5					
Stddev	970.	994.	16.8	41.5					
%RSD	.54140	2.6588	.78048	.63589					
#1	178570.	38105.	2163.6	6556.8					
#2	179940.	36699.	2139.9	6498.1					

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Sample Name: mp79805-mb1.1 Acquired: 6/2/2014 23:18:07 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.0003	.0000	.0002	-.0001	.0001	-.0005	.0000	-.0012	.0000
Stddev	.0000	.000	.0000	.0000	.0001	.0001	.0000	.0000	.000
%RSD	13.53	.3495	13.08	8.394	63.26	10.23	79.25	2.570	244.5
#1	.0004	.0000	.0002	-.0001	.0001	-.0005	.0000	-.0012	-.0001
#2	.0003	.0000	.0002	-.0001	.0000	-.0006	.0000	-.0011	.0000
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0001	.0015	-.0007	.0004	-.0001	.0010	.0000	.0033	-.0058
Stddev	.0000	.0001	.0005	.0003	.0004	.0026	.001	.0012	.0015
%RSD	23.67	6.077	74.50	71.27	438.5	255.3	3424.	36.22	25.27
#1	.0001	.0015	-.0011	.0007	-.0004	.0029	-.0005	.0024	-.0048
#2	.0001	.0014	-.0003	.0002	.0002	-.0008	.0005	.0041	-.0069
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0003	.0019	.0117	.0259	-.0009	-.0001	.0005	.0088	.0002
Stddev	.0005	.0059	.0078	.0006	.0003	.0000	.0006	.0001	.0001
%RSD	167.1	314.8	66.38	2.180	34.41	16.70	111.9	.7234	42.05
#1	.0006	-.0023	.0172	.0255	-.0006	-.0001	.0001	.0088	.0002
#2	-.0001	.0060	.0062	.0263	-.0011	-.0001	.0009	.0087	.0003
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0001	.0004	-.0149	-.0006	.0052	-.0022	.0008		
Stddev	.0000	.0001	.0003	.0001	.0013	.0006	.0009		
%RSD	23.90	14.84	1.759	9.435	25.96	27.46	114.2		
#1	.0001	.0004	-.0151	-.0006	.0042	-.0018	.0015		
#2	.0001	.0003	-.0147	-.0006	.0061	-.0026	.0002		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	178390.	36496.	2146.7	6483.0					
Stddev	158.	83.	3.8	4.9					
%RSD	.08866	.22866	.17776	.07511					
#1	178280.	36555.	2149.4	6486.4					
#2	178500.	36437.	2144.0	6479.5					

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Sample Name: mp79805-lc1 Acquired: 6/2/2014 23:24:12 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.5416	.5060	.5433	.4780	.4758	.5183	.5028	.5034	.2033
Stddev	.0021	.0005	.0050	.0035	.0013	.0021	.0015	.0021	.0004
%RSD	.3891	.1014	.9258	.7240	.2774	.4018	.2991	.4224	.2148
#1	.5401	.5057	.5397	.4755	.4748	.5198	.5017	.5019	.2030
#2	.5431	.5064	.5468	.4804	.4767	.5168	.5038	.5049	.2036
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.4984	.5157	.5513	.5530	.5122	.6071	.5678	5.131	5.117
Stddev	.0031	.0029	.0055	.0061	.0018	.0050	.0068	.016	.010
%RSD	.6308	.5594	.9978	1.105	.3452	.8166	1.197	.3053	.1959
#1	.4962	.5136	.5474	.5487	.5110	.6036	.5630	5.120	5.124
#2	.5007	.5177	.5552	.5573	.5135	.6106	.5726	5.142	5.110
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	5.646	5.120	10.89	11.24	.0086	5.354	.0038	.0035	-.0009
Stddev	.003	.014	.03	.06	.0002	.0056	.0000	.0003	.0002
%RSD	.0490	.2782	.2506	.5017	2.769	1.044	.2020	7.261	25.87
#1	5.648	5.130	10.87	11.20	.0088	.5314	.0038	-.0037	-.0011
#2	5.644	5.110	10.91	11.28	.0085	.5393	.0038	-.0033	-.0008
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	-.0002	.5042	-.0136	-.0008	.0003	-.0027	.0004		
Stddev	.0000	.0002	.0000	.0001	.0003	.0003	.0001		
%RSD	22.92	.0461	.2295	11.04	79.33	12.73	18.44		
#1	-.0002	.5040	-.0135	-.0007	.0001	-.0025	.0004		
#2	-.0002	.5043	-.0136	-.0008	.0005	-.0029	.0005		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	174270.	36195.	2089.0	6265.0					
Stddev	29.	38.	17.3	34.0					
%RSD	.01685	.10617	.82952	.54261					
#1	174290.	36222.	2101.2	6289.0					
#2	174250.	36168.	2076.7	6240.9					

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Sample Name: mp79805-1c2 Acquired: 6/2/2014 23:30:05 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.5187	.4830	.5158	.4516	.4541	.4954	.4782	.4760	.1935
Stddev	.0046	.0032	.0029	.0018	.0013	.0021	.0008	.0021	.0004
%RSD	.8957	.6673	.5690	.4069	.2782	.4303	.1652	.4484	.2089
#1	.5155	.4807	.5138	.4503	.4532	.4939	.4776	.4745	.1932
#2	.5220	.4853	.5179	.4529	.4550	.4969	.4787	.4775	.1938
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.4739	.4884	.5224	.5231	.4832	.5730	.5419	.4910	.4889
Stddev	.0001	.0022	.0028	.0013	.0016	.0043	.0039	.033	.037
%RSD	.0247	.4473	.5386	.2509	.3306	.7492	.7180	.6697	.7616
#1	.4738	.4868	.5204	.5222	.4821	.5699	.5391	.4886	.4863
#2	.4740	.4899	.5244	.5241	.4844	.5760	.5446	.4933	.4915
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.5389	.4882	.10.42	.10.73	.0071	.5063	.0037	.0043	.0002
Stddev	.042	.032	.06	.07	.0002	.0015	.0002	.0010	.0005
%RSD	.7814	.6627	.5294	.6412	2.857	.3012	5.549	24.58	272.7
#1	5.359	4.859	10.38	10.68	.0069	.5052	.0035	.0050	.0006
#2	5.419	4.905	10.46	10.78	.0072	.5074	.0038	.0035	.0002
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0001	.4812	.0140	.0007	.0000	.0023	.0001		
Stddev	.0000	.0014	.0007	.0000	.0000	.0003	.0003		
%RSD	17.96	.2988	4.653	2.956	46080.	4.212	17.93		
#1	.0001	.4802	.0135	.0007	.0016	.0034	.0014		
#2	.0001	.4822	.0145	.0007	.0017	.0036	.0018		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	176070.	36650.	2129.5	6399.1					
Stddev	364.	240.	9.2	18.8					
%RSD	.20647	.65524	.43372	.29382					
#1	176330.	36820.	2136.0	6412.4					
#2	175820.	36481.	2122.9	6385.8					

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Sample Name: mp79805-s1 Acquired: 6/2/2014 23:35:58 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	
Avg	.2200	.0505	.0548	.4968	.1908	.2759	.7168	.5190	
Stddev	.017	.0005	.0002	.0041	.0016	.0010	.0043	.0042	
%RSD	.7667	1.049	.3435	.8344	.8385	.3710	.6066	.8046	
#1	2.212	.0508	.0547	.4939	.1897	.2752	.7138	.5160	
#2	2.188	.0501	.0549	.4997	.1919	.2766	.7199	.5219	
Elem	Ag3280	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	
Avg	.0537	.5024	.5157	.2352	.2172	.5186	.2709	.5947	
Stddev	.0001	.0025	.0049	.013	.007	.0026	.013	.0029	
%RSD	.1378	.4999	.9597	.5460	.3045	.4981	.4640	.4934	
#1	.0537	.5007	.5122	2.343	2.167	.5168	2.700	.5927	
#2	.0538	.5042	.5192	2.361	2.176	.5204	2.718	.5968	
Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	
Avg	.2225	.201.9	.1052	.39.86	.52.05	.122.5	.3232	.0001	
Stddev	.024	3.5	.009	.48	.46	1.9	.0017	.0000	
%RSD	1.098	1.716	.8191	1.194	.8762	1.555	.5334	70.79	
#1	2.242	204.3	1.058	40.20	52.37	123.8	.3219	.0001	
#2	2.208	199.4	1.046	39.52	51.73	121.1	.3244	.0000	
Elem	Pd3404	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	
Avg	.0052	.8664	.0024	.3088	.0017	.0004	.0001	.1	
Stddev	.0008	.0053	.0001	.0027	.0003	.0004	.0001	.1	
%RSD	16.33	.6159	3.624	.8798	16.37	2.533	.5434	.3721	
#1	.0058	.8626	.0023	.3107	.0019	.0016	.0134	283.1	
#2	.0046	.8702	.0025	.3068	.0015	.0141	.0135	284.6	
Elem	Bi2230	Li6707							
Avg	.0033	.1458							
Stddev	.0006	.0003							
%RSD	18.80	.2358							
#1	.0028	.1460							
#2	.0037	.1456							

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Sample Name: mp79805-s1 Acquired: 6/2/2014 23:35:58 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	160140.	35693.	1901.0	5518.9
Stddev	802.	308.	7.6	24.9
%RSD	.50103	.86289	.40223	.45115
#1	160710.	35475.	1906.5	5536.5
#2	159580.	35911.	1895.6	5501.3

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Sample Name: ccv Acquired: 6/2/2014 23:42:03 Type: QC
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.096	1.960	2.029	1.868	F 1.798	2.081	1.903	1.906	.2374
Stddev	.026	.025	.000	.001	.008	.003	.006	.004	.0004
%RSD	1.254	1.281	.0086	.0625	.4579	.1502	.3407	.2067	.1799
#1	2.077	1.943	2.029	1.869	1.792	2.079	1.898	1.909	.2371
#2	2.115	1.978	2.029	1.867	1.804	2.083	1.907	1.903	.2377
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					2.000				
Range					-10.00%				
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.977	F 1.800	2.051	2.026	1.919	2.103	2.140	38.65	F 35.36
Stddev	.005	.003	.001	.006	.003	.007	.004	.67	.36
%RSD	.2351	.1718	.0246	.2928	.1776	.3249	.1974	1.726	1.021
#1	1.973	1.802	2.051	2.030	1.922	2.107	2.137	38.18	35.10
#2	1.980	1.798	2.051	2.022	1.917	2.098	2.143	39.12	35.61
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value		2.000							40.00
Range		-10.00%							-10.00%
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	38.15	F 35.53	40.34	41.52	2.077	2.083	2.002	5.391	2.021
Stddev	.40	.33	.62	.67	.001	.001	.002	.001	.003
%RSD	1.047	.9336	1.527	1.611	.0639	.0526	.0801	.0085	.1409
#1	37.86	35.29	39.90	41.05	2.076	2.082	2.001	5.391	2.023
#2	38.43	35.76	40.77	41.99	2.078	2.084	2.003	5.391	2.019
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value		40.00							
Range		-10.00%							

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Sample Name: ccv Acquired: 6/2/2014 23:42:03 Type: QC
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.089	1.913	1.962	1.925	2.030	F 2.232	2.181
Stddev	.031	.004	.005	.003	.009	.001	.036
%RSD	1.489	.2366	.2824	.1625	.4236	.0615	1.641
#1	2.067	1.910	1.959	1.923	2.037	2.233	2.156
#2	2.111	1.916	1.966	1.927	2.024	2.231	2.206

Check ?
Value
Range

Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
					2.000	
					10.00%	

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	170510	35900	2074.1	6021.6
Stddev	506	481	3.3	14.9
%RSD	.29683	1.3410	.15693	.24786

#1	170870	36240	2071.8	6011.0
#2	170150	35560	2076.4	6032.1

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Sample Name: ccb Acquired: 6/2/2014 23:47:54 Type: QC
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0000	.0003	.0001	.0001	-.0004	.0001	-.0008
Stddev	.0000	.0000	.0001	.0001	.0002	.0001	.0000	.0000
%RSD	227.7	106.8	30.67	82.44	120.8	16.92	1.386	.3314
#1	.0000	.0000	.0004	.0001	.0000	-.0003	.0001	-.0008
#2	.0000	.0000	.0002	.0000	.0003	-.0004	.0001	-.0008

Check ?
High Limit
Low Limit

Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass

Elem	Ag3280	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0002	.0002	.0001	.0004	.0000	.0000	.0010
Stddev	.0000	.0000	.0001	.0001	.0003	.000	.001	.0004
%RSD	.8443	27.07	58.93	93.46	58.27	1044.	2006.	38.12

#1	.0001	.0002	.0001	.0000	.0006	.0002	.0003	.0007
#2	.0001	.0001	.0003	.0001	.0003	-.0002	-.0003	.0012

Check ?
High Limit
Low Limit

Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0036	-.0040	.0006	.0017	.0274	.0278	.0000	.0007
Stddev	.0019	.0011	.0012	.0099	.0074	.0008	.000	.0000
%RSD	53.25	28.46	211.8	576.8	27.13	2.841	110.3	6.292

#1	-.0023	-.0032	-.0003	.0087	.0221	.0272	.0000	.0007
#2	-.0050	-.0048	.0014	-.0053	.0326	.0283	.0000	.0008

Check ?
High Limit
Low Limit

Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass

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Sample Name: ccb Acquired: 6/2/2014 23:47:54 Type: QC
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pd3404	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010	.0038	.0002	.0001	.0004	-.0080	-.0001	W .0059
Stddev	.0006	.0009	.0001	.0000	.0002	.0008	.0000	.0004
%RSD	56.19	24.28	23.06	21.47	39.90	10.09	8.857	6.148
#1	.0014	.0031	.0002	.0001	.0005	-.0074	-.0001	.0062
#2	.0006	.0044	.0003	.0001	.0003	-.0086	-.0001	.0056

Check ?
High Limit
Low Limit

Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn
								.0050
								-.0050

Elem	Bi2230	Li6707
Units	ppm	ppm
Avg	-.0011	.0013
Stddev	.0006	.0005
%RSD	49.99	37.29

#1	-.0015	.0010
#2	-.0007	.0017

Check ?
High Limit
Low Limit

Chk Pass	Chk Pass

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	180240	37244	2172.7	6494.7
Stddev	214	15	27.6	71.7
%RSD	.11893	.04148	1.2701	1.1034

#1	180390	37233	2192.2	6545.4
#2	180090	37255	2153.2	6444.1

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Sample Name: mp79805-s2 Acquired: 6/2/2014 23:54:00 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.279	.0520	.0588	.5069	.1943	.2829	.7355	.5272
Stddev	.001	.0001	.0006	.0015	.0003	.0001	.0015	.0010
%RSD	.0367	.1700	1.078	.3024	.1604	.0498	.2047	.1972
#1	2.279	.0521	.0564	.5058	.1941	.2830	.7344	.5264
#2	2.280	.0519	.0572	.5080	.1945	.2828	.7366	.5279

Elem	Ag3280	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0546	.5112	.5232	2.405	2.208	.5258	2.765	.6084
Stddev	.0003	.0004	.0011	.012	.016	.0009	.019	.0021
%RSD	.4683	.0862	.2156	.4864	.7237	.1760	.6996	.3496

#1	.0548	.5109	.5224	2.396	2.196	.5252	2.751	.6069
#2	.0544	.5115	.5240	2.413	2.219	.5265	2.779	.6099

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.328	212.7	1.085	41.27	54.78	128.1	.3404	.0001
Stddev	.006	1.9	.001	.01	.08	1.0	.0019	.0000
%RSD	.2647	.8901	.1251	.0286	.1531	.7419	.5724	37.60

#1	2.332	211.4	1.084	41.28	54.84	128.8	.3390	.0001
#2	2.323	214.0	1.086	41.27	54.72	127.5	.3417	.0000

Elem	Pd3404	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0059	.8926	-.0022	.3290	.0018	-.0113	F -.0124	F 294.4
Stddev	.0004	.0047	.0011	.0002	.0002	.0004	.0000	1.8
%RSD	6.203	.5260	50.26	.0657	9.784	3.383	.2187	.6209

#1	.0061	.8893	-.0014	.3289	.0016	-.0111	-.0123	293.1
#2	.0056	.8959	-.0030	.3292	.0019	-.0116	-.0124	295.7

Elem	Bi2230	Li6707
Units	ppm	ppm
Avg	-.0025	.1562
Stddev	.0008	.0012
%RSD	32.22	.7796

#1	-.0031	.1571
#2	-.0019	.1554

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Sample Name: mp79805-s2 Acquired: 6/2/2014 23:54:00 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	160470.	35465.	1907.3	5532.1
Stddev	70.	27.	10.3	19.9
%RSD	.04359	.07632	.54040	.36005
#1	160520.	35446.	1914.6	5546.2
#2	160420.	35484.	1900.0	5518.0

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Sample Name: jb68057-3 Acquired: 6/3/2014 0:00:03 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Avg	.0051	.0000	.0006	.0001	.0002	.0012	.2250	.0029
Stddev	.0001	.000	.0001	.0003	.0001	.0001	.0001	.0001
%RSD	1.025	18.80	17.27	377.0	31.12	7.959	.0555	2.085
#1	.0050	.0000	.0007	-.0001	.0002	.0012	.2249	.0029
#2	.0051	.0000	.0005	.0003	.0003	.0013	.2251	.0029
Elem	Ag3280	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068
Avg	-.0004	.0003	.0022	.0123	.0024	.0047	.0016	-.0004
Stddev	.0001	.0002	.0000	.0006	.0007	.0004	.0012	.0001
%RSD	37.98	71.90	1.106	4.933	31.29	8.337	73.46	28.33
#1	-.0003	.0004	.0022	.0127	.0029	.0050	.0025	-.0003
#2	-.0005	.0001	.0022	.0118	.0019	.0044	.0008	-.0005
Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Avg	.1451	190.7	.0034	16.81	25.36	96.82	.3261	-.0014
Stddev	.0004	.8	.0002	.18	.03	.46	.0016	.0001
%RSD	.3020	.4065	4.580	1.096	.1068	.4800	.4943	4.201
#1	.1448	190.2	.0033	16.94	25.38	96.50	.3250	-.0013
#2	.1454	191.3	.0035	16.68	25.34	97.15	.3273	-.0014
Elem	Pd3404	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820
Avg	.0037	.8553	-.0014	.3217	.0004	-.0162	F-.0119	F 286.5
Stddev	.0008	.0014	.0004	.0011	.0002	.0006	.0000	.3
%RSD	21.31	.1616	24.70	.3484	56.08	3.796	.0497	.1004
#1	.0031	.8543	-.0017	.3224	.0005	-.0167	-.0119	286.2
#2	.0042	.8563	-.0012	.3209	.0002	-.0158	-.0119	286.7
Elem	Bi2230	Li6707						
Avg	.0004	.1512						
Stddev	.0005	.0008						
%RSD	102.2	.5338						
#1	.0001	.1518						
#2	.0008	.1506						

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Sample Name: jb68057-3 Acquired: 6/3/2014 0:00:03 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	163550.	35580.	1976.6	5724.8
Stddev	77.	200.	6.8	8.0
%RSD	.04736	.56230	.34616	.13908
#1	163600.	35439.	1981.5	5730.4
#2	163490.	35722.	1971.8	5719.1

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Sample Name: mp79805-sd1 Acquired: 6/3/2014 0:06:14 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.0055	-.0002	.0014	-.0002	-.0021	.0017	.2285	-.0011	-.0012
Stddev	.0002	.0000	.0007	.0002	.0007	.0003	.0006	.0001	.0005
%RSD	4.306	.4922	50.37	100.2	34.67	16.69	.2637	7.744	45.58
#1	.0053	-.0002	.0019	-.0004	-.0026	.0019	.2261	-.0011	-.0015
#2	.0056	-.0002	.0009	-.0001	-.0016	.0015	.2270	-.0010	-.0008
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0002	-.0177	.0082	-.0017	.0005	-.0260	-.0008	.1847	191.5
Stddev	.0002	.0002	.0011	.0015	.0015	.0005	.0021	.0190	.3
%RSD	115.9	.9253	13.27	88.19	325.2	2.116	261.1	10.29	.1599
#1	.0000	-.0176	.0074	-.0028	.0015	-.0264	.0007	.1981	191.3
#2	.0004	-.0178	.0090	-.0006	-.0006	-.0256	-.0023	.1713	191.7
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0004	16.30	24.19	93.77	.3021	-.0038	.0089	.8605	-.0067
Stddev	.0025	.09	.15	.24	.0027	.0001	.0020	.0021	.0001
%RSD	608.9	.5755	.6336	.2570	.8913	2.994	29.21	.2491	2.113
#1	.0022	16.36	24.08	93.94	.3040	-.0039	.0083	.8590	-.0066
#2	-.0014	16.23	24.30	93.60	.3002	-.0037	.0055	.8620	-.0067
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.3151	.0007	.3684	-.0126	267.0	-.0085	.1518		
Stddev	.0005	.0007	.0007	.0002	1.2	.0000	.0006		
%RSD	.1594	106.8	.2020	1.388	.4417	.3957	.3712		
#1	.3154	.0012	.3689	-.0125	267.8	-.0085	.1522		
#2	.3147	.0002	.3678	-.0127	266.1	-.0085	.1514		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	172020.	35995.	2114.3	6263.1					
Stddev	322.	25.	3.7	13.2					
%RSD	.18708	.06977	.17500	.21084					
#1	171790.	35977.	2111.7	6253.7					
#2	172250.	36013.	2116.9	6272.4					

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Sample Name: jb68057-3f Acquired: 6/3/2014 0:12:13 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Avg	.0047	.0000	.0004	.0004	.0000	.0015	.2296	.0028
Stddev	.0001	.000	.0000	.0001	.0000	.0001	.0006	.0001
%RSD	2.486	46.88	5.367	24.59	112.7	8.201	.2741	3.110
#1	.0048	.0000	.0005	.0004	.0001	.0014	.2301	.0028
#2	.0046	-.0001	.0004	.0003	.0000	.0016	.2292	.0027
Elem	Ag3280	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068
Avg	-.0001	.0002	.0027	.0127	.0018	.0047	.0018	-.0011
Stddev	.0000	.0002	.0000	.0004	.0003	.0006	.0009	.0015
%RSD	5.229	68.01	1.357	2.997	14.39	12.19	51.58	134.6
#1	-.0001	.0003	.0027	.0124	.0020	.0043	.0025	-.0001
#2	-.0002	.0001	.0027	.0129	.0016	.0052	.0012	-.0022
Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Avg	.1362	193.0	.0056	17.00	25.78	99.57	.3337	-.0015
Stddev	.0029	2.0	.0013	.04	.06	.75	.0012	.0003
%RSD	2.128	1.057	22.66	.2103	.2496	.7567	.3473	17.28
#1	.1341	194.5	.0047	17.03	25.74	99.04	.3328	-.0017
#2	.1382	191.6	.0065	16.98	25.83	100.1	.3345	-.0013
Elem	Pd3404	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820
Avg	.0034	.8770	-.0020	.3280	.0003	-.0178	F -.0120	F 290.0
Stddev	.0012	.0009	.0005	.0003	.0002	.0000	.0001	.3
%RSD	35.95	.1024	23.59	.0980	73.47	.1813	.4755	.0957
#1	.0025	.8777	-.0023	.3278	.0001	-.0178	-.0121	289.8
#2	.0042	.8764	-.0016	.3282	.0005	-.0178	-.0120	290.2
Elem	Bi2230	Li6707						
Avg	.0002	.1536						
Stddev	.0008	.0004						
%RSD	367.5	.2302						
#1	-.0003	.1539						
#2	.0008	.1534						

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Sample Name: jb68057-3f Acquired: 6/3/2014 0:12:13 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	161030.	35267.	1943.2	5647.5
Stddev	47.	28.	9.0	16.4
%RSD	.02904	.07837	.46074	.29061
#1	161060.	35286.	1949.6	5659.1
#2	161000.	35247.	1936.9	5635.9

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Sample Name: jb68093-1 Acquired: 6/3/2014 0:18:23 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.0706	.0001	.0003	.0050	.0301	.0572	.1177	.0122	.0005
Stddev	.0005	.0000	.0000	.0002	.0003	.0004	.0000	.0005	.0003
%RSD	.7708	13.78	13.34	3.838	.9332	.6363	.0253	4.062	65.17
#1	.0703	.0001	.0003	.0052	.0299	.0575	.1177	.0119	.0003
#2	.0710	.0001	.0003	.0049	.0303	.0569	.1178	.0126	.0007
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0261	.0396	.0063	.0014	.0240	.0011	-.0004	5.598	84.19
Stddev	.0001	.0003	.0001	.0004	.0002	.0021	.0003	.042	.46
%RSD	.3752	.6888	1.666	30.01	.6279	188.0	67.55	.7495	.5432
#1	.0261	.0398	.0062	.0011	.0242	-.0004	-.0002	5.569	84.51
#2	.0260	.0394	.0064	.0017	.0239	.0026	-.0007	5.628	83.86
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	6.659	1.201	49.93	287.0	.0375	.0087	.0017	12.11	.0024
Stddev	.005	.000	.28	2.7	.0005	.0002	.0001	.02	.0004
%RSD	.0802	.0261	.5661	.9565	1.410	2.744	6.283	.1642	19.14
#1	6.663	1.201	49.73	285.1	.0379	.0089	.0016	12.09	.0020
#2	6.656	1.201	50.13	288.9	.0372	.0086	.0018	12.12	.0027
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	1.634	.1979	-.0157	-.0022	18.33	.0005	.0124		
Stddev	.007	.0001	.0009	.0001	.01	.0002	.0003		
%RSD	.4320	.0664	5.652	2.747	.0625	31.46	2.279		
#1	1.629	.1978	-.0163	-.0022	18.32	.0004	.0122		
#2	1.639	.1980	-.0151	-.0021	18.33	.0006	.0126		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	162480.	35658.	1934.3	5487.8					
Stddev	181.	49.	11.0	16.0					
%RSD	.11133	.13693	.57044	.29167					
#1	162350.	35692.	1942.1	5499.2					
#2	162610.	35623.	1926.5	5476.5					

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Sample Name: mp79805-mb2 Acquired: 6/3/2014 0:24:27 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	-.0001	-.0001	.0001	.0001	.0001	-.0004	.0000	-.0010	.0000
Stddev	.0000	.0000	.0001	.0000	.0002	.0004	.000	.0000	.000
%RSD	33.58	35.92	89.23	9.518	346.2	93.57	79.76	.2764	267.2
#1	-.0001	.0000	.0002	.0001	-.0001	-.0001	-.0001	-.0010	-.0001
#2	-.0001	-.0001	.0000	.0002	.0002	-.0007	.0000	-.0010	.0000
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0001	.0008	-.0009	.0002	-.0011	.0019	.0005	.0005	-.0033
Stddev	.0000	.0000	.0001	.0003	.0005	.0016	.0001	.0004	.0001
%RSD	18.70	2.564	7.892	177.5	50.83	82.57	16.22	68.74	4.151
#1	.0001	.0009	-.0010	.0003	-.0014	.0030	.0005	.0008	-.0034
#2	.0001	.0008	-.0009	.0000	-.0007	.0008	.0006	.0003	-.0032
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0006	.0014	.0249	.0518	-.0009	-.0006	.0003	.0125	.0004
Stddev	.0006	.0003	.0137	.0058	.0001	.0000	.0004	.0006	.0003
%RSD	97.23	24.09	54.96	11.16	10.12	8.141	150.5	4.785	77.52
#1	.0002	.0016	.0152	.0556	-.0008	-.0006	.0005	.0121	.0007
#2	.0011	.0012	.0346	.0475	-.0009	-.0005	.0000	.0129	.0002
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0001	.0003	-.0158	-.0005	.0097	-.0019	.0007		
Stddev	.0000	.0001	.0003	.0001	.0008	.0006	.0001		
%RSD	35.83	48.19	1.710	16.94	8.664	31.51	9.634		
#1	.0001	.0004	-.0156	-.0005	.0103	-.0014	.0007		
#2	.0000	.0002	-.0160	-.0006	.0091	-.0023	.0006		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	178120.	36690.	2182.7	6514.4					
Stddev	216.	33.	1.0	5.6					
%RSD	.12119	.08933	.04689	.08598					
#1	177970.	36667.	2182.0	6518.4					
#2	178280.	36713.	2183.4	6510.5					

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Sample Name: mp79781-mb1 2 Acquired: 6/3/2014 0:30:32 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	-0.002	.0000	.0003	-0.001	.0000	-0.003	.0001	-0.012	-0.003
Stddev	.0001	.000	.0000	.0000	.000	.0001	.0000	.0000	.0002
%RSD	43.91	73.29	14.62	33.56	530.4	32.28	56.90	.1721	56.01

#1	-.0003	.0000	.0002	-.0002	.0001	-.0003	.0001	-.0012	-.0002
#2	-.0001	.0000	.0003	-.0001	-.0002	-.0002	.0000	-.0012	-.0004

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0002	.0011	-.0008	-.0004	-.0008	.0013	.0009	.0038	-.0051
Stddev	.0000	.0000	.0002	.0007	.0000	.0011	.0002	.0007	.0004
%RSD	17.43	.1976	26.00	163.8	1.005	80.49	18.65	17.53	7.296

#1	.0002	.0011	-.0006	-.0009	-.0008	.0021	.0008	.0033	-.0049
#2	.0001	.0011	-.0009	.0001	-.0008	.0006	.0010	.0043	-.0054

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0011	-.0003	-.0022	.0367	-.0010	-.0005	.0006	.0246	.0002
Stddev	.0005	.0077	.0156	.0008	.0003	.0001	.0003	.0003	.0008
%RSD	47.51	3071.	721.5	2.081	31.21	19.58	52.72	1.064	453.7

#1	.0014	.0052	.0089	.0373	-.0012	-.0006	.0003	.0247	-.0004
#2	.0007	-.0057	-.0132	.0362	-.0008	-.0005	.0008	.0244	.0007

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0001	.0004	-.0165	-.0004	.0078	-.0023	.0009		
Stddev	.0000	.0002	.0006	.0000	.0006	.0003	.0001		
%RSD	.9139	62.61	3.914	8.041	7.694	14.25	10.16		

#1	.0001	.0002	-.0169	-.0005	.0083	-.0025	.0010		
#2	.0001	.0005	-.0160	-.0004	.0074	-.0021	.0008		

Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	178130.	36588.	2225.0	6671.3					
Stddev	324.	171.	23.2	65.3					
%RSD	.18172	.46621	1.0405	.97867					

#1	177900.	36708.	2208.6	6625.2					
#2	178360.	36467.	2241.3	6717.5					

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Sample Name: jb64500-35 Acquired: 6/3/2014 0:42:29 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	-0.001	-0.001	.0004	-0.001	.0000	-0.002	.0001	-0.011	.0001
Stddev	.0000	.0000	.0001	.0001	.000	.0001	.0000	.0001	.0001
%RSD	50.69	1.345	33.69	63.93	363.3	54.46	41.05	9.118	105.4

#1	-.0001	-.0001	.0003	-.0001	-.0002	-.0003	.0001	-.0012	.0001
#2	.0000	-.0001	.0005	-.0001	.0001	-.0001	.0000	-.0010	.0000

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0000	.0012	-.0010	-0.0002	-0.0008	.0022	.0010	-.0032	.0008
Stddev	.000	.0001	.0003	.0009	.0006	.0011	.0002	.0079	.0011
%RSD	8.475	5.150	27.24	391.8	72.35	49.18	15.07	245.2	146.7

#1	.0000	.0012	-.0008	-.0008	-.0012	.0014	.0009	.0024	.0000
#2	.0000	.0012	-.0012	.0004	-.0004	.0029	.0011	-.0088	.0015

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0020	-.0013	.0312	.0232	-0.0009	-0.0003	.0007	.0270	.0001
Stddev	.0017	.0068	.0034	.0060	.0003	.0002	.0002	.0000	.0003
%RSD	84.32	542.3	11.04	25.68	33.19	60.29	21.38	.1157	229.6

#1	.0008	-.0061	.0288	.0275	-.0007	-.0002	.0006	.0270	.0003
#2	.0033	.0036	.0337	.0190	-.0011	-.0004	.0008	.0270	-.0001

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0001	.0003	-.0170	-.0005	.0048	-.0027	.0021		
Stddev	.0000	.0002	.0004	.0001	.0022	.0001	.0002		
%RSD	16.68	67.69	2.273	14.13	45.65	1.984	8.299		

#1	.0001	.0004	-.0167	-.0004	.0063	-.0027	.0022		
#2	.0001	.0001	-.0172	-.0005	.0032	-.0027	.0019		

Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	179840.	36642.	2191.1	6568.2					
Stddev	134.	102.	4.0	17.2					
%RSD	.07471	.27785	.18166	.26230					

#1	179740.	36570.	2188.3	6556.0					
#2	179930.	36714.	2193.9	6580.4					

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Sample Name: mp79781-lc1 2 Acquired: 6/3/2014 0:36:36 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.5167	.4875	.4942	.4497	.4590	.4910	.4815	.4685	.1862
Stddev	.0001	.0003	.0002	.0004	.0022	.0010	.0015	.0009	.0002
%RSD	.0113	.0596	.0358	.0949	.4775	.2060	.3161	.1908	.0902

#1	.5166	.4873	.4943	.4500	.4574	.4917	.4804	.4701	.1863
#2	.5167	.4877	.4941	.4494	.4605	.4902	.4826	.4689	.1861

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.4769	.4809	.4973	.4984	.4693	.5269	.5142	4.900	4.948
Stddev	.0000	.0013	.0004	.0012	.0004	.0019	.0007	.003	.007
%RSD	.0067	.2768	.0903	.2377	.0747	.3655	.1342	.0579	.1370

#1	.4769	.4818	.4976	.4992	.4690	.5255	.5147	4.898	4.953
#2	.4769	.4800	.4970	.4975	.4695	.5282	.5137	4.902	4.944

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	5.439	4.939	10.20	10.55	.0143	.5052	.0034	.0306	.0009
Stddev	.001	.001	.02	.02	.0001	.0003	.0006	.0001	.0005
%RSD	.0242	.0243	.2118	.1689	.9050	.0651	18.36	.2601	60.48

#1	5.440	4.940	10.19	10.54	.0142	.5050	.0030	.0306	.0005
#2	5.438	4.938	10.22	10.56	.0143	.5054	.0039	.0305	.0013

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	-.0001	.4831	-.0098	.0005	.0038	-.0054	.0022		
Stddev	.0000	.0007	.0002	.0000	.0002	.0006	.0006		
%RSD	16.09	.1394	1.715	1.758	6.205	11.50	27.82		

#1	-.0001	.4826	-.0097	.0005	.0036	-.0049	.0026		
#2	-.0001	.4835	-.0100	.0005	.0039	-.0058	.0017		

Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	175380.	35933.	2143.6	6366.0					
Stddev	275.	14.	1.3	.9					
%RSD	.15704	.03913	.05964	.01479					

#1	175570.	35923.	2144.5	6365.4					
#2	175180.	35943.	2142.7	6366.7					

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Sample Name: ccv Acquired: 6/3/2014 0:48:36 Type: QC
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.113	1.985	2.046	1.884	1.815	2.078	1.922	1.927	.2383
Stddev	.001	.004	.004	.004	.003	.007	.004	.004	.0002
%RSD	.0663	.1774	.2155	.2041	.1829	.3153	.2149	.2018	.0706

#1	2.112	1.982	2.043	1.881	1.813	2.083	1.919	1.924	.2382
#2	2.114	1.987	2.049	1.886	1.818	2.074	1.925	1.930	.2384

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.994	1.821	2.065	2.039	1.942	2.109	2.149	39.10	F 35.91
Stddev	.001	.001	.004	.000	.001	.002	.001	.03	.07
%RSD	.0666	.0759	.1970	.0133	.0462	.0720	.0396	.0728	.1883

#1	1.993	1.820	2.063	2.039	1.943	2.110	2.150	39.08	35.86
#2	1.995	1.822	2.068	2.039	1.942	2.108	2.148	39.12	35.95

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value									40.00
Range									-10.00%

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	38.68	36.29	40.80	42.05					

Sample Name: ccv Acquired: 6/3/2014 0:48:36 Type: QC
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.112	1.931	1.977	1.937	2.045	F 2.243	2.196
Stddev	.003	.000	.005	.000	.014	.002	.001
%RSD	.1399	.0102	.2717	.0080	.6622	.0819	.0360
#1	2.110	1.930	1.973	1.937	2.055	2.242	2.197
#2	2.114	1.931	1.981	1.937	2.036	2.244	2.196

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Fail Chk Pass
Value High Limit
Range 2.000
10.00%

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	170950.	35657.	2077.8	6025.1
Stddev	257.	38.	1.2	.8
%RSD	.15008	.10560	.05883	.01343

#1	170770.	35684.	2076.9	6025.7
#2	171130.	35631.	2078.7	6024.5

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Sample Name: ccb Acquired: 6/3/2014 0:54:27 Type: QC
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0002	.0003	-.0001	-.0001	-.0004	.0002	-.0011	-.0001
Stddev	.0001	.0000	.0001	.0000	.0001	.0001	.0000	.0005	.0000
%RSD	501.4	13.24	38.70	32.66	239.8	18.10	6.336	45.80	39.62
#1	.0001	.0003	.0004	-.0001	.0000	-.0004	.0002	-.0007	-.0001
#2	-.0001	.0002	.0002	.0000	-.0002	-.0005	.0001	-.0015	.0000

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value High Limit
Range Low Limit

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0003	-.0002	.0012	-.0009	.0023	.0009	.0017	-.0007
Stddev	.0002	.0001	.0006	.0005	.0000	.0004	.0004	.0048	.0003
%RSD	48.07	22.46	275.7	44.29	5.271	19.18	38.64	279.9	46.94

#1	.0005	.0004	.0002	.0016	-.0010	.0026	.0007	.0051	-.0009
#2	.0002	.0003	-.0006	.0008	-.0009	.0020	.0012	-.0017	-.0004

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value High Limit
Range Low Limit

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0039	.0139	.0276	.0298	-.0004	.0005	.0012	.0030	.0006
Stddev	.0018	.0005	.0123	.0050	.0000	.0003	.0002	.0017	.0001
%RSD	47.09	3.514	44.69	16.92	3.057	54.48	13.50	57.45	11.64

#1	.0052	.0136	.0363	.0334	-.0004	.0007	.0011	.0042	.0005
#2	.0026	.0143	.0189	.0263	-.0005	.0003	.0013	.0018	.0006

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value High Limit
Range Low Limit

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Sample Name: ccb Acquired: 6/3/2014 0:54:27 Type: QC
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0006	-.0088	.0001	.0031	-.0018	.0018
Stddev	.0001	.0001	.0023	.0001	.0005	.0001	.0000
%RSD	35.60	10.73	26.25	84.57	14.67	6.423	2.736

#1	.0004	.0007	-.0071	.0001	.0028	-.0017	.0018
#2	.0003	.0006	-.0104	.0000	.0034	-.0018	.0019

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value High Limit
Range Low Limit

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	178450.	36606.	2188.1	6534.6
Stddev	566.	16.	19.1	49.7
%RSD	.31728	.04438	.87401	.76072

#1	178850.	36618.	2175.6	6499.5
#2	178050.	36595.	2202.6	6569.8

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Sample Name: cri Acquired: 6/3/2014 1:00:34 Type: QC
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2117	.0021	.0036	.0481	.0095	.0100	.0150	.0090
Stddev	.0003	.0000	.0000	.0002	.0001	.0002	.0000	.0003
%RSD	.1375	.2482	.1936	.4146	.8317	1.555	.1011	2.858

#1	.2115	.0021	.0036	.0482	.0096	.0101	.0150	.0088
#2	.2119	.0021	.0036	.0480	.0095	.0099	.0151	.0091

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value High Limit
Range Low Limit

Elem	Ag3280	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0050	.0520	.0188	.0090	.0116	W .0022	.0110	.0071
Stddev	.0001	.0000	.0001	.0002	.0009	.0004	.0007	.0004
%RSD	2.891	.0854	.3738	1.820	7.971	17.42	6.537	4.937

#1	.0049	.0520	.0188	.0089	.0110	.0025	.0105	.0073
#2	.0051	.0520	.0189	.0092	.0123	.0019	.0115	.0068

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Warn Chk Pass Chk Pass
Value High Limit
Range -20.00%

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1970	4.560	.1027	4.726	5.187	5.329	.1054	.0216
Stddev	.0032	.006	.0002	.023	.022	.031	.0001	.0002
%RSD	1.631	.1327	.2405	.4799	.4221	.5900	.1201	.6964

#1	.1992	4.556	.1025	4.742	5.203	5.351	.1055	.0215
#2	.1947	4.565	.1029	4.710	5.172	5.307	.1053	.0217

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value High Limit
Range Low Limit

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Sample Name: cri Acquired: 6/3/2014 1:00:34 Type: QC								
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000								
User: admin Custom ID1: Custom ID2: Custom ID3:								
Comment:								
Elem	Pd3404	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0553	.2340	.0102	.0110	.0104	.0491	.0107	.0548
Stddev	.0001	.0017	.0004	.0001	.0002	.0007	.0000	.0014
%RSD	.2187	.7247	3.546	.5172	1.525	1.403	.1110	2.559
#1	.0552	2352	.0100	.0110	.0105	.0496	.0107	.0538
#2	.0554	2328	.0105	.0110	.0102	.0486	.0107	.0558
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								
Elem	Bi2230	Li6707						
Units	ppm	ppm						
Avg	.0228	W .0256						
Stddev	.0006	.0004						
%RSD	2.459	1.476						
#1	.0224	.0258						
#2	.0232	.0253						
Check ?	Chk Pass	Chk Warn						
Value		.0200						
Range		20.00%						
Int. Std.	Y_3600	Y_3710	Y_2243	In2306				
Units	Cts/S	Cts/S	Cts/S	Cts/S				
Avg	178990.	37184.	2164.0	6469.8				
Stddev	15.	59.	2.5	8.6				
%RSD	.00847	.15909	.11607	.13300				
#1	179000.	37142.	2165.8	6475.9				
#2	178980.	37226.	2162.2	6463.7				

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Sample Name: crid Acquired: 6/3/2014 1:06:34 Type: QC								
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000								
User: admin Custom ID1: Custom ID2: Custom ID3:								
Comment:								
Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0042	.0010	.0011	.0030	.0018	.0021	.0030	W .0029
Stddev	.0000	.0000	.0002	.0000	.0002	.0000	.0000	.0000
%RSD	.1232	.4902	19.95	.6687	10.08	1.364	.2150	.2443
#1	.0042	.0010	.0010	.0030	.0019	.0020	.0030	.0029
#2	.0042	.0010	.0013	.0030	.0017	.0021	.0030	.0029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn
Value								.0040
Range								-20.00%
Elem	Ag3280	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	W .0007	.0019	W .0124	.0028	W .0025	W .0019	W .0060	F .0041
Stddev	.0002	.0001	.0000	.0001	.0000	.0002	.0010	.0001
%RSD	33.69	3.489	.2556	2.062	.0323	9.214	16.38	3.620
#1	.0009	.0018	.0124	.0027	.0025	.0020	.0053	.0040
#2	.0006	.0019	.0124	.0028	.0025	.0017	.0067	.0042
Check ?	Chk Warn	Chk Pass	Chk Warn	Chk Pass	Chk Warn	Chk Warn	Chk Warn	Chk Fail
Value	.0010		.0100		.0020	.0025	.0050	.0030
Range	-20.00%		20.00%		20.00%	-20.00%	20.00%	30.00%
Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0991	.9280	.0004	.0986	2.096	1.108	.0096	-.0004
Stddev	.0001	.0044	.0003	.0056	.012	.007	.0000	.0001
%RSD	.0818	.4716	89.46	5.691	.5742	.5983	.1150	19.68
#1	.0990	.9311	.0001	.0946	2.088	1.103	.0096	-.0005
#2	.0991	.9249	.0006	.1025	2.105	1.112	.0096	-.0004
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value								
Range								

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Sample Name: crid Acquired: 6/3/2014 1:06:34 Type: QC								
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000								
User: admin Custom ID1: Custom ID2: Custom ID3:								
Comment:								
Elem	Pd3404	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005	.0015	-.0002	.0000	.0002	F -.0147	F -.0006	.0032
Stddev	.0001	.0001	.0000	.0000	.0001	.0002	.0000	.0012
%RSD	23.53	6.909	59.45	68.56	49.11	1.131	6.980	36.28
#1	.0006	.0016	-.0001	.0000	.0001	-.0146	-.0006	.0040
#2	.0004	.0015	-.0002	.0000	.0003	-.0149	-.0006	.0024
Check ?	None	None	None	None	None	Chk Fail	Chk Fail	Chk Pass
Value						.0040	.0040	
Range						-30.00%	-30.00%	
Elem	Bi2230	Li6707						
Units	ppm	ppm						
Avg	F -.0016	F .0016						
Stddev	.0005	.0003						
%RSD	28.99	17.39						
#1	-.0012	.0018						
#2	-.0019	.0014						
Check ?	Chk Fail	Chk Fail						
Value	.0040	.0040						
Range	-30.00%	-30.00%						
Int. Std.	Y_3600	Y_3710	Y_2243	In2306				
Units	Cts/S	Cts/S	Cts/S	Cts/S				
Avg	178480.	36852.	2189.3	6574.7				
Stddev	4.	8.	18.2	24.9				
%RSD	.00205	.02148	.83305	.37888				
#1	178490.	36858.	2202.2	6592.3				
#2	178480.	36846.	2176.4	6557.1				

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Sample Name: cria Acquired: 6/3/2014 1:12:39 Type: QC								
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000								
User: admin Custom ID1: Custom ID2: Custom ID3:								
Comment:								
Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	.0000	.0001	.0001	-.0001	.0001	.0000	-.0006
Stddev	.0000	.000	.0000	.0000	.0000	.0000	.000	.000
%RSD	11.76	20.94	25.71	1.076	47.65	15.17	89.81	22.32
#1	-.0001	.0000	.0001	.0001	-.0001	.0002	.0000	-.0005
#2	-.0001	.0000	.0002	.0001	-.0001	.0001	.0000	-.0007
Check ?	None	None	None	None	None	None	None	None
Value								
Range								
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0007	.0197	.0001	.0190	.0256	.0224	.4971
Stddev	.0000	.0001	.0009	.0003	.0009	.0001	.0014	.0010
%RSD	25.72	15.53	4.483	429.4	4.729	.2697	6.225	.1937
#1	.0001	.0008	.0204	-.0001	.0196	.0256	.0233	.4978
#2	.0001	.0007	.0191	.0002	.0183	.0257	.0214	.4965
Check ?	None	None	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5192	.0038	-.0009	.0264	-.0008	-.0004	.0007	-.0009
Stddev	.0076	.0083	.0076	.0013	.0004	.0001	.0002	.0008
%RSD	1.464	216.5	871.1	4.784	49.21	24.10	28.02	85.41
#1	.5246	-.0020	.0045	.0273	-.0005	-.0005	.0009	-.0004
#2	.5138	.0097	-.0062	.0255	-.0011	-.0004	.0006	-.0015
Check ?	Chk Pass	None	None	None	None	None	None	None
Value								
Range								

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Sample Name: cria Acquired: 6/3/2014 1:12:39 Type: QC
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0003	-0.0158	-0.0005	.0024	-0.0015	.0012
Stddev	.0001	.0001	.0007	.0000	.0002	.0005	.0003
%RSD	429.1	25.88	4.170	7.866	8.515	36.64	20.50
#1	.0000	.0002	-.0153	-.0005	.0026	-.0019	.0014
#2	.0000	.0003	-.0162	-.0005	.0023	-.0011	.0010

Check ? Value Range
None None None None None None None

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	181130.	36501.	2162.3	6471.1
Stddev	1084.	385.	35.5	123.6
%RSD	.59817	1.0538	1.6401	1.9094
#1	181900.	36229.	2137.2	6383.7
#2	180360.	36773.	2187.3	6558.4

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Sample Name: ccv Acquired: 6/3/2014 1:18:46 Type: QC
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.089	1.884	1.992	1.918	2.047	F 2.281	F 2.244
Stddev	.001	.002	.007	.003	.002	.005	.000
%RSD	.0311	.1148	.3291	.1367	.0811	.2342	.0136
#1	2.089	1.882	1.988	1.916	2.045	2.277	2.244
#2	2.088	1.885	1.997	1.920	2.048	2.285	2.245

Check ? Value Range
Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Fail 2.000 10.00%
Chk Fail 2.000 10.00%

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	169110.	35969.	2041.4	5976.8
Stddev	422.	7.	4.5	11.6
%RSD	.24955	.01983	.21812	.19438
#1	169410.	35974.	2044.5	5985.0
#2	168810.	35964.	2038.2	5968.6

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Sample Name: ccv Acquired: 6/3/2014 1:18:46 Type: QC
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.159	1.981	2.044	1.889	1.809	2.133	1.868	1.908	2.404
Stddev	.000	.000	.004	.000	.000	.004	.000	.004	.0003
%RSD	.0081	.0171	.1869	.0190	.0091	.1711	.0099	.1848	.1137
#1	2.159	1.981	2.041	1.889	1.809	2.130	1.868	1.906	.2406
#2	2.159	1.980	2.046	1.889	1.808	2.135	1.868	1.911	.2402

Check ? Value Range
Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.982	F 1.796	2.072	2.016	1.911	2.143	2.189	38.62	F 35.59
Stddev	.001	.002	.006	.001	.001	.005	.003	.02	.02
%RSD	.0328	.1362	.3039	.0660	.0628	.2167	.1387	.0527	.0554
#1	1.983	1.794	2.068	2.015	1.911	2.140	2.187	38.61	35.57
#2	1.982	1.797	2.077	2.017	1.912	2.147	2.191	38.64	35.60

Check ? Value Range
Chk Pass Chk Fail 2.000 -10.00%
Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Fail 40.00 -10.00%

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	38.36	F 35.15	40.50	41.71	2.140	2.112	2.060	5.431	2.044
Stddev	.03	.03	.05	.04	.002	.005	.004	.006	.004
%RSD	.0710	.0826	.1284	.0922	.0865	.2404	.2148	.1092	.2182
#1	38.34	35.17	40.46	41.68	2.138	2.108	2.057	5.427	2.041
#2	38.38	35.13	40.54	41.73	2.141	2.115	2.063	5.435	2.047

Check ? Value Range
Chk Pass Chk Fail 40.00 -10.00%
Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

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Sample Name: ccb Acquired: 6/3/2014 1:24:36 Type: QC
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0002	W .0006	.0002	.0001	.0009	.0002	-.0008
Stddev	.0001	.0000	.0001	.0001	.0004	.0002	.0000	.0002
%RSD	70.68	7.575	12.37	39.70	298.6	24.19	3.094	25.13
#1	.0001	.0002	.0005	.0002	.0004	.0010	.0003	-.0010
#2	.0002	.0002	.0006	.0003	-.0002	.0007	.0002	-.0007

Check ? High Limit Low Limit
Chk Pass Chk Pass Chk Warn .0005 -0.005
Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

Elem	Ag3280	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0003	.0003	-.0001	-.0001	-.0004	.0009	.0005
Stddev	.0001	.0000	.0001	.0005	.0005	.0004	.0001	.0003
%RSD	38.05	7.691	22.67	649.1	575.3	109.0	12.79	59.40
#1	.0001	.0003	.0003	.0003	.0003	-.0007	.0008	.0007
#2	.0002	.0003	.0004	-.0004	-.0004	-.0001	.0009	.0003

Check ? High Limit Low Limit
Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0036	.0036	.0033	-.0034	.0321	-.0001	.0006
Stddev	.007	.0011	.0001	.0075	.0050	.0014	.0002	.0001
%RSD	14420.	30.22	1.870	230.2	149.2	4.412	167.7	18.90
#1	-.0049	.0028	.0035	.0086	.0002	.0311	.0000	.0007
#2	.0048	.0043	.0036	-.0020	-.0069	.0331	-.0003	.0005

Check ? High Limit Low Limit
Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

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Sample Name: ccb									Acquired: 6/3/2014 1:24:36									Type: QC																																
Method: Accutest1(v88)									Mode: CONC									Corr. Factor: 1.000000																																
User: admin									Custom ID1:									Custom ID2:									Custom ID3:																							
Comment:																																																		
Elem			Pd3404						Si2124						Sn1899						Sr4077						Ti3349						W_2079						Zr3391						S_1820					
Units			ppm						ppm						ppm						ppm						ppm						ppm						ppm						ppm					
Avg			.0009						.0027						.0003						.0003						.0004						.0064						.0001						.0015					
Stddev			.0002						.0005						.0005						.0000						.0000						.0010						.0000						.0015					
%RSD			27.79						19.76						138.7						4.664						10.71						16.41						22.73						105.5					
#1			.0011						.0024						.0007						.0003						.0003						.0056						.0001						.0025					
#2			.0007						.0031						.0000						.0003						.0004						.0071						.0002						.0004					
Check ?			Chk Pass						Chk Pass						Chk Pass						Chk Pass						Chk Pass						Chk Pass						Chk Pass						Chk Pass					
High Limit																																																		
Low Limit																																																		
Elem			Bi2230						Li6707																																									
Units			ppm						ppm																																									
Avg			.0016						.0016																																									
Stddev			.0005						.0001																																									
%RSD			30.12						7.827																																									
#1			.0020						.0015																																									
#2			.0013						.0017																																									
Check ?			Chk Pass						Chk Pass																																									
High Limit																																																		
Low Limit																																																		
Int. Std.			Y_3600						Y_3710						Y_2243						In2306																													
Units			Cts/S						Cts/S						Cts/S						Cts/S																													
Avg			176830.						37048.						2149.5						6490.7																													
Stddev			3073.						452.						21.8						48.5																													
%RSD			1.7379						1.2203						1.0119						.74768																													
#1			174660.						36728.						2164.8						6525.0																													
#2			179000.						37367.						2134.1						6456.4																													

