



07/14/14

Technical Report for

Langan Engineering & Environmental

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

100287501

Accutest Job Number: JB70517

Sampling Date: 06/26/14

Report to:

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Total number of pages in report: **1555**



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.

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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: JB70517

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

Project No: 100287501

Sample Number	Collected		Matrix	Received	Code	Type	Client Sample ID
	Date	Time By					
JB70517-1	06/26/14	10:30 CBM	06/27/14	SO	Soil		414-PE-30
JB70517-1D	06/26/14	10:30 CBM	06/27/14	SO	Soil Dup/MSD		414-PE-30
JB70517-1S	06/26/14	10:30 CBM	06/27/14	SO	Soil Matrix Spike		414-PE-30
JB70517-2	06/26/14	10:55 CBM	06/27/14	SO	Soil		415-PE-13
JB70517-3	06/26/14	15:45 CBM	06/27/14	AQ	Field Blank Soil		416-FB-20
JB70517-4	06/26/14	09:45 CBM	06/27/14	AQ	Field Blank Soil		417-FB-21
JB70517-5	06/26/14	15:45 CBM	06/27/14	AQ	Trip Blank Soil		418-TB-18

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

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: Langan Engineering & Environmental

Job No JB70517

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

Report Date 7/14/2014 4:05:59 PM

On 06/27/2014, 2 Sample(s), 1 Trip Blank(s) and 2 Field Blank(s) were received at Accutest Laboratories at a temperature of 4 C. Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JB70517 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: V4D2227

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB70356-1MS, JB70356-1MSD were used as the QC samples indicated.
- Blank Spike Recovery(s) for 1,2-Dichloroethane are outside control limits. High percent recoveries and no associated positive found in the QC batch.

Matrix: SO

Batch ID: VY6385

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB70517-1MS, JB70517-1MSD were used as the QC samples indicated.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ

Batch ID: OP76142

- All samples were extracted within the recommended method holding time.
- Sample(s) JB70546-2MS, JB70546-2MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Matrix Spike Recovery(s) for 3,3'-Dichlorobenzidine, 4-Nitrophenol, Acenaphthene, bis(2-Chloroisopropyl)ether, Dibenzofuran, Fluorene, Naphthalene, Pentachlorophenol, Phenanthrene are outside control limits. Outside control limits due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for 3,3'-Dichlorobenzidine, Acenaphthene, Benzaldehyde, bis(2-Chloroisopropyl)ether, Phenanthrene are outside control limits. Outside control limits due to matrix interference.

Matrix: SO

Batch ID: OP76077

- All samples were extracted within the recommended method holding time.
- Sample(s) JB70517-1MS, JB70517-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Blank Spike Recovery(s) for 2-Nitrophenol are outside control limits. Outside of in house control limits, but within reasonable method recovery limits.
- Matrix Spike Recovery(s) for 2,3,4,6-Tetrachlorophenol, 2,4,6-Trichlorophenol, 2-Chlorophenol, 2-Methylphenol, 2-Nitrophenol, 4-Chloro-3-methyl phenol, bis(2-Chloroethoxy)methane, bis(2-Chloroethyl)ether, Isophorone, Naphthalene, Phenol are outside control limits. Outside of in house control limits.
- Matrix Spike Duplicate Recovery(s) for 3&4-Methylphenol, 2,4,6-Trichlorophenol, 2-Chlorophenol, 2-Methylphenol, 2-Nitrophenol, 4-Chloro-3-methyl phenol, bis(2-Chloroethoxy)methane, bis(2-Chloroethyl)ether, Naphthalene, Phenol are outside control limits. Outside of in house control limits.
- Matrix Spike/Matrix Spike Duplicate Recovery(s) for 2,4-Dichlorophenol, 2,4-Dimethylphenol are outside control limits. Outside control limits due to matrix interference.

Metals By Method SW846 6010C

Matrix: AQ

Batch ID: MP80388

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

Matrix: SO

Batch ID: MP80392

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB70517-1MS, JB70517-1MSD, JB70517-1SDL were used as the QC samples for metals.
- Matrix Spike Recovery(s) for Aluminum, Antimony, Calcium, Iron, Magnesium, Manganese are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
- Matrix Spike Duplicate Recovery(s) for Antimony, Calcium, Magnesium, Manganese are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
- RPD(s) for MS/MSD for Iron are outside control limits. High rpd due to possible sample nonhomogeneity.
- RPD(s) for Serial Dilution for Cadmium, Selenium are outside control limits. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Metals By Method SW846 7470A

Matrix: AQ

Batch ID: MP80495

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB70198-2MS, JB70198-2MSD, JB70198-2PS were used as the QC samples for metals.

Metals By Method SW846 7471B**Matrix:** SO**Batch ID:** MP80436

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB70517-1MS, JB70517-1MSD were used as the QC samples for metals.

Wet Chemistry By Method SM2540 G-97**Matrix:** SO**Batch ID:** GN7535

- 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: JB70517

Account: Langan Engineering & Environmental

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

Collected: 06/26/14



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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JB70517-1 414-PE-30

Acetone	0.0336	0.014	0.0066	mg/kg	SW846 8260C
Carbon disulfide	0.0012 J	0.0072	0.00020	mg/kg	SW846 8260C
Aluminum	28100	160	4.2	mg/kg	SW846 6010C
Arsenic	27.1	6.4	0.92	mg/kg	SW846 6010C
Barium	76.1	64	0.25	mg/kg	SW846 6010C
Beryllium	1.8	0.64	0.064	mg/kg	SW846 6010C
Cadmium	0.45 B	1.6	0.16	mg/kg	SW846 6010C
Calcium	5500	1600	9.6	mg/kg	SW846 6010C
Chromium	54.9	3.2	0.22	mg/kg	SW846 6010C
Cobalt	22.5	16	0.19	mg/kg	SW846 6010C
Copper	35.5	8.0	0.48	mg/kg	SW846 6010C
Iron	59100	160	3.1	mg/kg	SW846 6010C
Lead	73.6	6.4	0.67	mg/kg	SW846 6010C
Magnesium	12900	1600	11	mg/kg	SW846 6010C
Manganese	620	4.8	0.19	mg/kg	SW846 6010C
Mercury	0.055	0.050	0.011	mg/kg	SW846 7471B
Nickel	64.4	13	0.32	mg/kg	SW846 6010C
Potassium	5510	3200	13	mg/kg	SW846 6010C
Selenium	1.3 B	6.4	1.1	mg/kg	SW846 6010C
Sodium	1780 B	3200	6.0	mg/kg	SW846 6010C
Vanadium	60.6	16	0.29	mg/kg	SW846 6010C
Zinc	137	6.4	1.2	mg/kg	SW846 6010C

JB70517-2 415-PE-13

Acetone	0.0572	0.017	0.0076	mg/kg	SW846 8260C
2-Butanone (MEK)	0.0111 J	0.017	0.0074	mg/kg	SW846 8260C
Carbon disulfide	0.0017 J	0.0084	0.00024	mg/kg	SW846 8260C
Cyclohexane	0.0012 J	0.0084	0.00043	mg/kg	SW846 8260C
Methylcyclohexane	0.0065 J	0.0084	0.00027	mg/kg	SW846 8260C
Pyrene	0.0239 J	0.053	0.020	mg/kg	SW846 8270D
Aluminum	16300	160	4.2	mg/kg	SW846 6010C
Arsenic	15.4	6.4	0.93	mg/kg	SW846 6010C
Barium	80.0	64	0.26	mg/kg	SW846 6010C
Beryllium	1.2	0.64	0.064	mg/kg	SW846 6010C
Cadmium	0.26 B	1.6	0.16	mg/kg	SW846 6010C
Calcium	5770	1600	9.7	mg/kg	SW846 6010C
Chromium	33.7	3.2	0.23	mg/kg	SW846 6010C
Cobalt	10.5 B	16	0.19	mg/kg	SW846 6010C
Copper	29.9	8.0	0.48	mg/kg	SW846 6010C
Iron	37000	160	3.1	mg/kg	SW846 6010C
Lead	147	6.4	0.68	mg/kg	SW846 6010C
Magnesium	6750	1600	11	mg/kg	SW846 6010C

Summary of Hits

Job Number: JB70517

Account: Langan Engineering & Environmental

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

Collected: 06/26/14

Lab Sample ID	Client Sample ID	Result/ Analyte Qual	RL	MDL	Units	Method
		Manganese	347	4.8	0.19	mg/kg SW846 6010C
		Mercury	0.13	0.053	0.012	mg/kg SW846 7471B
		Nickel	36.5	13	0.32	mg/kg SW846 6010C
		Potassium	3150 B	3200	13	mg/kg SW846 6010C
		Sodium	1050 B	3200	6.0	mg/kg SW846 6010C
		Thallium	1.4 B	3.2	1.3	mg/kg SW846 6010C
		Vanadium	46.0	16	0.29	mg/kg SW846 6010C
		Zinc	89.1	6.4	1.2	mg/kg SW846 6010C
JB70517-3 416-FB-20						
		Acetone	4.2 J	10	3.3	ug/l SW846 8260C
		Calcium	120 B	5000	19	ug/l SW846 6010C
		Sodium	430 B	10000	19	ug/l SW846 6010C
JB70517-4 417-FB-21						
		Acetone	4.1 J	10	3.3	ug/l SW846 8260C
		Calcium	113 B	5000	19	ug/l SW846 6010C
		Sodium	417 B	10000	19	ug/l SW846 6010C

JB70517-5 418-TB-18

No hits reported in this sample.

Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

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Client Sample ID:	414-PE-30	Date Sampled:	06/26/14
Lab Sample ID:	JB70517-1	Date Received:	06/27/14
Matrix:	SO - Soil	Percent Solids:	62.8
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	Y146913.D	1	07/01/14	PS	n/a	n/a	VY6385
Run #2							

Run #	Initial Weight
Run #1	5.5 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	0.0336	0.014	0.0066	mg/kg	
71-43-2	Benzene	ND	0.0014	0.00018	mg/kg	
74-97-5	Bromochloromethane	ND	0.0072	0.00075	mg/kg	
75-27-4	Bromodichloromethane	ND	0.0072	0.00041	mg/kg	
75-25-2	Bromoform	ND	0.0072	0.00038	mg/kg	
74-83-9	Bromomethane	ND	0.0072	0.00070	mg/kg	
78-93-3	2-Butanone (MEK)	ND	0.014	0.0064	mg/kg	
75-15-0	Carbon disulfide	0.0012	0.0072	0.00020	mg/kg	J
56-23-5	Carbon tetrachloride	ND	0.0072	0.00036	mg/kg	
108-90-7	Chlorobenzene	ND	0.0072	0.00029	mg/kg	
75-00-3	Chloroethane	ND	0.0072	0.0014	mg/kg	
67-66-3	Chloroform	ND	0.0072	0.00037	mg/kg	
74-87-3	Chloromethane	ND	0.0072	0.00050	mg/kg	
110-82-7	Cyclohexane	ND	0.0072	0.00037	mg/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.014	0.0019	mg/kg	
124-48-1	Dibromochloromethane	ND	0.0072	0.00035	mg/kg	
106-93-4	1,2-Dibromoethane	ND	0.0014	0.00079	mg/kg	
95-50-1	1,2-Dichlorobenzene	ND	0.0072	0.00049	mg/kg	
541-73-1	1,3-Dichlorobenzene	ND	0.0072	0.00032	mg/kg	
106-46-7	1,4-Dichlorobenzene	ND	0.0072	0.00036	mg/kg	
75-71-8	Dichlorodifluoromethane	ND	0.0072	0.00051	mg/kg	
75-34-3	1,1-Dichloroethane	ND	0.0072	0.00045	mg/kg	
107-06-2	1,2-Dichloroethane	ND	0.0014	0.00046	mg/kg	
75-35-4	1,1-Dichloroethene	ND	0.0072	0.00042	mg/kg	
156-59-2	cis-1,2-Dichloroethene	ND	0.0072	0.00030	mg/kg	
156-60-5	trans-1,2-Dichloroethene	ND	0.0072	0.00061	mg/kg	
78-87-5	1,2-Dichloropropane	ND	0.0072	0.00063	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0072	0.00033	mg/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0072	0.00039	mg/kg	
100-41-4	Ethylbenzene	ND	0.0014	0.00025	mg/kg	
76-13-1	Freon 113	ND	0.0072	0.00063	mg/kg	
591-78-6	2-Hexanone	ND	0.0072	0.0026	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

Client Sample ID: 414-PE-30	
Lab Sample ID: JB70517-1	Date Sampled: 06/26/14
Matrix: SO - Soil	Date Received: 06/27/14
Method: SW846 8260C	Percent Solids: 62.8
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	0.0072	0.00021	mg/kg	
79-20-9	Methyl Acetate	ND	0.0072	0.0024	mg/kg	
108-87-2	Methylcyclohexane	ND	0.0072	0.00024	mg/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.0014	0.00050	mg/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	0.0072	0.0019	mg/kg	
75-09-2	Methylene chloride	ND	0.0072	0.0025	mg/kg	
100-42-5	Styrene	ND	0.0072	0.00034	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0072	0.00050	mg/kg	
127-18-4	Tetrachloroethene	ND	0.0072	0.00059	mg/kg	
108-88-3	Toluene	ND	0.0014	0.00021	mg/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	0.0072	0.00030	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	0.0072	0.00026	mg/kg	
71-55-6	1,1,1-Trichloroethane	ND	0.0072	0.00042	mg/kg	
79-00-5	1,1,2-Trichloroethane	ND	0.0072	0.0012	mg/kg	
79-01-6	Trichloroethene	ND	0.0072	0.00051	mg/kg	
75-69-4	Trichlorofluoromethane	ND	0.0072	0.00033	mg/kg	
75-01-4	Vinyl chloride	ND	0.0072	0.00050	mg/kg	
	m,p-Xylene	ND	0.0014	0.00070	mg/kg	
95-47-6	o-Xylene	ND	0.0014	0.00026	mg/kg	
1330-20-7	Xylene (total)	ND	0.0014	0.00026	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		59-130%
17060-07-0	1,2-Dichloroethane-D4	95%		65-123%
2037-26-5	Toluene-D8	106%		77-125%
460-00-4	4-Bromofluorobenzene	99%		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

Accutest Laboratories

Report of Analysis

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Client Sample ID:	414-PE-30	
Lab Sample ID:	JB70517-1	Date Sampled: 06/26/14
Matrix:	SO - Soil	Date Received: 06/27/14
Method:	SW846 8270D SW846 3550C	Percent Solids: 62.8
Project:	Carroll Gardens, 363-365 Bond Street, Brooklyn, NY	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2P38174.D	1	07/05/14	ALS	07/01/14	OP76077	E2P1594
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	0.10	0.051	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	0.26	0.051	mg/kg	
120-83-2	2,4-Dichlorophenol	ND	0.26	0.082	mg/kg	
105-67-9	2,4-Dimethylphenol	ND	0.26	0.086	mg/kg	
51-28-5	2,4-Dinitrophenol	ND	1.0	0.062	mg/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	1.0	0.062	mg/kg	
95-48-7	2-Methylphenol	ND	0.10	0.058	mg/kg	
	3&4-Methylphenol	ND	0.10	0.065	mg/kg	
88-75-5	2-Nitrophenol	ND	0.26	0.054	mg/kg	
100-02-7	4-Nitrophenol	ND	0.51	0.086	mg/kg	
87-86-5	Pentachlorophenol	ND	0.51	0.087	mg/kg	
108-95-2	Phenol	ND	0.10	0.054	mg/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	0.26	0.053	mg/kg	
95-95-4	2,4,5-Trichlorophenol	ND	0.26	0.059	mg/kg	
88-06-2	2,4,6-Trichlorophenol	ND	0.26	0.048	mg/kg	
83-32-9	Acenaphthene	ND	0.051	0.015	mg/kg	
208-96-8	Acenaphthylene	ND	0.051	0.016	mg/kg	
98-86-2	Acetophenone	ND	0.26	0.0090	mg/kg	
120-12-7	Anthracene	ND	0.051	0.018	mg/kg	
1912-24-9	Atrazine	ND	0.10	0.010	mg/kg	
56-55-3	Benzo(a)anthracene	ND	0.051	0.017	mg/kg	
50-32-8	Benzo(a)pyrene	ND	0.051	0.016	mg/kg	
205-99-2	Benzo(b)fluoranthene	ND	0.051	0.017	mg/kg	
191-24-2	Benzo(g,h,i)perylene	ND	0.051	0.019	mg/kg	
207-08-9	Benzo(k)fluoranthene	ND	0.051	0.019	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	0.10	0.019	mg/kg	
85-68-7	Butyl benzyl phthalate	ND	0.10	0.030	mg/kg	
92-52-4	1,1'-Biphenyl	ND	0.10	0.0059	mg/kg	
100-52-7	Benzaldehyde	ND	0.26	0.012	mg/kg	
91-58-7	2-Chloronaphthalene	ND	0.10	0.016	mg/kg	
106-47-8	4-Chloroaniline	ND	0.26	0.016	mg/kg	
86-74-8	Carbazole	ND	0.10	0.024	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

Client Sample ID:	414-PE-30	Date Sampled:	06/26/14
Lab Sample ID:	JB70517-1	Date Received:	06/27/14
Matrix:	SO - Soil	Percent Solids:	62.8
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	0.10	0.016	mg/kg	
218-01-9	Chrysene	ND	0.051	0.017	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	0.10	0.021	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	0.10	0.015	mg/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	0.10	0.015	mg/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.10	0.015	mg/kg	
121-14-2	2,4-Dinitrotoluene	ND	0.051	0.022	mg/kg	
606-20-2	2,6-Dinitrotoluene	ND	0.051	0.019	mg/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	0.10	0.013	mg/kg	
123-91-1	1,4-Dioxane	ND	0.051	0.033	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	0.051	0.017	mg/kg	
132-64-9	Dibenzofuran	ND	0.10	0.015	mg/kg	
84-74-2	Di-n-butyl phthalate	ND	0.10	0.011	mg/kg	
117-84-0	Di-n-octyl phthalate	ND	0.10	0.025	mg/kg	
84-66-2	Diethyl phthalate	ND	0.10	0.017	mg/kg	
131-11-3	Dimethyl phthalate	ND	0.10	0.018	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.10	0.045	mg/kg	
206-44-0	Fluoranthene	ND	0.051	0.023	mg/kg	
86-73-7	Fluorene	ND	0.051	0.017	mg/kg	
118-74-1	Hexachlorobenzene	ND	0.10	0.017	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.051	0.014	mg/kg	
77-47-4	Hexachlorocyclopentadiene	ND	0.51	0.052	mg/kg	
67-72-1	Hexachloroethane	ND	0.26	0.014	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.051	0.018	mg/kg	
78-59-1	Isophorone	ND	0.10	0.014	mg/kg	
91-57-6	2-Methylnaphthalene	ND	0.10	0.028	mg/kg	
88-74-4	2-Nitroaniline	ND	0.26	0.022	mg/kg	
99-09-2	3-Nitroaniline	ND	0.26	0.020	mg/kg	
100-01-6	4-Nitroaniline	ND	0.26	0.020	mg/kg	
91-20-3	Naphthalene	ND	0.051	0.014	mg/kg	
98-95-3	Nitrobenzene	ND	0.10	0.015	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	0.10	0.012	mg/kg	
86-30-6	N-Nitrosodiphenylamine	ND	0.26	0.030	mg/kg	
85-01-8	Phenanthrene	ND	0.051	0.023	mg/kg	
129-00-0	Pyrene	ND	0.051	0.020	mg/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	0.26	0.016	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	81%		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

Client Sample ID:	414-PE-30	Date Sampled:	06/26/14
Lab Sample ID:	JB70517-1	Date Received:	06/27/14
Matrix:	SO - Soil	Percent Solids:	62.8
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	90%		15-110%
118-79-6	2,4,6-Tribromophenol	105%		20-123%
4165-60-0	Nitrobenzene-d5	88%		10-110%
321-60-8	2-Fluorobiphenyl	99%		17-110%
1718-51-0	Terphenyl-d14	95%		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

Client Sample ID: 414-PE-30

Lab Sample ID: JB70517-1

Matrix: SO - Soil

Date Sampled: 06/26/14

Date Received: 06/27/14

Percent Solids: 62.8

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

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method	
Aluminum	28100	160	4.2	mg/kg	1	06/30/14	07/02/14	ND	SW846 6010C ¹	SW846 3050B ⁴
Antimony	0.86 U	6.4	0.86	mg/kg	1	06/30/14	07/02/14	ND	SW846 6010C ¹	SW846 3050B ⁴
Arsenic	27.1	6.4	0.92	mg/kg	1	06/30/14	07/02/14	ND	SW846 6010C ¹	SW846 3050B ⁴
Barium	76.1	64	0.25	mg/kg	1	06/30/14	07/02/14	ND	SW846 6010C ¹	SW846 3050B ⁴
Beryllium	1.8	0.64	0.064	mg/kg	1	06/30/14	07/02/14	ND	SW846 6010C ¹	SW846 3050B ⁴
Cadmium	0.45 B	1.6	0.16	mg/kg	1	06/30/14	07/02/14	ND	SW846 6010C ¹	SW846 3050B ⁴
Calcium	5500	1600	9.6	mg/kg	1	06/30/14	07/02/14	ND	SW846 6010C ¹	SW846 3050B ⁴
Chromium	54.9	3.2	0.22	mg/kg	1	06/30/14	07/02/14	ND	SW846 6010C ¹	SW846 3050B ⁴
Cobalt	22.5	16	0.19	mg/kg	1	06/30/14	07/02/14	ND	SW846 6010C ¹	SW846 3050B ⁴
Copper	35.5	8.0	0.48	mg/kg	1	06/30/14	07/02/14	ND	SW846 6010C ¹	SW846 3050B ⁴
Iron	59100	160	3.1	mg/kg	1	06/30/14	07/02/14	ND	SW846 6010C ¹	SW846 3050B ⁴
Lead	73.6	6.4	0.67	mg/kg	1	06/30/14	07/02/14	ND	SW846 6010C ¹	SW846 3050B ⁴
Magnesium	12900	1600	11	mg/kg	1	06/30/14	07/02/14	ND	SW846 6010C ¹	SW846 3050B ⁴
Manganese	620	4.8	0.19	mg/kg	1	06/30/14	07/02/14	ND	SW846 6010C ¹	SW846 3050B ⁴
Mercury	0.055	0.050	0.011	mg/kg	1	07/02/14	07/02/14	DP	SW846 7471B ²	SW846 7471B ⁵
Nickel	64.4	13	0.32	mg/kg	1	06/30/14	07/02/14	ND	SW846 6010C ¹	SW846 3050B ⁴
Potassium	5510	3200	13	mg/kg	1	06/30/14	07/02/14	ND	SW846 6010C ¹	SW846 3050B ⁴
Selenium	1.3 B	6.4	1.1	mg/kg	1	06/30/14	07/02/14	ND	SW846 6010C ¹	SW846 3050B ⁴
Silver	0.45 U	1.6	0.45	mg/kg	1	06/30/14	07/02/14	ND	SW846 6010C ¹	SW846 3050B ⁴
Sodium	1780 B	3200	6.0	mg/kg	1	06/30/14	07/02/14	ND	SW846 6010C ¹	SW846 3050B ⁴
Thallium	1.3 U	3.2	1.3	mg/kg	1	06/30/14	07/03/14	ND	SW846 6010C ³	SW846 3050B ⁴
Vanadium	60.6	16	0.29	mg/kg	1	06/30/14	07/02/14	ND	SW846 6010C ¹	SW846 3050B ⁴
Zinc	137	6.4	1.2	mg/kg	1	06/30/14	07/02/14	ND	SW846 6010C ¹	SW846 3050B ⁴

(1) Instrument QC Batch: MA34361

(2) Instrument QC Batch: MA34366

(3) Instrument QC Batch: MA34391

(4) Prep QC Batch: MP80392

(5) Prep QC Batch: MP80436

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:	415-PE-13	Date Sampled:	06/26/14
Lab Sample ID:	JB70517-2	Date Received:	06/27/14
Matrix:	SO - Soil	Percent Solids:	61.0
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	Y146914.D	1	07/01/14	PS	n/a	n/a	VY6385
Run #2							

Run #	Initial Weight
Run #1	4.9 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	0.0572	0.017	0.0076	mg/kg	
71-43-2	Benzene	ND	0.0017	0.00021	mg/kg	
74-97-5	Bromochloromethane	ND	0.0084	0.00087	mg/kg	
75-27-4	Bromodichloromethane	ND	0.0084	0.00047	mg/kg	
75-25-2	Bromoform	ND	0.0084	0.00044	mg/kg	
74-83-9	Bromomethane	ND	0.0084	0.00080	mg/kg	
78-93-3	2-Butanone (MEK)	0.0111	0.017	0.0074	mg/kg	J
75-15-0	Carbon disulfide	0.0017	0.0084	0.00024	mg/kg	J
56-23-5	Carbon tetrachloride	ND	0.0084	0.00042	mg/kg	
108-90-7	Chlorobenzene	ND	0.0084	0.00033	mg/kg	
75-00-3	Chloroethane	ND	0.0084	0.0017	mg/kg	
67-66-3	Chloroform	ND	0.0084	0.00042	mg/kg	
74-87-3	Chloromethane	ND	0.0084	0.00057	mg/kg	
110-82-7	Cyclohexane	0.0012	0.0084	0.00043	mg/kg	J
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.017	0.0022	mg/kg	
124-48-1	Dibromochloromethane	ND	0.0084	0.00040	mg/kg	
106-93-4	1,2-Dibromoethane	ND	0.0017	0.00092	mg/kg	
95-50-1	1,2-Dichlorobenzene	ND	0.0084	0.00057	mg/kg	
541-73-1	1,3-Dichlorobenzene	ND	0.0084	0.00036	mg/kg	
106-46-7	1,4-Dichlorobenzene	ND	0.0084	0.00042	mg/kg	
75-71-8	Dichlorodifluoromethane	ND	0.0084	0.00059	mg/kg	
75-34-3	1,1-Dichloroethane	ND	0.0084	0.00053	mg/kg	
107-06-2	1,2-Dichloroethane	ND	0.0017	0.00054	mg/kg	
75-35-4	1,1-Dichloroethene	ND	0.0084	0.00048	mg/kg	
156-59-2	cis-1,2-Dichloroethene	ND	0.0084	0.00035	mg/kg	
156-60-5	trans-1,2-Dichloroethene	ND	0.0084	0.00071	mg/kg	
78-87-5	1,2-Dichloropropane	ND	0.0084	0.00073	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0084	0.00038	mg/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0084	0.00045	mg/kg	
100-41-4	Ethylbenzene	ND	0.0017	0.00029	mg/kg	
76-13-1	Freon 113	ND	0.0084	0.00073	mg/kg	
591-78-6	2-Hexanone	ND	0.0084	0.0030	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

Client Sample ID: 415-PE-13	Date Sampled: 06/26/14
Lab Sample ID: JB70517-2	Date Received: 06/27/14
Matrix: SO - Soil	Percent Solids: 61.0
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	0.0084	0.00025	mg/kg	
79-20-9	Methyl Acetate	ND	0.0084	0.0028	mg/kg	
108-87-2	Methylcyclohexane	0.0065	0.0084	0.00027	mg/kg	J
1634-04-4	Methyl Tert Butyl Ether	ND	0.0017	0.00057	mg/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	0.0084	0.0022	mg/kg	
75-09-2	Methylene chloride	ND	0.0084	0.0028	mg/kg	
100-42-5	Styrene	ND	0.0084	0.00039	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0084	0.00057	mg/kg	
127-18-4	Tetrachloroethene	ND	0.0084	0.00069	mg/kg	
108-88-3	Toluene	ND	0.0017	0.00024	mg/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	0.0084	0.00035	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	0.0084	0.00030	mg/kg	
71-55-6	1,1,1-Trichloroethane	ND	0.0084	0.00048	mg/kg	
79-00-5	1,1,2-Trichloroethane	ND	0.0084	0.0014	mg/kg	
79-01-6	Trichloroethene	ND	0.0084	0.00059	mg/kg	
75-69-4	Trichlorofluoromethane	ND	0.0084	0.00038	mg/kg	
75-01-4	Vinyl chloride	ND	0.0084	0.00057	mg/kg	
	m,p-Xylene	ND	0.0017	0.00081	mg/kg	
95-47-6	o-Xylene	ND	0.0017	0.00030	mg/kg	
1330-20-7	Xylene (total)	ND	0.0017	0.00030	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		59-130%
17060-07-0	1,2-Dichloroethane-D4	98%		65-123%
2037-26-5	Toluene-D8	105%		77-125%
460-00-4	4-Bromofluorobenzene	101%		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

Accutest Laboratories

Report of Analysis

Page 1 of 3

Client Sample ID:	415-PE-13	
Lab Sample ID:	JB70517-2	Date Sampled: 06/26/14
Matrix:	SO - Soil	Date Received: 06/27/14
Method:	SW846 8270D SW846 3550C	Percent Solids: 61.0
Project:	Carroll Gardens, 363-365 Bond Street, Brooklyn, NY	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2P38175.D	1	07/05/14	ALS	07/01/14	OP76077	E2P1594
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.8 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	0.11	0.053	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	0.27	0.053	mg/kg	
120-83-2	2,4-Dichlorophenol	ND	0.27	0.086	mg/kg	
105-67-9	2,4-Dimethylphenol	ND	0.27	0.089	mg/kg	
51-28-5	2,4-Dinitrophenol	ND	1.1	0.065	mg/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	1.1	0.065	mg/kg	
95-48-7	2-Methylphenol	ND	0.11	0.061	mg/kg	
	3&4-Methylphenol	ND	0.11	0.068	mg/kg	
88-75-5	2-Nitrophenol	ND	0.27	0.056	mg/kg	
100-02-7	4-Nitrophenol	ND	0.53	0.090	mg/kg	
87-86-5	Pentachlorophenol	ND	0.53	0.091	mg/kg	
108-95-2	Phenol	ND	0.11	0.056	mg/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	0.27	0.055	mg/kg	
95-95-4	2,4,5-Trichlorophenol	ND	0.27	0.062	mg/kg	
88-06-2	2,4,6-Trichlorophenol	ND	0.27	0.050	mg/kg	
83-32-9	Acenaphthene	ND	0.053	0.015	mg/kg	
208-96-8	Acenaphthylene	ND	0.053	0.017	mg/kg	
98-86-2	Acetophenone	ND	0.27	0.0094	mg/kg	
120-12-7	Anthracene	ND	0.053	0.019	mg/kg	
1912-24-9	Atrazine	ND	0.11	0.010	mg/kg	
56-55-3	Benzo(a)anthracene	ND	0.053	0.017	mg/kg	
50-32-8	Benzo(a)pyrene	ND	0.053	0.016	mg/kg	
205-99-2	Benzo(b)fluoranthene	ND	0.053	0.018	mg/kg	
191-24-2	Benzo(g,h,i)perylene	ND	0.053	0.020	mg/kg	
207-08-9	Benzo(k)fluoranthene	ND	0.053	0.020	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	0.11	0.019	mg/kg	
85-68-7	Butyl benzyl phthalate	ND	0.11	0.031	mg/kg	
92-52-4	1,1'-Biphenyl	ND	0.11	0.0062	mg/kg	
100-52-7	Benzaldehyde	ND	0.27	0.012	mg/kg	
91-58-7	2-Chloronaphthalene	ND	0.11	0.016	mg/kg	
106-47-8	4-Chloroaniline	ND	0.27	0.017	mg/kg	
86-74-8	Carbazole	ND	0.11	0.025	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

Client Sample ID: 415-PE-13
Lab Sample ID: JB70517-2
Matrix: SO - Soil
Method: SW846 8270D SW846 3550C
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Date Sampled: 06/26/14

Date Received: 06/27/14

Percent Solids: 61.0

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	0.11	0.017	mg/kg	
218-01-9	Chrysene	ND	0.053	0.018	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	0.11	0.022	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	0.11	0.016	mg/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	0.11	0.016	mg/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.11	0.016	mg/kg	
121-14-2	2,4-Dinitrotoluene	ND	0.053	0.023	mg/kg	
606-20-2	2,6-Dinitrotoluene	ND	0.053	0.020	mg/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	0.11	0.014	mg/kg	
123-91-1	1,4-Dioxane	ND	0.053	0.035	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	0.053	0.018	mg/kg	
132-64-9	Dibenzofuran	ND	0.11	0.016	mg/kg	
84-74-2	Di-n-butyl phthalate	ND	0.11	0.012	mg/kg	
117-84-0	Di-n-octyl phthalate	ND	0.11	0.026	mg/kg	
84-66-2	Diethyl phthalate	ND	0.11	0.018	mg/kg	
131-11-3	Dimethyl phthalate	ND	0.11	0.019	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.11	0.047	mg/kg	
206-44-0	Fluoranthene	ND	0.053	0.023	mg/kg	
86-73-7	Fluorene	ND	0.053	0.017	mg/kg	
118-74-1	Hexachlorobenzene	ND	0.11	0.017	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.053	0.015	mg/kg	
77-47-4	Hexachlorocyclopentadiene	ND	0.53	0.054	mg/kg	
67-72-1	Hexachloroethane	ND	0.27	0.015	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.053	0.018	mg/kg	
78-59-1	Isophorone	ND	0.11	0.014	mg/kg	
91-57-6	2-Methylnaphthalene	ND	0.11	0.030	mg/kg	
88-74-4	2-Nitroaniline	ND	0.27	0.023	mg/kg	
99-09-2	3-Nitroaniline	ND	0.27	0.021	mg/kg	
100-01-6	4-Nitroaniline	ND	0.27	0.021	mg/kg	
91-20-3	Naphthalene	ND	0.053	0.015	mg/kg	
98-95-3	Nitrobenzene	ND	0.11	0.015	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	0.11	0.013	mg/kg	
86-30-6	N-Nitrosodiphenylamine	ND	0.27	0.032	mg/kg	
85-01-8	Phenanthrene	ND	0.053	0.024	mg/kg	
129-00-0	Pyrene	0.0239	0.053	0.020	mg/kg	J
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	0.27	0.016	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	88%		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

Client Sample ID:	415-PE-13	Date Sampled:	06/26/14
Lab Sample ID:	JB70517-2	Date Received:	06/27/14
Matrix:	SO - Soil	Percent Solids:	61.0
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	94%		15-110%
118-79-6	2,4,6-Tribromophenol	113%		20-123%
4165-60-0	Nitrobenzene-d5	96%		10-110%
321-60-8	2-Fluorobiphenyl	101%		17-110%
1718-51-0	Terphenyl-d14	112%		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

Client Sample ID: 415-PE-13

Lab Sample ID: JB70517-2

Matrix: SO - Soil

Date Sampled: 06/26/14

Date Received: 06/27/14

Percent Solids: 61.0

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

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analized By	Method	Prep Method	
Aluminum	16300	160	4.2	mg/kg	1	06/30/14	07/02/14	ND	SW846 6010C ¹	SW846 3050B ³
Antimony	0.87 U	6.4	0.87	mg/kg	1	06/30/14	07/02/14	ND	SW846 6010C ¹	SW846 3050B ³
Arsenic	15.4	6.4	0.93	mg/kg	1	06/30/14	07/02/14	ND	SW846 6010C ¹	SW846 3050B ³
Barium	80.0	64	0.26	mg/kg	1	06/30/14	07/02/14	ND	SW846 6010C ¹	SW846 3050B ³
Beryllium	1.2	0.64	0.064	mg/kg	1	06/30/14	07/02/14	ND	SW846 6010C ¹	SW846 3050B ³
Cadmium	0.26 B	1.6	0.16	mg/kg	1	06/30/14	07/02/14	ND	SW846 6010C ¹	SW846 3050B ³
Calcium	5770	1600	9.7	mg/kg	1	06/30/14	07/02/14	ND	SW846 6010C ¹	SW846 3050B ³
Chromium	33.7	3.2	0.23	mg/kg	1	06/30/14	07/02/14	ND	SW846 6010C ¹	SW846 3050B ³
Cobalt	10.5 B	16	0.19	mg/kg	1	06/30/14	07/02/14	ND	SW846 6010C ¹	SW846 3050B ³
Copper	29.9	8.0	0.48	mg/kg	1	06/30/14	07/02/14	ND	SW846 6010C ¹	SW846 3050B ³
Iron	37000	160	3.1	mg/kg	1	06/30/14	07/02/14	ND	SW846 6010C ¹	SW846 3050B ³
Lead	147	6.4	0.68	mg/kg	1	06/30/14	07/02/14	ND	SW846 6010C ¹	SW846 3050B ³
Magnesium	6750	1600	11	mg/kg	1	06/30/14	07/02/14	ND	SW846 6010C ¹	SW846 3050B ³
Manganese	347	4.8	0.19	mg/kg	1	06/30/14	07/02/14	ND	SW846 6010C ¹	SW846 3050B ³
Mercury	0.13	0.053	0.012	mg/kg	1	07/02/14	07/02/14	DP	SW846 7471B ²	SW846 7471B ⁴
Nickel	36.5	13	0.32	mg/kg	1	06/30/14	07/02/14	ND	SW846 6010C ¹	SW846 3050B ³
Potassium	3150 B	3200	13	mg/kg	1	06/30/14	07/02/14	ND	SW846 6010C ¹	SW846 3050B ³
Selenium	1.1 U	6.4	1.1	mg/kg	1	06/30/14	07/02/14	ND	SW846 6010C ¹	SW846 3050B ³
Silver	0.45 U	1.6	0.45	mg/kg	1	06/30/14	07/02/14	ND	SW846 6010C ¹	SW846 3050B ³
Sodium	1050 B	3200	6.0	mg/kg	1	06/30/14	07/02/14	ND	SW846 6010C ¹	SW846 3050B ³
Thallium	1.4 B	3.2	1.3	mg/kg	1	06/30/14	07/02/14	ND	SW846 6010C ¹	SW846 3050B ³
Vanadium	46.0	16	0.29	mg/kg	1	06/30/14	07/02/14	ND	SW846 6010C ¹	SW846 3050B ³
Zinc	89.1	6.4	1.2	mg/kg	1	06/30/14	07/02/14	ND	SW846 6010C ¹	SW846 3050B ³

(1) Instrument QC Batch: MA34361

(2) Instrument QC Batch: MA34366

(3) Prep QC Batch: MP80392

(4) Prep QC Batch: MP80436

RL = Reporting Limit

MDL = Method Detection Limit

U = Indicates a result < MDL

B = Indicates a result > = MDL but < RL

Accutest Laboratories

Report of Analysis

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Client Sample ID:	416-FB-20	Date Sampled:	06/26/14
Lab Sample ID:	JB70517-3	Date Received:	06/27/14
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	4D49961.D	1	07/03/14	PR	n/a	n/a	V4D2227
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	4.2	10	3.3	ug/l	J
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

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

Client Sample ID:	416-FB-20	Date Sampled:	06/26/14
Lab Sample ID:	JB70517-3	Date Received:	06/27/14
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	95%		79-120%
17060-07-0	1,2-Dichloroethane-D4	113%		72-123%
2037-26-5	Toluene-D8	96%		78-119%
460-00-4	4-Bromofluorobenzene	84%		74-119%

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J = Indicates an estimated value

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N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

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Client Sample ID:	416-FB-20	Date Sampled:	06/26/14
Lab Sample ID:	JB70517-3	Date Received:	06/27/14
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	F36797.D	1	07/06/14	AD	07/03/14	OP76142	EF5726
Run #2							