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Sample Name: jb67898-4										Acquired: 6/3/2014 1:30:42		Type: Unk	
Method: Accutest1(v88)		Mode: CONC		Corr. Factor: 1.000000									
User: admin		Custom ID1:		Custom ID2:		Custom ID3:							
Comment:													
Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280				
Avg	.0000	.0000	.0004	.0001	.0003	.0010	.0001	.0012	.0001				
Stddev	.000	.000	.0000	.0002	.0000	.0000	.0000	.0003	.0000				
%RSD	271.2	36.63	4.664	252.5	2.246	1.906	33.72	22.57	34.66				
#1	.0000	.0000	.0004	.0002	.0003	.0010	.0000	.0010	.0000				
#2	.0001	.0000	.0004	.0001	.0003	.0011	.0001	.0014	.0001				
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179				
Avg	.0001	.0006	.0009	.0006	.0010	.0016	.0002	.0021	.0248				
Stddev	.0000	.0001	.0008	.0002	.0016	.0001	.0001	.0003	.0004				
%RSD	13.84	20.81	95.70	26.95	161.7	4.427	24.33	15.25	1.704				
#1	.0001	.0005	.0014	.0005	.0021	.0015	.0003	.0019	.0245				
#2	.0001	.0007	.0003	.0008	.0001	.0016	.0002	.0023	.0251				
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899				
Avg	.0038	.0060	.0028	.1134	.0002	.0000	.0004	.0247	.0010				
Stddev	.0015	.0138	.0108	.0016	.0001	.0001	.0000	.0009	.0000				
%RSD	41.14	230.1	383.9	1.437	55.18	1073.	1.288	3.718	.1399				
#1	.0027	.0038	.0048	.1122	.0001	.0001	.0004	.0253	.0010				
#2	.0048	.0158	.0104	.1145	.0002	.0001	.0004	.0240	.0010				
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707						
Avg	.0001	.0002	.0104	.0002	.0185	.0012	.0023						
Stddev	.0000	.0003	.0001	.0001	.0005	.0001	.0006						
%RSD	12.64	118.9	1.056	29.51	2.515	10.77	25.98						
#1	.0001	.0000	.0105	.0001	.0182	.0011	.0027						
#2	.0001	.0004	.0103	.0002	.0189	.0013	.0019						
Int. Std.	Y_3600	Y_3710	Y_2243	In2306									
Avg	174370.	36025.	2088.8	6357.5									
Stddev	244.	153.	2.6	17.4									
%RSD	.13966	.42479	.12665	.27397									
#1	174550.	35916.	2086.9	6345.2									
#2	174200.	36133.	2090.6	6369.8									

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Sample Name: j67976-6									
Acquired: 6/3/2014 1:36:46									
Type: Unk									
Method: Accutest1(v88)									
Mode: CONC									
Corr. Factor: 1.000000									
User: admin									
Custom ID1:									
Custom ID2:									
Custom ID3:									
Comment:									
Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.0000	.0000	.0002	.0001	.0005	.0012	.0001	.0012	.0001
Stddev	.0000	.000	.0001	.0001	.0001	.0000	.0000	.0001	.0001
%RSD	61.66	25.32	47.78	68.23	26.49	1.055	11.01	5.903	89.67
#1	.0000	.0000	.0002	.0000	.0006	.0012	.0001	.0013	.0001
#2	.0000	.0000	.0003	.0001	.0004	.0012	.0001	.0012	.0000
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0001	.0011	.0011	.0002	.0013	.0024	.0006	.0009	.0527
Stddev	.0001	.0000	.0001	.0003	.0007	.0002	.0003	.0008	.0010
%RSD	39.56	2.542	5.285	117.2	53.49	8.917	46.15	90.26	1.873
#1	.0002	.0011	.0010	.0004	.0008	.0026	.0004	.0015	.0520
#2	.0001	.0011	.0011	.0000	.0017	.0023	.0008	.0003	.0534
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0025	.0116	.0168	.2111	.0001	.0003	.0000	.0097	.0001
Stddev	.0007	.0020	.0022	.0008	.0002	.0001	.0005	.0003	.0000
%RSD	27.31	16.94	13.04	.3625	417.1	41.35	1130.	2.820	6.087
#1	.0021	.0102	.0153	.2106	.0001	.0004	.0004	.0099	.0001
#2	.0030	.0129	.0184	.2117	.0002	.0002	.0003	.0095	.0001
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0001	.0002	.0131	.0003	.0031	.0017	.0015		
Stddev	.0000	.0002	.0003	.0000	.0024	.0004	.0004		
%RSD	19.14	122.2	2.051	6.905	76.95	22.12	25.13		
#1	.0001	.0000	.0129	.0003	.0048	.0020	.0017		
#2	.0001	.0003	.0133	.0003	.0014	.0014	.0012		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	177260.	36795.	2118.3	6445.7					
Stddev	390.	12.	2.7	7.3					
%RSD	.21990	.03190	.12836	.11332					
#1	177540.	36787.	2120.2	6450.9					
#2	176990.	36804.	2116.4	6440.6					

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Sample Name: jb68098-2		Acquired: 6/3/2014 1:42:50		Type: Unk				
Method: Accutest1(v88)		Mode: CONC		Corr. Factor: 1.000000				
User: admin		Custom ID1:	Custom ID2:	Custom ID3:				
Comment:								
Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Avg	.0002	.0000	.0003	.0001	.0002	.0016	.0000	.0017
Stddev	.0000	.000	.0000	.0001	.0002	.0001	.0000	.0001
%RSD	16.40	22.57	6.695	84.47	74.85	3.950	10.28	7.409
#1	.0002	.0000	.0003	.0000	.0001	.0015	.0000	.0016
#2	.0002	.0000	.0002	.0001	.0004	.0016	.0000	.0018
Elem	Ag3280	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068
Avg	.0001	.0003	.0006	.0011	F-.0022	.0007	.0026	.0006
Stddev	.0001	.0001	.0002	.0003	.0005	.0011	.0004	.0001
%RSD	164.1	27.42	32.59	28.53	24.54	156.9	13.50	11.31
#1	.0000	.0002	.0005	.0014	.0018	.0014	.0029	.0006
#2	.0001	.0004	.0008	.0009	.0026	.0001	.0024	.0007
Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Avg	.0011	.0002	.0011	.0015	.0138	.0250	.0001	.0001
Stddev	.0020	.0001	.0000	.0056	.0070	.0025	.0002	.0002
%RSD	186.5	41.49	3.448	367.3	50.45	10.08	150.5	174.1
#1	.0003	.0002	.0011	.0054	.0089	.0233	.0000	.0000
#2	.0025	.0001	.0011	.0024	.0188	.0268	.0002	.0002
Elem	Pd3404	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820
Avg	.0009	.0144	.0007	.0000	.0003	.0132	.0004	.0015
Stddev	.0000	.0001	.0000	.000	.0000	.0002	.0000	.0001
%RSD	1.242	.8369	2.154	27.90	14.51	1.722	1.350	4.244
#1	.0009	.0145	.0007	.0000	.0003	.0131	.0004	.0014
#2	.0009	.0143	.0007	.0000	.0003	.0134	.0003	.0015
Elem	Bi2230	Li6707						
Avg	.0028	.0020						
Stddev	.0003	.0004						
%RSD	11.88	20.36						
#1	.0030	.0017						
#2	.0025	.0023						

Sample Name: jb68098-2 Acquired: 6/3/2014 1:42:50 Type: Unk
 Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
 User: admin Custom ID1: Custom ID2: Custom ID3:
 Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	177220.	37593.	2116.7	6469.4
Stddev	1864.	394.	2.0	20.0
%RSD	1.0516	1.0488	.09661	.30919

#1	175900.	37314.	2115.3	6455.2
#2	178530.	37872.	2118.2	6483.5

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Sample Name: jb67912-11a Acquired: 6/3/2014 1:55:01 Type: Unk
 Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
 User: admin Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.0000	.0000	.0002	.0001	.0002	.0016	.0002	.0010	.0001
Stddev	.0001	.000	.0003	.0000	.0000	.0002	.0000	.0001	.0002
%RSD	203.2	38.22	133.0	43.77	26.64	10.63	8.028	7.070	353.9

#1	.0001	.0000	.0000	.0001	.0001	.0017	.0002	.0011	.0001
#2	.0000	.0000	.0004	.0001	.0002	.0015	.0002	.0010	.0002

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0002	.0015	.0015	.0005	.0013	.0021	.0005	.0061	.0221
Stddev	.0002	.0002	.0012	.0004	.0006	.0000	.0002	.0009	.0008
%RSD	118.9	10.01	77.87	73.28	46.46	1.606	37.27	15.00	3.518

#1	.0003	.0014	.0007	.0008	.0018	.0021	.0006	.0054	.0227
#2	.0000	.0016	.0024	.0003	.0009	.0021	.0004	.0067	.0216

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0066	.0084	.0058	.1155	.0001	.0003	.0001	.0326	.0018
Stddev	.0010	.0025	.0070	.0013	.0005	.0001	.0001	.0002	.0004
%RSD	15.09	30.17	125.0	1.138	475.2	18.75	124.8	.5297	23.41

#1	.0073	.0066	.0105	.1164	.0005	.0003	.0000	.0328	.0021
#2	.0059	.0102	.0006	.1145	.0002	.0002	.0002	.0325	.0015

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Avg	.0000	.0003	.0153	.0005	.0064	.0015	.0020
Stddev	.0000	.0001	.0004	.0001	.0030	.0000	.0005
%RSD	70.16	16.64	2.709	13.99	47.66	2.592	24.03

#1	.0001	.0004	.0156	.0005	.0042	.0015	.0023
#2	.0000	.0003	.0151	.0004	.0085	.0015	.0016

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	175950.	36531.	2094.5	6415.2
Stddev	693.	66.	10.1	14.3
%RSD	.39382	.18155	.48281	.22288

#1	175460.	36578.	2101.6	6425.3
#2	176440.	36484.	2087.3	6405.1

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Sample Name: jb67897-7 Acquired: 6/3/2014 1:48:55 Type: Unk
 Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
 User: admin Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.0002	.0000	.0004	.0001	.0003	.0049	.0001	.0012	.0000
Stddev	.0000	.000	.0001	.0001	.0002	.0002	.0000	.0001	.000
%RSD	3.021	99.36	17.18	56.08	81.33	4.943	30.61	5.192	5364.

#1	.0002	.0000	.0004	.0002	.0004	.0047	.0001	.0012	.0002
#2	.0002	.0000	.0003	.0001	.0001	.0051	.0001	.0011	.0002

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0003	.0031	.0011	.0018	.0007	.0036	.0001	.0023	.0211
Stddev	.0001	.0001	.0007	.0005	.0005	.0004	.0009	.0019	.0004
%RSD	19.73	2.903	58.76	27.82	78.83	10.19	736.6	84.56	1.763

#1	.0002	.0031	.0007	.0021	.0003	.0033	.0008	.0009	.0208
#2	.0003	.0030	.0016	.0014	.0011	.0038	.0005	.0037	.0214

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0028	.0056	.0053	.0377	.0001	.0003	.0003	.0194	.0005
Stddev	.0002	.0035	.0020	.0008	.0006	.0001	.0000	.0001	.0005
%RSD	8.643	62.71	37.42	2.112	675.9	44.68	5.549	.5040	97.89

#1	.0030	.0031	.0067	.0371	.0003	.0004	.0003	.0193	.0008
#2	.0027	.0081	.0039	.0382	.0005	.0002	.0003	.0195	.0002

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Avg	.0001	.0000	.0139	.0004	.0043	.0013	.0019
Stddev	.0000	.0002	.0003	.0000	.0007	.0003	.0001
%RSD	.3404	3324.	2.279	3.162	15.88	22.23	5.338

#1	.0001	.0001	.0142	.0004	.0038	.0011	.0018
#2	.0001	.0001	.0137	.0004	.0048	.0015	.0020

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	175890.	36624.	2093.1	6403.2
Stddev	18.	52.	.1	.1
%RSD	.01018	.14316	.00503	.00132

#1	175900.	36661.	2093.0	6403.2
#2	175880.	36587.	2093.1	6403.3

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Sample Name: jb67981-14 Acquired: 6/3/2014 2:01:07 Type: Unk
 Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
 User: admin Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.0000	.0000	.0003	.0001	.0000	.0014	.0002	.0013	.0002
Stddev	.0001	.000	.0001	.0002	.000	.0000	.0000	.0001	.0000
%RSD	1486.	97.75	18.60	333.2	907.0	1.179	2.055	6.802	21.64

#1	.0000	.0000	.0003	.0001	.0001	.0014	.0002	.0014	.0001
#2	.0001	.0000	.0003	.0002	.0001	.0014	.0002	.0012	.0002

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0001	.0042	.0012	.0005	.0017	.0021	.0004	.0051	.0789
Stddev	.0001	.0003	.0003	.0000	.0001	.0010	.0001	.0027	.0005
%RSD	99.23	7.187	22.69	7.168	6.169	49.25	30.56	53.72	.6669

#1	.0000	.0044	.0010	.0005	.0016	.0014	.0004	.0070	.0793
#2	.0002	.0040	.0014	.0004	.0018	.0028	.0005	.0031	.0786

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0046	.0148	.0018	.0478	.0006	.0002	.0002	.0271	.0008
Stddev	.0009	.0042	.0262	.0011	.0005	.0001	.0000	.0004	.0003
%RSD	19.00	28.54	1497.	2.405	84.65	27.66	1.278	1.424	33.22

#1	.0052	.0178	.0203	.0486	.0009	.0001	.0002	.0268	.0010
#2	.0039	.0118	.0168	.0470	.0002	.0002	.0002	.0274	.0006

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Avg	.0002	.0003	.0159	.0005	.0209	.0022	.0017
Stddev	.0000	.0000	.0003	.0001	.0000	.0008	.0002
%RSD	2.038	8.198	2.079	12.33	.1274	38.21	11.45

#1	.0002	.0003	.0161	.0005	.0209	.0028	.0015
#2	.0002	.0003	.0157	.0005	.0209	.0016	.0018

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	176430.	36771.	2124.8	6456.5
Stddev	187.	89.	3.9	4.4
%RSD	.10589	.24294	.18553	.06820

#1	176290.	36708.	2127.6	6453.4
#2	176560.	36835.	2122.0	6459.6

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Sample Name: j67999-2a Acquired: 6/3/2014 2:07:11 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.0000	.0000	.0003	-.0001	.0002	.0017	.0001	-.0012	.0001
Stddev	.0001	.000	.0001	.0000	.0002	.0000	.0000	.0002	.0001
%RSD	464.7	33.75	43.87	35.14	108.6	2.563	19.64	16.20	156.9
#1	.0001	.0000	.0004	-.0001	.0000	.0017	.0001	-.0011	.0000
#2	.0000	.0000	.0002	-.0002	.0004	.0017	.0001	-.0014	.0001
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	-.0001	.0012	-.0021	-.0009	-.0015	.0017	.0002	.0057	.0173
Stddev	.0001	.0002	.0001	.0003	.0003	.0010	.0001	.0005	.0004
%RSD	51.98	13.50	3.272	39.57	22.66	58.46	44.99	8.237	2.321
#1	-.0001	.0013	-.0022	-.0006	-.0012	.0024	.0003	.0054	.0176
#2	-.0002	.0011	-.0021	-.0011	-.0017	.0010	.0001	.0060	.0170
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0052	.0088	-.0262	.0284	-.0003	-.0004	.0002	.0230	.0007
Stddev	.0007	.0074	.0021	.0001	.0005	.0001	.0001	.0000	.0003
%RSD	13.62	83.66	8.076	.4264	159.0	31.16	47.54	.1967	49.13
#1	.0047	.0140	-.0277	.0283	.0000	-.0003	.0001	.0230	.0004
#2	.0057	.0036	-.0247	.0284	-.0007	-.0005	.0002	.0230	.0009
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0000	.0007	-.0160	-.0005	.0023	-.0014	.0020		
Stddev	.0000	.0002	.0003	.0000	.0013	.0002	.0005		
%RSD	17.24	24.74	2.131	1.281	55.30	17.26	22.77		
#1	.0000	.0008	-.0163	-.0005	.0014	-.0015	.0023		
#2	.0000	.0006	-.0158	-.0005	.0032	-.0012	.0017		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	175340.	36608.	2111.2	6429.0					
Stddev	438.	100.	.3	3.4					
%RSD	.24998	.27263	.01593	.05362					
#1	175030.	36538.	2111.0	6426.6					
#2	175650.	36679.	2111.4	6431.5					

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Sample Name: j68102-1a Acquired: 6/3/2014 2:13:15 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.0001	.0000	.0003	-.0001	.0005	.0019	.0001	-.0013	.0001
Stddev	.0000	.000	.0001	.0001	.0003	.0000	.0000	.0002	.0002
%RSD	20.90	134.3	46.72	59.79	57.99	2.489	1.370	12.42	227.1
#1	.0001	.0000	.0002	-.0002	.0003	.0019	.0001	-.0015	.0000
#2	.0001	.0000	.0004	-.0001	.0006	.0018	.0001	-.0012	.0002
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	-.0003	.0013	-.0015	-.0013	-.0016	.0030	.0010	.0057	.0145
Stddev	.0000	.0001	.0002	.0001	.0014	.0009	.0007	.0012	.0004
%RSD	6.344	3.871	13.24	5.628	86.74	29.07	63.17	20.92	2.641
#1	-.0003	.0014	-.0016	-.0014	-.0026	.0036	.0015	.0066	.0142
#2	-.0003	.0013	-.0014	-.0013	-.0006	.0024	.0006	.0049	.0147
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0147	.0078	-.0070	.0324	-.0002	-.0004	.0003	.0353	.0009
Stddev	.0001	.0082	.0061	.0023	.0002	.0001	.0005	.0008	.0003
%RSD	.7102	105.4	87.27	6.985	108.1	29.49	156.2	2.399	32.23
#1	.0147	.0020	-.0027	.0308	-.0001	-.0004	.0007	.0347	.0007
#2	.0148	.0136	-.0113	.0340	-.0004	-.0003	.0000	.0359	.0011
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0001	.0014	-.0157	-.0005	.0093	-.0011	.0017		
Stddev	.0000	.0001	.0002	.0000	.0014	.0007	.0002		
%RSD	58.20	4.456	1.495	9.184	15.55	59.04	10.22		
#1	.0001	.0014	-.0155	-.0005	.0083	-.0007	.0016		
#2	.0000	.0013	-.0159	-.0005	.0103	-.0016	.0018		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	176350.	36776.	2090.2	6421.6					
Stddev	275.	3.	6.6	4.1					
%RSD	.15596	.00899	.31729	.06382					
#1	176550.	36779.	2094.9	6418.7					
#2	176160.	36774.	2085.5	6424.5					

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Sample Name: mp79776-b1 3 Acquired: 6/3/2014 2:19:19 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	2.229	.0518	.0530	.4855	.1959	.2798	.4965	.4936	.0521
Stddev	.068	.0014	.0006	.0048	.0026	.0020	.0071	.0045	.0003
%RSD	3.031	2.767	1.150	.9860	1.319	.7004	1.429	.9135	.5956
#1	2.181	.0508	.0525	.4821	.1940	.2784	.4915	.4905	.0519
#2	2.276	.0528	.0534	.4889	.1977	.2812	.5015	.4968	.0523
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.5027	.4987	2.160	2.042	1.920	2.329	.5777	2.081	22.00
Stddev	.0073	.0046	.024	.015	.019	.024	.0074	.050	.59
%RSD	1.444	.9249	1.115	.7481	.9812	1.022	1.280	2.410	2.666
#1	.4975	.4955	2.143	2.031	1.907	2.312	.5725	2.045	21.58
#2	.5078	.5020	2.177	2.053	1.934	2.346	.5829	2.116	22.41
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	1.052	22.03	26.74	27.51	.0012	.0005	.0025	1.058	-.0002
Stddev	.026	.56	.73	.78	.0001	.0002	.0002	.010	.0002
%RSD	2.523	2.564	2.743	2.831	9.583	34.38	8.604	.9792	103.0
#1	1.033	21.63	26.22	26.96	.0012	.0006	.0023	1.051	.0000
#2	1.071	22.43	27.25	28.06	.0013	.0004	.0026	1.065	-.0003
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0162	.0014	-.0128	-.0004	.7369	-.0043	.0026		
Stddev	.0005	.0000	.0004	.0001	.0099	.0010	.0005		
%RSD	3.166	1.599	3.067	14.51	1.343	22.18	18.69		
#1	.0158	.0014	-.0131	-.0003	.7299	-.0050	.0030		
#2	.0165	.0014	-.0125	-.0004	.7439	-.0037	.0023		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	167510.	36349.	1993.5	6045.6					
Stddev	1578.	836.	20.6	52.5					
%RSD	.94226	2.3000	1.0339	.86837					
#1	168630.	36940.	2008.1	6082.7					
#2	166400.	35758.	1978.9	6008.5					

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Sample Name: mp79776-s1 Acquired: 6/3/2014 2:25:11 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 2.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	
Avg	2.355	.0535	.0471	.4924	1.432	.9130	6.503	1.758	
Stddev	.039	.0005	.0003	.0013	.005	.0023	.009	.002	
%RSD	1.648	.9854	.6195	.2688	.3651	.2481	.1381	.1060	
#1	2.383	.0539	.0469	.4915	1.428	.9146	6.497	1.757	
#2	2.328	.0531	.0473	.4934	1.435	.9114	6.509	1.760	
Elem	Ag3280	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	
Avg	.0816	.5989	.9749	2.316	1.855	2.794	2.543	.6062	
Stddev	.0019	.0004	.0040	.018	.002	.002	.021	.0068	
%RSD	2.332	.0643	.4150	.7679	.0841	.0533	.8044	1.117	
#1	.0830	.5992	.9778	2.304	1.856	2.793	2.529	.6014	
#2	.0803	.5986	.9721	2.329	1.854	2.795	2.558	.6110	
Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	
Avg	13.36	31.82	591.4	26.87	34.34	168.4	1.143	.0887	
Stddev	.17	.32	4.1	.24	.49	2.5	.0024	.0011	
%RSD	1.271	1.011	.6990	.8951	1.436	1.474	1.729	1.190	
#1	13.48	32.04	594.3	27.04	34.69	170.2	.1396	.0879	
#2	13.24	31.59	588.5	26.70	34.00	166.7	.1430	.0894	
Elem	Pd3404	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	
Avg	.0534	4.921	.0165	.0783	.4080	.0141	F -.0424	F 998.3	
Stddev	.0010	.021	.0024	.0010	.0007	.0009	.0004	.17	
%RSD	1.917	.4292	14.23	1.333	.1717	6.713	1.011	.1727	
#1	.0526	4.906	.0149	.0791	.4075	.0135	-.0421	997.1	
#2	.0541	4.936	.0182	.0776	.4085	.0148	-.0427	999.6	
Elem	Bi2230	Li6707							
Avg	.0144	.0408							
Stddev	.0001	.0007							
%RSD	.6330	1.641							
#1	.0145	.0412							
#2	.0144	.0403							

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Sample Name: mp79776-s1 Acquired: 6/3/2014 2:25:11 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 2.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	166090.	34490.	1912.0	6071.2
Stddev	317.	436.	23.6	44.3
%RSD	.19057	1.2651	1.2341	.72904
#1	165870.	34182.	1928.7	6102.5
#2	166310.	34799.	1895.3	6039.9

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Sample Name: ccv Acquired: 6/3/2014 2:31:15 Type: QC
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.186	1.989	2.077	1.907	1.817	2.185	1.847	1.899	2.422
Stddev	.002	.001	.009	.009	.004	.005	.004	.012	.0007
%RSD	.0720	.0452	.4328	.4860	.2451	.2492	.2040	.6279	.3087
#1	2.184	1.988	2.070	1.901	1.820	2.182	1.849	1.890	.2427
#2	2.187	1.990	2.083	1.914	1.813	2.189	1.844	1.907	.2416

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.940	F 1.779	2.090	2.013	1.887	2.173	F 2.258	39.04	F 35.06
Stddev	.002	.007	.012	.004	.012	.012	.012	.02	.05
%RSD	.1018	.4166	.5536	.1977	.6467	.5491	.5187	.0418	.1480

#1	1.942	1.774	2.082	2.010	1.879	2.164	2.250	39.03	35.02
#2	1.939	1.784	2.098	2.016	1.896	2.181	2.266	39.05	35.10

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail
Value		2.000					2.000		40.00
Range		-10.00%					10.00%		-10.00%

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	37.94	F 33.77	40.86	41.79	F 2.239	2.132	2.154	5.494	2.059
Stddev	.02	.11	.02	.10	.012	.011	.001	.027	.013
%RSD	.0649	.3388	.0555	.2396	.5475	.5366	.0578	.4872	.0615

#1	37.92	33.69	40.88	41.72	2.230	2.124	2.153	5.475	2.050
#2	37.95	33.85	40.84	41.86	2.248	2.141	2.155	5.513	2.068

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value		40.00			2.000				
Range		-10.00%			10.00%				

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Sample Name: ccv Acquired: 6/3/2014 2:31:15 Type: QC
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.088	1.878	2.012	1.943	2.093	F 2.337	F 2.313
Stddev	.001	.003	.018	.002	.018	.011	.004
%RSD	.0381	.1654	.9184	.1116	.8635	.4597	.1675

#1	2.087	1.880	1.999	1.944	2.106	2.329	2.310
#2	2.089	1.876	2.025	1.941	2.080	2.345	2.315

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail
Value						2.000	2.000
Range						10.00%	10.00%

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	167800.	35896.	2003.1	5925.0
Stddev	333.	66.	4.1	16.5
%RSD	.19852	.18337	.20343	.27889

#1	167560.	35943.	2005.9	5936.6
#2	168030.	35850.	2000.2	5913.3

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Sample Name: ccb Acquired: 6/3/2014 2:37:05 Type: QC
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0002	W .0006	.0004	.0003	.0020	.0004	.0008
Stddev	.0000	.0000	.0001	.0001	.0003	.0004	.0001	.0002
%RSD	42.59	10.18	10.61	29.21	104.9	19.18	39.82	23.82

#1	.0001	.0002	.0007	.0005	.0001	.0022	.0003	.0009
#2	.0001	.0002	.0006	.0003	.0004	.0017	.0005	.0007

Check ?	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			.0005					
Low Limit			-.0005					

Elem	Ag3280	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0002	.0002	.0011	.0000	.0004	.0023	.0001
Stddev	.000	.0002	.0000	.0009	.001	.0002	.0001	.0008
%RSD	309.9	91.57	10.22	82.48	9344.	51.62	5.169	794.5

#1	-.0002	.0001	.0002	-.0017	-.0009	-.0003	.0022	.0005
#2	.0001	.0003	.0002	-.0004	.0008	-.0006	.0024	-.0007

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0020	.0021	.0051	.0076	.0010	.0291	.0010	.0008
Stddev	.0014	.0003	.0001	.0025	.0084	.0014	.0009	.0002
%RSD	72.17	13.40	2.557	33.44	800.2	4.887	89.79	30.20

#1	.0030	.0019	.0052	.0058	.0070	.0281	.0016	.0010
#2	.0010	.0023	.0050	.0094	-.0049	.0301	.0003	.0006

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

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Sample Name: ccb Acquired: 6/3/2014 2:37:05 Type: QC
 Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
 User: admin Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Pd3404	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009	.0019	.0007	.0002	.0005	.0077	.0000	W .0193
Stddev	.0006	.0006	.0001	.0000	.0002	.0005	.0000	.0047
%RSD	65.83	32.75	15.78	5.465	46.64	5.950	196.6	24.37
#1	.0005	.0015	.0006	.0002	.0006	.0074	.0000	.0226
#2	.0013	.0023	.0008	.0002	.0003	.0080	.0000	.0159

Check ? High Limit Low Limit
 Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Warn .0050
 - .0050

Elem	Bi2230	Li6707
Units	ppm	ppm
Avg	.0001	.0023
Stddev	.0006	.0006
%RSD	836.8	28.00
#1	.0005	.0028
#2	.0003	.0019

Check ? High Limit Low Limit
 Chk Pass Chk Pass

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	179830.	36992.	2095.6	6391.6
Stddev	6109.	604.	25.7	66.8
%RSD	3.3970	1.6333	1.2263	1.0453
#1	175510.	37420.	2113.8	6438.9
#2	184140.	36565.	2077.4	6344.4

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Sample Name: mp79776-s2 Acquired: 6/3/2014 2:49:09 Type: Unk
 Method: Accutest1(v88) Mode: CONC Corr. Factor: 2.000000
 User: admin Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Avg	2.339	.0528	.0489	.4955	1.446	.9281	6.482	1.780
Stddev	.006	.0003	.0001	.0039	.002	.0023	.005	.010
%RSD	.2463	.5390	.1229	.7871	.1274	.2516	.0814	.5394
#1	2.335	.0530	.0488	.4983	1.447	.9297	6.478	1.787
#2	2.343	.0526	.0489	.4927	1.445	.9264	6.486	1.774

Elem	Ag3280	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068
Avg	.0769	.5994	.9835	2.343	1.856	2.806	2.575	.6151
Stddev	.0009	.0018	.0052	.007	.014	.015	.005	.0021
%RSD	1.142	.2963	.5239	.2915	.7574	.5478	.1919	.3364
#1	.0762	.6006	.9871	2.347	1.866	2.817	2.579	.6137
#2	.0775	.5981	.9799	2.338	1.846	2.795	2.572	.6166

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Avg	13.37	31.42	580.2	26.33	34.03	168.2	1.453	.0810
Stddev	.01	.23	.8	.13	.07	1.0	.0003	.0001
%RSD	.0872	.7448	.1333	.4902	.2001	.6103	.2298	.1248
#1	13.36	31.59	580.7	26.42	33.98	167.4	.1455	.0911
#2	13.38	31.26	579.6	26.24	34.08	168.9	.1450	.0909

Elem	Pd3404	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820
Avg	.0520	5.226	.0185	.0781	.4135	.0215	F -.0412	F 1017.
Stddev	.0010	.024	.0001	.0001	.0016	.0012	.0000	5.
%RSD	2.016	.4488	.7861	.1404	.3959	5.411	.0557	.5337
#1	.0527	5.243	.0184	.0782	.4147	.0207	-.0412	1021.
#2	.0513	5.210	.0186	.0780	.4124	.0223	-.0412	1014.

Elem	Bi2230	Li6707
Avg	.0149	.0420
Stddev	.0002	.0003
%RSD	1.666	.7336
#1	.0150	.0422
#2	.0147	.0418

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Sample Name: mp79776-s1 Acquired: 6/3/2014 2:43:12 Type: Unk
 Method: Accutest1(v88) Mode: CONC Corr. Factor: 20.000000
 User: admin Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	2.235	.0532	.0521	.5057	1.450	.8962	6.797	1.809	.0930
Stddev	.012	.0001	.0023	.0016	.000	.0107	.025	.020	.0049
%RSD	.5258	.1613	4.445	.3117	.0050	1.190	.3752	1.105	5.296
#1	2.244	.0533	.0504	.5068	1.450	.9037	6.779	1.823	.0895
#2	2.227	.0531	.0537	.5046	1.450	.8886	6.815	1.795	.0965

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.5914	1.047	2.183	1.964	2.950	2.332	.5645	12.78	31.75
Stddev	.0010	.010	.018	.026	.043	.021	.0063	.01	.20
%RSD	.1612	.9397	.8322	1.351	1.467	.9074	1.111	.0613	.6227
#1	.5907	1.054	2.195	1.983	2.980	2.317	.5689	12.79	31.61
#2	.5921	1.040	2.170	1.945	2.919	2.347	.5601	12.78	31.89

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	605.5	26.10	31.54	157.8	.1386	.0850	.0633	5.264	.0266
Stddev	.5	.19	.07	.2	.0019	.0033	.0045	.079	.0020
%RSD	.0830	.7101	.2097	.1073	1.344	3.851	7.180	1.492	7.468
#1	605.1	25.97	31.59	157.7	.1399	.0873	.0601	5.319	.0252
#2	605.8	26.24	31.49	157.9	.1373	.0827	.0665	5.208	.0280

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Avg	.0764	.4083	-.2081	-.0492	1133.	.0004	.0809
Stddev	.0006	.0045	.0032	.0009	7.	.0264	.0024
%RSD	.7620	1.108	1.538	1.875	.6580	6397.	2.904
#1	.0760	.4051	-.2058	-.0499	1139.	.0191	.0826
#2	.0769	.4115	-.2103	-.0486	1128.	-.0182	.0793

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	174090.	36455.	2053.0	6348.0
Stddev	198.	92.	18.6	52.1
%RSD	.11386	.25108	.90757	.81997
#1	174230.	36520.	2039.8	6311.2
#2	173950.	36391.	2066.2	6384.8

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Sample Name: mp79776-s2 Acquired: 6/3/2014 2:49:09 Type: Unk
 Method: Accutest1(v88) Mode: CONC Corr. Factor: 2.000000
 User: admin Custom ID1: Custom ID2: Custom ID3:
 Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	164460.	34703.	1867.6	5966.2
Stddev	370.	49.	6	14.4
%RSD	.22476	.14151	.03158	.24171
#1	164190.	34738.	1868.0	5956.0
#2	164720.	34668.	1867.2	5976.4

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Sample Name: mp79776-s2 Acquired: 6/3/2014 2:55:11 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 20.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	2.235	.0518	.0492	.5127	1.480	.9139	6.978	1.848	.0925
Stddev	.007	.0005	.0005	.0020	.001	.0081	.003	.016	.0028
%RSD	.3365	.9896	1.089	.3815	.0379	.8844	.0470	.8468	2.983
#1	2.230	.0514	.0496	.5113	1.480	.9082	6.981	1.837	.0905
#2	2.241	.0521	.0488	.5141	1.479	.9196	6.976	1.859	.0944
Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.5989	1.053	2.184	1.986	2.990	2.344	.5903	13.04	31.87
Stddev	.0016	.006	.025	.043	.021	.043	.0058	.06	.07
%RSD	.2611	.5355	1.124	2.146	.6944	1.846	.9750	.4279	.2180
#1	.5978	1.049	2.167	1.956	2.975	2.313	.5944	13.08	31.82
#2	.6000	1.057	2.202	2.016	3.005	2.374	.5862	13.00	31.92
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	618.4	26.16	31.96	159.4	.1516	.0784	.0693	5.305	.0214
Stddev	2.4	.35	.09	.3	.0102	.0038	.0084	.037	.0140
%RSD	.3907	1.340	.2955	.2005	6.725	4.791	12.07	.6901	65.24
#1	616.7	25.91	32.03	159.1	.1444	.0757	.0753	5.279	.0313
#2	620.1	26.40	31.89	159.6	.1588	.0811	.0634	5.330	.0115
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0785	.4182	-.2625	-.0578	1151.	.0054	.0824		
Stddev	.0000	.0001	.0016	.0000	10.	.0025	.0103		
%RSD	.0149	.0187	.6006	.0802	.8975	46.52	12.47		
#1	.0785	.4182	-.2614	-.0578	1144.	.0036	.0896		
#2	.0785	.4181	-.2636	-.0578	1158.	.0071	.0751		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	173330.	36338.	2050.3	6340.1					
Stddev	768.	77.	20.4	52.8					
%RSD	.44305	.21125	.99576	.83318					
#1	173870.	36393.	2064.7	6377.4					
#2	172780.	36284.	2035.9	6302.7					

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Sample Name: jb67923-2a Acquired: 6/3/2014 3:01:09 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 2.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	
Avg	.0335	.0005	-.0060	.0385	1.258	.6459	6.089	1.315	
Stddev	.0000	.0000	.0000	.0004	.014	.0005	.006	.018	
%RSD	.0917	3.426	.4561	.9793	1.142	.0782	.0922	1.390	
#1	.0335	.0005	-.0060	.0388	1.268	.6462	6.085	1.328	
#2	.0335	.0005	-.0059	.0383	1.248	.6455	6.093	1.302	
Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	
Avg	.0297	.1140	.5034	.1172	F -.0250	1.050	.0111	.0245	
Stddev	.0015	.0012	.0061	.0039	.0010	.014	.0012	.0000	
%RSD	5.036	1.028	1.204	3.369	3.905	1.356	10.97	.1596	
#1	.0286	.1149	.5077	.1200	-.0257	1.061	.0120	.0244	
#2	.0307	.1132	.4991	.1144	-.0243	1.040	.0103	.0245	
Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	
Avg	11.02	9.848	579.2	4.752	6.069	136.3	.1413	.0889	
Stddev	.01	.030	.9	.017	.076	.3	.0018	.0009	
%RSD	.0790	.3035	.1475	.3545	1.251	.2302	1.278	.9832	
#1	11.01	9.827	578.6	4.740	6.122	136.5	.1426	.0896	
#2	11.02	9.869	579.8	4.764	6.015	136.0	.1400	.0883	
Elem	Pd3404	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	
Avg	.0505	4.716	.0175	.0767	.4086	.0052	F -.0427	F 993.6	
Stddev	.0017	.081	.0002	.0001	.0038	.0000	.0000	9.6	
%RSD	3.342	1.727	.8642	.1085	.9267	.2660	.0068	.9675	
#1	.0493	4.774	.0176	.0767	.4113	.0052	-.0427	1000.	
#2	.0517	4.658	.0174	.0768	.4059	.0052	-.0427	986.8	
Elem	Bi2230	Li6707							
Avg	.0156	.0408							
Stddev	.0008	.0002							
%RSD	5.343	.3846							
#1	.0162	.0407							
#2	.0150	.0410							

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Sample Name: jb67923-2a Acquired: 6/3/2014 3:01:09 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 2.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	167190.	34756.	1917.4	6118.7
Stddev	936.	41.	11.3	45.7
%RSD	.55975	.11932	.58862	.74743
#1	166530.	34727.	1909.4	6086.3
#2	167850.	34785.	1925.4	6151.0

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Sample Name: mp79776-sd1 Acquired: 6/3/2014 3:07:16 Type: Unk
Method: Accutest1(v88) Mode: CONC Corr. Factor: 10.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.0311	.0005	-.0051	.0409	1.291	.6365	6.482	1.379	.0458
Stddev	.0019	.0001	.0008	.0007	.006	.0007	.009	.017	.0019
%RSD	5.962	11.86	15.10	1.600	.4565	.1051	.1340	1.250	4.135
#1	.0298	.0004	-.0046	.0414	1.295	.6370	6.488	1.391	.0445
#2	.0324	.0005	-.0057	.0405	1.287	.6360	6.475	1.367	.0471
Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.1140	.5397	.1164	-.0186	1.129	.0249	.0178	11.10	10.22
Stddev	.0001	.0040	.0028	.0043	.002	.0015	.0000	.02	.04
%RSD	.0695	.7438	2.376	23.21	.1791	6.177	.1046	.2021	.4316
#1	.1141	.5426	.1183	-.0216	1.131	.0260	.0178	11.12	10.18
#2	.1140	.5369	.1144	-.0155	1.128	.0239	.0177	11.09	10.25
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	626.3	4.764	6.154	135.8	1.403	.0855	.0561	5.120	.0198
Stddev	.4	.083	.074	.4	.0019	.0023	.0018	.076	.0038
%RSD	.0632	1.745	1.203	.2916	1.356	2.632	3.216	1.490	19.27
#1	626.0	4.705	6.206	136.0	.1390	.0839	.0548	5.174	.0225
#2	626.6	4.823	6.102	135.5	.1417	.0871	.0573	5.066	.0171
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0768	.4175	-.1238	-.0502	F 1149.	.0159	.0554		
Stddev	.0003	.0012	.0056	.0004	10.	.0057	.0039		
%RSD	.3678	.2954	4.517	.7385	.8723	35.68	7.060		
#1	.0766	.4184	-.1198	-.0505	1156.	.0119	.0526		
#2	.0770	.4167	-.1277	-.0500	1142.	.0199	.0581		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	172190.	35662.	2041.5	6349.5					
Stddev	376.	50.	13.4	53.9					
%RSD	.21817	.13928	.65834	.84849					
#1	171930.	35627.	2032.0	6311.4					
#2	172460.	35697.	2051.0	6387.6					

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Sample Name: jb67923-2a Acquired: 6/3/2014 3:13:14 Type: Unk
 Method: Accutest1(v88) Mode: CONC Corr. Factor: 20.000000
 User: admin Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.0305	-0.001	-0.0015	.0424	1.273	.6359	6.374	1.366	.0449
Stddev	.0009	.0000	.0003	.0024	.007	.0030	.025	.005	.0003
%RSD	2.880	3.570	21.49	5.566	.5157	.4669	.3865	.3529	.7115
#1	.0298	-.0001	-.0013	.0407	1.268	.6380	6.356	1.369	.0451
#2	.0311	-.0001	-.0018	.0440	1.277	.6338	6.391	1.362	.0447
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.1082	.5795	.0909	-.0047	1.118	.0751	.0229	10.78	10.42
Stddev	.0008	.0008	.0081	.0127	.000	.0002	.0024	.11	.04
%RSD	.7659	.1301	8.936	272.7	.0124	.2279	10.63	.9905	.3400
#1	.1088	.5790	.0967	-.0136	1.117	.0753	.0211	10.71	10.44
#2	.1077	.5801	.0852	.0043	1.118	.0750	.0246	10.86	10.39
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	612.2	4.851	5.364	130.9	.1413	.0788	.0640	5.124	.0140
Stddev	1.4	.108	.366	.0	.0067	.0010	.0100	.014	.0109
%RSD	.2243	2.227	6.818	.0170	4.742	1.228	15.62	.2801	78.20
#1	613.2	4.927	5.623	130.9	.1460	.0781	.0711	5.134	.0063
#2	611.3	4.775	5.105	130.8	.1365	.0794	.0569	5.114	.0217
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0758	.4055	-.2954	-.0582	1139.	.0141	.0670		
Stddev	.0001	.0003	.0036	.0029	4.	.0047	.0024		
%RSD	.1364	.0827	1.205	4.974	.3403	33.56	3.597		
#1	.0759	.4058	-.2979	-.0603	1142.	.0175	.0653		
#2	.0758	.4053	-.2929	-.0562	1136.	.0108	.0688		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	172850.	35891.	2058.8	6332.2					
Stddev	309.	106.	3.7	26.5					
%RSD	.17877	.29576	.17964	.41925					
#1	173060.	35816.	2056.2	6313.5					
#2	172630.	35966.	2061.4	6351.0					

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Sample Name: jb67923-4a Acquired: 6/3/2014 3:25:17 Type: Unk
 Method: Accutest1(v88) Mode: CONC Corr. Factor: 10.000000
 User: admin Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.0353	.0004	.0006	.0106	.3874	.1080	2.012	.2030	.0180
Stddev	.0006	.0003	.0013	.0015	.0003	.0017	.002	.0001	.0015
%RSD	1.615	73.72	222.0	13.88	.0713	1.638	.1146	.0290	8.161
#1	.0349	.0002	-.0003	.0116	.3876	.1072	2.011	.2030	.0170
#2	.0357	.0006	.0015	.0095	.3872	.1047	2.014	.2031	.0190
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0268	2.824	.0193	-.0107	.6086	.0400	-.0033	4.883	3.383
Stddev	.0004	.002	.0000	.0001	.0038	.0032	.0099	.003	.008
%RSD	1.553	.0530	.2188	.9180	.6261	7.988	302.1	.0560	.2416
#1	.0265	2.823	.0193	-.0107	.6059	.0377	-.0102	4.881	3.388
#2	.0271	2.825	.0193	-.0108	.6113	.0423	.0037	4.885	3.377
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	216.7	.8893	2.549	67.18	.0914	.0046	.0178	3.806	.0101
Stddev	.6	.1672	.154	.10	.0018	.0012	.0001	.000	.0033
%RSD	.2934	18.80	6.049	.1507	1.937	25.66	.6435	.0055	32.30
#1	217.1	.7710	2.440	67.11	.0902	.0054	.0177	3.806	.0078
#2	216.2	1.007	2.658	67.25	.0927	.0037	.0179	3.806	.0124
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0502	.1979	-.1415	-.0301	673.2	-.0040	.0355		
Stddev	.0001	.0010	.0027	.0010	2.1	.0066	.0039		
%RSD	.1493	.5245	1.889	3.481	.3095	162.2	10.93		
#1	.0502	.1986	-.1396	-.0293	671.7	-.0006	.0382		
#2	.0503	.1972	-.1434	-.0308	674.7	-.0087	.0328		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	174460.	36308.	2061.9	6359.0					
Stddev	192.	63.	3.3	4.5					
%RSD	.10988	.17439	.16011	.07104					
#1	174600.	36263.	2064.2	6362.2					
#2	174320.	36352.	2059.6	6355.8					

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Sample Name: mp79776-sd1 Acquired: 6/3/2014 3:19:13 Type: Unk
 Method: Accutest1(v88) Mode: CONC Corr. Factor: 100.000000
 User: admin Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.2018	-.0004	.0091	.0301	1.297	.8082	6.593	1.351	.0669
Stddev	.0009	.0014	.0064	.0117	.031	.0240	.061	.031	.0076
%RSD	.4363	389.0	70.69	38.65	2.376	2.966	.9197	2.293	11.42
#1	.2012	-.0014	.0045	.0219	1.275	.7912	6.550	1.373	.0723
#2	.2024	.0006	.0136	.0384	1.318	.8251	6.635	1.329	.0615
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0805	.9197	.0201	-.0374	1.114	.1785	-.0256	11.27	12.12
Stddev	.0082	.0094	.0493	.0520	.010	.0185	.0092	.59	.14
%RSD	10.15	1.025	244.7	139.0	.8663	10.35	36.06	5.207	1.116
#1	.0862	.9264	-.0147	-.0742	1.121	.1655	-.0321	11.69	12.21
#2	.0747	.9131	.0550	-.0006	1.107	.1916	-.0191	10.86	12.02
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	628.1	5.212	4.028	134.4	.1279	.0511	.0494	10.21	.0714
Stddev	.6	.450	.656	.2	.0486	.0072	.0490	.24	.0235
%RSD	.0957	8.629	16.30	.1295	38.00	14.19	99.27	2.307	32.86
#1	628.5	4.894	3.564	134.6	.1623	.0562	.0147	10.38	.0880
#2	627.6	5.530	4.492	134.3	.0935	.0459	.0841	10.04	.0548
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0769	.4538	-.1664	-.0902	1192.	.0630	.2010		
Stddev	.0053	.0113	.017	.0039	13.	.0093	.0282		
%RSD	6.866	2.499	1.048	4.321	1.057	14.76	14.03		
#1	.0806	.4458	-.1652	-.0929	1201.	.0696	.1811		
#2	.0732	.4619	-.1676	-.0874	1183.	.0564	.2209		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	176130.	37010.	2088.2	6367.8					
Stddev	1342.	120.	14.2	61.2					
%RSD	.76194	.32420	.67865	.96098					
#1	177080.	36926.	2078.2	6324.5					
#2	175180.	37095.	2098.2	6411.1					

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Sample Name: jb67923-5a Acquired: 6/3/2014 3:31:17 Type: Unk
 Method: Accutest1(v88) Mode: CONC Corr. Factor: 10.000000
 User: admin Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.0334	.0007	-.0004	.0321	.7542	.0449	2.512	.3759	.0227
Stddev	.0008	.0001	.0002	.0007	.0187	.0039	.057	.0045	.0008
%RSD	2.386	14.25	51.52	2.175	2.477	8.581	2.270	1.210	3.655
#1	.0328	.0008	-.0003	.0316	.7674	.0476	2.552	.3727	.0221
#2	.0340	.0006	-.0006	.0326	.7410	.0422	2.471	.3791	.0233
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0419	.4508	.0454	-.0098	1.008	.0319	.0013	15.67	6.924
Stddev	.0018	.0011	.0045	.0022	.003	.0045	.0023	.03	.011
%RSD	4.357	.2443	9.976	22.15	.3380	14.06	171.4	.2151	.1646
#1	.0432	.4500	.0486	-.0113	1.005	.0350	-.0003	15.64	6.916
#2	.0406	.4516	.0422	-.0082	1.010	.0287	.0029	15.69	6.933
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	278.0	1.972	8.759	169.8	.1012	-.0007	.0565	3.272	.0191
Stddev	.0	.019	.160	.1	.0032	.0010	.0027	.012	.0033
%RSD	.0100	.9750	1.826	.0769	3.122	146.0	4.707	.3769	170.9
#1	278.0	1.985	8.646	169.7	.0990	.0000	.0547	3.263	.0042
#2	278.1	1.958	8.872	169.9	.1034	-.0013	.0584	3.281	-.0004
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0937	.7222	-.1552	-.0458	F 1421.	.0092	.0572		
Stddev	.0001	.0166	.0037	.0005	8.	.0016	.0018		
%RSD	.0944	2.296	2.390	1.106	.5902	17.61	3.086		
#1	.0936	.7340	-.1526	-.0455	1415.	.0081	.0560		
#2	.0938	.7105	-.1579	-.0462	1427.	.0104	.0585		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	170700.	36062.	2055.6	6307.5					
Stddev	3486.	106.	9.9	31.7					
%RSD	2.0419	.29360	.47985	.50218					
#1	168240.	35987.	2062.6	6329.9					
#2	173170.	36137.	2048.7	6285.1					

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Sample Name: ccv Acquired: 6/3/2014 3:37:17 Type: QC									
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000									
User: admin Custom ID1: Custom ID2: Custom ID3:									
Comment:									
Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 2.214	2.018	2.064	1.899	1.812	2.175	1.838	1.887	2.418
Stddev	.038	.044	.021	.018	.005	.006	.007	.018	.0011
%RSD	1.719	2.163	.9981	.9528	.2995	.2847	.3873	.9618	.4738
#1	2.241	2.048	2.050	1.886	1.816	2.170	1.843	1.874	2.426
#2	2.187	1.987	2.079	1.912	1.808	2.179	1.833	1.900	2.410
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	2.000								
Range	10.00%								
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.934	F 1.766	2.089	1.995	1.875	2.179	F 2.255	39.60	F 35.46
Stddev	.004	.014	.021	.025	.016	.026	.024	.81	.81
%RSD	.1882	.7920	1.023	1.248	.8486	1.205	1.063	2.040	2.283
#1	1.937	1.756	2.074	1.977	1.863	2.160	2.238	40.17	36.03
#2	1.932	1.776	2.104	2.012	1.886	2.197	2.272	39.03	34.89
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail
Value		2.000					2.000		40.00
Range		-10.00%					10.00%		-10.00%
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	38.35	F 34.13	41.32	42.30	F 2.245	2.126	2.146	5.471	2.050
Stddev	.82	.70	.74	.81	.026	.025	.005	.065	.022
%RSD	2.135	2.055	1.799	1.904	1.157	1.172	.2546	1.196	1.088
#1	38.93	34.62	41.84	42.87	2.226	2.109	2.142	5.425	2.034
#2	37.77	33.63	40.79	41.73	2.263	2.144	2.150	5.517	2.066
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value		40.00			2.000				
Range		-10.00%			10.00%				

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Sample Name: ccv Acquired: 6/3/2014 3:37:17 Type: QC									
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000									
User: admin Custom ID1: Custom ID2: Custom ID3:									
Comment:									
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm		
Avg	2.110	1.866	2.002	1.932	2.058	F 2.338	F 2.349		
Stddev	.039	.004	.029	.002	.021	.029	.042		
%RSD	1.835	.1889	1.441	.0973	1.005	1.222	1.765		
#1	2.137	1.869	1.982	1.934	2.044	2.318	2.379		
#2	2.083	1.864	2.023	1.931	2.073	2.358	2.320		
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail		
Value						2.000	2.000		
Range						10.00%	10.00%		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Units	Cts/S	Cts/S	Cts/S	Cts/S					
Avg	168420.	35428.	2000.3	5928.2					
Stddev	348.	667.	21.2	56.4					
%RSD	.20647	1.8817	1.0602	.95202					
#1	168670.	34956.	2015.2	5968.1					
#2	168170.	35899.	1985.3	5888.3					

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Sample Name: ccb Acquired: 6/3/2014 3:43:07 Type: QC									
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000									
User: admin Custom ID1: Custom ID2: Custom ID3:									
Comment:									
Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.0003	.0003	W .0006	.0004	.0001	.0021	.0003	-0.0008	
Stddev	.0001	.0000	.0002	.0001	.0000	.0001	.0000	.0000	
%RSD	52.98	12.83	38.07	26.30	5.028	3.132	2.250	2.000	
#1	.0004	.0004	.0005	.0004	.0001	.0021	.0003	-0.0008	
#2	.0002	.0003	.0008	.0005	.0001	.0020	.0003	-0.0008	
Check ?	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	
High Limit			.0005						
Low Limit			-.0005						
Elem	Ag3280	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.0001	.0001	.0002	-0.0004	-0.0005	-0.0009	.0021	-0.0007	
Stddev	.0002	.0000	.0000	.0005	.0002	.0006	.0002	.0004	
%RSD	110.2	109.9	7.139	130.3	44.29	63.96	8.604	54.39	
#1	.0003	.0002	.0002	-.0007	-.0006	-.0013	.0023	-.0009	
#2	.0000	.0000	.0002	.0000	-.0003	-.0005	.0020	-.0004	
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	
High Limit									
Low Limit									
Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.0035	.0051	.0070	.0086	.0099	.0322	.0011	.0007	
Stddev	.0021	.0012	.0002	.0064	.0105	.0025	.0009	.0000	
%RSD	60.13	24.40	3.295	74.39	106.2	7.804	82.78	.1602	
#1	.0049	.0060	.0071	.0131	.0025	.0340	.0004	.0007	
#2	.0020	.0042	.0068	.0041	.0173	.0304	.0017	.0007	
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	
High Limit									
Low Limit									

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Sample Name: ccb Acquired: 6/3/2014 3:43:07 Type: QC									
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000									
User: admin Custom ID1: Custom ID2: Custom ID3:									
Comment:									
Elem	Pd3404	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.0008	.0024	.0003	.0004	.0004	-0.0079	.0000	W .0086	
Stddev	.0007	.0009	.0000	.0000	.0001	.0010	.000	.0033	
%RSD	85.18	36.02	1.473	6.536	25.75	12.71	93.08	38.11	
#1	.0003	.0018	.0003	.0004	.0003	-.0072	.0000	.0063	
#2	.0013	.0030	.0003	.0004	.0005	-.0086	.0000	.0109	
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	
High Limit								.0050	
Low Limit								-.0050	
Elem	Bi2230	Li6707							
Units	ppm	ppm							
Avg	-0.0001	.0020							
Stddev	.0002	.0004							
%RSD	242.5	19.50							
#1	-.0003	.0017							
#2	.0001	.0023							
Check ?	Chk Pass	Chk Pass							
High Limit									
Low Limit									
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Units	Cts/S	Cts/S	Cts/S	Cts/S					
Avg	177650.	36646.	2123.6	6454.4					
Stddev	722.	141.	17.6	52.4					
%RSD	.40637	.38466	.82845	.81127					
#1	177140.	36547.	2111.2	6417.3					
#2	178160.	36746.	2136.0	6491.4					

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Sample Name: cri Acquired: 6/3/2014 3:49:14 Type: QC
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2158	.0022	W .0036	.0496	.0096	W .0124	.0148	.0090
Stddev	.0028	.0000	.0001	.0002	.0003	.0003	.0001	.0001
%RSD	1.281	1.168	3.238	.3527	3.046	2.670	.3627	.8545
#1	.2139	.0022	.0037	.0494	.0094	.0122	.0148	.0090
#2	.2178	.0022	.0035	.0497	.0098	.0127	.0148	.0091

Check ?	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass
Value			.0030			.0100		
Range			20.00%			20.00%		

Elem	Ag3280	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0051	.0511	.0189	.0089	.0103	.0029	W .0126	.0067
Stddev	.0002	.0005	.0001	.0001	.0004	.0007	.0002	.0002
%RSD	3.898	1.016	.4345	.9046	3.606	23.82	1.908	2.837
#1	.0053	.0507	.0188	.0090	.0106	.0024	.0125	.0066
#2	.0050	.0514	.0189	.0088	.0101	.0033	.0128	.0069

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
Value							.0100	
Range							20.00%	

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2052	4.499	.1025	4.436	5.153	5.251	.1143	.0221
Stddev	.0005	.059	.0003	.073	.073	.090	.0017	.0001
%RSD	.2631	1.305	.3325	1.655	1.419	1.719	1.484	.3340
#1	.2048	4.457	.1022	4.384	5.101	5.187	.1131	.0221
#2	.2056	4.540	.1027	4.488	5.205	5.315	.1155	.0220

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

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Sample Name: cri Acquired: 6/3/2014 3:49:14 Type: QC
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pd3404	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0567	.2342	.0109	.0107	.0102	.0507	.0108	.0544
Stddev	.0011	.0018	.0003	.0002	.0003	.0004	.0002	.0013
%RSD	1.959	.7756	2.316	2.010	2.585	.7061	1.417	2.460
#1	.0559	.2329	.0107	.0106	.0100	.0505	.0107	.0535
#2	.0574	.2355	.0111	.0109	.0103	.0510	.0109	.0553

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Bi2230	Li6707
Units	ppm	ppm
Avg	W .0250	F .0274
Stddev	.0003	.0007
%RSD	1.342	2.588
#1	.0248	.0269
#2	.0252	.0279

Check ?	Chk Warn	Chk Fail
Value	.0200	.0200
Range	20.00%	30.00%

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	176300.	37046.	2098.3	6330.5
Stddev	1429.	417.	14.6	30.5
%RSD	.81073	1.1251	.69666	.48159
#1	177310.	37340.	2108.6	6352.0
#2	175290.	36751.	2087.9	6308.9

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Sample Name: crid Acquired: 6/3/2014 3:55:15 Type: QC
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0044	.0010	F .0014	.0030	.0018	F .0042	.0030	W .0029
Stddev	.0001	.0000	.0001	.0003	.0001	.0001	.0000	.0000
%RSD	1.851	3.733	8.788	9.972	4.048	1.767	1.320	6.132
#1	.0045	.0010	.0014	.0028	.0019	.0042	.0029	.0031
#2	.0043	.0010	.0013	.0032	.0018	.0041	.0030	.0028

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Warn
Value			.0010			.0020		.0040
Range			30.00%			30.00%		-20.00%

Elem	Ag3280	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010	.0017	W .0123	W .0022	.0021	F .0012	F .0080	.0029
Stddev	.0001	.0001	.0001	.0005	.0016	.0010	.0022	.0002
%RSD	15.27	4.242	.7215	24.27	75.92	87.91	27.24	7.927
#1	.0011	.0018	.0124	.0026	.0010	.0019	.0095	.0031
#2	.0009	.0017	.0123	.0019	.0032	.0004	.0064	.0028

Check ?	Chk Pass	Chk Pass	Chk Warn	Chk Warn	Chk Pass	Chk Fail	Chk Warn	Chk Pass
Value			.0100	.0030		.0025	.0050	
Range			20.00%	-20.00%		-30.00%	30.00%	

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1003	.9132	.0010	.0896	2.076	1.097	.0109	-.0004
Stddev	.0023	.0009	.0004	.0043	.007	.000	.0005	.0000
%RSD	2.242	.1017	36.49	4.819	.3215	.0363	4.925	.8462
#1	.0988	.9125	.0013	.0927	2.080	1.096	.0113	-.0004
#2	.1019	.9139	.0008	.0866	2.071	1.097	.0105	-.0004

Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value								
Range								

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Sample Name: crid Acquired: 6/3/2014 3:55:15 Type: QC
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pd3404	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	.0006	.0003	.0000	.0003	F -.0152	F -.0005	F .0012
Stddev	.0003	.0005	.0007	.0000	.0001	.0009	.0000	.0006
%RSD	95.24	84.58	207.4	87.91	37.97	6.061	5.399	47.62
#1	.0006	.0009	.0009	.0000	.0004	-.0158	-.0006	.0008
#2	.0001	.0002	-.0002	.0000	.0002	-.0145	-.0005	.0016

Check ?	None	None	None	None	None	Chk Fail	Chk Fail	Chk Fail
Value						.0040	.0040	.0040
Range						-30.00%	-30.00%	-30.00%

Elem	Bi2230	Li6707
Units	ppm	ppm
Avg	F -.0006	F .0021
Stddev	.0001	.0005
%RSD	11.22	25.84
#1	-.0006	.0025
#2	-.0007	.0017

Check ?	Chk Fail	Chk Fail
Value	.0040	.0040
Range	-30.00%	-30.00%

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	174930.	36807.	2098.3	6382.6
Stddev	259.	111.	1	4.0
%RSD	.14781	.30212	.00564	.06226
#1	174740.	36886.	2098.2	6385.4
#2	175110.	36729.	2098.4	6379.8

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Sample Name: cria Acquired: 6/3/2014 4:01:20 Type: QC									
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000									
User: admin Custom ID1: Custom ID2: Custom ID3:									
Comment:									
Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0002	.0000	.0002	.0003	.0000	.0019	.0000	-0.0010	.0001
Stddev	.0001	.000	.0002	.0001	.0000	.0001	.000	.0000	.0000
%RSD	43.66	29.00	67.66	38.83	.9686	4.839	127.0	1.331	15.29
#1	-.0002	.0000	.0003	.0002	.0000	.0018	.0000	-.0010	.0001
#2	-.0001	.0000	.0001	.0004	.0000	.0019	.0000	-.0010	.0001
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0002	.0007	.0203	.0001	.0178	.0242	.0224	.4959	.0064
Stddev	.0000	.0001	.0006	.0000	.0002	.0004	.0000	.0081	.0010
%RSD	26.95	14.02	3.123	19.13	1.066	1.572	.2225	1.638	15.40
#1	-.0002	.0007	.0199	.0001	.0177	.0244	.0225	.5016	.0071
#2	-.0001	.0008	.0208	.0001	.0179	.0239	.0224	.4901	.0057
Check ?	None	None	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value									
Range									
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4999	-0.0042	-0.0180	.0222	-0.0004	-0.0005	.0003	-0.0015	.0001
Stddev	.0008	.0006	.0095	.0079	.0009	.0001	.0002	.0000	.0004
%RSD	.1522	15.26	53.08	35.38	235.6	12.43	63.02	1.348	687.6
#1	.4994	-.0047	-.0112	.0167	.0002	-.0005	.0002	-.0015	.0003
#2	.5004	-.0038	-.0247	.0278	-.0010	-.0006	.0005	-.0015	-.0002
Check ?	Chk Pass	None	None	None	None	None	None	None	None
Value									
Range									

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Sample Name: cria Acquired: 6/3/2014 4:01:20 Type: QC							
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000							
User: admin Custom ID1: Custom ID2: Custom ID3:							
Comment:							
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0003	-0.0156	-0.0006	.0011	-0.0003	.0016
Stddev	.000	.0000	.0007	.0000	.0028	.0002	.0005
%RSD	315.6	13.83	4.715	7.154	52.23	52.23	31.04
#1	.0000	.0003	-.0151	-.0006	.0031	-.0004	.0019
#2	.0000	.0004	-.0161	-.0005	-.0009	-.0002	.0012
Check ?	None	None	None	None	None	None	None
Value							
Range							
Int. Std.	Y_3600	Y_3710	Y_2243	In2306			
Units	Cts/S	Cts/S	Cts/S	Cts/S			
Avg	176480.	36794.	2097.8	6391.0			
Stddev	334.	3.	12.2	46.5			
%RSD	.18906	.00712	.57951	.72761			
#1	176710.	36796.	2106.4	6423.9			
#2	176240.	36792.	2089.3	6358.1			

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Sample Name: ccv Acquired: 6/3/2014 4:07:27 Type: QC									
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000									
User: admin Custom ID1: Custom ID2: Custom ID3:									
Comment:									
Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 2.231	2.025	2.028	1.866	1.828	F 2.205	1.845	1.855	.2442
Stddev	.014	.012	.025	.024	.029	.031	.029	.025	.0041
%RSD	.6134	.5939	1.227	1.279	1.566	1.395	1.574	1.321	1.670
#1	2.222	2.016	2.011	1.849	1.807	2.183	1.824	1.838	.2414
#2	2.241	2.033	2.046	1.883	1.848	2.227	1.865	1.872	.2471
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value	2.000					2.000			
Range	10.00%					10.00%			
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.948	F 1.735	2.047	1.965	1.840	2.141	F 2.216	39.73	F 35.36
Stddev	.031	.023	.024	.030	.029	.027	.029	.27	.03
%RSD	1.572	1.331	1.192	1.538	1.574	1.257	1.297	.6690	.0905
#1	1.926	1.719	2.030	1.943	1.820	2.122	2.196	39.54	35.33
#2	1.969	1.752	2.064	1.986	1.861	2.160	2.236	39.91	35.38
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail
Value		2.000					2.000		40.00
Range		-10.00%					10.00%		-10.00%
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	38.33	F 33.98	41.55	42.61	F 2.210	2.091	2.174	5.372	2.018
Stddev	.18	.03	.39	.35	.022	.026	.032	.060	.027
%RSD	.4793	.0789	.9450	.8142	.9777	1.229	1.457	1.123	1.338
#1	38.20	33.96	41.28	42.37	2.195	2.072	2.152	5.329	1.998
#2	38.46	34.00	41.83	42.86	2.225	2.109	2.197	5.415	2.037
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value		40.00			2.000				
Range		-10.00%			10.00%				

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Sample Name: ccv Acquired: 6/3/2014 4:07:27 Type: QC							
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000							
User: admin Custom ID1: Custom ID2: Custom ID3:							
Comment:							
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.119	1.875	1.972	1.948	2.013	F 2.295	F 2.379
Stddev	.015	.024	.030	.026	.031	.028	.024
%RSD	.6881	1.291	1.520	1.317	1.521	1.211	1.017
#1	2.108	1.858	1.950	1.929	1.991	2.276	2.361
#2	2.129	1.893	1.993	1.966	2.035	2.315	2.396
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail
Value						2.000	2.000
Range						10.00%	10.00%
Int. Std.	Y_3600	Y_3710	Y_2243	In2306			
Units	Cts/S	Cts/S	Cts/S	Cts/S			
Avg	166480.	35328.	2026.8	6006.5			
Stddev	1897.	194.	17.5	55.2			
%RSD	1.1394	.54956	.86519	.91970			
#1	167820.	35466.	2039.0	6045.6			
#2	165140.	35191.	2014.2	5967.5			

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Sample Name: ccb Acquired: 6/3/2014 4:13:17 Type: QC
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0004	.0005	.0002	.0001	.0021	.0004	-.0010	.0001
Stddev	.0001	.0000	.0000	.0001	.0003	.0001	.0000	.0000	.0002
%RSD	32.14	2.282	1.945	22.17	404.5	6.420	2.467	.8765	305.2
#1	.0004	.0004	.0005	.0002	.0003	.0022	.0004	-.0010	.0002
#2	.0003	.0004	.0005	.0003	-.0001	.0020	.0003	-.0010	-.0001

Check ? High Limit Low Limit
Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0001	-.0009	.0008	-.0015	.0027	.0007	.0029	.0083
Stddev	.0001	.0001	.0000	.0001	.0003	.0001	.0005	.0021	.0009
%RSD	116.2	51.20	3.901	11.11	19.88	4.494	74.71	71.38	10.86
#1	.0002	.0001	-.0009	.0009	-.0013	.0026	.0003	.0014	.0077
#2	.0000	.0001	-.0010	.0008	-.0017	.0028	.0010	.0044	.0089

Check ? High Limit Low Limit
Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0060	.0021	-.0021	.0322	.0004	.0009	.0004	.0012	.0001
Stddev	.0005	.0041	.0149	.0023	.0002	.0003	.0004	.0007	.0003
%RSD	8.731	191.7	709.0	7.013	62.33	33.34	95.27	58.94	309.9
#1	.0064	-.0008	.0085	.0306	.0005	.0011	.0007	.0017	.0003
#2	.0056	.0050	-.0127	.0338	.0002	.0007	.0001	.0007	-.0001

Check ? High Limit Low Limit
Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

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Sample Name: ccb Acquired: 6/3/2014 4:13:17 Type: QC
Method: Accutest1(v88) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	.0005	-.0074	.0002	.0021	.0004	.0033
Stddev	.0000	.0001	.0008	.0002	.0016	.0005	.0006
%RSD	1.562	12.81	11.22	90.72	79.66	122.3	18.97
#1	.0004	.0006	-.0068	.0004	.0032	.0007	.0037
#2	.0004	.0005	-.0080	.0001	.0009	.0001	.0028

Check ? High Limit Low Limit
Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	175510.	36645.	2104.8	6394.5
Stddev	172.	161.	6.1	5.5
%RSD	.09813	.43966	.28930	.08569
#1	175390.	36531.	2109.1	6390.6
#2	175630.	36759.	2100.5	6398.4

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Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
Ba 455.403 { 74}	☒	3	Mg	0.000001	0.000000	No
			Al	0.000000	0.000000	No
			Zr	0.001080	0.000000	No
Be 313.042 {108}	☒	13	V	0.000649	0.000000	No
			Mo	-0.000037	0.000000	No
			Ti	-0.000287	0.000000	No
			Mn	0.000027	0.000000	No
			Ba	0.000015	0.000000	No
			Co	-0.000020	0.000000	No
			Ni	0.000004	0.000000	No
			Ca	0.000000	0.000000	No
			Cu	0.000034	0.000000	No
			Zn	-0.000010	0.000000	No
			Fe	0.000000	0.000000	No
			Cd	0.000050	0.000000	No
			W	0.000000	0.000000	No
Cd 228.802 {448}	☒	13	As	0.005000	0.000000	No
			Ni	-0.000178	0.000000	No
			Fe	0.000005	0.000000	No
			V	0.000050	0.000000	No
			Ba	-0.000047	0.000000	No
			Co	-0.000950	0.000000	No
			Sr	0.000100	0.000000	No
			Ca	-0.000003	0.000000	No
			Mn	-0.000021	0.000000	No
			Cr	0.000025	0.000000	No
			Si	-0.000005	0.000000	No
			Cu	-0.000026	0.000000	No
			Al	0.000000	0.000000	No
Co 228.616 {448}	☒	10	Fe	0.000006	0.000000	No
			Cr	-0.000100	0.000000	No
			Mo	-0.000400	0.000000	No
			Ni	0.000256	0.000000	No
			Ti	0.001639	0.000000	No
			Ba	0.000062	0.000000	No
			W	0.000000	0.000000	No
			Cd	-0.000060	0.000000	No
			Si	0.000000	0.000000	No
			Ca	0.000000	0.000000	No
Cr 267.716 {126}	☒	15	Mn	0.000402	0.000000	No
			V	0.000080	0.000000	No
			Mo	0.000018	0.000000	No
			Fe	-0.000009	0.000000	No
			Cd	-0.000050	0.000000	No
			Al	0.000001	0.000000	No
			Ca	-0.000002	0.000000	No
			Mg	0.000000	0.000000	No
			Ti	0.000000	0.000000	No
			Sn	0.000000	0.000000	No
			Ba	-0.000005	0.000000	No
			Cu	0.000100	0.000000	No
			Sr	0.000000	0.000000	No
			W	0.004000	0.000000	No
			Zr	0.000280	0.000000	No
Cu 324.754 {104}2	☒	22	Cr	0.000016	0.000000	No
			V	-0.000283	0.000000	No
			Mo	0.000406	0.000000	No

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
			Ti	-0.000100	0.000000	No
			Fe	-0.000075	0.000000	No
			Al	0.000002	0.000000	No
			Sn	-0.000097	0.000000	No
			Zn	-0.000004	0.000000	No
			Co	-0.000317	0.000000	No
			Zr	0.000000	0.000000	No
			Si	0.000009	0.000000	No
			Mn	-0.000080	0.000000	No
			Se	0.000050	0.000000	No
			Ba	0.000100	0.000000	No
			Ag	-0.000077	0.000000	No
			Pb	0.000060	0.000000	No
			Sb	0.000000	0.000000	No
			Mg	0.000002	0.000000	No
			Ca	-0.000001	0.000000	No
			Bi	0.000000	0.000000	No
			W	0.000000	0.000000	No
Mn 257.610 {131}	☒	8	K	0.000000	0.000000	No
			Fe	-0.000076	0.000000	No
			Si	0.000050	0.000000	No
			Ba	0.000100	0.000000	No
			As	0.000001	0.000000	No
			Ca	0.000000	0.000000	No
			Mg	0.000000	0.000000	No
			Al	-0.000001	0.000000	No
			Cr	-0.000100	0.000000	No
Ni 231.604 {446}	☒	19	Fe	0.000017	0.000000	No
			Zn	0.000079	0.000000	No
			Be	0.000213	0.000000	No
			Co	0.000080	0.000000	No
			Tl	0.000209	0.000000	No
			Mg	0.000001	0.000000	No
			Mo	0.000485	0.000000	No
			V	0.000011	0.000000	No
			Cu	0.000050	0.000000	No
			Se	0.000100	0.000000	No
			Al	0.000003	0.000000	No
			Cr	0.000006	0.000000	No
			Si	-0.000030	0.000000	No
			Sn	0.000079	0.000000	No
			Ba	0.000000	0.000000	No
			Ca	-0.000002	0.000000	No
			Ti	-0.000040	0.000000	No
			Mn	-0.000080	0.000000	No
Ag 328.068 {103}	☒	14	W	0.000000	0.000000	No
			Mn	0.000211	0.000000	No
			Mo	-0.000098	0.000000	No
			Ti	-0.000830	0.000000	No
			Fe	-0.000434	0.000000	No
			V	-0.000040	0.000000	No
			Zn	-0.000080	0.000000	No
			Ca	0.000000	0.000000	No
			Al	-0.000001	0.000000	No
			Sr	-0.000024	0.000000	No
			Mg	0.000001	0.000000	No
			Zr	0.005800	0.000000	No

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
			Si	-0.000021	0.000000	No
			Ba	0.000006	0.000000	No
			K	0.000000	0.000000	No
V 292.402 {115}	☒	7	Ti	0.000630	0.000000	No
			Mo	-0.013100	0.000000	No
			Fe	0.000011	0.000000	No
			Sr	-0.000100	0.000000	No
			Cr	-0.002600	0.000000	No
			Mn	-0.000200	0.000000	No
			Zr	0.000170	0.000000	No
Zn 206.200 {464}	☒	20	Cr	-0.001125	0.000000	No
			Mo	0.000260	0.000000	No
			Fe	-0.000008	0.000000	No
			Si	0.000065	0.000000	No
			Mn	0.000350	0.000000	No
			Ba	-0.000060	0.000000	No
			Na	0.000003	0.000000	No
			Ca	0.000000	0.000000	No
			Sr	0.000000	0.000000	No
			Sn	0.000255	0.000000	No
			Cu	-0.000774	0.000000	No
			As	0.000500	0.000000	No
			Be	0.000364	0.000000	No
			Pd	0.000280	0.000000	No
			Ti	-0.000080	0.000000	No
			Al	0.000005	0.000000	No
			Zr	0.000000	0.000000	No
			Bi	-0.003364	0.000000	No
			W	0.060000	0.000000	No
			K	0.000000	0.000000	No
As 189.042 {478}	☒	23	Al	0.000003	0.000000	No
			Fe	-0.000008	0.000000	No
			Ca	0.000000	0.000000	No
			Mn	0.000090	0.000000	No
			Mo	0.000040	0.000000	No
			Cr	-0.005750	0.000000	No
			V	0.000095	0.000000	No
			Co	-0.001500	0.000000	No
			Ba	-0.000067	0.000000	No
			Sn	-0.000037	0.000000	No
			Cd	-0.000228	0.000000	No
			Tl	0.000030	0.000000	No
			Be	-0.000007	0.000000	No
			Mg	-0.000000	0.000000	No
			Si	-0.000195	0.000000	No
			Zn	0.000115	0.000000	No
			Sr	0.000100	0.000000	No
			Pd	0.031510	0.000000	No
			Zr	-0.000411	0.000000	No
			Ti	-0.000070	0.000000	No
			W	0.000000	0.000000	No
			S	-0.000040	0.000000	No
			K	0.000000	0.000000	No
Tl 190.856 {477}	☒	29	Cr	0.000421	0.000000	No
			Mo	-0.005200	0.000000	No
			Al	-0.000002	0.000000	No
			Fe	-0.000123	0.000000	No

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
			V	-0.028200	0.000000	No
			Mn	0.000800	0.000000	No
			Ca	-0.000006	0.000000	No
			Ti	-0.001400	0.000000	No
			Mg	-0.000002	0.000000	No
			Co	0.003472	0.000000	No
			Sr	-0.000400	0.000000	No
			B	-0.000025	0.000000	No
			Ba	0.000000	0.000000	No
			Zn	0.000100	0.000000	No
			As	-0.000020	0.000000	No
			W	0.000000	0.000000	No
			Ni	0.000090	0.000000	No
			Cu	-0.000125	0.000000	No
			Zr	0.000000	0.000000	No
			Pd	0.000185	0.000000	No
			Pb	-0.000600	0.000000	No
			S	0.000010	0.000000	No
			Ag	0.000250	0.000000	No
			Be	0.000000	0.000000	No
			Sn	-0.000023	0.000000	No
			K	0.000000	0.000000	No
			Cd	-0.000240	0.000000	No
			Si	0.000293	0.000000	No
Pb 220.353 (453)	☒	23	Na	-0.000001	0.000000	No
			Al	-0.000071	0.000000	No
			Fe	0.000035	0.000000	No
			Ca	0.000003	0.000000	No
			Mn	0.000033	0.000000	No
			Zn	-0.000036	0.000000	No
			Mo	-0.002050	0.000000	No
			Cu	-0.000031	0.000000	No
			V	0.000068	0.000000	No
			Co	0.000073	0.000000	No
			Ti	-0.000200	0.000000	No
			Si	-0.000042	0.000000	No
			Ba	-0.000010	0.000000	No
			Sb	0.000150	0.000000	No
			K	0.000000	0.000000	No
			Sr	0.000140	0.000000	No
			W	-0.002000	0.000000	No
			Mg	0.000002	0.000000	No
			Cd	-0.000018	0.000000	No
			Pd	0.000560	0.000000	No
			Zr	-0.001000	0.000000	No
			Ni	0.000050	0.000000	No
			S	-0.000010	0.000000	No
			Bi	0.000000	0.000000	No
Se 196.090 (472)	☒	22	Al	-0.000024	0.000000	No
			Ca	0.000002	0.000000	No
			Mn	0.000223	0.000000	No
			Mo	-0.000119	0.000000	No
			Fe	-0.000175	0.000000	No
			Co	-0.000330	0.000000	No
			V	-0.000200	0.000000	No
			Sr	-0.000258	0.000000	No
			Cu	-0.000007	0.000000	No

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
			W	0.080000	0.000000	No
			Si	0.000011	0.000000	No
			Ti	0.000204	0.000000	No
			Be	-0.000143	0.000000	No
			Zn	0.000100	0.000000	No
			B	0.000025	0.000000	No
			Pd	0.000700	0.000000	No
			Ti	-0.000017	0.000000	No
			Cd	0.000090	0.000000	No
			Zr	-0.004300	0.000000	No
			Ba	0.000040	0.000000	No
			Mg	-0.000002	0.000000	No
			S	-0.000010	0.000000	No
Sb 206.833 {463}	☒	14	Fe	-0.000010	0.000000	No
			Al	0.000006	0.000000	No
			Ca	-0.000001	0.000000	No
			Ni	-0.000856	0.000000	No
			Cr	0.006200	0.000000	No
			V	-0.004530	0.000000	No
			Zn	0.000188	0.000000	No
			Mo	0.000250	0.000000	No
			Ti	0.000100	0.000000	No
			Sn	-0.015500	0.000000	No
			W	0.000000	0.000000	No
			Mg	0.000003	0.000000	No
			Zr	-0.000300	0.000000	No
			Sr	0.000031	0.000000	No
Al 396.152 { 85}	☒	4	Si	0.000350	0.000000	No
			Ca	-0.000265	0.000000	No
			Mo	0.039000	0.000000	No
			Zr	-0.008158	0.000000	No
Ca 317.933 {106}	☒	18	Fe	0.000120	0.000000	No
			Ti	0.000000	0.000000	No
			W	0.003960	0.000000	No
			Ti	0.004955	0.000000	No
			Be	0.001840	0.000000	No
			Ba	-0.001500	0.000000	No
			Cu	0.004200	0.000000	No
			Cd	0.003700	0.000000	No
			Ni	0.001859	0.000000	No
			Pd	0.004700	0.000000	No
			Mn	0.000000	0.000000	No
			B	-0.000210	0.000000	No
			Se	0.005000	0.000000	No
			Co	-0.000920	0.000000	No
			Cr	0.004000	0.000000	No
			Al	0.000026	0.000000	No
			As	0.010000	0.000000	No
			Pb	0.002000	0.000000	No
Fe 259.940 {130}	☒	13	Co	0.000200	0.000000	No
			Si	-0.001181	0.000000	No
			Ti	-0.002562	0.000000	No
			Se	0.000000	0.000000	No
			Cr	-0.000360	0.000000	No
			Mn	-0.002000	0.000000	No
			V	-0.000064	0.000000	No
			Cu	0.000085	0.000000	No

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
			K	-0.000200	0.000000	No
			Zn	0.000080	0.000000	No
			Ti	-0.000631	0.000000	No
			Ca	0.000020	0.000000	No
			Ba	0.001000	0.000000	No
Mg 279.079 {121}	☒	3	Mo	-0.016250	0.000000	No
			W	0.000000	0.000000	No
			Mn	-0.005360	0.000000	No
K 766.490 { 44}	☒	12	Fe	-0.000715	0.000000	No
			Al	0.000032	0.000000	No
			Ca	-0.000012	0.000000	No
			Mn	0.001430	0.000000	No
			Si	-0.003000	0.000000	No
			V	-0.002360	0.000000	No
			Pd	0.004000	0.000000	No
			Sn	-0.004700	0.000000	No
			Ba	-0.002700	0.000000	No
			Mo	-0.000850	0.000000	No
			Cu	-0.010000	0.000000	No
			Ni	-0.000500	0.000000	No
Na 589.592 { 57}	☒	6	K	-0.000560	0.000000	No
			Ba	0.000900	0.000000	No
			Ca	-0.000034	0.000000	No
			Al	0.000040	0.000000	No
			V	0.000000	0.000000	No
			Cr	0.000000	0.000000	No
B 208.959 {462}	☒	1	Mo	0.027950	0.000000	No
Mo 202.030 {467}	☒	6	Co	0.000000	0.000000	No
			Al	0.000000	0.000000	No
			Fe	-0.000010	0.000000	No
			Mg	-0.000001	0.000000	No
			Ca	0.000003	0.000000	No
			W	0.000576	0.000000	No
Pd 340.458 { 99}	☒	10	Ti	-0.000684	0.000000	No
			V	-0.000048	0.000000	No
			Sn	-0.000006	0.000000	No
			Fe	-0.000060	0.000000	No
			Mo	-0.000320	0.000000	No
			Co	-0.005883	0.000000	No
			Ca	-0.000021	0.000000	No
			S	-0.000017	0.000000	No
			Si	-0.000040	0.000000	No
			Zr	-0.157000	0.000000	No
Si 212.412 {459}	☒	19	Sr	0.000366	0.000000	No
			Ni	0.000106	0.000000	No
			Mo	0.027230	0.000000	No
			V	-0.000190	0.000000	No
			Ti	0.043950	0.000000	No
			Al	0.000049	0.000000	No
			Cd	0.008630	0.000000	No
			Ba	0.000000	0.000000	No
			Fe	0.000129	0.000000	No
			Sn	0.007000	0.000000	No
			Zn	0.000385	0.000000	No
			As	0.002500	0.000000	No
			Mg	-0.000185	0.000000	No
			W	-0.007198	0.000000	No

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
			Ca	0.000078	0.000000	No
			Cr	0.001600	0.000000	No
			Mn	0.001000	0.000000	No
			Zr	0.000540	0.000000	No
			B	0.001900	0.000000	No
Sn 189.989 {478}	☒	6	Ti	-0.002020	0.000000	No
			Mo	0.000011	0.000000	No
			Fe	0.000018	0.000000	No
			Mn	0.000001	0.000000	No
			Si	0.000131	0.000000	No
			Al	-0.000004	0.000000	No
Sr 407.771 { 83}	☒	2	Fe	0.000000	0.000000	No
			Ca	0.000047	0.000000	No
Ti 334.904 {101}	☒	4	Cr	0.000204	0.000000	No
			Mo	0.000870	0.000000	No
			Si	0.000035	0.000000	No
			Ca	0.000005	0.000000	No
Y 360.073 { 94}* Y 371.030 { 91}* Y 224.306 {451}* In 230.606 {446}* W 207.911 {462}	☒ ☒ ☒ ☒ ☒	None None None None 27				
			Al	0.000005	0.000000	No
			Si	-0.000117	0.000000	No
			Ca	-0.000004	0.000000	No
			Fe	-0.000039	0.000000	No
			As	-0.000220	0.000000	No
			Mg	-0.000005	0.000000	No
			Mn	-0.000070	0.000000	No
			Mo	0.000710	0.000000	No
			Ti	0.000000	0.000000	No
			Sr	0.000000	0.000000	No
			V	0.001000	0.000000	No
			Cd	-0.000650	0.000000	No
			Cr	-0.000001	0.000000	No
			Zn	0.009921	0.000000	No
			Pd	0.000000	0.000000	No
			Sn	-0.000500	0.000000	No
			Zr	-0.001000	0.000000	No
			B	0.000000	0.000000	No
			Sb	0.000000	0.000000	No
			Co	-0.002830	0.000000	No
			Ni	0.000000	0.000000	No
			Be	-0.001000	0.000000	No
			Se	0.000000	0.000000	No
			Cu	-0.002860	0.000000	No
			Ba	0.000000	0.000000	No
			Tl	0.000000	0.000000	No
			Pb	0.000000	0.000000	No
Zr 339.198 { 99}	☒	10	Mo	0.000250	0.000000	No
			Ti	0.000000	0.000000	No
			Fe	-0.000068	0.000000	No
			Si	0.000125	0.000000	No
			S	0.000039	0.000000	No
			Pd	0.000000	0.000000	No
			Be	-0.000500	0.000000	No
			Bi	0.000000	0.000000	No
			Ba	0.000700	0.000000	No

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
S 182.034 {485}	☒	6	Ag	0.000000	0.000000	No
			Ca	0.000065	0.000000	No
			Mo	0.000000	0.000000	No
			Al	-0.000129	0.000000	No
			Fe	-0.000043	0.000000	No
			Mn	0.003160	0.000000	No
Bi 223.061 {451}	☒	4	Mg	0.000004	0.000000	No
			Fe	0.000035	0.000000	No
			Ti	-0.002890	0.000000	No
			V	-0.000680	0.000000	No
			Cr	0.001100	0.000000	No
Li 670.784 {50}	☒	1	Mg	0.000006	0.000000	No

Element, Wavelength and Order	Date of Fit	Date of Cal.	Type of Fit	Weighting	A0	A1	A2	n (Exponent)
Ba 455.403 { 74}	6/2/2014 11:50:53	6/2/2014 11:50:53	Linear	1/Conc	0.000714	1.343333	0.000000	1.000000
Be 313.042 {108}	6/2/2014 11:50:53	6/2/2014 11:50:53	Linear	1/Conc	0.000191	3.133650	0.000000	1.000000
Cd 228.802 {448}	6/2/2014 11:50:53	6/2/2014 11:50:53	Linear	1/Conc	0.000906	1.076469	0.000000	1.000000
Co 228.616 {448}	6/2/2014 11:50:53	6/2/2014 11:50:53	Linear	1/Conc	-0.000316	0.419905	0.000000	1.000000
Cr 267.716 {126}	6/2/2014 11:50:53	6/2/2014 11:50:53	Linear	1/Conc	0.000032	0.071179	0.000000	1.000000
Cu 324.754 {104}2	6/2/2014 11:50:53	6/2/2014 11:50:53	Linear	1/Conc	0.002966	0.232877	0.000000	1.000000
Mn 257.610 {131}	6/2/2014 11:50:53	6/2/2014 11:50:53	Linear	1/Conc	0.000080	0.387945	0.000000	1.000000
Ni 231.604 {446}	6/2/2014 11:50:53	6/2/2014 11:50:53	Linear	1/Conc	0.001605	0.327949	0.000000	1.000000
Ag 328.068 {103}	6/2/2014 11:50:53	6/2/2014 11:50:53	Linear	1/Conc	-0.000011	0.113908	0.000000	1.000000
V 292.402 {115}	6/2/2014 11:50:53	6/2/2014 11:50:53	Linear	1/Conc	-0.000109	0.121756	0.000000	1.000000
Zn 206.200 {464}	6/2/2014 11:50:53	6/2/2014 11:50:53	Linear	1/Conc	0.000405	0.815678	0.000000	1.000000
As 189.042 {478}	6/2/2014 11:50:53	6/2/2014 11:50:53	Linear	1/Conc	-0.000608	0.160340	0.000000	1.000000
Tl 190.856 {477}	6/2/2014 11:50:53	6/2/2014 11:50:53	Linear	1/Conc	-0.000417	0.045376	0.000000	1.000000
Pb 220.353 {453}	6/2/2014 11:50:53	6/2/2014 11:50:53	Linear	1/Conc	-0.000126	0.138163	0.000000	1.000000
Se 196.090 {472}	6/2/2014 11:50:53	6/2/2014 11:50:53	Linear	1/Conc	0.000944	0.101973	0.000000	1.000000
Sb 206.833 {463}	6/2/2014 11:50:53	6/2/2014 11:50:53	Linear	1/Conc	0.000863	0.223969	0.000000	1.000000
Al 396.152 { 85}	6/2/2014 11:50:53	6/2/2014 11:50:53	Linear	1/Conc	-0.000052	0.026909	0.000000	1.000000
Ca 317.933 {106}	6/2/2014 11:50:53	6/2/2014 11:50:53	Linear	1/Conc	0.006461	0.061665	0.000000	1.000000
Fe 259.940 {130}	6/2/2014 11:50:53	6/2/2014 11:50:53	Linear	1/Conc	0.000215	0.042691	0.000000	1.000000
Mg 279.079 {121}	6/2/2014 11:50:53	6/2/2014 11:50:53	Linear	1/Conc	-0.000090	0.005487	0.000000	1.000000
K 766.490 { 44}	6/2/2014 11:50:53	6/2/2014 11:50:53	Linear	1/Conc	-0.001191	0.015508	0.000000	1.000000
Na 589.592 { 57}	6/2/2014 11:50:53	6/2/2014 11:50:53	Linear	1/Conc	-0.000282	0.062405	0.000000	1.000000
B 208.959 {462}	6/2/2014 11:50:53	6/2/2014 11:50:53	Linear	1/Conc	0.000591	0.211101	0.000000	1.000000
Mo 202.030 {467}	6/2/2014 11:50:53	6/2/2014 11:50:53	Linear	1/Conc	0.001527	0.970726	0.000000	1.000000
Pd 340.458 { 99}	6/2/2014 11:50:53	6/2/2014 11:50:53	Linear	1/Conc	-0.000055	0.048087	0.000000	1.000000
Si 212.412 {459}	6/2/2014 11:50:53	6/2/2014 11:50:53	Linear	1/Conc	0.007378	0.277767	0.000000	1.000000
Sn 189.989 {478}	6/2/2014 11:50:53	6/2/2014 11:50:53	Linear	1/Conc	0.000336	0.176718	0.000000	1.000000
Sr 407.771 { 83}	6/2/2014 11:50:53	6/2/2014 11:50:53	Linear	1/Conc	-0.000571	2.496330	0.000000	1.000000
Ti 334.904 {101}	6/2/2014 11:50:53	6/2/2014 11:50:53	Linear	1/Conc	-0.000161	0.124683	0.000000	1.000000
Y 360.073 { 94}*	10/25/2013 12:00:44	12/23/2009 10:44:16	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
Y 371.030 { 91}*	9/12/2013 9:42:19	12/23/2009 10:44:16	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
Y 224.306 {451}*	4/16/2014 11:15:37	12/23/2009 10:44:16	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
In 230.606 {446}*	1/2/2014 9:54:11	12/23/2009 10:44:16	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
W 207.911 {462}	6/2/2014 11:50:53	6/2/2014 11:50:53	Linear	1/Conc	0.009745	0.433998	0.000000	1.000000
Zr 339.198 { 99}	6/2/2014 11:50:53	6/2/2014 11:50:53	Linear	1/Conc	0.000084	0.260007	0.000000	1.000000
S 182.034 {485}	6/2/2014 11:50:53	6/2/2014 11:50:53	Linear	1/Conc	-0.002854	0.056413	0.000000	1.000000
Bi 223.061 {451}	6/2/2014 11:50:53	6/2/2014 11:50:53	Linear	1/Conc	-0.002343	0.315817	0.000000	1.000000
Li 670.784 { 50}	6/2/2014 11:50:53	6/2/2014 11:50:53	Linear	1/Conc	0.000581	0.495127	0.000000	1.000000

Element, Wavelength and Order	Correlation	Std Error of Est	Predicted MDL	Predicted MQL	Status	Reslope		QC Norm	
						Slope	Y-int	Slope factor	Offset
Ba 455.403 { 74 }	1.000000	0.000000	0.000186	0.000619	OK	1.000000	0.000000	1	0
Be 313.042 {108}	1.000000	0.000000	0.000038	0.000126	OK	1.000000	0.000000	1	0
Cd 228.802 {448}	1.000000	0.000000	0.000175	0.000583	OK	1.000000	0.000000	1	0
Co 228.616 {448}	1.000000	0.000000	0.000264	0.000881	OK	1.000000	0.000000	1	0
Cr 267.716 {126}	1.000000	0.000000	0.000320	0.001067	OK	1.000000	0.000000	1	0
Cu 324.754 {104}2	1.000000	0.000000	0.000234	0.000780	OK	1.000000	0.000000	1	0
Mn 257.610 {131}	1.000000	0.000000	0.000050	0.000167	OK	1.000000	0.000000	1	0
Ni 231.604 {446}	1.000000	0.000000	0.000309	0.001032	OK	1.000000	0.000000	1	0
Ag 328.068 {103}	1.000000	0.000000	0.000395	0.001318	OK	1.000000	0.000000	1	0
V 292.402 {115}	1.000000	0.000000	0.000248	0.000826	OK	1.000000	0.000000	1	0
Zn 206.200 {464}	1.000000	0.000000	0.000202	0.000673	OK	1.000000	0.000000	1	0
As 189.042 {478}	1.000000	0.000000	0.000938	0.003126	OK	1.000000	0.000000	1	0
Tl 190.856 {477}	1.000000	0.000000	0.001299	0.004331	OK	1.000000	0.000000	1	0
Pb 220.353 {453}	1.000000	0.000000	0.001061	0.003537	OK	1.000000	0.000000	1	0
Se 196.090 {472}	1.000000	0.000000	0.001806	0.006021	OK	1.000000	0.000000	1	0
Sb 206.833 {463}	1.000000	0.000000	0.001038	0.003460	OK	1.000000	0.000000	1	0
Al 396.152 { 85 }	1.000000	0.000000	0.007466	0.024886	OK	1.000000	0.000000	1	0
Ca 317.933 {106}	1.000000	0.000000	0.002147	0.007155	OK	1.000000	0.000000	1	0
Fe 259.940 {130}	1.000000	0.000000	0.001601	0.005336	OK	1.000000	0.000000	1	0
Mg 279.079 {121}	1.000000	0.000000	0.016244	0.054148	OK	1.000000	0.000000	1	0
K 766.490 { 44 }	1.000000	0.000000	0.026238	0.087460	OK	1.000000	0.000000	1	0
Na 589.592 { 57 }	1.000000	0.000000	0.005960	0.019867	OK	1.000000	0.000000	1	0
B 208.959 {462}	1.000000	0.000000	0.000706	0.002354	OK	1.000000	0.000000	1	0
Mo 202.030 {467}	1.000000	0.000000	0.000209	0.000696	OK	1.000000	0.000000	1	0
Pd 340.458 { 99 }	1.000000	0.000000	0.000866	0.002887	OK	1.000000	0.000000	1	0
Si 212.412 {459}	1.000000	0.000000	0.000820	0.002734	OK	1.000000	0.000000	1	0
Sn 189.989 {478}	1.000000	0.000000	0.000744	0.002479	OK	1.000000	0.000000	1	0
Sr 407.771 { 83 }	1.000000	0.000000	0.000071	0.000237	OK	1.000000	0.000000	1	0
Ti 334.904 {101}	1.000000	0.000000	0.000339	0.001131	OK	1.000000	0.000000	1	0
Y 360.073 { 94 }*	0.000000	0.000000	-1.000000	-1.000000	Warnin	1.000000	0.000000	1	0
Y 371.030 { 91 }*	0.000000	0.000000	-1.000000	-1.000000	Warnin	1.000000	0.000000	1	0
Y 224.306 {451 }*	0.000000	0.000000	-1.000000	-1.000000	Warnin	1.000000	0.000000	1	0
In 230.606 {446 }*	0.000000	0.000000	-1.000000	-1.000000	Warnin	1.000000	0.000000	1	0
W 207.911 {462}	1.000000	0.000000	0.000939	0.003129	OK	1.000000	0.000000	1	0
Zr 339.198 { 99 }	1.000000	0.000000	0.000153	0.000510	OK	1.000000	0.000000	1	0
S 182.034 {485}	1.000000	0.000000	0.002900	0.009665	OK	1.000000	0.000000	1	0
Bi 223.061 {451}	1.000000	0.000000	0.001000	0.003335	OK	1.000000	0.000000	1	0
Li 670.784 { 50 }	1.000000	0.000000	0.000777	0.002591	OK	1.000000	0.000000	1	0

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Sample Name: STDA Acquired: 6/3/2014 18:31:43 Type: Cal
Method: Accutest1(v112) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0006	-0.0001	.0007	-0.0005	.0000	.0054	.0001	.0016	-0.0001
Stddev	.0000	.0001	.0002	.0000	.000	.0000	.0000	.0000	.0000
%RSD	.0814	53.78	21.22	3.545	131.2	.6186	1.189	1.045	70.75
#1	.0006	-0.0001	.0008	-0.0005	.0000	.0053	.0001	.0016	-0.0001
#2	.0006	-0.0001	.0006	-0.0005	.0000	.0054	.0001	.0016	.0000
Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-0.0001	.0002	-0.0016	-0.0004	-0.0002	.0011	.0005	.0000	.0056
Stddev	.0000	.0002	.0001	.0000	.0000	.0000	.0000	.000	.0001
%RSD	14.25	75.85	7.129	6.146	3.908	1.738	1.329	18.45	.9053
#1	-0.0001	.0001	-.0017	-.0004	-.0002	.0011	.0005	.0000	.0057
#2	-0.0001	.0003	-.0015	-.0004	-.0002	.0011	.0005	.0000	.0056
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0002	-0.0001	.0003	.0009	.0015	.0007	-0.0001	.0077	.0003
Stddev	.0000	.0001	.0002	.0001	.0001	.0000	.0000	.0001	.0001
%RSD	16.98	96.32	65.95	6.740	5.840	2.801	4.933	.7264	27.88
#1	.0002	.0000	.0004	.0008	.0014	.0008	-.0001	.0078	.0004
#2	.0001	-.0002	.0002	.0009	.0015	.0007	-.0001	.0077	.0002
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S		
Avg	-0.0004	-0.0002	.0028	-0.0001	-0.0032	-0.0009	.0012		
Stddev	.0000	.0000	.0000	.0000	.0001	.0000	.0002		
%RSD	7.984	7.772	1.156	10.22	2.520	2.325	12.84		
#1	-0.0004	-.0002	.0027	-.0001	-.0032	-.0009	.0013		
#2	-0.0004	-.0002	.0028	-.0001	-.0031	-.0010	.0011		

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Sample Name: STDA Acquired: 6/3/2014 18:31:43 Type: Cal
Method: Accutest1(v112) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	161450.	31100.	2161.3	5830.8
Stddev	128.	101.	.7	.8
%RSD	.07913	.32563	.03344	.01433
#1	161360.	31171.	2160.8	5831.4
#2	161540.	31028.	2161.8	5830.2

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Sample Name: STDB Acquired: 6/3/2014 18:37:46 Type: Cal
Method: Accutest1(v112) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5.622	13.13	4.443	1.849	.3002	1.002	1.607	1.401	.0586
Stddev	.008	.06	.066	.021	.0004	.002	.005	.015	.0001
%RSD	.1455	.4808	1.478	1.159	.1417	.2284	.3427	1.078	.1490
#1	5.616	13.18	4.490	1.864	.2998	1.004	1.603	1.412	.0585
#2	5.628	13.09	4.397	1.834	.3005	1.000	1.611	1.391	.0586
Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.5133	3.532	.6845	.1860	.5998	.2637	1.003	2.256	5.236
Stddev	.0004	.042	.0085	.0024	.0077	.0041	.016	.004	.026
%RSD	.0710	1.196	1.246	1.295	1.281	1.556	1.582	.2014	.4914
#1	.5130	3.562	.6906	.1877	.6052	.2666	1.014	2.259	5.254
#2	.5136	3.502	.6785	.1843	.5944	.2608	.9917	2.253	5.218
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3.660	.5198	1.287	5.313	1.111	4.057	.1958	3.159	.7336
Stddev	.013	.0029	.003	.004	.017	.058	.0000	.047	.0102
%RSD	.3425	.5539	.1932	.0682	1.487	1.417	.0067	1.498	1.388
#1	3.669	.5218	1.288	5.316	1.123	4.097	.1958	3.192	.7408
#2	3.651	.5177	1.285	5.311	1.099	4.016	.1958	3.126	.7264
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S		
Avg	10.61	.5181	1.844	1.071	.2534	1.326	2.259		
Stddev	.05	.0002	.031	.001	.0034	.020	.001		
%RSD	.4816	.0480	1.664	.0579	1.344	1.535	.0532		
#1	10.65	.5179	1.866	1.070	.2558	1.341	2.258		
#2	10.58	.5183	1.822	1.071	.2509	1.312	2.260		

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[Zoom In](#)
[Zoom Out](#)

Sample Name: STDB Acquired: 6/3/2014 18:37:46 Type: Cal
Method: Accutest1(v112) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	151990.	29737.	2025.3	5406.0
Stddev	223.	86.	27.3	59.6
%RSD	.14662	.29001	1.3501	1.1025
#1	152150.	29676.	2005.9	5363.9
#2	151830.	29798.	2044.6	5448.2

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Sample Name: ccvconf Acquired: 6/3/2014 18:43:52 Type: QC
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.023	2.069	2.048	2.058	2.038	1.971	2.088	2.078	2.446
Stddev	.007	.017	.011	.003	.011	.018	.011	.005	.0026
%RSD	.3321	.8231	.5522	.1451	.5317	.9113	.5395	.2312	1.047
#1	2.027	2.081	2.056	2.061	2.046	1.984	2.096	2.081	2.464
#2	2.018	2.057	2.040	2.056	2.030	1.959	2.080	2.074	2.428

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.013	2.083	2.032	2.104	2.072	2.015	2.036	39.43	40.15
Stddev	.015	.005	.010	.007	.004	.017	.016	.23	.35
%RSD	.7190	.2315	.4711	.3192	.1888	.8314	.8056	.5840	.8684
#1	2.023	2.086	2.039	2.109	2.075	2.027	2.047	39.60	40.40
#2	2.002	2.079	2.026	2.099	2.069	2.003	2.024	39.27	39.91

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.33	39.55	39.38	39.72	2.032	2.064	1.961	5.016	2.074
Stddev	.32	.38	.24	.25	.006	.013	.015	.028	.011
%RSD	.7850	.9532	.5991	.6176	.2914	.6136	.7738	.5653	.5218
#1	40.55	39.82	39.55	39.89	2.036	2.073	1.972	5.036	2.081
#2	40.10	39.29	39.22	39.55	2.028	2.055	1.950	4.996	2.066

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

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Sample Name: ccvconf Acquired: 6/3/2014 18:43:52 Type: QC
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.045	2.014	2.023	1.954	1.959	2.013	1.982
Stddev	.009	.014	.010	.013	.010	.015	.011
%RSD	.4585	.7133	.4965	.6554	.5087	.7558	.5641
#1	2.052	2.025	2.030	1.963	1.966	2.024	1.990
#2	2.039	2.004	2.016	1.945	1.952	2.002	1.974

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	156820.	30110.	2062.9	5513.2
Stddev	939.	274.	11.7	17.2
%RSD	.59851	.90860	.56584	.31238
#1	156160.	29916.	2054.7	5501.0
#2	157490.	30303.	2071.2	5525.4

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Sample Name: ccbconf Acquired: 6/3/2014 18:49:42 Type: QC
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0001	.0001	-.0001	.0000	-.0002	.0001	.0006	.0003
Stddev	.0000	.0000	.0000	.0002	.0001	.0005	.0001	.0001	.0001
%RSD	30.39	10.33	56.02	144.8	404.4	294.2	111.3	15.33	36.34
#1	.0001	.0001	.0000	-.0002	.0000	.0002	.0001	.0007	.0004
#2	.0002	.0001	.0001	.0000	.0001	-.0005	.0000	.0005	.0002

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	-.0004	-.0002	.0000	.0004	.0010	.0009	.0031	.0006
Stddev	.0001	.0000	.0004	.001	.0007	.0020	.0008	.0049	.0010
%RSD	51.38	1.308	270.1	40760.	149.8	190.1	87.60	160.6	167.3
#1	.0003	-.0004	.0001	.0010	.0000	-.0004	.0003	.0065	.0013
#2	.0001	-.0004	-.0005	-.0010	.0009	.0024	.0015	-.0004	-.0001

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0020	.0101	.0238	.0068	.0014	.0002	-.0001	.0005	.0002
Stddev	.0019	.0070	.0022	.0019	.0003	.0002	.0000	.0001	.0000
%RSD	91.98	69.52	9.124	27.72	23.95	98.61	47.42	27.70	.5674
#1	.0033	.0051	.0254	.0055	.0017	.0003	-.0001	.0004	.0002
#2	.0007	.0150	.0223	.0082	.0012	.0000	-.0001	.0006	.0002

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

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Sample Name: ccbconf Acquired: 6/3/2014 18:49:42 Type: QC
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0007	.0046	.0002	-.0004	-.0002	.0006
Stddev	.0000	.0002	.0009	.0001	.0003	.0007	.0004
%RSD	3.209	23.98	19.17	60.21	85.63	327.8	62.96
#1	.0002	.0008	.0052	.0003	-.0006	-.0007	.0008
#2	.0002	.0005	.0040	.0001	-.0001	.0003	.0003

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	165670.	30689.	2129.5	5755.1
Stddev	4974.	115.	9.3	20.8
%RSD	3.0026	.37367	.43838	.36224
#1	162150.	30971.	2122.9	5740.4
#2	169190.	30807.	2136.1	5769.9

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Sample Name: icv Acquired: 6/3/2014 18:56:45 Type: QC
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.025	2.068	2.052	2.033	2.075	1.985	W 2.129	2.080
Stddev	.004	.003	.005	.005	.008	.009	.006	.006
%RSD	.2091	.1462	.2568	.2520	.3871	.4662	.2871	.2753
#1	2.022	2.069	2.058	2.038	2.082	1.985	2.135	2.086
#2	2.030	2.071	2.052	2.028	2.066	1.994	2.123	2.076
#3	2.024	2.065	2.047	2.032	2.078	1.976	2.129	2.077

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Warn Chk Pass
Value 2.000
Range 5.000%

Elem	Ag3280	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.529	2.017	2.088	2.067	2.081	2.047	2.019	2.024
Stddev	.0005	.005	.008	.007	.004	.008	.008	.006
%RSD	.1982	.2744	.3810	.3595	.2146	.3731	.3994	.3032
#1	.2535	2.022	2.097	2.075	2.085	2.056	2.029	2.028
#2	.2527	2.011	2.083	2.065	2.076	2.042	2.014	2.026
#3	.2526	2.018	2.083	2.061	2.082	2.043	2.015	2.017

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value 2.000
Range 5.000%

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.50	40.95	41.84	41.75	41.39	40.99	2.037	1.990
Stddev	.09	.05	.04	.02	.13	.12	.007	.006
%RSD	.2261	.1219	.0963	.0449	.3046	.3011	.3420	.3118
#1	40.51	41.01	41.83	41.76	41.44	40.94	2.045	1.997
#2	40.59	40.93	41.88	41.75	41.48	41.13	2.033	1.990
#3	40.41	40.92	41.80	41.73	41.24	40.89	2.033	1.984

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value 2.000
Range 5.000%

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Sample Name: icv Acquired: 6/3/2014 18:56:45 Type: QC
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pd3404	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 2.214	5.126	2.047	2.037	2.089	W 2.183	W 2.170	2.001
Stddev	.008	.009	.007	.003	.003	.009	.004	.005
%RSD	.3562	.1851	.3583	.1262	.1542	.4010	.1883	.2320
#1	2.212	5.136	2.055	2.036	2.092	2.191	2.174	2.006
#2	2.223	5.127	2.043	2.040	2.088	2.184	2.172	1.998
#3	2.208	5.117	2.043	2.035	2.086	2.174	2.166	1.998

Check ? Chk Fail Chk Pass Chk Pass Chk Pass Chk Pass Chk Warn Chk Warn Chk Pass
Value 2.000
Range 10.00% 5.000% 5.000%

Elem	Bi2230	Li6707
Units	ppm	ppm
Avg	W 2.151	F 2.304
Stddev	.006	.009
%RSD	.2670	.4129
#1	2.152	2.300
#2	2.155	2.314
#3	2.144	2.296

Check ? Chk Warn Chk Fail
Value 2.000
Range 5.000% 10.00%

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	154460.	29926.	2049.6	5474.5
Stddev	392.	46.	5.0	9.0
%RSD	.25374	.15343	.24472	.16435
#1	154390.	29930.	2046.3	5464.7
#2	154880.	29878.	2047.2	5476.1
#3	154100.	29969.	2055.4	5482.5

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Sample Name: icb Acquired: 6/3/2014 19:05:23 Type: QC
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0001	-.0001	.0000	.0000	.0000	.0000	.0005	.0003
Stddev	.0001	.0000	.0001	.0002	.000	.000	.0000	.0000	.0001
%RSD	35.95	2.953	143.5	3958.	211.0	464.6	157.9	6.209	25.51

#1	.0002	.0001	-.0001	-.0001	.0000	.0001	.0000	.0005	.0004
#2	.0003	.0001	.0000	.0001	-.0001	-.0002	.0000	.0005	.0003

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	-.0002	-.0008	.0007	.0009	.0019	.0009	.0020	-.0006
Stddev	.0000	.0003	.0002	.0012	.0009	.0016	.0005	.0029	.0016
%RSD	10.89	140.5	18.33	172.3	104.9	86.05	59.32	150.9	292.1