Run #	Initial Volume	Final Volume
Run #1	900 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	5.6	1.4	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.6	1.4	ug/l	
120-83-2	2,4-Dichlorophenol	ND	2.2	1.8	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.6	2.0	ug/l	
51-28-5	2,4-Dinitrophenol	ND	22	7.2	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	22	1.5	ug/l	
95-48-7	2-Methylphenol	ND	2.2	1.4	ug/l	
	3&4-Methylphenol	ND	2.2	1.2	ug/l	
88-75-5	2-Nitrophenol	ND	5.6	2.1	ug/l	
100-02-7	4-Nitrophenol	ND	11	1.0	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.5	ug/l	
108-95-2	Phenol	ND	2.2	0.61	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.6	1.6	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.6	1.9	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.6	1.7	ug/l	
83-32-9	Acenaphthene	ND	1.1	0.33	ug/l	
208-96-8	Acenaphthylene	ND	1.1	0.22	ug/l	
98-86-2	Acetophenone	ND	2.2	0.40	ug/l	
120-12-7	Anthracene	ND	1.1	0.21	ug/l	
1912-24-9	Atrazine	ND	2.2	0.47	ug/l	
100-52-7	Benzaldehyde	ND	5.6	0.75	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.1	0.24	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.1	0.27	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.1	0.25	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.1	0.34	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.1	0.24	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.2	0.28	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.2	0.25	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.1	0.30	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.2	0.38	ug/l	
106-47-8	4-Chloroaniline	ND	5.6	0.33	ug/l	
86-74-8	Carbazole	ND	1.1	0.19	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

Client Sample ID:	416-FB-20	Date Sampled:	06/26/14
Lab Sample ID:	JB70517-3	Date Received:	06/27/14
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	2.2	0.45	ug/l	
218-01-9	Chrysene	ND	1.1	0.18	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.2	0.47	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.2	0.48	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.2	0.45	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.2	0.42	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	1.1	0.36	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	1.1	0.28	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	2.2	0.62	ug/l	
123-91-1	1,4-Dioxane	ND	1.1	0.79	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.1	0.31	ug/l	
132-64-9	Dibenzofuran	ND	5.6	0.25	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.2	0.65	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.2	0.28	ug/l	
84-66-2	Diethyl phthalate	ND	2.2	0.26	ug/l	
131-11-3	Dimethyl phthalate	ND	2.2	0.29	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.2	0.62	ug/l	
206-44-0	Fluoranthene	ND	1.1	0.18	ug/l	
86-73-7	Fluorene	ND	1.1	0.30	ug/l	
118-74-1	Hexachlorobenzene	ND	1.1	0.51	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.1	0.43	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	0.54	ug/l	
67-72-1	Hexachloroethane	ND	2.2	0.32	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.1	0.45	ug/l	
78-59-1	Isophorone	ND	2.2	0.38	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.1	0.32	ug/l	
88-74-4	2-Nitroaniline	ND	5.6	0.35	ug/l	
99-09-2	3-Nitroaniline	ND	5.6	0.29	ug/l	
100-01-6	4-Nitroaniline	ND	5.6	0.33	ug/l	
91-20-3	Naphthalene	ND	1.1	0.29	ug/l	
98-95-3	Nitrobenzene	ND	2.2	0.58	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.2	0.42	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.6	0.23	ug/l	
85-01-8	Phenanthrene	ND	1.1	0.21	ug/l	
129-00-0	Pyrene	ND	1.1	0.21	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.2	0.49	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	42%		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

Client Sample ID:	416-FB-20	Date Sampled:	06/26/14
Lab Sample ID:	JB70517-3	Date Received:	06/27/14
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	29%		10-110%
118-79-6	2,4,6-Tribromophenol	97%		29-139%
4165-60-0	Nitrobenzene-d5	74%		28-131%
321-60-8	2-Fluorobiphenyl	71%		30-121%
1718-51-0	Terphenyl-d14	90%		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

Client Sample ID: 416-FB-20

Lab Sample ID: JB70517-3

Matrix: AQ - Field Blank Soil

Date Sampled: 06/26/14

Date Received: 06/27/14

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	06/30/14	07/03/14	ND	SW846 6010C ¹	SW846 3010A ³
Antimony	2.6 U	6.0	2.6	ug/l	1	06/30/14	07/03/14	ND	SW846 6010C ¹	SW846 3010A ³
Arsenic	2.6 U	3.0	2.6	ug/l	1	06/30/14	07/03/14	ND	SW846 6010C ¹	SW846 3010A ³
Barium	1.0 U	200	1.0	ug/l	1	06/30/14	07/03/14	ND	SW846 6010C ¹	SW846 3010A ³
Beryllium	0.40 U	1.0	0.40	ug/l	1	06/30/14	07/03/14	ND	SW846 6010C ¹	SW846 3010A ³
Cadmium	0.70 U	3.0	0.70	ug/l	1	06/30/14	07/03/14	ND	SW846 6010C ¹	SW846 3010A ³
Calcium	120 B	5000	19	ug/l	1	06/30/14	07/03/14	ND	SW846 6010C ¹	SW846 3010A ³
Chromium	0.89 U	10	0.89	ug/l	1	06/30/14	07/03/14	ND	SW846 6010C ¹	SW846 3010A ³
Cobalt	0.83 U	50	0.83	ug/l	1	06/30/14	07/03/14	ND	SW846 6010C ¹	SW846 3010A ³
Copper	1.2 U	10	1.2	ug/l	1	06/30/14	07/03/14	ND	SW846 6010C ¹	SW846 3010A ³
Iron	12 U	100	12	ug/l	1	06/30/14	07/03/14	ND	SW846 6010C ¹	SW846 3010A ³
Lead	1.3 U	3.0	1.3	ug/l	1	06/30/14	07/03/14	ND	SW846 6010C ¹	SW846 3010A ³
Magnesium	41 U	5000	41	ug/l	1	06/30/14	07/03/14	ND	SW846 6010C ¹	SW846 3010A ³
Manganese	0.48 U	15	0.48	ug/l	1	06/30/14	07/03/14	ND	SW846 6010C ¹	SW846 3010A ³
Mercury	0.064 U	0.20	0.064	ug/l	1	07/07/14	07/07/14	DP	SW846 7470A ²	SW846 7470A ⁴
Nickel	0.75 U	10	0.75	ug/l	1	06/30/14	07/03/14	ND	SW846 6010C ¹	SW846 3010A ³
Potassium	50 U	10000	50	ug/l	1	06/30/14	07/03/14	ND	SW846 6010C ¹	SW846 3010A ³
Selenium	3.6 U	10	3.6	ug/l	1	06/30/14	07/03/14	ND	SW846 6010C ¹	SW846 3010A ³
Silver	1.2 U	10	1.2	ug/l	1	06/30/14	07/03/14	ND	SW846 6010C ¹	SW846 3010A ³
Sodium	430 B	10000	19	ug/l	1	06/30/14	07/03/14	ND	SW846 6010C ¹	SW846 3010A ³
Thallium	1.8 U	2.0	1.8	ug/l	1	06/30/14	07/03/14	ND	SW846 6010C ¹	SW846 3010A ³
Vanadium	0.87 U	50	0.87	ug/l	1	06/30/14	07/03/14	ND	SW846 6010C ¹	SW846 3010A ³
Zinc	7.6 U	20	7.6	ug/l	1	06/30/14	07/03/14	ND	SW846 6010C ¹	SW846 3010A ³

(1) Instrument QC Batch: MA34378

(2) Instrument QC Batch: MA34395

(3) Prep QC Batch: MP80388

(4) Prep QC Batch: MP80495

RL = Reporting Limit

MDL = Method Detection Limit

U = Indicates a result < MDL

B = Indicates a result > = MDL but < RL

Accutest Laboratories

Report of Analysis

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Client Sample ID:	417-FB-21	Date Sampled:	06/26/14
Lab Sample ID:	JB70517-4	Date Received:	06/27/14
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	4D49962.D	1	07/03/14	PR	n/a	n/a	V4D2227
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	4.1	10	3.3	ug/l	J
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

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

Client Sample ID:	417-FB-21	Date Sampled:	06/26/14
Lab Sample ID:	JB70517-4	Date Received:	06/27/14
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	95%		79-120%
17060-07-0	1,2-Dichloroethane-D4	115%		72-123%
2037-26-5	Toluene-D8	96%		78-119%
460-00-4	4-Bromofluorobenzene	83%		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

Accutest Laboratories

Report of Analysis

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Client Sample ID:	417-FB-21	
Lab Sample ID:	JB70517-4	Date Sampled: 06/26/14
Matrix:	AQ - Field Blank Soil	Date Received: 06/27/14
Method:	SW846 8270D SW846 3510C	Percent Solids: n/a
Project:	Carroll Gardens, 363-365 Bond Street, Brooklyn, NY	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F36798.D	1	07/06/14	AD	07/03/14	OP76142	EF5726
Run #2							

	Initial Volume	Final Volume
Run #1	870 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	5.7	1.4	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.7	1.5	ug/l	
120-83-2	2,4-Dichlorophenol	ND	2.3	1.9	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.7	2.1	ug/l	
51-28-5	2,4-Dinitrophenol	ND	23	7.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	23	1.5	ug/l	
95-48-7	2-Methylphenol	ND	2.3	1.5	ug/l	
	3&4-Methylphenol	ND	2.3	1.2	ug/l	
88-75-5	2-Nitrophenol	ND	5.7	2.1	ug/l	
100-02-7	4-Nitrophenol	ND	11	1.0	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.6	ug/l	
108-95-2	Phenol	ND	2.3	0.63	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.7	1.6	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.7	2.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.7	1.8	ug/l	
83-32-9	Acenaphthene	ND	1.1	0.34	ug/l	
208-96-8	Acenaphthylene	ND	1.1	0.23	ug/l	
98-86-2	Acetophenone	ND	2.3	0.42	ug/l	
120-12-7	Anthracene	ND	1.1	0.22	ug/l	
1912-24-9	Atrazine	ND	2.3	0.49	ug/l	
100-52-7	Benzaldehyde	ND	5.7	0.77	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.1	0.25	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.1	0.28	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.1	0.26	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.1	0.36	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.1	0.25	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.3	0.29	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.3	0.26	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.1	0.31	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.3	0.39	ug/l	
106-47-8	4-Chloroaniline	ND	5.7	0.34	ug/l	
86-74-8	Carbazole	ND	1.1	0.19	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

Client Sample ID:	417-FB-21	Date Sampled:	06/26/14
Lab Sample ID:	JB70517-4	Date Received:	06/27/14
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	2.3	0.47	ug/l	
218-01-9	Chrysene	ND	1.1	0.19	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.3	0.48	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.3	0.50	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.3	0.47	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.3	0.44	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	1.1	0.37	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	1.1	0.29	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	2.3	0.64	ug/l	
123-91-1	1,4-Dioxane	ND	1.1	0.82	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.1	0.32	ug/l	
132-64-9	Dibenzofuran	ND	5.7	0.26	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.3	0.67	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.3	0.29	ug/l	
84-66-2	Diethyl phthalate	ND	2.3	0.27	ug/l	
131-11-3	Dimethyl phthalate	ND	2.3	0.30	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.3	0.64	ug/l	
206-44-0	Fluoranthene	ND	1.1	0.19	ug/l	
86-73-7	Fluorene	ND	1.1	0.31	ug/l	
118-74-1	Hexachlorobenzene	ND	1.1	0.53	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.1	0.45	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	0.55	ug/l	
67-72-1	Hexachloroethane	ND	2.3	0.33	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.1	0.46	ug/l	
78-59-1	Isophorone	ND	2.3	0.39	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.1	0.33	ug/l	
88-74-4	2-Nitroaniline	ND	5.7	0.36	ug/l	
99-09-2	3-Nitroaniline	ND	5.7	0.30	ug/l	
100-01-6	4-Nitroaniline	ND	5.7	0.35	ug/l	
91-20-3	Naphthalene	ND	1.1	0.30	ug/l	
98-95-3	Nitrobenzene	ND	2.3	0.60	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.3	0.43	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.7	0.24	ug/l	
85-01-8	Phenanthrene	ND	1.1	0.21	ug/l	
129-00-0	Pyrene	ND	1.1	0.22	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.3	0.51	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	47%		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

Client Sample ID:	417-FB-21	Date Sampled:	06/26/14
Lab Sample ID:	JB70517-4	Date Received:	06/27/14
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	33%		10-110%
118-79-6	2,4,6-Tribromophenol	105%		29-139%
4165-60-0	Nitrobenzene-d5	79%		28-131%
321-60-8	2-Fluorobiphenyl	75%		30-121%
1718-51-0	Terphenyl-d14	92%		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

Client Sample ID: 417-FB-21

Lab Sample ID: JB70517-4

Matrix: AQ - Field Blank Soil

Date Sampled: 06/26/14

Date Received: 06/27/14

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	06/30/14	07/03/14	ND	SW846 6010C ¹ SW846 3010A ³
Antimony	2.6 U	6.0	2.6	ug/l	1	06/30/14	07/03/14	ND	SW846 6010C ¹ SW846 3010A ³
Arsenic	2.6 U	3.0	2.6	ug/l	1	06/30/14	07/03/14	ND	SW846 6010C ¹ SW846 3010A ³
Barium	1.0 U	200	1.0	ug/l	1	06/30/14	07/03/14	ND	SW846 6010C ¹ SW846 3010A ³
Beryllium	0.40 U	1.0	0.40	ug/l	1	06/30/14	07/03/14	ND	SW846 6010C ¹ SW846 3010A ³
Cadmium	0.70 U	3.0	0.70	ug/l	1	06/30/14	07/03/14	ND	SW846 6010C ¹ SW846 3010A ³
Calcium	113 B	5000	19	ug/l	1	06/30/14	07/03/14	ND	SW846 6010C ¹ SW846 3010A ³
Chromium	0.89 U	10	0.89	ug/l	1	06/30/14	07/03/14	ND	SW846 6010C ¹ SW846 3010A ³
Cobalt	0.83 U	50	0.83	ug/l	1	06/30/14	07/03/14	ND	SW846 6010C ¹ SW846 3010A ³
Copper	1.2 U	10	1.2	ug/l	1	06/30/14	07/03/14	ND	SW846 6010C ¹ SW846 3010A ³
Iron	12 U	100	12	ug/l	1	06/30/14	07/03/14	ND	SW846 6010C ¹ SW846 3010A ³
Lead	1.3 U	3.0	1.3	ug/l	1	06/30/14	07/03/14	ND	SW846 6010C ¹ SW846 3010A ³
Magnesium	41 U	5000	41	ug/l	1	06/30/14	07/03/14	ND	SW846 6010C ¹ SW846 3010A ³
Manganese	0.48 U	15	0.48	ug/l	1	06/30/14	07/03/14	ND	SW846 6010C ¹ SW846 3010A ³
Mercury	0.064 U	0.20	0.064	ug/l	1	07/07/14	07/07/14	DP	SW846 7470A ² SW846 7470A ⁴
Nickel	0.75 U	10	0.75	ug/l	1	06/30/14	07/03/14	ND	SW846 6010C ¹ SW846 3010A ³
Potassium	50 U	10000	50	ug/l	1	06/30/14	07/03/14	ND	SW846 6010C ¹ SW846 3010A ³
Selenium	3.6 U	10	3.6	ug/l	1	06/30/14	07/03/14	ND	SW846 6010C ¹ SW846 3010A ³
Silver	1.2 U	10	1.2	ug/l	1	06/30/14	07/03/14	ND	SW846 6010C ¹ SW846 3010A ³
Sodium	417 B	10000	19	ug/l	1	06/30/14	07/03/14	ND	SW846 6010C ¹ SW846 3010A ³
Thallium	1.8 U	2.0	1.8	ug/l	1	06/30/14	07/03/14	ND	SW846 6010C ¹ SW846 3010A ³
Vanadium	0.87 U	50	0.87	ug/l	1	06/30/14	07/03/14	ND	SW846 6010C ¹ SW846 3010A ³
Zinc	7.6 U	20	7.6	ug/l	1	06/30/14	07/03/14	ND	SW846 6010C ¹ SW846 3010A ³

(1) Instrument QC Batch: MA34378

(2) Instrument QC Batch: MA34395

(3) Prep QC Batch: MP80388

(4) Prep QC Batch: MP80495

RL = Reporting Limit

MDL = Method Detection Limit

U = Indicates a result < MDL

B = Indicates a result > = MDL but < RL

Accutest Laboratories

Report of Analysis

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Client Sample ID:	418-TB-18	Date Sampled:	06/26/14
Lab Sample ID:	JB70517-5	Date Received:	06/27/14
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	4D49963.D	1	07/03/14	PR	n/a	n/a	V4D2227
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

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

Client Sample ID:	418-TB-18	Date Sampled:	06/26/14
Lab Sample ID:	JB70517-5	Date Received:	06/27/14
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	94%		79-120%
17060-07-0	1,2-Dichloroethane-D4	113%		72-123%
2037-26-5	Toluene-D8	96%		78-119%
460-00-4	4-Bromofluorobenzene	84%		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

Misc. Forms

5

Custody Documents and Other Forms

Includes the following where applicable:

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

SU
FB
STB

CHAIN OF CUSTODY

PAGE 1 OF 1

2235 Route 130, Dayton, NJ 08810
TEL: 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

Client / Reporting Information		Project Information		Requested Analysis (see TEST CODE sheet)		Matrix Codes	
Company Name Langan Street Address 100 River Drive City Chubbuck Park State MS Zip 39407 Project Contact McMahon, Deekard Phone # 701-794-6900 Project Manager(s) Christine B. Madsen		Project Name Bmd St Redevelopment Street Address 305 Bmd St City Brooklyn State NJ Project # 100257501 Client Purchase Order # Project Manager McCloskey		Requested Analysis VOCs, SVOCs, TAL Metals Matrix Codes DW - Drinking Water, GW - Ground Water, WW - Water, SW - Surface Water, SO - Soil, SL - Sludge, SED - Sediment, OI - Oil, LIQ - Other Liquid, AIR - Air, SOL - Other Solid, WP - Wipe, FB - Field Blank, EB - Equipment Blank, RB - Rinse Blank, TB - Trip Blank		Matrix Codes LAB USE ONLY M26 M71 4985 E10 A14 U974	
Field ID / Point of Collection 1 Y14-PE-107-30 2 Y15-PE-13 3 Y16-FB-70 4 Y17-FB-71 5 Y18-TB-18		MECH/OI Val # 1 2 3 4 5		Date 6/26/14 6/26/14 6/26/14 6/27/14 6/27/14		Time 1030 1055 1545 0945 0945	
Sampled by 1 CM 2 CM 3 CM 4 CM 5 CM		Matrix 1 S 2 S 3 FB 4 FB 5 FB		# of bottles 1 7 2 4 3 2 4 2 5 2		Number of preserved bottles HCL, HNO3, H2SO4, NONE, DI Water, MECH, EUCAL	
Turnaround Time (Business days) ☒ Std. 10 Business Days ☐ 5 Day RUSH ☐ 3 Day EMERGENCY ☐ 2 Day EMERGENCY ☐ 1 Day EMERGENCY ☐ other		Approved By (Accutest PM): / Date: _____		Data Deliverable Information ☐ Commercial "A" (Level 1) ☐ Commercial "B" (Level 2) ☐ FULLT1 (Level 3+4) ☐ NJ Reduced ☐ Commercial "C" ☐ NYASP Category A ☐ NYASP Category B ☐ State Forms ☒ EDD Format ☒ Other: BROWNFIELD		Comments / Special Instructions Electronic copies only report in mg/kg to MDL * extra volume forms/MSD	
Emergency & Rush TIA data available VIA Lablink Relinquished by: _____ Relinquished by Sampler: _____ Relinquished by: _____		Sample Custody must be documented below each time samples change possession, including courier delivery. Received By: Chris Law Date/Time: 6/27/14 17:55 Relinquished By: _____ Date/Time: _____ Relinquished By: _____ Date/Time: _____ Relinquished By: _____ Date/Time: _____		Custody Seal # ☐ Intact ☐ Not intact Preserved where applicable Cooler Temp. 4.0°C		Signature _____	

JB70517: Chain of Custody

Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB70517 **Client:** _____ **Project:** _____
Date / Time Received: 6/27/2014 **Delivery Method:** _____ **Airbill #s:** _____
Cooler Temps (Initial/Adjusted): #1: (4/3.7); 0

Cooler Security

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

Cooler Temperature

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

Sample Integrity - Condition

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

Sample Integrity - Instructions

	<u>Y</u>	<u>or</u>	<u>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: JB70517

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

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JB70517-1 Collected: 26-JUN-14 10:30 By: CBM Received: 27-JUN-14 By: AS 414-PE-30						
JB70517-1	SM2540 G-97	30-JUN-14 13:30	AA			%SOL
JB70517-1	SW846 8260C	01-JUL-14 18:45	PS			VC8260TCL20
JB70517-1	SW846 6010C	02-JUL-14 04:15	ND	30-JUN-14	WWZ	AG,AL,AS,BA,BE,CA,CD,CO,CR, CU,FE,K,MG,MN,NA,NI,PB,SB, SE,V,ZN
JB70517-1	SW846 7471B	02-JUL-14 13:15	DP	02-JUL-14	DP	HG
JB70517-1	SW846 6010C	03-JUL-14 23:03	ND	30-JUN-14	WWZ	TL
JB70517-1	SW846 8270D	05-JUL-14 18:14	ALS	01-JUL-14	FN	AB8270TCL20
JB70517-2 Collected: 26-JUN-14 10:55 By: CBM Received: 27-JUN-14 By: AS 415-PE-13						
JB70517-2	SM2540 G-97	30-JUN-14 13:30	AA			%SOL
JB70517-2	SW846 8260C	01-JUL-14 19:14	PS			VC8260TCL20
JB70517-2	SW846 6010C	02-JUL-14 04:27	ND	30-JUN-14	WWZ	AG,AL,AS,BA,BE,CA,CD,CO,CR, CU,FE,K,MG,MN,NA,NI,PB,SB, SE,TL,V,ZN
JB70517-2	SW846 7471B	02-JUL-14 13:16	DP	02-JUL-14	DP	HG
JB70517-2	SW846 8270D	05-JUL-14 18:36	ALS	01-JUL-14	FN	AB8270TCL20
JB70517-3 Collected: 26-JUN-14 15:45 By: CBM Received: 27-JUN-14 By: AS 416-FB-20						
JB70517-3	SW846 6010C	03-JUL-14 02:24	ND	30-JUN-14	WWZ	AG,AL,AS,BA,BE,CA,CD,CO,CR, CU,FE,K,MG,MN,NA,NI,PB,SB, SE,TL,V,ZN
JB70517-3	SW846 8260C	03-JUL-14 17:11	PR			VC8260TCL20
JB70517-3	SW846 8270D	06-JUL-14 19:54	AD	03-JUL-14	RM	AB8270TCL20
JB70517-3	SW846 7470A	07-JUL-14 15:52	DP	07-JUL-14	DP	HG
JB70517-4 Collected: 26-JUN-14 09:45 By: CBM Received: 27-JUN-14 By: AS 417-FB-21						
JB70517-4	SW846 6010C	03-JUL-14 02:31	ND	30-JUN-14	WWZ	AG,AL,AS,BA,BE,CA,CD,CO,CR, CU,FE,K,MG,MN,NA,NI,PB,SB, SE,TL,V,ZN
JB70517-4	SW846 8260C	03-JUL-14 17:39	PR			VC8260TCL20

Internal Sample Tracking Chronicle

Langan Engineering & Environmental

Job No: JB70517

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

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JB70517-4	SW846 8270D	06-JUL-14 20:23	AD	03-JUL-14	RM	AB8270TCL20
JB70517-4	SW846 7470A	07-JUL-14 15:53	DP	07-JUL-14	DP	HG
JB70517-5 Collected: 26-JUN-14 15:45 By: CBM Received: 27-JUN-14 By: AS						
418-TB-18						
JB70517-5	SW846 8260C	03-JUL-14 18:06	PR			VC8260TCL20

Accutest Internal Chain of Custody

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Job Number: JB70517
Account: LANGAN Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY
Received: 06/27/14

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB70517-1.1	Secured Storage	Gage Donahue	06/30/14 09:20	Retrieve from Storage
JB70517-1.1	Gage Donahue	Secured Staging Area	06/30/14 09:20	Return to Storage
JB70517-1.1	Secured Staging Area	Aly Abdelgawad	06/30/14 12:46	Retrieve from Storage
JB70517-1.1	Aly Abdelgawad	Secured Storage	06/30/14 13:53	Return to Storage
JB70517-1.1	Secured Storage	Eric Barksdale	06/30/14 18:17	Retrieve from Storage
JB70517-1.1	Eric Barksdale	Secured Staging Area	06/30/14 18:18	Return to Storage
JB70517-1.1	Secured Staging Area	Michael Bunza	06/30/14 18:19	Retrieve from Storage
JB70517-1.1	Michael Bunza	Secured Storage	06/30/14 20:27	Return to Storage
JB70517-1.1	Secured Storage	Mike Sikorsky	07/01/14 07:55	Retrieve from Storage
JB70517-1.1	Mike Sikorsky	Secured Storage	07/01/14 10:39	Return to Storage
JB70517-1.1	Secured Storage	Alfredo Crespo	07/02/14 07:20	Retrieve from Storage
JB70517-1.1	Alfredo Crespo	Secured Staging Area	07/02/14 07:20	Return to Storage
JB70517-1.1	Secured Staging Area	Darshanaben Patel	07/02/14 08:23	Retrieve from Storage
JB70517-1.1	Darshanaben Patel	Secured Storage	07/02/14 15:01	Return to Storage
JB70517-1.1	Secured Storage	Gage Donahue	07/03/14 09:09	Retrieve from Storage
JB70517-1.1	Gage Donahue	Secured Staging Area	07/03/14 09:09	Return to Storage
JB70517-1.1	Secured Staging Area	Nicole Reiff	07/03/14 09:20	Retrieve from Storage
JB70517-1.1	Nicole Reiff	Secured Storage	07/03/14 12:20	Return to Storage
JB70517-1.1.1	Michael Bunza	Metals Digestion	06/30/14 20:24	Digestate from JB70517-1.1
JB70517-1.1.1	Metals Digestion	Michael Bunza	06/30/14 20:24	Digestate from JB70517-1.1
JB70517-1.1.1	Michael Bunza	Metals Digestate Storage	06/30/14 20:25	Return to Storage
JB70517-1.1.2	Mike Sikorsky	Organics Prep	07/01/14 07:56	Extract from JB70517-1.1
JB70517-1.1.2	Organics Prep	Finley Nyaata	07/01/14 14:13	Extract from JB70517-1.1
JB70517-1.1.2	Finley Nyaata	Extract Storage	07/01/14 14:13	Return to Storage
JB70517-1.1.2	Extract Storage	Andrew Lee Smith	07/05/14 14:32	Retrieve from Storage
JB70517-1.1.2	Andrew Lee Smith	GCMS2P	07/05/14 14:32	Load on Instrument
JB70517-1.1.2	GCMS2P	Elwira Antonik	07/09/14 10:18	Unload from Instrument
JB70517-1.1.2	Elwira Antonik	Extract Freezer	07/09/14 10:18	Return to Storage
JB70517-1.4	Secured Storage	Prashant Shukla	07/01/14 18:01	Retrieve from Storage
JB70517-1.4	Prashant Shukla	GCMSY	07/01/14 18:01	Load on Instrument
JB70517-1.4	GCMSY	Prashant Shukla	07/02/14 17:21	Unload from Instrument
JB70517-1.4	Prashant Shukla		07/02/14 17:21	Depleted
JB70517-1.6	Secured Storage	Prashant Shukla	07/01/14 18:21	Retrieve from Storage
JB70517-1.6	Prashant Shukla	GCMSY	07/01/14 18:21	Load on Instrument
JB70517-1.6	GCMSY	Prashant Shukla	07/02/14 17:21	Unload from Instrument
JB70517-1.6	Prashant Shukla		07/02/14 17:21	Depleted
JB70517-1.7	Secured Storage	Prashant Shukla	07/01/14 18:21	Retrieve from Storage
JB70517-1.7	Prashant Shukla	GCMSY	07/01/14 18:21	Load on Instrument
JB70517-1.7	GCMSY	Prashant Shukla	07/02/14 17:21	Unload from Instrument

Accutest Internal Chain of Custody

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Job Number: JB70517
Account: LANGAN Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY
Received: 06/27/14

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB70517-1.7	Prashant Shukla		07/02/14 17:21	Depleted
JB70517-2.1	Secured Storage	Gage Donahue	06/30/14 09:20	Retrieve from Storage
JB70517-2.1	Gage Donahue	Secured Staging Area	06/30/14 09:20	Return to Storage
JB70517-2.1	Secured Staging Area	Aly Abdelgawad	06/30/14 12:46	Retrieve from Storage
JB70517-2.1	Aly Abdelgawad	Secured Storage	06/30/14 13:53	Return to Storage
JB70517-2.1	Secured Storage	Eric Barksdale	06/30/14 18:17	Retrieve from Storage
JB70517-2.1	Eric Barksdale	Secured Staging Area	06/30/14 18:18	Return to Storage
JB70517-2.1	Secured Staging Area	Michael Bunza	06/30/14 18:19	Retrieve from Storage
JB70517-2.1	Michael Bunza	Secured Storage	06/30/14 20:27	Return to Storage
JB70517-2.1	Secured Storage	Mike Sikorsky	07/01/14 07:55	Retrieve from Storage
JB70517-2.1	Mike Sikorsky	Secured Storage	07/01/14 10:39	Return to Storage
JB70517-2.1	Secured Storage	Alfredo Crespo	07/02/14 07:20	Retrieve from Storage
JB70517-2.1	Alfredo Crespo	Secured Staging Area	07/02/14 07:20	Return to Storage
JB70517-2.1	Secured Staging Area	Darshananben Patel	07/02/14 08:23	Retrieve from Storage
JB70517-2.1	Darshananben Patel	Secured Storage	07/02/14 15:01	Return to Storage
JB70517-2.1.1	Michael Bunza	Metals Digestion	06/30/14 20:24	Digestate from JB70517-2.1
JB70517-2.1.1	Metals Digestion	Michael Bunza	06/30/14 20:24	Digestate from JB70517-2.1
JB70517-2.1.1	Michael Bunza	Metals Digestate Storage	06/30/14 20:25	Return to Storage
JB70517-2.1.2	Mike Sikorsky	Organics Prep	07/01/14 07:56	Extract from JB70517-2.1
JB70517-2.1.2	Organics Prep	Finley Nyaata	07/01/14 14:13	Extract from JB70517-2.1
JB70517-2.1.2	Finley Nyaata	Extract Storage	07/01/14 14:13	Return to Storage
JB70517-2.1.2	Extract Storage	Andrew Lee Smith	07/05/14 14:32	Retrieve from Storage
JB70517-2.1.2	Andrew Lee Smith	GCMS2P	07/05/14 14:32	Load on Instrument
JB70517-2.1.2	GCMS2P	Elwira Antonik	07/09/14 10:18	Unload from Instrument
JB70517-2.1.2	Elwira Antonik	Extract Freezer	07/09/14 10:18	Return to Storage
JB70517-2.3	Secured Storage	Prashant Shukla	07/01/14 18:01	Retrieve from Storage
JB70517-2.3	Prashant Shukla	GCMSY	07/01/14 18:01	Load on Instrument
JB70517-2.3	GCMSY	Prashant Shukla	07/02/14 17:21	Unload from Instrument
JB70517-2.3	Prashant Shukla		07/02/14 17:21	Depleted
JB70517-3.1	Secured Storage	Brian Johnson	07/03/14 06:30	Retrieve from Storage
JB70517-3.1	Brian Johnson		07/03/14 11:14	Depleted
JB70517-3.1.1	Brian Johnson	Organics Prep	07/03/14 06:52	Extract from JB70517-3.1
JB70517-3.1.1	Organics Prep	Raghava Marthi	07/03/14 16:48	Extract from JB70517-3.1
JB70517-3.1.1	Raghava Marthi	Extract Storage	07/03/14 16:48	Return to Storage
JB70517-3.1.1	Extract Storage	Ashley Dye	07/06/14 16:15	Retrieve from Storage
JB70517-3.1.1	Ashley Dye	GCMSF	07/06/14 16:15	Load on Instrument
JB70517-3.1.1	GCMSF	Kristi Schollenberger	07/09/14 13:23	Unload from Instrument
JB70517-3.1.1	Kristi Schollenberger	Extract Freezer	07/09/14 13:23	Return to Storage

Accutest Internal Chain of Custody

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Job Number: JB70517
Account: LANGAN Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY
Received: 06/27/14

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB70517-3.3	Secured Storage	Alfredo Crespo	06/30/14 13:00	Retrieve from Storage
JB70517-3.3	Alfredo Crespo	Secured Staging Area	06/30/14 13:00	Return to Storage
JB70517-3.3	Secured Staging Area	Michael Bunza	06/30/14 15:51	Retrieve from Storage
JB70517-3.3	Michael Bunza	Secured Storage	06/30/14 20:27	Return to Storage
JB70517-3.3	Secured Storage	Eric Barksdale	06/30/14 23:11	Retrieve from Storage
JB70517-3.3	Eric Barksdale	Secured Staging Area	06/30/14 23:12	Return to Storage
JB70517-3.3	Secured Staging Area	Michael Bunza	06/30/14 23:13	Retrieve from Storage
JB70517-3.3	Michael Bunza	Secured Storage	07/01/14 01:39	Return to Storage
JB70517-3.3	Secured Storage	Gage Donahue	07/03/14 09:51	Retrieve from Storage
JB70517-3.3	Gage Donahue	Secured Staging Area	07/03/14 09:51	Return to Storage
JB70517-3.3	Secured Staging Area	Masooda Sultani	07/03/14 10:06	Retrieve from Storage
JB70517-3.3	Masooda Sultani	Secured Storage	07/03/14 14:32	Return to Storage
JB70517-3.3	Secured Storage	Darshananben Patel	07/07/14 09:08	Retrieve from Storage
JB70517-3.3	Darshananben Patel	Secured Storage	07/08/14 08:12	Return to Storage
JB70517-3.3.1	Michael Bunza	Metals Digestion	06/30/14 20:25	Digestate from JB70517-3.3
JB70517-3.3.1	Metals Digestion	Michael Bunza	06/30/14 20:25	Digestate from JB70517-3.3
JB70517-3.3.1	Michael Bunza	Metals Digestate Storage	06/30/14 20:25	Return to Storage
JB70517-3.3.2	Michael Bunza	Metals Digestion	07/01/14 00:25	Digestate from JB70517-3.3
JB70517-3.3.2	Michael Bunza	Metals Digestate Storage	07/01/14 00:25	Return to Storage
JB70517-3.3.2	Metals Digestion	Michael Bunza	07/01/14 00:25	Digestate from JB70517-3.3
JB70517-3.5	Secured Storage	Payal Rana	07/03/14 15:05	Retrieve from Storage
JB70517-3.5	Payal Rana	GCMS4D	07/03/14 15:05	Load on Instrument
JB70517-3.5	GCMS4D	Payal Rana	07/05/14 12:13	Unload from Instrument
JB70517-3.5	Payal Rana	Secured Storage	07/05/14 12:13	Return to Storage
JB70517-4.1	Secured Storage	Brian Johnson	07/03/14 06:30	Retrieve from Storage
JB70517-4.1	Brian Johnson		07/03/14 11:14	Depleted
JB70517-4.1.1	Brian Johnson	Organics Prep	07/03/14 06:52	Extract from JB70517-4.1
JB70517-4.1.1	Organics Prep	Raghava Marthi	07/03/14 16:48	Extract from JB70517-4.1
JB70517-4.1.1	Raghava Marthi	Extract Storage	07/03/14 16:48	Return to Storage
JB70517-4.1.1	Extract Storage	Ashley Dye	07/06/14 16:15	Retrieve from Storage
JB70517-4.1.1	Ashley Dye	GCMSF	07/06/14 16:15	Load on Instrument
JB70517-4.1.1	GCMSF	Kristi Schollenberger	07/09/14 13:23	Unload from Instrument
JB70517-4.1.1	Kristi Schollenberger	Extract Freezer	07/09/14 13:23	Return to Storage
JB70517-4.3	Secured Storage	Alfredo Crespo	06/30/14 13:00	Retrieve from Storage
JB70517-4.3	Alfredo Crespo	Secured Staging Area	06/30/14 13:00	Return to Storage
JB70517-4.3	Secured Staging Area	Michael Bunza	06/30/14 15:51	Retrieve from Storage
JB70517-4.3	Michael Bunza	Secured Storage	06/30/14 20:27	Return to Storage

Accutest Internal Chain of Custody

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Job Number: JB70517
Account: LANGAN Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY
Received: 06/27/14

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB70517-4.3	Secured Storage	Eric Barksdale	06/30/14 23:11	Retrieve from Storage
JB70517-4.3	Eric Barksdale	Secured Staging Area	06/30/14 23:12	Return to Storage
JB70517-4.3	Secured Staging Area	Michael Bunza	06/30/14 23:13	Retrieve from Storage
JB70517-4.3	Michael Bunza	Secured Storage	07/01/14 01:39	Return to Storage
JB70517-4.3	Secured Storage	Gage Donahue	07/03/14 09:51	Retrieve from Storage
JB70517-4.3	Gage Donahue	Secured Staging Area	07/03/14 09:51	Return to Storage
JB70517-4.3	Secured Staging Area	Masooda Sultani	07/03/14 10:06	Retrieve from Storage
JB70517-4.3	Masooda Sultani	Secured Storage	07/03/14 14:32	Return to Storage
JB70517-4.3	Secured Storage	Darshanaben Patel	07/07/14 09:08	Retrieve from Storage
JB70517-4.3	Darshanaben Patel	Secured Storage	07/08/14 08:12	Return to Storage
JB70517-4.3.1	Michael Bunza	Metals Digestion	06/30/14 20:25	Digestate from JB70517-4.3
JB70517-4.3.1	Metals Digestion	Michael Bunza	06/30/14 20:25	Digestate from JB70517-4.3
JB70517-4.3.1	Michael Bunza	Metals Digestate Storage	06/30/14 20:25	Return to Storage
JB70517-4.3.2	Michael Bunza	Metals Digestion	07/01/14 00:25	Digestate from JB70517-4.3
JB70517-4.3.2	Metals Digestion	Michael Bunza	07/01/14 00:25	Digestate from JB70517-4.3
JB70517-4.3.2	Michael Bunza	Metals Digestate Storage	07/01/14 00:25	Return to Storage
JB70517-4.5	Secured Storage	Payal Rana	07/03/14 15:05	Retrieve from Storage
JB70517-4.5	Payal Rana	GCMS4D	07/03/14 15:05	Load on Instrument
JB70517-4.5	GCMS4D	Payal Rana	07/05/14 12:13	Unload from Instrument
JB70517-4.5	Payal Rana	Secured Storage	07/05/14 12:13	Return to Storage
JB70517-5.2	Secured Storage	Payal Rana	07/03/14 15:05	Retrieve from Storage
JB70517-5.2	Payal Rana	GCMS4D	07/03/14 15:05	Load on Instrument
JB70517-5.2	GCMS4D	Payal Rana	07/05/14 12:13	Unload from Instrument
JB70517-5.2	Payal Rana	Secured Storage	07/05/14 12:13	Return to Storage

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

Job Number: JB70517

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
VY6385-MB	Y146910.D	1	07/01/14	PS	n/a	n/a	VY6385

The QC reported here applies to the following samples:

Method: SW846 8260C

JB70517-1, JB70517-2

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	

Method Blank Summary

Page 2 of 2

Job Number: JB70517**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
VY6385-MB	Y146910.D	1	07/01/14	PS	n/a	n/a	VY6385

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

JB70517-1, JB70517-2

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	99%
17060-07-0	1,2-Dichloroethane-D4	59-130%
2037-26-5	Toluene-D8	91%
460-00-4	4-Bromofluorobenzene	104%
		77-125%
		95%
		71-132%

Method Blank Summary

Page 1 of 2

Job Number: JB70517**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
V4D2227-MB	4D49949.D	1	07/03/14	PR	n/a	n/a	V4D2227

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

JB70517-3, JB70517-4, JB70517-5

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	

6.1.2

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Method Blank Summary

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Job Number: JB70517**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
V4D2227-MB	4D49949.D	1	07/03/14	PR	n/a	n/a	V4D2227

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

JB70517-3, JB70517-4, JB70517-5

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	94%	79-120%
17060-07-0	1,2-Dichloroethane-D4	110%	72-123%
2037-26-5	Toluene-D8	95%	78-119%
460-00-4	4-Bromofluorobenzene	84%	74-119%

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

Blank Spike Summary

Page 1 of 2

Job Number: JB70517**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
VY6385-BS	Y146911.D	1	07/01/14	PS	n/a	n/a	VY6385

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

JB70517-1, JB70517-2

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	50	26.2	52	50-147
71-43-2	Benzene	50	51.1	102	75-122
74-97-5	Bromochloromethane	50	49.8	100	77-127
75-27-4	Bromodichloromethane	50	52.8	106	79-132
75-25-2	Bromoform	50	53.1	106	76-134
74-83-9	Bromomethane	50	47.2	94	56-151
78-93-3	2-Butanone (MEK)	50	42.0	84	68-137
75-15-0	Carbon disulfide	50	50.5	101	70-129
56-23-5	Carbon tetrachloride	50	53.1	106	71-148
108-90-7	Chlorobenzene	50	50.8	102	78-120
75-00-3	Chloroethane	50	60.3	121	64-145
67-66-3	Chloroform	50	49.5	99	75-124
74-87-3	Chloromethane	50	47.5	95	51-139
110-82-7	Cyclohexane	50	49.2	98	67-133
96-12-8	1,2-Dibromo-3-chloropropane	50	54.5	109	69-134
124-48-1	Dibromochloromethane	50	51.8	104	79-130
106-93-4	1,2-Dibromoethane	50	52.3	105	80-122
95-50-1	1,2-Dichlorobenzene	50	51.0	102	76-118
541-73-1	1,3-Dichlorobenzene	50	51.3	103	75-120
106-46-7	1,4-Dichlorobenzene	50	50.3	101	73-116
75-71-8	Dichlorodifluoromethane	50	42.7	85	34-161
75-34-3	1,1-Dichloroethane	50	51.8	104	78-128
107-06-2	1,2-Dichloroethane	50	54.5	109	75-139
75-35-4	1,1-Dichloroethene	50	52.6	105	73-128
156-59-2	cis-1,2-Dichloroethene	50	48.6	97	76-123
156-60-5	trans-1,2-Dichloroethene	50	51.4	103	74-123
78-87-5	1,2-Dichloropropane	50	52.8	106	78-125
10061-01-5	cis-1,3-Dichloropropene	50	49.8	100	75-115
10061-02-6	trans-1,3-Dichloropropene	50	49.9	100	80-125
100-41-4	Ethylbenzene	50	49.9	100	75-122
76-13-1	Freon 113	50	52.7	105	60-155
591-78-6	2-Hexanone	50	51.0	102	69-134
98-82-8	Isopropylbenzene	50	50.6	101	73-123
79-20-9	Methyl Acetate	50	49.3	99	59-133
108-87-2	Methylcyclohexane	50	46.0	92	63-142
1634-04-4	Methyl Tert Butyl Ether	100	97.3	97	75-122

* = Outside of Control Limits.

Blank Spike Summary

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Job Number: JB70517

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
VY6385-BS	Y146911.D	1	07/01/14	PS	n/a	n/a	VY6385

The QC reported here applies to the following samples:

Method: SW846 8260C

JB70517-1, JB70517-2

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
108-10-1	4-Methyl-2-pentanone(MIBK)	50	56.3	113	72-130
75-09-2	Methylene chloride	50	43.4	87	72-122
100-42-5	Styrene	50	52.7	105	79-123
79-34-5	1,1,2,2-Tetrachloroethane	50	51.0	102	70-117
127-18-4	Tetrachloroethene	50	50.9	102	70-136
108-88-3	Toluene	50	48.4	97	75-122
87-61-6	1,2,3-Trichlorobenzene	50	54.2	108	67-135
120-82-1	1,2,4-Trichlorobenzene	50	54.5	109	64-137
71-55-6	1,1,1-Trichloroethane	50	52.0	104	78-136
79-00-5	1,1,2-Trichloroethane	50	52.2	104	75-123
79-01-6	Trichloroethene	50	51.9	104	81-130
75-69-4	Trichlorofluoromethane	50	49.5	99	57-146
75-01-4	Vinyl chloride	50	49.0	98	55-133
	m,p-Xylene	100	99.7	100	75-122
95-47-6	o-Xylene	50	49.8	100	75-121
1330-20-7	Xylene (total)	150	149	99	75-122

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	98%	59-130%
17060-07-0	1,2-Dichloroethane-D4	91%	65-123%
2037-26-5	Toluene-D8	106%	77-125%
460-00-4	4-Bromofluorobenzene	98%	71-132%

* = Outside of Control Limits.

Blank Spike Summary**Job Number:** JB70517**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
V4D2227-BS	4D49950.D	1	07/03/14	PR	n/a	n/a	V4D2227

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

JB70517-3, JB70517-4, JB70517-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	54.3	109	52-152
71-43-2	Benzene	50	53.4	107	80-121
74-97-5	Bromochloromethane	50	54.0	108	82-125
75-27-4	Bromodichloromethane	50	59.3	119	83-127
75-25-2	Bromoform	50	52.3	105	74-131
74-83-9	Bromomethane	50	43.5	87	45-155
78-93-3	2-Butanone (MEK)	50	49.9	100	67-136
75-15-0	Carbon disulfide	50	53.8	108	69-129
56-23-5	Carbon tetrachloride	50	68.9	138	77-138
108-90-7	Chlorobenzene	50	51.9	104	82-119
75-00-3	Chloroethane	50	60.2	120	61-151
67-66-3	Chloroform	50	56.6	113	79-124
74-87-3	Chloromethane	50	45.9	92	48-148
110-82-7	Cyclohexane	50	53.6	107	72-129
96-12-8	1,2-Dibromo-3-chloropropane	50	50.9	102	66-137
124-48-1	Dibromochloromethane	50	53.9	108	81-127
106-93-4	1,2-Dibromoethane	50	49.7	99	79-122
95-50-1	1,2-Dichlorobenzene	50	50.1	100	81-121
541-73-1	1,3-Dichlorobenzene	50	49.7	99	81-119
106-46-7	1,4-Dichlorobenzene	50	50.2	100	80-116
75-71-8	Dichlorodifluoromethane	50	43.4	87	33-161
75-34-3	1,1-Dichloroethane	50	58.4	117	78-129
107-06-2	1,2-Dichloroethane	50	66.9	134* a	75-133
75-35-4	1,1-Dichloroethene	50	50.9	102	74-128
156-59-2	cis-1,2-Dichloroethene	50	49.3	99	78-123
156-60-5	trans-1,2-Dichloroethene	50	47.8	96	75-122
78-87-5	1,2-Dichloropropane	50	55.5	111	80-124
10061-01-5	cis-1,3-Dichloropropene	50	56.6	113	75-114
10061-02-6	trans-1,3-Dichloropropene	50	56.2	112	78-123
100-41-4	Ethylbenzene	50	53.2	106	82-120
76-13-1	Freon 113	50	56.0	112	65-150
591-78-6	2-Hexanone	50	47.5	95	65-135
98-82-8	Isopropylbenzene	50	51.4	103	80-124
79-20-9	Methyl Acetate	50	41.9	84	53-137
108-87-2	Methylcyclohexane	50	52.1	104	62-142
1634-04-4	Methyl Tert Butyl Ether	100	107	107	74-123

* = Outside of Control Limits.

Blank Spike Summary

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Job Number: JB70517

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
V4D2227-BS	4D49950.D	1	07/03/14	PR	n/a	n/a	V4D2227

The QC reported here applies to the following samples:

Method: SW846 8260C

JB70517-3, JB70517-4, JB70517-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
108-10-1	4-Methyl-2-pentanone(MIBK)	50	48.3	97	68-135
75-09-2	Methylene chloride	50	49.5	99	75-121
100-42-5	Styrene	50	51.6	103	81-123
79-34-5	1,1,2,2-Tetrachloroethane	50	45.1	90	71-123
127-18-4	Tetrachloroethene	50	53.1	106	69-141
108-88-3	Toluene	50	53.2	106	80-122
87-61-6	1,2,3-Trichlorobenzene	50	49.6	99	71-138
120-82-1	1,2,4-Trichlorobenzene	50	52.1	104	77-132
71-55-6	1,1,1-Trichloroethane	50	62.5	125	80-132
79-00-5	1,1,2-Trichloroethane	50	51.6	103	80-127
79-01-6	Trichloroethene	50	52.9	106	82-126
75-69-4	Trichlorofluoromethane	50	64.2	128	63-141
75-01-4	Vinyl chloride	50	48.7	97	53-135
	m,p-Xylene	100	106	106	81-121
95-47-6	o-Xylene	50	52.1	104	82-121
1330-20-7	Xylene (total)	150	158	105	82-121

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	95%	79-120%
17060-07-0	1,2-Dichloroethane-D4	111%	72-123%
2037-26-5	Toluene-D8	97%	78-119%
460-00-4	4-Bromofluorobenzene	84%	74-119%

(a) High percent recoveries and no associated positive found in the QC batch.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 2

Job Number: JB70517

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
JB70517-1MS	Y146915.D	1	07/01/14	PS	n/a	n/a	VY6385
JB70517-1MSD	Y146916.D	1	07/01/14	PS	n/a	n/a	VY6385
JB70517-1	Y146913.D	1	07/01/14	PS	n/a	n/a	VY6385

The QC reported here applies to the following samples:

Method: SW846 8260C

JB70517-1, JB70517-2

CAS No.	Compound	JB70517-1 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	33.6		75.1	79	76.6	88.0	71	6	10-181/30
71-43-2	Benzene	ND		75.1	92	76.6	69.0	90	0	45-131/22
74-97-5	Bromochloromethane	ND		75.1	92	76.6	69.0	90	0	50-131/21
75-27-4	Bromodichloromethane	ND		75.1	94	76.6	69.5	91	2	44-138/22
75-25-2	Bromoform	ND		75.1	88	76.6	64.0	84	3	34-140/24
74-83-9	Bromomethane	ND		75.1	79	76.6	63.5	83	7	18-152/31
78-93-3	2-Butanone (MEK)	ND		75.1	119	76.6	81.9	107	9	25-156/27
75-15-0	Carbon disulfide	1.2	J	75.1	79	76.6	61.8	79	2	28-139/25
56-23-5	Carbon tetrachloride	ND		75.1	86	76.6	65.1	85	1	33-153/25
108-90-7	Chlorobenzene	ND		75.1	88	76.6	64.4	84	2	34-138/24
75-00-3	Chloroethane	ND		75.1	84	76.6	69.1	90	10	26-142/27
67-66-3	Chloroform	ND		75.1	93	76.6	69.4	91	0	51-129/21
74-87-3	Chloromethane	ND		75.1	79	76.6	65.0	85	9	34-134/24
110-82-7	Cyclohexane	ND		75.1	84	76.6	62.4	82	1	13-150/28
96-12-8	1,2-Dibromo-3-chloropropane	ND		75.1	84	76.6	60.2	79	4	22-145/29
124-48-1	Dibromochloromethane	ND		75.1	93	76.6	67.5	88	3	41-137/22
106-93-4	1,2-Dibromoethane	ND		75.1	91	76.6	65.3	85	4	41-133/22
95-50-1	1,2-Dichlorobenzene	ND		75.1	80	76.6	59.0	77	2	22-140/27
541-73-1	1,3-Dichlorobenzene	ND		75.1	81	76.6	59.7	78	1	21-141/27
106-46-7	1,4-Dichlorobenzene	ND		75.1	79	76.6	57.9	76	2	20-140/27
75-71-8	Dichlorodifluoromethane	ND		75.1	81	76.6	66.4	87	9	10-156/30
75-34-3	1,1-Dichloroethane	ND		75.1	95	76.6	71.8	94	0	50-130/22
107-06-2	1,2-Dichloroethane	ND		75.1	98	76.6	73.4	96	0	49-136/21
75-35-4	1,1-Dichloroethene	ND		75.1	93	76.6	70.0	91	0	32-143/23
156-59-2	cis-1,2-Dichloroethene	ND		75.1	90	76.6	66.7	87	1	46-129/22
156-60-5	trans-1,2-Dichloroethene	ND		75.1	90	76.6	67.4	88	0	41-131/22
78-87-5	1,2-Dichloropropane	ND		75.1	95	76.6	70.9	93	1	46-131/21
10061-01-5	cis-1,3-Dichloropropene	ND		75.1	89	76.6	64.9	85	3	40-134/23
10061-02-6	trans-1,3-Dichloropropene	ND		75.1	89	76.6	63.2	83	5	37-137/23
100-41-4	Ethylbenzene	ND		75.1	85	76.6	63.5	83	1	30-139/26
76-13-1	Freon 113	ND		75.1	94	76.6	76.8	100	9	16-157/27
591-78-6	2-Hexanone	ND		75.1	110	76.6	77.2	101	7	19-155/29
98-82-8	Isopropylbenzene	ND		75.1	83	76.6	60.2	79	3	26-141/26
79-20-9	Methyl Acetate	ND		75.1	101	76.6	77.8	102	2	17-179/29
108-87-2	Methylcyclohexane	ND		75.1	76	76.6	61.7	81	7	10-150/30
1634-04-4	Methyl Tert Butyl Ether	ND		75.1	92	76.6	68.1	89	1	45-130/21

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Page 2 of 2

Job Number: JB70517

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
JB70517-1MS	Y146915.D	1	07/01/14	PS	n/a	n/a	VY6385
JB70517-1MSD	Y146916.D	1	07/01/14	PS	n/a	n/a	VY6385
JB70517-1	Y146913.D	1	07/01/14	PS	n/a	n/a	VY6385

The QC reported here applies to the following samples:

Method: SW846 8260C

JB70517-1, JB70517-2

CAS No.	Compound	JB70517-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		75.1	70.3	94	76.6	66.6	87	5	31-140/25
75-09-2	Methylene chloride	ND		75.1	61.7	82	76.6	62.0	81	0	44-127/21
100-42-5	Styrene	ND		75.1	65.5	87	76.6	65.0	85	1	30-143/26
79-34-5	1,1,2,2-Tetrachloroethane	ND		75.1	66.2	88	76.6	62.1	81	6	30-131/27
127-18-4	Tetrachloroethene	ND		75.1	74.1	99	76.6	73.2	96	1	15-183/26
108-88-3	Toluene	ND		75.1	64.2	85	76.6	63.0	82	2	38-135/23
87-61-6	1,2,3-Trichlorobenzene	ND		75.1	50.0	67	76.6	46.3	60	8	10-159/33
120-82-1	1,2,4-Trichlorobenzene	ND		75.1	52.2	69	76.6	48.9	64	7	10-161/33
71-55-6	1,1,1-Trichloroethane	ND		75.1	68.3	91	76.6	69.2	90	1	43-142/23
79-00-5	1,1,2-Trichloroethane	ND		75.1	69.2	92	76.6	66.5	87	4	37-135/25
79-01-6	Trichloroethene	ND		75.1	69.2	92	76.6	68.7	90	1	29-161/23
75-69-4	Trichlorofluoromethane	ND		75.1	60.6	81	76.6	67.8	89	11	14-160/29
75-01-4	Vinyl chloride	ND		75.1	59.0	79	76.6	66.3	87	12	31-140/24
	m,p-Xylene	ND		150	127	85	153	126	82	1	29-140/26
95-47-6	o-Xylene	ND		75.1	65.3	87	76.6	65.0	85	0	31-140/24
1330-20-7	Xylene (total)	ND		225	192	85	230	191	83	1	30-140/25

CAS No.	Surrogate Recoveries	MS	MSD	JB70517-1	Limits
1868-53-7	Dibromofluoromethane	100%	101%	100%	59-130%
17060-07-0	1,2-Dichloroethane-D4	90%	91%	95%	65-123%
2037-26-5	Toluene-D8	106%	105%	106%	77-125%
460-00-4	4-Bromofluorobenzene	97%	97%	99%	71-132%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

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Job Number: JB70517

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
JB70356-1MS	4D49957.D	1	07/03/14	PR	n/a	n/a	V4D2227
JB70356-1MSD	4D49958.D	1	07/03/14	PR	n/a	n/a	V4D2227
JB70356-1	4D49955.D	1	07/03/14	PR	n/a	n/a	V4D2227

The QC reported here applies to the following samples:

Method: SW846 8260C

JB70517-3, JB70517-4, JB70517-5

CAS No.	Compound	JB70356-1 ug/l	Spike Q ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND	50	63.0	107	50	60.8	102	4	44-160/20
71-43-2	Benzene	ND	50	51.5	103	50	48.6	97	6	50-136/12
74-97-5	Bromochloromethane	ND	50	54.4	109	50	51.7	103	5	74-131/11
75-27-4	Bromodichloromethane	ND	50	60.8	122	50	56.9	114	7	74-132/11
75-25-2	Bromoform	ND	50	53.7	107	50	50.7	101	6	68-136/12
74-83-9	Bromomethane	ND	50	49.8	100	50	47.8	96	4	37-157/21
78-93-3	2-Butanone (MEK)	ND	50	49.6	99	50	46.8	94	6	60-145/15
75-15-0	Carbon disulfide	ND	50	51.2	102	50	46.9	94	9	37-143/17
56-23-5	Carbon tetrachloride	ND	50	66.9	134	50	61.7	123	8	46-152/17
108-90-7	Chlorobenzene	ND	50	53.2	106	50	49.8	100	7	70-127/12
75-00-3	Chloroethane	ND	50	55.7	111	50	51.6	103	8	44-147/16
67-66-3	Chloroform	ND	50	57.8	116	50	53.7	107	7	67-129/12
74-87-3	Chloromethane	ND	50	55.9	112	50	53.1	106	5	40-149/19
110-82-7	Cyclohexane	ND	50	51.3	103	50	48.9	98	5	31-153/21
96-12-8	1,2-Dibromo-3-chloropropane	ND	50	51.3	103	50	49.9	100	3	61-144/14
124-48-1	Dibromochloromethane	ND	50	57.0	114	50	53.6	107	6	74-131/10
106-93-4	1,2-Dibromoethane	ND	50	51.9	104	50	49.1	98	6	74-129/10
95-50-1	1,2-Dichlorobenzene	ND	50	50.5	101	50	48.6	97	4	73-126/11
541-73-1	1,3-Dichlorobenzene	ND	50	50.8	102	50	48.8	98	4	71-124/12
106-46-7	1,4-Dichlorobenzene	ND	50	51.0	102	50	48.8	98	4	71-123/12
75-71-8	Dichlorodifluoromethane	ND	50	63.3	127	50	60.3	121	5	20-161/25
75-34-3	1,1-Dichloroethane	ND	50	57.2	114	50	53.5	107	7	61-134/12
107-06-2	1,2-Dichloroethane	ND	50	68.4	137	50	63.1	126	8	68-137/11
75-35-4	1,1-Dichloroethene	ND	50	48.8	98	50	44.8	90	9	40-143/17
156-59-2	cis-1,2-Dichloroethene	ND	50	49.8	100	50	46.7	93	6	59-133/12
156-60-5	trans-1,2-Dichloroethene	ND	50	47.6	95	50	44.6	89	7	55-132/14
78-87-5	1,2-Dichloropropane	ND	50	55.1	110	50	52.4	105	5	70-128/11
10061-01-5	cis-1,3-Dichloropropene	ND	50	58.9	118	50	55.8	112	5	73-127/11
10061-02-6	trans-1,3-Dichloropropene	ND	50	60.6	121	50	57.6	115	5	72-128/11
100-41-4	Ethylbenzene	ND	50	54.5	109	50	50.9	102	7	49-137/13
76-13-1	Freon 113	ND	50	59.4	119	50	55.0	110	8	32-161/23
591-78-6	2-Hexanone	ND	50	53.1	106	50	48.5	97	9	59-145/14
98-82-8	Isopropylbenzene	0.36	50	51.8	103	50	49.2	98	5	57-136/14
79-20-9	Methyl Acetate	ND	50	46.2	92	50	45.2	90	2	46-148/15
108-87-2	Methylcyclohexane	ND	50	54.7	109	50	51.7	103	6	30-155/21
1634-04-4	Methyl Tert Butyl Ether	18.2	50	75.9	115	50	72.7	109	4	64-134/11

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Page 2 of 2

Job Number: JB70517

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
JB70356-1MS	4D49957.D	1	07/03/14	PR	n/a	n/a	V4D2227
JB70356-1MSD	4D49958.D	1	07/03/14	PR	n/a	n/a	V4D2227
JB70356-1	4D49955.D	1	07/03/14	PR	n/a	n/a	V4D2227

The QC reported here applies to the following samples:

Method: SW846 8260C

JB70517-3, JB70517-4, JB70517-5

CAS No.	Compound	JB70356-1 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	50	49.6	99	50	47.4	95	5	63-144/13
75-09-2	Methylene chloride	ND	50	49.6	99	50	46.7	93	6	64-128/11
100-42-5	Styrene	ND	50	52.7	105	50	49.8	100	6	67-130/12
79-34-5	1,1,2,2-Tetrachloroethane	ND	50	46.6	93	50	46.0	92	1	68-131/11
127-18-4	Tetrachloroethene	ND	50	53.4	107	50	49.6	99	7	48-143/15
108-88-3	Toluene	ND	50	53.6	107	50	50.8	102	5	54-137/13
87-61-6	1,2,3-Trichlorobenzene	ND	50	50.4	101	50	48.6	97	4	62-143/13
120-82-1	1,2,4-Trichlorobenzene	ND	50	52.4	105	50	50.1	100	4	66-138/12
71-55-6	1,1,1-Trichloroethane	ND	50	61.2	122	50	57.3	115	7	52-145/16
79-00-5	1,1,2-Trichloroethane	ND	50	52.5	105	50	50.8	102	3	73-130/10
79-01-6	Trichloroethene	ND	50	53.3	107	50	49.9	100	7	54-141/13
75-69-4	Trichlorofluoromethane	ND	50	70.3	141	50	66.6	133	5	33-159/25
75-01-4	Vinyl chloride	ND	50	58.1	116	50	54.5	109	6	36-149/19
	m,p-Xylene	ND	100	107	107	100	99.7	100	7	50-137/12
95-47-6	o-Xylene	ND	50	54.0	108	50	50.3	101	7	60-134/12
1330-20-7	Xylene (total)	ND	150	161	107	150	150	100	7	53-136/12

CAS No.	Surrogate Recoveries	MS	MSD	JB70356-1	Limits
1868-53-7	Dibromofluoromethane	95%	95%	94%	79-120%
17060-07-0	1,2-Dichloroethane-D4	112%	111%	114%	72-123%
2037-26-5	Toluene-D8	96%	96%	95%	78-119%
460-00-4	4-Bromofluorobenzene	82%	82%	84%	74-119%

* = Outside of Control Limits.

Instrument Performance Check (BFB)**Job Number:** JB70517**Account:** LANGAN Langan Engineering & Environmental**Project:** Carroll Gardens, 363-365 Bond Street, Brooklyn, NY**Sample:** V4D2197-BFB**Injection Date:** 06/13/14**Lab File ID:** 4D49228.D**Injection Time:** 12:57**Instrument ID:** GCMS4D

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	19752	16.5	Pass
75	30.0 - 60.0% of mass 95	51789	43.3	Pass
95	Base peak, 100% relative abundance	119491	100.0	Pass
96	5.0 - 9.0% of mass 95	7724	6.46	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 120.0% of mass 95	102117	85.5	Pass
175	5.0 - 9.0% of mass 174	7938	6.64 (7.77) ^a	Pass
176	95.0 - 101.0% of mass 174	99035	82.9 (97.0) ^a	Pass
177	5.0 - 9.0% of mass 176	6498	5.44 (6.56) ^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
V4D2197-IC2197	4D49229.D	06/13/14	13:33	00:36	Initial cal 0.2
V4D2197-IC2197	4D49230.D	06/13/14	14:00	01:03	Initial cal 0.5
V4D2197-IC2197	4D49231.D	06/13/14	14:28	01:31	Initial cal 1
V4D2197-IC2197	4D49232.D	06/13/14	14:55	01:58	Initial cal 2
V4D2197-IC2197	4D49233.D	06/13/14	15:22	02:25	Initial cal 5
V4D2197-IC2197	4D49234.D	06/13/14	15:50	02:53	Initial cal 10
V4D2197-IC2197	4D49235.D	06/13/14	16:17	03:20	Initial cal 20
V4D2197-ICC2197	4D49236.D	06/13/14	16:44	03:47	Initial cal 50
V4D2197-IC2197	4D49237.D	06/13/14	17:12	04:15	Initial cal 100
V4D2197-IC2197	4D49238.D	06/13/14	17:39	04:42	Initial cal 200
V4D2197-ICV2197	4D49241.D	06/13/14	19:01	06:04	Initial cal verification 50

Instrument Performance Check (BFB)**Job Number:** JB70517**Account:** LANGAN Langan Engineering & Environmental**Project:** Carroll Gardens, 363-365 Bond Street, Brooklyn, NY**Sample:** V4D2227-BFB**Injection Date:** 07/03/14**Lab File ID:** 4D49946.D**Injection Time:** 09:43**Instrument ID:** GCMS4D

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	16632	19.0	Pass
75	30.0 - 60.0% of mass 95	42069	48.1	Pass
95	Base peak, 100% relative abundance	87488	100.0	Pass
96	5.0 - 9.0% of mass 95	5802	6.63	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 120.0% of mass 95	71939	82.2	Pass
175	5.0 - 9.0% of mass 174	5728	6.55 (7.96) ^a	Pass
176	95.0 - 101.0% of mass 174	70269	80.3 (97.7) ^a	Pass
177	5.0 - 9.0% of mass 176	4568	5.22 (6.50) ^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
V4D2227-CC2197	4D49947.D	07/03/14	10:21	00:38	Continuing cal 20
V4D2227-MB	4D49949.D	07/03/14	11:16	01:33	Method Blank
V4D2227-BS	4D49950.D	07/03/14	11:55	02:12	Blank Spike
ZZZZZZ	4D49952.D	07/03/14	12:50	03:07	(unrelated sample)
ZZZZZZ	4D49954.D	07/03/14	13:56	04:13	(unrelated sample)
JB70356-1	4D49955.D	07/03/14	14:24	04:41	(used for QC only; not part of job JB70517)
ZZZZZZ	4D49956.D	07/03/14	14:52	05:09	(unrelated sample)
JB70356-1MS	4D49957.D	07/03/14	15:20	05:37	Matrix Spike
JB70356-1MSD	4D49958.D	07/03/14	15:48	06:05	Matrix Spike Duplicate
ZZZZZZ	4D49960.D	07/03/14	16:43	07:00	(unrelated sample)
JB70517-3	4D49961.D	07/03/14	17:11	07:28	416-FB-20
JB70517-4	4D49962.D	07/03/14	17:39	07:56	417-FB-21
JB70517-5	4D49963.D	07/03/14	18:06	08:23	418-TB-18
ZZZZZZ	4D49964.D	07/03/14	18:34	08:51	(unrelated sample)
ZZZZZZ	4D49966.D	07/03/14	19:29	09:46	(unrelated sample)
ZZZZZZ	4D49967.D	07/03/14	19:56	10:13	(unrelated sample)
ZZZZZZ	4D49968.D	07/03/14	20:24	10:41	(unrelated sample)

Instrument Performance Check (BFB)

Page 1 of 1

Job Number: JB70517**Account:** LANGAN Langan Engineering & Environmental**Project:** Carroll Gardens, 363-365 Bond Street, Brooklyn, NY**Sample:** VY6377-BFB**Injection Date:** 06/24/14**Lab File ID:** Y146732.D**Injection Time:** 10:07**Instrument ID:** GCMSY

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	7405	16.3	Pass
75	30.0 - 60.0% of mass 95	19448	42.8	Pass
95	Base peak, 100% relative abundance	45440	100.0	Pass
96	5.0 - 9.0% of mass 95	3021	6.65	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 120.0% of mass 95	43845	96.5	Pass
175	5.0 - 9.0% of mass 174	3358	7.39 (7.66) ^a	Pass
176	95.0 - 101.0% of mass 174	42872	94.3 (97.8) ^a	Pass
177	5.0 - 9.0% of mass 176	2860	6.29 (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
VY6377-IC6377	Y146733.D	06/24/14	11:30	01:23	Initial cal 0.2
VY6377-IC6377	Y146734.D	06/24/14	11:58	01:51	Initial cal 0.5
VY6377-IC6377	Y146735.D	06/24/14	12:27	02:20	Initial cal 1
VY6377-IC6377	Y146736.D	06/24/14	12:56	02:49	Initial cal 2
VY6377-IC6377	Y146737.D	06/24/14	13:25	03:18	Initial cal 5
VY6377-IC6377	Y146738.D	06/24/14	13:54	03:47	Initial cal 10
VY6377-IC6377	Y146739.D	06/24/14	14:22	04:15	Initial cal 20
VY6377-ICC6377	Y146740.D	06/24/14	14:50	04:43	Initial cal 50
VY6377-IC6377	Y146741.D	06/24/14	15:20	05:13	Initial cal 100
VY6377-IC6377	Y146742.D	06/24/14	15:48	05:41	Initial cal 200

Instrument Performance Check (BFB)

Page 1 of 1

Job Number: JB70517**Account:** LANGAN Langan Engineering & Environmental**Project:** Carroll Gardens, 363-365 Bond Street, Brooklyn, NY**Sample:** VY6377-BFB2**Injection Date:** 06/25/14**Lab File ID:** Y146747.D**Injection Time:** 09:32**Instrument ID:** GCMSY

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	9478	16.3	Pass
75	30.0 - 60.0% of mass 95	25410	43.6	Pass
95	Base peak, 100% relative abundance	58253	100.0	Pass
96	5.0 - 9.0% of mass 95	3921	6.73	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 120.0% of mass 95	55309	94.9	Pass
175	5.0 - 9.0% of mass 174	4235	7.27 (7.66) ^a	Pass
176	95.0 - 101.0% of mass 174	54496	93.6 (98.5) ^a	Pass
177	5.0 - 9.0% of mass 176	3483	5.98 (6.39) ^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
VY6377-ICV6377	Y146748.D	06/25/14	10:14	00:42	Initial cal verification 50

Instrument Performance Check (BFB)

Job Number: JB70517

Account: LANGAN Langan Engineering & Environmental

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

Sample: VY6385-BFB

Injection Date: 07/01/14

Lab File ID: Y146907.D

Injection Time: 15:09

Instrument ID: GCMSY

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	7791	16.8	Pass
75	30.0 - 60.0% of mass 95	20162	43.4	Pass
95	Base peak, 100% relative abundance	46477	100.0	Pass
96	5.0 - 9.0% of mass 95	3115	6.70	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 120.0% of mass 95	44530	95.8	Pass
175	5.0 - 9.0% of mass 174	3460	7.44 (7.77) ^a	Pass
176	95.0 - 101.0% of mass 174	43237	93.0 (97.1) ^a	Pass
177	5.0 - 9.0% of mass 176	2844	6.12 (6.58) ^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
VY6385-CC6377	Y146908.D	07/01/14	15:50	00:41	Continuing cal 20
VY6385-MB	Y146910.D	07/01/14	16:55	01:46	Method Blank
VY6385-BS	Y146911.D	07/01/14	17:36	02:27	Blank Spike
JB70517-1	Y146913.D	07/01/14	18:45	03:36	414-PE-30
JB70517-2	Y146914.D	07/01/14	19:14	04:05	415-PE-13
JB70517-1MS	Y146915.D	07/01/14	19:43	04:34	Matrix Spike
JB70517-1MSD	Y146916.D	07/01/14	20:12	05:03	Matrix Spike Duplicate
ZZZZZZ	Y146918.D	07/01/14	21:09	06:00	(unrelated sample)
ZZZZZZ	Y146919.D	07/01/14	21:38	06:29	(unrelated sample)
ZZZZZZ	Y146920.D	07/01/14	22:07	06:58	(unrelated sample)
ZZZZZZ	Y146921.D	07/01/14	22:36	07:27	(unrelated sample)
ZZZZZZ	Y146922.D	07/01/14	23:04	07:55	(unrelated sample)
ZZZZZZ	Y146923.D	07/01/14	23:33	08:24	(unrelated sample)
ZZZZZZ	Y146924.D	07/02/14	00:02	08:53	(unrelated sample)
ZZZZZZ	Y146925.D	07/02/14	00:31	09:22	(unrelated sample)
ZZZZZZ	Y146926.D	07/02/14	00:59	09:50	(unrelated sample)

Volatile Internal Standard Area Summary

Page 1 of 1

Job Number: JB70517

Account: LANGAN Langan Engineering & Environmental

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

Check Std: V4D2227-CC2197

Injection Date: 07/03/14

Lab File ID: 4D49947.D

Injection Time: 10:21

Instrument ID: GCMS4D

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	92486	7.00	199749	9.59	256273	10.54	235897	13.91	127179	16.34
Upper Limit ^a	184972	7.50	399498	10.09	512546	11.04	471794	14.41	254358	16.84
Lower Limit ^b	46243	6.50	99875	9.09	128137	10.04	117949	13.41	63590	15.84

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
V4D2227-MB	81138	6.99	196572	9.58	249934	10.54	231717	13.91	121507	16.34
V4D2227-BS	81643	7.00	169544	9.59	213572	10.54	200162	13.91	107792	16.34
ZZZZZZ	97080	6.99	189957	9.58	237401	10.54	223245	13.91	118280	16.34
ZZZZZZ	75999	7.00	172553	9.59	217515	10.54	203380	13.91	107695	16.34
JB70356-1	82051	6.99	188098	9.58	242257	10.54	220468	13.91	117430	16.34
ZZZZZZ	78547	7.00	184333	9.58	235170	10.54	213738	13.91	114178	16.34
JB70356-1MS	72914	6.99	160637	9.58	203714	10.54	189374	13.91	103707	16.34
JB70356-1MSD	81367	7.00	173124	9.58	219822	10.54	207026	13.91	110327	16.34
ZZZZZZ	86820	6.99	184592	9.58	236370	10.54	217187	13.91	111459	16.34
JB70517-3	82160	6.99	184879	9.58	234030	10.54	216994	13.91	114377	16.34
JB70517-4	84045	6.99	191044	9.58	243614	10.54	226827	13.91	121189	16.34
JB70517-5	80779	6.99	184341	9.58	231920	10.54	216467	13.91	114596	16.34
ZZZZZZ	79955	7.00	184439	9.58	233647	10.54	218255	13.91	116434	16.34
ZZZZZZ	66921	6.99	159588	9.58	202616	10.54	186987	13.91	99872	16.34
ZZZZZZ	72166	6.99	173307	9.58	220885	10.54	205701	13.91	110863	16.34
ZZZZZZ	77189	6.99	187495	9.58	238713	10.54	220633	13.91	117952	16.34

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: JB70517

Account: LANGAN Langan Engineering & Environmental

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

Check Std: VY6385-CC6377

Injection Date: 07/01/14

Lab File ID: Y146908.D

Injection Time: 15:50

Instrument ID: GCMSY

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	66302	7.35	172995	9.52	207285	10.44	174852	13.56	89628	15.84
Upper Limit ^a	132604	7.85	345990	10.02	414570	10.94	349704	14.06	179256	16.34
Lower Limit ^b	33151	6.85	86498	9.02	103643	9.94	87426	13.06	44814	15.34

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
VY6385-MB	58284	7.35	166263	9.53	199067	10.44	167652	13.56	84068	15.85
VY6385-BS	68012	7.36	176187	9.52	209510	10.44	179752	13.56	90768	15.84
JB70517-1	61834	7.36	165616	9.53	197888	10.44	169610	13.56	82733	15.85
JB70517-2	71596	7.36	173425	9.53	207938	10.44	174308	13.56	82761	15.85
JB70517-1MS	58786	7.36	177132	9.53	213387	10.44	179552	13.56	90592	15.85
JB70517-1MSD	52098	7.36	173330	9.53	208290	10.44	174000	13.56	90682	15.84
ZZZZZZ	63573	7.35	168726	9.53	201031	10.44	172078	13.56	87631	15.85
ZZZZZZ	60003	7.36	171285	9.52	201932	10.44	172332	13.56	88581	15.85
ZZZZZZ	57332	7.36	171409	9.52	204272	10.44	175251	13.56	90058	15.85
ZZZZZZ	53422	7.36	159094	9.52	187685	10.44	162118	13.56	81360	15.85
ZZZZZZ	56227	7.36	166223	9.53	202623	10.44	174821	13.56	88016	15.85
ZZZZZZ	48594	7.36	150159	9.53	180358	10.44	153958	13.56	77653	15.85
ZZZZZZ	56733	7.36	180594	9.53	213991	10.44	181200	13.56	90642	15.85
ZZZZZZ	67100	7.36	171903	9.53	207360	10.44	176644	13.56	87388	15.85
ZZZZZZ	68818	7.36	160714	9.53	196055	10.44	168815	13.56	81596	15.85

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 Surrogate Recovery Summary

Job Number: JB70517
Account: LANGAN Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Method: SW846 8260C	Matrix: AQ
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Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
JB70517-3	4D49961.D	95	113	96	84
JB70517-4	4D49962.D	95	115	96	83
JB70517-5	4D49963.D	94	113	96	84
JB70356-1MS	4D49957.D	95	112	96	82
JB70356-1MSD	4D49958.D	95	111	96	82
V4D2227-BS	4D49950.D	95	111	97	84
V4D2227-MB	4D49949.D	94	110	95	84

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%

Volatile Surrogate Recovery Summary

Job Number: JB70517
Account: LANGAN Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Method: SW846 8260C	Matrix: SO
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Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
JB70517-1	Y146913.D	100	95	106	99
JB70517-2	Y146914.D	102	98	105	101
JB70517-1MS	Y146915.D	100	90	106	97
JB70517-1MSD	Y146916.D	101	91	105	97
VY6385-BS	Y146911.D	98	91	106	98
VY6385-MB	Y146910.D	99	91	104	95

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%

Initial Calibration Summary

Page 1 of 5

Job Number: JB70517
Account: LANGAN Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY
Sample: V4D2197-ICC2197
Lab FileID: 4D49236.D

Response Factor Report MS4D

Method : C:\msdchem\1\methods\M4D2197.M (RTE Integrator)
 Title : SW-846 Method 8260B/8260C
 Last Update : Fri Jun 13 18:12:09 2014
 Response via : Initial Calibration

Calibration Files

10	=4d49234.D	0.5	=4d49230.D	5	=4d49233.D	50	=4d49236.D
100	=4d49237.D	1	=4d49231.D	200	=4d49238.D	20	=4d49235.D
2	=4d49232.D	0.2	=4d49229.D	=		=	