#1	.0001	-.0004	-.0007	.0015	.0002	.0030	.0005	-.0001	-.0017
#2	.0001	.0000	-.0009	-.0002	.0015	.0007	.0012	.0040	.0006

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006	.0051	.0258	.0035	.0005	.0001	.0004	.0004	.0001
Stddev	.0005	.0001	.0236	.0002	.0003	.0001	.0003	.0006	.0001
%RSD	88.99	1.688	91.55	6.734	57.37	136.8	86.32	139.4	146.7

#1	.0002	.0052	.0426	.0037	.0003	.0002	.0006	.0000	.0002
#2	.0009	.0051	.0091	.0034	.0008	.0000	.0001	.0009	.0000

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

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Sample Name: icb Acquired: 6/3/2014 19:05:23 Type: QC
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0003	.0029	.0000	.0002	.0005	.0001
Stddev	.0001	.0002	.0011	.000	.0016	.0008	.0005
%RSD	90.40	50.90	36.01	302.7	764.9	159.1	858.7

#1	.0000	.0004	.0037	-.0001	.0014	-.0001	.0004
#2	.0001	.0002	.0022	.0000	-.0009	.0010	-.0003

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	159690.	30770.	2113.7	5716.6
Stddev	219.	120.	14.6	33.8
%RSD	.13722	.38995	.69241	.59106

#1	159840.	30685.	2124.1	5740.5
#2	159530.	30855.	2103.4	5692.7

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Sample Name: iccv Acquired: 6/3/2014 19:11:38 Type: QC
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.995	2.045	2.056	2.059	2.049	1.973	F 2.102	2.085	2.448
Stddev	.017	.012	.019	.014	.011	.012	.011	.014	.0012
%RSD	.8261	.6003	.9062	.6829	.5529	.6058	.5229	.6740	.4733
#1	1.973	2.030	2.028	2.038	2.034	1.956	2.087	2.064	2.431
#2	1.990	2.045	2.062	2.064	2.061	1.983	2.114	2.089	2.454
#3	2.010	2.060	2.064	2.066	2.053	1.976	2.104	2.094	2.453
#4	2.005	2.047	2.069	2.068	2.048	1.976	2.101	2.093	2.455

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Fail Chk Pass Chk Pass
Value 2.000
Range 5.000%

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.023	2.094	2.037	2.091	2.073	2.044	2.038	39.05	39.71
Stddev	.011	.014	.018	.015	.017	.010	.020	.26	.27
%RSD	.5260	.6861	.8823	.7361	.8275	.4998	.9716	.6734	.6811

#1	2.008	2.072	2.010	2.069	2.047	2.030	2.009	38.72	39.38
#2	2.033	2.101	2.047	2.094	2.081	2.041	2.042	39.02	39.72
#3	2.026	2.102	2.046	2.104	2.082	2.052	2.046	39.35	40.04
#4	2.024	2.100	2.047	2.098	2.082	2.051	2.055	39.10	39.68

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

Raw Data MA34154 page 13 of 124

Sample Name: iccv Acquired: 6/3/2014 19:11:38 Type: QC
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	155630.	30345.	2061.0	5507.2
Stddev	605.	121.	15.5	33.8
%RSD	.38842	.39944	.75110	.61425

#1	156500.	30477.	2083.7	5557.3
#2	155140.	30356.	2055.8	5495.3
#3	155320.	30183.	2055.8	5492.8
#4	155570.	30365.	2048.8	5483.2

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Sample Name: iccv Acquired: 6/3/2014 19:11:38 Type: QC
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	39.86	39.19	38.94	39.30	2.036	2.070	1.965	5.015	2.080
Stddev	.27	.27	.28	.26	.019	.017	.013	.045	.016
%RSD	.6769	.7008	.7301	.6720	.9376	.8274	.6796	.8932	.7812
#1	39.52	38.89	38.56	38.95	2.008	2.045	1.947	4.949	2.055
#2	39.86	39.22	38.91	39.24	2.040	2.076	1.978	5.029	2.085
#3	40.18	39.55	39.23	39.56	2.048	2.078	1.971	5.038	2.088
#4	39.88	39.11	39.06	39.43	2.048	2.081	1.964	5.045	2.090

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.027	2.027	2.028	1.961	1.956	2.007	1.953
Stddev	.015	.011	.018	.011	.017	.020	.014
%RSD	.7620	.5250	.8617	.5403	.8735	.9839	.7258

#1	2.007	2.012	2.002	1.947	1.930	1.978	1.935
#2	2.024	2.038	2.033	1.972	1.964	2.014	1.949
#3	2.043	2.030	2.040	1.964	1.965	2.018	1.967
#4	2.033	2.030	2.038	1.963	1.963	2.020	1.962

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

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Sample Name: ccb Acquired: 6/3/2014 19:22:33 Type: QC
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0001	.0001	.0000	.0001	.0008	.0000	.0003	-.0001
Stddev	.0000	.0000	.0000	.0001	.0001	.0012	.0000	.0001	.0003
%RSD	2.605	34.76	33.65	233.0	61.06	161.6	33.92	31.02	300.2

#1	.0002	.0000	.0001	.0000	.0001	-.0001	.0000	.0003	-.0001
#2	.0002	.0001	.0001	.0001	.0001	.0016	.0000	.0004	-.0003

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	-.0002	-.0007	.0005	.0002	.0011	.0008	.0044	-.0022
Stddev	.0000	.0001	.0002	.0001	.0004	.0008	.0003	.0018	.0001
%RSD	119.2	88.55	30.13	19.02	213.1	74.80	36.31	39.71	4.147

#1	.0001	-.0003	-.0006	.0005	-.0001	.0016	.0011	.0032	-.0023
#2	.0000	-.0001	-.0009	.0004	.0005	.0005	.0006	.0057	-.0021

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007	.0044	.0115	.0051	.0003	.0001	.0001	.0005	.0002
Stddev	.0015	.0070	.0138	.0030	.0001	.0000	.0005	.0004	.0004
%RSD	217.7	158.6	119.5	58.41	26.02	3.424	481.7	81.23	192.0

#1	-.0004	.0093	.0018	.0072	.0004	.0001	.0005	.0008	-.0001
#2	.0017	-.0005	.0213	.0030	.0003	.0001	-.0003	.0002	.0005

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

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Sample Name: ccb Acquired: 6/3/2014 19:22:33 Type: QC
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0003	.0019	.0000	-.0011	.0002	.0009
Stddev	.0000	.0002	.0006	.0001	.0015	.0000	.0006
%RSD	85.33	68.49	30.50	134.6	131.2	21.98	62.51
#1	.0001	.0001	.0024	.0001	-.0001	.0001	.0013
#2	.0000	.0004	.0015	.0000	-.0022	.0002	.0005

Check ? High Limit
Low Limit

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	153140.	30978.	2139.5	5776.6
Stddev	9558.	85.	1.7	4.1
%RSD	6.2412	.27475	.08032	.07063
#1	159900.	31038.	2140.7	5779.5
#2	146390.	30918.	2138.3	5773.7

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Sample Name: cri Acquired: 6/3/2014 19:27:38 Type: QC
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1997	.0022	.0031	.0528	.0111	.0099	.0168	.0113
Stddev	.0001	.0000	.0001	.0004	.0000	.0002	.0000	.0002
%RSD	.0558	1.829	2.613	.8285	.2178	1.910	.1856	1.904
#1	.1996	.0022	.0031	.0525	.0111	.0097	.0167	.0112
#2	.1998	.0021	.0030	.0531	.0112	.0100	.0168	.0115

Check ? Value
Range

Elem	Ag3280	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0053	.0542	W_.0243	W_.0099	W_.0123	W_.0038	.0119	.0071
Stddev	.0001	.0001	.0002	.0003	.0006	.0006	.0023	.0003
%RSD	1.068	.1330	.9347	2.985	4.713	16.12	19.01	4.142
#1	.0053	.0543	.0241	.0101	.0119	.0034	.0135	.0073
#2	.0053	.0542	.0244	.0097	.0127	.0042	.0103	.0069

Check ? Value
Range

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2110	5.089	.1072	5.065	5.087	4.987	.1033	.0211
Stddev	.0086	.009	.0007	.021	.006	.000	.0004	.0001
%RSD	4.074	.1706	.6602	.4057	.1225	.0081	.4256	.5467
#1	.2171	5.083	.1077	5.079	5.082	4.987	.1030	.0211
#2	.2050	5.095	.1067	5.050	5.091	4.988	.1036	.0210

Check ? Value
Range

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Sample Name: cri Acquired: 6/3/2014 19:27:38 Type: QC
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pd3404	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0470	.2112	.0104	.0105	.0111	F_.0056	.0106	.0476
Stddev	.0002	.0005	.0005	.0001	.0003	.0010	.0002	.0015
%RSD	.4794	.2295	4.626	.7701	2.402	17.09	1.794	3.183
#1	.0468	.2115	.0101	.0105	.0113	.0063	.0105	.0487
#2	.0471	.2108	.0108	.0106	.0109	.0049	.0108	.0465

Check ? Value
Range

Elem	Bi2230	Li6707
Units	ppm	ppm
Avg	.0213	.0213
Stddev	.0001	.0003
%RSD	.3674	1.231
#1	.0214	.0211
#2	.0213	.0215

Check ? Value
Range

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	158150.	30497.	2123.2	5720.7
Stddev	474.	27.	5.4	15.2
%RSD	.29955	.08965	.25609	.26566
#1	157820.	30516.	2127.0	5731.5
#2	158490.	30478.	2119.3	5710.0

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Sample Name: crid Acquired: 6/3/2014 19:33:38 Type: QC
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0042	.0011	.0010	.0031	.0023	.0019	.0034	.0048
Stddev	.0000	.0000	.0002	.0001	.0001	.0002	.0000	.0004
%RSD	.8918	3.780	23.41	1.984	2.318	8.034	.4898	7.952
#1	.0042	.0010	.0011	.0030	.0023	.0020	.0033	.0050
#2	.0042	.0011	.0008	.0031	.0022	.0018	.0034	.0045

Check ? Value
Range

Elem	Ag3280	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	W_.0012	.0021	W_.0127	.0035	.0023	F_.0038	F_.0025	W_.0038
Stddev	.0000	.0002	.0005	.0013	.0007	.0001	.0008	.0001
%RSD	3.390	7.261	4.054	36.45	31.94	3.838	33.04	3.463
#1	.0013	.0023	.0131	.0026	.0018	.0039	.0019	.0039
#2	.0012	.0020	.0123	.0044	.0028	.0037	.0031	.0037

Check ? Value
Range

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1052	1.048	.0011	.1063	2.067	1.034	.0099	-.0001
Stddev	.0005	.001	.0008	.0028	.019	.004	.0002	.0002
%RSD	.4894	.0507	69.69	2.656	.9037	.4347	1.929	175.7
#1	.1056	1.048	.0006	.1043	2.080	1.037	.0100	.0000
#2	.1048	1.047	.0016	.1083	2.054	1.031	.0098	-.0003

Check ? Value
Range

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Sample Name: crid Acquired: 6/3/2014 19:33:38 Type: QC
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pd3404	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.001	.0010	.0001	-0.001	.0002	F-.0000	F-.0001	F-.0003
Stddev	.0001	.0008	.0005	.0000	.0001	.000	.0001	.0008
%RSD	37.54	82.68	631.5	35.38	45.65	49.61	96.60	308.6
#1	-.0001	.0015	.0004	.0000	.0002	.0000	.0000	-.0003
#2	-.0002	.0004	-.0003	-.0001	.0001	.0000	-.0002	.0008
Check ?	None	None	None	None	None	Chk Fail	Chk Fail	Chk Fail
Value						.0040	.0040	.0040
Range						-30.00%	-30.00%	-30.00%

Elem	Bi2230	Li6707
Units	ppm	ppm
Avg	F-.0005	F-.0003
Stddev	.0008	.0004
%RSD	180.3	111.2

#1	.0010	.0001
#2	-.0001	.0006

Check ?	Chk Fail	Chk Fail
Value	.0040	.0040
Range	-30.00%	-30.00%

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	158800.	30755.	2128.5	5753.5
Stddev	950.	63.	52.6	141.8
%RSD	.59851	.20415	2.4709	2.4643

#1	159470.	30799.	2091.4	5653.2
#2	158120.	30710.	2165.7	5853.7

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Sample Name: cria Acquired: 6/3/2014 19:39:43 Type: QC
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0000	-0.0002	.0000	-0.0001	-0.0002	.0000	.0003	.0002
Stddev	.0001	.0000	.0000	.0001	.0001	.0001	.000	.0001	.0002
%RSD	56.33	6.056	22.12	293.8	114.7	68.83	11.94	41.69	95.73
#1	.0001	.0000	-.0002	.0000	.0000	-.0001	.0000	.0002	.0001
#2	.0002	.0000	-.0002	.0001	-.0002	-.0003	.0000	.0003	.0003
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0010	.0212	-0.0005	.0240	.0201	.0212	.5290	.0080
Stddev	.0000	.0001	.0001	.0008	.0009	.0030	.0005	.0205	.0008
%RSD	45.30	11.81	.3283	176.1	3.659	14.76	2.501	3.873	10.06

#1	.0001	.0009	.0212	.0001	.0234	.0222	.0216	.5145	.0086
#2	.0001	.0011	.0213	-.0010	.0247	.0180	.0208	.5435	.0074

Check ?	None	None	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5570	.0057	.0059	-0.0005	-0.0015	-0.0003	.0000	-0.0020	.0006
Stddev	.0261	.0008	.0347	.0053	.0000	.0001	.001	.0011	.0001
%RSD	4.683	13.50	586.7	967.5	2.777	22.92	1815.	6.195	12.92

#1	.5386	.0051	-.0186	.0032	-.0015	-.0004	-.0005	-.0019	.0006
#2	.5755	.0062	.0305	-.0043	-.0015	-.0003	.0004	-.0021	.0007

Check ?	Chk Pass	None	None	None	None	None	None	None	None
Value									
Range									

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Sample Name: cria Acquired: 6/3/2014 19:39:43 Type: QC
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0004	-0.0010	-0.0001	-0.0012	-0.0004	-0.0005
Stddev	.000	.0001	.0008	.0001	.0008	.0000	.0003
%RSD	172.1	26.51	80.29	112.6	69.16	8.472	66.06

#1	-.0001	.0003	-.0004	.0000	-.0006	-.0004	-.0003
#2	.0000	.0005	-.0016	-.0002	-.0018	-.0004	-.0008

Check ?	None	None	None	None	None	None	None
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	160530.	29667.	2139.0	5772.3
Stddev	296.	1108.	0	1.2
%RSD	.18454	3.7331	.00082	.02051

#1	160740.	30451.	2139.0	5771.5
#2	160320.	28884.	2139.0	5773.1

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Sample Name: sampleconf Acquired: 6/3/2014 19:45:48 Type: Unk
Method: Accutest1(v112) Mode: CONC Corr. Factor: 15.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0622	.0155	.0133	.0496	.0352	.0315	.0500	.0741	.0180
Stddev	.0013	.0004	.0006	.0011	.0036	.0020	.0001	.0011	.0012
%RSD	2.152	2.885	4.286	2.161	10.33	6.207	.1288	1.536	6.579

#1	.0612	.0152	.0137	.0489	.0326	.0301	.0500	.0749	.0188
#2	.0631	.0159	.0129	.0504	.0377	.0329	.0500	.0733	.0171

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0307	.1933	.0474	.0210	.0466	.0745	.0516	1.616	15.79
Stddev	.0010	.0025	.0072	.0022	.0063	.0083	.0088	.035	.40
%RSD	3.245	1.290	15.10	10.25	13.47	11.08	17.00	2.183	2.555

#1	.0314	.1951	.0424	.0195	.0422	.0804	.0454	1.591	15.50
#2	.0300	.1916	.0525	.0226	.0510	.0687	.0578	1.641	16.07

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0003	1.696	30.66	15.54	1.294	-0.0034	.0021	.0070	.0029
Stddev	.0039	.018	.54	.31	.0037	.0001	.0104	.0176	.0052
%RSD	1442.	1.058	1.761	2.005	2.853	1.848	487.7	253.4	178.6

#1	-.0030	1.683	30.28	15.32	.1320	-.0034	.0095	.0194	-.0008
#2	.0025	1.709	31.05	15.76	.1268	-.0034	-.0052	-.0055	.0066

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0010	.0006	-0.0186	-0.0015	-0.0235	.0077	.0016
Stddev	.0002	.0001	.0040	.0016	.0285	.0057	.0006
%RSD	24.19	21.48	21.38	104.8	121.5	74.73	35.34

#1	-.0011	.0005	-.0158	-.0004	-.0436	.0036	.0012
#2	-.0008	.0007	-.0214	-.0026	-.0033	.0117	.0020

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	160560.	30451.	2128.2	5732.7
Stddev	347.	632.	1.0	.6
%RSD	.21628	2.0739	.04607	.01005

#1	160810.	30897.	2128.9	5733.1
#2	160320.	30004.	2127.5	5732.3

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Sample Name: icsa Acquired: 6/3/2014 19:51:52 Type: QC
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0002	.0000	.0021	-0.0003	-0.0001	.0031	.0000	-0.0004	.0029
Stddev	.0000	.0000	.0000	.0001	.0001	.0000	.000	.0003	.0003
%RSD	3.001	203.9	.7225	40.86	65.82	.8632	6002.	88.76	9.772
#1	-.0002	.0000	.0021	-.0002	-.0001	.0031	-.0002	-.0006	.0027
#2	-.0002	.0000	.0021	-.0004	-.0002	.0031	.0002	-.0001	.0031

Check ? High Limit
Low Limit

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008	-0.0006	.0027	.0005	-0.0023	.0004	.0057	534.0	409.9
Stddev	.0003	.0005	.0025	.0006	.0008	.0051	.0017	6.5	1.2
%RSD	36.99	79.73	91.34	107.0	32.23	1210.	30.03	1.226	.2806
#1	.0006	-.0010	.0010	.0009	-.0029	-.0032	.0069	538.6	410.7
#2	.0010	-.0003	.0045	.0001	-.0018	.0040	.0045	529.3	409.1

Check ? High Limit
Low Limit

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	204.7	581.0	.1441	.0154	-0.0019	-0.0048	.0060	.0125	-0.0004
Stddev	.5	.9	.0138	.0055	.0002	.0001	.0000	.0011	.0010
%RSD	.2523	.1494	9.612	35.85	10.98	1.406	.3160	9.053	220.8
#1	204.3	581.6	.1539	.0193	-.0018	-.0048	.0060	.0133	.0003
#2	205.0	580.4	.1343	.0115	-.0021	-.0047	.0060	.0117	-.0011

Check ? High Limit
Low Limit

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Sample Name: icsa Acquired: 6/3/2014 19:51:52 Type: QC
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0067	.0004	.0100	.0066	-0.0678	.0150	.0013
Stddev	.0001	.0002	.0009	.0001	.0019	.0014	.0008
%RSD	1.317	36.98	9.357	.9000	2.766	9.222	58.42
#1	-.0068	.0005	.0106	.0067	-.0692	.0160	.0008
#2	-.0067	.0003	.0093	.0066	-.0665	.0140	.0019

Check ? High Limit
Low Limit

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	142970.	27619.	1877.7	4872.6
Stddev	236.	34.	2.1	7.8
%RSD	.16506	.12403	.11024	.15994
#1	142800.	27595.	1876.3	4867.1
#2	143140.	27643.	1879.2	4878.1

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Sample Name: ICSAB Acquired: 6/3/2014 19:58:08 Type: QC
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5262	.5214	1.038	.4924	.4843	.5449	.5102	.9889	1.057
Stddev	.0160	.0135	.009	.0010	.0008	.0015	.0018	.0064	.003
%RSD	3.040	2.582	.8890	.2090	.1565	.2813	.3580	.6444	.2525
#1	.5375	.5310	1.045	.4931	.4838	.5460	.5089	.9934	1.059
#2	.5149	.5119	1.032	.4917	.4848	.5438	.5115	.9844	1.055

Check ? Value
Range

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4875	.9876	1.084	.9712	1.013	1.050	1.032	518.3	398.1
Stddev	.0004	.0040	.013	.0071	.007	.006	.009	9.0	12.3
%RSD	.0739	.4093	1.159	.7313	.6556	.5873	.9049	1.740	3.077
#1	.4873	.9905	1.093	.9763	1.018	1.055	1.039	524.7	406.8
#2	.4878	.9848	1.075	.9662	1.009	1.046	1.026	511.9	389.4

Check ? Value
Range

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	198.3	573.1	.1125	.0152	-0.0012	.4997	.5668	.0030	.0005
Stddev	3.2	13.3	.0142	.0006	.0001	.0044	.0000	.0012	.0002
%RSD	1.600	2.320	12.64	3.909	11.96	.8829	.0036	40.88	30.33
#1	200.5	582.5	.1226	.0148	-.0013	.5028	.5668	.0038	.0006
#2	196.0	563.7	.1024	.0156	-.0011	.4966	.5668	.0021	.0004

Check ? Value
Range

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Sample Name: ICSAB Acquired: 6/3/2014 19:58:08 Type: QC
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0065	.0003	.5594	F_6051	.4387	.5761	.5644
Stddev	.0001	.0002	.0051	.0018	.0000	.0077	.0191
%RSD	1.814	47.73	.9191	.3050	.0006	1.331	3.389
#1	-.0066	.0004	.5631	.6038	.4387	.5815	.5779
#2	-.0064	.0002	.5558	.6064	.4387	.5707	.5509

Check ? Value
Range

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	144010.	28274.	1913.5	4963.4
Stddev	84.	532.	21.5	42.4
%RSD	.05845	1.8819	1.1210	.85392
#1	143950.	27898.	1898.3	4933.4
#2	144060.	28650.	1928.6	4993.4

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Sample Name: feconf									
Acquired: 6/3/2014 20:04:15									
Type: Unk									
Method: Accutest1(v112)									
Mode: CONC									
Corr. Factor: 1.000000									
User: admin									
Custom ID1:									
Custom ID2:									
Custom ID3:									
Comment:									
Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.0000	.0000	.0007	.0006	.0002	.0012	.0015	.0004	.0058
Stddev	.000	.000	.0002	.0001	.0000	.0000	.0000	.0002	.0004
%RSD	1298.	122.1	25.79	17.29	8.575	.6126	2.041	59.36	6.896
#1	-.0002	.0000	.0008	-.0005	.0002	.0012	.0014	-.0002	.0060
#2	.0001	.0000	.0005	-.0007	.0002	.0012	.0015	-.0006	.0055
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0009	.0050	.0011	.0019	.0008	.0021	.0070	.0053	.0088
Stddev	.0000	.0000	.0010	.0004	.0001	.0041	.0001	.0041	.0036
%RSD	5.584	.8511	97.61	21.45	10.99	195.4	1.135	77.35	40.95
#1	.0009	.0051	.0003	.0022	-.0009	.0049	.0069	-.0024	-.0113
#2	.0008	.0050	.0018	.0016	-.0007	-.0008	.0070	-.0081	-.0062
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	211.4	.0266	.0981	.0040	.0037	.0001	.0041	.0146	.0012
Stddev	.1	.0178	.0089	.0074	.0005	.0003	.0007	.0009	.0002
%RSD	.0317	66.88	9.117	185.1	13.26	236.7	17.28	6.431	18.79
#1	211.4	-.0140	.1044	-.0012	-.0033	-.0001	.0046	-.0153	-.0011
#2	211.3	-.0392	.0918	.0093	-.0040	.0003	.0036	-.0139	-.0014
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0000	.0000	.0064	.0076	.0038	.0207	.0001		
Stddev	.000	.0002	.0009	.0001	.0008	.0006	.0010		
%RSD	23.11	551.2	14.32	1.956	21.52	2.667	2008.		
#1	.0000	.0002	.0057	.0077	-.0044	.0211	.0007		
#2	.0000	-.0001	.0070	.0075	-.0033	.0204	-.0008		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	157120.	30209.	2096.5	5812.9					
Stddev	126.	22.	4.9	2.0					
%RSD	.08037	.07282	.23427	.03485					
#1	157030.	30193.	2099.9	5814.3					
#2	157210.	30224.	2093.0	5811.4					

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Sample Name: ccv Acquired: 6/3/2014 20:16:24 Type: QC									
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000									
User: admin		Custom ID1:		Custom ID2:		Custom ID3:			
Comment:									
Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.019	2.068	2.062	2.078	2.078	1.986	2.131	2.099	2.466
Stddev	.001	.001	.002	.003	.008	.002	.008	.005	.0002
%RSD	.0497	.0559	.0878	.1638	.4011	.0837	.3632	.2553	.0877
#1	2.019	2.068	2.061	2.076	2.073	1.985	2.126	2.096	.2464
#2	2.020	2.067	2.063	2.081	2.084	1.987	2.137	2.103	.2468
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.045	2.113	2.046	2.111	2.092	2.024	2.044	39.52	40.13
Stddev	.007	.006	.004	.004	.004	.012	.000	.00	.10
%RSD	.3537	.2902	.1928	.1947	.1707	.5694	.0029	.0103	.2541
#1	2.040	2.109	2.043	2.108	2.089	2.016	2.045	39.51	40.21
#2	2.050	2.118	2.048	2.114	2.095	2.033	2.044	39.52	40.06
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.27	39.60	39.37	39.79	2.035	2.078	1.977	5.049	2.088
Stddev	.06	.12	.00	.04	.001	.003	.001	.001	.007
%RSD	.1608	.2976	.0004	.0988	.0643	.1273	.0730	.0212	.3460
#1	40.31	39.68	39.37	39.76	2.034	2.076	1.976	5.049	2.083
#2	40.22	39.52	39.37	39.81	2.036	2.079	1.978	5.048	2.093
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

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Sample Name: sampleconf			Acquired: 6/3/2014 20:10:21			Type: Unk			
Method: Accutest1(v112)			Mode: CONC			Corr. Factor: 1.000000			
User: admin			Custom ID1:		Custom ID2:		Custom ID3:		
Comment:									
Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.0005	.0001	.0003	.0007	12.27	.0025	.0006	.0004	.0002
Stddev	.0001	.0000	.0004	.0007	1.66	.0042	.0009	.0000	.0001
%RSD	22.84	7.630	129.4	110.1	13.54	169.3	141.3	1.073	63.69
#1	.0005	.0001	-.0006	.0012	11.10	-.0005	.0000	.0003	.0001
#2	.0004	.0001	.0000	.0001	13.45	.0054	-.0013	.0004	.0003
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	-.0164	-.0030	.0335	.0011	.0005	-.0012	.1117	.0056	.0009
Stddev	.0245	.0088	.0445	.0036	.0004	.0007	.0477	.0049	.0320
%RSD	149.0	299.6	132.8	321.8	78.59	64.18	42.75	87.08	3485.
#1	.0009	.0033	.0650	-.0014	.0002	-.0006	.0779	.0022	-.0217
#2	-.0337	-.0092	.0020	.0037	.0008	-.0017	.1455	.0091	.0236
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0129	.0089	.0235	.0016	.0031	.0006	-.0011	.0049	.0003
Stddev	.0050	.0111	.0212	.0055	.0001	.0000	.0007	.0111	.0005
%RSD	38.66	123.8	89.91	339.7	4.435	6.622	62.27	225.0	151.3
#1	.0164	.0168	-.0385	-.0023	-.0032	.0006	-.0006	-.0029	.0000
#2	.0094	.0011	-.0086	.0055	-.0030	.0005	-.0016	.0127	-.0007
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0001	.0017	.0028	.0023	.0011	.0032	.0000		
Stddev	.0000	.0018	.0002	.0003	.0003	.0085	.001		
%RSD	8.446	108.8	7.381	14.37	27.43	261.4	2155.		
#1	.0000	.0004	-.0027	-.0021	.0009	-.0027	.0004		
#2	.0001	.0029	-.0030	-.0025	.0013	.0092	-.0005		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	*****	30989.	2109.0	5766.1					
Stddev	-----	5.	7.7	19.4					
%RSD	-----	.01707	.36321	.33703					
#1	161680.	30993.	2103.6	5752.3					
#2	-----	30985.	2114.4	5779.8					

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Sample Name: ccv		Acquired: 6/3/2014 20:16:24		Type: QC			
Method: Accutest1(v112)		Mode: CONC		Corr. Factor: 1.000000			
User: admin		Custom ID1:		Custom ID2:		Custom ID3:	
Comment:							
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.047	2.051	2.024	1.986	1.976	2.015	1.977
Stddev	.000	.009	.006	.006	.005	.001	.004
%RSD	.0155	.4572	.3180	.3009	.2319	.0411	.1879
#1	2.047	2.045	2.019	1.982	1.973	2.014	1.974
#2	2.048	2.058	2.028	1.991	1.979	2.015	1.979
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							
Int. Std.	Y_3600	Y_3710	Y_2243	In2306			
Units	Cts/S	Cts/S	Cts/S	Cts/S			
Avg	154970.	29905.	2061.7	5500.8			
Stddev	287.	75.	2	4.4			
%RSD	.18504	.25090	.01182	.08016			
#1	155170.	29852.	2061.8	5504.0			
#2	154760.	29958.	2061.5	5497.7			

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Sample Name: ccb Acquired: 6/3/2014 20:22:14 Type: QC
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0001	.0000	.0000	.0002	.0000	.0000	.0003	.0003
Stddev	.0000	.0000	.000	.0001	.0000	.0002	.0000	.0002	.0003
%RSD	9.274	51.26	190.0	2185.	16.25	1358.	218.3	46.97	94.52
#1	.0002	.0000	.0000	.0000	.0001	-.0001	.0000	.0002	.0005
#2	.0003	.0001	-.0001	.0001	.0002	.0002	.0000	.0005	.0001

Check ? High Limit Low Limit
Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0008	.0003	.0004	.0001	.0027	.0012	.0012	.0041
Stddev	.0001	.0000	.0003	.0004	.0007	.0038	.0000	.0076	.0019
%RSD	69.83	2954	51.65	116.6	827.7	137.5	.0350	615.6	44.72
#1	.0002	.0008	.0004	.0007	.0005	.0001	.0012	.0041	.0055
#2	.0001	.0008	.0008	.0001	.0004	-.0054	.0012	-.0066	.0028

Check ? High Limit Low Limit
Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0023	.0042	.0174	.0001	.0018	.0001	.0001	.0004	.0000
Stddev	.0011	.0097	.0318	.0046	.0003	.0001	.0004	.0007	.0008
%RSD	46.57	232.3	182.5	3236.	19.54	48.33	688.8	147.3	1876.
#1	.0015	.0027	.0399	.0031	.0020	.0001	.0002	.0009	.0006
#2	.0030	.0110	.0051	.0034	.0015	.0002	.0003	.0000	.0005

Check ? High Limit Low Limit
Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

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Sample Name: ccb Acquired: 6/3/2014 20:22:14 Type: QC
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0003	.0022	.0001	.0010	.0006	.0003
Stddev	.0000	.0003	.0003	.0000	.0002	.0003	.0000
%RSD	76.30	85.74	11.34	27.64	22.06	42.05	2.661
#1	.0001	.0006	.0020	.0001	.0011	.0008	.0003
#2	.0000	.0001	.0024	.0001	.0008	.0004	.0003

Check ? High Limit Low Limit
Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	159930.	30576.	2132.1	5741.2
Stddev	260.	54.	17.6	48.4
%RSD	.16272	.17682	.82742	.84228
#1	159750.	30614.	2119.6	5707.0
#2	160120.	30537.	2144.5	5775.4

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Sample Name: sampleconf Acquired: 6/3/2014 20:28:19 Type: Unk
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.0042	.0010	.0011	.0032	.0013	.0062	.0021	.0049	.0009
Stddev	.0001	.0000	.0002	.0000	.0010	.0117	.0018	.0002	.0003
%RSD	1.547	1.939	17.17	1.314	74.45	187.8	85.13	3.323	32.98
#1	.0042	.0011	.0012	.0032	.0006	.0145	.0008	.0048	.0007
#2	.0043	.0010	.0010	.0033	.0020	.0020	.0034	.0050	.0011

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0017	.0128	.0033	.0029	.0032	.0031	.0039	.1038	1.049
Stddev	.0007	.0000	.0005	.0009	.0012	.0015	.0003	.0050	.006
%RSD	42.21	.3147	14.32	29.54	35.97	49.06	8.849	4.776	.5611
#1	.0012	.0128	.0037	.0023	.0041	.0042	.0041	.1073	1.054
#2	.0022	.0127	.0030	.0035	.0024	.0020	.0036	.1003	1.045

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0003	.1029	2.034	1.036	.0080	.0002	.0006	.0005	.0002
Stddev	.0010	.0055	.008	.006	.0000	.0001	.0006	.0004	.0006
%RSD	313.7	5.304	.4055	.6220	.3019	28.43	97.18	69.91	362.7
#1	.0010	.0990	2.028	1.040	.0080	.0002	.0010	.0008	.0006
#2	.0004	.1067	2.040	1.031	.0080	.0002	.0002	.0003	.0003

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0007	.0012	.0000	.0002	.0004	.0007
Stddev	.0001	.0006	.0002	.0002	.0001	.0003	.0006
%RSD	263.9	83.45	14.47	643.0	56.52	59.32	91.63

#1	.0001	.0012	.0013	.0002	.0001	.0003	.0002
#2	.0000	.0003	.0011	.0001	.0003	.0006	.0011

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	*****	30469.	2128.4	5731.7
Stddev	-----	163.	3.7	7.8
%RSD	-----	.53592	.17612	.13628

#1	-----	30353.	2131.1	5737.2
#2	158710.	30584.	2125.8	5726.1

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Sample Name: mp79767-mb1conf Acquired: 6/3/2014 20:34:22 Type: Unk
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.0003	.0000	.0000	.0003	.0002	.0000	.0000	.0000	.0000
Stddev	.0002	.000	.0001	.0001	.0000	.001	.0000	.0001	.000
%RSD	83.36	13140.	379.6	31.84	18.38	1335.	110.1	425.5	283.0

#1	.0004	.0000	.0001	.0002	.0001	.0003	.0000	.0001	.0000
#2	.0001	.0000	.0001	.0004	.0002	.0004	.0000	.0001	.0000

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0009	.0012	.0007	.0004	.0000	.0008	.0008	.0054
Stddev	.0001	.0000	.0005	.0005	.0012	.0005	.0004	.0001	.0003
%RSD	59.38	.4228	45.07	77.50	285.6	2210.	52.70	16.76	4.685

#1	.0001	.0009	.0016	.0003	.0004	.0003	.0011	.0007	.0056
#2	.0003	.0009	.0008	.0010	.0013	.0004	.0005	.0009	.0052

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0037	.0053	.0341	.0099	.0003	.0000	.0003	.0143	.0006
Stddev	.0007	.0136	.0084	.0046	.0000	.000	.0002	.0001	.0001
%RSD	19.60	258.3	24.58	46.80	.8418	23.53	75.89	.4396	19.85

#1	.0042	.0043	.0401	.0131	.0003	.0000	.0005	.0143	.0005
#2	.0032	.0149	.0282	.0066	.0003	.0000	.0001	.0142	.0006

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0005	.0010	.0000	.0038	.0005	.0002
Stddev	.0000	.0002	.0006	.000	.0001	.0005	.0004
%RSD	93.69	33.03	59.19	373.4	3.843	85.86	252.2

#1	.0000	.0006	.0006	.0001	.0037	.0002	.0001
#2	.0000	.0004	.0015	.0001	.0039	.0009	.0004

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	163120.	29766.	2123.7	5752.8
Stddev	5481.	1003.	14.5	31.9
%RSD	3.3603	3.3681	.68217	.55451

#1	159250.	29057.	2113.4	5730.2
#2	167000.	30475.	2133.9	5775.4

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Sample Name: jb67498-4 2 Acquired: 6/3/2014 20:40:25 Type: Unk
Method: Accutest1(v112) Mode: CONC Corr. Factor: 20.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Avg	.0182	.0370	.0014	.4086	.0704	.0483	2.882	.1575
Stddev	.0007	.0001	.0004	.0034	.0035	.0136	.124	.0001
%RSD	4.054	.1627	30.63	.8283	5.041	28.27	4.291	.0556
#1	.0177	.0370	.0018	.4062	.0729	.0579	2.970	.1574
#2	.0187	.0371	.0011	.4110	.0679	.0386	2.795	.1575
Elem	Ag3280	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068
Avg	-.0009	.0057	1.638	.0644	F -.0532	.0372	-.0143	.0172
Stddev	.0035	.0026	.002	.0196	.0085	.0052	.0408	.0006
%RSD	407.0	45.43	.1179	30.35	16.03	14.04	284.8	3.565
#1	.0016	.0076	1.636	.0783	-.0592	.0409	-.0432	.0168
#2	-.0033	.0039	1.639	.0506	-.0471	.0335	.0145	.0177
Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Avg	81.78	45.19	24.75	23.40	8.845	1012.	-.0212	-.0057
Stddev	.54	.01	.04	.17	.127	1.	.0137	.0022
%RSD	.6564	.0300	.1418	.7158	1.433	.1248	64.68	38.47
#1	81.40	45.18	24.77	23.52	8.935	1011.	-.0115	-.0042
#2	82.16	45.20	24.73	23.28	8.755	1013.	-.0308	-.0073
Elem	Pd3404	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820
Avg	.0132	36.39	-.0044	.4175	.0117	-.0373	-.0397	1169.
Stddev	.0055	.15	.0051	.0023	.0034	.0051	.0021	2.
%RSD	41.55	.4209	116.1	.5453	29.23	13.61	5.292	.1696
#1	.0170	36.29	-.0079	.4159	.0093	-.0409	-.0382	1168.
#2	.0093	36.50	-.0008	.4192	.0141	-.0337	-.0411	1171.
Elem	Bi2230	Li6707						
Avg	.0043	.0366						
Stddev	.0163	.0013						
%RSD	379.7	3.630						
#1	.0158	.0375						
#2	-.0072	.0357						

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Sample Name: jb67498-4 2 Acquired: 6/3/2014 20:40:25 Type: Unk
Method: Accutest1(v112) Mode: CONC Corr. Factor: 20.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	163580.	31048.	2138.7	5662.3
Stddev	5602.	48.	8.3	15.5
%RSD	3.4249	.15602	.38816	.27374
#1	159620.	31083.	2144.5	5673.3
#2	167540.	31014.	2132.8	5651.4

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Sample Name: mp79805-mb1 1 Acquired: 6/3/2014 20:46:24 Type: Unk
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: epa tl

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.0001	.0000	-.0001	.0001	.0000	-.0006	.0000	.0003	.0000
Stddev	.0000	.000	.0000	.0001	.000	.0000	.000	.0001	.0001
%RSD	11.06	1039.	27.61	225.1	348.9	1.167	108.0	43.08	5830.
#1	.0001	.0000	-.0001	.0000	.0000	-.0006	.0000	.0004	.0000
#2	.0001	.0000	-.0002	.0002	-.0001	-.0005	.0000	.0002	.0000
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0001	.0000	.0000	-.0009	.0016	-.0005	.0009	-.0056	-.0018
Stddev	.0000	.000	.0003	.0015	.0006	.0009	.0008	.0008	.0011
%RSD	10.28	316.1	3839.	160.7	39.98	184.1	93.60	13.94	63.33
#1	.0001	.0001	.0002	.0001	.0020	-.0011	.0003	-.0061	-.0010
#2	.0001	-.0002	-.0002	-.0020	.0011	.0001	.0015	-.0050	-.0025
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0008	-.0009	-.0192	.0028	-.0029	-.0002	.0006	.0087	-.0004
Stddev	.0005	.0094	.0296	.0008	.0002	.0000	.0005	.0004	.0004
%RSD	65.84	1087.	154.1	27.93	8.606	5.644	78.45	5.151	117.0
#1	.0004	.0058	-.0402	.0023	-.0027	-.0002	.0009	.0084	-.0007
#2	.0011	-.0075	.0017	.0034	-.0031	-.0002	.0003	.0090	-.0001
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0000	.0001	-.0018	-.0003	.0002	-.0005	.0006		
Stddev	.000	.0001	.0004	.0001	.0024	.0003	.0005		
%RSD	165.0	91.33	21.43	50.00	1130.	58.22	84.90		
#1	.0000	.0000	-.0021	-.0004	.0019	-.0003	.0009		
#2	.0000	.0002	-.0015	-.0002	-.0015	-.0008	.0002		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	163760.	30543.	2118.6	5684.1					
Stddev	1277.	667.	28.0	65.8					
%RSD	.77959	2.1847	1.3239	1.1575					
#1	164660.	30071.	2138.4	5730.7					
#2	162860.	31015.	2098.8	5637.6					

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Sample Name: mp79805-mb2 Acquired: 6/3/2014 20:52:29 Type: Unk
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.0001	.0000	.0000	.0001	.0001	-.0001	.0000	.0003	.0002
Stddev	.0001	.0000	.0000	.0001	.0002	.0003	.000	.0001	.0000
%RSD	44.05	22.61	15.24	83.23	367.8	340.9	52.97	18.58	16.91
#1	.0002	.0000	.0000	.0001	.0002	.0001	.0000	.0003	.0002
#2	.0001	.0000	.0000	.0000	-.0001	-.0003	.0000	.0004	.0002
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0000	-.0001	-.0001	-.0007	.0004	-.0007	.0005	-.0031	-.0026
Stddev	.000	.0001	.0002	.0017	.0010	.0016	.0001	.0022	.0017
%RSD	2085.	48.41	352.9	244.1	224.1	239.6	11.53	69.96	64.37
#1	.0001	-.0001	.0001	-.0019	-.0003	.0005	.0006	-.0016	-.0037
#2	-.0001	-.0001	-.0002	.0005	.0011	-.0018	.0005	-.0047	-.0014
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0005	.0013	-.0005	-.0030	-.0026	-.0001	.0000	.0011	.0002
Stddev	.0016	.0032	.0279	.0016	.0001	.0001	.0010	.0001	.0005
%RSD	304.9	254.4	5629.	53.68	5.453	100.1	2728.	12.56	289.9
#1	.0016	.0035	-.0202	-.0042	-.0027	-.0002	.0008	.0012	-.0002
#2	-.0006	-.0010	.0192	-.0019	-.0025	.0000	-.0007	.0010	.0005
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0000	.0004	-.0025	-.0001	.0002	.0000	.0001		
Stddev	.0000	.0000	.0008	.0001	.0031	.000	.0001		
%RSD	790.0	8.688	30.05	125.6	1348.	4.786	49.60		
#1	.0000	.0004	-.0020	.0000	-.0020	.0000	.0001		
#2	.0000	.0003	-.0031	-.0002	.0024	.0000	.0001		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	159010.	30560.	2139.7	5752.2					
Stddev	109.	152.	8.2	14.6					
%RSD	.06865	.49856	.38535	.25428					
#1	159080.	30668.	2145.5	5762.6					
#2	158930.	30452.	2133.8	5741.9					

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Sample Name: mp79805-lc1 Acquired: 6/3/2014 20:58:34 Type: Unk
 Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
 User: admin Custom ID1: Custom ID2: Custom ID3:
 Comment: check se

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.4930	.4996	.5131	.4999	.5332	.4766	.5440	.5215	.2025
Stddev	.0025	.0018	.0083	.0057	.0074	.0085	.0088	.0067	.0038
%RSD	.4975	.3675	1.610	1.148	1.396	1.778	1.609	1.284	1.882
#1	.4948	.5009	.5190	.5040	.5279	.4706	.5378	.5262	.1998
#2	.4913	.4983	.5073	.4959	.5385	.4826	.5502	.5167	.2052
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.5096	.5620	.5196	.5369	.5764	.5182	.5038	.4990	.5553
Stddev	.0094	.0057	.0072	.0044	.0098	.0049	.0115	.018	.023
%RSD	1.851	1.020	1.378	.8244	1.704	.9446	2.276	.3625	.4080
#1	.5029	.5661	.5247	.5400	.5833	.5217	.5119	5.003	5.569
#2	.5163	.5580	.5146	.5338	.5695	.5148	.4957	4.977	5.537
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	5.652	5.423	9.930	10.04	.0021	.4934	.0007	-0.0050	-0.0002
Stddev	.029	.016	.039	.04	.0002	.0067	.0001	.0009	.0006
%RSD	.5072	.2873	.3944	.3535	10.44	1.358	18.02	18.00	334.8
#1	5.672	5.434	9.958	10.07	.0022	.4981	.0008	-0.0044	.0002
#2	5.632	5.412	9.902	10.02	.0019	.4886	.0006	-0.0056	-0.0006
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	-0.0002	.5228	.0009	-0.0002	.0008	-0.0040	-0.0004		
Stddev	.0001	.0092	.0002	.0002	.0031	.0002	.0003		
%RSD	31.55	1.763	25.16	99.39	383.9	4.089	75.12		
#1	-.0002	.5163	.0007	-.0003	-.0014	-.0039	-.0002		
#2	-.0003	.5293	.0010	-.0000	-.0030	-.0041	-.0006		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	155240.	30533.	2116.7	5724.3					
Stddev	2752.	106.	33.3	75.2					
%RSD	1.7726	.34699	1.5718	1.3134					
#1	157180.	30458.	2093.2	5671.2					
#2	153290.	30608.	2140.2	5777.5					

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Sample Name: mp79805-lc2 Acquired: 6/3/2014 21:04:28 Type: Unk
 Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
 User: admin Custom ID1: Custom ID2: Custom ID3:
 Comment: check se

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.4868	.4930	.5091	.4950	.5096	.4562	.5202	.5170	.1944
Stddev	.0015	.0020	.0005	.0003	.0066	.0046	.0060	.0012	.0008
%RSD	.3085	.4034	.0957	.0672	1.302	1.018	1.147	.2243	.3931
#1	.4857	.4944	.5088	.4947	.5049	.4529	.5160	.5162	.1939
#2	.4878	.4916	.5095	.4952	.5143	.4595	.5244	.5178	.1950
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.4880	.5562	.5183	.5311	.5700	.5218	.5007	.4911	.5459
Stddev	.0055	.0006	.0009	.0018	.0011	.0021	.0003	.013	.034
%RSD	1.133	.1052	.1830	.3306	.1896	.3985	.0679	.2553	.6174
#1	.4841	.5567	.5177	.5299	.5692	.5232	.5005	4.919	5.483
#2	.4919	.5558	.5190	.5323	.5708	.5203	.5009	4.902	5.435
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	5.567	5.367	9.797	9.911	.0018	.4910	.0013	.0043	-0.0005
Stddev	.021	.059	.010	.017	.0004	.0009	.0005	.0007	.0004
%RSD	.3840	1.093	.1061	.1750	19.80	.1880	37.89	16.22	95.38
#1	5.583	5.409	9.789	9.923	.0020	.4904	.0010	.0038	-0.0008
#2	5.552	5.326	9.804	9.899	.0015	.4917	.0017	.0048	-0.0002
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	-0.0002	.4991	.0012	.0000	.0004	-0.0053	.0001		
Stddev	.0000	.0060	.0005	.0001	.0009	.0002	.0005		
%RSD	15.32	1.201	45.11	1122.	216.7	3.191	454.5		
#1	-.0002	.4949	.0008	.0001	-.0002	-.0054	-.0002		
#2	-.0002	.5033	.0015	.0001	-.0002	-.0052	.0005		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	160620.	30908.	2114.4	5727.3					
Stddev	1836.	119.	5.7	12.8					
%RSD	1.1431	.38564	.27069	.22435					
#1	161920.	30824.	2118.4	5736.4					
#2	159320.	30992.	2110.3	5718.2					

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Sample Name: mp79805-s1 Acquired: 6/3/2014 21:10:21 Type: Unk
 Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
 User: admin Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	1.916	.0489	.0575	.5545	.2212	.2614	.8101	.5735	.0549
Stddev	.310	.0076	.0074	.0028	.0009	.0002	.0013	.0017	.0006
%RSD	16.17	15.47	12.86	.5062	.0430	.0860	.1594	.3041	1.112
#1	1.697	.0435	.0627	.5525	.2218	.2612	.8110	.5723	.0545
#2	2.135	.0542	.0523	.5564	.2206	.2615	.8092	.5747	.0553
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.5352	.6062	2.351	2.262	.6215	2.507	.5586	2.326	209.5
Stddev	.0007	.0002	.014	.014	.0019	.007	.0037	.420	36.1
%RSD	.1395	.0249	.6067	.6041	.3051	.2847	.6646	18.06	17.25
#1	.5347	.6063	2.340	2.252	.6201	2.502	.5560	2.029	183.9
#2	.5357	.6060	2.361	2.271	.6228	2.512	.5612	2.623	235.0
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	1.016	40.57	45.85	104.9	.3130	.0004	-0.0015	.7887	-0.0025
Stddev	.173	6.48	7.48	18.4	.0008	.0005	.0081	.0099	.0016
%RSD	17.04	15.97	16.32	17.51	.2597	137.0	541.8	1.261	62.23
#1	.8932	35.99	40.56	91.87	.3125	.0007	-.0072	.7957	-.0014
#2	1.138	45.15	51.14	117.8	.3136	.0000	.0042	.7817	-.0037
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.2786	.0023	.0017	-0.0065	F 272.8	-0.0002	.1201		
Stddev	.0377	.0007	.0024	.0086	1.0	.0008	.0195		
%RSD	13.54	32.12	143.9	131.2	.3507	538.1	16.22		
#1	.2519	.0029	.0034	-.0005	272.2	-.0007	.1064		
#2	.3053	.0018	.0000	-.0126	273.5	.0004	.1339		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	149050.	*****	1950.8	5167.3					
Stddev	57.	-----	12.2	31.7					
%RSD	.03799	-----	.62415	.61290					
#1	149010.	-----	1959.4	5189.7					
#2	149090.	29758.	1942.2	5144.9					

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Sample Name: mp79805-s2 Acquired: 6/3/2014 21:16:24 Type: Unk
 Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
 User: admin Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	
Avg	2.271	.0573	.0532	.5627	.2390	.2857	.8771	.5811	
Stddev	.132	.0034	.0008	.0084	.0118	.0164	.0418	.0085	
%RSD	5.807	5.997	1.459	1.504	4.931	5.744	4.761	1.468	
#1	2.364	.0597	.0526	.5567	.2474	.2973	.9067	.5751	
#2	2.178	.0549	.0537	.5687	.2307	.2740	.8476	.5871	
Elem	Ag3280	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	
Avg	.0601	.5801	.6099	2.394	2.292	.6324	2.513	.5705	
Stddev	.0029	.0279	.0114	.035	.026	.0081	.032	.0083	
%RSD	4.746	4.805	1.868	1.485	1.117	1.289	1.265	1.458	
#1	.0621	.5998	.6018	2.369	2.274	.6266	2.490	.5646	
#2	.0581	.5604	.6179	2.419	2.310	.6381	2.535	.5764	
Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	
Avg	2.724	249.4	1.199	47.94	54.36	125.5	.3283	-0.0002	
Stddev	.158	11.5	.070	2.90	2.96	6.6	.0049	.0000	
%RSD	5.800	4.601	5.857	6.046	5.444	5.247	1.493	1.229	
#1	2.836	257.5	1.248	49.99	56.46	130.1	.3229	-.0002	
#2	2.612	241.2	1.149	45.89	52.27	120.8	.3298	-.0002	
Elem	Pd3404	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	
Avg	.0048	.8186	-0.0021	.3305	.0019	.0010	F -.0130	F 284.4	
Stddev	.0008	.0114	.0002	.0189	.0001	.0002	.0002	4.0	
%RSD	17.16	1.392	10.27	5.705	3.269	23.86	1.511	1.396	
#1	.0053	.8105	-.0019	.3438	.0020	.0008	-.0128	281.6	
#2	.0042	.8266	-.0022	.3171	.0019	.0011	-.0131	287.2	
Elem	Bi2230	Li6707							
Avg	-0.0003	.1455							
Stddev	.0008	.0087							
%RSD	239.9	5.948							
#1	.0002	.1516							
#2	-.0008	.1394							

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Sample Name: mp79805-s2 Acquired: 6/3/2014 21:16:24 Type: Unk
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	140510.	28736.	1936.8	5136.4
Stddev	5817.	1440.	23.8	62.8
%RSD	4.1398	5.0104	1.2298	1.2232
#1	136390.	27718.	1953.7	5180.8
#2	144620.	29754.	1920.0	5092.0

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Sample Name: ccv Acquired: 6/3/2014 21:22:27 Type: QC
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.023	2.062	2.068	2.082	2.072	1.999	2.130	2.101	2.460
Stddev	.002	.003	.003	.001	.008	.002	.011	.005	.0009
%RSD	.1071	.1494	.1202	.0632	.3999	.1205	.4916	.2168	.3676
#1	2.024	2.064	2.066	2.081	2.066	2.001	2.123	2.098	2.454
#2	2.021	2.060	2.070	2.083	2.078	1.997	2.137	2.104	2.467

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.044	2.119	2.049	2.119	2.097	2.009	2.050	39.59	39.91
Stddev	.007	.001	.001	.001	.006	.007	.002	.02	.08
%RSD	.3333	.0636	.0391	.0363	.2918	.3523	.0769	.0608	.2014
#1	2.040	2.120	2.048	2.120	2.092	2.004	2.051	39.61	39.97
#2	2.049	2.118	2.049	2.119	2.092	2.014	2.049	39.57	39.85

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.10	39.45	39.45	39.84	2.045	2.083	1.987	5.074	2.092
Stddev	.05	.10	.05	.01	.001	.001	.001	.002	.004
%RSD	.1212	.2492	.1302	.0232	.0610	.0262	.0445	.0474	.2036
#1	40.14	39.52	39.41	39.84	2.044	2.084	1.986	5.076	2.089
#2	40.07	39.38	39.49	39.83	2.046	2.083	1.987	5.072	2.095

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

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Sample Name: ccv Acquired: 6/3/2014 21:22:27 Type: QC
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.048	2.055	2.022	1.993	1.985	2.028	1.983
Stddev	.003	.006	.005	.008	.006	.002	.004
%RSD	.1209	.3120	.2299	.3827	.2933	.0770	.1847
#1	2.046	2.050	2.018	1.988	1.989	2.029	1.986
#2	2.050	2.060	2.025	1.999	1.981	2.027	1.981

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	154040.	29826.	2044.9	5459.3
Stddev	39.	5	3.3	60.68
%RSD	.25615	.12926	.02630	.06068

#1	154320.	29799.	2044.6	5461.6
#2	153770.	29853.	2045.3	5456.9

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Sample Name: ccb Acquired: 6/3/2014 21:28:19 Type: QC
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0001	.0000	.0000	.0003	.0003	.0001	.0008	.0002
Stddev	.0001	.0000	.000	.0000	.0001	.0001	.0000	.0001	.0001
%RSD	47.25	29.94	388.8	103.8	24.33	39.82	52.78	6.337	31.94