Compound	10	0.5	5	50	100	1	200	20	2	0.2	Avg	%RSD

1) I Tert Butyl Alcohol-d9	-----ISTD-----											
2) 1,4-dioxane	0.130			0.126	0.130		0.109	0.118	0.116		0.121	6.90
3) tertiary butyl alcohol	1.641		1.437	1.515	1.611	1.343	1.351	1.414	1.605		1.489	8.06
4) I pentafluorobenzene	-----ISTD-----											
5) chlorodifluoromethane	0.649	0.485	0.612	0.583	0.653	0.512	0.594	0.561	0.638		0.588	10.12
6) dichlorodifluoromethane	0.857	0.802	0.851	0.768	0.832	0.899	0.771	0.761	0.795		0.815	5.81
7) chloromethane	0.927	1.018	0.928	0.887	0.945	0.955	0.866	0.856	0.837		0.913	6.28
8) vinyl chloride	0.911	0.767	0.877	0.868	0.933	0.837	0.879	0.818	0.756	0.859	0.850	6.74
9) acetaldehyde											0.000	-1.00
10) bromomethane	0.614	0.674	0.614	0.576	0.593	0.642	0.495	0.563	0.554	0.806	0.613	13.68
11) chloroethane	0.384	0.332	0.384	0.357	0.370	0.368	0.323	0.355	0.341		0.357	6.12
12) trichlorofluoromethane	0.967	0.766	0.942	0.915	0.979	0.891	0.916	0.880	0.769		0.892	8.70
13) vinyl bromide											0.000	-1.00
14) ethyl ether	0.300	0.198	0.278	0.292	0.305	0.234	0.284	0.284	0.249		0.269	13.17
15) pentane											0.000	-1.00
16) 2-chloropropane	0.964		0.903	0.872	0.938	0.991	0.845	0.838	0.883		0.904	6.16
17) acrolein	0.154		0.146	0.141		0.153		0.142	0.139		0.146	4.23
18) 1,1-dichloroethene	0.560	0.603	0.528	0.501	0.535	0.537	0.487	0.486	0.512		0.528	7.10
19) acetone	0.191		0.218	0.199	0.195		0.201	0.176			0.197	6.88
20) allyl chloride	0.291		0.279	0.255	0.274	0.263	0.249	0.252	0.236		0.262	6.89
21) acetonitrile	0.037		0.032	0.036	0.040		0.034	0.034	0.031		0.035	8.51
22) iodomethane	1.097	0.912	1.029	1.026	1.096	0.893	0.989	1.004	0.930		0.997	7.47
23) iso-butyl alcohol												

6.7.1
6

Initial Calibration Summary

Page 2 of 5

Job Number: JB70517

Sample: V4D2197-ICC2197

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 4D49236.D

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

	0.027	0.025	0.025	0.027	0.025	0.025	0.023	0.026		0.025	5.26	
24)	carbon disulfide											
	2.096	1.803	1.950	1.919	2.031	1.797	1.858	1.857	1.785	2.192	1.929	7.18
25)	methylene chloride											
	0.670	0.654	0.601	0.638	0.752	0.569	0.600	0.659			0.643	8.73
26)	1-chloropropane											
	0.968	0.942	0.869	0.921	1.000	0.858	0.878	0.901			0.917	5.49
27)	methyl acetate											
	0.112	0.091	0.108	0.120		0.109	0.103				0.107	8.96
28)	methyl tert butyl ether											
	1.774	1.716	1.656	1.663	1.759	1.613	1.576	1.629	1.606		1.666	4.19
29)	trans-1,2-dichloroethene											
	0.603	0.659	0.586	0.542	0.582	0.555	0.526	0.548	0.563	0.753	0.592	11.50
30)	di-isopropyl ether											
	1.996	1.828	1.861	1.814	1.984	1.824	1.743	1.783	2.019		1.872	5.40
31)	ethyl tert-butyl ether											
	1.915	1.460	1.739	1.777	1.963	1.413	1.714	1.726	1.761		1.719	10.58
32)	2-butanone											
	0.079	0.071	0.078	0.085		0.079	0.077	0.065			0.076	8.56
33)	1,1-dichloroethane											
	1.108	0.912	1.051	1.015	1.093	0.966	0.986	1.006	0.964		1.011	6.30
34)	chloroprene											
	0.812	0.579	0.764	0.737	0.805	0.586	0.720	0.727	0.758	0.768	0.725	11.16
35)	acrylonitrile											
	0.281	0.244	0.263	0.262	0.284	0.244	0.256	0.254	0.249	0.288	0.262	6.26
36)	vinyl acetate											
	0.090	0.078	0.093	0.103		0.089	0.089				0.090	8.99
37)	ethyl acetate											
	0.132	0.138	0.109	0.113		0.096	0.112				0.117	13.50
38)	2,2-dichloropropane											
	0.811	0.864	0.773	0.721	0.764	0.795	0.668	0.723	0.782		0.767	7.48
39)	cis-1,2-dichloroethene											
	0.667	0.704	0.646	0.607	0.646	0.622	0.581	0.600	0.614	0.774	0.646	8.87
40)	propionitrile											
	0.112	0.119	0.107	0.103	0.113	0.100	0.102	0.102	0.101		0.107	6.29
41)	methyl acrylate											
	0.633	0.591	0.618	0.667		0.620	0.603	0.494			0.604	8.93
42)	bromochloromethane											
	0.336	0.261	0.320	0.315	0.341	0.275	0.307	0.311	0.290		0.306	8.76
43)	tetrahydrofuran											
	0.248	0.249	0.206	0.219		0.204	0.207				0.222	9.50
44)	chloroform											
	1.065	1.165	1.039	0.982	1.061	1.010	0.944	0.979	0.996		1.027	6.39
45)	dibromofluoromethane (s)											
	0.563	0.550	0.556	0.516	0.551	0.534	0.504	0.514	0.494		0.531	4.71
46)	1,2-dichloroethane-d4 (s)											
	0.603	0.517	0.582	0.555	0.585	0.518	0.539	0.558	0.498		0.551	6.45
47)	freon 113											
	0.409	0.368	0.371	0.406		0.366	0.357	0.355			0.376	5.96
48)	methacrylonitrile											
	0.432	0.416	0.414	0.448	0.455	0.411	0.402	0.393			0.421	5.18
49)	1,1,1-trichloroethane											
	0.879	0.852	0.835	0.790	0.851	0.802	0.768	0.779	0.769		0.814	5.06
50)	tert-amyl methyl ether											
	1.850	1.556	1.688	1.694	1.871	1.428	1.625	1.640	1.765		1.680	8.32
51)	I 1,4-difluorobenzene											
52)	epichlorohydrin											
	0.062	0.053	0.056	0.063	0.054	0.059	0.055	0.061			0.058	6.74
53)	n-butyl alcohol											

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Initial Calibration Summary

Job Number: JB70517

Sample: V4D2197-ICC2197

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 4D49236.D

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

	0.019	0.017	0.016	0.018		0.017	0.016	0.022		0.018	11.74
54)	cyclohexane										
	0.638	0.539	0.587	0.565	0.605	0.550	0.556	0.562	0.556	0.604	0.576
55)	tert amyl alcohol										5.42
										0.000	-1.00
56)	carbon tetrachloride										
	0.608	0.458	0.561	0.563	0.603	0.514	0.549	0.546	0.512	0.546	8.58
57)	1,1-dichloropropene										
	0.635	0.522	0.598	0.590	0.626	0.570	0.574	0.579	0.538	0.581	6.33
58)	hexane										
	0.534		0.494	0.471	0.517	0.400	0.476	0.474	0.509	0.484	8.45
59)	benzene										
	1.816	1.666	1.736	1.697	1.817	1.600	1.636	1.683	1.628	1.771	1.705
60)	ISO-OCTANE										4.54
	1.679		1.488	1.459	1.605	1.131	1.442	1.455	1.525	1.473	10.93
61)	heptane										
	0.308		0.290	0.273	0.299	0.284	0.272	0.273	0.314	0.289	5.72
62)	isopropyl acetate										
	1.002		0.889	0.952	1.047	0.747	0.958	0.896	0.935	0.928	9.68
63)	1,2-dichloroethane										
	0.608	0.561	0.578	0.585	0.628	0.521	0.561	0.571	0.523	0.638	0.577
64)	trichloroethene										6.82
	0.487	0.489	0.461	0.451	0.483	0.429	0.443	0.440	0.427	0.557	0.467
65)	ethyl acrylate										8.42
										0.000	-1.00
66)	2-nitropropane										
	0.163		0.142	0.146	0.162	0.133	0.150	0.144	0.147	0.148	6.78
67)	2-chloroethyl vinyl ether										
	0.395	0.285	0.350	0.369	0.407	0.284	0.363	0.348	0.370	0.352	12.17
68)	methyl methacrylate										
	0.468	0.448	0.492	0.446	0.487	0.330	0.450	0.426	0.477	0.447	10.92
69)	1,2-dichloropropane										
	0.508	0.474	0.479	0.481	0.514	0.432	0.471	0.469	0.437	0.501	0.476
70)	methylcyclohexane										5.72
	0.742		0.664	0.665	0.726	0.540	0.665	0.644	0.704	0.669	9.32
71)	tert-amyl ethyl ether										
										0.000	-1.00
72)	dibromomethane										
	0.341	0.307	0.324	0.328	0.353	0.298	0.319	0.319	0.306	0.322	5.46
73)	bromodichloromethane										
	0.662	0.711	0.622	0.627	0.678	0.623	0.613	0.612	0.600	0.639	5.76
74)	cis-1,3-dichloropropene										
	0.807	0.715	0.738	0.765	0.828	0.708	0.755	0.749	0.705	0.696	0.747
75)	toluene-d8 (s)										5.90
	1.488	1.221	1.455	1.377	1.463	1.225	1.363	1.377	1.236	1.356	7.80
76)	4-methyl-2-pentanone										
	0.245		0.236	0.222	0.244	0.230	0.228	0.225	0.234	0.233	3.63
77)	toluene										
	1.099	1.000	1.029	1.029	1.097	0.949	1.008	1.010	0.964	1.110	1.030
78)	3-methyl-1-butanol										5.46
	0.017		0.016	0.015	0.016	0.021	0.016	0.015	0.019	0.017	12.71
79)	trans-1,3-dichloropropene										
	0.747	0.690	0.706	0.718	0.785	0.651	0.715	0.693	0.640	0.705	6.35
80)	ethyl methacrylate										
	0.706		0.701	0.658	0.709	0.778	0.654	0.645	0.714	0.696	6.22
81)	1,1,2-trichloroethane										
	0.407	0.512	0.388	0.389	0.427	0.402	0.384	0.380	0.370	0.407	10.60
82)	2-hexanone										
	0.235		0.232	0.218	0.238	0.214	0.225	0.215	0.209	0.223	4.81

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Initial Calibration Summary

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Job Number: JB70517

Sample: V4D2197-ICC2197

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 4D49236.D

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

83)	I	chlorobenzene-d5	-----ISTD-----										
84)		tetrachloroethene											
		0.542 0.448 0.513 0.516 0.548 0.468 0.512 0.501 0.473 0.509 0.503										6.30	
85)		1,3-dichloropropane											
		0.830 0.794 0.771 0.779 0.836 0.708 0.768 0.768 0.729 0.884 0.787										6.62	
86)		butyl acetate											
		0.451 0.395 0.403 0.440 0.466 0.407 0.384 0.463									0.426	7.59	
87)		dibromochloromethane											
		0.628 0.626 0.593 0.594 0.647 0.553 0.585 0.577 0.548									0.594	5.68	
88)		1,2-dibromoethane											
		0.562 0.549 0.532 0.539 0.579 0.500 0.522 0.522 0.507 0.645 0.546										7.80	
89)		n-Butyl Ether											
											0.000	-1.00	
90)		chlorobenzene											
		1.404 1.355 1.342 1.309 1.410 1.208 1.280 1.284 1.243 1.466 1.330										6.07	
91)		1,1,1,2-tetrachloroethane											
		0.536 0.533 0.513 0.505 0.550 0.441 0.491 0.494 0.457 0.536 0.506										7.06	
92)		ethylbenzene											
		2.378 2.164 2.233 2.208 2.350 2.125 2.151 2.159 2.085 2.466 2.232										5.59	
93)		m,p-xylene											
		0.891 0.814 0.836 0.831 0.879 0.767 0.808 0.815 0.776 0.826 0.824										4.74	
94)		o-xylene											
		0.894 0.768 0.853 0.842 0.898 0.763 0.821 0.827 0.783 0.812 0.826										5.73	
95)		styrene											
		1.522 1.499 1.465 1.448 1.559 1.314 1.412 1.415 1.326 1.613 1.457										6.55	
96)		butyl acrylate											
											0.000	-1.00	
97)		bromoform											
		0.471 0.483 0.452 0.447 0.494 0.387 0.453 0.438 0.403									0.448	7.80	
98)	I	1,4-dichlorobenzene-d	-----ISTD-----										
99)		isopropylbenzene											
		4.453 4.052 4.242 4.135 4.552 3.814 3.920 4.082 3.889 4.277 4.141										5.83	
100)		4-bromofluorobenzene (s)											
		1.279 1.613 1.368 1.154 1.237 1.328 1.118 1.181 1.152									1.270	12.14	
101)		bromobenzene											
		1.187 1.186 1.140 1.124 1.239 1.056 1.085 1.114 1.077 1.356 1.156										7.80	
102)		cyclohexanone											
		0.141 0.202 0.133 0.145 0.124 0.136 0.102									0.140	21.77	
		----- Linear regression ----- Coefficient = 0.9938											
		Response Ratio = 0.07378 + 0.12568 *A											
103)		1,1,2,2-tetrachloroethane											
		1.679 1.696 1.510 1.716 1.548 1.477 1.540 1.564									1.591	5.78	
104)		trans-1,4-dichloro-2-butene											
		0.285 0.266 0.289 0.337 0.258 0.305 0.275 0.245									0.282	10.35	
105)		1,2,3-trichloropropane											
		0.355 0.432 0.357 0.332 0.372 0.317 0.322 0.333 0.342									0.351	10.01	
106)		n-propylbenzene											
		5.237 5.045 4.985 4.851 5.252 4.472 4.638 4.757 4.613 5.557 4.941										6.87	
107)		2-chlorotoluene											
		1.092 1.139 1.069 1.027 1.144 0.960 0.995 1.024 0.976 0.990 1.041										6.37	
108)		4-chlorotoluene											
		3.279 3.531 3.205 3.061 3.340 2.930 2.965 3.048 2.948 3.846 3.215										9.18	
109)		1,3,5-trimethylbenzene											
		3.808 3.751 3.623 3.502 3.874 3.292 3.402 3.475 3.343 4.035 3.610										6.88	
110)		tert-butylbenzene											
		3.153 2.877 2.957 2.969 3.259 2.694 2.863 2.883 2.781 3.085 2.952										5.83	
111)		pentachloroethane											
		0.816 0.849 0.790 0.759 0.855 0.683 0.731 0.749 0.723 0.802 0.776										7.24	

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Initial Calibration Summary

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Job Number: JB70517

Sample: V4D2197-ICC2197

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 4D49236.D

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

112)	1,2,4-trimethylbenzene	3.739	3.721	3.588	3.507	3.874	3.305	3.410	3.477	3.374	4.284	3.628	8.05
113)	sec-butylbenzene	4.985	4.648	4.771	4.672	5.156	4.289	4.547	4.588	4.429	4.967	4.705	5.70
114)	1,3-dichlorobenzene	2.249	2.366	2.170	2.101	2.327	2.033	2.055	2.090	2.013	2.639	2.204	8.88
115)	p-isopropyltoluene	4.083	3.785	3.860	3.792	4.172	3.454	3.732	3.741	3.585	3.931	3.814	5.60
116)	1,4-dichlorobenzene	2.264	2.454	2.215	2.131	2.357	1.950	2.073	2.099	2.056	2.858	2.246	11.69
117)	1,2-dichlorobenzene	2.254	2.479	2.206	2.086	2.351	1.913	2.038	2.062	2.031	2.637	2.206	10.28
118)	n-butylbenzene	2.193	2.025	2.098	2.050	2.253	1.900	2.037	2.000	1.943	2.188	2.069	5.50
119)	1,2-dibromo-3-chloropropane	0.310		0.303	0.279	0.325	0.276	0.288	0.281	0.285		0.293	5.88
120)	1,3,5-trichlorobenzene	1.855	1.944	1.802	1.772	1.986	1.581	1.783	1.715	1.633	2.111	1.818	8.92
121)	1,2,4-trichlorobenzene	1.742		1.694	1.664	1.913	1.493	1.699	1.644	1.544		1.674	7.61
122)	hexachlorobutadiene	0.891	0.757	0.828	0.837	0.941	0.770	0.845	0.806	0.752	0.863	0.829	7.30
123)	naphthalene	4.601		4.510	4.368	4.973	3.862	4.352	4.368	4.047		4.385	7.69
124)	1,2,3-trichlorobenzene	1.683	1.827	1.605	1.610	1.834	1.368	1.580	1.575	1.479		1.618	9.27
125)	hexachloroethane	0.899	0.827	0.849	0.843	0.950	0.741	0.855	0.824	0.772	0.960	0.852	8.19
126)	Benzyl chloride	2.973	3.128	2.732	2.668	2.940	2.468	2.538	2.582	3.004		2.781	8.46

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

M4D2197.M

Fri Jun 13 18:30:44 2014

RPT1

Initial Calibration Verification

Job Number: JB70517

Sample: V4D2197-ICV2197

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 4D49241.D

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

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\4d49241.D

Vial: 14

Acq On : 13 Jun 2014 7:01 pm

Operator: PayalR

Sample : icv2197-50

Inst : MS4D

Misc : MS68671,V4D2197,5,,,,,1

Multiplr: 1.00

MS Integration Params: rteint5.p

Method : C:\msdchem\1\methods\M4D2197.M (RTE Integrator)

Title : SW-846 Method 8260B/8260C

Last Update : Fri Jun 13 18:12:09 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	0.00	7.00
2	1,4-dioxane	0.121	0.113	6.6	95	0.00	11.29
3 M	tertiary butyl alcohol	1.489	1.441	3.2	100	0.00	7.13
4 I	pentafluorobenzene	1.000	1.000	0.0	105	0.00	9.59
5	chlorodifluoromethane	0.588	0.482	18.0	87	0.00	3.33
6	dichlorodifluoromethane	0.815	0.783	3.9	107	0.00	3.33
7	chloromethane	0.913	0.898	1.6	106	0.00	3.64
8	vinyl chloride	0.850	0.882	-3.8	106	0.00	3.90
9	acetaldehyde			-----NA-----			
10	bromomethane	0.613	0.562	8.3	102	0.00	4.57
11	chloroethane	0.357	0.356	0.3	105	0.00	4.77
12	trichlorofluoromethane	0.892	0.911	-2.1	104	0.00	5.32
13	vinyl bromide			-----NA-----			
14	ethyl ether	0.269	0.295	-9.7	106	0.00	5.78
15	pentane			-----NA-----			
16	2-chloropropane	0.904	0.867	4.1	104	0.00	5.97
17	acrolein	0.146	0.140	4.1	103	0.00	6.00
18	1,1-dichloroethene	0.528	0.504	4.5	105	0.00	6.22
19	acetone	0.197	0.190	3.6	100	0.00	6.27
20	allyl chloride	0.262	0.254	3.1	104	0.00	6.81
21	acetonitrile	0.035	0.035	0.0	100	0.00	6.73
22	iodomethane	0.997	1.031	-3.4	105	0.00	6.50
23	iso-butyl alcohol	0.025	0.023	8.0	100	0.00	9.87
24	carbon disulfide	1.929	1.931	-0.1	105	0.00	6.64
25	methylene chloride	0.643	0.605	5.9	105	0.00	7.01
26	1-chloropropane	0.917	0.876	4.5	106	0.00	7.08
27	methyl acetate	0.107	0.100	6.5	97	0.00	6.82
28	methyl tert butyl ether	1.666	1.611	3.3	102	0.00	7.46
29	trans-1,2-dichloroethene	0.592	0.539	9.0	104	0.00	7.46
30	di-isopropyl ether	1.872	1.793	4.2	104	0.00	8.19
31	ethyl tert-butyl ether	1.719	1.700	1.1	100	0.00	8.72
32	2-butanone	0.076	0.076	0.0	102	0.00	8.93
33 M	1,1-dichloroethane	1.011	1.014	-0.3	105	0.00	8.11
34	chloroprene	0.725	0.700	3.4	100	0.00	8.26
35	acrylonitrile	0.262	0.264	-0.8	105	0.00	7.37
36	vinyl acetate	0.090	0.101	-12.2	114	0.00	8.15
37	ethyl acetate	0.117	0.095	18.8	91	0.00	9.00
38	2,2-dichloropropane	0.767	0.642	16.3	93	0.00	8.96
39	cis-1,2-dichloroethene	0.646	0.598	7.4	103	0.00	8.94
40	propionitrile	0.107	0.103	3.7	105	0.00	9.00
41	methyl acrylate	0.604	0.619	-2.5	105	0.00	9.06

Initial Calibration Verification

Job Number: JB70517

Sample: V4D2197-ICV2197

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 4D49241.D

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

42	bromochloromethane	0.306	0.313	-2.3	104	0.00	9.27
43	tetrahydrofuran	0.222	0.210	5.4	107	0.00	9.34
44	chloroform	1.027	0.976	5.0	104	0.00	9.36
45 S	dibromofluoromethane (s)	0.531	0.519	2.3	105	0.00	9.57
46 S	1,2-dichloroethane-d4 (s)	0.551	0.556	-0.9	105	0.00	10.02
47	freon 113	0.376	0.384	-2.1	108	0.00	6.24
48	methacrylonitrile	0.421	0.407	3.3	103	0.00	9.22
49	1,1,1-trichloroethane	0.814	0.792	2.7	105	0.00	9.65
50	tert-amyl methyl ether	1.680	1.613	4.0	100	0.00	10.22
51 I	1,4-difluorobenzene	1.000	1.000	0.0	104	0.00	10.54
52	epichlorohydrin	0.058	0.054	6.9	99	0.00	11.85
53	n-butyl alcohol	0.018	0.016	11.1	99	0.00	10.68
54 M	cyclohexane	0.576	0.565	1.9	104	0.00	9.75
55	tert amyl alcohol			-----NA-----			
56	carbon tetrachloride	0.546	0.561	-2.7	104	0.00	9.88
57	1,1-dichloropropene	0.581	0.582	-0.2	102	0.00	9.85
58	hexane	0.484	0.487	-0.6	108	0.00	7.89
59 M	benzene	1.705	1.681	1.4	103	0.00	10.12
60	ISO-OCTANE	1.473	1.427	3.1	102	0.00	10.21
61	heptane	0.289	0.291	-0.7	111	0.00	10.40
62	isopropyl acetate	0.928	0.938	-1.1	102	0.00	10.11
63	1,2-dichloroethane	0.577	0.584	-1.2	104	0.00	10.12
64	trichloroethene	0.467	0.448	4.1	103	0.00	10.89
65	ethyl acrylate			-----NA-----			
66	2-nitropropane	0.148	0.148	0.0	105	0.00	11.70
67	2-chloroethyl vinyl ether	0.352	0.353	-0.3	100	0.00	11.76
68	methyl methacrylate	0.447	0.451	-0.9	105	0.00	11.22
69	1,2-dichloropropane	0.476	0.483	-1.5	105	0.00	11.16
70	methylcyclohexane	0.669	0.696	-4.0	109	0.00	11.16
71 M	tert-amyl ethyl ether			-----NA-----			
72	dibromomethane	0.322	0.327	-1.6	104	0.00	11.30
73	bromodichloromethane	0.639	0.618	3.3	102	0.00	11.46
74	cis-1,3-dichloropropene	0.747	0.760	-1.7	103	0.00	11.97
75 S	toluene-d8 (s)	1.356	1.388	-2.4	105	0.00	12.30
76	4-methyl-2-pentanone	0.233	0.225	3.4	105	0.00	12.10
77	toluene	1.030	1.033	-0.3	104	0.00	12.38
78	3-methyl-1-butanol	0.017	0.014	17.6	97	0.00	12.12
79	trans-1,3-dichloropropene	0.705	0.710	-0.7	103	0.00	12.57
80	ethyl methacrylate	0.696	0.659	5.3	104	0.00	12.62
81	1,1,2-trichloroethane	0.407	0.389	4.4	104	0.00	12.80
82	2-hexanone	0.223	0.218	2.2	104	0.00	13.02
83 I	chlorobenzene-d5	1.000	1.000	0.0	105	0.00	13.91
84	tetrachloroethene	0.503	0.516	-2.6	105	0.00	13.01
85	1,3-dichloropropane	0.787	0.774	1.7	105	0.00	12.99
86	butyl acetate	0.426	0.388	8.9	101	0.00	13.13
87	dibromochloromethane	0.594	0.590	0.7	105	0.00	13.26
88	1,2-dibromoethane	0.546	0.531	2.7	104	0.00	13.42
89	n-Butyl Ether			-----NA-----			
90	chlorobenzene	1.330	1.291	2.9	104	0.00	13.95
91	1,1,1,2-tetrachloroethane	0.506	0.496	2.0	103	0.00	14.01
92	ethylbenzene	2.232	2.183	2.2	104	0.00	14.03
93	m,p-xylene	0.824	0.817	0.8	104	0.00	14.15
94	o-xylene	0.826	0.825	0.1	103	0.00	14.60
95	styrene	1.457	1.428	2.0	104	0.00	14.60
96	butyl acrylate			-----NA-----			
97	bromoform	0.448	0.439	2.0	103	0.00	14.84
98 I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	107	0.00	16.34

Initial Calibration Verification

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Job Number: JB70517

Sample: V4D2197-ICV2197

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 4D49241.D

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

99	isopropylbenzene	4.141	4.052	2.1	105	0.00	14.97
100 S	4-bromofluorobenzene (s)	1.270	1.131	10.9	105	0.00	15.16
101	bromobenzene	1.156	1.100	4.8	105	0.00	15.35
----- True Calc. % Drift -----							
102	cyclohexanone	500.000	287.545	42.5#	64	0.00	15.10
----- AvgRF CCRF % Dev -----							
103	1,1,2,2-tetrachloroethane	1.591	1.497	5.9	106	0.00	15.25
104	trans-1,4-dichloro-2-bute	0.282	0.279	1.1	103	0.00	15.30
105	1,2,3-trichloropropane	0.351	0.330	6.0	106	0.00	15.32
106	n-propylbenzene	4.941	4.710	4.7	104	0.00	15.40
107	2-chlorotoluene	1.041	1.007	3.3	105	0.00	15.53
108	4-chlorotoluene	3.215	3.007	6.5	105	0.00	15.63
109	1,3,5-trimethylbenzene	3.610	3.398	5.9	104	0.00	15.56
110	tert-butylbenzene	2.952	2.872	2.7	103	0.00	15.91
111	pentachloroethane	0.776	0.727	6.3	102	0.00	15.96
112	1,2,4-trimethylbenzene	3.628	3.411	6.0	104	0.00	15.95
113	sec-butylbenzene	4.705	4.522	3.9	103	0.00	16.13
114	1,3-dichlorobenzene	2.204	2.062	6.4	105	0.00	16.28
115	p-isopropyltoluene	3.814	3.705	2.9	104	0.00	16.25
116	1,4-dichlorobenzene	2.246	2.100	6.5	105	0.00	16.37
117	1,2-dichlorobenzene	2.206	2.054	6.9	105	0.00	16.74
118	n-butylbenzene	2.069	1.994	3.6	104	0.00	16.66
119	1,2-dibromo-3-chloropropa	0.293	0.273	6.8	105	0.00	17.47
120 m	1,3,5-trichlorobenzene	1.818	1.717	5.6	104	0.00	17.67
121	1,2,4-trichlorobenzene	1.674	1.642	1.9	105	0.00	18.24
122	hexachlorobutadiene	0.829	0.785	5.3	100	0.00	18.38
123	naphthalene	4.385	4.241	3.3	104	0.00	18.50
124	1,2,3-trichlorobenzene	1.618	1.552	4.1	103	0.00	18.73
125	hexachloroethane	0.852	0.814	4.5	103	0.00	17.02
126	Benzyl chloride	2.781	2.112	24.1#	85	0.00	16.48

(#) = Out of Range
4d49236.D M4D2197.M

SPCC's out = 0 CCC's out = 0
Mon Jun 16 09:21:11 2014 RPT1

6.7.2
6

Continuing Calibration Summary

Job Number: JB70517

Sample: V4D2227-CC2197

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 4D49947.D

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

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\4d49947.D

Vial: 2

Acq On : 3 Jul 2014 10:21 am

Operator: PayalR

Sample : cc2197-20

Inst : MS4D

Misc : MS69975,V4D2227,5,,,,,1

Multiplr: 1.00

MS Integration Params: rteint5.p

Method : C:\MSDCHEM\1\METHODS\M4D2197.M (RTE Integrator)

Title : SW-846 Method 8260B/8260C

Last Update : Fri Jun 13 18:12:09 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	61	0.00	7.00
2	1,4-dioxane	0.121	0.143	-18.2	74	0.00	11.29
3 M	tertiary butyl alcohol	1.489	1.766	-18.6	77	0.00	7.14
4 I	pentafluorobenzene	1.000	1.000	0.0	69	0.00	9.59
5	chlorodifluoromethane	0.588	0.571	2.9	70	0.00	3.33
6	dichlorodifluoromethane	0.815	0.794	2.6	72	0.00	3.33
7	chloromethane	0.913	0.833	8.8	67	0.00	3.63
8	vinyl chloride	0.850	0.765	10.0	64	0.00	3.89
9	acetaldehyde			-----NA-----			
10	bromomethane	0.613	0.520	15.2	63	0.00	4.57
11	chloroethane	0.357	0.336	5.9	65	0.00	4.78
12	trichlorofluoromethane	0.892	0.981	-10.0	77	0.00	5.32
13	vinyl bromide			-----NA-----			
14	ethyl ether	0.269	0.252	6.3	61	0.00	5.78
15	pentane			-----NA-----			
16	2-chloropropane	0.904	0.841	7.0	69	0.00	5.97
17	acrolein	0.146	0.123	15.8	59	0.00	6.01
18	1,1-dichloroethene	0.528	0.428	18.9	60	0.00	6.22
19	acetone	0.197	0.180	8.6	70	0.01	6.28
20	allyl chloride	0.262	0.216	17.6	59	0.00	6.81
21	acetonitrile	0.035	0.040	-14.3	80	0.01	6.73
22	iodomethane	0.997	0.905	9.2	62	0.00	6.49
23	iso-butyl alcohol	0.025	0.027	-8.0	79	0.00	9.87
24	carbon disulfide	1.929	1.589	17.6	59	0.00	6.64
25	methylene chloride	0.643	0.540	16.0	62	0.00	7.01
26	1-chloropropane	0.917	0.882	3.8	69	0.00	7.08
27	methyl acetate	0.107	0.090	15.9	60	0.00	6.83
28	methyl tert butyl ether	1.666	1.579	5.2	67	0.00	7.46
29	trans-1,2-dichloroethene	0.592	0.481	18.8	60	0.00	7.47
30	di-isopropyl ether	1.872	1.932	-3.2	74	0.00	8.19
31	ethyl tert-butyl ether	1.719	1.882	-9.5	75	0.00	8.71
32	2-butanone	0.076	0.064	15.8	57	0.01	8.94
33 M	1,1-dichloroethane	1.011	0.965	4.5	66	0.00	8.12
34	chloroprene	0.725	0.754	-4.0	71	0.00	8.26
35	acrylonitrile	0.262	0.213	18.7	57	0.00	7.38
36	vinyl acetate	0.090	0.080	11.1	62	0.00	8.16
37	ethyl acetate	0.117	0.101	13.7	62	0.00	9.00
38	2,2-dichloropropane	0.767	0.817	-6.5	78	0.00	8.97
39	cis-1,2-dichloroethene	0.646	0.540	16.4	62	0.00	8.95
40	propionitrile	0.107	0.086	19.6	58	0.00	9.00
41	methyl acrylate	0.604	0.521	13.7	59	0.01	9.07

Continuing Calibration Summary

Job Number: JB70517

Sample: V4D2227-CC2197

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 4D49947.D

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

42	bromochloromethane	0.306	0.287	6.2	63	0.00	9.27
43	tetrahydrofuran	0.222	0.173	22.1#	58	0.00	9.35
44	chloroform	1.027	0.983	4.3	69	0.00	9.36
45 S	dibromofluoromethane (s)	0.531	0.500	5.8	67	0.00	9.57
46 S	1,2-dichloroethane-d4 (s)	0.551	0.597	-8.3	73	0.00	10.02
47	freon 113	0.376	0.361	4.0	70	0.00	6.24
48	methacrylonitrile	0.421	0.361	14.3	62	0.00	9.23
49	1,1,1-trichloroethane	0.814	0.822	-1.0	72	0.00	9.65
50	tert-amyl methyl ether	1.680	1.781	-6.0	75	0.00	10.22
51 I	1,4-difluorobenzene	1.000	1.000	0.0	69	0.00	10.54
52	epichlorohydrin	0.058	0.058	0.0	73	0.00	11.85
53	n-butyl alcohol	0.018	0.016	11.1	71	0.00	10.68
54 M	cyclohexane	0.576	0.489	15.1	60	0.00	9.75
55	tert amyl alcohol			-----NA-----			
56	carbon tetrachloride	0.546	0.580	-6.2	73	0.00	9.88
57	1,1-dichloropropene	0.581	0.535	7.9	64	0.00	9.86
58	hexane	0.484	0.473	2.3	69	0.00	7.90
59 M	benzene	1.705	1.512	11.3	62	0.00	10.12
60	ISO-OCTANE	1.473	1.423	3.4	68	0.00	10.21
61	heptane	0.289	0.283	2.1	72	0.00	10.41
62	isopropyl acetate	0.928	1.007	-8.5	78	0.00	10.11
63	1,2-dichloroethane	0.577	0.635	-10.1	77	0.00	10.12
64	trichloroethene	0.467	0.412	11.8	65	0.00	10.90
65	ethyl acrylate			-----NA-----			
66	2-nitropropane	0.148	0.141	4.7	68	0.00	11.70
67	2-chloroethyl vinyl ether	0.352	0.276	21.6#	55	0.00	11.76
68	methyl methacrylate	0.447	0.410	8.3	66	0.00	11.22
69	1,2-dichloropropane	0.476	0.442	7.1	65	0.00	11.16
70	methylcyclohexane	0.669	0.614	8.2	66	0.00	11.16
71 M	tert-amyl ethyl ether			-----NA-----			
72	dibromomethane	0.322	0.311	3.4	67	0.00	11.31
73	bromodichloromethane	0.639	0.624	2.3	70	0.00	11.46
74	cis-1,3-dichloropropene	0.747	0.729	2.4	67	0.00	11.97
75 S	toluene-d8 (s)	1.356	1.296	4.4	65	0.00	12.30
76	4-methyl-2-pentanone	0.233	0.190	18.5	58	0.00	12.10
77	toluene	1.030	0.932	9.5	64	0.00	12.38
78	3-methyl-1-butanol	0.017	0.015	11.8	68	0.00	12.12
79	trans-1,3-dichloropropene	0.705	0.704	0.1	70	0.00	12.58
80	ethyl methacrylate	0.696	0.576	17.2	62	0.00	12.62
81	1,1,2-trichloroethane	0.407	0.361	11.3	66	0.00	12.80
82	2-hexanone	0.223	0.185	17.0	59	0.00	13.03
83 I	chlorobenzene-d5	1.000	1.000	0.0	71	0.00	13.91
84	tetrachloroethene	0.503	0.453	9.9	64	0.00	13.01
85	1,3-dichloropropane	0.787	0.730	7.2	68	0.00	13.00
86	butyl acetate	0.426	0.406	4.7	75	0.00	13.13
87	dibromochloromethane	0.594	0.572	3.7	70	0.00	13.26
88	1,2-dibromoethane	0.546	0.488	10.6	67	0.00	13.43
89	n-Butyl Ether			-----NA-----			
90	chlorobenzene	1.330	1.208	9.2	67	0.00	13.95
91	1,1,1,2-tetrachloroethane	0.506	0.477	5.7	69	0.00	14.01
92	ethylbenzene	2.232	2.066	7.4	68	0.00	14.03
93	m,p-xylene	0.824	0.750	9.0	66	0.00	14.15
94	o-xylene	0.826	0.765	7.4	66	0.00	14.60
95	styrene	1.457	1.303	10.6	66	0.00	14.60
96	butyl acrylate			-----NA-----			
97	bromoform	0.448	0.416	7.1	68	0.00	14.84
98 I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	74	0.00	16.34

6.7.3

6

Continuing Calibration Summary

Page 3 of 3

Job Number: JB70517

Account: LANGAN Langan Engineering & Environmental

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

Sample: V4D2227-CC2197

Lab FileID: 4D49947.D

99	isopropylbenzene	4.141	3.680	11.1	67	0.00	14.97
100 S	4-bromofluorobenzene (s)	1.270	1.061	16.5	67	0.00	15.16
101	bromobenzene	1.156	1.037	10.3	69	0.00	15.35
----- True Calc. % Drift -----							
102	cyclohexanone	200.000	169.095	15.5	68	0.00	15.10
----- AvgRF CCRF % Dev -----							
103	1,1,2,2-tetrachloroethane	1.591	1.383	13.1	67	0.00	15.25
104	trans-1,4-dichloro-2-bute	0.282	0.230	18.4	62	0.00	15.30
105	1,2,3-trichloropropane	0.351	0.319	9.1	71	0.00	15.32
106	n-propylbenzene	4.941	4.385	11.3	69	0.00	15.40
107	2-chlorotoluene	1.041	0.922	11.4	67	0.00	15.53
108	4-chlorotoluene	3.215	2.933	8.8	72	0.00	15.63
109	1,3,5-trimethylbenzene	3.610	3.188	11.7	68	0.00	15.56
110	tert-butylbenzene	2.952	2.582	12.5	67	0.00	15.91
111	pentachloroethane	0.776	0.695	10.4	69	0.00	15.96
112	1,2,4-trimethylbenzene	3.628	3.224	11.1	69	0.00	15.95
113	sec-butylbenzene	4.705	4.155	11.7	67	0.00	16.13
114	1,3-dichlorobenzene	2.204	1.983	10.0	71	0.00	16.28
115	p-isopropyltoluene	3.814	3.361	11.9	67	0.00	16.25
116	1,4-dichlorobenzene	2.246	2.022	10.0	72	0.00	16.37
117	1,2-dichlorobenzene	2.206	1.984	10.1	72	0.00	16.75
118	n-butylbenzene	2.069	1.853	10.4	69	0.00	16.66
119	1,2-dibromo-3-chloropropa	0.293	0.271	7.5	72	0.00	17.47
120 m	1,3,5-trichlorobenzene	1.818	1.695	6.8	73	0.00	17.67
121	1,2,4-trichlorobenzene	1.674	1.575	5.9	71	0.00	18.25
122	hexachlorobutadiene	0.829	0.743	10.4	69	0.00	18.38
123	naphthalene	4.385	3.769	14.0	64	0.00	18.50
124	1,2,3-trichlorobenzene	1.618	1.436	11.2	68	0.00	18.73
125	hexachloroethane	0.852	0.739	13.3	67	0.00	17.02
126	Benzyl chloride	2.781	2.895	-4.1	83	0.00	16.48

(#) = Out of Range
4d49235.D M4D2197.M

SPCC's out = 0 CCC's out = 0
Mon Jul 07 08:10:45 2014 RPT1

6.7.3
6

Initial Calibration Summary

Page 1 of 5

Job Number: JB70517
Account: LANGAN Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY
Sample: VY6377-ICC6377
Lab FileID: Y146740.D

Response Factor Report MSY

Method : C:\MSDCHEM\1\METHODS\MYS6377.M (RTE Integrator)
 Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 Last Update : Wed Jun 25 11:30:58 2014
 Response via : Initial Calibration

Calibration Files

5	=Y146737.D	10	=Y146738.D	0.5	=Y146734.D	50	=Y146740.D
100	=Y146741.D	1	=Y146735.D	200	=Y146742.D	20	=Y146739.D
2	=Y146736.D	0.2	=Y146733.D	=		=	

Compound	5	10	0.5	50	100	1	200	20	2	0.2	Avg	%RSD

1) I Tert Butyl Alcohol-d9	-----ISTD-----											
2) 1,4-dioxane												
	0.117	0.121		0.129	0.118		0.118	0.115			0.120	3.98
3) ETHANOL												
											0.000	-1.00
4) tertiary butyl alcohol												
	1.400	1.367		1.368	1.316	1.266	1.282	1.311	1.286		1.324	3.65
5) I pentafluorobenzene	-----ISTD-----											
6) propene												
											0.000	-1.00
7) freon 141b												
											0.000	-1.00
8) freon 142b												
											0.000	-1.00
9) freon 143a												
											0.000	-1.00
10) freon 114												
											0.000	-1.00
11) chlorodifluoromethane												
	0.309	0.341		0.311	0.310		0.304	0.374	0.326		0.325	7.71
12) dichlorodifluoromethane												
	0.386	0.397		0.355	0.375		0.366	0.425	0.353		0.380	6.70
13) chloromethane												
	0.530	0.531		0.504	0.506	0.658	0.499	0.562	0.491		0.535	10.21
14) vinyl chloride												
	0.491	0.492		0.454	0.459	0.541	0.451	0.517	0.424		0.479	8.10
15) 1,3-butadiene												
											0.000	-1.00
16) bromomethane												
	0.370	0.361		0.331	0.324		0.275	0.369	0.369		0.343	10.34
17) chloroethane												
	0.226	0.228		0.216	0.214	0.233	0.203	0.240	0.204		0.221	6.10
18) Vinyl Bromide												
											0.000	-1.00
19) trichlorofluoromethane												
	0.513	0.517		0.461	0.476	0.632	0.465	0.548	0.496		0.514	10.91
20) ethyl ether												
	0.212	0.212		0.202	0.219	0.193	0.219	0.215	0.193		0.208	5.16
21) 2-chloropropane												
	0.144	0.155		0.139	0.142		0.140	0.162	0.134		0.145	6.67
22) acrolein												
	0.093	0.083		0.073		0.077	0.076	0.075	0.077		0.079	8.51
23) 1,1-dichloroethene												

Initial Calibration Summary

Job Number: JB70517

Sample: VY6377-ICC6377

Account: LANGAN Langan Engineering & Environmental

Lab FileID: Y146740.D

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

24)	acetone	0.533	0.539	0.615	0.487	0.493	0.535	0.492	0.554	0.513	0.529	7.55
25)	allyl chloride	0.273	0.235		0.196	0.182			0.235		0.224	16.10
26)	acetonitrile	0.196	0.201		0.182	0.184		0.185	0.180		0.188	4.48
27)	iodomethane	0.036	0.033		0.027	0.029		0.028	0.027		0.030	12.10
28)	carbon disulfide	0.676	0.668		0.636	0.654	0.679	0.654	0.717	0.662	0.668	3.58
29)	1-chloropropane	1.236	1.239	1.643	1.128	1.138	1.321	1.129	1.296	1.225	1.262	12.63
30)	methylene chloride	0.926	0.779		0.590	0.593		0.584	0.738		0.702	19.69
31)	methyl acetate	0.843	0.736		0.560	0.561		0.553	0.663		0.653	18.15
32)	methyl tert butyl ether	0.044	0.052		0.056	0.059		0.060	0.054		0.054	10.94
33)	trans-1,2-dichloroethene	1.158	1.157	1.099	1.096	1.164	1.220	1.143	1.176	1.142	1.146	3.12
34)	di-isopropyl ether	0.530	0.538	0.595	0.494	0.509	0.519	0.510	0.560	0.519	0.530	5.80
35)	ethyl tert-butyl ether	1.283	1.339	1.359	1.305	1.338	1.434	1.344	1.420	1.298	1.633	7.49
36)	2-butanone	1.222	1.293	1.150	1.269	1.300	1.371	1.302	1.358	1.227	1.372	5.61
37)	1,1-dichloroethane	0.051	0.053		0.054	0.056		0.050	0.056		0.053	4.64
38)	chloroprene	0.692	0.691	0.775	0.638	0.659	0.721	0.665	0.718	0.658	0.691	6.12
39)	acrylonitrile	0.480	0.510	0.505	0.467	0.475	0.506	0.479	0.534	0.457	0.490	5.02
40)	vinyl acetate	0.131	0.131		0.129	0.137	0.112	0.132	0.134	0.111	0.127	7.80
41)	ethyl acetate	0.037	0.045		0.059	0.063		0.063	0.057		0.054	19.67
42)	2,2-dichloropropane	0.049	0.054		0.057	0.060		0.059	0.061		0.057	8.20
43)	cis-1,2-dichloroethene	0.527	0.530	0.659	0.476	0.479	0.609	0.471	0.564	0.538	0.539	11.80
44)	propionitrile	0.435	0.434	0.512	0.404	0.420	0.478	0.428	0.458	0.446	0.446	7.31
45)	bromochloromethane	0.052	0.051		0.051	0.054	0.035	0.053	0.052	0.043	0.049	13.59
46)	tetrahydrofuran	0.276	0.278		0.264	0.281	0.282	0.282	0.284	0.274	0.278	2.35
47)	chloroform	0.051	0.052		0.049	0.052		0.051	0.048		0.051	3.28
48)	tert-Butyl Formate	0.687	0.674		0.630	0.655	0.846	0.659	0.705	0.697	0.694	9.50
49)	isobutyl alcohol	0.249	0.255		0.262	0.271		0.267	0.272	0.245	0.260	4.16
50)	dibromofluoromethane (s)	0.017	0.014		0.013	0.014		0.013	0.013		0.014	10.17
51)	1,2-dichloroethane-d4 (s)	0.396	0.384		0.348	0.367		0.366	0.398	0.472	0.390	10.27
52)	freon 113	0.429	0.414		0.393	0.415		0.405	0.420		0.413	2.98
53)	methacrylonitrile	0.256	0.270		0.239	0.249		0.245	0.283	0.230	0.253	7.25

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	0.143	0.148		0.142	0.155		0.151	0.146		0.148	3.35		
54)	1,1,1-trichloroethane												
	0.532	0.549	0.631	0.494	0.505	0.554	0.504	0.576	0.510	0.539	8.15		
55)	Cyclohexane												
	0.559	0.547	0.650	0.488	0.494	0.582	0.495	0.581	0.561	0.551	9.55		
56)	2,2,4-trimethylpentane												
	1.420	1.526	1.400	1.144	1.370	1.568	1.361	1.556	1.424	1.419	9.13		
57)	tert-amyl methyl ether												
	1.208	1.232	1.212	1.216	1.261	1.385	1.246	1.297	1.209	1.252	4.64		
58)	I	1,4-difluorobenzene -----ISTD-----											
59)	epichlorohydrin												
	0.031	0.032		0.031	0.032		0.031	0.031	0.027	0.031	5.19		
60)	n-butyl alcohol												
	0.010	0.010		0.010	0.011	0.009	0.010	0.010	0.008	0.010	9.79		
61)	carbon tetrachloride												
	0.396	0.406	0.449	0.372	0.371	0.434	0.368	0.418	0.380	0.399	7.44		
62)	1,1-dichloropropene												
	0.399	0.421	0.479	0.375	0.379	0.407	0.380	0.431	0.387	0.406	8.24		
63)	hexane												
	0.465	0.457		0.344	0.382		0.379	0.458		0.414	12.55		
64)	Tert Amyl Alcohol												
	0.022	0.021		0.020	0.020		0.019	0.021	0.018	0.020	6.03		
65)	benzene												
	1.283	1.298	1.490	1.209	1.233	1.398	1.242	1.352	1.286	1.434	1.322	7.04	
66)	heptane												
	0.256	0.265		0.207	0.232		0.228	0.273	0.256	0.245	9.54		
67)	isopropyl acetate												
	0.125	0.131		0.133	0.135		0.133	0.140	0.114	0.130	6.58		
68)	1,2-dichloroethane												
	0.381	0.389	0.308	0.373	0.388	0.379	0.382	0.393	0.362	0.373	7.01		
69)	trichloroethene												
	0.323	0.329	0.354	0.302	0.304	0.334	0.306	0.335	0.301	0.321	5.87		
70)	ethyl acrylate												
	0.323	0.366		0.386	0.404		0.398	0.399		0.379	8.06		
71)	2-nitropropane												
	0.110	0.110		0.103	0.098		0.095	0.101	0.116	0.105	7.18		
72)	2-chloroethyl vinyl ether												
	0.131	0.137		0.140	0.144		0.141	0.143	0.119	0.136	6.36		
73)	methyl methacrylate												
	0.212	0.218		0.211	0.221		0.214	0.214	0.188	0.211	5.08		
74)	1,2-dichloropropane												
	0.339	0.345	0.353	0.319	0.331	0.366	0.333	0.352	0.331	0.341	4.19		
75)	methylcyclohexane												
	0.521	0.553	0.541	0.483	0.499	0.572	0.497	0.577	0.507	0.528	6.51		
76)	Tert-amyl ethyl ether												
	0.756	0.781	0.813	0.771	0.797	0.771	0.795	0.852	0.722	0.784	4.68		
77)	dibromomethane												
	0.200	0.208		0.195	0.203	0.177	0.200	0.204	0.194	0.198	4.72		
78)	bromodichloromethane												
	0.437	0.439	0.415	0.423	0.444	0.465	0.444	0.456	0.429	0.439	3.55		
79)	cis-1,3-dichloropropene												
	0.551	0.565	0.527	0.536	0.554	0.584	0.557	0.581	0.542	0.555	3.47		
80)	toluene-d8 (s)												
	1.187	1.185		1.061	1.082		1.069	1.201	1.309	1.156	7.85		
81)	4-methyl-2-pentanone												
	0.122	0.127		0.123	0.130		0.124	0.124	0.107	0.122	6.10		
82)	toluene												
	1.377	1.380	1.815	1.268	1.289	1.530	1.288	1.426	1.425	1.422	11.90		
83)	3-methyl-1-butanol												

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	0.009	0.009		0.009	0.010		0.009	0.009	0.007		0.009	8.92
84)	trans-1,3-dichloropropene											
	0.498	0.499	0.397	0.487	0.502	0.486	0.499	0.517	0.474		0.484	7.22
85)	ethyl methacrylate											
	0.399	0.403		0.400	0.419	0.392	0.413	0.414	0.362		0.400	4.45
86)	1,1,2-trichloroethane											
	0.253	0.250	0.217	0.244	0.253	0.253	0.252	0.257	0.241		0.247	4.86
87)	2-hexanone											
	0.140	0.140		0.143	0.146		0.135	0.148	0.103		0.136	11.14
88)	I	chlorobenzene-d5 -----ISTD-----										
89)	tetrachloroethene											
	0.434	0.440	0.492	0.410	0.417	0.421	0.402	0.442	0.384		0.427	7.22
90)	1,3-dichloropropane											
	0.535	0.546	0.469	0.515	0.537	0.581	0.534	0.546	0.503		0.530	5.93
91)	butyl acetate											
	0.222	0.236		0.247	0.251		0.241	0.261			0.243	5.46
92)	dibromochloromethane											
	0.415	0.426	0.394	0.405	0.429	0.409	0.429	0.424	0.393		0.414	3.43
93)	1,2-dibromoethane											
	0.355	0.356	0.307	0.335	0.355	0.339	0.353	0.348	0.316		0.341	5.33
94)	3,3-Dimethyl-1-Butanol											
	0.041	0.041		0.040	0.041	0.041	0.040	0.039	0.035		0.040	5.08
95)	n-butyl ether											
											0.000	-1.00
96)	chlorobenzene											
	1.064	1.067	1.109	0.979	1.010	1.120	1.018	1.078	1.019		1.052	4.56
97)	1,1,1,2-tetrachloroethane											
	0.388	0.384	0.353	0.367	0.382	0.389	0.384	0.395	0.364		0.379	3.63
98)	ethylbenzene											
	1.711	1.756	2.120	1.588	1.621	1.842	1.632	1.764	1.697	1.783	1.751	8.68
99)	m,p-xylene											
	0.677	0.695	0.807	0.623	0.635	0.713	0.637	0.693	0.648	0.759	0.689	8.56
100)	o-xylene											
	1.411	1.400	1.572	1.294	1.332	1.453	1.341	1.416	1.329	1.430	1.398	5.75
101)	styrene											
	1.105	1.151	1.050	1.093	1.135	1.121	1.146	1.178	1.048	1.018	1.105	4.71
102)	bromoform											
	0.297	0.294	0.255	0.284	0.303	0.277	0.303	0.295	0.266		0.286	5.95
103)	I	1,4-dichlorobenzene-d -----ISTD-----										
104)	isopropylbenzene											
	3.227	3.272	3.967	2.945	2.956	3.399	2.957	3.228	3.059	3.880	3.289	11.21
105)	4-bromofluorobenzene (s)											
	0.982	0.987		0.892	0.909	1.242	0.903	0.962	1.137		1.002	12.43
106)	cis-1,4-dichloro-2-butene											
											0.000	-1.00
107)	bromobenzene											
	0.923	0.931	0.873	0.879	0.906	0.950	0.914	0.924	0.886		0.910	2.83
108)	cyclohexanone											
	0.179	0.172		0.161	0.162		0.138	0.161	0.148		0.160	8.76
109)	1,1,2,2-tetrachloroethane											
	0.965	0.946	0.891	0.880	0.916	0.969	0.886	0.896	0.895		0.916	3.83
110)	trans-1,4-dichloro-2-butene											
	0.232	0.224		0.217	0.229		0.220	0.223	0.189		0.219	6.48
111)	1,2,3-trichloropropane											
	0.208	0.210		0.192	0.201	0.207	0.193	0.190	0.194		0.199	3.92
112)	n-propylbenzene											
	3.694	3.753	4.500	3.440	3.428	3.871	3.432	3.750	3.537	3.487	3.689	8.84
113)	4-Ethyltoluene											

6.7.4

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Initial Calibration Summary

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114)	2.949	3.148	3.081	2.953	2.924	3.076	2.913	3.292	2.705	3.005	5.57
	2-chlorotoluene										
	0.817	0.820	0.874	0.750	0.762	0.813	0.757	0.832	0.802	0.803	5.05
115)	4-chlorotoluene										
	2.374	2.426	2.790	2.213	2.229	2.486	2.250	2.417	2.314	2.389	7.46
116)	1,3,5-trimethylbenzene										
	2.665	2.721	3.343	2.473	2.470	2.800	2.474	2.705	2.592	2.991	10.03
117)	tert-butylbenzene										
	2.208	2.260	2.740	2.052	2.083	2.381	2.065	2.278	2.108	1.987	9.96
118)	pentachloroethane										
	0.543	0.577		0.509	0.535	0.572	0.558	0.567	0.534	0.549	4.25
119)	1,2,4-trimethylbenzene										
	2.678	2.660	3.047	2.488	2.505	2.801	2.490	2.691	2.543	2.988	7.50
120)	sec-butylbenzene										
	3.478	3.542	4.280	3.188	3.194	3.659	3.159	3.562	3.194	3.728	9.95
121)	1,3-dichlorobenzene										
	1.705	1.708	1.756	1.619	1.636	1.711	1.645	1.752	1.660	1.585	3.41
122)	p-isopropyltoluene										
	2.904	2.945	3.263	2.712	2.704	3.104	2.678	2.987	2.773	2.852	6.56
123)	1,4-dichlorobenzene										
	1.727	1.736	1.906	1.641	1.663	1.840	1.665	1.763	1.739	1.742	4.96
124)	1,2-dichlorobenzene										
	1.641	1.619	1.659	1.544	1.580	1.690	1.574	1.634	1.567	1.612	3.01
125)	n-butylbenzene										
	1.513	1.535	1.729	1.410	1.411	1.489	1.395	1.576	1.404	1.496	7.32
126)	p-Diethylbenzene										
	1.649	1.749	1.778	1.658	1.623	1.732	1.617	1.878	1.519	1.689	6.28
127)	1,2-dibromo-3-chloropropane										
	0.189	0.179		0.175	0.185		0.173	0.173	0.151	0.175	7.08
128)	1,3,5-Trichlorobenzene										
	1.369	1.390	1.475	1.305	1.310	1.421	1.312	1.429	1.331	1.386	4.23
129)	1,2,4-trichlorobenzene										
	1.169	1.195	1.162	1.160	1.159	1.188	1.165	1.217	1.112	0.976	5.85
130)	1,2,4,5-tetramethylbenzene										
	2.471	2.612	2.628	2.578	2.538	2.511	2.510	2.823	2.394	2.719	4.82
131)	hexachlorobutadiene										
	0.690	0.703	0.832	0.645	0.639	0.728	0.626	0.721	0.654	0.693	9.22
132)	naphthalene										
	2.433	2.383	2.167	2.389	2.488	2.203	2.381	2.411	2.234	2.343	4.81
133)	1,2,3-trichlorobenzene										
	1.078	1.074	1.047	1.065	1.075	1.082	1.047	1.110	1.043	1.069	1.99
134)	hexachloroethane										
	0.575	0.574	0.628	0.541	0.550	0.589	0.552	0.566	0.538	0.568	4.95
135)	Benzyl chloride										
	1.548	1.657		1.614	1.627	1.714	1.571	1.660	1.485	1.609	4.52

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

MYS6377.M

Wed Jun 25 11:36:43 2014

RPT1

Initial Calibration Verification

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Job Number: JB70517

Sample: VY6377-ICV6377

Account: LANGAN Langan Engineering & Environmental

Lab FileID: Y146748.D

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

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\Y146748.D

Vial: 2

Acq On : 25 Jun 2014 10:14 am

Operator: prashans

Sample : ICV6377-50

Inst : MSY

Misc : MS69208,VY6377,5.0,,,,,1

Multiplr: 1.00

MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\MYS6377.M (RTE Integrator)

Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

Last Update : Wed Jun 25 11:30:58 2014

Response via : Multiple Level Calibration

Min. RRF : 0.000 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	Tert Butyl Alcohol-d9	1.000	1.000	0.0	108	0.00	7.36
2	1,4-dioxane	0.120	0.118	1.7	100	0.00	11.17
3	ETHANOL			-----NA-----			
4	tertiary butyl alcohol	1.324	1.285	2.9	102	0.00	7.47
5 I	pentafluorobenzene	1.000	1.000	0.0	109	0.00	9.52
6	propene			-----NA-----			
7	freon 141b			-----NA-----			
8	freon 142b			-----NA-----			
9	freon 143a			-----NA-----			
10	freon 114			-----NA-----			
11	chlorodifluoromethane	0.325	0.245	24.6	86	0.00	3.97
12	dichlorodifluoromethane	0.380	0.325	14.5	100	0.00	3.95
13	chloromethane	0.535	0.438	18.1	95	0.00	4.27
14	vinyl chloride	0.479	0.409	14.6	98	0.00	4.53
15	1,3-butadiene			-----NA-----			
16	bromomethane	0.343	0.298	13.1	98	0.00	5.18
17	chloroethane	0.221	0.193	12.7	97	0.00	5.36
18	Vinyl Bromide			-----NA-----			
19	trichlorofluoromethane	0.514	0.435	15.4	103	0.00	5.80
20	ethyl ether	0.208	0.198	4.8	107	0.00	6.20
21	2-chloropropane	0.145	0.128	11.7	100	0.00	6.41
22	acrolein	0.079	0.068	13.9	102	-0.01	6.51
23	1,1-dichloroethene	0.529	0.442	16.4	99	0.00	6.63
24	acetone	0.224	0.178	20.5	99	0.00	6.73
25	allyl chloride	0.188	0.167	11.2	100	0.00	7.17
26	acetonitrile	0.030	0.027	10.0	108	0.00	7.21
27	iodomethane	0.668	0.591	11.5	101	0.00	6.93
28	carbon disulfide	1.262	1.020	19.2	99	0.00	7.03
29	1-chloropropane	0.702	0.548	21.9	101	0.00	7.38
30	methylene chloride	0.653	0.514	21.3	100	0.00	7.37
31	methyl acetate	0.054	0.050	7.4	97	0.00	7.17
32	methyl tert butyl ether	1.150	1.015	11.8	101	-0.01	7.66
33	trans-1,2-dichloroethene	0.530	0.456	14.0	101	0.00	7.71
34	di-isopropyl ether	1.375	1.172	14.8	98	0.00	8.23
35	ethyl tert-butyl ether	1.286	1.107	13.9	95	0.00	8.69
36	2-butanone	0.053	0.054	-1.9	109	0.00	9.02
37	1,1-dichloroethane	0.691	0.595	13.9	102	0.00	8.29
38	chloroprene	0.490	0.375	23.5	88	0.00	8.38
39	acrylonitrile	0.127	0.119	6.3	101	0.00	7.74
40	vinyl acetate	0.054	0.059	-9.3	110	-0.01	8.27
41	ethyl acetate	0.057	0.048	15.8	90	0.00	9.01

Initial Calibration Verification

Job Number: JB70517

Sample: VY6377-ICV6377

Account: LANGAN Langan Engineering & Environmental

Lab FileID: Y146748.D

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

42	2,2-dichloropropane	0.539	0.444	17.6	102	0.00	9.02
43	cis-1,2-dichloroethene	0.446	0.379	15.0	102	0.00	9.03
44	propionitrile	0.049	0.048	2.0	102	0.00	9.15
45	bromochloromethane	0.278	0.255	8.3	105	0.00	9.35
46	tetrahydrofuran	0.051	0.046	9.8	102	0.00	9.37
47	chloroform	0.694	0.594	14.4	103	0.00	9.39
48	tert-Butyl Formate	0.260	0.244	6.2	102	0.00	9.41
49	isobutyl alcohol	0.014	0.013	7.1	105	0.00	9.84
50 S	dibromofluoromethane (s)	0.390	0.328	15.9	103	0.00	9.60
51 S	1,2-dichloroethane-d4 (s)	0.413	0.347	16.0	96	0.00	10.02
52	freon 113	0.253	0.218	13.8	100	0.00	6.57
53	methacrylonitrile	0.148	0.138	6.8	106	0.00	9.30
54	1,1,1-trichloroethane	0.539	0.456	15.4	101	0.00	9.62
55	Cyclohexane	0.551	0.443	19.6	99	0.00	9.67
56	2,2,4-trimethylpentane	1.419	0.933	34.2#	89	0.00	10.01
57	tert-amyl methyl ether	1.252	1.104	11.8	99	0.00	10.07
58 I	1,4-difluorobenzene	1.000	1.000	0.0	111	0.00	10.43
59	epichlorohydrin	0.031	0.028	9.7	100	0.00	11.72
60	n-butyl alcohol	0.010	0.010	0.0	103	0.00	10.59
61	carbon tetrachloride	0.399	0.333	16.5	99	0.00	9.81
62	1,1-dichloropropene	0.406	0.336	17.2	99	0.00	9.79
63	hexane	0.414	0.319	22.9	103	0.00	7.97
64	Tert Amyl Alcohol	0.020	0.018	10.0	101	0.00	9.96
65	benzene	1.322	1.104	16.5	101	0.00	10.06
66	heptane	0.245	0.173	29.4	93	0.00	10.18
67	isopropyl acetate	0.130	0.119	8.5	99	0.00	9.98
68	1,2-dichloroethane	0.373	0.350	6.2	104	0.00	10.10
69	trichloroethene	0.321	0.274	14.6	101	0.00	10.77
70	ethyl acrylate	0.379	0.352	7.1	101	0.00	10.78
71	2-nitropropane	0.105	0.090	14.3	97	0.00	11.58
72	2-chloroethyl vinyl ether	0.136	0.120	11.8	95	0.00	11.57
73	methyl methacrylate	0.211	0.197	6.6	104	0.00	11.04
74	1,2-dichloropropane	0.341	0.299	12.3	104	0.00	11.05
75	methylcyclohexane	0.528	0.384	27.3	88	0.00	10.95
76	Tert-amyl ethyl ether	0.784	0.726	7.4	105	0.00	10.89
77	dibromomethane	0.198	0.185	6.6	105	0.00	11.22
78	bromodichloromethane	0.439	0.399	9.1	104	0.00	11.34
79	cis-1,3-dichloropropene	0.555	0.504	9.2	104	0.00	11.79
80 S	toluene-d8 (s)	1.156	0.967	16.3	101	0.00	12.05
81	4-methyl-2-pentanone	0.122	0.115	5.7	103	0.00	11.88
82	toluene	1.422	1.160	18.4	102	0.00	12.12
83	3-methyl-1-butanol	0.009	0.009	0.0	101	0.00	11.91
84	trans-1,3-dichloropropene	0.484	0.456	5.8	104	0.00	12.35
85	ethyl methacrylate	0.400	0.379	5.3	105	0.00	12.31
86	1,1,2-trichloroethane	0.247	0.229	7.3	104	0.00	12.56
87	2-hexanone	0.136	0.127	6.6	98	0.00	12.72
88 I	chlorobenzene-d5	1.000	1.000	0.0	108	0.00	13.56
89	tetrachloroethene	0.427	0.373	12.6	98	0.00	12.69
90	1,3-dichloropropane	0.530	0.494	6.8	103	0.00	12.74
91	butyl acetate	0.243	0.219	9.9	95	0.00	12.78
92	dibromochloromethane	0.414	0.395	4.6	105	0.00	13.00
93	1,2-dibromoethane	0.341	0.325	4.7	104	0.00	13.15
94	3,3-Dimethyl-1-Butanol	0.040	0.037	7.5	98	0.00	12.89
95	n-butyl ether			-----NA-----			
96	chlorobenzene	1.052	0.930	11.6	102	0.00	13.58
97	1,1,1,2-tetrachloroethane	0.379	0.354	6.6	104	0.00	13.65
98	ethylbenzene	1.751	1.484	15.2	101	0.00	13.62
99	m,p-xylene	0.689	0.586	14.9	101	0.00	13.73

Initial Calibration Verification

Page 3 of 3

Job Number: JB70517

Sample: VY6377-ICV6377

Account: LANGAN Langan Engineering & Environmental

Lab FileID: Y146748.D

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

100	o-xylene	1.398	1.220	12.7	101	0.00	14.14
101	styrene	1.105	1.033	6.5	102	0.00	14.16
102	bromoform	0.286	0.278	2.8	105	0.00	14.45
103 I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	106	0.00	15.84
104	isopropylbenzene	3.289	2.801	14.8	101	0.00	14.47
105 S	4-bromofluorobenzene (s)	1.002	0.854	14.8	102	0.00	14.70
106	cis-1,4-dichloro-2-butene	-----NA-----					
107	bromobenzene	0.910	0.855	6.0	103	0.00	14.89
108	cyclohexanone	0.160	0.156	2.5	103	0.00	14.68
109	1,1,2,2-tetrachloroethane	0.916	0.860	6.1	104	0.00	14.82
110	trans-1,4-dichloro-2-bute	0.219	0.212	3.2	104	0.00	14.86
111	1,2,3-trichloropropane	0.199	0.189	5.0	104	0.00	14.89
112	n-propylbenzene	3.689	3.236	12.3	100	0.00	14.88
113	4-Ethyltoluene	3.005	2.694	10.3	97	0.00	14.98
114	2-chlorotoluene	0.803	0.724	9.8	102	0.00	15.04
115	4-chlorotoluene	2.389	2.126	11.0	102	0.00	15.14
116	1,3,5-trimethylbenzene	2.723	2.420	11.1	104	0.00	15.03
117	tert-butylbenzene	2.216	1.957	11.7	101	0.00	15.37
118	pentachloroethane	0.549	0.522	4.9	109	0.00	15.47
119	1,2,4-trimethylbenzene	2.689	2.394	11.0	102	0.00	15.42
120	sec-butylbenzene	3.498	3.042	13.0	101	0.00	15.58
121	1,3-dichlorobenzene	1.678	1.568	6.6	103	0.00	15.78
122	p-isopropyltoluene	2.892	2.583	10.7	101	0.00	15.70
123	1,4-dichlorobenzene	1.742	1.602	8.0	104	0.00	15.87
124	1,2-dichlorobenzene	1.612	1.513	6.1	104	0.00	16.26
125	n-butylbenzene	1.496	1.345	10.1	101	0.00	16.11
126	p-Diethylbenzene	1.689	1.553	8.1	99	0.00	16.08
127	1,2-dibromo-3-chloropropa	0.175	0.170	2.9	103	0.00	17.05
128	1,3,5-Trichlorobenzene	1.373	1.274	7.2	104	0.00	17.20
129	1,2,4-trichlorobenzene	1.151	1.126	2.2	103	0.00	17.84
130	1,2,4,5-tetramethylbenzen	2.579	2.421	6.1	100	0.00	16.86
131	hexachlorobutadiene	0.693	0.613	11.5	101	0.00	17.93
132	naphthalene	2.343	2.351	-0.3	104	0.00	18.12
133	1,2,3-trichlorobenzene	1.069	1.036	3.1	103	0.00	18.37
134	hexachloroethane	0.568	0.514	9.5	101	0.00	16.50
135	Benzyl chloride	1.609	1.564	2.8	103	0.00	15.99

(#) = Out of Range

Y146740.D MYS6377.M

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

Wed Jun 25 11:40:23 2014 RPT1

6.7.5

6

Continuing Calibration Summary

Page 1 of 3

Job Number: JB70517

Sample: VY6385-CC6377

Account: LANGAN Langan Engineering & Environmental

Lab FileID: Y146908.D

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

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\Y146908.D

Vial: 2

Acq On : 1 Jul 2014 3:50 pm

Operator: prashans

Sample : CC6377-20

Inst : MSY

Misc : MS69889,VY6385,5.0,,,,,1

Multiplr: 1.00

MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\MYS6377.M (RTE Integrator)

Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

Last Update : Wed Jun 25 11:30:58 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	111	0.00	7.35
2	1,4-dioxane	0.120	0.121	-0.8	117	0.00	11.18
3	ETHANOL			-----NA-----			
4	tertiary butyl alcohol	1.324	1.413	-6.7	120	0.00	7.47
5 I	pentafluorobenzene	1.000	1.000	0.0	104	0.00	9.52
6	propene			-----NA-----			
7	freon 141b			-----NA-----			
8	freon 142b			-----NA-----			
9	freon 143a			-----NA-----			
10	freon 114			-----NA-----			
11	chlorodifluoromethane	0.325	0.423	-30.2#	118	0.00	3.97
12	dichlorodifluoromethane	0.380	0.372	2.1	91	0.00	3.95
13	chloromethane	0.535	0.500	6.5	92	-0.01	4.27
14	vinyl chloride	0.479	0.470	1.9	94	-0.02	4.51
15	1,3-butadiene			-----NA-----			
16	bromomethane	0.343	0.341	0.6	96	0.00	5.19
17	chloroethane	0.221	0.222	-0.5	96	0.00	5.36
18	Vinyl Bromide			-----NA-----			
19	trichlorofluoromethane	0.514	0.516	-0.4	98	0.00	5.80
20	ethyl ether	0.208	0.223	-7.2	108	0.00	6.20
21	2-chloropropane	0.145	0.173	-19.3	112	0.01	6.42
22	acrolein	0.079	0.084	-6.3	116	0.00	6.52
23	1,1-dichloroethene	0.529	0.607	-14.7	114	0.00	6.63
24	acetone	0.224	0.241	-7.6	107	0.00	6.74
25	allyl chloride	0.188	0.216	-14.9	125	0.00	7.17
26	acetonitrile	0.030	0.034	-13.3	128	0.00	7.22
27	iodomethane	0.668	0.750	-12.3	109	0.00	6.93
28	carbon disulfide	1.262	1.397	-10.7	112	0.00	7.03
29	1-chloropropane	0.702	0.811	-15.5	114	0.00	7.38
30	methylene chloride	0.653	0.628	3.8	99	0.00	7.38
31	methyl acetate	0.054	0.060	-11.1	115	0.00	7.18
32	methyl tert butyl ether	1.150	1.236	-7.5	109	0.00	7.66
33	trans-1,2-dichloroethene	0.530	0.604	-14.0	112	0.00	7.72
34	di-isopropyl ether	1.375	1.449	-5.4	106	0.00	8.23
35	ethyl tert-butyl ether	1.286	1.341	-4.3	103	0.00	8.70
36	2-butanone	0.053	0.063	-18.9	117	0.00	9.02
37	1,1-dichloroethane	0.691	0.774	-12.0	112	0.00	8.30
38	chloroprene	0.490	0.561	-14.5	109	0.00	8.38
39	acrylonitrile	0.127	0.147	-15.7	114	0.00	7.75
40	vinyl acetate	0.054	0.060	-11.1	110	0.00	8.28
41	ethyl acetate	0.057	0.059	-3.5	100	0.00	9.02

Continuing Calibration Summary

Job Number: JB70517

Sample: VY6385-CC6377

Account: LANGAN Langan Engineering & Environmental

Lab FileID: Y146908.D

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

42	2,2-dichloropropane	0.539	0.593	-10.0	109	0.00	9.02
43	cis-1,2-dichloroethene	0.446	0.472	-5.8	107	0.00	9.03
44	propionitrile	0.049	0.061	-24.5#	121	0.00	9.15
45	bromochloromethane	0.278	0.301	-8.3	110	0.00	9.35
46	tetrahydrofuran	0.051	0.059	-15.7	126	0.01	9.38
47	chloroform	0.694	0.745	-7.3	110	0.00	9.40
48	tert-Butyl Formate	0.260	0.253	2.7	97	0.00	9.41
49	isobutyl alcohol	0.014	0.015	-7.1	125	0.00	9.85
50 S	dibromofluoromethane (s)	0.390	0.381	2.3	99	0.00	9.60
51 S	1,2-dichloroethane-d4 (s)	0.413	0.393	4.8	97	0.00	10.02
52	freon 113	0.253	0.298	-17.8	110	0.00	6.57
53	methacrylonitrile	0.148	0.163	-10.1	117	0.00	9.31
54	1,1,1-trichloroethane	0.539	0.606	-12.4	109	0.00	9.62
55	Cyclohexane	0.551	0.603	-9.4	108	0.00	9.66
56	2,2,4-trimethylpentane	1.419	1.552	-9.4	104	0.00	10.01
57	tert-amyl methyl ether	1.252	1.298	-3.7	104	0.00	10.07
58 I	1,4-difluorobenzene	1.000	1.000	0.0	102	0.00	10.44
59	epichlorohydrin	0.031	0.035	-12.9	116	0.00	11.72
60	n-butyl alcohol	0.010	0.012	-20.0	124	0.00	10.60
61	carbon tetrachloride	0.399	0.450	-12.8	110	0.00	9.81
62	1,1-dichloropropene	0.406	0.466	-14.8	110	0.00	9.80
63	hexane	0.414	0.458	-10.6	102	0.00	7.97
64	Tert Amyl Alcohol			-----NA-----			
65	benzene	1.322	1.446	-9.4	109	0.00	10.06
66	heptane	0.245	0.276	-12.7	103	0.00	10.18
67	isopropyl acetate	0.130	0.153	-17.7	112	0.00	9.98
68	1,2-dichloroethane	0.373	0.436	-16.9	113	0.00	10.11
69	trichloroethene	0.321	0.363	-13.1	111	0.00	10.77
70	ethyl acrylate			-----NA-----			
71	2-nitropropane	0.105	0.108	-2.9	109	0.00	11.58
72	2-chloroethyl vinyl ether	0.136	0.100	26.5#	72	0.00	11.57
73	methyl methacrylate	0.211	0.235	-11.4	112	0.00	11.05
74	1,2-dichloropropane	0.341	0.374	-9.7	108	0.00	11.05
75	methylcyclohexane	0.528	0.562	-6.4	100	0.00	10.95
76	Tert-amyl ethyl ether			-----NA-----			
77	dibromomethane	0.198	0.219	-10.6	109	0.00	11.22
78	bromodichloromethane	0.439	0.491	-11.8	110	0.00	11.34
79	cis-1,3-dichloropropene	0.555	0.614	-10.6	108	0.00	11.79
80 S	toluene-d8 (s)	1.156	1.211	-4.8	103	0.00	12.06
81	4-methyl-2-pentanone	0.122	0.139	-13.9	115	0.00	11.88
82	toluene	1.422	1.502	-5.6	108	0.00	12.13
83	3-methyl-1-butanol	0.009	0.010	-11.1	115	0.00	11.91
84	trans-1,3-dichloropropene	0.484	0.541	-11.8	107	0.00	12.35
85	ethyl methacrylate	0.400	0.443	-10.7	109	0.00	12.32
86	1,1,2-trichloroethane	0.247	0.275	-11.3	109	0.00	12.56
87	2-hexanone	0.136	0.168	-23.5#	116	0.00	12.72
88 I	chlorobenzene-d5	1.000	1.000	0.0	99	0.00	13.56
89	tetrachloroethene	0.427	0.480	-12.4	108	0.00	12.69
90	1,3-dichloropropane	0.530	0.591	-11.5	107	0.00	12.74
91	butyl acetate	0.243	0.268	-10.3	102	0.00	12.78
92	dibromochloromethane	0.414	0.461	-11.4	108	0.00	13.00
93	1,2-dibromoethane	0.341	0.392	-15.0	111	0.00	13.15
94	3,3-Dimethyl-1-Butanol	0.040	0.046	-15.0	117	0.00	12.89
95	n-butyl ether			-----NA-----			
96	chlorobenzene	1.052	1.151	-9.4	106	0.00	13.58
97	1,1,1,2-tetrachloroethane	0.379	0.425	-12.1	107	0.00	13.65
98	ethylbenzene	1.751	1.893	-8.1	106	0.00	13.62
99	m,p-xylene	0.689	0.741	-7.5	106	0.00	13.73