#1	.0004	.0002	.0001	.0000	.0002	.0002	.0001	.0008	.0002
#2	.0002	.0001	.0001	.0001	.0004	.0004	.0000	.0008	.0003

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0008	.0007	.0001	.0002	.0002	.0014	.0048	.0072
Stddev	.0000	.0001	.0003	.0007	.0008	.0002	.0001	.0038	.0010
%RSD	6.098	18.76	47.62	499.9	418.8	115.6	4.472	78.20	14.41

#1	.0003	.0007	.0004	.0006	.0007	.0004	.0014	.0022	.0079
#2	.0003	.0009	.0009	.0003	.0004	.0000	.0013	.0075	.0064

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0035	.0124	.0060	.0120	.0018	.0000	.0000	.0001	.0005
Stddev	.0010	.0060	.0114	.0039	.0001	.0000	.000	.0005	.0008
%RSD	29.15	48.43	189.2	32.94	7.366	11.22	630.6	971.9	158.5

#1	.0043	.0082	.0141	.0092	.0017	.0000	.0001	.0004	.0011
#2	.0028	.0167	.0020	.0148	.0019	.0000	.0001	.0003	.0001

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

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Sample Name: ccb Acquired: 6/3/2014 21:28:19 Type: QC
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0005	.0022	.0000	.0039	.0004	.0008
Stddev	.0000	.0001	.0000	.0000	.0007	.0001	.0001
%RSD	8.329	26.29	2.078	32.76	18.98	13.40	16.39
#1	.0002	.0004	.0022	.0000	.0034	.0004	.0009
#2	.0002	.0006	.0021	.0000	.0045	.0004	.0007

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	160920.	30599.	2108.5	5667.0
Stddev	413.	106.	46.1	121.7
%RSD	.25663	.34557	2.1861	2.1471
#1	161220.	30524.	2075.9	5581.0
#2	160630.	30674.	2141.1	5753.0

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Sample Name: jb68057-3 Acquired: 6/3/2014 21:34:23 Type: Unk
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Avg	.0041	.0000	.0001	.0001	-.0001	.0017	.2540	.0043
Stddev	.0007	.0000	.0004	.0000	.0003	.0000	.0002	.0009
%RSD	16.90	179.5	357.4	21.29	468.5	1.350	.0684	21.07

#1	.0036	.0001	-.0002	.0001	-.0003	.0017	.2539	.0036
#2	.0045	.0000	.0004	.0002	.0001	.0016	.2541	.0049

Elem	Ag3280	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068
Avg	.0002	.0002	.0031	.0089	F -.0021	.0045	-.0045	-.0004
Stddev	.0001	.0000	.0002	.0092	.0074	.0016	.0049	.0000
%RSD	58.33	16.45	5.431	103.0	350.3	34.98	108.5	4.549

#1	.0003	.0003	.0032	.0024	.0031	.0034	-.0079	-.0004
#2	.0001	.0002	.0030	.0154	-.0074	.0056	-.0010	-.0004

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Avg	.3481	199.3	.0051	17.18	22.60	85.76	.3194	-.0007
Stddev	.0765	25.4	.0040	2.23	3.09	11.63	.0035	.0005
%RSD	21.98	12.73	77.80	12.97	13.65	13.56	1.099	70.36

#1	.2940	181.4	.0023	15.60	20.42	77.54	.3219	-.0004
#2	.4022	217.3	.0079	18.75	24.78	93.98	.3169	-.0011

Elem	Pd3404	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820
Avg	.0007	.8018	-.0021	.2920	.0008	-.0019	-.0055	F 280.1
Stddev	.0053	.0190	.0004	.0331	.0010	.0006	.0078	2.0
%RSD	809.3	2.373	16.75	11.35	126.1	33.20	139.7	.7230

#1	-.0031	.8153	-.0019	.2686	.0015	-.0015	-.0001	281.5
#2	.0044	.7884	-.0024	.3154	.0001	-.0024	-.0110	278.6

Elem	Bi2230	Li6707
Avg	.0019	.1257
Stddev	.0011	.0177
%RSD	57.48	14.05

#1	.0026	.1132
#2	.0011	.1382

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Sample Name: jb68057-3 Acquired: 6/3/2014 21:34:23 Type: Unk
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	150510.	*****	1983.2	5242.9
Stddev	460.	-----	15.5	38.6
%RSD	.30562	-----	.77950	.73597
#1	150840.	-----	1972.3	5215.6
#2	150190.	29970.	1994.1	5270.2

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Sample Name: mp79805-sd1 Acquired: 6/3/2014 21:40:26 Type: Unk
Method: Accutest1(v112) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.0058	.0000	.0005	-.0002	.0010	-.0011	.2522	.0049	.0008
Stddev	.0006	.000	.0002	.0000	.0017	.0027	.0082	.0001	.0008
%RSD	10.11	2242.	42.14	8.693	164.9	240.1	3.234	1.150	109.5

#1	.0062	.0000	.0004	-.0003	-.0002	-.0030	.2464	.0050	.0014
#2	.0054	.0000	.0007	-.0002	.0022	.0008	.2580	.0049	.0002

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0004	.0079	.0154	-.0081	.0079	.0045	.0044	.5668	217.0
Stddev	.0001	.0005	.0022	.0042	.0030	.0126	.0015	.0215	.4
%RSD	15.22	6.974	14.40	51.55	38.17	277.7	32.87	3.800	.1639

#1	.0004	.0082	.0169	-.0110	.0058	-.0044	.0034	.5516	216.8
#2	.0004	.0075	.0138	-.0051	.0101	.0134	.0054	.5821	217.3

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0017	18.27	23.42	89.71	2871	-.0020	.0061	.7933	-.0012
Stddev	.0011	.02	.17	.02	.0015	.0001	.0014	.0029	.0028
%RSD	64.19	.1225	.7359	.0169	.5223	6.570	22.35	.3676	238.2

#1	.0009	18.26	23.30	89.70	.2860	-.0019	.0071	.7954	-.0031
#2	.0024	18.29	23.54	89.72	.2882	-.0021	.0052	.7913	.0008

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Avg	.3052	.0019	-.0084	-.0106	263.6	.0005	.1333
Stddev	.0000	.0001	.0018	.0006	.8	.0014	.0001
%RSD	.0014	4.077	20.87	5.945	.3005	272.8	.0421

#1	.3052	.0018	-.0072	-.0102	263.0	.0015	.1333
#2	.3052	.0019	-.0096	-.0111	264.1	-.0005	.1332

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	158490.	30492.	2094.5	5620.9
Stddev	4723.	60.	9.0	22.0
%RSD	2.9799	.19621	.42878	.39083

#1	161830.	30534.	2100.9	5636.4
#2	155150.	30449.	2088.2	5605.3

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Sample Name: jb68093-1 Acquired: 6/3/2014 21:46:25 Type: Unk
 Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
 User: admin Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.0684	.0002	.0002	.0053	.0347	.0548	.1316	.0148	.0007
Stddev	.0001	.0000	.0001	.0001	.0002	.0001	.0001	.0006	.0000
%RSD	.1171	4.829	56.37	2.082	.4480	.1834	.0536	4.230	6.411
#1	.0683	.0002	.0003	.0053	.0346	.0549	.1317	.0144	.0007
#2	.0684	.0002	.0001	.0052	.0348	.0547	.1316	.0153	.0007
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0272	.0449	.0083	.0009	.0304	-.0042	.0003	5.794	96.74
Stddev	.0001	.0008	.0003	.0006	.0003	.0032	.0005	.008	.72
%RSD	.3420	1.718	3.992	70.30	1.144	76.51	158.1	.1324	.7448
#1	.0273	.0443	.0081	.0013	.0302	-.0065	.0006	5.799	97.25
#2	.0271	.0454	.0086	.0005	.0307	-.0019	.0000	5.789	96.23
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	7.079	1.331	48.58	278.2	.0349	.0101	.0011	10.93	.0023
Stddev	.029	.022	.00	1.8	.0011	.0002	.0002	.23	.0006
%RSD	.4140	1.669	.0013	.6334	3.037	2.351	21.72	2.096	26.65
#1	7.100	1.347	48.58	279.5	.0342	.0099	.0013	10.77	.0018
#2	7.058	1.315	48.58	277.0	.0357	.0102	.0010	11.09	.0027
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	1.609	.1972	-.0003	-.0014	17.72	-.0014	.0006		
Stddev	.001	.0000	.0007	.0001	.39	.0005	.0005		
%RSD	.0289	.0004	206.0	3.891	2.189	35.78	5.265		
#1	1.608	.1972	.0002	-.0013	17.45	-.0010	.0092		
#2	1.609	.1972	-.0009	-.0014	17.99	-.0018	.0100		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	151420.	29842.	1958.1	5083.5					
Stddev	105.	62.	37.0	98.9					
%RSD	.06904	.20696	1.8878	1.9457					
#1	151490.	29799.	1984.2	5153.4					
#2	151340.	29886.	1932.0	5013.5					

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Sample Name: mp79805-s1 Acquired: 6/3/2014 21:52:28 Type: Unk
 Method: Accutest1(v112) Mode: CONC Corr. Factor: 5.000000
 User: admin Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	2.037	.0531	.0470	.5286	.2195	.2432	.7960	.5519	.0519
Stddev	.005	.0002	.0002	.0059	.0004	.0051	.0005	.0076	.0005
%RSD	.2286	.4500	.3333	1.125	.1996	2.094	.0593	1.382	.9182
#1	2.040	.0529	.0469	.5328	.2192	.2396	.7963	.5573	.0523
#2	2.034	.0533	.0471	.5244	.2198	.2468	.7956	.5465	.0516
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.5251	.6078	2.131	2.113	.5924	2.067	.5128	2.690	233.4
Stddev	.0009	.0064	.037	.046	.0074	.048	.0093	.017	.3
%RSD	.1715	1.060	1.731	2.180	1.247	2.326	1.807	.6447	.1091
#1	.5245	.6124	2.157	2.145	.5976	2.101	.5193	2.702	233.6
#2	.5258	.6033	2.105	2.080	.5871	2.033	.5062	2.678	233.2
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	1.111	43.31	47.88	111.7	.2709	-.0009	.0056	.7418	-.0023
Stddev	.001	.00	.17	.2	.0036	.0005	.0008	.0152	.0004
%RSD	.0654	.0079	.3628	.2034	1.320	61.23	13.88	2.051	19.10
#1	1.110	43.31	48.00	111.9	.2734	-.0005	.0051	.7526	-.0020
#2	1.111	43.31	47.76	111.6	.2684	-.0013	.0062	.7310	-.0026
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.2939	.0033	-.0054	-.0113	.247.8	.0006	.1294		
Stddev	.0009	.0005	.0050	.0010	4.3	.0050	.0029		
%RSD	.3180	16.37	92.48	8.594	1.732	806.4	2.222		
#1	.2945	.0030	-.0019	-.0120	250.9	.0041	.1274		
#2	.2932	.0037	-.0089	-.0106	244.8	-.0029	.1315		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	159860.	30510.	2124.6	5698.0					
Stddev	2107.	16.	26.2	61.9					
%RSD	1.3178	.05092	1.2348	1.0866					
#1	161350.	30499.	2106.0	5654.2					
#2	158370.	30521.	2143.1	5741.7					

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Sample Name: mp79805-s2 Acquired: 6/3/2014 21:58:25 Type: Unk
 Method: Accutest1(v112) Mode: CONC Corr. Factor: 5.000000
 User: admin Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	2.182	.0574	.0571	.5367	.2766	.3320	1.018	.5592	.0646
Stddev	.065	.0017	.0011	.0131	.0812	.1281	.300	.0176	.0187
%RSD	2.977	2.984	1.951	2.443	29.35	38.58	29.50	3.144	28.98
#1	2.136	.0562	.0563	.5275	.3340	.4225	1.231	.5468	.0779
#2	2.228	.0586	.0579	.5460	.2192	.2414	.8059	.5717	.0514
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.6653	.6171	2.158	2.174	.6007	2.088	.5200	2.809	257.1
Stddev	.1951	.0149	.061	.054	.0136	.057	.0099	.125	7.5
%RSD	29.32	2.417	2.841	2.496	2.264	2.746	1.897	4.442	2.923
#1	.8033	.6066	2.115	2.136	.5911	2.048	.5130	2.721	251.8
#2	.5274	.6277	2.201	2.212	.6103	2.129	.5269	2.898	262.4
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	1.190	47.08	52.12	122.2	2.855	.0002	-.0085	.8389	-.0035
Stddev	.030	1.29	1.72	3.8	.0093	.0006	.0067	.0260	.0027
%RSD	2.543	2.748	3.300	3.140	3.258	243.4	79.05	3.099	78.03
#1	1.168	46.17	50.90	119.5	.2790	-.0002	-.0132	.8205	-.0054
#2	1.211	48.00	53.33	124.9	.2921	.0007	-.0037	.8573	-.0016
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.3350	.0026	-.0067	-.0002	257.7	-.0011	1.390		
Stddev	.0103	.0011	.0043	.0006	7.0	.0005	.0074		
%RSD	3.083	42.10	63.87	297.8	2.726	42.80	5.323		
#1	.3277	.0018	-.0037	-.0006	252.8	-.0015	.1337		
#2	.3423	.0033	-.0097	.0002	262.7	-.0008	.1442		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	*****	*****	2103.7	5653.2					
Stddev	-----	-----	46.7	122.5					
%RSD	-----	-----	2.2197	2.1668					
#1	-----	29304.	2136.7	5739.8					
#2	158690.	-----	2070.6	5566.6					

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[Zoom In](#)
[Zoom Out](#)

Sample Name: jb68057-3 Acquired: 6/3/2014 22:04:19 Type: Unk
 Method: Accutest1(v112) Mode: CONC Corr. Factor: 5.000000
 User: admin Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.0050	-.0002	.0000	-.0006	.0013	.0016	.2547	.0041	.0005
Stddev	.0011	.0000	.000	.0012	.0002	.0008	.0000	.0017	.0017
%RSD	22.62	3.070	80.43	211.6	13.64	50.82	.0173	41.13	322.6
#1	.0042	-.0002	-.0001	.0003	.0015	.0022	.2547	.0053	-.0007
#2	.0057	-.0002	.0000	-.0014	.0012	.0010	.2546	.0029	.0018
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0007	.0264	.0161	-.0072	.0085	.0003	-.0006	.5956	216.2
Stddev	.0002	.0001	.0015	.0046	.0017	.0048	.0015	.0026	5.7
%RSD	33.39	.2896	9.390	63.83	19.69	1710.	245.6	.4388	2.626
#1	.0009	.0264	.0151	-.0040	.0097	-.0031	.0004	.5937	212.2
#2	.0006	.0263	.0172	-.0105	.0073	.0036	-.0017	.5974	220.2
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0066	18.20	23.32	88.99	.2832	-.0012	.0059	.8466	-.0031
Stddev	.0068	.45	.42	2.10	.0041	.0001	.0010	.0083	.0011
%RSD	103.4	2.497	1.821	2.362	1.441	6.114	16.96	.9849	36.80
#1	.0018	17.88	23.02	87.50	.2861	-.0012	.0052	.8525	-.0023
#2	.0114	18.52	23.62	90.47	.2803	-.0013	.0066	.8407	-.0039
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.3040	.0018	-.0139	-.0100	257.9	.0009	.1288		
Stddev	.0075	.0001	.0008	.0006	2.9	.0050	.0016		
%RSD	2.470	6.370	5.970	5.855	1.120	580.9	1.213		
#1	.2987	.0017	-.0145	-.0104	259.9	-.0027	.1277		
#2	.3093	.0018	-.0133	-.0095	255.8	.0044	.1299		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	157000.	30653.	2110.3	5667.3					
Stddev	271.	680.	17.2	39.3					
%RSD	.17274	2.2188	.81597	.69373					
#1	156800.	31134.	2098.1	5639.5					
#2	157190.	30172.	2122.5	5695.1					

Sample Name: mp79805-sd1 Acquired: 6/3/2014 22:10:20 Type: Unk
Method: Accutest1(v112) Mode: CONC Corr. Factor: 25.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.0112	-0.004	-0.047	-0.059	.0012	-0.092	.2521	.0082	.0009
Stddev	.0002	.0006	.0032	.0077	.0031	.0038	.0047	.0007	.0088
%RSD	2.114	157.9	67.28	131.3	252.7	40.82	1.874	8.350	1016.

#1	.0110	.0000	-.0069	-.0004	-.0010	-.0066	.2555	.0077	.0071
#2	.0114	-.0008	-.0025	-.0114	.0034	-.0119	.2488	.0087	-.0053

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0035	.1678	.0105	-0.222	.0159	-0.0492	.0283	.6035	214.2
Stddev	.0046	.0015	.0211	.0150	.0055	.0363	.0034	.1137	1.0
%RSD	130.5	.8812	200.6	67.67	34.68	73.77	12.05	18.84	.4871

#1	.0003	.1668	-.0044	-.0116	.0120	-.0235	.0259	.5231	214.9
#2	.0067	.1689	.0255	-.0328	.0198	-.0749	.0307	.6839	213.4

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0817	18.03	23.01	87.16	2.318	-0.011	.0096	1.193	.0024
Stddev	.0565	.08	.12	.12	.0129	.0018	.0180	.020	.0108
%RSD	69.14	.4225	.5030	.1362	5.586	165.8	188.9	1.686	455.8

#1	.0417	18.08	22.93	87.08	.2410	.0002	.0223	1.208	.0100
#2	.1216	17.97	23.09	87.24	.2227	-.0024	-.0032	1.179	-.0053

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Avg	.3022	.0094	-0.0663	-0.106	253.7	.0052	.1231
Stddev	.0023	.0110	.0111	.0011	1.0	.0047	.0076
%RSD	.7710	116.3	16.70	9.932	.3859	90.55	6.171

#1	.3006	.0017	-.0585	-.0099	254.4	.0019	.1178
#2	.3039	.0172	-.0742	-.0114	253.1	.0086	.1285

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	164370.	31410.	2144.7	5779.3
Stddev	1982.	24.	1.8	14.1
%RSD	1.2061	.07670	.08552	.24315

#1	162960.	31393.	2143.4	5769.4
#2	165770.	31427.	2146.0	5789.2

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Sample Name: jb67923-4a 3 Acquired: 6/3/2014 22:22:23 Type: Unk
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Avg	.0326	.0004	.0009	.0102	.4363	.0713	2.300	.2316
Stddev	.0001	.0000	.0000	.0000	.0003	.0001	.009	.0003
%RSD	.3375	4.063	1.572	.4893	.0646	.1684	.3816	.1472

#1	.0325	.0004	.0009	.0102	.4361	.0714	2.294	.2319
#2	.0327	.0003	.0009	.0102	.4365	.0713	2.306	.2314

Elem	Ag3280	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068
Avg	.0056	.0323	3.259	.0291	F -.0220	.7222	.0131	.0105
Stddev	.0009	.0000	.000	.0006	.0001	.0022	.0001	.0001
%RSD	16.21	.1007	.0079	1.936	.6207	.2981	.8492	1.123

#1	.0049	.0323	3.260	.0295	-.0219	.7207	.0132	.0106
#2	.0062	.0323	3.259	.0287	-.0221	.7237	.0131	.0104

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Avg	4.971	3.759	219.0	1.062	2.867	63.76	.0744	.0096
Stddev	.035	.029	1.8	.003	.005	.43	.0003	.0000
%RSD	.7105	.7779	.8364	.2854	.1641	.6803	.4000	.2681

#1	4.946	3.738	217.7	1.060	2.864	63.45	.0746	.0096
#2	4.996	3.780	220.3	1.064	2.870	64.06	.0741	.0097

Elem	Pd3404	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820
Avg	.0105	2.967	.0026	.0493	.2148	.0164	-0.0095	F 549.1
Stddev	.0003	.014	.0003	.0004	.0011	.0009	.0001	1
%RSD	2.460	.4591	12.93	.7131	.5110	5.653	.6287	.0250

#1	.0103	2.977	.0028	.0490	.2140	.0171	-.0096	549.0
#2	.0107	2.957	.0023	.0495	.2156	.0158	-.0095	549.2

Elem	Bi2230	Li6707
Avg	.0177	.0111
Stddev	.0006	.0002
%RSD	3.520	1.994

#1	.0182	.0109
#2	.0173	.0112

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Sample Name: mp79776-mb1conf Acquired: 6/3/2014 22:16:21 Type: Unk
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.0037	.0001	.0000	.0001	.0005	.0019	.0034	.0015	-0.002
Stddev	.0002	.0000	.0000	.0000	.0003	.0009	.0002	.0001	.0002
%RSD	4.408	18.69	282.5	19.25	63.83	49.42	6.568	7.350	78.98

#1	.0036	.0001	.0000	.0001	.0003	.0012	.0032	.0016	-.0003
#2	.0039	.0001	.0000	.0001	.0008	.0026	.0035	.0015	-.0001

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0000	.0054	-0.0005	-0.0010	.0123	.0030	.0019	.0153	.1607
Stddev	.000	.0000	.0002	.0017	.0010	.0006	.0008	.0034	.0047
%RSD	699.9	.5911	36.77	175.0	8.418	21.03	40.49	22.18	2.910

#1	-.0001	.0054	-.0004	-.0002	.0115	.0034	.0013	.0129	.1574
#2	.0001	.0054	-.0006	-.0021	.0130	.0025	.0024	.0177	.1640

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.1841	.0269	.0059	.0872	-0.0016	.0001	.0003	.2094	-0.0001
Stddev	.0059	.0027	.0003	.0038	.0001	.0002	.0003	.0013	.0001
%RSD	3.188	10.08	5.055	4.409	8.494	388.8	127.4	.6242	199.4

#1	.1800	.0250	.0062	.0845	-.0015	-.0001	.0005	.2104	-.0002
#2	.1883	.0288	.0057	.0899	-.0017	.0002	.0000	.2085	.0000

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Avg	.0075	.0004	-0.0020	-0.0001	.8464	-0.0004	.0000
Stddev	.0003	.0003	.0006	.0001	.0073	.0002	.0007
%RSD	3.906	89.61	28.39	49.68	.8610	56.29	1710.

#1	.0073	.0006	-.0016	-.0002	.8515	-.0002	.0005
#2	.0077	.0001	-.0024	-.0001	.8412	-.0006	-.0005

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	159780.	30000.	2154.4	5809.2
Stddev	7604.	1017.	14.4	31.2
%RSD	4.7590	3.3899	.66759	.53662

#1	165160.	30720.	2144.2	5787.2
#2	154410.	29281.	2164.5	5831.3

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Sample Name: jb67923-4a 3 Acquired: 6/3/2014 22:22:23 Type: Unk
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	156520.	29711.	2068.4	5708.7
Stddev	54.	175.	8.6	6.0
%RSD	.03432	.58889	.41655	.10479

#1	156560.	29834.	2062.3	5704.4
#2	156480.	29587.	2074.5	5712.9

Sample Name: ccv Acquired: 6/3/2014 22:28:26 Type: QC
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.028	2.074	2.070	2.101	2.105	1.990	2.170	2.121	2.468
Stddev	.005	.003	.008	.013	.002	.000	.001	.012	.0004
%RSD	.2508	.1611	.4051	.6265	.0942	.0120	.0379	.5769	.1794
#1	2.031	2.077	2.065	2.091	2.104	1.990	2.169	2.112	2.471
#2	2.024	2.072	2.076	2.110	2.107	1.990	2.170	2.130	2.465

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.064	2.146	2.053	2.106	2.116	1.996	2.046	39.99	40.51
Stddev	.002	.016	.010	.000	.011	.001	.011	.16	.16
%RSD	.1139	.7278	.4946	.0139	.5029	.0298	.5292	.3969	.3988
#1	2.062	2.135	2.046	2.105	2.109	1.996	2.038	40.10	40.40
#2	2.065	2.157	2.060	2.106	2.124	1.995	2.053	39.87	40.63

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.57	40.02	39.82	40.06	2.041	2.081	1.983	5.069	2.096
Stddev	.02	.12	.22	.19	.009	.012	.000	.020	.013
%RSD	.0580	.2978	.5499	.4675	.4509	.5959	.0151	.3840	.6215
#1	40.55	39.93	39.97	40.19	2.035	2.072	1.983	5.056	2.087
#2	40.58	40.10	39.66	39.92	2.048	2.090	1.983	5.083	2.105

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

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Sample Name: ccv Acquired: 6/3/2014 22:28:26 Type: QC
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.063	2.088	2.026	2.016	1.988	2.015	1.982
Stddev	.009	.001	.014	.001	.009	.009	.009
%RSD	.4218	.0473	.6729	.0578	.4600	.4594	.4623
#1	2.069	2.088	2.016	2.017	1.982	2.009	1.989
#2	2.057	2.087	2.035	2.015	1.995	2.022	1.976

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	153940.	29759.	2064.2	5483.7
Stddev	164.	49.	4.7	12.8
%RSD	.10647	.16354	.22736	.23280
#1	154050.	29793.	2067.5	5492.7
#2	153820.	29724.	2060.9	5474.7

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Sample Name: ccb Acquired: 6/3/2014 22:34:17 Type: QC
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0001	.0000	.0000	.0002	-.0013	.0001	.0004
Stddev	.0001	.0000	.0000	.000	.0000	.0013	.0000	.0000
%RSD	30.68	48.72	103.7	160.8	5.275	100.0	15.70	8.813
#1	.0003	.0001	.0000	.0000	.0002	-.0004	.0001	.0004
#2	.0002	.0001	.0001	-.0001	.0002	-.0023	.0001	.0004

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Ag3280	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0002	.0008	.0000	-.0005	-.0002	-.0004	.0010
Stddev	.0005	.0003	.0000	.001	.0004	.0006	.0010	.0003
%RSD	314.8	168.7	3.604	6369.	82.22	262.7	240.3	29.03
#1	-.0002	.0000	.0008	.0005	-.0008	-.0006	.0003	.0008
#2	.0005	.0003	.0008	-.0005	-.0002	.0002	-.0012	.0012

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0014	.0039	.0031	.0021	-.0251	.0080	-.0024	.0003
Stddev	.0015	.0016	.0014	.0026	.0042	.0037	.0000	.0000
%RSD	107.4	40.32	43.52	121.5	16.64	45.67	1.675	17.51
#1	-.0025	.0050	.0041	.0039	-.0222	.0054	-.0025	.0002
#2	-.0003	.0028	.0022	.0003	-.0281	.0106	-.0024	.0003

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

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Sample Name: ccb Acquired: 6/3/2014 22:34:17 Type: QC
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pd3404	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0002	.0014	.0009	.0001	.0005	.0020	.0001	W .0092
Stddev	.0006	.0013	.0006	.0000	.0004	.0006	.0000	.0019
%RSD	368.5	93.98	62.60	34.53	72.69	27.84	29.31	20.25
#1	-.0006	.0023	.0005	.0001	.0002	.0024	.0001	.0078
#2	-.0003	.0005	.0014	.0001	.0007	.0016	.0001	.0105

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Warn
High Limit
Low Limit

Elem	Bi2230	Li6707
Units	ppm	ppm
Avg	-.0006	.0002
Stddev	.0004	.0001
%RSD	59.82	32.61
#1	-.0008	.0003
#2	-.0003	.0002

Check ? Chk Pass Chk Pass
High Limit
Low Limit

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	168700.	30722.	2128.4	5704.9
Stddev	14770.	131.	23.1	64.9
%RSD	8.7550	.42633	1.0839	1.1379
#1	158260.	30815.	2112.0	5659.0
#2	179150.	30629.	2144.7	5750.8

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Sample Name: jb67923-5a Acquired: 6/3/2014 22:40:22 Type: Unk
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Avg	.0324	.0010	.0013	.0337	.8280	.0117	2.772	.4229
Stddev	.0004	.0000	.0000	.0000	.0035	.0005	.008	.0006
%RSD	1.137	.0723	.7671	.0290	.4221	4.224	.3040	.1466

#1	.0321	.0010	.0012	.0337	.8255	.0120	2.766	.4224
#2	.0326	.0010	.0013	.0337	.8304	.0113	2.778	.4233

Elem	Ag3280	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068
Avg	.0062	.0463	.5056	.0463	F -.0362	1.185	.0148	.0128
Stddev	.0016	.0002	.0005	.0003	.0012	.001	.0009	.0001
%RSD	26.15	.5030	.0911	.7194	3.183	.0380	5.973	.6939

#1	.0074	.0461	.5060	.0461	-.0370	1.185	.0154	.0127
#2	.0051	.0465	.5053	.0465	-.0354	1.184	.0142	.0129

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Avg	15.87	7.783	281.0	2.285	8.687	158.1	.0866	.0065
Stddev	.03	.004	1.3	.007	.017	1.1	.0009	.0003
%RSD	.1816	.0527	.4565	.3102	.1942	.7161	1.063	5.095

#1	15.85	7.780	281.9	2.280	8.675	158.9	.0872	.0067
#2	15.89	7.786	280.1	2.290	8.699	157.3	.0859	.0062

Elem	Pd3404	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820
Avg	.0181	2.843	.0008	.0919	.7716	.0159	-.0061	F 960.9
Stddev	.0006	.016	.0003	.0004	.0003	.0009	.0002	1.0
%RSD	3.533	.5705	41.71	.4537	.0448	5.602	2.470	.1028

#1	.0185	2.854	.0010	.0916	.7719	.0165	-.0060	961.6
#2	.0176	2.831	.0006	.0922	.7714	.0152	-.0062	960.2

Elem	Bi2230	Li6707
Avg	.0179	.0306
Stddev	.0011	.0001
%RSD	6.090	.4548

#1	.0187	.0307
#2	.0171	.0305

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Sample Name: mp79732-mb1conf Acquired: 6/3/2014 22:46:30 Type: Unk
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.0001	.0000	-.0003	.0000	.0000	.0008	.0001	.0009	.0000
Stddev	.0001	.000	.0000	.0001	.000	.0004	.0001	.0003	.0001
%RSD	122.6	640.4	13.13	263.4	392.9	55.39	52.16	34.84	575.2

#1	.0000	.0000	-.0003	.0000	.0001	.0011	.0001	.0007	.0001
#2	.0001	.0000	-.0003	.0001	-.0002	.0005	.0001	.0011	-.0001

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	-.0001	.0013	.0017	.0031	.0006	-.0057	-.0005	-.0005	-.0042
Stddev	.0001	.0003	.0001	.0003	.0001	.0016	.0004	.0013	.0082
%RSD	206.9	21.00	4.476	8.812	23.12	28.45	76.95	233.6	197.3

#1	.0000	.0011	.0017	.0029	.0005	-.0068	-.0002	.0004	-.0100
#2	-.0001	.0015	.0018	.0033	.0007	-.0045	-.0008	-.0015	.0016

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0077	-.0014	-.0288	.0068	-.0030	-.0005	-.0005	.0098	-.0001
Stddev	.0013	.0001	.0003	.0048	.0006	.0002	.0001	.0005	.0001
%RSD	17.05	8.133	1.185	70.98	18.38	34.10	24.46	5.156	201.9

#1	.0087	-.0013	-.0290	.0034	-.0034	-.0006	-.0006	.0095	.0000
#2	.0068	-.0015	-.0285	.0102	-.0026	-.0003	-.0004	.0102	-.0001

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Avg	.0000	.0007	-.0029	-.0003	.0326	.0008	-.0003
Stddev	.0000	.0002	.0003	.0000	.0045	.0006	.0006
%RSD	8.470	25.84	8.916	9.103	13.95	70.56	179.8

#1	.0000	.0008	-.0027	-.0003	.0358	.0004	-.0007
#2	.0000	.0005	-.0031	-.0002	.0294	.0012	.0001

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	156860.	*****	2161.5	5834.0
Stddev	3638.	-----	25.9	50.6
%RSD	2.3193	-----	1.1994	.86744

#1	154290.	-----	2179.8	5869.7
#2	159430.	32507.	2143.1	5798.2

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Sample Name: jb67923-5a Acquired: 6/3/2014 22:40:22 Type: Unk
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	154500.	29596.	2029.5	5554.5
Stddev	146.	21.	2.3	1.8
%RSD	.09463	.07081	.11204	.03194

#1	154400.	29610.	2027.9	5553.3
#2	154610.	29581.	2031.1	5555.8

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Sample Name: mp79732-s1 1 Acquired: 6/3/2014 22:52:35 Type: Unk
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: epa tl

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Avg	2.188	.0553	.0647	.5792	.2274	.2689	.8841	.5990
Stddev	1.007	.0254	.0022	.0164	.0008	.0010	.0022	.0171
%RSD	46.00	45.94	3.428	2.826	.3514	.3880	.2539	2.857

#1	2.900	.0732	.0632	.5677	.2280	.2682	.8856	.5869
#2	1.477	.0373	.0663	.5908	.2269	.2697	.8825	.6112

Elem	Ag3280	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068
Avg	.0552	.5187	.6354	2.459	2.310	.6410	2.448	.5393
Stddev	.0003	.0000	.0198	.086	.067	.0194	.102	.0210
%RSD	.4624	.0042	3.121	3.485	2.919	3.028	4.152	3.897

#1	.0553	.5187	.6214	2.398	2.263	.6273	2.377	.5244
#2	.0550	.5187	.6494	2.520	2.358	.6548	2.520	.5542

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Avg	2.413	53.99	2.341	58.14	39.39	353.1	2.735	2.251
Stddev	1.115	25.02	1.080	26.75	18.05	169.7	.097	.079
%RSD	46.19	46.34	46.14	46.01	45.82	48.05	3.555	3.487

#1	3.202	71.69	3.105	77.06	52.15	473.0	2.666	2.196
#2	1.625	36.30	1.577	39.23	26.63	233.1	2.803	2.307

Elem	Pd3404	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820
Avg	1.847	3.149	2.246	2.420	2.166	.0066	.0007	.4132
Stddev	.004	.117	.078	1.114	.003	.0012	.0000	1.37
%RSD	.2381	3.714	3.457	46.01	.1304	18.17	5.106	3.319

#1	1.844	3.066	2.191	3.208	2.168	.0057	.0008	40.35
#2	1.850	3.232	2.301	1.633	2.164	.0074	.0007	42.29

Elem	Bi2230	Li6707
Avg	F -.0284	.0053
Stddev	.0018	.0035
%RSD	6.222	65.77

#1	-.0272	.0078
#2	-.0296	.0028

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Sample Name: mp79732-s1 1 Acquired: 6/3/2014 22:52:35 Type: Unk
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: epa tl

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	148030.	*****	1923.1	5011.3
Stddev	158.	----	61.3	138.4
%RSD	.10656	----	3.1861	2.7623
#1	147920.	----	1966.4	5109.2
#2	148140.	----	1879.7	4913.4

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Sample Name: mp79732-s2 Acquired: 6/3/2014 22:58:29 Type: Unk
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Avg	2.166	.0548	.0520	.5593	.2232	.2663	.8680	.5801
Stddev	.004	.0000	.0002	.0025	.0006	.0012	.0019	.0009
%RSD	.1785	.0748	.3416	.4390	.2486	.4428	.2230	.1506
#1	2.169	.0549	.0519	.5575	.2236	.2655	.8694	.5795
#2	2.164	.0548	.0521	.5610	.2228	.2671	.8666	.5807
Elem	Ag3280	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068
Avg	.0579	.5409	.6102	2.351	2.269	.6290	2.413	.5584
Stddev	.0004	.0001	.0020	.011	.004	.0016	.008	.0017
%RSD	.6906	.0140	.3264	.4648	.1646	.2477	.3438	.3051
#1	.0576	.5409	.6088	2.343	2.266	.6279	2.407	.5572
#2	.0582	.5408	.6116	2.359	2.272	.6301	2.419	.5596
Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Avg	2.309	53.49	2.345	57.50	39.09	349.3	2.598	2.217
Stddev	.000	.07	.005	.08	.02	2.4	.008	.010
%RSD	.0004	.1226	.1949	.1321	.0490	.6974	.3153	.4416
#1	2.309	53.44	2.342	57.45	39.07	347.6	2.593	2.210
#2	2.309	53.53	2.348	57.55	39.10	351.0	2.604	2.224
Elem	Pd3404	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820
Avg	1.832	2.950	2.193	2.388	2.123	.0014	-.0033	40.59
Stddev	.005	.014	.009	.001	.000	.0012	.0000	.15
%RSD	.2571	.4696	.3853	.0300	.0049	85.53	.4232	.3808
#1	1.829	2.940	2.187	2.389	2.123	.0022	-.0033	40.48
#2	1.836	2.960	2.199	2.388	2.123	.0006	-.0033	40.70
Elem	Bi2230	Li6707						
Avg	F -.0210	.0051						
Stddev	.0010	.0003						
%RSD	4.862	6.172						
#1	-.0217	.0048						
#2	-.0202	.0053						

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Sample Name: mp79732-s2 Acquired: 6/3/2014 22:58:29 Type: Unk
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	148690.	29742.	1950.0	5090.7
Stddev	394.	61.	9.1	14.9
%RSD	.26476	.20439	.46871	.29290
#1	148410.	29785.	1956.5	5101.3
#2	148970.	29699.	1943.6	5080.2

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Sample Name: jb67783-1 Acquired: 6/3/2014 23:04:25 Type: Unk
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.0322	.0000	-.0001	.0003	.0014	.0040	.2630	.0054	.0001
Stddev	.0011	.000	.0000	.0002	.0002	.0004	.0086	.0000	.0002
%RSD	3.300	2475.	6.187	60.13	10.82	10.30	3.254	.6301	191.1
#1	.0329	.0000	-.0001	.0002	.0013	.0037	.2569	.0054	.0003
#2	.0314	.0000	-.0001	.0005	.0015	.0043	.2690	.0053	.0000
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0023	.0063	.0076	.0019	.0035	-.0070	-.0004	.0757	22.90
Stddev	.0000	.0001	.0003	.0008	.0005	.0013	.0003	.0006	.87
%RSD	1.636	1.766	3.829	42.88	15.53	18.10	83.36	.8499	3.816
#1	.0023	.0062	.0078	.0024	.0039	-.0061	-.0006	.0762	23.52
#2	.0023	.0063	.0074	.0013	.0031	-.0079	-.0002	.0753	22.29
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.9945	25.44	10.19	268.2	.2653	.0013	.0000	.4588	-.0005
Stddev	.0354	.99	.34	9.0	.0028	.0002	.0003	.0060	.0005
%RSD	3.560	3.894	3.324	3.353	1.056	12.30	1140.	1.303	97.20
#1	1.020	26.14	10.43	274.5	.2673	.0015	-.0002	.4630	-.0002
#2	.9694	24.74	9.953	261.8	.2634	.0012	.0003	.4545	-.0009
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.2242	.0012	-.0031	-.0016	34.76	.0013	.0043		
Stddev	.0078	.0001	.0008	.0001	.47	.0005	.0009		
%RSD	3.493	4.811	26.51	4.881	1.344	35.14	19.91		
#1	.2297	.0013	-.0037	-.0017	35.09	.0010	.0049		
#2	.2186	.0012	-.0025	-.0016	34.43	.0016	.0037		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	150380.	30582.	1986.9	5206.2					
Stddev	4655.	931.	19.3	43.7					
%RSD	3.0954	3.0458	.97290	.83911					
#1	153670.	29924.	1973.3	5175.3					
#2	147080.	31241.	2000.6	5237.1					

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Sample Name: mp79732-sd1 Acquired: 6/3/2014 23:10:29 Type: Unk
Method: Accutest1(v112) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.0279	.0000	.0009	.0007	.0011	.0047	.2565	.0063	.0004
Stddev	.0060	.000	.0004	.0011	.0002	.0007	.0004	.0011	.0007
%RSD	21.53	379.3	45.88	143.3	17.84	15.85	.1706	17.87	145.3
#1	.0322	.0000	.0011	.0000	.0013	.0052	.2562	.0071	.0009
#2	.0237	.0000	.0006	.0015	.0010	.0041	.2568	.0055	.0000
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0018	.0098	.0105	.0054	.0063	.0093	.0016	.0682	19.92
Stddev	.0003	.0001	.0038	.0034	.0010	.0035	.0017	.0257	4.39
%RSD	14.28	1.093	36.28	62.83	15.92	37.64	106.0	37.67	22.06
#1	.0016	.0097	.0132	.0030	.0056	.0118	.0028	.0863	23.02
#2	.0020	.0099	.0078	.0078	.0070	.0068	.0004	.0500	16.81
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.8629	22.01	8.486	231.2	2346	.0005	.0022	.4609	.0020
Stddev	.1955	4.69	1.973	48.8	.0016	.0005	.0037	.0037	.0032
%RSD	22.65	21.32	23.25	21.08	.6968	98.88	171.1	.7999	161.2
#1	1.001	25.33	9.881	265.7	.2334	.0001	.0048	.4583	.0003
#2	.7247	18.69	7.091	196.7	.2357	.0008	.0005	.4635	.0043
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.1938	.0020	.0150	.0013	30.38	.0027	.0095		
Stddev	.0405	.0004	.0010	.0009	.28	.0008	.0050		
%RSD	20.89	17.85	6.789	74.42	.9082	30.74	51.88		
#1	.2224	.0018	.0157	.0019	30.19	.0021	.0130		
#2	.1652	.0023	.0142	.0006	30.58	.0033	.0060		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	156220.	*****	2095.2	5596.0					
Stddev	147.	-----	16.3	35.5					
%RSD	.09419	-----	.77562	.63480					
#1	156110.	30032.	2106.7	5621.1					
#2	156320.	-----	2083.7	5570.9					

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Sample Name: mp79781-mb1 2 Acquired: 6/3/2014 23:16:28 Type: Unk
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.0001	.0000	.0001	.0002	.0002	.0001	.0000	.0003	.0002
Stddev	.0001	.0000	.0000	.0001	.0003	.0001	.0000	.0001	.0002
%RSD	91.59	623.2	28.46	68.96	105.6	62.26	480.1	48.26	91.82
#1	.0002	.0000	.0001	.0001	.0001	.0001	.0000	.0004	.0004
#2	.0000	.0000	.0001	.0002	.0004	.0002	.0000	.0002	.0001
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0002	.0003	.0005	.0016	.0008	.0009	.0013	.0030	.0005
Stddev	.0001	.0002	.0003	.0005	.0002	.0024	.0005	.0050	.0004
%RSD	38.26	58.30	53.66	28.45	20.92	272.1	35.41	166.9	89.41
#1	.0002	.0004	.0003	.0013	.0007	.0026	.0010	.0005	.0008
#2	.0003	.0002	.0007	.0019	.0009	.0008	.0017	.0066	.0002
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0019	.0013	.0129	.0246	.0019	.0001	.0005	.0099	.0003
Stddev	.0007	.0139	.0086	.0013	.0004	.0000	.0004	.0002	.0004
%RSD	35.70	1101.	66.52	5.199	21.70	81.39	76.59	2.044	1.411
#1	.0024	.0111	.0068	.0237	.0016	.0000	.0002	.0098	.0003
#2	.0014	.0086	.0189	.0255	.0022	.0001	.0007	.0100	.0003
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0000	.0004	.0012	.0001	.0080	.0003	.0004		
Stddev	.000	.0004	.0002	.0000	.0010	.0002	.0002		
%RSD	6699.	91.80	12.94	5.239	13.01	62.93	47.30		
#1	.0000	.0002	.0013	.0001	.0073	.0004	.0006		
#2	.0000	.0007	.0011	.0001	.0088	.0002	.0003		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	162250.	30796.	2137.3	5772.3					
Stddev	701.	2.	9.4	26.7					
%RSD	.43230	.00775	.44122	.46255					
#1	161760.	30794.	2130.7	5753.4					
#2	162750.	30798.	2144.0	5791.2					

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Sample Name: mp79781-lc1 Acquired: 6/3/2014 23:22:30 Type: Unk
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.4934	.5033	.4959	.4956	.5157	.4588	.5274	.5140	.1890
Stddev	.0003	.0006	.0038	.0049	.0040	.0019	.0016	.0048	.0003
%RSD	.0596	.1155	.7761	.9921	.7761	.4193	.2948	.9304	.1704
#1	.4932	.5028	.4932	.4921	.5185	.4555	.5285	.5106	.1892
#2	.4936	.5037	.4986	.4990	.5129	.4582	.5263	.5174	.1887
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.4941	.5528	.5004	.5156	.5627	.4749	.4859	5.009	5.532
Stddev	.0016	.0043	.0043	.0037	.0047	.0048	.0046	.009	.017
%RSD	.3197	.7719	.8543	.7202	.8396	1.001	.9438	.1832	.2993
#1	.4952	.5498	.4973	.5129	.5594	.4716	.4826	5.015	5.544
#2	.4930	.5558	.5034	.5182	.5661	.4783	.4891	5.003	5.520
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	5.637	5.430	9.917	10.02	.0078	.4947	.0018	.0369	.0002
Stddev	.003	.011	.009	.01	.0003	.0054	.0010	.0006	.0004
%RSD	.0557	.2020	.0936	.0646	3.566	1.087	56.87	1.614	225.8
#1	5.639	5.438	9.924	10.02	.0080	.4908	.0011	.0364	.0001
#2	5.635	5.423	9.911	10.03	.0076	.4985	.0026	.0373	.0004
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0000	.5067	.0038	.0023	.0041	.0064	.0007		
Stddev	.0000	.0018	.0005	.0001	.0001	.0003	.0002		
%RSD	16.90	.3483	13.59	2.408	2.394	4.005	36.40		
#1	.0002	.5080	.0042	.0022	.0040	.0065	.0008		
#2	.0002	.5055	.0034	.0023	.0042	.0062	.0005		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	159910.	30013.	2120.3	5717.8					
Stddev	900.	12.	17.4	44.1					
%RSD	.56260	.03914	.82264	.77073					
#1	159280.	30022.	2132.7	5748.9					
#2	160550.	30005.	2108.0	5686.6					

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Sample Name: jb64500-35 Acquired: 6/3/2014 23:28:22 Type: Unk
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.0002	.0000	.0000	.0001	.0001	.0001	.0000	.0003	.0001
Stddev	.0001	.000	.0002	.0001	.0003	.0006	.000	.0002	.0001
%RSD	43.94	75.30	2265.	167.2	289.5	444.3	586.6	85.49	74.65
#1	.0003	.0000	.0001	.0000	.0003	.0005	.0000	.0004	.0001
#2	.0002	.0000	.0001	.0001	.0001	.0003	.0000	.0001	.0000
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0001	.0005	.0009	.0012	.0003	.0025	.0016	.0063	.0007
Stddev	.0001	.0000	.0012	.0001	.0010	.0003	.0005	.0011	.0005
%RSD	127.6	9.873	131.4	10.19	367.8	13.39	29.64	18.25	67.83
#1	.0000	.0004	.0001	.0011	.0004	.0023	.0019	.0071	.0004
#2	.0002	.0005	.0017	.0013	.0010	.0028	.0012	.0054	.0011
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0027	.0032	.0400	.0190	.0024	.0001	.0006	.0168	.0003
Stddev	.0005	.0016	.0066	.0042	.0002	.0001	.0006	.0000	.0005
%RSD	18.78	49.89	16.57	21.97	10.27	53.30	94.44	.0672	160.8
#1	.0031	.0021	.0447	.0220	.0022	.0002	.0002	.0168	.0006
#2	.0023	.0043	.0353	.0161	.0025	.0001	.0010	.0168	.0000
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0000	.0004	.0032	.0001	.0078	.0010	.0001		
Stddev	.000	.0003	.0004	.0001	.0002	.0013	.0003		
%RSD	1432.	75.04	14.06	53.68	2.066	132.4	300.4		
#1	.0000	.0007	.0035	.0002	.0079	.0019	.0001		
#2	.0000	.0002	.0029	.0001	.0077	.0001	.0003		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	158430.	30866.	2160.1	5828.3					
Stddev	4170.	11.	4.5	17.4					
%RSD	2.6317	.03578	.20771	.29821					
#1	155490.	30874.	2163.3	5840.6					
#2	161380.	30858.	2156.9	5816.0					

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Sample Name: ccv Acquired: 6/3/2014 23:34:26 Type: QC
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.048	2.084	2.083	2.111	2.112	2.015	2.163	2.127	2.496
Stddev	.010	.004	.005	.006	.012	.002	.006	.009	.0007
%RSD	.4909	.1892	.2276	.2764	.5763	.1145	.2725	.4395	.2606
#1	2.041	2.081	2.080	2.106	2.103	2.017	2.159	2.121	2.491
#2	2.055	2.087	2.087	2.115	2.120	2.013	2.167	2.134	2.500

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.074	2.150	2.064	2.134	2.125	2.009	2.066	40.14	40.60
Stddev	.005	.008	.001	.009	.007	.002	.003	.08	.02
%RSD	.2542	.3924	.0294	.4426	.3386	.0970	.1239	.1872	.0588
#1	2.070	2.144	2.064	2.127	2.120	2.007	2.064	40.09	40.59
#2	2.077	2.156	2.065	2.140	2.130	2.010	2.067	40.19	40.62

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.71	40.05	39.98	40.26	2.057	2.098	2.000	5.103	2.113
Stddev	.04	.11	.05	.09	.002	.000	.000	.004	.006
%RSD	.1005	.2786	.1206	.2279	.1012	.0006	.0069	.0701	.2943
#1	40.68	40.13	39.95	40.20	2.056	2.098	2.000	5.100	2.108
#2	40.73	39.97	40.02	40.32	2.059	2.098	2.000	5.105	2.117

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

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Sample Name: ccv Acquired: 6/3/2014 23:34:26 Type: QC
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.074	2.081	2.036	2.018	1.998	2.037	2.006
Stddev	.004	.002	.009	.000	.009	.000	.010
%RSD	.1908	.1070	.4221	.0066	.4553	.0157	.4901
#1	2.071	2.079	2.030	2.018	1.992	2.038	1.999
#2	2.077	2.082	2.042	2.017	2.004	2.037	2.013

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	153210.	29589.	2047.7	5449.6
Stddev	82.	31.	.9	12.3
%RSD	.05336	.10336	.04406	.22575
#1	153270.	29611.	2048.3	5458.3
#2	153150.	29567.	2047.0	5440.9

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Sample Name: ccb Acquired: 6/3/2014 23:40:16 Type: QC
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0001	.0000	.0001	.0002	-.0003	.0001	.0005
Stddev	.0002	.0000	.000	.0000	.0001	.0000	.0000	.0001
%RSD	159.6	25.07	1624.	30.72	29.83	12.38	7.172	19.60
#1	.0003	.0001	-.0001	.0001	.0002	-.0003	.0001	.0004
#2	.0000	.0001	.0001	.0001	.0003	-.0003	.0001	.0005

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Ag3280	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0003	.0008	.0004	-.0005	.0007	-.0004	.0011
Stddev	.0001	.0002	.0001	.0005	.0011	.0013	.0019	.0012
%RSD	49.10	58.40	7.154	117.8	242.9	186.4	473.1	109.0
#1	.0001	.0002	.0008	.0001	-.0013	-.0002	-.0018	.0020
#2	.0002	.0004	.0009	.0008	.0003	.0016	.0010	.0003

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0031	.0028	.0023	.0103	-.0296	.0131	-.0017	.0000
Stddev	.0010	.0038	.0016	.0060	.0003	.0095	.0002	.000
%RSD	33.66	137.3	68.82	58.24	.9005	72.38	12.21	693.9
#1	-.0038	.0055	.0034	.0061	-.0294	.0197	-.0015	.0001
#2	-.0023	.0001	.0012	.0146	-.0298	.0064	-.0018	-.0001

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

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Sample Name: ccb Acquired: 6/3/2014 23:40:16 Type: QC
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pd3404	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0005	.0003	.0001	.0004	.0020	.0002	W .0062
Stddev	.000	.0000	.0007	.0001	.0001	.0005	.0002	.0029
%RSD	305.1	7.300	287.0	68.17	34.89	23.81	113.0	47.35
#1	-.0001	.0005	.0008	.0002	.0003	.0024	.0003	.0041
#2	.0000	.0006	-.0003	.0001	.0005	.0017	.0000	.0083

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Warn
High Limit
Low Limit

Elem	Bi2230	Li6707
Units	ppm	ppm
Avg	-.0005	.0005
Stddev	.0002	.0006
%RSD	41.63	130.8
#1	-.0007	.0009
#2	-.0004	.0000

Check ? Chk Pass Chk Pass
High Limit
Low Limit

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	161540.	30747.	2169.0	5827.5
Stddev	299.	126.	12.5	26.4
%RSD	.18527	.40883	.57822	.45329
#1	161750.	30658.	2160.1	5808.9
#2	161330.	30836.	2177.8	5846.2

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Sample Name: jb67898-4 Acquired: 6/3/2014 23:46:21 Type: Unk
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.0001	.0000	.0000	-.0003	.0003	-.0005	.0000	.0002	.0001
Stddev	.0002	.000	.0001	.0001	.0002	.0002	.0000	.0001	.0005
%RSD	216.8	361.1	169.3	43.45	59.13	40.74	63.34	40.08	550.2
#1	.0003	.0000	.0000	-.0004	.0004	-.0007	.0000	.0001	-.0003
#2	-.0001	.0000	.0001	-.0002	.0001	-.0004	.0000	.0002	.0005
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0000	.0005	-.0006	-.0010	.0000	.0006	.0016	.0005	.0282
Stddev	.0001	.0001	.0011	.0000	.001	.0001	.0000	.0038	.0024
%RSD	187.6	28.12	166.0	4.137	1937.	16.34	.5290	823.5	8.443
#1	.0000	.0004	.0001	-.0010	.0005	.0006	.0016	.0032	.0266
#2	.0001	.0006	-.0014	-.0010	-.0006	.0007	.0016	-.0023	.0299
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0040	.0024	-.0215	.0923	-.0020	.0002	.0004	.0303	.0008
Stddev	.0013	.0168	.0211	.0046	.0001	.0000	.0002	.0008	.0002
%RSD	33.36	710.9	97.90	4.978	6.170	15.79	51.38	2.753	18.56
#1	.0030	.0142	-.0365	.0891	-.0019	.0002	.0003	.0297	.0009
#2	.0049	-.0095	-.0066	.0956	-.0021	.0002	.0006	.0309	.0007
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0001	.0004	-.0001	.0000	.0220	-.0004	.0004		
Stddev	.0000	.0001	.0007	.0000	.0003	.0004	.0004		
%RSD	52.93	31.04	493.2	134.9	1.565	103.0	80.51		
#1	.0001	.0003	.0003	.0001	.0217	-.0007	.0007		
#2	.0000	.0005	-.0006	.0000	.0222	-.0001	.0002		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	164630.	30650.	2142.9	5791.2					
Stddev	2519.	11.	15.1	46.5					
%RSD	1.5299	.03438	.70241	.80265					
#1	166410.	30657.	2153.6	5824.0					
#2	162850.	30643.	2132.3	5758.3					