Continuing Calibration Summary

Page 3 of 3

Job Number: JB70517

Account: LANGAN Langan Engineering & Environmental

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

Sample: VY6385-CC6377

Lab FileID: Y146908.D

100	o-xylene	1.398	1.524	-9.0	107	0.00	14.14
101	styrene	1.105	1.232	-11.5	104	0.00	14.16
102	bromoform	0.286	0.317	-10.8	107	0.00	14.45
103 I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	96	0.00	15.84
104	isopropylbenzene	3.289	3.534	-7.4	105	0.00	14.47
105 S	4-bromofluorobenzene (s)	1.002	0.955	4.7	95	0.00	14.70
106	cis-1,4-dichloro-2-butene			-----NA-----			
107	bromobenzene	0.910	1.014	-11.4	105	0.00	14.89
108	cyclohexanone	0.160	0.213	-33.1#	126	0.00	14.68
109	1,1,2,2-tetrachloroethane	0.916	1.038	-13.3	111	0.00	14.82
110	trans-1,4-dichloro-2-bute	0.219	0.260	-18.7	111	0.00	14.85
111	1,2,3-trichloropropane	0.199	0.229	-15.1	115	0.00	14.89
112	n-propylbenzene	3.689	4.158	-12.7	106	0.00	14.88
113	4-Ethyltoluene			-----NA-----			
114	2-chlorotoluene	0.803	0.901	-12.2	104	0.00	15.04
115	4-chlorotoluene	2.389	2.596	-8.7	103	0.00	15.14
116	1,3,5-trimethylbenzene	2.723	2.972	-9.1	105	0.00	15.03
117	tert-butylbenzene	2.216	2.450	-10.6	103	0.00	15.37
118	pentachloroethane	0.549	0.615	-12.0	104	0.00	15.47
119	1,2,4-trimethylbenzene	2.689	2.916	-8.4	104	0.00	15.42
120	sec-butylbenzene	3.498	3.842	-9.8	103	0.00	15.58
121	1,3-dichlorobenzene	1.678	1.882	-12.2	103	0.00	15.78
122	p-isopropyltoluene	2.892	3.217	-11.2	103	0.00	15.70
123	1,4-dichlorobenzene	1.742	1.887	-8.3	102	0.00	15.87
124	1,2-dichlorobenzene	1.612	1.770	-9.8	104	0.00	16.27
125	n-butylbenzene	1.496	1.637	-9.4	99	0.00	16.11
126	p-Diethylbenzene			-----NA-----			
127	1,2-dibromo-3-chloropropa	0.175	0.197	-12.6	109	0.00	17.05
128	1,3,5-Trichlorobenzene	1.373	1.553	-13.1	104	0.00	17.20
129	1,2,4-trichlorobenzene	1.151	1.336	-16.1	105	0.00	17.84
130	1,2,4,5-tetramethylbenzen			-----NA-----			
131	hexachlorobutadiene	0.693	0.795	-14.7	105	0.00	17.93
132	naphthalene	2.343	2.749	-17.3	109	0.00	18.12
133	1,2,3-trichlorobenzene	1.069	1.231	-15.2	106	0.00	18.37
134	hexachloroethane	0.568	0.632	-11.3	107	0.00	16.50
135	Benzyl chloride	1.609	1.789	-11.2	103	0.00	15.99

(#) = Out of Range

Y146739.D MYS6377.M

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

Wed Jul 02 08:30:38 2014 RPT1

GC/MS Volatiles

Raw Data

7

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : Y146913.D
Acq On : 1 Jul 2014 6:45 pm
Operator : prashans
Sample : JB70517-1
Misc : MS69998,VY6385,5.5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 02 08:32:34 2014
Quant Method : C:\MSDCHEM\1\METHODS\MYS6377.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Wed Jun 25 11:30:58 2014
Response via : Initial Calibration

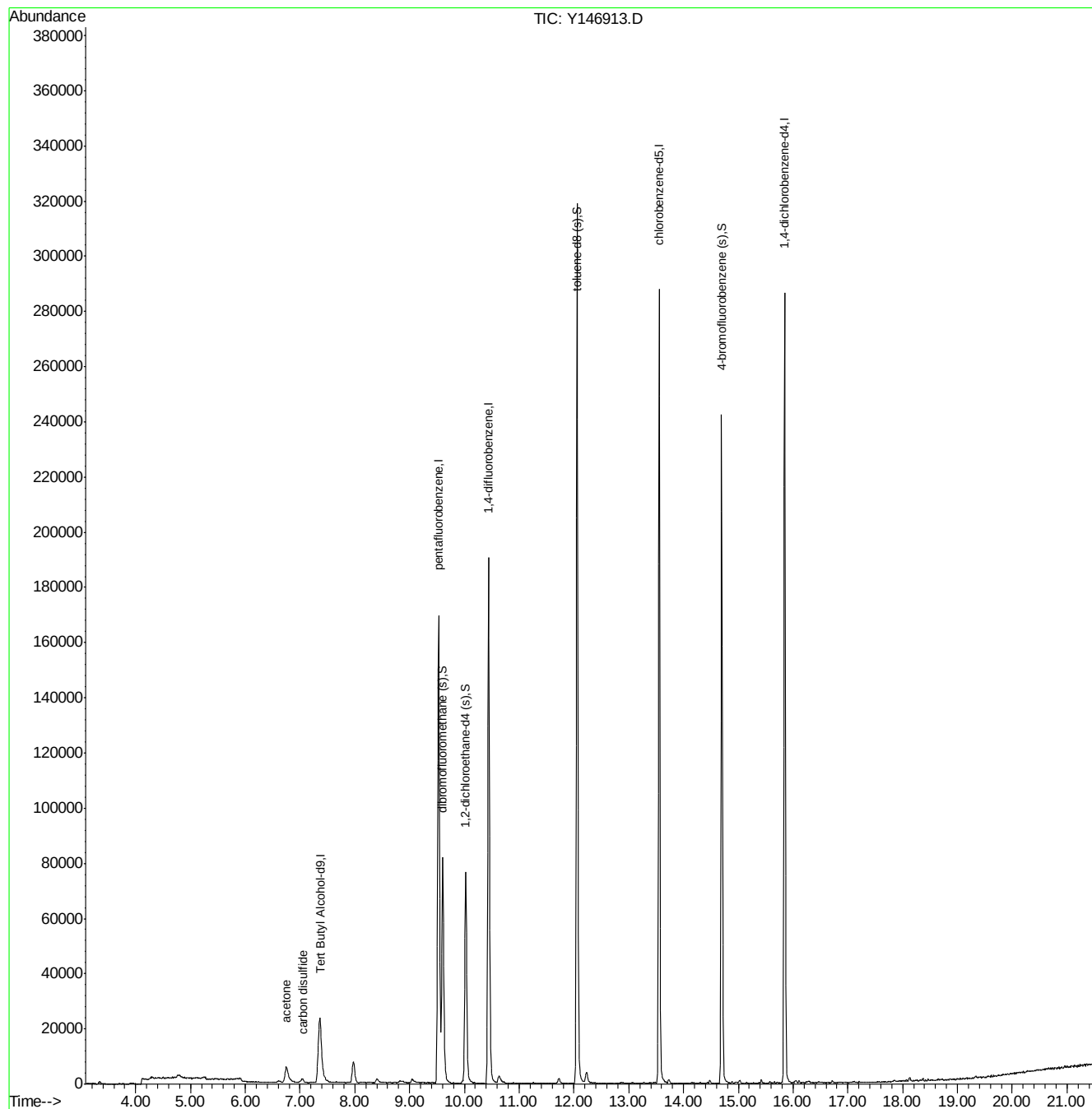
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.36	65	61834	500.00	ug/L	0.00
5) pentafluorobenzene	9.53	168	165616	50.00	ug/L	0.00
58) 1,4-difluorobenzene	10.44	114	197888	50.00	ug/L	0.00
88) chlorobenzene-d5	13.56	117	169610	50.00	ug/L	0.00
103) 1,4-dichlorobenzene-d4	15.85	152	82733	50.00	ug/L	0.00
System Monitoring Compounds						
50) dibromofluoromethane (s)	9.61	113	64827	50.15	ug/L	0.00
Spiked Amount 50.000	Range 59 - 130		Recovery =	100.30%		
51) 1,2-dichloroethane-d4 (s)	10.02	65	64980	47.55	ug/L	0.00
Spiked Amount 50.000	Range 65 - 123		Recovery =	95.10%		
80) toluene-d8 (s)	12.06	98	242586	53.01	ug/L	0.00
Spiked Amount 50.000	Range 77 - 125		Recovery =	106.02%		
105) 4-bromofluorobenzene (s)	14.70	95	81976	49.46	ug/L	0.00
Spiked Amount 50.000	Range 71 - 132		Recovery =	98.92%		
Target Compounds						
24) acetone	6.75	43	17227	23.21	ug/L	100
28) carbon disulfide	7.04	76	3501	0.84	ug/L	87

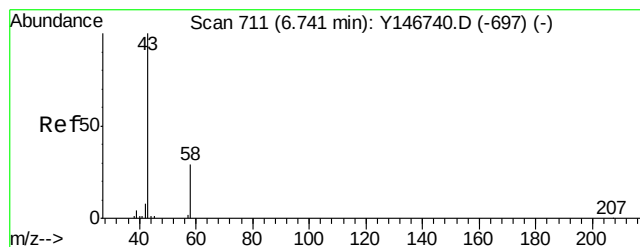
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : Y146913.D
Acq On : 1 Jul 2014 6:45 pm
Operator : prashans
Sample : JB70517-1
Misc : MS69998,VY6385,5.5,,,,,1
ALS Vial : 7 Sample Multiplier: 1

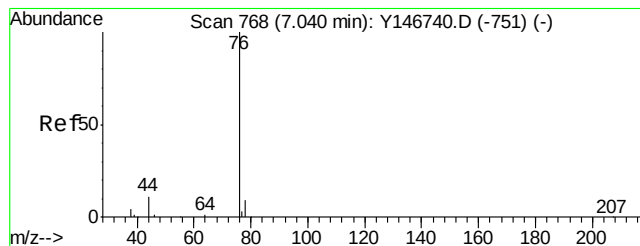
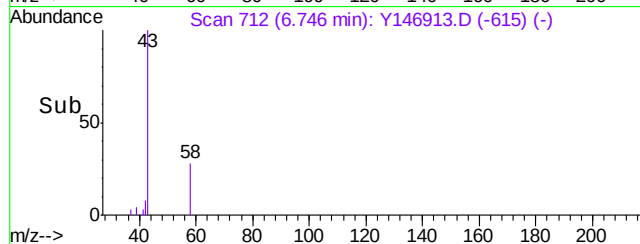
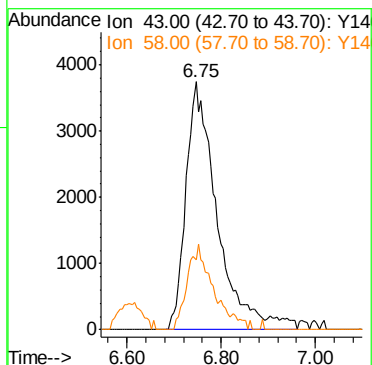
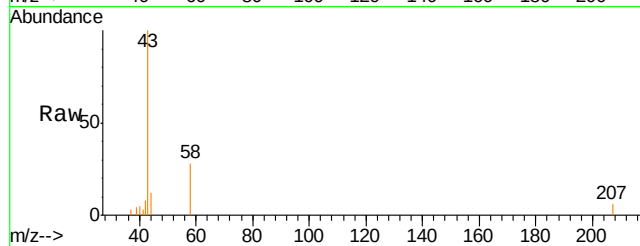
Quant Time: Jul 02 08:32:34 2014
Quant Method : C:\MSDCHEM\1\METHODS\MYS6377.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Wed Jun 25 11:30:58 2014
Response via : Initial Calibration





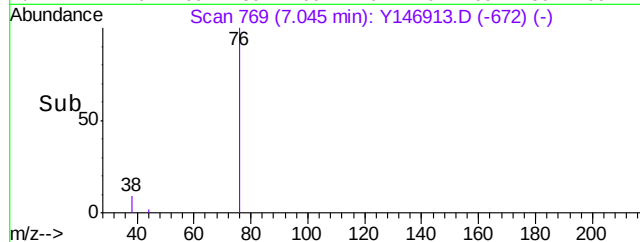
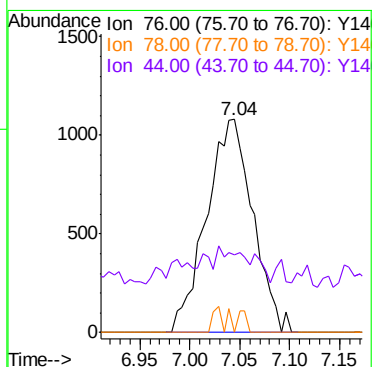
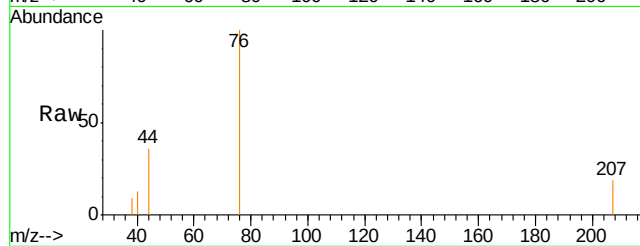
#24
acetone
Concen: 23.21 ug/L
RT: 6.75 min Scan# 712
Delta R.T. 0.01 min
Lab File: Y146913.D
Acq: 1 Jul 2014 6:45 pm

Tgt Ion: 43 Resp: 17227
Ion Ratio Lower Upper
43 100
58 28.2 0.0 58.3



#28
carbon disulfide
Concen: 0.84 ug/L
RT: 7.04 min Scan# 769
Delta R.T. 0.01 min
Lab File: Y146913.D
Acq: 1 Jul 2014 6:45 pm

Tgt Ion: 76 Resp: 3501
Ion Ratio Lower Upper
76 100
78 0.0 0.0 39.1
44 9.9 0.0 41.1



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : Y146914.D
 Acq On : 1 Jul 2014 7:14 pm
 Operator : prashans
 Sample : JB70517-2
 Misc : MS69998,VY6385,4.9,,,,1
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 02 08:36:03 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MYS6377.M
 Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Wed Jun 25 11:30:58 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.36	65	71596	500.00	ug/L	0.00
5) pentafluorobenzene	9.53	168	173425	50.00	ug/L	0.00
58) 1,4-difluorobenzene	10.44	114	207938	50.00	ug/L	0.00
88) chlorobenzene-d5	13.56	117	174308	50.00	ug/L	0.00
103) 1,4-dichlorobenzene-d4	15.85	152	82761	50.00	ug/L	0.00

System Monitoring Compounds

50) dibromofluoromethane (s)	9.60	113	69295	51.19	ug/L	0.00
Spiked Amount 50.000	Range 59 - 130		Recovery =	102.38%		
51) 1,2-dichloroethane-d4 (s)	10.03	65	70324	49.15	ug/L	0.00
Spiked Amount 50.000	Range 65 - 123		Recovery =	98.30%		
80) toluene-d8 (s)	12.06	98	251375	52.27	ug/L	0.00
Spiked Amount 50.000	Range 77 - 125		Recovery =	104.54%		
105) 4-bromofluorobenzene (s)	14.70	95	83965	50.64	ug/L	0.00
Spiked Amount 50.000	Range 71 - 132		Recovery =	101.28%		

Target Compounds

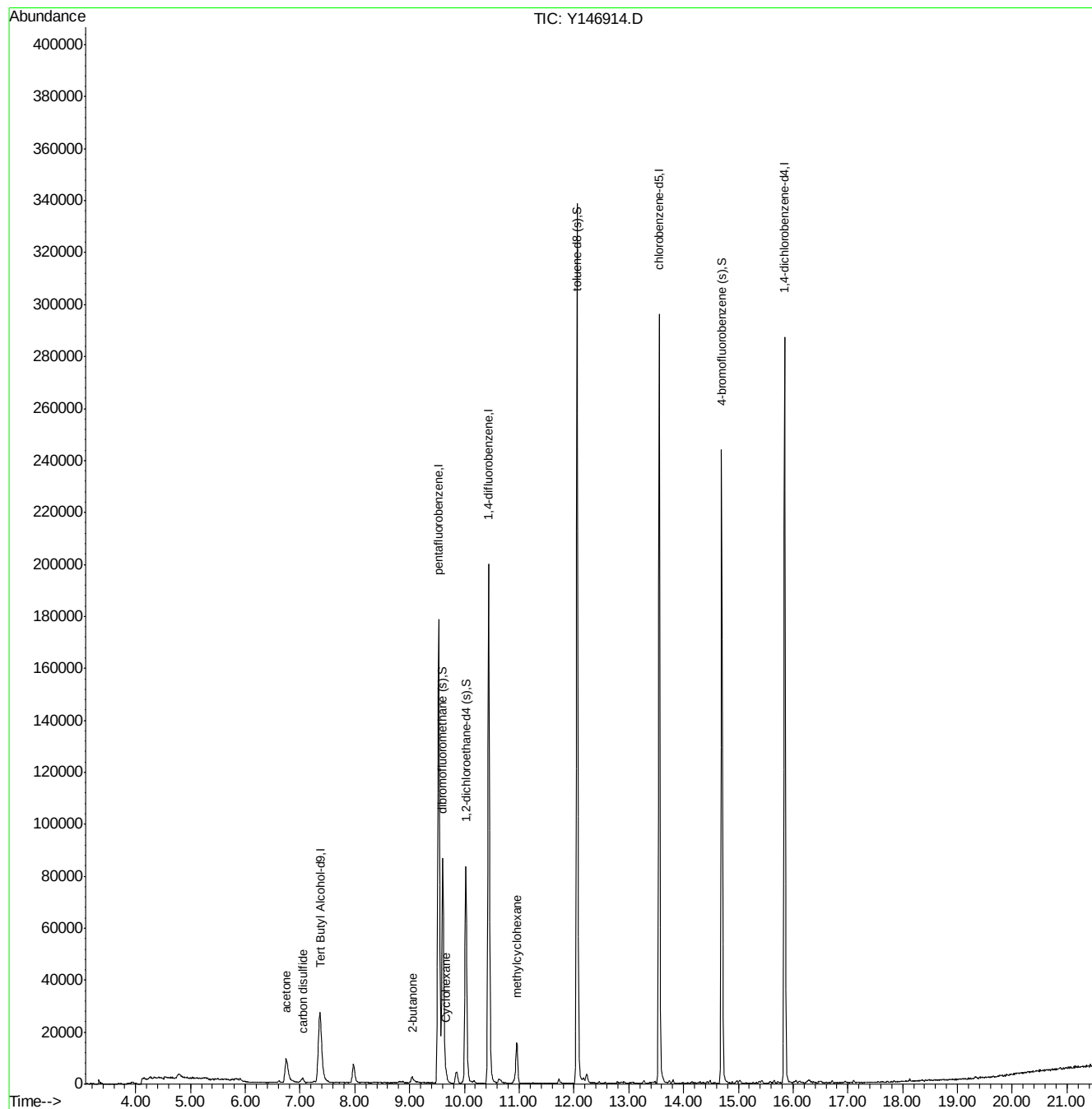
					Qvalue
24) acetone	6.75	43	26600	34.22	ug/L 97
28) carbon disulfide	7.04	76	4376	1.00	ug/L 89
36) 2-butanone	9.05	72	1229	6.66	ug/L # 1
55) Cyclohexane	9.66	84	1333	0.70	ug/L # 80
75) methylcyclohexane	10.96	83	8545	3.89	ug/L 93

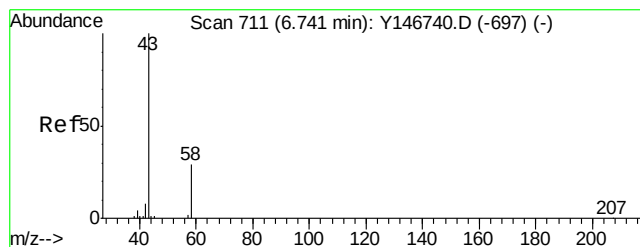
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : Y146914.D
Acq On : 1 Jul 2014 7:14 pm
Operator : prashans
Sample : JB70517-2
Misc : MS69998,VY6385,4.9,,,,,1
ALS Vial : 8 Sample Multiplier: 1

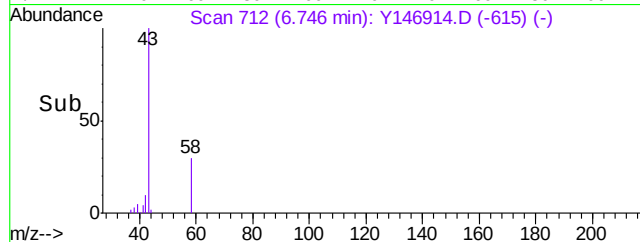
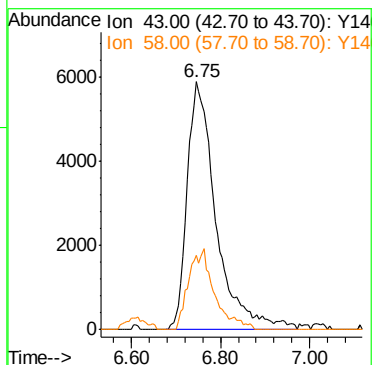
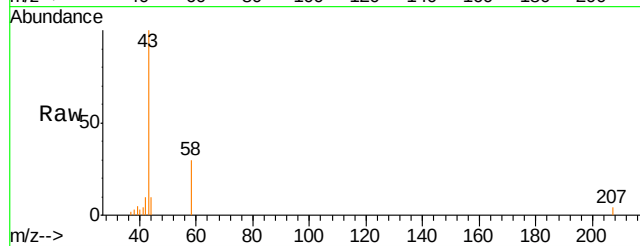
Quant Time: Jul 02 08:36:03 2014
Quant Method : C:\MSDCHEM\1\METHODS\MYS6377.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Wed Jun 25 11:30:58 2014
Response via : Initial Calibration





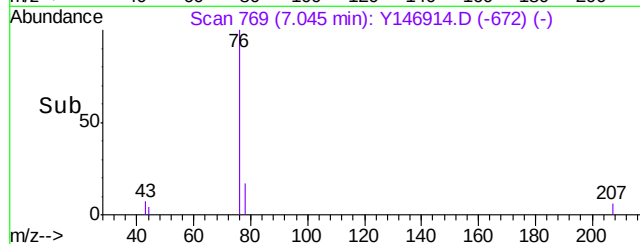
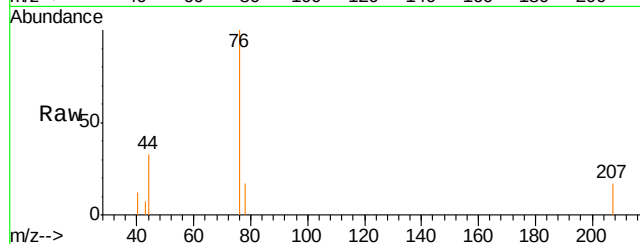
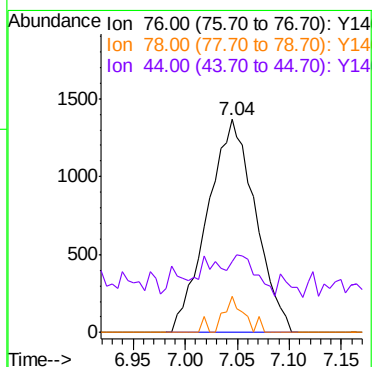
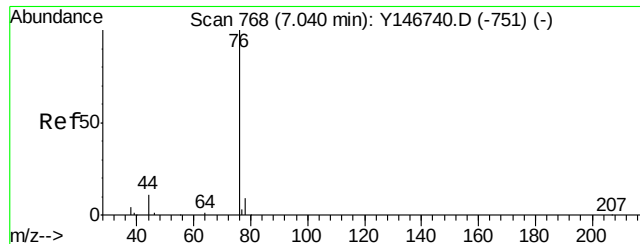
#24
acetone
Concen: 34.22 ug/L
RT: 6.75 min Scan# 712
Delta R.T. 0.01 min
Lab File: Y146914.D
Acq: 1 Jul 2014 7:14 pm

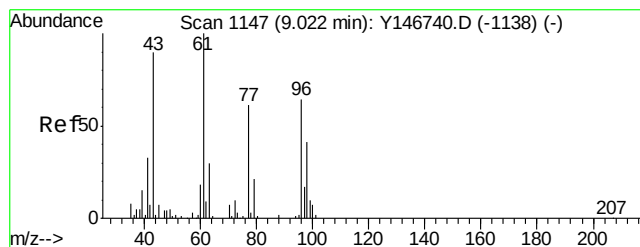
Tgt Ion	Ratio	Lower	Upper
43	100		
58	30.1	0.0	58.3



#28
carbon disulfide
Concen: 1.00 ug/L
RT: 7.04 min Scan# 769
Delta R.T. 0.01 min
Lab File: Y146914.D
Acq: 1 Jul 2014 7:14 pm

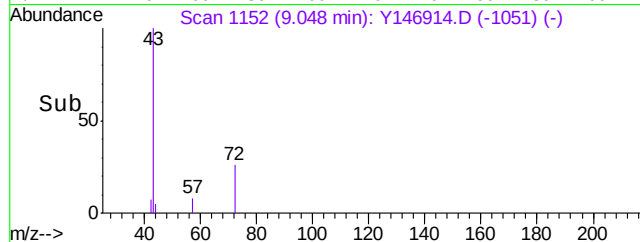
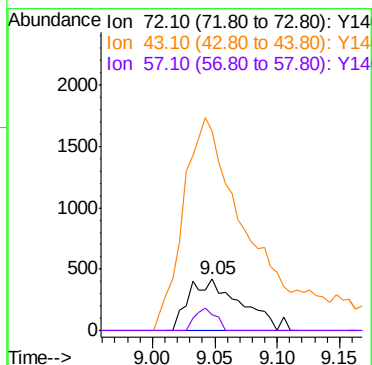
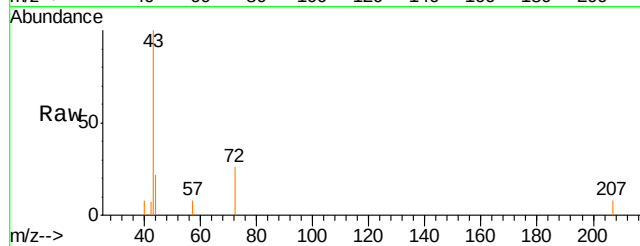
Tgt Ion	Ratio	Lower	Upper
76	100		
78	16.9	0.0	39.1
44	12.0	0.0	41.1





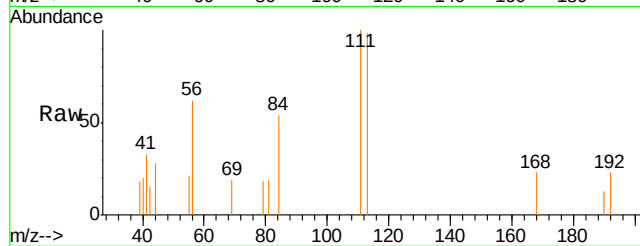
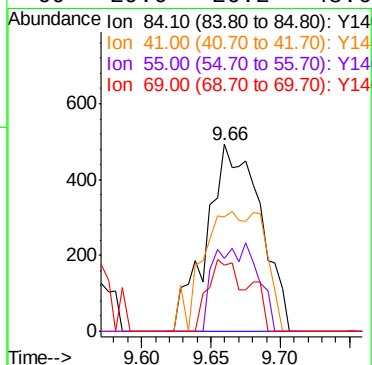
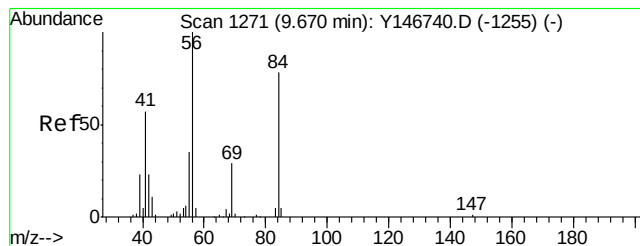
#36
2-butanone
Concen: 6.66 ug/L
RT: 9.05 min Scan# 1152
Delta R.T. 0.03 min
Lab File: Y146914.D
Acq: 1 Jul 2014 7:14 pm

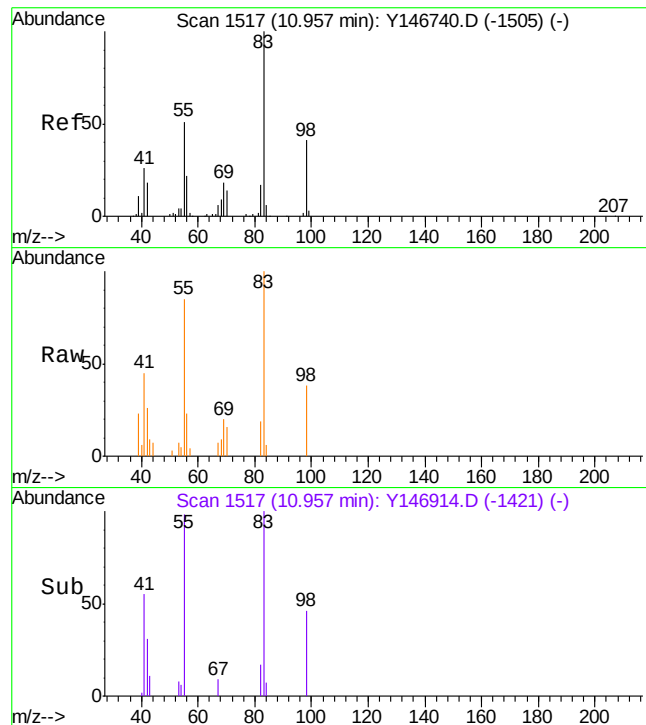
Tgt Ion	Ratio	Lower	Upper
72	100		
43	565.7	747.4	1388.0#
57	0.0	31.6	58.6#



#55
Cyclohexane
Concen: 0.70 ug/L
RT: 9.66 min Scan# 1269
Delta R.T. -0.01 min
Lab File: Y146914.D
Acq: 1 Jul 2014 7:14 pm

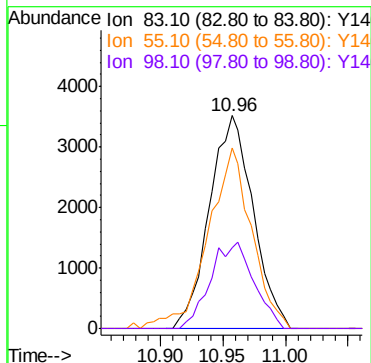
Tgt Ion	Ratio	Lower	Upper
84	100		
41	74.3	0.0	0.0#
55	38.0	38.5	71.5#
69	29.0	26.2	48.6





#75
methylcyclohexane
Concen: 3.89 ug/L
RT: 10.96 min Scan# 1517
Delta R.T. -0.00 min
Lab File: Y146914.D
Acq: 1 Jul 2014 7:14 pm

Tgt Ion:	83	Resp:	8545
Ion Ratio	Lower	Upper	
83	100		
55	85.0	47.9	107.9
98	38.0	11.4	71.4



7.1.2
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 4d49961.D
 Acq On : 3 Jul 2014 5:11 pm
 Operator : PayalR
 Sample : jB70517-3
 Misc : MS69993,V4D2227,5,,,,,1
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 07 08:31:47 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M4D2197.M
 Quant Title : SW-846 Method 8260B/8260C
 QLast Update : Fri Jun 13 18:12:09 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.993	65	82160	500.00	ug/L	0.00
4) pentafluorobenzene	9.583	168	184879	50.00	ug/L	0.00
51) 1,4-difluorobenzene	10.542	114	234030	50.00	ug/L	0.00
83) chlorobenzene-d5	13.914	117	216994	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	16.341	152	114377	50.00	ug/L	0.00
System Monitoring Compounds						
45) dibromofluoromethane (s)	9.567	113	93486	47.58	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery =	95.16%		
46) 1,2-dichloroethane-d4 (s)	10.018	65	114742	56.35	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery =	112.70%		
75) toluene-d8 (s)	12.299	98	305071	48.06	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery =	96.12%		
100) 4-bromofluorobenzene (s)	15.151	95	122122	42.04	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery =	84.08%		
Target Compounds						
19) acetone	6.295	43	3084	4.24	ug/L	87
25) methylene chloride	7.014	84	1970	0.83	ug/L #	73

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

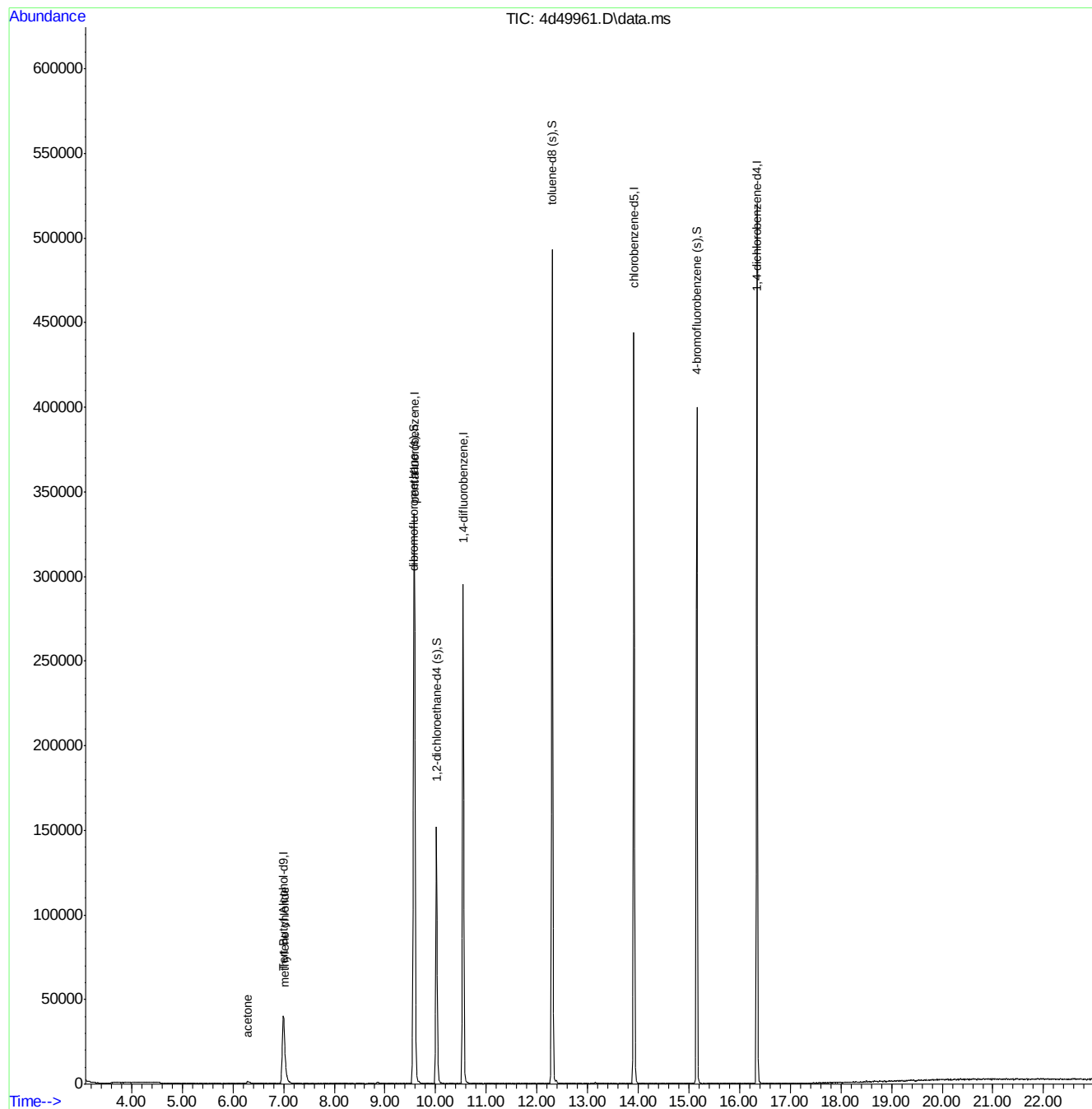
7.1.3

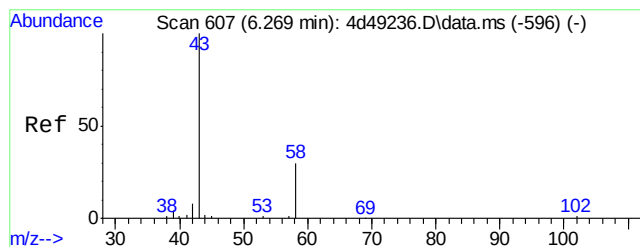
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 4d49961.D
Acq On : 3 Jul 2014 5:11 pm
Operator : PayalR
Sample : jb70517-3
Misc : MS69993,V4D2227,5,,,,1
ALS Vial : 16 Sample Multiplier: 1

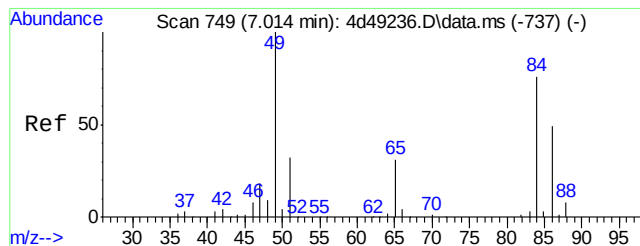
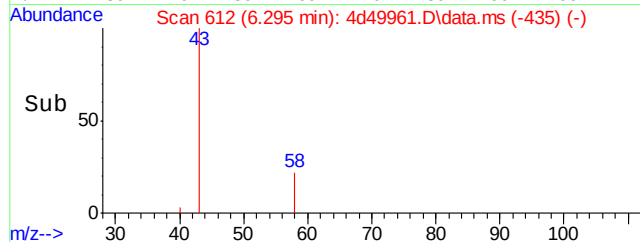
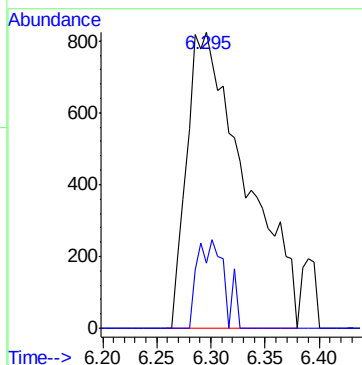
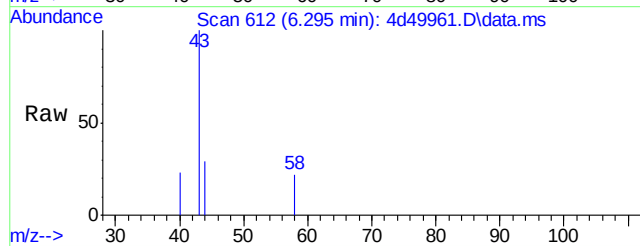
Quant Time: Jul 07 08:31:47 2014
Quant Method : C:\MSDCHEM\1\METHODS\M4D2197.M
Quant Title : SW-846 Method 8260B/8260C
QLast Update : Fri Jun 13 18:12:09 2014
Response via : Initial Calibration





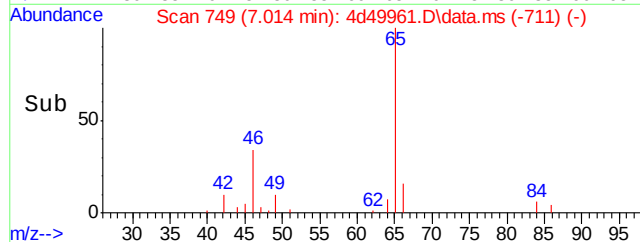
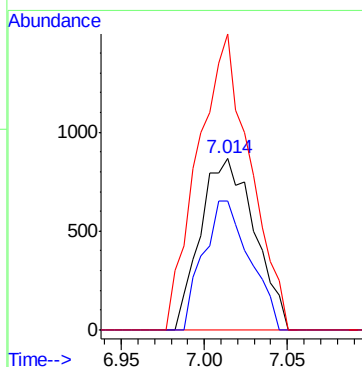
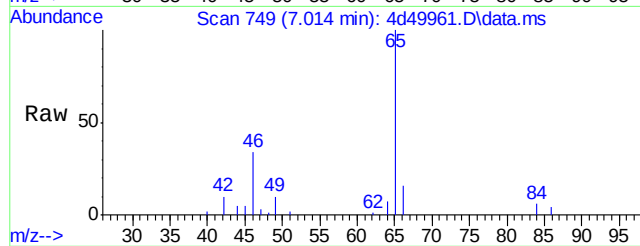
#19
acetone
Concen: 4.24 ug/L
RT: 6.295 min Scan# 612
Delta R.T. 0.026 min
Lab File: 4d49961.D
Acq: 3 Jul 2014 5:11 pm