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Sample Name: jb67976-6 Acquired: 6/3/2014 23:52:24 Type: Unk
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.0003	.0000	.0000	-.0001	.0004	.0007	.0000	.0003	-.0001
Stddev	.0001	.000	.000	.0001	.0000	.0013	.0001	.0001	.0000
%RSD	20.80	31.66	800.6	65.77	6.151	191.6	136.4	20.92	38.41
#1	.0003	.0000	.0001	-.0001	.0004	.0016	.0001	.0003	-.0002
#2	.0004	.0000	-.0001	-.0002	.0004	-.0002	.0000	.0004	-.0001
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0000	.0007	-.0004	-.0010	.0005	.0010	.0011	.0025	.0431
Stddev	.0000	.0000	.0009	.0002	.0003	.0006	.0003	.0029	.0136
%RSD	113.0	2.763	197.1	19.38	61.68	64.99	27.79	115.2	31.60
#1	.0000	.0007	-.0010	-.0011	.0007	.0005	.0009	.0046	.0334
#2	.0001	.0007	.0002	-.0008	.0003	.0014	.0013	.0005	.0527
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0043	.0132	-.0245	.1799	-.0017	.0000	-.0001	.0295	.0010
Stddev	.0001	.0070	.0061	.0116	.0003	.0001	.0005	.0010	.0002
%RSD	1.281	53.34	24.72	6.429	18.13	341.4	703.4	3.358	17.01
#1	.0043	.0082	-.0202	.1717	-.0015	.0000	-.0004	.0288	.0009
#2	.0043	.0181	-.0288	.1881	-.0019	.0001	.0003	.0302	.0012
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0001	.0006	-.0014	.0003	.0086	-.0001	-.0003		
Stddev	.0000	.0002	.0005	.0001	.0005	.0002	.0003		
%RSD	33.62	26.26	38.82	26.85	5.815	238.1	118.6		
#1	.0001	.0005	-.0018	.0004	.0082	.0001	-.0005		
#2	.0001	.0008	-.0010	.0003	.0089	-.0002	.0000		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	153180.	*****	2194.0	5916.4					
Stddev	13043.	-----	46.9	119.2					
%RSD	8.5148	-----	2.1385	2.0140					
#1	143950.	32115.	2227.2	6000.6					
#2	162400.	-----	2160.8	5832.1					

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Sample Name: jb68098-2 Acquired: 6/3/2014 23:58:27 Type: Unk
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.0002	.0000	.0000	-.0001	.0001	.0001	.0001	.0000	-.0002
Stddev	.0000	.000	.0000	.0001	.0005	.0001	.0000	.0001	.0001
%RSD	2.795	17.96	4.652	95.25	351.9	100.3	8.956	849.1	45.46
#1	.0002	.0000	.0000	-.0002	-.0002	.0000	.0000	-.0001	-.0001
#2	.0002	.0000	.0000	.0000	.0005	.0001	.0001	.0001	-.0003
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0001	.0002	-.0016	-.0007	.0004	.0051	.0007	.0013	.0005
Stddev	.0001	.0001	.0004	.0004	.0006	.0004	.0002	.0056	.0019
%RSD	56.66	43.07	23.73	50.44	181.0	6.871	29.47	423.9	415.4
#1	.0002	.0003	-.0018	-.0009	-.0001	.0054	.0008	-.0027	-.0009
#2	.0001	.0002	-.0013	-.0004	.0008	.0049	.0005	.0053	.0018
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0030	.0011	-.0135	.0028	-.0025	.0001	-.0002	.0119	.0010
Stddev	.0007	.0009	.0330	.0009	.0001	.0001	.0007	.0003	.0000
%RSD	23.74	80.48	245.1	31.47	4.204	61.18	374.2	2.149	2.252
#1	.0025	.0018	-.0368	.0022	-.0025	.0002	.0003	.0120	.0011
#2	.0035	.0005	.0099	.0035	-.0024	.0001	-.0006	.0117	.0010
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0000	.0003	-.0015	.0001	.0023	-.0010	.0000		
Stddev	.0001	.0000	.0002	.0000	.0012	.0002	.0005		
%RSD	194.5	13.45	14.06	9.820	51.96	24.76	1083.		
#1	.0001	.0004	-.0016	.0002	.0014	-.0011	-.0003		
#2	.0000	.0003	-.0013	.0001	.0031	-.0008	.0004		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	159700.	30622.	2121.7	5742.5					
Stddev	9.	99.	5.6	4.1					
%RSD	.00584	.32244	.26224	.07099					
#1	159690.	30692.	2117.8	5739.6					
#2	159710.	30552.	2125.7	5745.4					

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Sample Name: jb67897-7 Acquired: 6/4/2014 0:04:31 Type: Unk
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.0005	.0000	-.0001	-.0003	.0002	.0028	.0000	.0001	.0002
Stddev	.0000	.000	.0000	.0001	.0001	.0002	.0000	.0001	.0001
%RSD	1.869	446.9	81.23	23.44	23.24	5.609	50.11	102.5	28.10
#1	.0005	.0000	-.0001	-.0004	.0002	.0030	.0000	.0000	.0002
#2	.0005	.0000	.0000	-.0003	.0003	.0027	.0001	.0002	.0003
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0000	.0035	-.0014	-.0010	.0015	-.0002	.0018	-.0006	.0210
Stddev	.0000	.0001	.0019	.0005	.0002	.0009	.0010	.0029	.0009
%RSD	32.65	1.487	131.7	46.49	13.78	443.1	57.98	502.2	4.188
#1	.0000	.0035	-.0028	-.0013	.0016	.0004	.0010	.0015	.0216
#2	.0000	.0035	-.0001	-.0007	.0013	-.0008	.0025	-.0026	.0204
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0033	.0086	-.0394	.1199	-.0026	.0001	.0000	.0335	.0004
Stddev	.0003	.0077	.0011	.0017	.0002	.0002	.0001	.0012	.0002
%RSD	8.912	80.11	2.910	1.398	7.123	191.6	438.5	3.704	46.06
#1	.0035	.0151	-.0386	.1211	-.0025	.0000	-.0001	.0326	.0003
#2	.0031	.0042	-.0403	.1187	-.0028	.0003	.0001	.0343	.0005
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0001	.0006	-.0026	.0000	.0082	-.0007	.0002		
Stddev	.0000	.0000	.0002	.000	.0002	.0005	.0002		
%RSD	1.866	.6726	8.224	426.0	1.963	67.79	86.98		
#1	.0001	.0006	-.0024	-.0001	.0081	-.0010	.0004		
#2	.0001	.0006	-.0027	.0000	.0084	-.0004	.0001		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	161050.	30931.	2136.9	5769.2					
Stddev	57.	624.	2.4	6.1					
%RSD	.03525	2.0161	.11240	.10510					
#1	161000.	31372.	2135.2	5773.5					
#2	161090.	30490.	2138.6	5764.9					

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Sample Name: jb67912-11a Acquired: 6/4/2014 0:10:35 Type: Unk
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.0002	.0000	.0001	.0001	.0004	.0011	.0002	.0005	.0001
Stddev	.0001	.000	.0001	.0001	.0002	.0016	.0000	.0002	.0000
%RSD	73.01	406.3	92.70	64.61	41.45	140.4	4.822	51.59	29.30
#1	.0003	.0000	.0000	.0001	.0003	.0022	.0002	.0003	.0001
#2	.0001	-.0001	.0002	-.0001	.0006	.0000	.0002	.0006	.0001
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	-.0002	.0013	-.0001	-.0005	.0014	.0016	.0014	.0036	.0207
Stddev	.0000	.0000	.0003	.0003	.0001	.0008	.0005	.0065	.0011
%RSD	11.46	.2138	291.2	74.97	7.945	51.60	34.14	178.9	5.284
#1	-.0002	.0013	-.0003	-.0002	.0013	.0010	.0010	-.0010	.0215
#2	-.0001	.0013	.0001	-.0007	.0015	.0022	.0017	.0083	.0200
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0025	.0108	-.0218	.0892	-.0024	.0000	.0006	.0177	.0013
Stddev	.0014	.0035	.0134	.0013	.0001	.000	.0004	.0013	.0000
%RSD	57.27	32.24	61.24	1.485	5.182	718.1	63.83	7.322	1.653
#1	.0035	.0133	-.0313	.0883	-.0025	-.0002	.0003	.0168	.0013
#2	.0015	.0084	-.0124	.0901	-.0023	.0001	.0009	.0186	.0012
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0001	.0003	-.0033	-.0001	.0056	.0003	.0003		
Stddev	.0000	.0002	.0005	.0002	.0007	.0005	.0005		
%RSD	50.79	78.16	14.35	180.6	12.73	145.8	1439.		
#1	.0000	.0001	-.0037	-.0003	.0061	.0007	.0002		
#2	.0001	.0004	-.0030	.0000	.0051	.0000	-.0002		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	151330.	30840.	2164.0	5830.8					
Stddev	13893.	82.	43.5	111.0					
%RSD	9.1801	.26719	2.0112	1.9034					
#1	141510.	30782.	2194.7	5909.3					
#2	161160.	30899.	2133.2	5752.3					

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Sample Name: jb67981-14 Acquired: 6/4/2014 0:16:39 Type: Unk
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.0002	.0000	-.0001	-.0002	.0001	.0000	.0001	.0003	.0003
Stddev	.0001	.0000	.0001	.0001	.0002	.000	.0000	.0001	.0002
%RSD	71.32	175.5	200.9	40.41	127.7	1084.	19.29	21.18	60.29
#1	.0001	.0000	.0000	-.0002	.0003	.0001	.0001	.0003	.0002
#2	.0002	.0000	-.0002	-.0001	.0000	-.0002	.0001	.0002	.0004
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0000	.0029	-.0014	-.0006	.0009	.0015	.0014	.0009	.0766
Stddev	.0000	.0002	.0005	.0006	.0005	.0006	.0008	.0013	.0036
%RSD	38.05	8.113	35.83	98.50	51.94	36.49	58.95	143.6	4.674
#1	.0001	.0031	-.0017	-.0002	.0006	.0011	.0020	.0018	.0740
#2	.0000	.0027	-.0010	-.0010	.0013	.0019	.0008	.0000	.0791
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0051	.0036	-.0122	.0244	-.0025	.0000	.0000	.0257	.0010
Stddev	.0001	.0155	.0083	.0088	.0002	.0002	.001	.0017	.0000
%RSD	2.096	430.1	67.66	36.13	6.534	3657.	7953.	6.644	4.360
#1	.0050	-.0074	-.0181	.0182	-.0027	.0001	.0006	.0269	.0009
#2	.0052	.0146	-.0064	.0307	-.0024	-.0001	-.0006	.0245	.0010
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0001	.0005	-.0032	.0000	.0182	-.0005	.0007		
Stddev	.0000	.0003	.0004	.000	.0024	.0006	.0005		
%RSD	2.116	49.38	12.11	60.94	12.97	111.3	74.30		
#1	.0001	.0004	-.0029	.0000	.0165	-.0010	.0003		
#2	.0001	.0007	-.0034	.0000	.0199	-.0001	.0011		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	159690.	30826.	2101.3	5686.8					
Stddev	1437.	179.	36.4	92.9					
%RSD	.90014	.57918	1.7305	1.6329					
#1	158670.	30953.	2075.6	5621.1					
#2	160700.	30700.	2127.0	5752.4					

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Sample Name: jb67999-2a Acquired: 6/4/2014 0:22:44 Type: Unk
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.0002	.0000	-.0001	.0000	.0004	.0000	.0001	.0003	.0002
Stddev	.0001	.000	.0000	.0000	.0000	.000	.000	.0001	.0003
%RSD	84.67	308.9	1.150	116.7	7.348	419.9	11.59	34.13	164.1
#1	.0001	.0000	-.0001	.0001	.0004	-.0001	.0001	.0004	.0004
#2	.0003	.0000	-.0001	.0000	.0004	-.0001	.0001	.0002	.0000
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0000	.0008	-.0009	.0000	.0006	.0000	.0017	.0010	.0186
Stddev	.000	.0000	.0004	.000	.0003	.0011	.0001	.0022	.0007
%RSD	1912.	3.255	41.32	236.6	45.60	2598.	3.219	209.8	3.730
#1	.0000	.0009	-.0011	-.0001	.0004	-.0007	.0017	-.0005	.0181
#2	.0000	.0008	-.0006	.0000	.0008	.0008	.0016	.0026	.0191
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0074	.0072	-.0364	.0113	-.0029	-.0001	.0001	.0259	.0005
Stddev	.0009	.0055	.0304	.0044	.0005	.0001	.0001	.0001	.0006
%RSD	11.67	76.29	83.46	39.00	16.73	89.27	64.23	.4201	128.5
#1	.0080	.0033	-.0578	.0144	-.0026	.0000	.0002	.0259	.0000
#2	.0067	.0111	-.0149	.0082	-.0033	-.0001	.0001	.0260	.0009
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0001	.0007	-.0025	-.0001	.0033	-.0009	-.0001		
Stddev	.0000	.0001	.0002	.0000	.0001	.0001	.0003		
%RSD	9.314	13.52	9.735	24.61	3.208	15.10	259.3		
#1	.0001	.0006	-.0023	-.0002	.0034	-.0008	-.0003		
#2	.0001	.0008	-.0026	-.0001	.0032	-.0010	.0001		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	159960.	30768.	2165.5	5839.4					
Stddev	2330.	160.	40.1	111.7					
%RSD	1.4564	.52079	1.8512	1.9123					
#1	161610.	30881.	2137.1	5760.4					
#2	158310.	30654.	2193.8	5918.3					

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Sample Name: jb68102-1a Acquired: 6/4/2014 0:28:48 Type: Unk
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	
Avg	.0002	.0000	.0000	-.0005	.0005	-.0002	.0002	.0009	
Stddev	.0002	.000	.000	.0004	.0000	.0001	.0000	.0013	
%RSD	95.77	9.955	762.8	83.95	2.299	56.24	22.35	146.9	
#1	.0004	.0000	.0001	-.0007	.0005	-.0001	.0002	.0018	
#2	.0001	.0000	-.0001	-.0002	.0005	-.0002	.0002	.0000	
Elem	Ag3280	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	
Avg	.0000	.0001	.0011	-.0020	F -.0022	-.0005	.0037	.0019	
Stddev	.0001	.0000	.0000	.0002	.0031	.0009	.0023	.0012	
%RSD	416.2	5.633	.9449	9.990	139.5	169.6	60.84	59.89	
#1	-.0001	.0001	.0011	-.0021	-.0044	-.0011	.0053	.0027	
#2	.0001	.0001	.0011	-.0018	.0000	.0001	.0021	.0011	
Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	
Avg	.0068	.0258	.0208	-.0070	-.0518	.0171	-.0034	.0000	
Stddev	.0056	.0123	.0034	.0024	.0052	.0054	.0006	.0000	
%RSD	83.41	47.77	16.47	33.86	9.949	31.60	18.84	160.4	
#1	.0028	.0344	.0232	-.0086	-.0554	.0210	-.0029	.0001	
#2	.0107	.0171	.0183	-.0053	-.0482	.0133	-.0038	.0000	
Elem	Pd3404	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	
Avg	.0001	.0410	.0003	.0000	.0016	-.0027	-.0001	.0053	
Stddev	.0003	.0053	.0005	.0000	.0003	.0004	.0000	.0024	
%RSD	203.6	12.81	150.4	122.2	19.67	13.97	20.88	46.21	
#1	.0003	.0447	.0007	.0001	.0014	-.0029	-.0001	.0035	
#2	-.0001	.0373	.0000	.0000	.0018	-.0024	-.0001	.0070	
Elem	Bi2230	Li6707							
Avg	-.0001	.0007							
Stddev	.0007	.0006							
%RSD	616.0	94.62							
#1	-.0006	.0011							
#2	.0004	.0002							

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Sample Name: jb68102-1a Acquired: 6/4/2014 0:28:48 Type: Unk
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	162670.	*****	*****	*****
Stddev	430.	-----	-----	-----
%RSD	.26403	-----	-----	-----
#1	162370.	-----	-----	-----
#2	162980.	30959.	2147.9	5818.4

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Sample Name: mp79779-mb1conf Acquired: 6/4/2014 0:34:51 Type: Unk
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.0000	.0000	-.0001	-.0001	.0000	.0012	.0001	.0001	.0001
Stddev	.0001	.0000	.0001	.0001	.000	.0000	.0000	.0000	.0002
%RSD	570.3	97.03	121.4	149.2	359.6	1.603	31.74	11.76	183.3
#1	.0001	.0000	.0000	.0000	.0000	.0012	.0001	.0001	.0002
#2	-.0001	.0000	-.0001	.0000	.0000	.0012	.0001	.0001	.0000
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0003	.0011	.0004	-.0008	.0007	.0010	.0009	.0000	.0044
Stddev	.0002	.0001	.0006	.0003	.0004	.0009	.0003	.003	.0009
%RSD	81.40	7.582	141.9	33.05	58.13	96.88	27.33	10610.	20.42
#1	.0001	.0010	.0008	-.0006	.0009	.0003	.0011	.0021	.0037
#2	.0004	.0011	.0000	-.0010	.0004	.0016	.0007	-.0021	.0050
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0037	.0016	-.0556	.0025	-.0031	-.0001	.0006	.0031	.0005
Stddev	.0004	.0160	.0283	.0025	.0004	.0001	.0002	.0009	.0004
%RSD	9.481	997.2	50.83	100.2	12.83	118.1	27.07	2.313	87.45
#1	.0040	-.0097	-.0356	.0043	-.0033	-.0002	.0005	.0365	.0002
#2	.0035	.0130	-.0756	.0007	-.0028	.0000	.0007	.0377	.0007
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0000	.0004	-.0029	.0001	.0049	-.0005	.0001		
Stddev	.0000	.0000	.0000	.0001	.0012	.0004	.0000		
%RSD	427.6	6.863	.2790	92.42	24.26	71.46	30.20		
#1	.0000	.0003	-.0029	.0001	.0058	-.0008	.0001		
#2	.0000	.0004	-.0029	.0000	.0041	-.0002	.0000		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	162100.	31325.	2144.4	5810.3					
Stddev	164.	1464.	10.4	24.5					
%RSD	.10129	4.6730	.48279	.42157					
#1	161980.	32360.	2151.7	5827.6					
#2	162210.	30290.	2137.0	5793.0					

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Sample Name: ccv Acquired: 6/4/2014 0:40:56 Type: QC
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.036	2.082	2.073	2.095	2.081	2.002	2.118	2.117	2.488
Stddev	.000	.003	.006	.004	.003	.007	.005	.004	.0001
%RSD	.0132	.1366	.2721	.2006	.1618	.3299	.2557	.2017	.0209
#1	2.036	2.084	2.069	2.092	2.084	1.998	2.122	2.114	2.488
#2	2.035	2.080	2.077	2.098	2.079	2.007	2.114	2.120	2.489

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.054	2.138	2.059	2.117	2.106	2.041	2.061	39.56	40.68
Stddev	.001	.005	.007	.009	.004	.006	.007	.04	.13
%RSD	.0687	.2417	.3204	.4062	.1779	.3090	.3595	.0972	.3078
#1	2.055	2.135	2.054	2.110	2.104	2.037	2.055	39.53	40.77
#2	2.053	2.142	2.064	2.123	2.109	2.045	2.066	39.58	40.60

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.50	40.01	39.39	39.82	2.052	2.094	1.987	5.078	2.111
Stddev	.08	.12	.05	.03	.004	.006	.004	.013	.005
%RSD	.1889	.3005	.1239	.0638	.1851	.2704	.2271	.2475	.2495
#1	40.56	40.09	39.36	39.80	2.050	2.090	1.983	5.069	2.107
#2	40.45	39.92	39.43	39.84	2.055	2.098	1.990	5.087	2.115

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

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Sample Name: ccv Acquired: 6/4/2014 0:40:56 Type: QC
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.047	2.037	2.029	1.973	2.002	2.031	1.988
Stddev	.002	.001	.015	.001	.004	.007	.002
%RSD	.1138	.0592	.7146	.0441	.2014	.3605	.0842
#1	2.045	2.038	2.019	1.972	1.999	2.025	1.987
#2	2.049	2.036	2.039	1.973	2.005	2.036	1.989

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	154710.	29656.	2053.3	5477.2
Stddev	1.	9.	6.0	13.5
%RSD	.00093	.03179	.24160	.24560
#1	154700.	29663.	2056.8	5486.7
#2	154710.	29650.	2049.8	5467.7

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Sample Name: ccb Acquired: 6/4/2014 0:46:46 Type: QC
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0001	-0.001	.0000	.0003	.0000	.0001	.0005	.0001
Stddev	.0000	.0000	.0000	.0003	.0002	.0001	.0000	.0002	.0001
%RSD	14.40	34.82	30.14	4605.	72.64	326.0	18.41	38.50	201.5
#1	.0002	.0002	-0.001	.0002	.0002	.0001	.0001	.0006	.0000
#2	.0002	.0001	-0.001	-0.002	.0005	-0.001	.0001	.0003	.0001

Check ? High Limit Low Limit
Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0009	-0.004	-0.002	.0005	-0.0028	.0006	-0.0021	.0062
Stddev	.0001	.0000	.0003	.0001	.0012	.0004	.0008	.0001	.0021
%RSD	30.35	3.102	74.93	43.47	254.4	15.16	126.6	5.764	34.47
#1	.0003	.0009	-0.002	-0.001	-0.004	-0.0025	.0011	-0.0022	.0077
#2	.0002	.0008	-0.006	-0.003	.0014	-0.0031	.0001	-0.0020	.0047

Check ? High Limit Low Limit
Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0032	.0083	-0.0209	.0080	-0.0019	.0001	.0000	.0001	-0.0001
Stddev	.0000	.0052	.0126	.0048	.0001	.0001	.000	.0001	.0003
%RSD	.5278	62.50	60.30	60.29	6.198	89.45	82.14	102.8	207.3
#1	.0032	.0047	-0.0120	.0046	-0.0019	.0001	.0000	.0000	.0001
#2	.0032	.0120	-0.0298	.0114	-0.0020	.0002	.0000	.0002	-0.0003

Check ? High Limit Low Limit
Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

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Sample Name: ccb Acquired: 6/4/2014 0:46:46 Type: QC
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0003	.0037	.0001	.0014	.0004	.0010
Stddev	.0000	.0001	.0011	.0002	.0011	.0001	.0001
%RSD	17.16	25.04	28.60	108.7	77.66	25.75	5.301
#1	.0001	.0004	.0045	.0000	.0021	.0004	.0011
#2	.0002	.0003	.0030	.0003	.0006	.0005	.0010

Check ? High Limit Low Limit
Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	161570.	29950.	2170.7	5836.7
Stddev	309.	807.	3.4	10.3
%RSD	.19104	2.6931	.15665	.17654
#1	161350.	29379.	2173.1	5844.0
#2	161790.	30520.	2168.3	5829.4

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Sample Name: jb67931-3f 2 Acquired: 6/4/2014 0:52:51 Type: Unk
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Avg	.1942	.0000	.0001	.0002	.0000	.0004	1.011	.0007
Stddev	.0098	.0000	.0001	.0000	.0002	.0003	.000	.0002
%RSD	5.067	192.1	149.2	3.239	2196.	73.48	.0214	30.11
#1	.2012	.0000	.0002	.0002	-0.0001	.0002	1.011	.0005
#2	.1873	.0000	.0000	.0002	.0002	.0006	1.011	.0008

Elem	Ag3280	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068
Avg	-0.0007	.0000	.0013	.0169	F -0.0025	.0009	.0008	-0.0002
Stddev	.0016	.000	.0006	.0009	.0020	.0004	.0002	.0002
%RSD	216.1	152.9	43.32	5.120	78.68	44.72	31.18	105.0
#1	-0.0018	-0.0001	.0017	.0163	-0.0011	.0006	.0006	.0004
#2	.0004	.0000	.0009	.0175	-0.0039	.0012	.0010	.0001

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Avg	.0497	22.00	4.935	7.612	1.757	27.44	.0380	.0002
Stddev	.0008	1.23	.257	.425	.110	1.37	.0002	.0001
%RSD	1.612	5.575	5.212	5.584	6.267	4.987	.5182	58.89
#1	.0491	22.87	5.117	7.913	1.835	28.41	.0382	.0003
#2	.0502	21.14	4.753	7.312	1.679	26.47	.0379	.0001

Elem	Pd3404	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820
Avg	.0001	6.670	-0.0004	.1255	.0004	-0.0004	-0.0007	7.476
Stddev	.0005	.028	.0007	.0069	.0005	.0010	.0006	.036
%RSD	692.7	.4263	150.9	5.464	137.2	247.4	86.63	.4807
#1	-0.0003	6.690	.0000	.1303	.0007	-0.0011	-0.0003	7.502
#2	.0004	6.650	-0.0009	.1206	.0000	.0003	-0.0011	7.451

Elem	Bi2230	Li6707
Avg	-0.0006	.0127
Stddev	.0001	.0005
%RSD	12.14	3.860
#1	-0.0007	.0130
#2	-0.0006	.0123

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Sample Name: jb67931-3f 2 Acquired: 6/4/2014 0:52:51 Type: Unk
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	157720.	*****	2093.2	5667.9
Stddev	398.	-----	5.1	18.1
%RSD	.25265	-----	.24586	.31918
#1	158000.	-----	2089.5	5655.1
#2	157440.	30019.	2096.8	5680.7

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Sample Name: jb67959-6 Acquired: 6/4/2014 0:58:49 Type: Unk
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.0773	.0005	.0005	.0021	.0208	.0726	.0552	.0081	.0012
Stddev	.0000	.0000	.0000	.0001	.0001	.0003	.0002	.0030	.0002
%RSD	.0335	3.350	6.004	3.759	.7134	.4055	.2841	37.72	13.53
#1	.0774	.0005	.0005	.0021	.0207	.0724	.0553	.0059	.0013
#2	.0773	.0005	.0005	.0020	.0209	.0729	.0551	.0102	.0011
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0333	.0753	.0169	-.0017	.0213	.0073	.0010	14.83	83.62
Stddev	.0001	.0483	.0007	.0013	.0029	.0005	.0004	.05	.01
%RSD	.1784	64.12	4.194	75.18	13.66	7.001	45.76	.3133	.0146
#1	.0334	.0412	.0164	-.0008	.0192	.0070	.0013	14.79	83.63
#2	.0333	.1094	.0174	-.0026	.0233	.0077	.0007	14.86	83.61
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	21.38	15.17	4.741	551.8	.0484	.0467	.0057	13.19	-.0009
Stddev	.02	.01	.009	3.7	.0006	.0001	.0011	.04	.0002
%RSD	.1087	.0527	.1835	.6727	1.300	.1674	19.06	.3003	19.27
#1	21.36	15.16	4.735	549.2	.0480	.0467	.0049	13.22	-.0010
#2	21.39	15.17	4.748	554.4	.0489	.0468	.0064	13.16	-.0008
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.4865	.0879	-.0002	.0343	17.22	-.0010	.0041		
Stddev	.0013	.0003	.0002	.0001	.06	.0003	.0005		
%RSD	.2633	.3330	155.1	.3218	.3625	34.49	11.98		
#1	.4856	.0882	-.0003	.0343	17.18	-.0007	.0045		
#2	.4874	.0877	.0000	.0344	17.27	-.0012	.0038		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	148290.	29726.	1976.2	4965.6					
Stddev	257.	13.	24.1	37.3					
%RSD	.17342	.04236	1.2205	.75085					
#1	148470.	29717.	1959.2	4939.2					
#2	148110.	29735.	1993.3	4992.0					

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Sample Name: mp79672-mb4 3 Acquired: 6/4/2014 1:04:52 Type: Unk
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.0035	.0000	.0001	.0003	.0021	.0024	.0202	.0043	.0000
Stddev	.0003	.0000	.0001	.0000	.0001	.0001	.0000	.0002	.0001
%RSD	9.176	67.97	208.7	13.42	2.900	5.880	.0355	3.800	318.1
#1	.0032	.0000	.0001	.0002	.0020	.0025	.0202	.0041	.0001
#2	.0037	.0000	.0000	.0003	.0021	.0023	.0201	.0044	.0000
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0001	.0104	-.0007	-.0014	.0011	.0033	.0008	.0707	5.443
Stddev	.0002	.0000	.0011	.0000	.0001	.0000	.0009	.0047	.013
%RSD	165.2	.2312	159.2	1.626	8.665	.5703	110.6	6.695	2471
#1	.0003	.0104	-.0015	-.0014	.0011	.0033	.0015	.0674	5.433
#2	.0000	.0104	.0001	-.0014	.0012	.0033	.0002	.0741	5.452
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0637	.2982	.0529	1.348	.0354	.0000	.0000	2.191	.0002
Stddev	.0019	.0024	.0078	.005	.0004	.0002	.000	.009	.0000
%RSD	2.932	.8052	14.69	.3826	1.174	515.4	470.3	.4221	30.24
#1	.0651	.2999	.0584	1.345	.0357	.0002	.0001	2.197	.0001
#2	.0624	.2965	.0474	1.352	.0351	-.0001	-.0001	2.184	.0002
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0520	.0014	-.0026	.0000	.9840	-.0012	.0015		
Stddev	.0001	.0001	.0002	.000	.0052	.0002	.0000		
%RSD	.2612	8.469	5.846	58.83	.5308	15.89	2.662		
#1	.0521	.0013	-.0025	.0000	.9877	-.0013	.0016		
#2	.0519	.0014	-.0027	.0000	.9804	-.0011	.0015		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	160910.	30467.	2132.1	5813.2					
Stddev	57.	116.	8.1	16.0					
%RSD	.03515	.38190	.37892	.27555					
#1	160870.	30549.	2126.4	5801.9					
#2	160950.	30385.	2137.8	5824.5					

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Sample Name: mp79672-lc2 Acquired: 6/4/2014 1:10:52 Type: Unk
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.5015	.5122	.5089	.5029	.5320	.4834	.5388	.5222	.1973
Stddev	.0209	.0199	.0018	.0028	.0014	.0017	.0007	.0026	.0002
%RSD	4.163	3.880	.3629	.5529	.2630	.3443	.1298	.4915	.1259
#1	.4868	.4982	.5076	.5010	.5310	.4846	.5383	.5204	.1975
#2	.5163	.5263	.5102	.5049	.5330	.4822	.5392	.5240	.1972
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.5119	.5576	.5121	.5275	.5698	.5048	.5012	5.001	5.592
Stddev	.0007	.0012	.0012	.0007	.0012	.0028	.0002	.196	.227
%RSD	.1387	.2085	.2353	.1272	.2174	.5525	.0477	3.918	4.056
#1	.5114	.5568	.5112	.5270	.5689	.5028	.5010	4.862	5.431
#2	.5124	.5584	.5129	.5280	.5707	.5068	.5014	5.139	5.752
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	5.681	5.428	9.923	10.11	.0015	.5111	.0007	.0049	.0008
Stddev	.221	.200	.368	.39	.0006	.0009	.0001	.0001	.0009
%RSD	3.898	3.685	3.712	3.896	38.80	.1784	12.72	2.331	115.1
#1	5.524	5.287	9.663	9.836	.0019	.5105	.0007	.0049	.0014
#2	5.837	5.569	10.18	10.39	.0011	.5118	.0006	.0050	.0001
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	-.0002	.5202	-.0024	.0002	.0015	-.0074	.0007		
Stddev	.0000	.0004	.0000	.0002	.0000	.0009	.0001		
%RSD	10.09	.0837	1.454	68.20	.3184	11.95	20.14		
#1	-.0001	.5205	.0023	.0001	.0015	-.0080	.0006		
#2	-.0002	.5199	.0024	.0004	.0015	-.0068	.0008		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	158590.	30527.	2110.0	5747.7					
Stddev	129.	925.	1.3	10.9					
%RSD	.08126	3.0296	.05974	.18999					
#1	158680.	31181.	2110.9	5755.4					
#2	158500.	29873.	2109.2	5740.0					

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Sample Name: jb67698-18 Acquired: 6/4/2014 1:16:43 Type: Unk
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	
Avg	.0528	.0009	.0005	.0035	.0292	.0090	.0438	.0079	
Stddev	.0001	.0000	.0001	.0001	.0001	.0001	.0003	.0001	
%RSD	.2422	3.196	25.05	2.741	.2631	.5577	.7922	1.186	
#1	.0529	.0009	.0004	.0034	.0292	.0089	.0435	.0078	
#2	.0527	.0010	.0006	.0036	.0293	.0090	.0440	.0080	
Elem	Ag3280	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	
Avg	.0018	.0393	.0374	.0134	F -.0075	.0159	.0026	.0021	
Stddev	.0002	.0001	.0002	.0006	.0009	.0003	.0011	.0007	
%RSD	13.91	.3093	.5952	4.816	11.91	2.188	44.06	33.66	
#1	.0020	.0392	.0372	.0139	-.0069	.0156	.0018	.0026	
#2	.0016	.0394	.0376	.0130	-.0081	.0161	.0034	.0016	
Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	
Avg	16.01	2.111	19.18	1.710	1.796	2.288	.0825	.0004	
Stddev	.05	.000	.00	.010	.023	.016	.0001	.0001	
%RSD	.2892	.0022	.0148	.5689	1.266	.6958	.1177	23.69	
#1	16.04	2.111	19.18	1.703	1.780	2.297	.0825	.0003	
#2	15.98	2.111	19.17	1.717	1.812	2.275	.0824	.0005	
Elem	Pd3404	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	
Avg	.0016	22.76	-.0022	.0083	.2208	.0001	.0009	1.115	
Stddev	.0010	.02	.0002	.0000	.0011	.0004	.0000	.007	
%RSD	59.12	.1093	10.63	.1510	.5113	363.6	4.365	.6225	
#1	.0023	22.78	-.0023	.0083	.2200	.0004	.0010	1.120	
#2	.0009	22.74	-.0020	.0083	.2216	-.0002	.0009	1.110	
Elem	Bi2230	Li6707							
Avg	-.0035	.0116							
Stddev	.0000	.0003							
%RSD	1.290	3.006							
#1	-.0035	.0118							
#2	-.0035	.0113							

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Sample Name: jb67698-18 Acquired: 6/4/2014 1:16:43 Type: Unk
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	161770.	30927.	2135.1	5777.7
Stddev	546.	13.	4.	1.
%RSD	.33752	.04054	.02071	.00251
#1	162150.	30918.	2134.8	5777.6
#2	161380.	30936.	2135.4	5777.8

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Sample Name: jb67698-34 Acquired: 6/4/2014 1:22:42 Type: Unk
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Avg	.0197	.0001	.0001	.0008	.0051	.0150	.0288	.0040
Stddev	.0014	.0000	.0000	.0000	.0001	.0001	.0002	.0000
%RSD	7.209	8.806	30.44	3.620	2.393	.9680	.5599	.4084
#1	.0207	.0001	.0001	.0008	.0050	.0149	.0287	.0040
#2	.0187	.0001	.0002	.0008	.0052	.0151	.0289	.0040
Elem	Ag3280	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068
Avg	.0006	.0073	.0146	.0015	F -.0026	.0203	.0032	.0011
Stddev	.0002	.0000	.0001	.0003	.0009	.0001	.0002	.0000
%RSD	34.51	.3716	.6893	18.45	32.95	.3850	4.821	1.765
#1	.0008	.0073	.0145	.0013	-.0032	.0203	.0033	.0011
#2	.0005	.0073	.0146	.0017	-.0020	.0202	.0031	.0011
Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Avg	2.021	7.001	3.429	1.503	2.422	1.212	.0347	.0005
Stddev	.133	.438	.224	.107	.172	.071	.0001	.0000
%RSD	6.576	6.249	6.530	7.086	7.081	5.842	.2822	1.570
#1	2.115	7.311	3.587	1.578	2.543	1.262	.0348	.0005
#2	1.927	6.692	3.271	1.428	2.301	1.161	.0347	.0005
Elem	Pd3404	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820
Avg	.0008	5.478	.0000	.0289	.0531	-.0026	.0003	1.148
Stddev	.0006	.038	.001	.0018	.0000	.0005	.0000	.002
%RSD	75.70	.6988	2830.	6.201	.0823	18.20	7.446	.1383
#1	.0004	5.451	-.0005	.0302	.0531	-.0029	.0003	1.147
#2	.0012	5.505	.0005	.0276	.0530	-.0023	.0003	1.149
Elem	Bi2230	Li6707						
Avg	-.0011	.0016						
Stddev	.0005	.0001						
%RSD	44.58	5.229						
#1	-.0007	.0015						
#2	-.0014	.0016						

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Sample Name: jb67698-34 Acquired: 6/4/2014 1:22:42 Type: Unk
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	160840.	31463.	2115.1	5757.2
Stddev	196.	1673.	14.4	34.2
%RSD	.12203	5.3179	.68079	.59467
#1	160970.	30280.	2125.2	5781.4
#2	160700.	32646.	2104.9	5733.0

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Sample Name: mp79718-mb1 3 Acquired: 6/4/2014 1:28:41 Type: Unk
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.0045	.0000	.0000	.0000	.0001	.0008	.0048	.0036	.0001
Stddev	.0002	.0000	.0000	.000	.0001	.0002	.0000	.0002	.0001
%RSD	4.188	44.88	51.25	291.8	50.39	19.07	.2488	4.838	109.7
#1	.0046	.0000	.0000	-.0001	.0002	.0009	.0048	.0035	.0000
#2	.0043	.0001	.0000	.0000	.0001	.0007	.0048	.0037	.0002
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	-.0002	.0038	-.0005	-.0018	.0014	.0015	.0016	.0000	.2813
Stddev	.0001	.0001	.0002	.0002	.0000	.0005	.0001	.0016	.0011
%RSD	65.52	2.248	35.65	13.34	.9040	33.43	7.671	22950.	.3883
#1	-.0002	.0039	-.0007	-.0016	.0014	.0011	.0015	.0012	.2805
#2	-.0001	.0038	-.0004	-.0020	.0014	.0018	.0017	-.0011	.2821
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0058	.0831	-.0220	.6029	-.0012	.0001	.0000	2.332	-.0001
Stddev	.0010	.0117	.0376	.0040	.0003	.0002	.0007	.014	.0002
%RSD	17.66	14.07	170.9	.6581	25.69	152.5	2685.	.6008	150.0
#1	.0065	.0749	.0046	.6057	-.0014	.0002	.0005	2.341	-.0003
#2	.0051	.0914	-.0486	.6001	-.0010	.0000	-.0004	2.322	.0000
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0257	.0000	-.0027	-.0004	.0022	-.0008	.0008		
Stddev	.0001	.0002	.0007	.0001	.0012	.0005	.0002		
%RSD	.2417	461.2	26.92	31.88	55.81	59.67	31.83		
#1	.0256	-.0001	-.0022	-.0003	.0013	-.0005	.0009		
#2	.0257	.0002	-.0032	-.0005	.0031	-.0011	.0006		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	159440.	30120.	2110.2	5748.8					
Stddev	86.	13.	9.2	9.5					
%RSD	.05403	.04271	.43737	.16525					
#1	159500.	30111.	2103.7	5742.1					
#2	159380.	30129.	2116.7	5755.5					

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Sample Name: mp79718-b1 Acquired: 6/4/2014 1:34:42 Type: Unk
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	2.049	.0538	.0479	.5260	.2189	.2429	.5616	.5468	.0422
Stddev	.002	.0000	.0002	.0027	.0005	.0008	.0017	.0028	.0002
%RSD	.1095	.0705	.3587	.5044	.2302	.3395	.3030	.5068	.5264
#1	2.051	.0539	.0478	.5241	.2192	.2423	.5628	.5448	.0420
#2	2.048	.0538	.0480	.5279	.2185	.2435	.5604	.5487	.0424
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.5200	.5791	2.112	2.171	2.397	2.087	.5197	2.057	.2413
Stddev	.0006	.0030	.011	.010	.012	.009	.0004	.009	.0017
%RSD	.1218	.5245	.5157	.4476	.5056	.4170	.0749	.4591	.7084
#1	.5204	.5770	2.104	2.164	2.388	2.081	.5195	2.064	.2426
#2	.5195	.5813	2.119	2.178	2.405	2.093	.5200	2.050	.2401
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	1.112	.0977	-.0076	.7232	-.0016	.0011	.0002	2.829	.0004
Stddev	.006	.0008	.0053	.0005	.0004	.0000	.0003	.011	.0001
%RSD	.5876	.8640	70.57	.0736	23.60	1.586	187.6	.3814	21.25
#1	1.116	.0971	-.0113	.7228	-.0019	.0011	-.0001	2.821	.0004
#2	1.107	.0983	-.0038	.7235	-.0014	.0011	.0004	2.837	.0003
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0264	.0013	.0006	-.0018	.0029	-.0030	.0006		
Stddev	.0001	.0002	.0008	.0001	.0002	.0007	.0003		
%RSD	.2117	18.15	150.7	6.971	5.250	24.42	43.67		
#1	.0264	.0011	.0000	-.0017	.0030	-.0025	.0004		
#2	.0263	.0015	.0012	-.0019	.0028	-.0035	.0008		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	159370.	30111.	2097.4	5718.8					
Stddev	587.	62.	4.5	19.0					
%RSD	.36822	.20474	.21650	.33172					
#1	158960.	30067.	2100.6	5732.2					
#2	159790.	30155.	2094.2	5705.4					

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Sample Name: jb67698-55a Acquired: 6/4/2014 1:40:35 Type: Unk
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.0008	.0000	.0000	-.0002	.0007	.0007	.0001	-.0001	.0002
Stddev	.0001	.0000	.0000	.0003	.0002	.0001	.0000	.0001	.0001
%RSD	14.34	249.4	10.38	181.1	30.49	11.65	61.58	227.6	42.41
#1	.0009	.0000	.0000	.0000	.0008	.0006	.0000	.0000	.0002
#2	.0008	.0000	.0000	-.0004	.0005	.0007	.0001	-.0002	.0001
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0000	.0013	-.0016	-.0004	.0001	.0027	.0011	.0120	.2109
Stddev	.000	.0001	.0004	.0002	.0003	.0040	.0004	.0098	.0085
%RSD	130.9	9.664	23.63	41.67	191.6	146.3	37.86	81.97	4.009
#1	.0000	.0012	-.0014	-.0005	.0003	.0001	.0008	.0189	.2169
#2	-.0001	.0013	-.0019	-.0003	.0000	.0055	.0014	.0050	.2049
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0059	.0521	-.0010	7.213	.0447	.0001	.0002	.2780	.0004
Stddev	.0013	.0046	.0078	.354	.0004	.0002	.0005	.0010	.0002
%RSD	22.41	8.815	788.2	4.905	.9854	236.9	303.1	.3717	61.46
#1	.0068	.0488	-.0065	7.463	.0444	.0002	-.0002	.2773	.0006
#2	.0049	.0553	.0045	6.963	.0451	.0000	.0005	.2787	.0002
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0002	.0007	-.0033	.0001	.4798	-.0010	.0007		
Stddev	.0000	.0002	.0011	.0000	.0056	.0001	.0008		
%RSD	12.27	27.87	33.23	29.19	1.164	7.002	112.7		
#1	.0002	.0005	-.0041	.0001	.4759	-.0009	.0013		
#2	.0002	.0008	-.0025	.0001	.4838	-.0010	.0001		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	160280.	29748.	2103.4	5740.0					
Stddev	946.	1212.	10.5	25.6					
%RSD	.59040	4.0725	.50052	.44582					
#1	160950.	28891.	2110.8	5758.1					
#2	159610.	30605.	2095.9	5721.9					

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Sample Name: ccv Acquired: 6/4/2014 1:46:38 Type: QC
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.043	2.086	2.060	2.064	2.081	2.013	2.126	2.087	.2489
Stddev	.002	.003	.023	.019	.009	.004	.006	.019	.0004
%RSD	.0769	.1239	1.138	.9411	.4342	.1921	.2830	.8969	.1663
#1	2.042	2.084	2.076	2.078	2.088	2.010	2.130	2.100	.2486
#2	2.044	2.087	2.043	2.050	2.075	2.016	2.121	2.073	.2492
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.052	2.104	2.038	2.107	2.086	2.041	2.043	39.69	40.41
Stddev	.005	.019	.023	.023	.018	.023	.028	.04	.02
%RSD	.2619	.9093	1.118	1.113	.8396	1.121	1.352	.1062	.0467
#1	2.056	2.118	2.054	2.123	2.099	2.057	2.063	39.66	40.40
#2	2.049	2.090	2.022	2.090	2.074	2.025	2.024	39.72	40.42
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.29	39.83	39.49	40.15	2.039	2.072	1.999	5.041	2.085
Stddev	.05	.04	.07	.13	.022	.024	.002	.057	.023
%RSD	.1299	.1108	.1776	.3162	1.101	1.148	.1065	1.124	1.115
#1	40.26	39.79	39.44	40.06	2.055	2.089	1.998	5.081	2.101
#2	40.33	39.86	39.54	40.24	2.023	2.055	2.001	5.001	2.068
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

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Sample Name: ccv Acquired: 6/4/2014 1:46:38 Type: QC
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm		
Avg	2.059	2.049	1.951	1.983	1.980	2.017	2.005		
Stddev	.004	.001	.013	.002	.025	.025	.005		
%RSD	.1832	.0551	.6817	.0927	1.250	1.220	.2552		
#1	2.056	2.050	1.960	1.984	1.997	2.035	2.002		
#2	2.061	2.048	1.941	1.982	1.962	2.000	2.009		
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass		
Value									
Range									
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Units	Cts/S	Cts/S	Cts/S	Cts/S					
Avg	154740.	29618.	2061.4	5513.2					
Stddev	10.	35.	20.4	43.6					
%RSD	.00626	.11944	.99120	.79142					
#1	154740.	29643.	2047.0	5482.4					
#2	154750.	29593.	2075.9	5544.1					

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Sample Name: ccb Acquired: 6/4/2014 1:52:29 Type: QC
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0001	.0002	.0001	.0003	.0005	.0001	.0005	.0000
Stddev	.0000	.0000	.0001	.0002	.0001	.0002	.0000	.0001	.0001
%RSD	28.33	.1873	51.03	169.9	42.79	44.38	4.810	9.905	658.5
#1	.0002	.0001	.0001	.0002	.0003	.0003	.0001	.0005	.0001
#2	.0001	.0001	.0003	.0000	.0002	.0006	.0001	.0005	.0001

Check ? High Limit Low Limit
Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0006	.0003	.0009	.0010	.0017	.0006	.0051	.0077
Stddev	.0000	.0001	.0005	.0005	.0004	.0003	.0003	.0016	.0007
%RSD	18.52	15.95	174.3	55.10	36.34	17.77	49.81	31.07	8.680
#1	.0001	.0005	.0006	.0012	.0007	.0015	.0009	.0040	.0072
#2	.0002	.0006	.0001	.0005	.0013	.0019	.0004	.0062	.0082

Check ? High Limit Low Limit
Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0036	.0124	.0328	.0051	.0021	.0001	.0001	.0011	.0001
Stddev	.0001	.0074	.0214	.0014	.0000	.0000	.0003	.0003	.0007
%RSD	1.592	59.70	65.30	27.59	.0702	2.942	299.4	27.04	492.1
#1	.0035	.0176	.0479	.0061	.0021	.0001	.0001	.0013	.0003
#2	.0036	.0072	.0176	.0041	.0021	.0001	.0003	.0009	.0006

Check ? High Limit Low Limit
Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

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Sample Name: ccb Acquired: 6/4/2014 1:52:29 Type: QC
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0004	.0060	.0003	.0012	.0007	.0006
Stddev	.0000	.0001	.0001	.0000	.0011	.0005	.0003
%RSD	16.41	17.29	1.454	7.861	90.34	65.57	46.36
#1	.0001	.0005	.0061	.0003	.0004	.0004	.0009
#2	.0001	.0004	.0060	.0003	.0020	.0010	.0004

Check ? High Limit Low Limit
Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	159140.	30262.	2124.2	5739.8
Stddev	160.	42.	7.1	6.3
%RSD	.10026	.13939	.33623	.10918
#1	159250.	30232.	2119.2	5735.4
#2	159030.	30292.	2129.3	5744.3

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Sample Name: cri Acquired: 6/4/2014 1:58:33 Type: QC
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2017	.0022	.0032	.0532	.0111	.0099	.0165	.0111
Stddev	.0006	.0000	.0000	.0000	.0001	.0000	.0001	.0001
%RSD	.2848	.7871	.3947	.0602	1.335	.2639	.4878	.6434
#1	.2012	.0022	.0032	.0533	.0112	.0098	.0164	.0112
#2	.2021	.0022	.0032	.0532	.0110	.0099	.0166	.0111

Check ? Value Range
Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

Elem	Ag3280	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0053	.0539	W .0240	W .0097	W .0122	W .0039	W .0128	W .0075
Stddev	.0002	.0004	.0001	.0018	.0006	.0001	.0007	.0002
%RSD	4.340	.7192	.2881	18.84	4.696	1.541	5.699	2.767
#1	.0051	.0537	.0240	.0084	.0118	.0038	.0123	.0076
#2	.0055	.0542	.0241	.0110	.0127	.0039	.0134	.0073

Check ? Value Range
Chk Pass Chk Pass Chk Warn .0200 20.00% Chk Warn .0080 20.00% Chk Warn .0100 20.00% Chk Warn .0030 20.00% Chk Warn .0100 20.00% Chk Warn .0060 20.00%

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2159	5.055	.1075	5.032	5.021	5.004	.1016	.0213
Stddev	.0037	.009	.0012	.024	.002	.003	.0006	.0002
%RSD	1.693	.1816	1.076	.4830	.0452	.0515	.6183	.9029
#1	.2185	5.062	.1067	5.015	5.023	5.002	.1020	.0214
#2	.2134	5.049	.1083	5.050	5.019	5.006	.1011	.0211

Check ? Value Range
Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

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Sample Name: cri Acquired: 6/4/2014 1:58:33 Type: QC
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pd3404	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0470	.2129	.0106	.0105	.0111	F .0067	.0106	.0495
Stddev	.0006	.0009	.0006	.0000	.0001	.0002	.0000	.0001
%RSD	1.373	.4157	5.659	.0836	1.220	2.857	.0875	.1900
#1	.0475	.2135	.0102	.0105	.0110	.0066	.0106	.0496
#2	.0466	.2123	.0110	.0105	.0112	.0068	.0106	.0494

Check ? Value Range
Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Fail .0500 -30.00% Chk Pass Chk Pass

Elem	Bi2230	Li6707
Units	ppm	ppm
Avg	.0216	.0219
Stddev	.0001	.0003
%RSD	.5071	1.498
#1	.0216	.0216
#2	.0217	.0221

Check ? Value Range
Chk Pass Chk Pass

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	159630.	30456.	2111.8	5713.1
Stddev	642.	52.	3.9	3.9
%RSD	.40217	.17049	.18239	.06829
#1	160080.	30419.	2109.0	5710.3
#2	159170.	30493.	2114.5	5715.9

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Sample Name: crid Acquired: 6/4/2014 2:04:33 Type: QC
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0042	.0011	.0010	.0031	.0022	.0020	.0033	.0045
Stddev	.0001	.0000	.0001	.0001	.0001	.0000	.0001	.0002
%RSD	1.294	1.666	10.44	3.253	4.911	1.890	2.424	3.638
#1	.0042	.0010	.0011	.0030	.0021	.0020	.0032	.0046
#2	.0043	.0011	.0009	.0031	.0023	.0020	.0033	.0044

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

Elem	Ag3280	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009	.0023	W .0127	.0033	.0016	F .0034	F .0030	.0034
Stddev	.0000	.0003	.0001	.0001	.0000	.0010	.0015	.0006
%RSD	5.114	12.20	.8650	1.750	1.877	29.42	51.06	16.95
#1	.0009	.0021	.0128	.0033	.0016	.0027	.0019	.0030
#2	.0009	.0025	.0126	.0033	.0016	.0042	.0041	.0038

Check ? Chk Pass Chk Pass Chk Warn Chk Pass Chk Pass Chk Fail Chk Fail Chk Pass
Value .0100 .0025 .0050
Range 20.00% 30.00% -30.00%

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1021	1.051	.0007	.1109	1.981	1.049	W .0080	.0000
Stddev	.0143	.004	.0006	.0145	.004	.006	.0003	.0002
%RSD	13.96	.4138	82.99	13.11	.1909	.5770	3.711	682.7
#1	.1122	1.054	.0011	.1006	1.978	1.053	.0082	.0002
#2	.0920	1.048	.0003	.1212	1.983	1.045	.0078	-.0001

Check ? Chk Pass Chk Pass None Chk Pass Chk Pass Chk Pass Chk Warn None
Value .0100
Range -20.00%

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Sample Name: crid Acquired: 6/4/2014 2:04:33 Type: QC
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pd3404	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0009	.0002	-.0001	.0002	F .0004	F .0000	F -.0007
Stddev	.0004	.0002	.0002	.0000	.0001	.0002	.0000	.0014
%RSD	280.9	18.13	100.1	52.17	52.47	50.11	1562.	209.5
#1	.0004	.0010	.0003	-.0001	.0001	.0006	.0001	-.0017
#2	-.0001	.0008	.0001	.0000	.0003	.0003	-.0002	.0003

Check ? None None None None None Chk Fail Chk Fail Chk Fail
Value .0040 .0040 .0040
Range -30.00% -30.00% -30.00%

Elem	Bi2230	Li6707
Units	ppm	ppm
Avg	F .0003	F .0011
Stddev	.0010	.0000
%RSD	375.7	3.470

#1	-.0010	.0012
#2	.0004	.0011

Check ? Chk Fail Chk Fail
Value .0040 .0040
Range -30.00% -30.00%

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	160670.	30266.	2138.1	5780.8
Stddev	210.	73.	.8	2.9
%RSD	.13065	.24140	.03846	.05083
#1	160820.	30214.	2138.7	5778.8
#2	160520.	30318.	2137.5	5782.9

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Sample Name: cria Acquired: 6/4/2014 2:10:37 Type: QC
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0000	-.0002	.0000	.0001	-.0002	.0000	.0002	.0003
Stddev	.0001	.0000	.0000	.0001	.0000	.0004	.000	.0000	.0002
%RSD	94.75	70.76	21.86	847.0	3.729	206.5	80.77	5.011	64.14
#1	.0000	.0000	-.0003	-.0001	.0001	.0001	.0000	.0002	.0004
#2	.0001	.0000	-.0002	.0001	.0001	-.0004	.0000	.0002	.0002

Check ? None None None None None None None None None
Value
Range

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0010	.0196	-.0005	.0242	.0208	.0212	.4982	.0108
Stddev	.0000	.0001	.0001	.0002	.0000	.0006	.0006	.0027	.0011
%RSD	25.04	8.751	.6387	32.43	.0890	2.747	3.035	.5406	10.05
#1	.0001	.0009	.0195	-.0007	.0242	.0212	.0207	.4963	.0115
#2	.0000	.0011	.0197	-.0004	.0242	.0204	.0216	.5001	.0100

Check ? None None Chk Pass None Chk Pass Chk Pass Chk Pass Chk Pass None
Value
Range