Tgt Ion: 43 Resp: 3084
Ion Ratio Lower Upper
43 100
58 22.1 0.0 59.2



#25
methylene chloride
Concen: 0.83 ug/L
RT: 7.014 min Scan# 749
Delta R.T. -0.000 min
Lab File: 4d49961.D
Acq: 3 Jul 2014 5:11 pm

Tgt Ion: 84 Resp: 1970
Ion Ratio Lower Upper
84 100
86 74.9 45.7 84.9
49 172.2 92.7 172.1#



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 4d49962.D
 Acq On : 3 Jul 2014 5:39 pm
 Operator : PayalR
 Sample : jB70517-4
 Misc : MS69993,V4D2227,5,,,,,1
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jul 07 08:32:31 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M4D2197.M
 Quant Title : SW-846 Method 8260B/8260C
 QLast Update : Fri Jun 13 18:12:09 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.993	65	84045	500.00	ug/L	0.00
4) pentafluorobenzene	9.583	168	191044	50.00	ug/L	0.00
51) 1,4-difluorobenzene	10.542	114	243614	50.00	ug/L	0.00
83) chlorobenzene-d5	13.914	117	226827	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	16.341	152	121189	50.00	ug/L	0.00
System Monitoring Compounds						
45) dibromofluoromethane (s)	9.562	113	96924	47.74	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery =	95.48%		
46) 1,2-dichloroethane-d4 (s)	10.018	65	120973	57.50	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery =	115.00%		
75) toluene-d8 (s)	12.299	98	316358	47.88	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery =	95.76%		
100) 4-bromofluorobenzene (s)	15.156	95	128230	41.66	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery =	83.32%		
Target Compounds						
19) acetone	6.306	43	3084	4.10	ug/L	87
25) methylene chloride	7.014	84	1920	0.78	ug/L	88

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

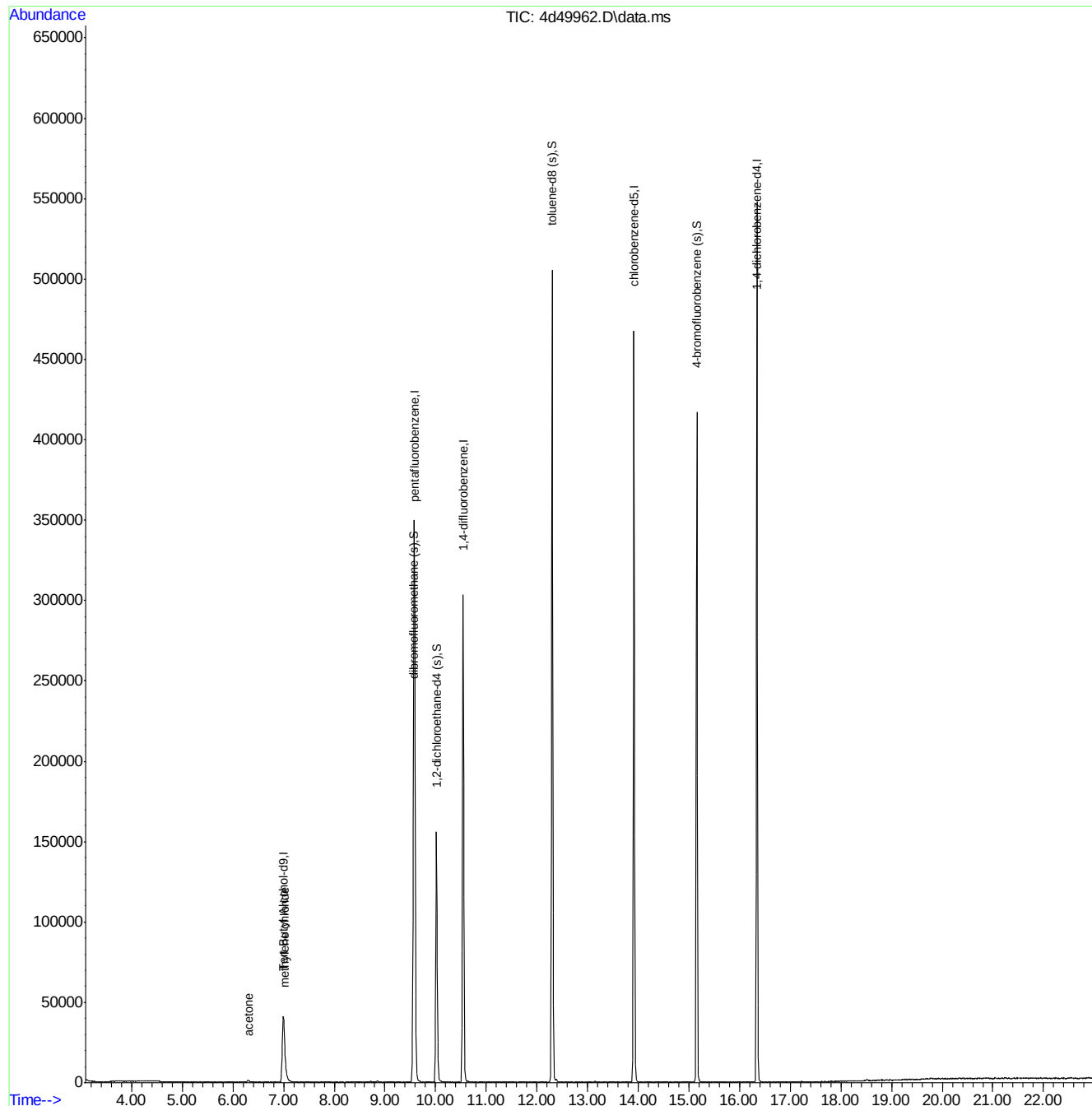
7.1.4

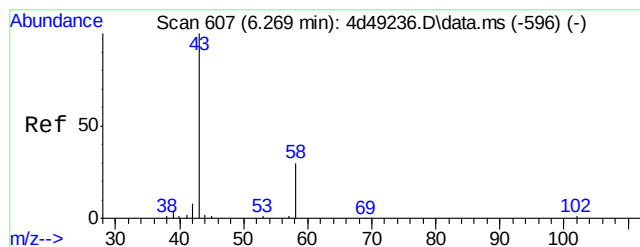
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 4d49962.D
 Acq On : 3 Jul 2014 5:39 pm
 Operator : PayalR
 Sample : jb70517-4
 Misc : MS69993,V4D2227,5,,,,1
 ALS Vial : 17 Sample Multiplier: 1

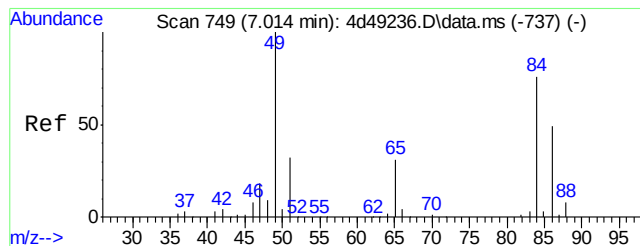
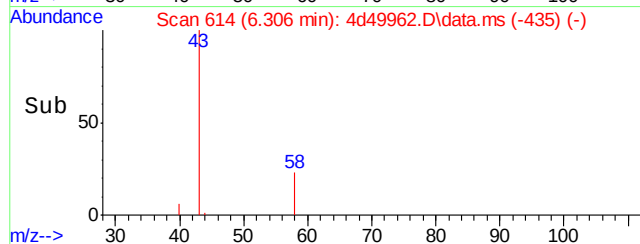
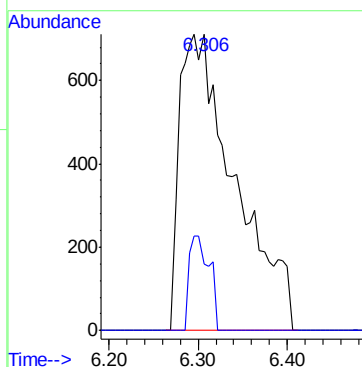
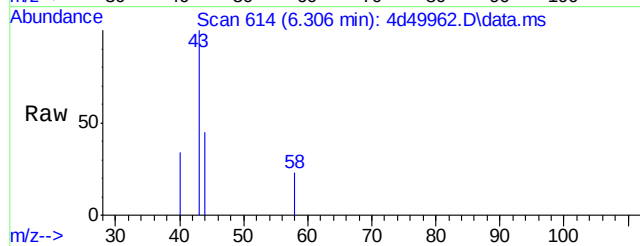
Quant Time: Jul 07 08:32:31 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M4D2197.M
 Quant Title : SW-846 Method 8260B/8260C
 QLast Update : Fri Jun 13 18:12:09 2014
 Response via : Initial Calibration





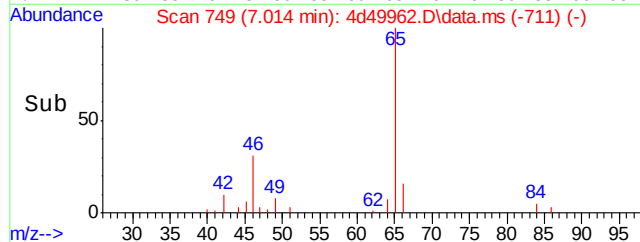
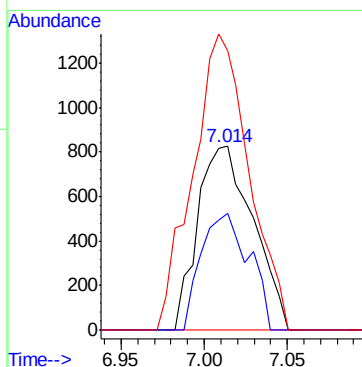
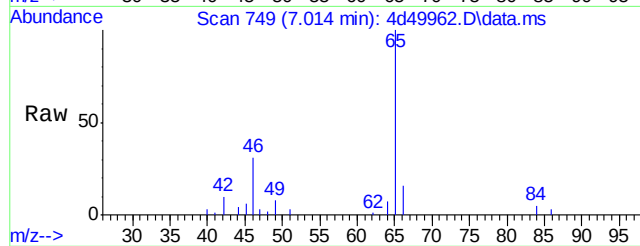
#19
acetone
Concen: 4.10 ug/L
RT: 6.306 min Scan# 614
Delta R.T. 0.037 min
Lab File: 4d49962.D
Acq: 3 Jul 2014 5:39 pm

Tgt Ion: 43 Resp: 3084
Ion Ratio Lower Upper
43 100
58 22.5 0.0 59.2



#25
methylene chloride
Concen: 0.78 ug/L
RT: 7.014 min Scan# 749
Delta R.T. -0.000 min
Lab File: 4d49962.D
Acq: 3 Jul 2014 5:39 pm

Tgt Ion: 84 Resp: 1920
Ion Ratio Lower Upper
84 100
86 63.8 45.7 84.9
49 152.4 92.7 172.1



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 4d49963.D
Acq On : 3 Jul 2014 6:06 pm
Operator : PayalR
Sample : jB70517-5
Misc : MS69993,V4D2227,5,,,,1
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jul 07 08:34:27 2014
Quant Method : C:\MSDCHEM\1\METHODS\M4D2197.M
Quant Title : SW-846 Method 8260B/8260C
QLast Update : Fri Jun 13 18:12:09 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.993	65	80779	500.00	ug/L	0.00
4) pentafluorobenzene	9.583	168	184341	50.00	ug/L	0.00
51) 1,4-difluorobenzene	10.537	114	231920	50.00	ug/L	0.00
83) chlorobenzene-d5	13.914	117	216467	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	16.341	152	114596	50.00	ug/L	0.00
System Monitoring Compounds						
45) dibromofluoromethane (s)	9.562	113	92258	47.10	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery =	94.20%		
46) 1,2-dichloroethane-d4 (s)	10.018	65	114322	56.31	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery =	112.62%		
75) toluene-d8 (s)	12.299	98	301097	47.87	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery =	95.74%		
100) 4-bromofluorobenzene (s)	15.156	95	122344	42.04	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery =	84.08%		

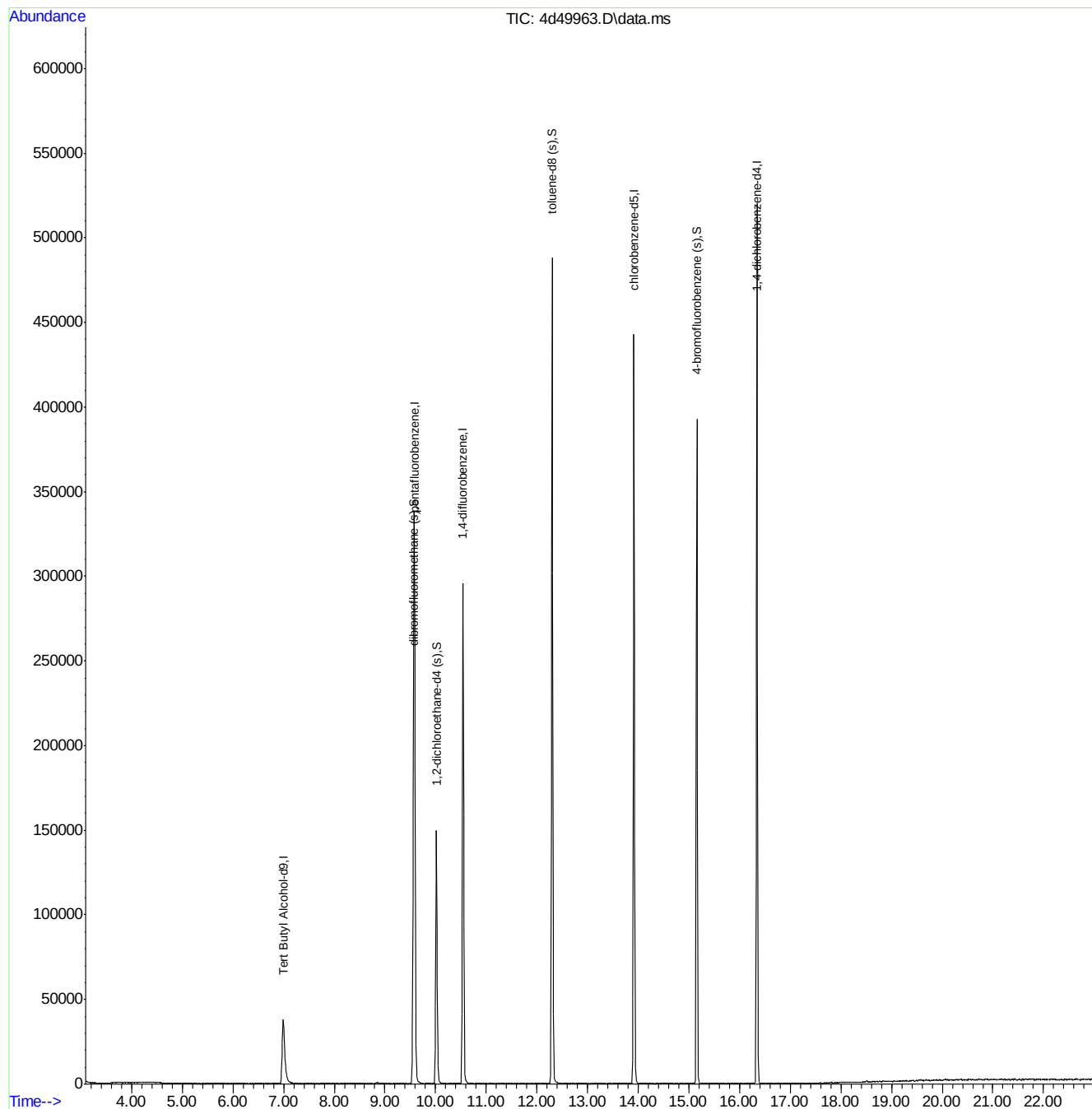
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 4d49963.D
Acq On : 3 Jul 2014 6:06 pm
Operator : PayalR
Sample : jb70517-5
Misc : MS69993,V4D2227,5,,,,1
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jul 07 08:34:27 2014
Quant Method : C:\MSDCHEM\1\METHODS\M4D2197.M
Quant Title : SW-846 Method 8260B/8260C
QLast Update : Fri Jun 13 18:12:09 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : Y146910.D
 Acq On : 1 Jul 2014 4:55 pm
 Operator : prashans
 Sample : MB
 Misc : MS69998,VY6385,5.0,,,,1
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 02 08:30:51 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MYS6377.M
 Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Wed Jun 25 11:30:58 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.35	65	58284	500.00	ug/L	0.00
5) pentafluorobenzene	9.53	168	166263	50.00	ug/L	0.00
58) 1,4-difluorobenzene	10.44	114	199067	50.00	ug/L	0.00
88) chlorobenzene-d5	13.56	117	167652	50.00	ug/L	0.00
103) 1,4-dichlorobenzene-d4	15.85	152	84068	50.00	ug/L	0.00

System Monitoring Compounds

50) dibromofluoromethane (s)	9.60	113	63997	49.32	ug/L	0.00
Spiked Amount	50.000	Range	59 - 130	Recovery	=	98.64%
51) 1,2-dichloroethane-d4 (s)	10.03	65	62475	45.54	ug/L	0.00
Spiked Amount	50.000	Range	65 - 123	Recovery	=	91.08%
80) toluene-d8 (s)	12.06	98	240317	52.20	ug/L	0.00
Spiked Amount	50.000	Range	77 - 125	Recovery	=	104.40%
105) 4-bromofluorobenzene (s)	14.70	95	80412	47.74	ug/L	0.00
Spiked Amount	50.000	Range	71 - 132	Recovery	=	95.48%

Target Compounds	Qvalue

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

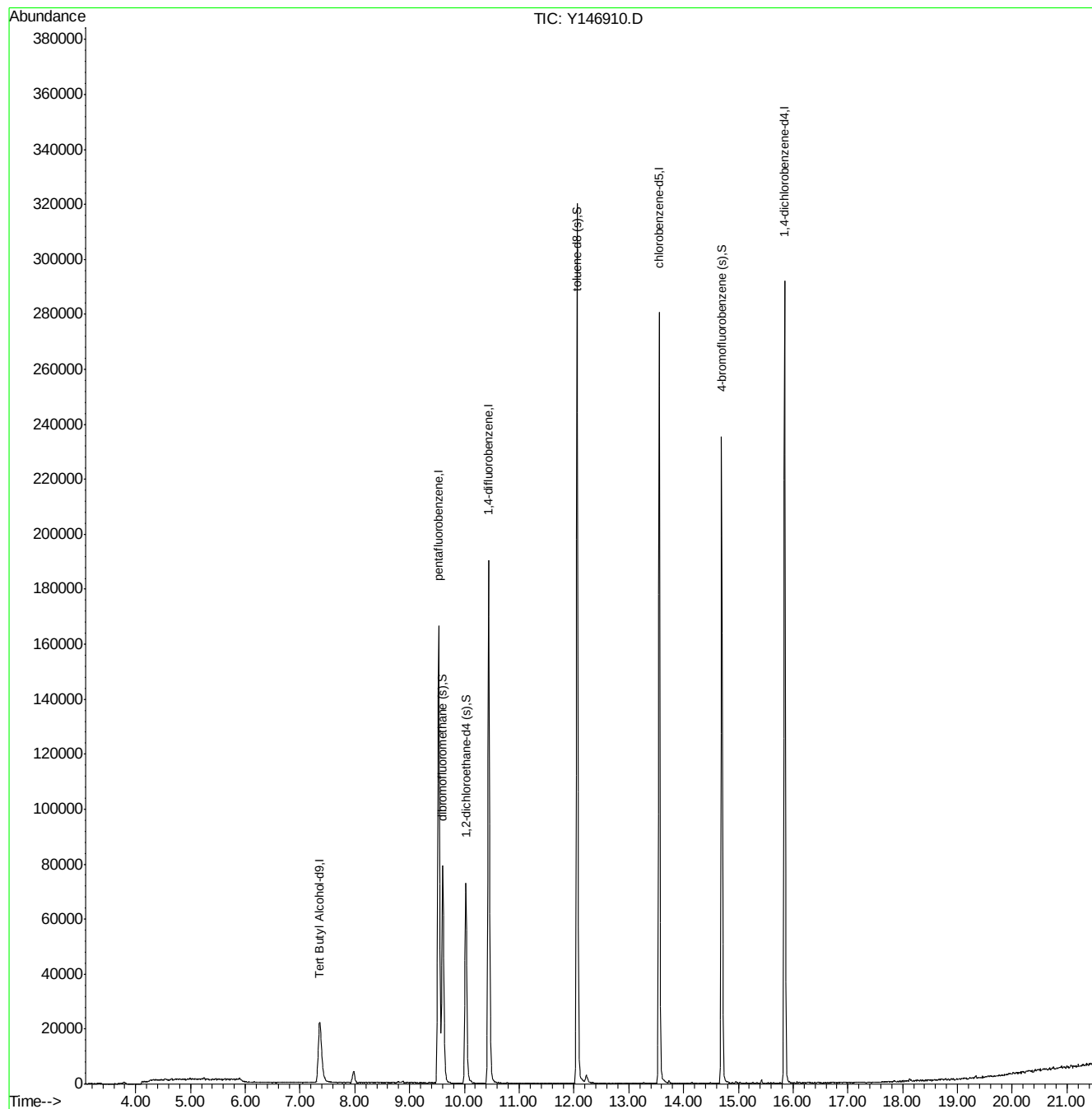
7.2.1

7

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : Y146910.D
Acq On : 1 Jul 2014 4:55 pm
Operator : prashans
Sample : MB
Misc : MS69998,VY6385,5.0,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 02 08:30:51 2014
Quant Method : C:\MSDCHEM\1\METHODS\MYS6377.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Wed Jun 25 11:30:58 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 4d49949.D
Acq On : 3 Jul 2014 11:16 am
Operator : PayalR
Sample : mb
Misc : MS69975,V4D2227,5,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 07 08:13:07 2014
Quant Method : C:\MSDCHEM\1\METHODS\M4D2197.M
Quant Title : SW-846 Method 8260B/8260C
QLast Update : Fri Jun 13 18:12:09 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.993	65	81138	500.00	ug/L	0.00
4) pentafluorobenzene	9.583	168	196572	50.00	ug/L	0.00
51) 1,4-difluorobenzene	10.543	114	249934	50.00	ug/L	0.00
83) chlorobenzene-d5	13.914	117	231717	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	16.341	152	121507	50.00	ug/L	0.00
System Monitoring Compounds						
45) dibromofluoromethane (s)	9.567	113	97754	46.80	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery =	93.60%		
46) 1,2-dichloroethane-d4 (s)	10.018	65	118594	54.78	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery =	109.56%		
75) toluene-d8 (s)	12.299	98	323433	47.71	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery =	95.42%		
100) 4-bromofluorobenzene (s)	15.156	95	129968	42.12	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery =	84.24%		

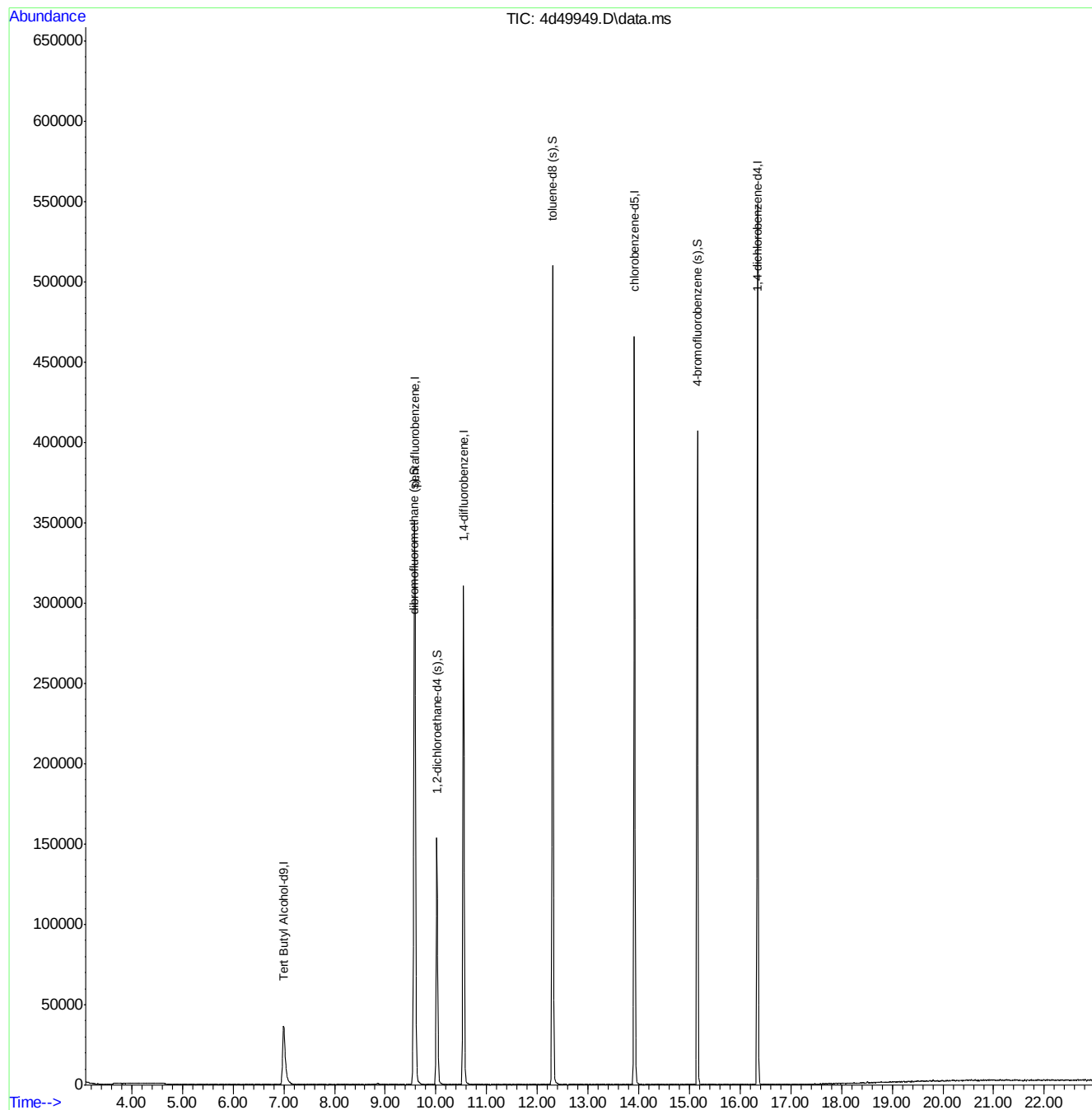
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 4d49949.D
Acq On : 3 Jul 2014 11:16 am
Operator : PayalR
Sample : mb
Misc : MS69975,V4D2227,5,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 07 08:13:07 2014
Quant Method : C:\MSDCHEM\1\METHODS\M4D2197.M
Quant Title : SW-846 Method 8260B/8260C
QLast Update : Fri Jun 13 18:12:09 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : Y146911.D
 Acq On : 1 Jul 2014 5:36 pm
 Operator : prashans
 Sample : BS
 Misc : MS69998,VY6385,5.0,,,,1
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 02 08:31:31 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MYS6377.M
 Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Wed Jun 25 11:30:58 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.36	65	68012	500.00	ug/L	0.00
5) pentafluorobenzene	9.52	168	176187	50.00	ug/L	0.00
58) 1,4-difluorobenzene	10.44	114	209510	50.00	ug/L	0.00
88) chlorobenzene-d5	13.56	117	179752	50.00	ug/L	0.00
103) 1,4-dichlorobenzene-d4	15.84	152	90768	50.00	ug/L	0.00

System Monitoring Compounds

50) dibromofluoromethane (s)	9.60	113	67396	49.01	ug/L	0.00
Spiked Amount 50.000	Range 59 - 130		Recovery =	98.02%		
51) 1,2-dichloroethane-d4 (s)	10.02	65	66399	45.68	ug/L	0.00
Spiked Amount 50.000	Range 65 - 123		Recovery =	91.36%		
80) toluene-d8 (s)	12.06	98	255772	52.79	ug/L	0.00
Spiked Amount 50.000	Range 77 - 125		Recovery =	105.58%		
105) 4-bromofluorobenzene (s)	14.70	95	88763	48.81	ug/L	0.00
Spiked Amount 50.000	Range 71 - 132		Recovery =	97.62%		

Target Compounds

						Qvalue
2) 1,4-dioxane	11.17	88	20914	1284.20	ug/L	# 99
4) tertiary butyl alcohol	7.47	59	47731	264.96	ug/L	98
11) chlorodifluoromethane	3.97	51	51104	44.65	ug/L	98
12) dichlorodifluoromethane	3.94	85	57146	42.72	ug/L	97
13) chloromethane	4.28	50	89517	47.47	ug/L	100
14) vinyl chloride	4.53	62	82668	49.00	ug/L	99
16) bromomethane	5.18	94	56947	47.15	ug/L	98
17) chloroethane	5.36	64	46835	60.26	ug/L	97
19) trichlorofluoromethane	5.81	101	89649	49.54	ug/L	98
20) ethyl ether	6.20	74	38571	52.58	ug/L	98
21) 2-chloropropane	6.41	63	28070	54.85	ug/L	92
22) acrolein	6.52	56	136504	488.78	ug/L	98
23) 1,1-dichloroethene	6.63	61	98079	52.62	ug/L	99
24) acetone	6.75	43	20727	26.25	ug/L	96
25) allyl chloride	7.16	76	40449	61.04	ug/L	99
26) acetonitrile	7.22	40	56821	538.27	ug/L	94
27) iodomethane	6.93	142	120005	50.96	ug/L	98
28) carbon disulfide	7.03	76	224622	50.53	ug/L	100
29) 1-chloropropane	7.38	42	116025	46.93	ug/L	100
30) methylene chloride	7.37	49	99790	43.38	ug/L	97
31) methyl acetate	7.18	74	9431	49.31	ug/L	90
32) methyl tert butyl ether	7.66	73	394309	97.29	ug/L	98
33) trans-1,2-dichloroethene	7.72	61	96135	51.43	ug/L	99
34) di-isopropyl ether	8.23	45	240780	49.68	ug/L	99
35) ethyl tert-butyl ether	8.69	59	217178	47.92	ug/L	98
36) 2-butanone	9.02	72	7876	42.00	ug/L	# 43
37) 1,1-dichloroethane	8.29	63	126009	51.77	ug/L	97
38) chloroprene	8.38	53	84219	48.76	ug/L	99
39) acrylonitrile	7.74	53	118894	265.62	ug/L	98
40) vinyl acetate	8.28	86	11617	61.09	ug/L	96
41) ethyl acetate	9.02	45	10705	53.44	ug/L	# 1
42) 2,2-dichloropropane	9.01	77	88962	46.81	ug/L	96
43) cis-1,2-dichloroethene	9.03	96	76363	48.59	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : Y146911.D
 Acq On : 1 Jul 2014 5:36 pm
 Operator : prashans
 Sample : BS
 Misc : MS69998,VY6385,5.0,,,,1
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 02 08:31:31 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MYS6377.M
 Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Wed Jun 25 11:30:58 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) propionitrile	9.15	54	99635	578.91	ug/L	100
45) bromochloromethane	9.35	130	48748	49.81	ug/L	98
46) tetrahydrofuran	9.37	72	9366	52.61	ug/L	95
47) chloroform	9.40	83	121043	49.49	ug/L	100
48) tert-Butyl Formate	9.41	59	44539	48.58	ug/L	98
49) isobutyl alcohol	9.85	41	26883	545.76	ug/L #	99
52) freon 113	6.57	151	46998	52.74	ug/L	98
53) methacrylonitrile	9.31	67	27413	52.70	ug/L	96
54) 1,1,1-trichloroethane	9.62	97	98741	51.95	ug/L	96
55) Cyclohexane	9.66	84	95545	49.24	ug/L #	97
56) 2,2,4-trimethylpentane	10.01	57	209877	41.98	ug/L	99
57) tert-amyl methyl ether	10.07	73	211442	47.93	ug/L	100
59) epichlorohydrin	11.72	57	34574	268.89	ug/L	96
60) n-butyl alcohol	10.60	56	126629	3120.54	ug/L	98
61) carbon tetrachloride	9.81	117	88849	53.10	ug/L	99
62) 1,1-dichloropropene	9.79	75	87210	51.23	ug/L	98
63) hexane	7.97	57	90326	52.04	ug/L	96
65) benzene	10.06	78	283002	51.07	ug/L	99
66) heptane	10.18	57	42241	41.10	ug/L	98
67) isopropyl acetate	9.98	61	29163	53.50	ug/L	93
68) 1,2-dichloroethane	10.11	62	85155	54.50	ug/L	98
69) trichloroethene	10.77	95	69800	51.94	ug/L	98
71) 2-nitropropane	11.58	41	20819	47.42	ug/L #	54
72) 2-chloroethyl vinyl ether	11.57	63	109973	192.31	ug/L	100
73) methyl methacrylate	11.04	69	47885	54.16	ug/L	99
74) 1,2-dichloropropane	11.05	63	75429	52.77	ug/L	98
75) methylcyclohexane	10.95	83	101705	45.99	ug/L	99
77) dibromomethane	11.22	93	43177	52.12	ug/L	99
78) bromodichloromethane	11.34	83	97203	52.83	ug/L	100
79) cis-1,3-dichloropropene	11.79	75	115894	49.82	ug/L	99
81) 4-methyl-2-pentanone	11.88	58	28892	56.31	ug/L	94
82) toluene	12.12	91	288448	48.41	ug/L	99
83) 3-methyl-1-butanol	11.91	70	44546	1173.22	ug/L	98
84) trans-1,3-dichloropropene	12.35	75	101341	49.94	ug/L	98
85) ethyl methacrylate	12.32	69	86123	51.33	ug/L	97
86) 1,1,2-trichloroethane	12.56	83	53982	52.24	ug/L	99
87) 2-hexanone	12.72	58	29164	51.02	ug/L	94
89) tetrachloroethene	12.69	166	78130	50.92	ug/L	98
90) 1,3-dichloropropane	12.74	76	98272	51.61	ug/L	99
91) butyl acetate	12.78	56	47535	54.38	ug/L	96
92) dibromochloromethane	13.00	129	77059	51.80	ug/L	99
93) 1,2-dibromoethane	13.15	107	64037	52.29	ug/L	99
94) 3,3-Dimethyl-1-Butanol	12.89	57	79733	555.94	ug/L	99
96) chlorobenzene	13.58	112	192133	50.82	ug/L	97
97) 1,1,1,2-tetrachloroethane	13.65	131	69876	51.34	ug/L	97
98) ethylbenzene	13.62	91	314049	49.88	ug/L	98
99) m,p-xylene	13.73	106	246805	99.70	ug/L	99
100) o-xylene	14.14	91	250229	49.80	ug/L	98
101) styrene	14.16	104	209389	52.73	ug/L	99
102) bromoform	14.45	173	54573	53.10	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : Y146911.D
 Acq On : 1 Jul 2014 5:36 pm
 Operator : prashans
 Sample : BS
 Misc : MS69998,VY6385,5.0,,,,1
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 02 08:31:31 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MYS6377.M
 Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Wed Jun 25 11:30:58 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) isopropylbenzene	14.47	105	302021	50.58	ug/L	98
107) bromobenzene	14.88	156	87868	53.22	ug/L	92
108) cyclohexanone	14.69	55	32407	111.49	ug/L	93
109) 1,1,2,2-tetrachloroethane	14.82	83	84781	50.97	ug/L	98
110) trans-1,4-dichloro-2-buten	14.85	53	21222	53.38	ug/L	95
111) 1,2,3-trichloropropane	14.89	110	18592	51.38	ug/L	98
112) n-propylbenzene	14.88	91	368243	54.98	ug/L	100
114) 2-chlorotoluene	15.04	126	76017	52.15	ug/L	99
115) 4-chlorotoluene	15.14	91	219191	50.55	ug/L	99
116) 1,3,5-trimethylbenzene	15.03	105	252338	51.04	ug/L	99
117) tert-butylbenzene	15.37	119	209432	52.05	ug/L	99
118) pentachloroethane	15.47	167	54602	54.77	ug/L	98
119) 1,2,4-trimethylbenzene	15.42	105	256942	52.63	ug/L	99
120) sec-butylbenzene	15.58	105	323715	50.97	ug/L	99
121) 1,3-dichlorobenzene	15.78	146	156233	51.30	ug/L	98
122) p-isopropyltoluene	15.70	119	274742	52.33	ug/L	99
123) 1,4-dichlorobenzene	15.87	146	159090	50.30	ug/L	100
124) 1,2-dichlorobenzene	16.26	146	149379	51.05	ug/L	100
125) n-butylbenzene	16.11	92	138709	51.08	ug/L	98
127) 1,2-dibromo-3-chloropropan	17.05	157	17297	54.46	ug/L	95
128) 1,3,5-Trichlorobenzene	17.20	180	125110	50.20	ug/L	100
129) 1,2,4-trichlorobenzene	17.84	180	113878	54.52	ug/L	99
131) hexachlorobutadiene	17.93	225	64111	50.96	ug/L	98
132) naphthalene	18.12	128	236050	55.49	ug/L	100
133) 1,2,3-trichlorobenzene	18.37	180	105220	54.22	ug/L	97
134) hexachloroethane	16.50	119	54173	52.53	ug/L	99
135) Benzyl chloride	15.99	91	138388	47.37	ug/L	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 4d49950.D
 Acq On : 3 Jul 2014 11:55 am
 Operator : PayalR
 Sample : bs
 Misc : MS69975,V4D2227,5,,,,,1
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 07 08:13:48 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M4D2197.M
 Quant Title : SW-846 Method 8260B/8260C
 QLast Update : Fri Jun 13 18:12:09 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	7.003	65	81643	500.00	ug/L	0.00
4) pentafluorobenzene	9.588	168	169544	50.00	ug/L	0.00
51) 1,4-difluorobenzene	10.542	114	213572	50.00	ug/L	0.00
83) chlorobenzene-d5	13.914	117	200162	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	16.341	152	107792	50.00	ug/L	0.00
System Monitoring Compounds						
45) dibromofluoromethane (s)	9.572	113	85355	47.38	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery =	94.76%		
46) 1,2-dichloroethane-d4 (s)	10.023	65	103979	55.69	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery =	111.38%		
75) toluene-d8 (s)	12.304	98	279597	48.27	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery =	96.54%		
100) 4-bromofluorobenzene (s)	15.156	95	114333	41.76	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery =	83.52%		
Target Compounds						
2) 1,4-dioxane	11.292	88	27378	1390.27	ug/L #	85
3) tertiary butyl alcohol	7.140	59	65125	267.77	ug/L	96
5) chlorodifluoromethane	3.333	51	9385	4.71	ug/L #	24
6) dichlorodifluoromethane	3.333	85	119995	43.41	ug/L	99
7) chloromethane	3.643	50	142243	45.93	ug/L	99
8) vinyl chloride	3.905	62	140416	48.70	ug/L	100
10) bromomethane	4.576	94	90457	43.51	ug/L	100
11) chloroethane	4.780	64	72891	60.23	ug/L	96
12) trichlorofluoromethane	5.326	101	194160	64.22	ug/L	99
14) ethyl ether	5.787	74	53159	58.22	ug/L	96
16) 2-chloropropane	5.971	43	182919	59.65	ug/L	92
17) acrolein	6.007	56	211707	428.10	ug/L	98
18) 1,1-dichloroethene	6.222	96	91068	50.90	ug/L	90
19) acetone	6.269	43	36250	54.33	ug/L	99
20) allyl chloride	6.820	76	54394	61.13	ug/L	98
21) acetonitrile	6.726	40	71046	598.71	ug/L	94
22) iodomethane	6.495	142	185194	54.78	ug/L	91
23) iso-butyl alcohol	9.871	41	43820	511.00	ug/L	99
24) carbon disulfide	6.636	76	351647	53.77	ug/L	96
25) methylene chloride	7.014	84	107825	49.47	ug/L	92
26) 1-chloropropane	7.077	42	177896	57.19	ug/L	98
27) methyl acetate	6.825	74	15215	41.86	ug/L #	84
28) methyl tert butyl ether	7.460	73	605196	107.14	ug/L	96
29) trans-1,2-dichloroethene	7.470	96	96001	47.84	ug/L	90
30) di-isopropyl ether	8.194	45	339600	53.49	ug/L	96
31) ethyl tert-butyl ether	8.718	59	323460	55.50	ug/L	97
32) 2-butanone	8.933	72	12890	49.92	ug/L	88
33) 1,1-dichloroethane	8.115	63	200322	58.43	ug/L	99
34) chloroprene	8.262	53	139529	56.72	ug/L	93
35) acrylonitrile	7.376	53	210005	235.97	ug/L	98
36) vinyl acetate	8.152	86	16353	53.40	ug/L	62
37) ethyl acetate	8.990	45	15297	38.66	ug/L	82