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5232	-.0005	-.0529	.0069	-.0030	-.0001	.0003	-.0024	.0004
Stddev	.0007	.0102	.0259	.0010	.0005	.0002	.0003	.0006	.0004
%RSD	.1278	1937.	48.89	13.85	15.13	193.9	108.8	25.21	105.0
#1	.5236	.0067	-.0712	.0076	-.0027	-.0002	.0005	-.0020	.0007
#2	.5227	-.0077	-.0346	.0062	-.0033	.0000	.0001	-.0028	.0001

Check ? Chk Pass None None None None None None None
Value
Range

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Sample Name: cria Acquired: 6/4/2014 2:10:37 Type: QC
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0004	-.0009	.0000	.0021	.0001	.0002
Stddev	.0000	.0000	.0009	.000	.0009	.0002	.0003
%RSD	86.55	4.966	100.7	11090.	44.24	146.9	155.6
#1	.0000	.0004	-.0003	.0001	.0015	.0002	.0004
#2	.0001	.0004	-.0016	-.0001	.0028	.0000	.0000

Check ? None None None None None None None
Value
Range

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	162740.	30867.	2156.7	5825.2
Stddev	261.	5.	1.5	5.0
%RSD	.16016	.01500	.06883	.08501
#1	162560.	30871.	2155.7	5821.7
#2	162930.	30864.	2157.8	5828.7

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Sample Name: icsa Acquired: 6/4/2014 2:16:42 Type: QC									
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000									
User: admin Custom ID1: Custom ID2: Custom ID3:									
Comment:									
Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0002	.0000	.0021	-0.0002	-0.0001	.0029	.0002	-0.0005	.0023
Stddev	.0002	.0000	.0001	.0000	.0003	.0002	.0000	.0001	.0010
%RSD	94.65	816.9	5.299	6.279	342.0	6.631	18.93	24.04	44.19
#1	-.0003	.0000	.0020	-.0002	.0001	.0027	.0001	-.0004	.0016
#2	-.0001	.0000	.0022	-.0002	-.0003	.0030	.0002	-.0006	.0030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008	-0.0004	.0010	.0003	-0.0030	.0025	.0051	524.1	405.3
Stddev	.0001	.0003	.0014	.0028	.0014	.0057	.0022	.8	.5
%RSD	15.51	68.00	138.4	1117.	45.70	229.8	43.14	.1498	.1218
#1	.0009	-.0002	.0020	-.0017	-.0020	-.0015	.0036	524.6	404.9
#2	.0007	-.0006	.0000	.0022	-.0040	.0065	.0067	523.5	405.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	200.6	568.4	.1017	.0246	-0.0038	-0.0046	.0059	.0110	.0003
Stddev	.8	.8	.0207	.0036	.0000	.0002	.0007	.0014	.0009
%RSD	.3876	.1371	20.35	14.83	1.197	3.517	12.73	12.40	264.3
#1	200.0	569.0	.0871	.0271	-.0038	-.0047	.0053	.0119	.0009
#2	201.1	567.9	.1163	.0220	-.0038	-.0044	.0064	.0100	-.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

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Sample Name: icsa Acquired: 6/4/2014 2:16:42 Type: QC							
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000							
User: admin Custom ID1: Custom ID2: Custom ID3:							
Comment:							
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0066	.0000	.0084	.0068	-.0714	.0151	.0010
Stddev	.0001	.0002	.0004	.0002	.0002	.0014	.0005
%RSD	1.359	905.5	4.619	3.047	.3489	9.531	51.45
#1	-.0066	.0002	.0082	.0067	-.0712	.0141	.0014
#2	-.0067	-.0001	.0087	.0069	-.0716	.0161	.0006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							
Int. Std.	Y_3600	Y_3710	Y_2243	In2306			
Units	Cts/S	Cts/S	Cts/S	Cts/S			
Avg	144020.	27749.	1879.3	4883.4			
Stddev	235.	16.	12.8	31.2			
%RSD	.16285	.05818	.68176	.63943			
#1	144180.	27737.	1888.3	4905.5			
#2	143850.	27760.	1870.2	4861.3			

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Sample Name: icsab Acquired: 6/4/2014 2:22:58 Type: QC									
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000									
User: admin Custom ID1: Custom ID2: Custom ID3:									
Comment:									
Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5363	.5337	1.056	.4964	.4827	.5452	.5074	.9992	1.057
Stddev	.0045	.0049	.002	.0002	.0013	.0012	.0009	.0024	.000
%RSD	.8401	.9250	.1549	.0417	.2607	.2203	.1744	.2415	.0118
#1	.5331	.5302	1.057	.4966	.4818	.5460	.5068	1.001	1.057
#2	.5395	.5372	1.055	.4963	.4835	.5443	.5080	.9975	1.057
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value Range									
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4866	.9888	1.099	.9771	1.021	1.083	1.052	526.9	405.9
Stddev	.0009	.0012	.001	.0037	.000	.005	.005	8.3	3.5
%RSD	.1934	.1239	.1223	.3805	.0007	.4822	.4743	1.567	.8608
#1	.4859	.9997	1.100	.9797	1.021	1.080	1.056	521.1	403.4
#2	.4872	.9979	1.098	.9744	1.021	1.087	1.049	532.7	408.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value Range									
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	200.4	584.6	.0745	.0224	-0.0018	.5074	.5664	.0020	.0021
Stddev	2.2	6.1	.0099	.0020	.0005	.0008	.0018	.0014	.0003
%RSD	1.116	1.043	13.31	9.080	29.92	.1549	.3208	72.57	14.67
#1	198.8	580.3	.0675	.0210	-.0014	.5080	.5677	.0010	.0023
#2	202.0	588.9	.0815	.0238	-.0021	.5069	.5651	.0030	.0019
Check ?	Chk Pass	Chk Pass	None	None	None	Chk Pass	Chk Pass	None	None
Value Range									

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Sample Name: icsab Acquired: 6/4/2014 2:22:58 Type: QC							
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000							
User: admin Custom ID1: Custom ID2: Custom ID3:							
Comment:							
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0067	.0004	.5661	F_6011	.4444	.5846	.5760
Stddev	.0000	.0001	.0015	.0001	.0061	.0008	.0052
%RSD	.4616	11.82	.2642	.0087	1.363	.1337	.8959
#1	-.0067	.0004	.5671	.6012	.4487	.5852	.5724
#2	-.0067	.0005	.5650	.6011	.4401	.5841	.5797
Check ?	None	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value Range				5.000 20.00%			
Int. Std.	Y_3600	Y_3710	Y_2243	In2306			
Units	Cts/S	Cts/S	Cts/S	Cts/S			
Avg	144380.	27451.	1890.0	4928.0			
Stddev	195.	335.	6.4	7.4			
%RSD	.13486	1.2199	.33969	.15005			
#1	144520.	27687.	1885.5	4922.8			
#2	144250.	27214.	1894.6	4933.2			

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Sample Name: ccv Acquired: 6/4/2014 2:29:08 Type: QC									
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000									
User: admin Custom ID1: Custom ID2: Custom ID3:									
Comment:									
Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.048	2.096	2.121	2.112	2.084	2.007	2.136	2.139	2512
Stddev	.004	.008	.056	.050	.009	.001	.009	.050	.0009
%RSD	.2170	.3711	2.621	2.369	.4190	.0479	.3992	2.335	.3508
#1	2.051	2.101	2.160	2.147	2.091	2.007	2.142	2.174	2518
#2	2.045	2.090	2.081	2.077	2.078	2.008	2.130	2.103	2506
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.075	2.160	2.097	2.152	2.135	2.114	2.101	40.17	40.72
Stddev	.007	.051	.057	.053	.051	.051	.055	.14	.11
%RSD	.3545	2.364	2.728	2.470	2.370	2.407	2.599	.3580	.2661
#1	2.081	2.196	2.137	2.190	2.170	2.150	2.140	40.27	40.80
#2	2.070	2.124	2.056	2.115	2.099	2.078	2.063	40.06	40.65
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.75	40.31	39.94	40.59	2.094	2.125	2.001	5.192	2.138
Stddev	.09	.13	.14	.17	.057	.056	.002	.143	.057
%RSD	.2215	.3263	.3577	.4262	2.715	2.655	.0898	2.752	2.685
#1	40.81	40.40	40.04	40.71	2.135	2.164	2.002	5.293	2.178
#2	40.68	40.21	39.83	40.47	2.054	2.085	2.000	5.091	2.097
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

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Sample Name: ccb Acquired: 6/4/2014 2:34:59 Type: QC									
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000									
User: admin Custom ID1: Custom ID2: Custom ID3:									
Comment:									
Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0000	-0.0001	.0000	-0.0001	.0002	.0000	.0000	.0001
Stddev	.0001	.0000	.0001	.000	.0000	.0000	.000	.000	.0002
%RSD	36.40	120.4	54.21	79.02	24.82	22.39	14.86	4334.	146.2
#1	.0001	.0000	-0.0001	.0000	-0.0001	.0001	.0000	.0002	.0002
#2	.0002	.0000	-0.0001	.0000	-0.0001	.0002	-0.0001	-0.0003	.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0001	.0003	-0.0008	.0000	-0.0031	.0003	-0.0006	.0033
Stddev	.0003	.0001	.0003	.0003	.0002	.0017	.0006	.0046	.0012
%RSD	454.1	60.81	109000.	34.37	1426.	53.36	198.4	756.1	37.28
#1	-0.0001	.0001	-0.0002	-0.0010	.0002	-0.0020	.0007	-0.0039	.0042
#2	.0002	.0002	.0002	-0.0006	-0.0001	-0.0043	-0.0001	.0027	.0024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0019	.0029	-0.0349	.0036	-0.0024	.0002	.0006	.0024	-0.0001
Stddev	.0018	.0028	.0035	.0000	.0001	.0000	.0003	.0014	.0003
%RSD	97.08	98.73	10.14	1.020	2.160	7.754	55.96	57.48	320.6
#1	.0032	.0049	-0.0374	.0036	-0.0023	.0002	.0008	.0033	.0001
#2	.0006	.0009	-0.0324	.0036	-0.0024	.0002	.0003	.0014	-0.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

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Sample Name: ccv Acquired: 6/4/2014 2:29:08 Type: QC									
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000									
User: admin Custom ID1: Custom ID2: Custom ID3:									
Comment:									
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm		
Avg	2.074	2.058	2.056	1.997	2.040	2.090	2.013		
Stddev	.005	.006	.052	.004	.058	.060	.009		
%RSD	.2543	.3075	2.529	.2195	2.820	2.867	.4718		
#1	2.078	2.062	2.093	2.000	2.081	2.133	2.020		
#2	2.070	2.054	2.019	1.994	1.999	2.048	2.006		
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass		
Value									
Range									
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Units	Cts/S	Cts/S	Cts/S	Cts/S					
Avg	153630.	29308.	2010.3	5385.2					
Stddev	75.	172.	46.2	112.9					
%RSD	.04857	.58658	2.2985	2.0957					
#1	153680.	29186.	1977.6	5305.4					
#2	153570.	29429.	2043.0	5465.0					

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Sample Name: ccb Acquired: 6/4/2014 2:34:59 Type: QC									
Method: Accutest1(v112) Mode: CONC Corr. Factor: 1.000000									
User: admin Custom ID1: Custom ID2: Custom ID3:									
Comment:									
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm		
Avg	.0000	.0003	.0065	.0003	-0.0002	-0.0010	-0.0001		
Stddev	.0000	.0002	.0013	.0001	.0030	.0001	.0009		
%RSD	101.2	61.73	19.74	35.10	1373.	8.606	978.4		
#1	.0000	.0005	.0074	.0003	-.0024	-.0010	.0006		
#2	.0000	.0002	.0056	.0002	.0019	-.0011	-.0007		
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass		
High Limit									
Low Limit									
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Units	Cts/S	Cts/S	Cts/S	Cts/S					
Avg	160050.	30394.	2134.0	5769.7					
Stddev	70.	69.	89.9	232.3					
%RSD	.04345	.22583	4.2132	4.0259					
#1	160100.	30442.	2070.4	5605.5					
#2	160010.	30345.	2197.5	5934.0					

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Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
Ba 455.403 { 74}	☒	3	Mg	0.000001	0.000000	No
			Al	0.000000	0.000000	No
			Zr	0.001080	0.000000	No
Be 313.042 {108}	☒	13	V	0.000649	0.000000	No
			Mo	-0.000037	0.000000	No
			Ti	-0.000287	0.000000	No
			Mn	0.000027	0.000000	No
			Ba	0.000015	0.000000	No
			Co	-0.000020	0.000000	No
			Ni	0.000004	0.000000	No
			Ca	0.000000	0.000000	No
			Cu	0.000034	0.000000	No
			Zn	-0.000010	0.000000	No
			Fe	0.000000	0.000000	No
			Cd	0.000050	0.000000	No
			W	0.000000	0.000000	No
Cd 228.802 {448}	☒	13	As	0.005000	0.000000	No
			Ni	-0.000178	0.000000	No
			Fe	-0.000005	0.000000	No
			V	0.000050	0.000000	No
			Ba	-0.000047	0.000000	No
			Co	-0.000950	0.000000	No
			Sr	0.000100	0.000000	No
			Ca	-0.000003	0.000000	No
			Mn	-0.000021	0.000000	No
			Cr	0.000025	0.000000	No
			Si	-0.000005	0.000000	No
			Cu	-0.000026	0.000000	No
			Al	0.000000	0.000000	No
Co 228.616 {448}	☒	10	Fe	0.000006	0.000000	No
			Cr	-0.000100	0.000000	No
			Mo	-0.000400	0.000000	No
			Ni	0.000256	0.000000	No
			Ti	0.001639	0.000000	No
			Ba	0.000062	0.000000	No
			W	0.000000	0.000000	No
			Cd	-0.000060	0.000000	No
			Si	0.000000	0.000000	No
			Ca	0.000000	0.000000	No
Cr 267.716 {126}	☒	15	Mn	0.000402	0.000000	No
			V	0.000080	0.000000	No
			Mo	0.000018	0.000000	No
			Fe	-0.000009	0.000000	No
			Cd	-0.000050	0.000000	No
			Al	0.000001	0.000000	No
			Ca	-0.000002	0.000000	No
			Mg	0.000000	0.000000	No
			Ti	0.000000	0.000000	No
			Sn	0.000000	0.000000	No
			Ba	-0.000005	0.000000	No
			Cu	0.000100	0.000000	No
			Sr	0.000000	0.000000	No
			W	0.004000	0.000000	No
			Zr	0.000280	0.000000	No
Cu 324.754 {104}2	☒	22	Cr	0.000016	0.000000	No
			V	-0.000283	0.000000	No
			Mo	0.000406	0.000000	No

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
			Ti	-0.000100	0.000000	No
			Fe	-0.000115	0.000000	No
			Al	0.000002	0.000000	No
			Sn	-0.000097	0.000000	No
			Zn	-0.000004	0.000000	No
			Co	-0.000317	0.000000	No
			Zr	0.000000	0.000000	No
			Si	0.000009	0.000000	No
			Mn	-0.000080	0.000000	No
			Se	0.000050	0.000000	No
			Ba	0.000100	0.000000	No
			Ag	-0.000077	0.000000	No
			Pb	0.000060	0.000000	No
			Sb	0.000000	0.000000	No
			Mg	0.000002	0.000000	No
			Ca	-0.000001	0.000000	No
			Bi	0.000000	0.000000	No
			W	0.000000	0.000000	No
Mn 257.610 {131}	☒	8	K	0.000000	0.000000	No
			Fe	-0.000101	0.000000	No
			Si	0.000050	0.000000	No
			Ba	0.000100	0.000000	No
			As	0.000001	0.000000	No
			Ca	0.000000	0.000000	No
			Mg	0.000000	0.000000	No
			Al	-0.000001	0.000000	No
			Cr	-0.000100	0.000000	No
Ni 231.604 {446}	☒	19	Fe	0.000017	0.000000	No
			Zn	0.000079	0.000000	No
			Be	0.000213	0.000000	No
			Co	0.000080	0.000000	No
			Tl	0.000209	0.000000	No
			Mg	0.000001	0.000000	No
			Mo	0.000485	0.000000	No
			V	0.000011	0.000000	No
			Cu	0.000050	0.000000	No
			Se	0.000100	0.000000	No
			Al	0.000003	0.000000	No
			Cr	0.000006	0.000000	No
			Si	-0.000030	0.000000	No
			Sn	0.000079	0.000000	No
			Ba	0.000000	0.000000	No
			Ca	-0.000002	0.000000	No
			Ti	-0.000040	0.000000	No
			Mn	-0.000080	0.000000	No
Ag 328.068 {103}	☒	14	W	0.000000	0.000000	No
			Mn	0.000211	0.000000	No
			Mo	-0.000098	0.000000	No
			Ti	-0.000830	0.000000	No
			Fe	-0.000509	0.000000	No
			V	-0.000040	0.000000	No
			Zn	-0.000080	0.000000	No
			Ca	0.000000	0.000000	No
			Al	-0.000001	0.000000	No
			Sr	-0.000024	0.000000	No
			Mg	0.000001	0.000000	No
			Zr	0.005800	0.000000	No

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
			Si	-0.000021	0.000000	No
			Ba	0.000006	0.000000	No
			K	0.000000	0.000000	No
V 292.402 {115}	☒	7	Ti	0.000630	0.000000	No
			Mo	-0.013100	0.000000	No
			Fe	0.000011	0.000000	No
			Sr	-0.000100	0.000000	No
			Cr	-0.002600	0.000000	No
			Mn	-0.000200	0.000000	No
			Zr	0.000170	0.000000	No
Zn 206.200 {464}	☒	20	Cr	-0.001125	0.000000	No
			Mo	0.000260	0.000000	No
			Fe	-0.000008	0.000000	No
			Si	0.000065	0.000000	No
			Mn	0.000350	0.000000	No
			Ba	-0.000060	0.000000	No
			Na	0.000003	0.000000	No
			Ca	0.000000	0.000000	No
			Sr	0.000000	0.000000	No
			Sn	0.000255	0.000000	No
			Cu	-0.000774	0.000000	No
			As	0.000500	0.000000	No
			Be	0.000364	0.000000	No
			Pd	0.000280	0.000000	No
			Ti	-0.000080	0.000000	No
			Al	0.000005	0.000000	No
			Zr	0.000000	0.000000	No
			Bi	-0.003364	0.000000	No
			W	0.060000	0.000000	No
			K	0.000000	0.000000	No
As 189.042 {478}	☒	23	Al	0.000003	0.000000	No
			Fe	-0.000068	0.000000	No
			Ca	0.000000	0.000000	No
			Mn	0.000090	0.000000	No
			Mo	0.000040	0.000000	No
			Cr	-0.005750	0.000000	No
			V	0.000095	0.000000	No
			Co	-0.001500	0.000000	No
			Ba	-0.000067	0.000000	No
			Sn	-0.000037	0.000000	No
			Cd	-0.000228	0.000000	No
			Tl	0.000030	0.000000	No
			Be	-0.000007	0.000000	No
			Mg	-0.000000	0.000000	No
			Si	-0.000195	0.000000	No
			Zn	0.000115	0.000000	No
			Sr	0.000100	0.000000	No
			Pd	0.031510	0.000000	No
			Zr	-0.000411	0.000000	No
			Ti	-0.000070	0.000000	No
			W	0.020000	0.000000	No
			S	-0.000040	0.000000	No
			K	0.000000	0.000000	No
Tl 190.856 {477}	☒	29	Cr	0.000421	0.000000	No
			Mo	-0.007200	0.000000	No
			Al	-0.000002	0.000000	No
			Fe	-0.000123	0.000000	No

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
			V	-0.028200	0.000000	No
			Mn	0.000800	0.000000	No
			Ca	-0.000006	0.000000	No
			Ti	-0.001400	0.000000	No
			Mg	-0.000002	0.000000	No
			Co	0.003472	0.000000	No
			Sr	-0.000400	0.000000	No
			B	-0.000025	0.000000	No
			Ba	0.000000	0.000000	No
			Zn	0.000100	0.000000	No
			As	-0.000020	0.000000	No
			W	0.000000	0.000000	No
			Ni	0.000090	0.000000	No
			Cu	-0.000125	0.000000	No
			Zr	0.000000	0.000000	No
			Pd	0.000185	0.000000	No
			Pb	-0.000600	0.000000	No
			S	0.000039	0.000000	No
			Ag	0.000250	0.000000	No
			Be	0.000000	0.000000	No
			Sn	-0.000023	0.000000	No
			K	0.000000	0.000000	No
			Cd	-0.000240	0.000000	No
			Si	0.000293	0.000000	No
Pb 220.353 (453)	☒	23	Na	-0.000001	0.000000	No
			Al	-0.000071	0.000000	No
			Fe	0.000035	0.000000	No
			Ca	0.000003	0.000000	No
			Mn	0.000033	0.000000	No
			Zn	-0.000036	0.000000	No
			Mo	-0.002050	0.000000	No
			Cu	-0.000031	0.000000	No
			V	0.000068	0.000000	No
			Co	0.000073	0.000000	No
			Ti	-0.000200	0.000000	No
			Si	-0.000042	0.000000	No
			Ba	-0.000010	0.000000	No
			Sb	0.000150	0.000000	No
			K	0.000000	0.000000	No
			Sr	0.000140	0.000000	No
			W	0.109900	0.000000	No
			Mg	0.000002	0.000000	No
			Cd	-0.000018	0.000000	No
			Pd	0.000560	0.000000	No
			Zr	-0.001000	0.000000	No
			Ni	0.000050	0.000000	No
			S	-0.000010	0.000000	No
			Bi	0.000000	0.000000	No
Se 196.090 (472)	☒	22	Al	-0.000024	0.000000	No
			Ca	0.000002	0.000000	No
			Mn	0.000223	0.000000	No
			Mo	-0.000119	0.000000	No
			Fe	-0.000358	0.000000	No
			Co	-0.000330	0.000000	No
			V	-0.000200	0.000000	No
			Sr	-0.000258	0.000000	No
			Cu	-0.000007	0.000000	No

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
			W	0.050000	0.000000	No
			Si	0.000011	0.000000	No
			Ti	0.000204	0.000000	No
			Be	-0.000143	0.000000	No
			Zn	0.000100	0.000000	No
			B	0.000025	0.000000	No
			Pd	0.000700	0.000000	No
			Ti	-0.000017	0.000000	No
			Cd	0.000090	0.000000	No
			Zr	-0.004300	0.000000	No
			Ba	0.000040	0.000000	No
			Mg	-0.000002	0.000000	No
			S	-0.000010	0.000000	No
Sb 206.833 {463}	☒	14	Fe	-0.000010	0.000000	No
			Al	0.000006	0.000000	No
			Ca	-0.000001	0.000000	No
			Ni	-0.000856	0.000000	No
			Cr	0.006200	0.000000	No
			V	-0.004530	0.000000	No
			Zn	0.000188	0.000000	No
			Mo	0.000250	0.000000	No
			Ti	0.000100	0.000000	No
			Sn	-0.015500	0.000000	No
			W	0.000000	0.000000	No
			Mg	0.000003	0.000000	No
			Zr	-0.000300	0.000000	No
			Sr	0.000031	0.000000	No
Al 396.152 { 85}	☒	4	Si	0.000350	0.000000	No
			Ca	-0.000265	0.000000	No
			Mo	0.039000	0.000000	No
			Zr	-0.008158	0.000000	No
Ca 317.933 {106}	☒	18	Fe	0.000120	0.000000	No
			Ti	0.000000	0.000000	No
			W	0.003960	0.000000	No
			Ti	0.004955	0.000000	No
			Be	0.001840	0.000000	No
			Ba	-0.001500	0.000000	No
			Cu	0.004200	0.000000	No
			Cd	0.003700	0.000000	No
			Ni	0.001859	0.000000	No
			Pd	0.004700	0.000000	No
			Mn	0.000000	0.000000	No
			B	-0.000210	0.000000	No
			Se	0.005000	0.000000	No
			Co	-0.000920	0.000000	No
			Cr	0.004000	0.000000	No
			Al	0.000026	0.000000	No
			As	0.010000	0.000000	No
			Pb	0.002000	0.000000	No
Fe 259.940 {130}	☒	13	Co	0.000200	0.000000	No
			Si	-0.001181	0.000000	No
			Ti	-0.002562	0.000000	No
			Se	0.000000	0.000000	No
			Cr	-0.000360	0.000000	No
			Mn	-0.002000	0.000000	No
			V	-0.000064	0.000000	No
			Cu	0.000085	0.000000	No

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
			K	-0.000200	0.000000	No
			Zn	0.000080	0.000000	No
			Ti	-0.000631	0.000000	No
			Ca	0.000020	0.000000	No
			Ba	0.001000	0.000000	No
Mg 279.079 {121}	☒	3	Mo	-0.016250	0.000000	No
			W	0.000000	0.000000	No
			Mn	-0.005360	0.000000	No
K 766.490 { 44}	☒	12	Fe	-0.000715	0.000000	No
			Al	0.000032	0.000000	No
			Ca	-0.000012	0.000000	No
			Mn	0.001430	0.000000	No
			Si	-0.003000	0.000000	No
			V	-0.002360	0.000000	No
			Pd	0.004000	0.000000	No
			Sn	-0.004700	0.000000	No
			Ba	-0.002700	0.000000	No
			Mo	-0.000850	0.000000	No
			Cu	-0.010000	0.000000	No
			Ni	-0.000500	0.000000	No
Na 589.592 { 57}	☒	6	K	-0.000560	0.000000	No
			Ba	0.000900	0.000000	No
			Ca	-0.000034	0.000000	No
			Al	0.000040	0.000000	No
			V	0.000000	0.000000	No
			Cr	0.000000	0.000000	No
B 208.959 {462}	☒	1	Mo	0.027950	0.000000	No
Mo 202.030 {467}	☒	6	Co	0.000000	0.000000	No
			Al	0.000000	0.000000	No
			Fe	-0.000010	0.000000	No
			Mg	-0.000001	0.000000	No
			Ca	0.000003	0.000000	No
			W	0.000576	0.000000	No
Pd 340.458 { 99}	☒	10	Ti	-0.000684	0.000000	No
			V	-0.000048	0.000000	No
			Sn	-0.000006	0.000000	No
			Fe	-0.000060	0.000000	No
			Mo	-0.000320	0.000000	No
			Co	-0.005883	0.000000	No
			Ca	-0.000021	0.000000	No
			S	-0.000017	0.000000	No
			Si	-0.000040	0.000000	No
			Zr	-0.157000	0.000000	No
Si 212.412 {459}	☒	19	Sr	0.000366	0.000000	No
			Ni	0.000106	0.000000	No
			Mo	0.027230	0.000000	No
			V	-0.000190	0.000000	No
			Ti	0.043950	0.000000	No
			Al	0.000049	0.000000	No
			Cd	0.008630	0.000000	No
			Ba	0.000000	0.000000	No
			Fe	0.000129	0.000000	No
			Sn	0.007000	0.000000	No
			Zn	0.000385	0.000000	No
			As	0.002500	0.000000	No
			Mg	-0.000185	0.000000	No
			W	-0.007198	0.000000	No

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
			Ca	0.000078	0.000000	No
			Cr	0.001600	0.000000	No
			Mn	0.001000	0.000000	No
			Zr	0.000540	0.000000	No
			B	0.001900	0.000000	No
Sn 189.989 {478}	☒	6	Ti	-0.002020	0.000000	No
			Mo	0.000011	0.000000	No
			Fe	0.000018	0.000000	No
			Mn	0.000001	0.000000	No
			Si	0.000131	0.000000	No
			Al	-0.000004	0.000000	No
Sr 407.771 { 83}	☒	2	Fe	0.000000	0.000000	No
			Ca	0.000047	0.000000	No
Ti 334.904 {101}	☒	4	Cr	0.000204	0.000000	No
			Mo	0.000870	0.000000	No
			Si	0.000035	0.000000	No
			Ca	0.000005	0.000000	No
Y 360.073 { 94}* Y 371.030 { 91}* Y 224.306 {451}* In 230.606 {446}* W 207.911 {462}	☒ ☒ ☒ ☒ ☒	None None None None 27				
			Al	0.000005	0.000000	No
			Si	-0.000117	0.000000	No
			Ca	-0.000004	0.000000	No
			Fe	-0.000039	0.000000	No
			As	-0.000220	0.000000	No
			Mg	-0.000005	0.000000	No
			Mn	-0.000070	0.000000	No
			Mo	0.000710	0.000000	No
			Ti	0.000000	0.000000	No
			Sr	0.000000	0.000000	No
			V	0.001000	0.000000	No
			Cd	-0.000650	0.000000	No
			Cr	-0.000001	0.000000	No
			Zn	0.009921	0.000000	No
			Pd	0.000000	0.000000	No
			Sn	-0.000500	0.000000	No
			Zr	-0.001000	0.000000	No
			B	0.000000	0.000000	No
			Sb	0.000000	0.000000	No
			Co	-0.002830	0.000000	No
			Ni	0.000000	0.000000	No
			Be	-0.001000	0.000000	No
			Se	0.000000	0.000000	No
			Cu	-0.002860	0.000000	No
			Ba	0.000000	0.000000	No
			Tl	0.000000	0.000000	No
			Pb	0.000000	0.000000	No
Zr 339.198 { 99}	☒	10	Mo	0.000250	0.000000	No
			Ti	0.000000	0.000000	No
			Fe	-0.000068	0.000000	No
			Si	0.000125	0.000000	No
			S	0.000039	0.000000	No
			Pd	0.000000	0.000000	No
			Be	-0.000500	0.000000	No
			Bi	0.000000	0.000000	No
			Ba	0.000700	0.000000	No

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
S 182.034 {485}	☒	6	Ag	0.000000	0.000000	No
			Ca	0.000065	0.000000	No
			Mo	0.000000	0.000000	No
			Al	-0.000129	0.000000	No
			Fe	-0.000043	0.000000	No
			Mn	0.003160	0.000000	No
Bi 223.061 {451}	☒	4	Mg	0.000004	0.000000	No
			Fe	0.000035	0.000000	No
			Ti	-0.002890	0.000000	No
			V	-0.000680	0.000000	No
			Cr	0.001100	0.000000	No
			Mg	0.000006	0.000000	No
Li 670.784 {50}	☒	1	Mg	0.000006	0.000000	No

Element, Wavelength and Order	Date of Fit	Date of Cal.	Type of Fit	Weighting	A0	A1	A2	n (Exponent)
Ba 455.403 { 74}	6/3/2014 18:43:47	6/3/2014 18:43:47	Linear	1/Conc	0.000634	1.403844	0.000000	1.000000
Be 313.042 {108}	6/3/2014 18:43:47	6/3/2014 18:43:47	Linear	1/Conc	-0.000099	3.281729	0.000000	1.000000
Cd 228.802 {448}	6/3/2014 18:43:47	6/3/2014 18:43:47	Linear	1/Conc	0.000735	1.106416	0.000000	1.000000
Co 228.616 {448}	6/3/2014 18:43:47	6/3/2014 18:43:47	Linear	1/Conc	-0.000465	0.461592	0.000000	1.000000
Cr 267.716 {126}	6/3/2014 18:43:47	6/3/2014 18:43:47	Linear	1/Conc	-0.000004	0.074693	0.000000	1.000000
Cu 324.754 {104}2	6/3/2014 18:43:47	6/3/2014 18:43:47	Linear	1/Conc	0.005357	0.249803	0.000000	1.000000
Mn 257.610 {131}	6/3/2014 18:43:47	6/3/2014 18:43:47	Linear	1/Conc	0.000079	0.402514	0.000000	1.000000
Ni 231.604 {446}	6/3/2014 18:43:47	6/3/2014 18:43:47	Linear	1/Conc	0.001569	0.349421	0.000000	1.000000
Ag 328.068 {103}	6/3/2014 18:43:47	6/3/2014 18:43:47	Linear	1/Conc	-0.000069	0.122431	0.000000	1.000000
V 292.402 {115}	6/3/2014 18:43:47	6/3/2014 18:43:47	Linear	1/Conc	-0.000084	0.130299	0.000000	1.000000
Zn 206.200 {464}	6/3/2014 18:43:47	6/3/2014 18:43:47	Linear	1/Conc	0.000211	0.835531	0.000000	1.000000
As 189.042 {478}	6/3/2014 18:43:47	6/3/2014 18:43:47	Linear	1/Conc	-0.001628	0.164614	0.000000	1.000000
Tl 190.856 {477}	6/3/2014 18:43:47	6/3/2014 18:43:47	Linear	1/Conc	-0.000429	0.048299	0.000000	1.000000
Pb 220.353 {453}	6/3/2014 18:43:47	6/3/2014 18:43:47	Linear	1/Conc	-0.000166	0.135508	0.000000	1.000000
Se 196.090 {472}	6/3/2014 18:43:47	6/3/2014 18:43:47	Linear	1/Conc	0.001121	0.063207	0.000000	1.000000
Sb 206.833 {463}	6/3/2014 18:43:47	6/3/2014 18:43:47	Linear	1/Conc	0.000500	0.254271	0.000000	1.000000
Al 396.152 { 85}	6/3/2014 18:43:47	6/3/2014 18:43:47	Linear	1/Conc	-0.000008	0.028163	0.000000	1.000000
Ca 317.933 {106}	6/3/2014 18:43:47	6/3/2014 18:43:47	Linear	1/Conc	0.005615	0.065230	0.000000	1.000000
Fe 259.940 {130}	6/3/2014 18:43:47	6/3/2014 18:43:47	Linear	1/Conc	0.000162	0.045774	0.000000	1.000000
Mg 279.079 {121}	6/3/2014 18:43:47	6/3/2014 18:43:47	Linear	1/Conc	-0.000116	0.006505	0.000000	1.000000
K 766.490 { 44}	6/3/2014 18:43:47	6/3/2014 18:43:47	Linear	1/Conc	0.000302	0.016107	0.000000	1.000000
Na 589.592 { 57}	6/3/2014 18:43:47	6/3/2014 18:43:47	Linear	1/Conc	0.000866	0.066439	0.000000	1.000000
B 208.959 {462}	6/3/2014 18:43:47	6/3/2014 18:43:47	Linear	1/Conc	0.001472	0.269863	0.000000	1.000000
Mo 202.030 {467}	6/3/2014 18:43:47	6/3/2014 18:43:47	Linear	1/Conc	0.000747	1.013573	0.000000	1.000000
Pd 340.458 { 99}	6/3/2014 18:43:47	6/3/2014 18:43:47	Linear	1/Conc	-0.000107	0.058692	0.000000	1.000000
Si 212.412 {459}	6/3/2014 18:43:47	6/3/2014 18:43:47	Linear	1/Conc	0.007727	0.304269	0.000000	1.000000
Sn 189.989 {478}	6/3/2014 18:43:47	6/3/2014 18:43:47	Linear	1/Conc	0.000302	0.183581	0.000000	1.000000
Sr 407.771 { 83}	6/3/2014 18:43:47	6/3/2014 18:43:47	Linear	1/Conc	-0.000413	2.650828	0.000000	1.000000
Ti 334.904 {101}	6/3/2014 18:43:47	6/3/2014 18:43:47	Linear	1/Conc	-0.000200	0.129414	0.000000	1.000000
Y 360.073 { 94}*	10/25/2013 12:00:44	12/23/2009 10:44:16	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
Y 371.030 { 91}*	9/12/2013 9:42:19	12/23/2009 10:44:16	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
Y 224.306 {451}*	4/16/2014 11:15:37	12/23/2009 10:44:16	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
In 230.606 {446}*	1/2/2014 9:54:11	12/23/2009 10:44:16	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
W 207.911 {462}	6/3/2014 18:43:47	6/3/2014 18:43:47	Linear	1/Conc	0.002756	0.459692	0.000000	1.000000
Zr 339.198 { 99}	6/3/2014 18:43:47	6/3/2014 18:43:47	Linear	1/Conc	-0.000091	0.267837	0.000000	1.000000
S 182.034 {485}	6/3/2014 18:43:47	6/3/2014 18:43:47	Linear	1/Conc	-0.003159	0.064059	0.000000	1.000000
Bi 223.061 {451}	6/3/2014 18:43:47	6/3/2014 18:43:47	Linear	1/Conc	-0.000941	0.332357	0.000000	1.000000
Li 670.784 { 50}	6/3/2014 18:43:47	6/3/2014 18:43:47	Linear	1/Conc	0.001197	0.564462	0.000000	1.000000

Element, Wavelength and Order	Correlation	Std Error of Est	Predicted MDL	Predicted MQL	Status	Reslope		QC Norm	
						Slope	Y-int	Slope factor	Offset
Ba 455.403 { 74}	1.000000	0.000000	0.000192	0.000639	OK	1.000000	0.000000	1	0
Be 313.042 {108}	1.000000	0.000000	0.000039	0.000131	OK	1.000000	0.000000	1	0
Cd 228.802 {448}	1.000000	0.000000	0.000185	0.000617	OK	1.000000	0.000000	1	0
Co 228.616 {448}	1.000000	0.000000	0.000267	0.000889	OK	1.000000	0.000000	1	0
Cr 267.716 {126}	1.000000	0.000000	0.000320	0.001065	OK	1.000000	0.000000	1	0
Cu 324.754 {104}2	1.000000	0.000000	0.000236	0.000786	OK	1.000000	0.000000	1	0
Mn 257.610 {131}	1.000000	0.000000	0.000050	0.000168	OK	1.000000	0.000000	1	0
Ni 231.604 {446}	1.000000	0.000000	0.000321	0.001071	OK	1.000000	0.000000	1	0
Ag 328.068 {103}	1.000000	0.000000	0.000387	0.001289	OK	1.000000	0.000000	1	0
V 292.402 {115}	1.000000	0.000000	0.000241	0.000803	OK	1.000000	0.000000	1	0
Zn 206.200 {464}	1.000000	0.000000	0.000213	0.000710	OK	1.000000	0.000000	1	0
As 189.042 {478}	1.000000	0.000000	0.001080	0.003599	OK	1.000000	0.000000	1	0
Tl 190.856 {477}	1.000000	0.000000	0.001349	0.004497	OK	1.000000	0.000000	1	0
Pb 220.353 {453}	1.000000	0.000000	0.001201	0.004005	OK	1.000000	0.000000	1	0
Se 196.090 {472}	1.000000	0.000000	0.003166	0.010552	OK	1.000000	0.000000	1	0
Sb 206.833 {463}	1.000000	0.000000	0.000987	0.003289	OK	1.000000	0.000000	1	0
Al 396.152 { 85}	1.000000	0.000000	0.007634	0.025447	OK	1.000000	0.000000	1	0
Ca 317.933 {106}	1.000000	0.000000	0.002180	0.007266	OK	1.000000	0.000000	1	0
Fe 259.940 {130}	1.000000	0.000000	0.001608	0.005361	OK	1.000000	0.000000	1	0
Mg 279.079 {121}	1.000000	0.000000	0.014712	0.049038	OK	1.000000	0.000000	1	0
K 766.490 { 44}	1.000000	0.000000	0.027524	0.091745	OK	1.000000	0.000000	1	0
Na 589.592 { 57}	1.000000	0.000000	0.006025	0.020082	OK	1.000000	0.000000	1	0
B 208.959 {462}	1.000000	0.000000	0.000599	0.001997	OK	1.000000	0.000000	1	0
Mo 202.030 {467}	1.000000	0.000000	0.000217	0.000724	OK	1.000000	0.000000	1	0
Pd 340.458 { 99}	1.000000	0.000000	0.000748	0.002492	OK	1.000000	0.000000	1	0
Si 212.412 {459}	1.000000	0.000000	0.000814	0.002712	OK	1.000000	0.000000	1	0
Sn 189.989 {478}	1.000000	0.000000	0.000779	0.002598	OK	1.000000	0.000000	1	0
Sr 407.771 { 83}	1.000000	0.000000	0.000071	0.000237	OK	1.000000	0.000000	1	0
Ti 334.904 {101}	1.000000	0.000000	0.000341	0.001136	OK	1.000000	0.000000	1	0
Y 360.073 { 94}*	0.000000	0.000000	-1.000000	-1.000000	Warnin	1.000000	0.000000	1	0
Y 371.030 { 91}*	0.000000	0.000000	-1.000000	-1.000000	Warnin	1.000000	0.000000	1	0
Y 224.306 {451}*	0.000000	0.000000	-1.000000	-1.000000	Warnin	1.000000	0.000000	1	0
In 230.606 {446}*	0.000000	0.000000	-1.000000	-1.000000	Warnin	1.000000	0.000000	1	0
W 207.911 {462}	1.000000	0.000000	0.000958	0.003194	OK	1.000000	0.000000	1	0
Zr 339.198 { 99}	1.000000	0.000000	0.000156	0.000521	OK	1.000000	0.000000	1	0
S 182.034 {485}	1.000000	0.000000	0.002790	0.009300	OK	1.000000	0.000000	1	0
Bi 223.061 {451}	1.000000	0.000000	0.001025	0.003417	OK	1.000000	0.000000	1	0
Li 670.784 { 50}	1.000000	0.000000	0.000737	0.002455	OK	1.000000	0.000000	1	0

MA34168

Method: ACCUTEST

Operator: Admin

Date of Analysis: 05 Jun 2014 12:13:41

Sample ID	Date	Type	Units	Conc.	μ Abs.	Wt.	Vol.
STDA 1 - 1	05 Jun 2014 12:14:04	Std	ug/l	-	-2	1.000	1.000
STDB - 1	05 Jun 2014 12:15:22	Std	ug/l	-	722	1.000	1.000
STDC - 1	05 Jun 2014 12:16:39	Std	ug/l	-	1863	1.000	1.000
STDD - 1	05 Jun 2014 12:17:59	Std	ug/l	-	3685	1.000	1.000
STDE - 1	05 Jun 2014 12:19:22	Std	ug/l	-	9882	1.000	1.000
STDF - 1	05 Jun 2014 12:20:50	Std	ug/l	-	19699	1.000	1.000
ICV - 1	05 Jun 2014 12:25:41	SMPL	ug/l	2.8953	11369	1.000	1.000
ICB - 1	05 Jun 2014 12:26:57	SMPL	ug/l	-0.0323	-226	1.000	1.000
CCV - 1	05 Jun 2014 12:28:33	CK STND	ug/l	99.4% 2.4855	9746	1.000	1.000
CCB - 1	05 Jun 2014 12:29:49	CK STND	ug/l	-0.0377	-247	1.000	1.000
CRIB - 1	05 Jun 2014 12:31:23	SMPL	ug/l	0.2063	719	1.000	1.000
MP79894-MB1 - 1	05 Jun 2014 12:53:59	SMPL	ug/l	-0.0091	-134	1.000	1.000
MP79894-LC1 - 1	05 Jun 2014 12:55:18	SMPL	ug/l	2.0275	7932	1.000	1.000
MP79894-S1 - 1	05 Jun 2014 12:56:34	SMPL	ug/l	2.3651	9269	1.000	1.000
MP79894-S2 - 1	05 Jun 2014 12:58:07	SMPL	ug/l	2.3227	9101	1.000	1.000
JB68374-7A - 1	05 Jun 2014 12:59:39	SMPL	ug/l	0.0171	-30	1.000	1.000
JB68374-8A - 1	05 Jun 2014 13:01:12	SMPL	ug/l	0.0361	45	1.000	1.000
JB68374-9A - 1	05 Jun 2014 13:02:31	SMPL	ug/l	0.0356	43	1.000	1.000
JB68239-1 - 1	05 Jun 2014 13:03:50	SMPL	ug/l	0.0411	65	1.000	1.000
JB68239-2 - 1	05 Jun 2014 13:05:09	SMPL	ug/l	0.0555	122	1.000	1.000
CCV - 1	05 Jun 2014 13:06:27	CK STND	ug/l	99.0% 2.4744	9702	1.000	1.000
CCB - 1	05 Jun 2014 13:07:43	CK STND	ug/l	-0.0354	-238	1.000	1.000
JB68239-3 - 1	05 Jun 2014 13:09:19	SMPL	ug/l	0.0285	15	1.000	1.000
JB68239-4 - 1	05 Jun 2014 13:10:35	SMPL	ug/l	0.0245	-1	1.000	1.000
MP79895-MB1 4 - 1	05 Jun 2014 13:11:51	SMPL	ug/l	0.0199	-19	1.000	1.000
MP79895-LC1 - 1	05 Jun 2014 13:13:08	SMPL	ug/l	2.0159	7886	1.000	1.000
MP79895-S1 - 1	05 Jun 2014 13:14:24	SMPL	ug/l	2.1777	8527	1.000	1.000
MP79895-S2 - 1	05 Jun 2014 13:15:57	SMPL	ug/l	2.3169	9078	1.000	1.000
C34314-1 - 1	05 Jun 2014 13:17:28	SMPL	ug/l	-0.0008	-101	1.000	1.000
MP79896-MB1 2 - 1	05 Jun 2014 13:19:01	SMPL	ug/l	0.0106	-56	1.000	1.000
MP79896-LC1 - 1	05 Jun 2014 13:20:20	SMPL	ug/l	1.9530	7637	1.000	1.000
JB67819-1A - 1	05 Jun 2014 13:21:37	SMPL	ug/l	0.0045	-80	1.000	1.000
CCV - 1	05 Jun 2014 13:23:11	CK STND	ug/l	97.5% 2.4383	9559	1.000	1.000
CCB - 1	05 Jun 2014 13:24:29	CK STND	ug/l	-0.0344	-234	1.000	1.000
JB67822-10 - 1	05 Jun 2014 13:26:05	SMPL	ug/l	0.0389	56	1.000	1.000
JB67991-16 - 1	05 Jun 2014 13:27:22	SMPL	ug/l	0.0351	41	1.000	1.000
JB67991-21 - 1	05 Jun 2014 13:28:42	SMPL	ug/l	0.0358	44	1.000	1.000
JB68265-22 - 1	05 Jun 2014 13:30:00	SMPL	ug/l	0.0318	28	1.000	1.000
JB67898-4 - 1	05 Jun 2014 13:31:17	SMPL	ug/l	0.0431	73	1.000	1.000
JB67897-7 - 1	05 Jun 2014 13:32:35	SMPL	ug/l	0.0439	76	1.000	1.000
JB67912-11A - 1	05 Jun 2014 13:33:53	SMPL	ug/l	0.0424	70	1.000	1.000
JB67976-6 - 1	05 Jun 2014 13:35:11	SMPL	ug/l	0.0394	58	1.000	1.000
JB67981-14 - 1	05 Jun 2014 13:36:29	SMPL	ug/l	0.0288	16	1.000	1.000
JB64500-35 - 1	05 Jun 2014 13:37:45	SMPL	ug/l	0.0323	30	1.000	1.000
CCV - 1	05 Jun 2014 13:39:02	CK STND	ug/l	98.2% 2.4550	9625	1.000	1.000
CCB - 1	05 Jun 2014 13:40:19	CK STND	ug/l	-0.0344	-234	1.000	1.000
JB68173-15 - 1	05 Jun 2014 13:41:54	SMPL	ug/l	0.0376	51	1.000	1.000
MP79897-MB1 - 1	05 Jun 2014 13:43:11	SMPL	ug/l	0.0136	-44	1.000	1.000
MP79897-LC1 - 1	05 Jun 2014 13:44:29	SMPL	ug/l	1.9788	7739	1.000	1.000
MP79897-S1 - 1	05 Jun 2014 13:45:47	SMPL	ug/l	2.0861	8164	1.000	1.000
MP79897-S2 - 1	05 Jun 2014 13:47:21	SMPL	ug/l	2.0644	8078	1.000	1.000
JB68356-14 - 1	05 Jun 2014 13:48:50	SMPL	ug/l	7.6983	30391	1.000	1.000
JB68042-1F - 1	05 Jun 2014 13:50:20	SMPL	ug/l	-0.0634	-349	1.000	1.000
JB68042-2F - 1	05 Jun 2014 13:52:00	SMPL	ug/l	-0.0033	-111	1.000	1.000
JB68042-3F - 1	05 Jun 2014 13:53:17	SMPL	ug/l	0.0144	-41	1.000	1.000
JB67881-1 - 1	05 Jun 2014 13:54:35	SMPL	ug/l	0.0484	94	1.000	1.000
CCV - 1	05 Jun 2014 13:55:52	CK STND	ug/l	104.9% 2.6234	10292	1.000	1.000
CCB - 1	05 Jun 2014 13:57:09	CK STND	ug/l	-0.0346	-235	1.000	1.000
JB67881-3 - 1	05 Jun 2014 13:58:44	SMPL	ug/l	0.0492	97	1.000	1.000
JB67912-12A - 1	05 Jun 2014 14:00:01	SMPL	ug/l	0.3961	1471	1.000	1.000
JB67912-14A - 1	05 Jun 2014 14:01:20	SMPL	ug/l	-0.0212	-182	1.000	1.000
JB67912-15A - 1	05 Jun 2014 14:02:41	SMPL	ug/l	0.9746	3762	1.000	1.000
JB68004-1 - 1	05 Jun 2014 14:03:59	SMPL	ug/l	-0.0134	-151	1.000	1.000
JB68022-1 - 1	05 Jun 2014 14:05:26	SMPL	ug/l	0.0358	44	1.000	1.000
JB67999-1A - 1	05 Jun 2014 14:06:44	SMPL	ug/l	0.0510	104	1.000	1.000
JB67999-2A - 1	05 Jun 2014 14:08:03	SMPL	ug/l	0.0507	103	1.000	1.000
JB67999-4A - 1	05 Jun 2014 14:09:22	SMPL	ug/l	0.2282	806	1.000	1.000
JB67999-25A - 1	05 Jun 2014 14:10:40	SMPL	ug/l	0.1421	465	1.000	1.000
CCV - 1	05 Jun 2014 14:12:00	CK STND	ug/l	101.8% 2.5439	9977	1.000	1.000

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Method: ACCUTEST

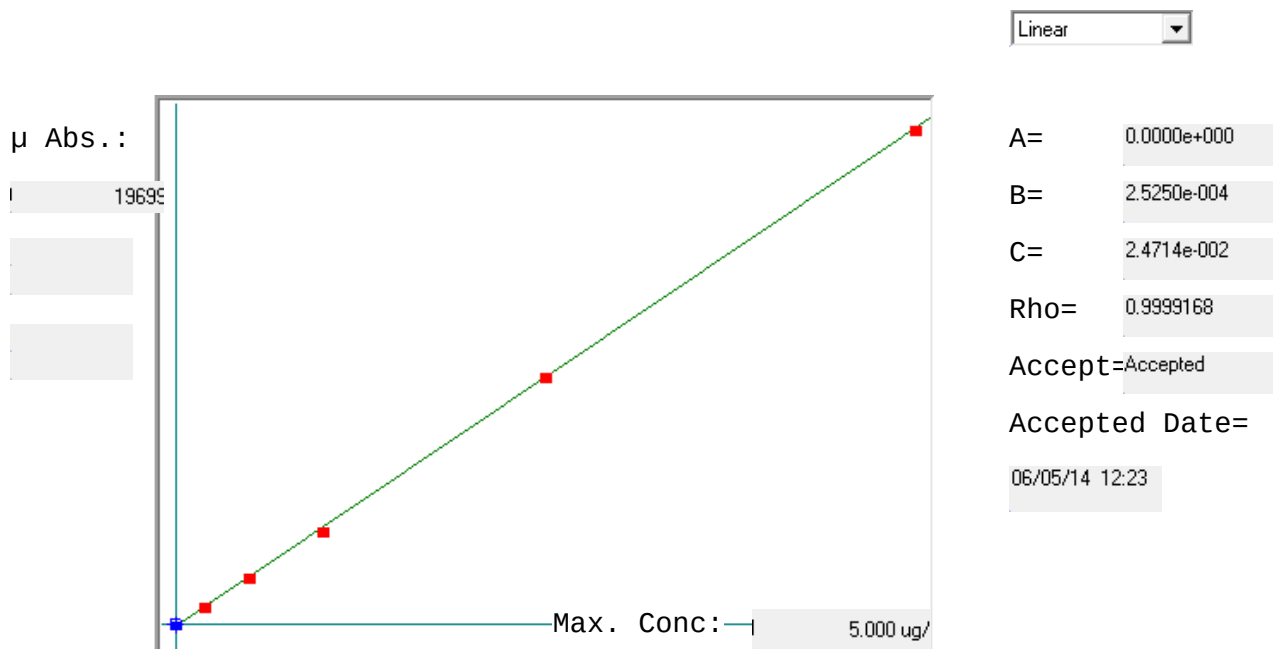
Operator: Admin

Date of Analysis: 05 Jun 2014 12:13:41

Sample ID	Date	Type	Units	Conc.	μ Abs.	Wt.	Vol.
CCB - 1	05 Jun 2014 14:13:18	CK STND	ug/l	-0.0306	-219	1.000	1.000
JB68108-1 - 1	05 Jun 2014 14:14:54	SMPL	ug/l	0.0522	109	1.000	1.000
JB68128-1 - 1	05 Jun 2014 14:16:11	SMPL	ug/l	0.0406	63	1.000	1.000
JB68128-2 - 1	05 Jun 2014 14:17:30	SMPL	ug/l	0.0724	189	1.000	1.000
JB68166-2 - 1	05 Jun 2014 14:18:48	SMPL	ug/l	0.2045	712	1.000	1.000
JB68166-4 - 1	05 Jun 2014 14:20:07	SMPL	ug/l	0.1570	524	1.000	1.000
MP79853-MB2 - 1	05 Jun 2014 14:21:26	SMPL	ug/l	-0.0127	-148	1.000	1.000
MP79853-LC2 - 1	05 Jun 2014 14:22:46	SMPL	ug/l	1.9894	7781	1.000	1.000
JB68078-1B - 1	05 Jun 2014 14:24:03	SMPL	ug/l	2.5206	9885	1.000	1.000
MP79899-MB1 - 1	05 Jun 2014 14:25:39	SMPL	ug/l	-0.0250	-197	1.000	1.000
MP79899-B1 - 1	05 Jun 2014 14:27:12	SMPL	ug/l	1.9563	7650	1.000	1.000
CCV - 1	05 Jun 2014 14:28:29	CK STND	ug/l	99.8% 2.4951	9784	1.000	1.000
CCB - 1	05 Jun 2014 14:30:02	CK STND	ug/l	-0.0346	-235	1.000	1.000
MP79899-S1 - 1	05 Jun 2014 14:31:38	SMPL	ug/l	2.2401	8774	1.000	1.000
MP79899-S2 - 1	05 Jun 2014 14:32:55	SMPL	ug/l	2.2280	8726	1.000	1.000
JB68196-1 - 1	05 Jun 2014 14:34:27	SMPL	ug/l	-0.0015	-104	1.000	1.000
MP79900-MB1 - 1	05 Jun 2014 14:36:00	SMPL	ug/l	0.0053	-77	1.000	1.000
MP79900-B1 - 1	05 Jun 2014 14:37:18	SMPL	ug/l	1.9179	7498	1.000	1.000
MP79900-S1 - 1	05 Jun 2014 14:38:35	SMPL	ug/l	1.4965	5829	1.000	1.000
MP79900-S2 - 1	05 Jun 2014 14:40:11	SMPL	ug/l	1.3859	5391	1.000	1.000
JB68216-1 - 1	05 Jun 2014 14:41:41	SMPL	ug/l	0.0141	-42	1.000	1.000
JB68216-2 - 1	05 Jun 2014 14:43:12	SMPL	ug/l	1.4697	5723	1.000	1.000
JB68216-3 - 1	05 Jun 2014 14:44:31	SMPL	ug/l	-0.0212	-182	1.000	1.000
CCV - 1	05 Jun 2014 14:46:04	CK STND	ug/l	101.4% 2.5353	9943	1.000	1.000
CCB - 1	05 Jun 2014 14:47:21	CK STND	ug/l	-0.0207	-180	1.000	1.000
JB68216-4 - 1	05 Jun 2014 14:48:57	SMPL	ug/l	0.0399	60	1.000	1.000
JB68216-5 - 1	05 Jun 2014 14:50:15	SMPL	ug/l	0.0313	26	1.000	1.000
JB68216-6 - 1	05 Jun 2014 14:51:33	SMPL	ug/l	0.0298	20	1.000	1.000
JB68216-7 - 1	05 Jun 2014 14:52:51	SMPL	ug/l	0.3128	1141	1.000	1.000
JB68216-8 - 1	05 Jun 2014 14:54:08	SMPL	ug/l	-0.0657	-358	1.000	1.000
JB68216-9 - 1	05 Jun 2014 14:55:50	SMPL	ug/l	0.0227	-8	1.000	1.000
JB68078-2B - 1	05 Jun 2014 14:57:08	SMPL	ug/l	0.0522	109	1.000	1.000
MP79821-MB3 - 1	05 Jun 2014 14:58:25	SMPL	ug/l	-0.0026	-108	1.000	1.000
MP79821-LC2 - 1	05 Jun 2014 14:59:43	SMPL	ug/l	1.9558	7648	1.000	1.000
JB68076-1A - 1	05 Jun 2014 15:01:00	SMPL	ug/l	-0.0167	-164	1.000	1.000
CCV - 1	05 Jun 2014 15:02:36	CK STND	ug/l	99.5% 2.4871	9752	1.000	1.000
CCB - 1	05 Jun 2014 15:03:52	CK STND	ug/l	-0.0238	-192	1.000	1.000
MP79871-MB2 - 1	05 Jun 2014 15:05:28	SMPL	ug/l	0.0179	-27	1.000	1.000
MP79871-LC2 - 1	05 Jun 2014 15:06:46	SMPL	ug/l	1.9715	7710	1.000	1.000
JB68325-1A - 1	05 Jun 2014 15:08:03	SMPL	ug/l	-0.0091	-134	1.000	1.000
JB68356-14A - 1	05 Jun 2014 15:09:37	SMPL	ug/l	3.8417	15117	1.000	1.000
MP79901-MB1 - 1	05 Jun 2014 15:10:56	SMPL	ug/l	-0.0321	-225	1.000	1.000
MP79901-B1 - 1	05 Jun 2014 15:12:32	SMPL	ug/l	2.0129	7874	1.000	1.000
MP79901-S1 - 1	05 Jun 2014 15:13:49	SMPL	ug/l	2.2659	8876	1.000	1.000
MP79901-S2 - 1	05 Jun 2014 15:15:23	SMPL	ug/l	2.2888	8967	1.000	1.000
JB68325-2A - 1	05 Jun 2014 15:16:56	SMPL	ug/l	-0.0026	-108	1.000	1.000
JB68304-1 - 1	05 Jun 2014 15:18:31	SMPL	ug/l	0.0444	78	1.000	1.000
CCV - 1	05 Jun 2014 15:19:50	CK STND	ug/l	99.1% 2.4785	9718	1.000	1.000
CCB - 1	05 Jun 2014 15:21:07	CK STND	ug/l	-0.0230	-189	1.000	1.000
JB68356-1A - 1	05 Jun 2014 15:22:44	SMPL	ug/l	1.2718	4939	1.000	1.000
JB68356-7A - 1	05 Jun 2014 15:24:01	SMPL	ug/l	1.6313	6363	1.000	1.000
JB68330-2A - 1	05 Jun 2014 15:25:30	SMPL	ug/l	-0.0071	-126	1.000	1.000
JB68330-3A - 1	05 Jun 2014 15:27:02	SMPL	ug/l	0.0156	-36	1.000	1.000
CRIB - 1	05 Jun 2014 15:39:18	SMPL	ug/l	0.1989	690	1.000	1.000
JB68356-14 - 1	05 Jun 2014 15:45:48	SMPL	ug/l	8.0732	15889	1.000	2.000
MP79893-FMB1CONF - 1	05 Jun 2014 15:47:06	SMPL	ug/l	-0.0268	-204	1.000	1.000
MP79893-FLC1CONF - 1	05 Jun 2014 15:48:41	SMPL	ug/l	1.9798	7743	1.000	1.000
CCV - 1	05 Jun 2014 16:07:40	CK STND	ug/l	101.3% 2.5320	9930	1.000	1.000
CCB - 1	05 Jun 2014 16:08:57	CK STND	ug/l	-0.0293	-214	1.000	1.000

11.4 11

ACCUTEST



Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
STDA	0.000	0.024	0.024	-2	0.000	-2				
STDB	0.200	0.207	0.007	722	0.0 %	722				
STDC	0.500	0.495	-0.005	1863	0.0 %	1863				
STDD	1.000	0.955	-0.045	3685	0.0 %	3685				
STDE	2.500	2.520	0.020	9882	0.0 %	9882				
STDF	5.000	4.999	-0.001	19699	0.0 %	19699				

MA34211

Method: ACCUTEST

Operator: Admin

Date of Analysis: 11 Jun 2014 11:14:54

Sample ID	Date	Type	Units	Conc.	μ Abs.	Wt.	Vol.
STDA - 1	11 Jun 2014 11:18:14	Std	ug/l	-	215	1.000	1.000
STDB - 1	11 Jun 2014 11:22:36	Std	ug/l	-	1641	1.000	1.000
STDC - 1	11 Jun 2014 11:23:55	Std	ug/l	-	3850	1.000	1.000
STDD - 1	11 Jun 2014 11:25:15	Std	ug/l	-	7304	1.000	1.000
STDE - 1	11 Jun 2014 11:26:35	Std	ug/l	-	18536	1.000	1.000
STDF - 1	11 Jun 2014 11:27:59	Std	ug/l	-	35530	1.000	1.000
ICV - 1	11 Jun 2014 11:32:40	SMPL	ug/l	3.0457	21906	1.000	1.000
ICB - 1	11 Jun 2014 11:33:59	SMPL	ug/l	-0.0167	185	1.000	1.000
CCV - 1	11 Jun 2014 11:35:31	CK STND	ug/l	105.0% 2.6240	18915	1.000	1.000
CCB - 1	11 Jun 2014 11:36:47	CK STND	ug/l	-0.0249	127	1.000	1.000
CRI - 1	11 Jun 2014 11:38:15	SMPL	ug/l	0.1658	1480	1.000	1.000
LODCONF - 1	11 Jun 2014 11:51:58	SMPL	ug/l	0.1025	1031	1.000	1.000
LOQCONF - 1	11 Jun 2014 11:53:14	SMPL	ug/l	0.1883	1639	1.000	1.000
MP79976-MB1 - 1	11 Jun 2014 11:54:34	SMPL	ug/l	-0.0745	-225	1.000	1.000
MP79976-LC1 - 1	11 Jun 2014 11:55:53	SMPL	ug/l	6.4399	23142	1.000	2.000
MP79976-S1 - 1	11 Jun 2014 11:57:09	SMPL	ug/l	2.7399	19737	1.000	1.000
MP79976-S2 - 1	11 Jun 2014 11:58:41	SMPL	ug/l	2.4731	17845	1.000	1.000
JB67898-1 - 1	11 Jun 2014 12:00:00	SMPL	ug/l	2.8044	20195	1.000	1.000
JB67898-2 - 1	11 Jun 2014 12:01:30	SMPL	ug/l	0.0302	518	1.000	1.000
JB67897-1 - 1	11 Jun 2014 12:03:00	SMPL	ug/l	0.0574	711	1.000	1.000
CCV - 1	11 Jun 2014 12:04:20	CK STND	ug/l	108.9% 2.7231	19618	1.000	1.000
CCB - 1	11 Jun 2014 12:05:38	CK STND	ug/l	-0.0812	-272	1.000	1.000
JB67897-3 - 1	11 Jun 2014 12:07:07	SMPL	ug/l	0.1141	1113	1.000	1.000
JB67897-4 - 1	11 Jun 2014 12:08:25	SMPL	ug/l	0.5362	4107	1.000	1.000
JB67897-5 - 1	11 Jun 2014 12:09:45	SMPL	ug/l	1.1057	8146	1.000	1.000
JB67897-8 - 1	11 Jun 2014 12:11:05	SMPL	ug/l	1.7025	12379	1.000	1.000
JB67897-2A - 1	11 Jun 2014 12:12:25	SMPL	ug/l	1.0288	7601	1.000	1.000
JB67897-6A - 1	11 Jun 2014 12:13:52	SMPL	ug/l	1.4302	10448	1.000	1.000
JB67912-2A - 1	11 Jun 2014 12:15:11	SMPL	ug/l	1.4650	10695	1.000	1.000
JB67912-3A - 1	11 Jun 2014 12:16:31	SMPL	ug/l	1.3466	9855	1.000	1.000
JB67912-6A - 1	11 Jun 2014 12:17:55	SMPL	ug/l	5.6827	40610	1.000	1.000
JB67912-9A - 1	11 Jun 2014 12:19:21	SMPL	ug/l	0.5234	4016	1.000	1.000
CCV - 1	11 Jun 2014 12:20:56	CK STND	ug/l	(H)113.8% 2.8450	20483	1.000	1.000
CCB - 1	11 Jun 2014 12:22:15	CK STND	ug/l	-0.0599	-121	1.000	1.000
JB67912-20A - 1	11 Jun 2014 12:23:44	SMPL	ug/l	0.7868	5884	1.000	1.000
JB67912-22A - 1	11 Jun 2014 12:25:01	SMPL	ug/l	0.2074	1775	1.000	1.000
JB67912-24A - 1	11 Jun 2014 12:26:24	SMPL	ug/l	3.7314	26770	1.000	1.000
JB67912-28A - 1	11 Jun 2014 12:27:44	SMPL	ug/l	3.6487	26183	1.000	1.000
JB67912-29A - 1	11 Jun 2014 12:29:21	SMPL	ug/l	3.1726	22806	1.000	1.000
JB67912-31A - 1	11 Jun 2014 12:30:53	SMPL	ug/l	0.0755	839	1.000	1.000
JB67587-11R - 1	11 Jun 2014 12:32:24	SMPL	ug/l	4.0278	28872	1.000	1.000
JB67912-6A - 1	11 Jun 2014 12:33:43	SMPL	ug/l	5.3568	19301	1.000	2.000
MP79977-MB1 - 1	11 Jun 2014 12:37:25	SMPL	ug/l	-0.0424	3	1.000	1.000
CCV - 1	11 Jun 2014 12:38:42	CK STND	ug/l	(H)118.6% 2.9656	21338	1.000	1.000
CCB - 1	11 Jun 2014 12:39:57	CK STND	ug/l	-0.0737	-219	1.000	1.000
MP79977-LC1 - 1	11 Jun 2014 12:41:29	SMPL	ug/l	6.4757	23269	1.000	2.000
MP79977-S1 - 1	11 Jun 2014 12:42:47	SMPL	ug/l	2.1104	15272	1.000	1.000
MP79977-S2 - 1	11 Jun 2014 12:44:19	SMPL	ug/l	2.2006	15912	1.000	1.000
JB68561-1 - 1	11 Jun 2014 12:45:47	SMPL	ug/l	-0.0258	121	1.000	1.000
JB67929-1A - 1	11 Jun 2014 12:49:06	SMPL	ug/l	17.0939	121547	1.000	1.000
JB67929-2A - 1	11 Jun 2014 12:50:22	SMPL	ug/l	-0.0468	-28	1.000	1.000
JB67929-3A - 1	11 Jun 2014 12:52:08	SMPL	ug/l	0.1797	1578	1.000	1.000
JB67929-4A - 1	11 Jun 2014 12:53:27	SMPL	ug/l	0.3988	3132	1.000	1.000
JB67929-5A - 1	11 Jun 2014 12:54:48	SMPL	ug/l	0.3098	2501	1.000	1.000
JB67929-6A - 1	11 Jun 2014 12:56:11	SMPL	ug/l	0.1464	1342	1.000	1.000
CCV - 1	11 Jun 2014 12:57:31	CK STND	ug/l	108.7% 2.7187	19587	1.000	1.000
CCB - 1	11 Jun 2014 12:58:50	CK STND	ug/l	-0.1034	-430	1.000	1.000
JB67268-2 - 1	11 Jun 2014 13:00:18	SMPL	ug/l	-0.0190	169	1.000	1.000
JB67929-1A - 1	11 Jun 2014 13:05:02	SMPL	ug/l	17.3276	24884	1.000	5.000
JB67976-1 - 1	11 Jun 2014 13:06:18	SMPL	ug/l	-0.0255	123	1.000	1.000
JB67976-2 - 1	11 Jun 2014 13:07:52	SMPL	ug/l	-0.0038	277	1.000	1.000
JB67976-3 - 1	11 Jun 2014 13:09:11	SMPL	ug/l	-0.0045	272	1.000	1.000
JB67976-4 - 1	11 Jun 2014 13:10:30	SMPL	ug/l	0.0092	369	1.000	1.000
JB67976-5 - 1	11 Jun 2014 13:11:47	SMPL	ug/l	-0.0310	84	1.000	1.000
JB67976-8 - 1	11 Jun 2014 13:13:05	SMPL	ug/l	-0.0191	168	1.000	1.000
JB67976-9 - 1	11 Jun 2014 13:14:24	SMPL	ug/l	-0.0158	192	1.000	1.000
JB67976-10 - 1	11 Jun 2014 13:15:43	SMPL	ug/l	-0.0203	160	1.000	1.000
CCV - 1	11 Jun 2014 13:17:01	CK STND	ug/l	105.6% 2.6398	19027	1.000	1.000
CCB - 1	11 Jun 2014 13:18:17	CK STND	ug/l	-0.0451	-16	1.000	1.000

MA34211

Method: ACCUTEST

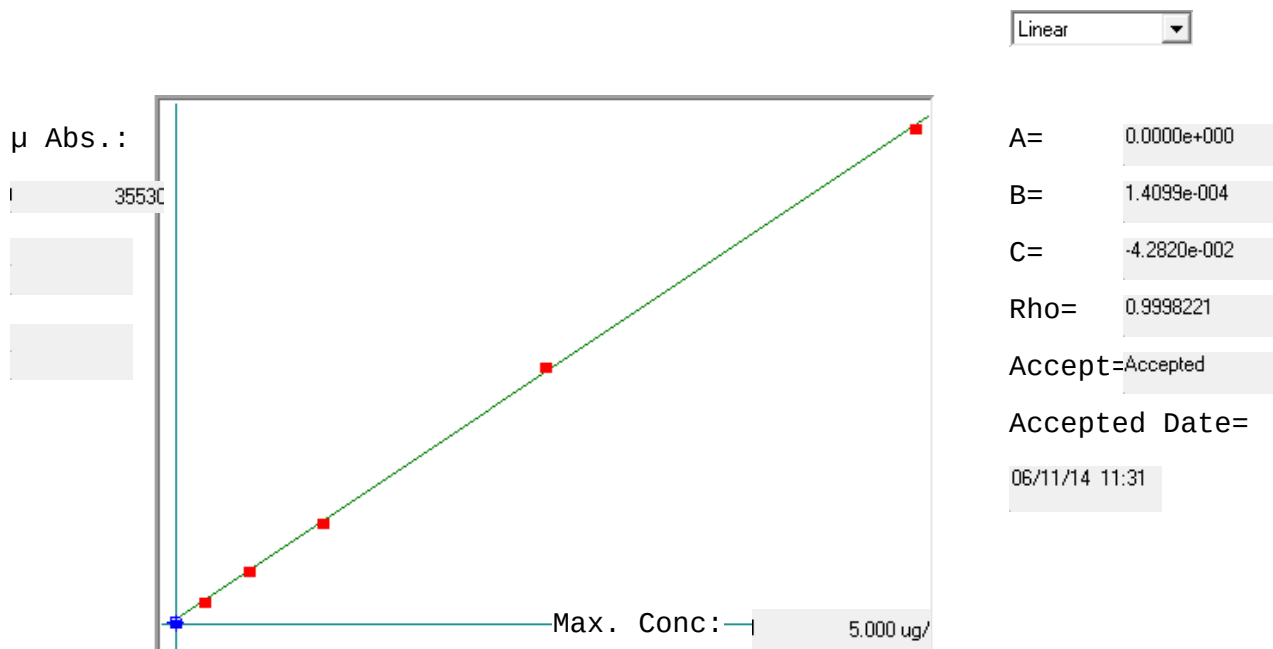
Operator: Admin

Date of Analysis: 11 Jun 2014 11:14:54

Sample ID	Date	Type	Units	Conc.	μ Abs.	Wt.	Vol.
JB67976-11 - 1	11 Jun 2014 13:19:45	SMPL	ug/l	-0.0286	101	1.000	1.000
JB67976-12 - 1	11 Jun 2014 13:21:05	SMPL	ug/l	-0.0159	191	1.000	1.000
JB68561-3 - 1	11 Jun 2014 13:22:22	SMPL	ug/l	-0.0258	121	1.000	1.000
JB68561-5 - 1	11 Jun 2014 13:23:40	SMPL	ug/l	-0.0183	174	1.000	1.000
MP79978-MB1 - 1	11 Jun 2014 13:44:37	SMPL	ug/l	-0.0252	125	1.000	1.000
MP79978-LC1 - 1	11 Jun 2014 13:45:54	SMPL	ug/l	6.2540	22483	1.000	2.000
MP79978-S1 - 1	11 Jun 2014 13:47:11	SMPL	ug/l	1.9609	14212	1.000	1.000
MP79978-S2 - 1	11 Jun 2014 13:48:36	SMPL	ug/l	2.1464	15528	1.000	1.000
JB68603-1A - 1	11 Jun 2014 13:50:06	SMPL	ug/l	-0.1008	-411	1.000	1.000
JB68602-1A - 1	11 Jun 2014 13:51:34	SMPL	ug/l	0.3047	2465	1.000	1.000
CCV - 1	11 Jun 2014 13:52:52	CK STND	ug/l	99.3% 2.4834	17918	1.000	1.000
CCB - 1	11 Jun 2014 13:54:11	CK STND	ug/l	-0.0933	-358	1.000	1.000
JB68604-1A - 1	11 Jun 2014 13:55:42	SMPL	ug/l	0.4845	3740	1.000	1.000
JB68822-1A - 1	11 Jun 2014 13:57:01	SMPL	ug/l	1.1650	8567	1.000	1.000
JB68823-1A - 1	11 Jun 2014 13:58:24	SMPL	ug/l	0.4810	3715	1.000	1.000
JB68824-1A - 1	11 Jun 2014 14:00:01	SMPL	ug/l	0.1842	1610	1.000	1.000
JB68829-1 - 1	11 Jun 2014 14:01:23	SMPL	ug/l	-0.0297	93	1.000	1.000
JB68829-2 - 1	11 Jun 2014 14:02:42	SMPL	ug/l	0.0295	513	1.000	1.000
JB68829-3 - 1	11 Jun 2014 14:04:01	SMPL	ug/l	0.4003	3143	1.000	1.000
JB68829-4 - 1	11 Jun 2014 14:05:20	SMPL	ug/l	0.0664	775	1.000	1.000
JB68829-5 - 1	11 Jun 2014 14:06:40	SMPL	ug/l	0.0210	453	1.000	1.000
JB67999-7A - 1	11 Jun 2014 14:08:00	SMPL	ug/l	0.3679	2913	1.000	1.000
CCV - 1	11 Jun 2014 14:09:18	CK STND	ug/l	(H)111.2% 2.7812	20030	1.000	1.000
CCB - 1	11 Jun 2014 14:10:37	CK STND	ug/l	-0.0650	-157	1.000	1.000
JB67999-11A - 1	11 Jun 2014 14:12:08	SMPL	ug/l	0.2833	2313	1.000	1.000
JB67999-13A - 1	11 Jun 2014 14:13:27	SMPL	ug/l	1.1233	8271	1.000	1.000
JB67999-18A - 1	11 Jun 2014 14:14:47	SMPL	ug/l	1.9436	14089	1.000	1.000
JB67999-21A - 1	11 Jun 2014 14:16:15	SMPL	ug/l	10.7065	76243	1.000	1.000
JB67999-22A - 1	11 Jun 2014 14:17:35	SMPL	ug/l	0.4740	3666	1.000	1.000
JB67941-1 - 1	11 Jun 2014 14:19:22	SMPL	ug/l	-0.0483	-39	1.000	1.000
MP79990-MB1 - 1	11 Jun 2014 14:20:44	SMPL	ug/l	-0.0444	-11	1.000	1.000
MP79990-LC1 - 1	11 Jun 2014 14:22:01	SMPL	ug/l	5.9523	21413	1.000	2.000
MP79990-S1 - 1	11 Jun 2014 14:23:19	SMPL	ug/l	2.2219	16063	1.000	1.000
MP79990-S2 - 1	11 Jun 2014 14:24:49	SMPL	ug/l	2.1673	15676	1.000	1.000
CCV - 1	11 Jun 2014 14:26:19	CK STND	ug/l	(H)111.2% 2.7796	20019	1.000	1.000
CCB - 1	11 Jun 2014 14:27:47	CK STND	ug/l	-0.0493	-46	1.000	1.000
JB67981-8 - 1	11 Jun 2014 14:29:17	SMPL	ug/l	0.4701	3638	1.000	1.000
JB67981-1 - 1	11 Jun 2014 14:30:35	SMPL	ug/l	0.4371	3404	1.000	1.000
JB67981-2 - 1	11 Jun 2014 14:31:55	SMPL	ug/l	0.3477	2770	1.000	1.000
JB67981-3 - 1	11 Jun 2014 14:33:15	SMPL	ug/l	0.3837	3025	1.000	1.000
JB67981-4 - 1	11 Jun 2014 14:34:35	SMPL	ug/l	0.3311	2652	1.000	1.000
JB67981-5 - 1	11 Jun 2014 14:35:56	SMPL	ug/l	0.3479	2771	1.000	1.000
JB67981-6 - 1	11 Jun 2014 14:37:16	SMPL	ug/l	-0.0119	219	1.000	1.000
JB67981-9 - 1	11 Jun 2014 14:38:37	SMPL	ug/l	0.9091	6752	1.000	1.000
JB67981-10 - 1	11 Jun 2014 14:39:56	SMPL	ug/l	0.2458	2047	1.000	1.000
JB67981-11 - 1	11 Jun 2014 14:41:20	SMPL	ug/l	0.8408	6267	1.000	1.000
CCV - 1	11 Jun 2014 14:42:40	CK STND	ug/l	105.1% 2.6264	18932	1.000	1.000
CCB - 1	11 Jun 2014 14:44:04	CK STND	ug/l	-0.0582	-109	1.000	1.000
JB67981-12 - 1	11 Jun 2014 14:45:33	SMPL	ug/l	1.0125	7485	1.000	1.000
JB67981-7A - 1	11 Jun 2014 14:46:53	SMPL	ug/l	1.2777	9366	1.000	1.000
JB67981-13A - 1	11 Jun 2014 14:48:18	SMPL	ug/l	0.2177	1848	1.000	1.000
JB67999-21A - 1	11 Jun 2014 15:13:53	SMPL	ug/l	10.1365	14683	1.000	5.000
CCV - 1	11 Jun 2014 15:15:10	CK STND	ug/l	(H)110.7% 2.7686	19941	1.000	1.000
CCB - 1	11 Jun 2014 15:16:39	CK STND	ug/l	-0.0394	24	1.000	1.000
CRI - 1	11 Jun 2014 16:13:05	SMPL	ug/l	0.1990	1715	1.000	1.000
JB68935-7A - 1	11 Jun 2014 16:36:47	SMPL	ug/l	0.2947	2394	1.000	1.000
JB68935-14A - 1	11 Jun 2014 16:38:04	SMPL	ug/l	0.1094	1080	1.000	1.000
JB68938-9A - 1	11 Jun 2014 16:39:25	SMPL	ug/l	0.2908	2366	1.000	1.000
JB68938-16A - 1	11 Jun 2014 16:40:45	SMPL	ug/l	-0.0394	24	1.000	1.000
JB68938-21A - 1	11 Jun 2014 16:42:06	SMPL	ug/l	0.0007	309	1.000	1.000
JB68899-1 - 1	11 Jun 2014 16:43:25	SMPL	ug/l	0.3198	2572	1.000	1.000
JB68899-2 - 1	11 Jun 2014 16:44:44	SMPL	ug/l	0.4117	3224	1.000	1.000
CCV - 1	11 Jun 2014 16:46:05	CK STND	ug/l	104.9% 2.6214	18897	1.000	1.000
CCB - 1	11 Jun 2014 16:47:24	CK STND	ug/l	-0.0530	-72	1.000	1.000

11.5 11

ACCUTEST



Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
STDA	0.000	-0.013	-0.013	215	0.000	215				
STDB	0.200	0.189	-0.011	1641	0.0 %	1641				
STDC	0.500	0.500	-0.000	3850	0.0 %	3850				
STDD	1.000	0.987	-0.013	7304	0.0 %	7304				
STDE	2.500	2.571	0.071	18536	0.0 %	18536				
STDF	5.000	4.966	-0.034	35530	0.0 %	35530				



Mercury Digestion Log

 Product: HG / EHG
 Matrix: Aq / Liq / DW

 MA Batcl: MA34168
 Analyst: (Signature)
 Date: 6/5/14
 Balance: N/A
 Reagents: See attached sheet
 Thermometer ID: 420

Methods (Circle as appropriate)

EPA 245.1

SW846 7470A

Type of Digestion:

 Hot Block
 ID: 2
 Hot Block
 ID:

 Start Time: 9:30 Temp: 95°C End time: 11:30 Temp: 95°C Tubes: 170 48
 Start Time: Temp: End time: Temp: Tubes:

Bot #	Sample ID	pH <2 Y/N	Initial Samp Vol ml	Final Samp Vol ml	Spiked Used		Spikelot and Conc (mg/L)	MP Number	Comments
					Amount Spiked	Added- Y or N			
1	ICV		30	30	3.0 ML	✓	0.03		0.030 ppm Hg std.(Ext)
2	ICB								
	CCV				2.5 ML	✓	0.03		0.030 ppm Hg std.
	CCB								
3	CRA				2.0 ML	✓	0.003		0.003 ppm Hg std.
4	mp 79894-mb1	✓						79894	
5	↓ L21	✓			2.0	✓	0.03		3PA
6	↓ S1	✓			↓	✓	↓		
7	↓ S2	✓			↓	✓	↓		
8	JB68374-3A								
9	↓ -8A								
10	↓ -9A								
11	JB68239-1								
12	↓ -2								
	CCV				2.5 ML	✓	0.03		0.03 ppm Hg std.
	CCB								
13	JB68239-3								
14	↓ -6								
15	mp 79895-mb1	✓						79895	
16	↓ L21	✓			2.0	✓	0.03		200
17	↓ S1	✓			↓	✓	↓		
18	↓ S2	✓			↓	✓	↓		
19	C34314-1								
20	mp 79896-mb1	✓						79896	
21	↓ L21	✓			2.0	✓	0.03		SW846
22	JB67819-1A								
	CCV				2.5 ML	✓	0.03		0.03 ppm Hg std.
	CCB								
23	JB67822-10								
24	JB67981-16								
25	↓ -21								
26	JB68265-22								
27	JB67898-4								
28	JB67897-7								
29	JB67912-4A								
30	JB67976-6								
31	JB67981-14								
32	JB64500-35								
	CCV				2.5 ML	✓	0.03		0.03 ppm Hg std.
	CCB								

 Form GN022A-02
 Revision Date: 03/25/13

 ANALYST: (Signature)
 QC REVIEWER:

 DATE: 6/5/14
 DATE:



Mercury Digestion Log

 Product HG / EHG
 Matrix: Aq / Lq / DW

 MA Batch: MA 34168
 Analyst: EW
 Date: 6/5/14
 Balance: N/A
 Reagents: See attached sheet
 Thermometer ID: 420

Methods (Circle as appropriate)

EPA 245.1

SW846 7470A

Type of Digestion:

 Hot Block
 ID 8
 Hot Block
 ID

 Start Time: 11:30 Temp: 95°C End time: 3:30 Temp: 95°C Tubes: 49 to 98
 Start Time Temp: End time: Temp: Tubes:

Bot #	Sample ID	pH <2 Y/N	Initial Sample Vol ml	Final Samp Vol ml	Spiked Used		Spikelot and Conc (mg/L)	MP Number	Comments
					Amount Spiked	Added- Y or N			
33	JB68123-15	Y	30	30		Y			
34	mp 79897-mp1	N						79897	SW846
35	↓ 51	Y			2.0	Y	0.03		
36	↓ 51	Y				Y			
37	↓ 52	Y				Y			
38	JB68356-16								JB68042-16
39	JB68042-16								
40	↓ -26								
41	↓ -36								
42	JB67881-1								
	CCV				2.5 ML	Y	0.03		0.03 ppm Hg std.
	CCB								
43	JB67881-3								
44	JB67912-12A								
45	↓ -14A								
46	↓ -15A								
47	JB68006-1								
48	JB68022-1								
49	JB67999-1A								
50	↓ -2A								
51	↓ -4A								
52	↓ -25A								
	CCV				2.5 ML	Y	0.03		0.03 ppm Hg std.
	CCB								
53	JB68108-1								
54	JB68128-1								
55	↓ -2								
56	JB68066-2		5.2A						
57	↓ -4		5.2A						
58	mp 79853-mp2	Y	30					79853	Brown & muddy trip
59	↓ 61	Y			2.0	Y	0.03		
60	JB68078-13	Y							
61	mp 79899-mp1	N						79899	
62	↓ 61				2.0	Y	0.03		
	CCV				2.5 ML		0.03		0.03 ppm Hg std.
	CCB								

 Form GN022A-02
 Revision Date: 03/25/13

 ANALYST: [Signature]
 QC REVIEWER:

 DATE: 6/5/14
 DATE:



Mercury Digestion Log

 Product HG / EHG
 Matrix Aq / Liq / DW

 MA Batch MA 34168
 Analyst: SPW
 Date: 6/8/14
 Balance N/A
 Reagents: See attached sheet
 Thermometer ID: 420

Methods (Circle as appropriate)

EPA 245.1

SW846 7470A

Type of Digestion:

 Hot Block
 ID 8
 Hot Block
 ID _____

 Start Time: 11:30 Temp: 25°C End time: 1:33 Temp: 25°C Tubes: 48 to 98
 Start Time _____ Temp: _____ End time: _____ Temp: _____ Tubes: _____

Bot #	Sample ID	pH <2 Y/N	Initial Sample Vol ml	Final Samp Vol ml	Spiked Used		Spikelot and Conc (mg/L)	MP Number	Comments
					Amount Spiked	Added- Y or N			
63	JB68216-41	Y	30	30	2.0	✓	0.03		
64	JB68216-52	Y			1	✓	0.03		
65	JB68216-1	Y							
66	mp 79900-1	Y						79900	
67	JB68216-1	Y			2.0	✓	0.03		
68	JB68216-51	Y			1	✓	0.03		
69	JB68216-52	Y			1	✓	0.03		
70	JB68216-1	Y							JB68216-1
71	JB68216-2	Y							
72	JB68216-3	Y							
	CCV				2.5 ML	✓	0.03		0.03 ppm Hg std.
	CCB								
73	JB68216-4	Y							
74	JB68216-5	Y							
75	JB68216-6	Y							
76	JB68216-7	Y							
77	JB68216-8	Y							
78	JB68216-9	Y							
79	JB68216-23	Y							
80	mp 79821-1	Y						79821	
81	JB68216-1	Y			2.0	✓	0.03		
82	JB68216-1A	Y							
	CCV				2.5 ML	✓	0.03		0.03 ppm Hg std.
	CCB								
83	mp 79871-1	Y						79871	
84	JB68216-1	Y			2.0	✓	0.03		
85	JB68216-1A	Y							
86	JB68216-1A	Y							
87	mp 79901-1	Y						79901	
88	JB68216-1	Y			2.0	✓	0.03		
89	JB68216-51	Y			1	✓	0.03		
90	JB68216-52	Y			1	✓	0.03		
91	JB68216-2A	Y							JB68216-2A
92	JB68216-1	Y							
	CCV				2.5 ML	✓	0.03		0.03 ppm Hg std.
	CCB								
93	JB68216-1A	Y							
94	JB68216-7A	Y							
95	JB68216-2A	Y						79879	
96	JB68216-3A	Y							
97	mp 79893-1	Y							
98	JB68216-1	Y			2.0	✓	0.03		
99									
100									
	CCV				2.5 ML		0.03		0.03 ppm Hg std.
	CCB								

Form GN022A-02

ANALYST: SPWDATE: 6/5/14



Mercury Digestion Log

Product: HG / EHG / HGCLP
Matrix: Aq / Liq

MA Batch #: MA 34168
Analyst: (FW)
Date: 6/5/14
Balance ID: N/A
Reagents: See attached sheet
Thermometer ID: 420

Methods (Circle as appropriate)

~~EPA 245.1~~

SW846 7470A

EPA 245.1 CLP-M

Type of Digestion:

Hot Block:

Start Time:

Temp:

End time: 11:30

Temp:

85.

Water Bath

Start Time:

Temp:

End time:

Temp:

[illegible]

Analyst:
QC Reviewer:

Date:
Date:

Form: GN-022A3
Rev. Date: 03/25/13



Reagent Information Log- Hg Waters

MA # 34168

Reagents	Exp. Date	Reagent # or manufacturer lot #
Conc. Sulfuric Acid	<u>5/16</u>	<u>Fisher 137588</u>
Conc. Nitric Acid	<u>5/16</u>	<u>Baker 50770</u>
Sodium Chloride-Hydroxylamine Hydrochloride	<u>11/10/14</u>	<u>HG-1390-557-HGHCL</u>
Potassium Permanganate 5%	<u>11/10/14</u>	<u>HG-1390-553-HGKM1</u>
Potassium Persulfate	<u>11/10/14</u>	<u>HG-1390-556-HGKS</u>
Stannous Chloride	<u>6/6/14</u>	<u>HG-1486-550-HGS</u>
STD Hg standard solution 1000 ppm	<u>1/31/2016</u>	<u>ULTRA JO1211</u>
STD Hg standard solution 30 ppb	<u>6/6/14</u>	<u>HG-1486-47-HGA3</u>
STD Hg standard solution 3 ppb	<u>6/6/14</u>	<u>HG-1486-48-HGA4</u>
ICV Hg standard solution 1000 ppm	<u>2/1/2015</u>	<u>IN ORG VENTURE F2-HG0215</u>
ICV Hg standard solution 30 ppb	<u>6/6/14</u>	<u>HG-1486-49-HGB3</u>
Dilution Acid	<u>11/10/14</u>	<u>HG-1390-390-HGD2(AQ)</u>
Digestion Tubes Lot	<u>N/A</u>	<u>HG-- --HGD2(AQ) / 312222</u>
pH Paper	<u>N/A</u>	<u>Hydriion Papers 1 to 12, Lot #</u>

Form: GN087A79-03
Rev. Date: 02/27/13



Mercury Digestion Log

 Product: HG / HGCLP / HGLIQ
 Matrix: Soil

 MA Batch #: MA34211
 Analyst: JW
 Date: 6/11/2014
 Balance ID: 24
 Reagents: See attached sheet
 Thermometer ID: 420

Methods (Circle as appropriate)

SW846 7471B

EPA 245.5 CLP-M

 Type of Digestion: Hot:Block#: 2 Hot Block: Start Time: 10:30 Temp: 95 End Time: 11:00 Temp: 95 Tubes 17051
 Hot:Block#: Hot Block: Start Time: Temp: End Time: T Temp: Tubes

Bot #	Sample ID	Initial Sample Wt. in g	Final Samp Vol ml	Spike Used		Spikelet and Conc (mg/L)	MP Number	Comments
				Amount Spiked	Added- Y or N			
1	ICV		100	3.0 ml	Y	0.1		
2	ICB							
	CCV			2.5 ml	Y	0.1		
	CCB							
3	CRI			2.0 ml	Y	0.01		
4	MP79976-MB1	0.6000					MP79976	
5	MP79976-LC1	0.1014						
6	MP79976-S1	0.6421		2.0ml	Y	0.1		JB67912-9A
7	MP79976-S2	0.6427		2.0ml	Y	0.1		JB67912-9A
8	JB67898-1	0.6578						
9	JB67898-2	0.6124						
10	JB67897-1	0.6949						
11	JB67897-3	0.6114						
12	JB67897-4	0.6670						
	CCV			2.5 ml	Y	0.1		
	CCB							
13	JB67897-5	0.6093						
14	JB67897-8	0.6315						
15	JB67897-2A	0.6281						
16	JB67897-6A	0.6760						
17	JB67912-2A	0.6165						
18	JB67912-3A	0.6088						
19	JB67912-6A	0.6110						
20	JB67912-9A	0.6395						
21	JB67912-20A	0.6640						
22	JB67912-22A	0.6013						
	CCV			2.5 ml	Y	0.1		
	CCB							
23	JB67912-24A	0.6541						
24	JB67912-28A	0.6034						
25	JB67912-29A	0.6283						
26	JB67912-31A	0.6811						
27	JB67587-11R	0.6304						
28	MP79977-MB1	0.6000					MP79977	
29	MP79977-LC1	0.1012						
30	MP79977-S1	0.6707		2.0ml	Y	0.1		JB68561-1
31	MP79977-S2	0.6191		2.0ml	Y	0.1		JB68561-1
32	JB68561-1	0.6680						
	CCV			2.5 ml	Y	0.1		
	CCB							

11.6.2 11

 Form: GN-022F
 Revision Date: 06/09/08

 ANALYST: [Signature]
 QC REVIEWER: _____

 DATE: 6/11/14
 DATE: _____



Mercury Digestion Log

 Product: HG / HGCLP / HGLIQ
 Matrix: Soil

 MA Batch #: MA34211
 Analyst: JW
 Date: 6/11/2014
 Balance ID: 24
 Reagents: See attached sheet
 Thermometer ID: 420

Methods (Circle as appropriate)

SW846 7471B

EPA 245.5 CLP-M

 Type of Digestion: Hot: Block# 7 Hot Block: Start Time: 10:30 Temp: 85°C End Time: 11:00 Temp: 85°C Tubes 1 to 51
 Hot: Block# 7 Hot Block: Start Time: 12:00 Temp: 1°C End Time: 12:30 Temp: 1°C Tubes 52 to 97

Bot #	Sample ID	Initial Sample Wt. in g	Final Samp Vol ml	Spike Used		Spike lot and Conc (mg/L)	MP Number	Comments
				Amount Spiked	Added- Y or N			
33	JB67929-1A	0.6449	1.00					
34	JB67929-2A	0.6619						
35	JB67929-3A	0.6253						
36	JB67929-4A	0.6095						
37	JB67929-5A	0.6096						
38	JB67929-6A	0.6757						
39	JB67268-2	0.6018						
40	JB67976-1	0.6254						
41	JB67976-2	0.6610						
42	JB67976-3	0.6733						
	CCV			2.5 ml	Y	0.1		
	CCB							
43	JB67976-4	0.6291						
44	JB67976-5	0.6156						
45	JB67976-8	0.6467						
46	JB67976-9	0.6273						
47	JB67976-10	0.6204						
48	JB67976-11	0.6172						
49	JB67976-12	0.6642						
50	JB68561-3	0.6514						
51	JB68561-5	0.6453						
52	MP79978-MB1	0.6000					MP79978	
	CCV			2.5 ml	Y	0.1		
	CCB							
53	MP79978-LC1	0.1008						
54	MP79978-S1	0.6130		2.0ml	Y	0.1		JB68603-1A
55	MP79978-S2	0.6214		2.0ml	Y	0.1		JB68603-1A
56	JB68603-1A	0.6412						
57	JB68602-1A	0.653						
58	JB68604-1A	0.6757						
59	JB68822-1A	0.6463						
60	JB68823-1A	0.6739						
61	JB68824-1A	0.6814						
62	JB68829-1	0.6092						
	CCV			2.5 ml	Y	0.1		
	CCB							
63	JB68829-2	0.6705						
64	JB68829-3	0.6233						
65	JB68829-4	0.6372						
66	JB68829-5	0.6699						

11.6.2 11

 Form: GN-022F
 Revision Date: 06/09/08

 ANALYST:
 QC REVIEWER: _____

 DATE: 6/11/14
 DATE: _____



Mercury Digestion Log

 Product: HG / HGCLP / HGLIQ
 Matrix: Soil

 MA Batch #: MA34211
 Analyst: JW
 Date: 6/11/2014
 Balance ID: 24
 Reagents: See attached sheet
 Thermometer ID: 420

Methods (Circle as appropriate)

SW846 7471B

EPA 245.5 CLP-M

 Type of Digestion: Hot:Block#: 7 Hot Block: Start Time: 12:30 Temp: 150 End Time: 12:30 Temp: 150 Tubes 52 to 97
 Hot:Block#: Hot:Block: Start Time: End Time: T Temp: Tubes

Bot #	Sample ID	Initial Sample Wt. in g	Final Samp Vol ml	Spike Used		Spikelet and Conc (mg/L)	MP Number	Comments
				Amount Spiked	Added- Y or N			
67	JB67999-7A	0.6230	<u>1.00</u>					
68	JB67999-11A	0.6092						
69	JB67999-13A	0.6443						
70	JB67999-18A	0.6618						
71	JB67999-21A	0.6547						
72	JB67999-22A	0.6221						
	CCV			2.5 ml	Y	0.1		
	CCB							
73	JB67941-1	0.6472						
74	MP79990-MB1	0.6000					MP79990	
75	MP79990-LC1	0.1007						
76	MP79990-S1	0.6243		2.0ml	Y	0.1		JB67981-8
77	MP79990-S2	0.6558		2.0ml	Y	0.1		JB67981-8
78	JB67981-8	0.6479						
79	JB67981-1	0.6020						
80	JB67981-2	0.6202						
81	JB67981-3	0.6379						
82	JB67981-4	0.6206						
	CCV			2.5 ml		0.1		
	CCB							
83	JB67981-5	0.6716						
84	JB67981-6	0.6420						
85	JB67981-9	0.6300						
86	JB67981-10	0.6099						
87	JB67981-11	0.6301						
88	JB67981-12	0.6744						
89	JB67981-7A	0.6437						
90	JB67981-13A	0.6387						
91	JB68935-7A	0.6720						
92	JB68935-14A	0.6336						
	CCV			2.5 ml		0.1		
	CCB							
93	JB68938-9A	0.6961						
94	JB68938-16A	0.6462						
95	JB68938-21A	0.6532						
96	JB68899-1	0.6436						
97	JB68899-2	0.6354						
98								
99								
100								
101								
102								
	CCV			2.5 ml		0.1		
	CCB							

11.6.2 11

 Form: GN-022F
 Revision Date: 06/09/08

 ANALYST: [Signature]
 QC REVIEWER: _____

 DATE: 6/11/14
 DATE: _____



MA Batch #:	MA34211
Analyst:	JW
Date:	6/11/2014
Balance ID:	24
Reagents:	See attached sheet
Thermometer ID:	420

Methods (Circle as appropriate)

SW846 7471B

EPA 245.5 CLP-M

Type of Digestion: Hot Block# 2 Hot:Block: Start Time: 10:20 Temp: 100 End Time: 10:30 T Temp: 25 Tubes 1 to 51
Hot Block# 2 Hot:Block: Start Time: _____ Temp: _____ End Time: _____ T Temp: _____ Tubes _____

11.6.2 11

Analyst:
QC Reviewer:

Date:
Date:

Form: GN-022E
Rev. Date: 06/09/08



Reagent Information Log- Hg Soil

 MA # 34211

Reagents	Exp. Date	Reagent # or manufacturer lot #
<u>HCL</u> Conc. Sulfuric Acid	<u>5/16</u>	<u>Baker 60441</u>
<u>Conc. Nitric Acid</u>	<u>5/16</u>	<u>Baker 50770</u>
<u>Sodium Chloride-Hydroxylamine Hydrochloride</u>	<u>11/10/14</u>	<u>HG-1390-557 -HGHC</u>
<u>Potassium Permanganate</u>	<u>11/10/14</u>	<u>HG-1390-555 -HGKM2</u>
<u>Stannous Chloride</u>	<u>6/12/14</u>	<u>HG-1490-68 -HGS</u>
<u>STD Hg standard solution 1000 ppm</u>	<u>1/31/2016</u>	<u>ULTRA 701211</u>
<u>STD Hg standard solution 100 ppb</u>	<u>6/12/14</u>	<u>HG-1490-66 -HGA1</u>
<u>STD Hg standard solution 10 ppb</u>	<u>6/12/14</u>	<u>HG-1490-67 -HGA2</u>
<u>ICV Hg standard solution 1000 ppm</u>	<u>2/1/2015</u>	<u>INORGVENTURE F2-HG0215</u>
<u>ICV Hg standard solution 50 ppb</u>	<u>6/12/14</u>	<u>HG-1490-68 -HGB1</u>
<u>Solid Lab control</u>	<u>1/16</u>	<u>GRA 2082-540</u>
<u>Aqua Regia</u>	<u>6/12/14</u>	<u>HG-1490-70 -HGKAQ</u>
<u>Dilution acid</u>	<u>10/10/14</u>	<u>HG-1390-558 -HGD1</u>
<u>Digestion Tubes Lot</u>	<u>N/A</u>	<u>EXPRESS 1312222</u>
<u>Teflon Chips</u>	<u>N/A</u>	<u>F710-2 G022</u>

Form: GN087A80-03

Rev. Date: 10/15/12



Solids/Soil Metals Digestion Form

Batch Information							
Batch ID	Start Date	Start Time	End Date	End time	QC Samp 1	QC Samp 2	
MP79752	5/29/2014	17:00	5/29/2014	23:00	JB67702-1A		

Temperature							
		Block ID	Therm. ID#	Balance ID	Temperature	Correction	Corrected Temp
1	Start	8	405	B-41	90	0	90
1	End	8	405	NA	90	0	90
2	Start						
2	End			NA			

Methods and Equipment					
	Dig. Method	Heating Method		Auto Pipette #	Digestion Tube Lot #
	SW846 3050B	Digestion Block		M-54	1312222

Sample ID	Bottle ID	Final Volume (ML)	Wet Weight (G)	Reagent Groups Added	Spike Groups Added	Comments
MP79752-MB1	N/A	100	1.01	A, B, C, D		
MP79752-B1	N/A	100	1.02	A, B, C, D	A & B	
MP79752-S1	1	100	1.00	A, B, C, D	A & B	
MP79752-S2	1	100	0.98	A, B, C, D	A & B	
MP79752-SD1	1	100	0.96	A, B, C, D		
JB67702-1A	1	100	0.96	A, B, C, D		
JB67744-1	1	100	1.66	A, B, C, D		
JB67744-10	1	100	1.65	A, B, C, D		
JB67744-12	1	100	1.25	A, B, C, D		
JB67744-13	1	100	3.68	A, B, C, D		
JB67744-14	1	100	1.78	A, B, C, D		
JB67744-15	1	100	1.78	A, B, C, D		
JB67744-2	1	100	1.69	A, B, C, D		
JB67744-3	1	100	1.68	A, B, C, D		
JB67744-4	1	100	1.36	A, B, C, D		
JB67744-5	1	100	1.49	A, B, C, D		
JB67744-8	1	100	1.70	A, B, C, D		
JB67744-9	1	100	2.46	A, B, C, D		
JB67854-1	1	100	1.00	A, B, C, D		
JB67854-2	1	100	0.98	A, B, C, D		
JB67854-3	1	100	0.98	A, B, C, D		
JB67871-1	1	100	0.97	A, B, C, D		
JB67898-1	1	100	0.97	A, B, C, D		
JB67898-2	1	100	0.96	A, B, C, D		
MP79752-LC1	N/A	100	0.54	A, B, C, D		

Reagents Groups		
Group	Description	MLs Used
A	1:1 HNO3	10
B	CONC HNO3	5
C	30% H2O2	5
D	CONC HCL	10
E		
F		
G		
H		

Spike Groups		
Group	Description	MLs Used
A	SP	2
B	MIN 2	2
C		
D		
E		
F		
G		
H		

Comments: _____

Analyst JULIANAF Approved by Wendyz Approved on 5/30/2014

Note: Reagent traceability for batch Start Date can be seen on the reagent traceability page for this batch.
 Serial Dilution samples shown for QC purposes only.
 Acceptable Temperature range is 90-95 degrees C unless otherwise noted



Soil Digestion Reagents Information Log

Digestion Reagents Information Log

Digestion Batch ID: MP 79752
 Matrix: SOIL

<u>Standard/Reagent Type</u>	<u>Exp. Date</u>	<u>Standard/Reagent ID</u>
<u>Spiking Solution - Reg. Spike</u>	<u>11/7/14</u>	<u>MP - 013 - 652 -SP</u>
<u>Spiking Solution - Min. Spike</u>	<u>11/13/14</u>	<u>MP - 013 - 650 -MIN2</u>
<u>Spiking Solution - Odd Spike</u>	<u>10/29/14</u>	<u>MP - 013 - 647 -ODD</u>
<u>Spiking Solution - Other</u>	<u> </u>	<u> </u>
<u>Spiking Solution - Other</u>	<u> </u>	<u> </u>
<u>Nitric Acid</u>	<u>5/2016</u>	<u>#0000050770 JT Baker</u>
<u>Nitric Acid (1:1)</u>	<u>11/28/14</u>	<u>MP - 013 - 20 - 188 -HNO3 (1:1)</u>
<u>Hydrochloric Acid</u>	<u>5/2016</u>	<u>#0000060411 JT Baker</u>
<u>Hydrogen Peroxide</u>	<u>5/2016</u>	<u>Lot #: 142358 Mfg. Fisher Scientific</u>
<u>Lab Control</u>	<u> </u>	<u>Lot #: Mfg. </u>
<u>Spike Blank</u>	<u> </u>	<u> </u>
<u>Filter Lot (sample filtration)</u>	<u>N/A</u>	<u>Lot #: FC009746 Mfg. Fisher Scientific Environmental</u>
<u>Digestion Tubes Lot</u>	<u>N/A</u>	<u>Lot #: 1312222 Mfg. Express</u>
<u>Teflon Chips</u>	<u>N/A</u>	<u>Item # 0919120 Chemware Saint-Gobain</u>

Form: AA014A-02

Rev. Date: 10/15/12



Accutest Aqueous Metals Digestion Form

Batch Information						
Batch ID	Start Date	Start Time	End Date	End time	QC Samp 1	QC Samp 2
MP79781	5/30/2014	17:45	5/30/2014	23:00		

Temperature						
		Block ID#1	Therm. ID#	Temperature	Correction	Corrected Temp
1	Start	7	174	92	0	92
1	End	7	174	90	0	90
2	Start					
2	End					

Methods and Equipment					
	Dig. Method	Heating Method		Auto Pipette #	Digestion Tube Lot #
	SW846 3010A	Digestion Block		M-54	1312222

Sample ID	Bottle Number	Pres (Y/N)	Initial Sample Volume	Final Volume in ML	Reagent Groups Added	Spike Groups Added	Comments
MP79781-MB1	N/A	N	50	50	A & B		
JB64500-35	3	Y	50	50	A & B		
JB67897-7	7	Y	50	50	A & B		
JB67898-4	3	Y	50	50	A & B		
JB67912-11A	9	Y	50	50	A & B		
JB67976-6	3	Y	50	50	A & B		
JB67981-14	7	Y	50	50	A & B		
JB67999-2A	9	Y	50	50	A & B		
MP79781-LC1	N/A	Y	50	50	A & B		
JB68098-2	3	Y	50	50	A & B		
JB68102-1a	3	Y	50	50	A & B		

Reagents Groups		
Group	Description	MLs Used
A	CONC HNO3	3
B	1:1 HCL	5
C		
D		
E		
F		
G		
H		

Spike Groups		
Group	Description	MLs Used
A	SP	0.5
B	MIN 1	0.5
C		
D		
E		
F		
G		
H		

Comments: _____

Analyst JULIANAF Approved by Wendyz Approved on 6/2/2014

Note: Reagent traceability for batch Start Date can be seen on the reagent traceability page for this batch.
 Serial Dilution samples shown for QC purposes only.
 Acceptable Temperature range is 90-95 degrees C unless otherwise noted



Aqueous Digestion Reagent Information Log

Digestion Reagents Information Log

 Digestion Batch ID: MP 79781
 Matrix: AQ

Standard/Reagent Type	Exp. Date	Standard/Reagent ID
Spiking Solution - Reg. Spike	11/07/14	MP-013- 651 -SP
Spiking Solution - Min. Spike	11/05/14	MP-013- 649 -MIN1
Spiking Solution - Odd Spike	10/29/14 10/11/14	MP-013- 641 647 -ODD
Spiking Solution - Other		
Spiking Solution - Other		
Nitric Acid	05/20/16	E-0000050770 J.T. Baker
Nitric Acid (1:1)	11/28/14	MP-013-20- 188 -HNO ₃ (1:1)
Hydrochloric Acid	11/28/14	MP-013-20- 189 -HCl (1:1)
Hydrogen Peroxide		Lot #: Mfg.
Lab Control	11/22/14	MP-013- 113 -LCW
Spike Blank		
Filter Lot (sample filtration)	N/A	Lot #: FCC09746 Mfg. Fisher Scientific
Digestion Tubes Lot	N/A	Lot #: Mfg. Environmental Express
pH Paper	N/A	Hydriion Paper 1 to 12, lot # 228713

Form: AA014B-01

Rev. Date: 5/12/08

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Percent Solids Raw Data Summary

Percent Solids Raw Data Summary

Job Number: JB67898
Account: LANGAN Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Sample: JB67898-1		Analyzed: 29-MAY-14 by AC		Method: SM2540 G-97	
ClientID: 287-DEC-3					
Wet Weight (Total)	32.97	g			
Tare Weight	27.03	g			
Dry Weight (Total)	31.92	g			
Solids, Percent	82.3	%			
Sample: JB67898-2		Analyzed: 29-MAY-14 by AC		Method: SM2540 G-97	
ClientID: 288-PE-60					
Wet Weight (Total)	31.02	g			
Tare Weight	23.77	g			
Dry Weight (Total)	26.06	g			
Solids, Percent	31.6	%			