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 4d49950.D
 Acq On : 3 Jul 2014 11:55 am
 Operator : PayalR
 Sample : bs
 Misc : MS69975,V4D2227,5,,,1
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 07 08:13:48 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M4D2197.M
 Quant Title : SW-846 Method 8260B/8260C
 QLast Update : Fri Jun 13 18:12:09 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
38) 2,2-dichloropropane	8.970	77	162253	62.39	ug/L	98
39) cis-1,2-dichloroethene	8.949	96	107941	49.26	ug/L	91
40) propionitrile	8.996	54	166409	460.80	ug/L	98
41) methyl acrylate	9.064	55	101826	49.75	ug/L	98
42) bromochloromethane	9.274	128	56099	54.05	ug/L	94
43) tetrahydrofuran	9.347	42	33816	44.90	ug/L	97
44) chloroform	9.357	83	197078	56.61	ug/L	98
47) freon 113	6.243	151	71399	56.01	ug/L	98
48) methacrylonitrile	9.221	41	71516	50.06	ug/L	95
49) 1,1,1-trichloroethane	9.651	97	172499	62.50	ug/L	98
50) tert-amyl methyl ether	10.223	73	297858	52.30	ug/L	98
52) epichlorohydrin	11.853	57	56154	227.21	ug/L	97
53) n-butyl alcohol	10.679	56	161779	2113.06	ug/L	95
54) cyclohexane	9.751	84	132023	53.64	ug/L	89
56) carbon tetrachloride	9.877	117	160702	68.91	ug/L	99
57) 1,1-dichloropropene	9.856	75	138994	55.99	ug/L	98
59) benzene	10.123	78	388795	53.39	ug/L	98
60) ISO-OCTANE	10.212	57	329681	52.40	ug/L	94
61) heptane	10.406	57	66660	54.02	ug/L	99
62) isopropyl acetate	10.107	43	211445	53.33	ug/L	97
63) 1,2-dichloroethane	10.118	62	165008	66.93	ug/L	99
64) trichloroethene	10.894	95	105517	52.91	ug/L	94
66) 2-nitropropane	11.696	43	36430	57.45	ug/L	97
67) 2-chloroethyl vinyl ether	11.759	63	288764	191.95	ug/L	98
68) methyl methacrylate	11.224	41	105513	55.26	ug/L	92
69) 1,2-dichloropropane	11.161	63	112974	55.52	ug/L	89
70) methylcyclohexane	11.161	83	148943	52.15	ug/L	84
72) dibromomethane	11.308	93	77483	56.37	ug/L	98
73) bromodichloromethane	11.460	83	161709	59.27	ug/L	99
74) cis-1,3-dichloropropene	11.974	75	180436	56.58	ug/L	94
76) 4-methyl-2-pentanone	12.105	58	47992	48.27	ug/L	96
77) toluene	12.383	92	233859	53.18	ug/L	99
78) 3-methyl-1-butanol	12.121	70	58754	805.47	ug/L	91
79) trans-1,3-dichloropropene	12.577	75	169245	56.19	ug/L	96
80) ethyl methacrylate	12.624	69	142588	48.00	ug/L	92
81) 1,1,2-trichloroethane	12.797	83	89651	51.62	ug/L	99
82) 2-hexanone	13.022	58	45333	47.51	ug/L	90
84) tetrachloroethene	13.012	166	106855	53.07	ug/L	97
85) 1,3-dichloropropane	12.991	76	165824	52.66	ug/L	98
86) butyl acetate	13.132	56	74696	43.80	ug/L	95
87) dibromochloromethane	13.264	129	128201	53.88	ug/L	99
88) 1,2-dibromoethane	13.426	107	108658	49.75	ug/L	99
90) chlorobenzene	13.950	112	276308	51.89	ug/L	97
91) 1,1,1,2-tetrachloroethane	14.013	131	109221	53.94	ug/L	97
92) ethylbenzene	14.034	91	475606	53.23	ug/L	97
93) m,p-xylene	14.155	106	350116	106.09	ug/L	94
94) o-xylene	14.595	106	172260	52.09	ug/L	95
95) styrene	14.601	104	300914	51.58	ug/L	96
97) bromoform	14.842	173	93637	52.26	ug/L	99
99) isopropylbenzene	14.973	105	458960	51.40	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 4d49950.D
 Acq On : 3 Jul 2014 11:55 am
 Operator : PayalR
 Sample : bs
 Misc : MS69975,V4D2227,5,,,,,1
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 07 08:13:48 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M4D2197.M
 Quant Title : SW-846 Method 8260B/8260C
 QLast Update : Fri Jun 13 18:12:09 2014
 Response via : Initial Calibration

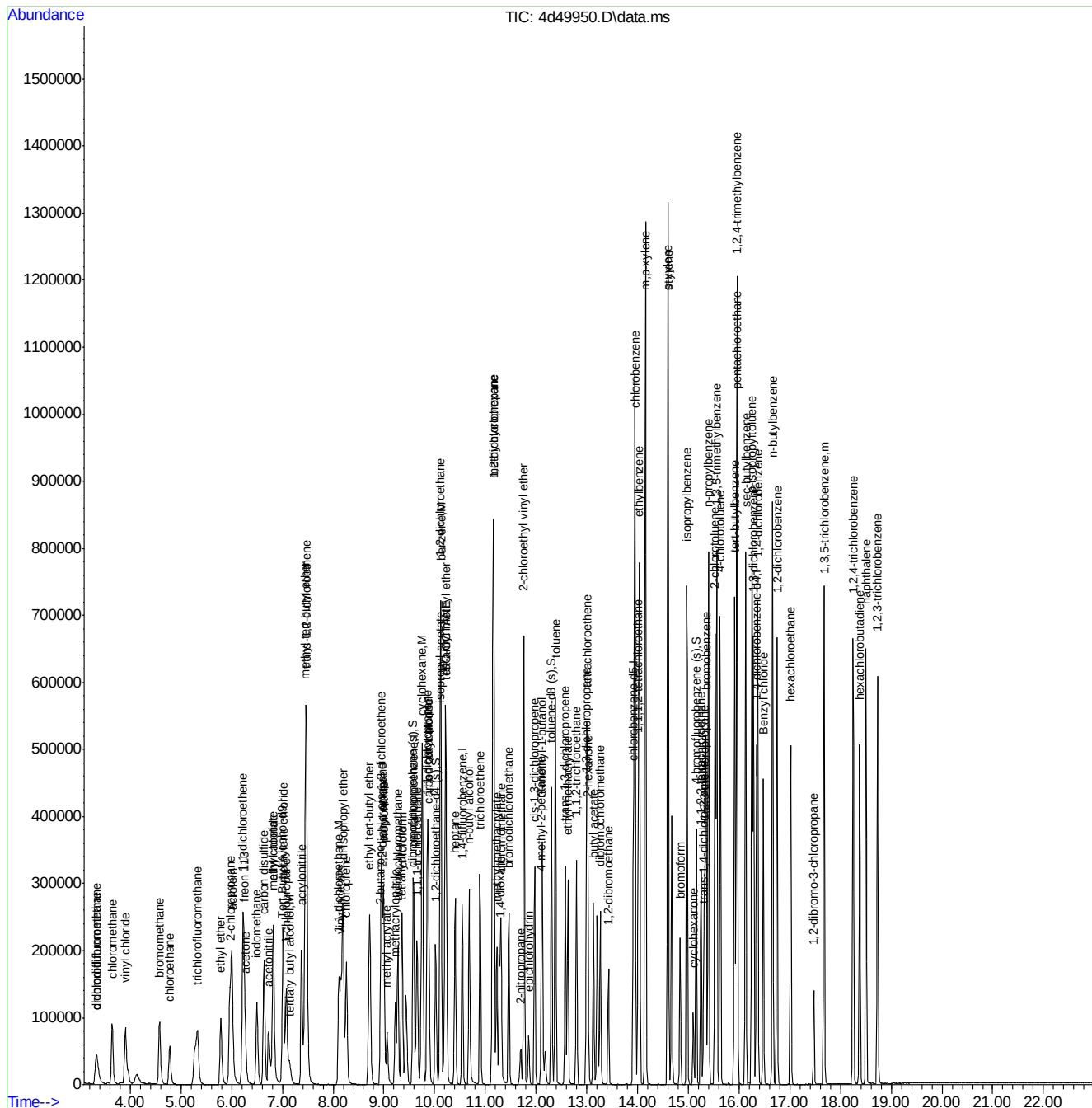
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
101) bromobenzene	15.350	156	128283	51.46	ug/L	98
102) cyclohexanone	15.099	55	44116	133.47	ug/L	96
103) 1,1,2,2-tetrachloroethane	15.251	83	154607	45.07	ug/L	100
104) trans-1,4-dichloro-2-b...	15.303	53	31048	51.01	ug/L #	83
105) 1,2,3-trichloropropane	15.324	110	36758	48.54	ug/L	94
106) n-propylbenzene	15.397	91	586196	55.04	ug/L	99
107) 2-chlorotoluene	15.529	126	114454	50.98	ug/L	95
108) 4-chlorotoluene	15.628	91	361148	52.10	ug/L	97
109) 1,3,5-trimethylbenzene	15.560	105	398560	51.21	ug/L	97
110) tert-butylbenzene	15.911	119	330651	51.95	ug/L	93
111) pentachloroethane	15.964	167	85875	51.35	ug/L	97
112) 1,2,4-trimethylbenzene	15.953	105	423570	54.16	ug/L	96
113) sec-butylbenzene	16.131	105	517199	50.99	ug/L	98
114) 1,3-dichlorobenzene	16.284	146	236103	49.68	ug/L	98
115) p-isopropyltoluene	16.252	119	431249	52.45	ug/L	97
116) 1,4-dichlorobenzene	16.367	146	242788	50.15	ug/L	97
117) 1,2-dichlorobenzene	16.750	146	238258	50.10	ug/L	99
118) n-butylbenzene	16.661	92	243924	54.70	ug/L	97
119) 1,2-dibromo-3-chloropr...	17.474	75	32147	50.86	ug/L	87
120) 1,3,5-trichlorobenzene	17.678	180	201032	51.29	ug/L	100
121) 1,2,4-trichlorobenzene	18.250	180	188026	52.10	ug/L	99
122) hexachlorobutadiene	18.376	225	95407	53.38	ug/L	96
123) naphthalene	18.501	128	434985	46.01	ug/L	99
124) 1,2,3-trichlorobenzene	18.727	180	173003	49.60	ug/L	100
125) hexachloroethane	17.018	119	95987	52.26	ug/L	99
126) Benzyl chloride	16.478	91	288043	48.04	ug/L	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 4d49950.D
Acq On : 3 Jul 2014 11:55 am
Operator : PayalR
Sample : bs
Misc : MS69975,V4D2227,5,,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 07 08:13:48 2014
Quant Method : C:\MSDCHEM\1\METHODS\M4D2197.M
Quant Title : SW-846 Method 8260B/8260C
QLast Update : Fri Jun 13 18:12:09 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : Y146915.D
 Acq On : 1 Jul 2014 7:43 pm
 Operator : prashans
 Sample : JB70517-1MS
 Misc : MS69998,VY6385,5.3,,,,1
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 02 08:52:16 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MYS6377.M
 Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Wed Jun 25 11:30:58 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.36	65	58786	500.00	ug/L	0.00
5) pentafluorobenzene	9.53	168	177132	50.00	ug/L	0.00
58) 1,4-difluorobenzene	10.44	114	213387	50.00	ug/L	0.00
88) chlorobenzene-d5	13.56	117	179552	50.00	ug/L	0.00
103) 1,4-dichlorobenzene-d4	15.85	152	90592	50.00	ug/L	0.00

System Monitoring Compounds

50) dibromofluoromethane (s)	9.61	113	69161	50.02	ug/L	0.00
Spiked Amount	50.000	Range	59 - 130	Recovery	=	100.04%
51) 1,2-dichloroethane-d4 (s)	10.03	65	65967	45.14	ug/L	0.00
Spiked Amount	50.000	Range	65 - 123	Recovery	=	90.28%
80) toluene-d8 (s)	12.06	98	261129	52.91	ug/L	0.00
Spiked Amount	50.000	Range	77 - 125	Recovery	=	105.82%
105) 4-bromofluorobenzene (s)	14.70	95	88116	48.55	ug/L	0.00
Spiked Amount	50.000	Range	71 - 132	Recovery	=	97.10%

Target Compounds

						Qvalue
2) 1,4-dioxane	11.18	88	16705	1186.74	ug/L	# 98
4) tertiary butyl alcohol	7.47	59	37383	240.09	ug/L	99
11) chlorodifluoromethane	3.97	51	60443	52.52	ug/L	99
12) dichlorodifluoromethane	3.94	85	54492	40.52	ug/L	95
13) chloromethane	4.28	50	74758	39.43	ug/L	98
14) vinyl chloride	4.53	62	66647	39.29	ug/L	98
16) bromomethane	5.18	94	47739	39.32	ug/L	100
17) chloroethane	5.37	64	32669	41.81	ug/L	99
19) trichlorofluoromethane	5.81	101	73352	40.32	ug/L	98
20) ethyl ether	6.20	74	35513	48.15	ug/L	97
21) 2-chloropropane	6.43	63	25465	49.50	ug/L	94
22) acrolein	6.52	56	58366	207.88	ug/L	98
23) 1,1-dichloroethene	6.64	61	87551	46.72	ug/L	98
24) acetone	6.74	43	49247	62.03	ug/L	97
25) allyl chloride	7.18	76	30290	45.46	ug/L	97
26) acetonitrile	7.22	40	46380	437.02	ug/L	93
27) iodomethane	6.93	142	104505	44.14	ug/L	98
28) carbon disulfide	7.04	76	180436	40.37	ug/L	99
29) 1-chloropropane	7.39	42	110788	44.57	ug/L	100
30) methylene chloride	7.38	49	95017	41.09	ug/L	95
31) methyl acetate	7.18	74	9722	50.56	ug/L	96
32) methyl tert butyl ether	7.67	73	186688	45.82	ug/L	97
33) trans-1,2-dichloroethene	7.72	61	84645	45.04	ug/L	98
34) di-isopropyl ether	8.23	45	227568	46.71	ug/L	97
35) ethyl tert-butyl ether	8.70	59	212454	46.62	ug/L	99
36) 2-butanone	9.02	72	11190	59.35	ug/L	# 68
37) 1,1-dichloroethane	8.31	63	116875	47.76	ug/L	99
38) chloroprene	8.39	53	72666	41.84	ug/L	98
39) acrylonitrile	7.75	53	98309	218.46	ug/L	97
40) vinyl acetate	8.29	86	7233	37.83	ug/L	99
41) ethyl acetate	9.02	45	9139	45.38	ug/L	# 38
42) 2,2-dichloropropane	9.02	77	84194	44.07	ug/L	95
43) cis-1,2-dichloroethene	9.04	96	70750	44.78	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : Y146915.D
 Acq On : 1 Jul 2014 7:43 pm
 Operator : prashans
 Sample : JB70517-1MS
 Misc : MS69998,VY6385,5.3,,,,1
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 02 08:52:16 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MYS6377.M
 Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Wed Jun 25 11:30:58 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) propionitrile	9.16	54	80107	462.96	ug/L	98
45) bromochloromethane	9.36	130	45393	46.13	ug/L	98
46) tetrahydrofuran	9.38	72	7960	44.47	ug/L	99
47) chloroform	9.40	83	113743	46.26	ug/L	99
48) tert-Butyl Formate	9.42	59	38881	42.18	ug/L	96
49) isobutyl alcohol	9.85	41	21057	425.20	ug/L #	99
52) freon 113	6.57	151	42024	46.91	ug/L	98
53) methacrylonitrile	9.31	67	23078	44.13	ug/L	97
54) 1,1,1-trichloroethane	9.63	97	86923	45.49	ug/L	97
55) Cyclohexane	9.67	84	81609	41.83	ug/L #	97
56) 2,2,4-trimethylpentane	10.02	57	170747	33.97	ug/L	99
57) tert-amyl methyl ether	10.08	73	199036	44.88	ug/L	99
59) epichlorohydrin	11.72	57	27716	211.64	ug/L	96
60) n-butyl alcohol	10.60	56	101014	2444.08	ug/L	96
61) carbon tetrachloride	9.81	117	73278	43.00	ug/L	98
62) 1,1-dichloropropene	9.80	75	79008	45.56	ug/L	98
63) hexane	7.97	57	70216	39.72	ug/L	98
65) benzene	10.07	78	259550	45.99	ug/L	100
66) heptane	10.18	57	36434	34.81	ug/L	98
67) isopropyl acetate	9.99	61	24301	43.77	ug/L #	31
68) 1,2-dichloroethane	10.11	62	78051	49.05	ug/L	99
69) trichloroethene	10.77	95	63045	46.06	ug/L	97
71) 2-nitropropane	11.58	41	19818	44.32	ug/L	96
72) 2-chloroethyl vinyl ether	11.57	63	153007	262.70	ug/L	99
73) methyl methacrylate	11.05	69	40460	44.93	ug/L	97
74) 1,2-dichloropropane	11.06	63	69161	47.51	ug/L	99
75) methylcyclohexane	10.96	83	86002	38.18	ug/L	99
77) dibromomethane	11.23	93	38661	45.82	ug/L	99
78) bromodichloromethane	11.35	83	88026	46.97	ug/L	98
79) cis-1,3-dichloropropene	11.79	75	105116	44.36	ug/L	98
81) 4-methyl-2-pentanone	11.88	58	24456	46.80	ug/L	99
82) toluene	12.13	91	259374	42.74	ug/L	99
83) 3-methyl-1-butanol	11.91	70	33750	872.74	ug/L	97
84) trans-1,3-dichloropropene	12.35	75	91804	44.41	ug/L	100
85) ethyl methacrylate	12.32	69	76669	44.87	ug/L	95
86) 1,1,2-trichloroethane	12.56	83	48474	46.06	ug/L	100
87) 2-hexanone	12.72	58	32128	55.19	ug/L	97
89) tetrachloroethene	12.69	166	75647	49.35	ug/L	99
90) 1,3-dichloropropane	12.75	76	87889	46.21	ug/L	98
91) butyl acetate	12.78	56	33923	38.85	ug/L	100
92) dibromochloromethane	13.00	129	69174	46.55	ug/L	98
93) 1,2-dibromoethane	13.15	107	55384	45.28	ug/L	97
94) 3,3-Dimethyl-1-Butanol	12.89	57	62887	438.97	ug/L	98
96) chlorobenzene	13.59	112	165315	43.78	ug/L	99
97) 1,1,1,2-tetrachloroethane	13.65	131	62903	46.27	ug/L	99
98) ethylbenzene	13.62	91	268716	42.72	ug/L	99
99) m,p-xylene	13.73	106	208634	84.37	ug/L	97
100) o-xylene	14.15	91	218023	43.44	ug/L	99
101) styrene	14.16	104	172838	43.57	ug/L	100
102) bromoform	14.45	173	45215	44.05	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : Y146915.D
 Acq On : 1 Jul 2014 7:43 pm
 Operator : prashans
 Sample : JB70517-1MS
 Misc : MS69998,VY6385,5.3,,,,,1
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 02 08:52:16 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MYS6377.M
 Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Wed Jun 25 11:30:58 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) isopropylbenzene	14.48	105	246709	41.40	ug/L	98
107) bromobenzene	14.89	156	72711	44.12	ug/L	98
108) cyclohexanone	14.69	55	151638	522.68	ug/L	99
109) 1,1,2,2-tetrachloroethane	14.82	83	73164	44.07	ug/L	99
110) trans-1,4-dichloro-2-buten	14.86	53	16774	42.27	ug/L	100
111) 1,2,3-trichloropropane	14.89	110	15939	44.14	ug/L	97
112) n-propylbenzene	14.88	91	276977	41.44	ug/L	99
114) 2-chlorotoluene	15.04	126	61134	42.02	ug/L	94
115) 4-chlorotoluene	15.14	91	175883	40.64	ug/L	99
116) 1,3,5-trimethylbenzene	15.03	105	200885	40.71	ug/L	99
117) tert-butylbenzene	15.37	119	165167	41.13	ug/L	98
118) pentachloroethane	15.47	167	38275	38.47	ug/L	97
119) 1,2,4-trimethylbenzene	15.42	105	197835	40.60	ug/L	99
120) sec-butylbenzene	15.58	105	242783	38.30	ug/L	99
121) 1,3-dichlorobenzene	15.78	146	122356	40.25	ug/L	98
122) p-isopropyltoluene	15.70	119	203638	38.86	ug/L	100
123) 1,4-dichlorobenzene	15.87	146	124054	39.30	ug/L	99
124) 1,2-dichlorobenzene	16.26	146	117474	40.22	ug/L	99
125) n-butylbenzene	16.11	92	96219	35.50	ug/L	98
127) 1,2-dibromo-3-chloropropan	17.05	157	13258	41.83	ug/L	99
128) 1,3,5-Trichlorobenzene	17.20	180	86146	34.63	ug/L	99
129) 1,2,4-trichlorobenzene	17.84	180	72465	34.76	ug/L	100
131) hexachlorobutadiene	17.93	225	36809	29.31	ug/L	98
132) naphthalene	18.12	128	160172	37.73	ug/L	99
133) 1,2,3-trichlorobenzene	18.37	180	64519	33.31	ug/L	100
134) hexachloroethane	16.50	119	38902	37.80	ug/L	99
135) Benzyl chloride	15.99	91	114527	39.28	ug/L	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : Y146916.D
 Acq On : 1 Jul 2014 8:12 pm
 Operator : prashans
 Sample : JB70517-1MSD
 Misc : MS69998,VY6385,5.2,,,,1
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 02 08:57:57 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MYS6377.M
 Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Wed Jun 25 11:30:58 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.36	65	52098	500.00	ug/L	0.00
5) pentafluorobenzene	9.53	168	173330	50.00	ug/L	0.00
58) 1,4-difluorobenzene	10.44	114	208290	50.00	ug/L	0.00
88) chlorobenzene-d5	13.56	117	174000	50.00	ug/L	0.00
103) 1,4-dichlorobenzene-d4	15.84	152	90682	50.00	ug/L	0.00

System Monitoring Compounds

50) dibromofluoromethane (s)	9.60	113	68637	50.73	ug/L	0.00
Spiked Amount	50.000	Range	59 - 130	Recovery	=	101.46%
51) 1,2-dichloroethane-d4 (s)	10.03	65	65392	45.72	ug/L	0.00
Spiked Amount	50.000	Range	65 - 123	Recovery	=	91.44%
80) toluene-d8 (s)	12.06	98	252546	52.43	ug/L	0.00
Spiked Amount	50.000	Range	77 - 125	Recovery	=	104.86%
105) 4-bromofluorobenzene (s)	14.70	95	87705	48.27	ug/L	0.00
Spiked Amount	50.000	Range	71 - 132	Recovery	=	96.54%

Target Compounds

						Qvalue
2) 1,4-dioxane	11.17	88	17490	1402.01	ug/L	# 97
4) tertiary butyl alcohol	7.48	59	38224	277.01	ug/L	97
11) chlorodifluoromethane	3.97	51	58539	51.99	ug/L	# 94
12) dichlorodifluoromethane	3.94	85	57083	43.38	ug/L	96
13) chloromethane	4.28	50	78701	42.42	ug/L	99
14) vinyl chloride	4.53	62	71856	43.29	ug/L	98
16) bromomethane	5.19	94	49311	41.50	ug/L	97
17) chloroethane	5.36	64	34528	45.16	ug/L	99
19) trichlorofluoromethane	5.81	101	78816	44.27	ug/L	100
20) ethyl ether	6.20	74	33980	47.08	ug/L	98
21) 2-chloropropane	6.42	63	24421	48.51	ug/L	92
22) acrolein	6.52	56	49799	181.25	ug/L	97
23) 1,1-dichloroethene	6.64	61	83851	45.73	ug/L	99
24) acetone	6.75	43	44629	57.45	ug/L	96
25) allyl chloride	7.17	76	28647	43.94	ug/L	98
26) acetonitrile	7.22	40	44083	424.49	ug/L	97
27) iodomethane	6.93	142	99989	43.16	ug/L	97
28) carbon disulfide	7.04	76	176651	40.39	ug/L	99
29) 1-chloropropane	7.39	42	106042	43.60	ug/L	99
30) methylene chloride	7.38	49	91577	40.47	ug/L	95
31) methyl acetate	7.18	74	9564	50.83	ug/L	93
32) methyl tert butyl ether	7.66	73	177274	44.46	ug/L	99
33) trans-1,2-dichloroethene	7.72	61	81000	44.05	ug/L	99
34) di-isopropyl ether	8.24	45	237698	49.86	ug/L	99
35) ethyl tert-butyl ether	8.70	59	220474	49.44	ug/L	98
36) 2-butanone	9.03	72	9868	53.49	ug/L	# 84
37) 1,1-dichloroethane	8.30	63	112313	46.90	ug/L	98
38) chloroprene	8.39	53	74459	43.82	ug/L	97
39) acrylonitrile	7.75	53	90336	205.14	ug/L	97
40) vinyl acetate	8.29	86	7231	38.65	ug/L	73
41) ethyl acetate	9.01	45	8812	44.71	ug/L	95
42) 2,2-dichloropropane	9.02	77	81334	43.50	ug/L	97
43) cis-1,2-dichloroethene	9.03	96	67346	43.56	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : Y146916.D
 Acq On : 1 Jul 2014 8:12 pm
 Operator : prashans
 Sample : JB70517-1MSD
 Misc : MS69998,VY6385,5.2,,,,1
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 02 08:57:57 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MYS6377.M
 Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Wed Jun 25 11:30:58 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) propionitrile	9.16	54	74833	441.97	ug/L	94
45) bromochloromethane	9.35	130	43382	45.05	ug/L	97
46) tetrahydrofuran	9.38	72	7411	42.32	ug/L	98
47) chloroform	9.40	83	108988	45.30	ug/L	98
48) tert-Butyl Formate	9.42	59	39779	44.10	ug/L	97
49) isobutyl alcohol	9.85	41	21225	438.00	ug/L #	98
52) freon 113	6.57	151	43972	50.16	ug/L	99
53) methacrylonitrile	9.31	67	20960	40.96	ug/L	91
54) 1,1,1-trichloroethane	9.62	97	84475	45.18	ug/L	99
55) Cyclohexane	9.67	84	77774	40.74	ug/L #	97
56) 2,2,4-trimethylpentane	10.01	57	173183	35.21	ug/L	99
57) tert-amyl methyl ether	10.07	73	204675	47.16	ug/L	99
59) epichlorohydrin	11.72	57	26780	209.49	ug/L	99
60) n-butyl alcohol	10.60	56	102090	2530.56	ug/L	96
61) carbon tetrachloride	9.81	117	70775	42.54	ug/L	99
62) 1,1-dichloropropene	9.80	75	74590	44.07	ug/L	99
63) hexane	7.97	57	72147	41.81	ug/L	97
65) benzene	10.07	78	248380	45.09	ug/L	99
66) heptane	10.18	57	36026	35.26	ug/L	97
67) isopropyl acetate	9.98	61	24110	44.49	ug/L #	30
68) 1,2-dichloroethane	10.11	62	74419	47.91	ug/L	99
69) trichloroethene	10.77	95	59951	44.87	ug/L	98
71) 2-nitropropane	11.58	41	18857	43.21	ug/L #	88
72) 2-chloroethyl vinyl ether	11.57	63	151779	266.97	ug/L	99
73) methyl methacrylate	11.05	69	36718	41.77	ug/L	95
74) 1,2-dichloropropane	11.06	63	65842	46.33	ug/L	99
75) methylcyclohexane	10.96	83	88596	40.30	ug/L	97
77) dibromomethane	11.22	93	36105	43.84	ug/L	98
78) bromodichloromethane	11.34	83	83036	45.39	ug/L	98
79) cis-1,3-dichloropropene	11.79	75	98099	42.41	ug/L	96
81) 4-methyl-2-pentanone	11.88	58	22173	43.47	ug/L	97
82) toluene	12.13	91	243717	41.14	ug/L	99
83) 3-methyl-1-butanol	11.91	70	33532	888.32	ug/L	97
84) trans-1,3-dichloropropene	12.35	75	83338	41.31	ug/L	98
85) ethyl methacrylate	12.32	69	70675	42.37	ug/L	97
86) 1,1,2-trichloroethane	12.56	83	44597	43.41	ug/L	97
87) 2-hexanone	12.72	58	28658	50.43	ug/L	96
89) tetrachloroethene	12.69	166	70976	47.78	ug/L	99
90) 1,3-dichloropropane	12.74	76	80941	43.91	ug/L	99
91) butyl acetate	12.78	56	32068	37.90	ug/L	97
92) dibromochloromethane	13.00	129	63466	44.07	ug/L	98
93) 1,2-dibromoethane	13.15	107	50550	42.64	ug/L	96
94) 3,3-Dimethyl-1-Butanol	12.90	57	61956	446.27	ug/L	99
96) chlorobenzene	13.59	112	153918	42.06	ug/L	99
97) 1,1,1,2-tetrachloroethane	13.65	131	59998	45.54	ug/L	99
98) ethylbenzene	13.62	91	252933	41.50	ug/L	100
99) m,p-xylene	13.73	106	196715	82.09	ug/L	98
100) o-xylene	14.15	91	206448	42.44	ug/L	99
101) styrene	14.16	104	163242	42.47	ug/L	99
102) bromoform	14.45	173	41582	41.80	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : Y146916.D
 Acq On : 1 Jul 2014 8:12 pm
 Operator : prashans
 Sample : JB70517-1MSD
 Misc : MS69998,VY6385,5.2,,,,,1
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 02 08:57:57 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MYS6377.M
 Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Wed Jun 25 11:30:58 2014
 Response via : Initial Calibration

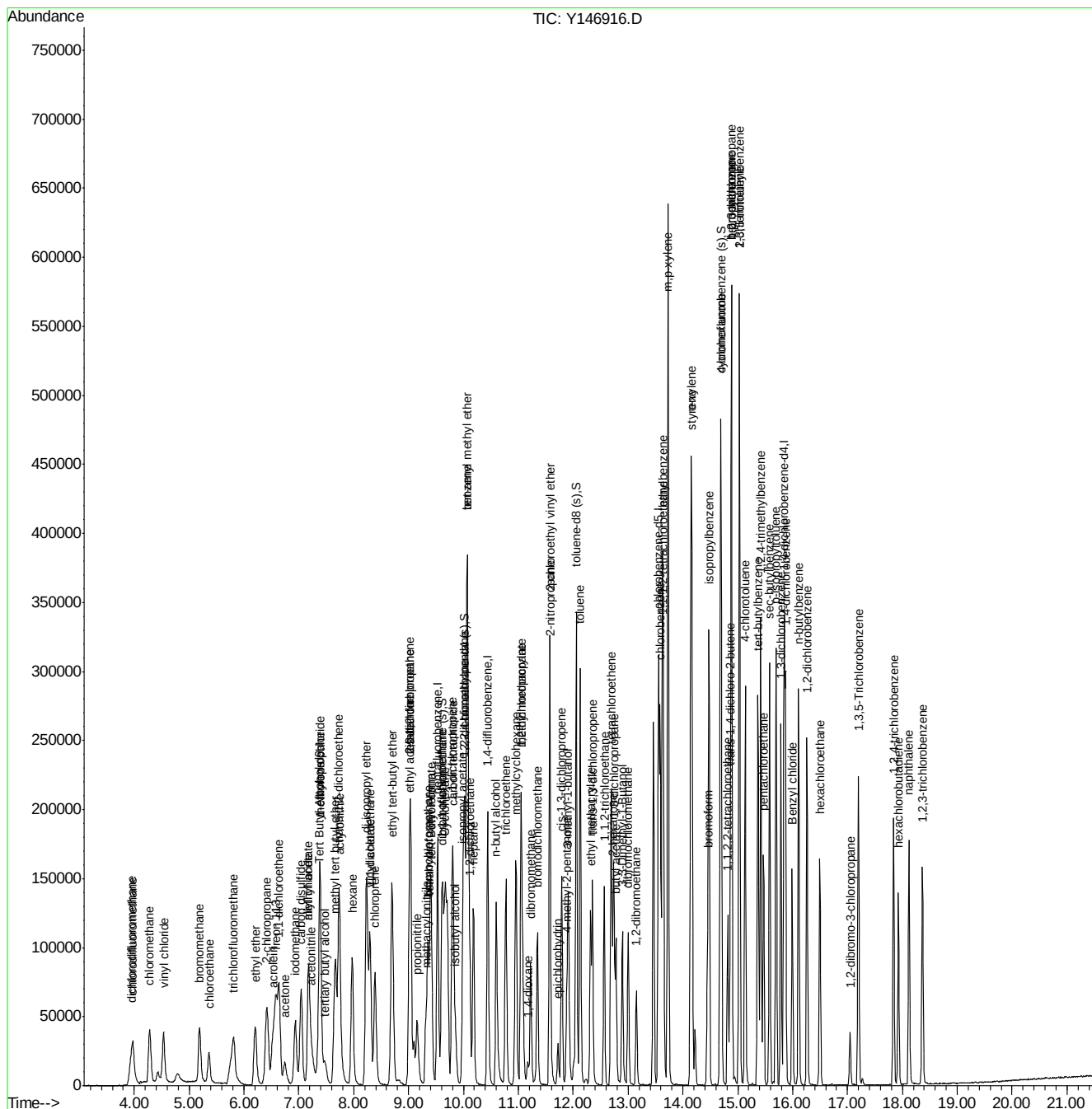
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) isopropylbenzene	14.48	105	234399	39.30	ug/L	99
107) bromobenzene	14.89	156	68997	41.83	ug/L	98
108) cyclohexanone	14.69	55	138009	475.23	ug/L	99
109) 1,1,2,2-tetrachloroethane	14.82	83	67386	40.55	ug/L	99
110) trans-1,4-dichloro-2-buten	14.86	53	15406	38.79	ug/L	100
111) 1,2,3-trichloropropane	14.89	110	15036	41.59	ug/L	97
112) n-propylbenzene	14.88	91	266170	39.78	ug/L	99
114) 2-chlorotoluene	15.04	126	58741	40.34	ug/L	97
115) 4-chlorotoluene	15.14	91	170533	39.36	ug/L	98
116) 1,3,5-trimethylbenzene	15.03	105	194049	39.29	ug/L	100
117) tert-butylbenzene	15.37	119	158034	39.31	ug/L	99
118) pentachloroethane	15.47	167	36774	36.92	ug/L	98
119) 1,2,4-trimethylbenzene	15.42	105	191662	39.30	ug/L	99
120) sec-butylbenzene	15.58	105	232423	36.63	ug/L	99
121) 1,3-dichlorobenzene	15.78	146	118691	39.01	ug/L	98
122) p-isopropyltoluene	15.70	119	197207	37.60	ug/L	100
123) 1,4-dichlorobenzene	15.87	146	119466	37.81	ug/L	98
124) 1,2-dichlorobenzene	16.27	146	112583	38.51	ug/L	99
125) n-butylbenzene	16.11	92	93026	34.29	ug/L	99
127) 1,2-dibromo-3-chloropropan	17.05	157	12470	39.30	ug/L	98
128) 1,3,5-Trichlorobenzene	17.20	180	81653	32.79	ug/L	99
129) 1,2,4-trichlorobenzene	17.84	180	66634	31.93	ug/L	99
131) hexachlorobutadiene	17.93	225	34827	27.71	ug/L	99
132) naphthalene	18.12	128	146835	34.55	ug/L	99
133) 1,2,3-trichlorobenzene	18.37	180	58623	30.24	ug/L	97
134) hexachloroethane	16.50	119	36740	35.66	ug/L	100
135) Benzyl chloride	15.99	91	112925	38.69	ug/L	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : Y146916.D
 Acq On : 1 Jul 2014 8:12 pm
 Operator : prashans
 Sample : JB70517-1MSD
 Misc : MS69998,VY6385,5.2,,,,,1
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 02 08:57:57 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MYS6377.M
 Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Wed Jun 25 11:30:58 2014
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 4d49957.D
 Acq On : 3 Jul 2014 3:20 pm
 Operator : PayalR
 Sample : jb70356-1ms
 Misc : MS70104,V4D2227,5,,,1
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 07 08:28:34 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M4D2197.M
 Quant Title : SW-846 Method 8260B/8260C
 QLast Update : Fri Jun 13 18:12:09 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.993	65	72914	500.00	ug/L	0.00
4) pentafluorobenzene	9.583	168	160637	50.00	ug/L	0.00
51) 1,4-difluorobenzene	10.542	114	203714	50.00	ug/L	0.00
83) chlorobenzene-d5	13.914	117	189374	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	16.341	152	103707	50.00	ug/L	0.00
System Monitoring Compounds						
45) dibromofluoromethane (s)	9.567	113	80924	47.41	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery =	94.82%		
46) 1,2-dichloroethane-d4 (s)	10.018	65	99074	56.00	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery =	112.00%		
75) toluene-d8 (s)	12.299	98	264929	47.95	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery =	95.90%		
100) 4-bromofluorobenzene (s)	15.151	95	108290	41.11	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery =	82.22%		
Target Compounds						
2) 1,4-dioxane	11.287	88	27233	1548.46	ug/L	# 85
3) tertiary butyl alcohol	7.129	59	243503	1121.05	ug/L	100
5) chlorodifluoromethane	3.339	51	115184	61.02	ug/L	95
6) dichlorodifluoromethane	3.328	85	165775	63.30	ug/L	99
7) chloromethane	3.643	50	164152	55.94	ug/L	99
8) vinyl chloride	3.910	62	158819	58.14	ug/L	100
10) bromomethane	4.571	94	98193	49.85	ug/L	99
11) chloroethane	4.770	64	63821	55.66	ug/L	97
12) trichlorofluoromethane	5.326	101	201296	70.27	ug/L	100
14) ethyl ether	5.782	74	47713	55.15	ug/L	95
16) 2-chloropropane	5.965	43	165085	56.82	ug/L	90
17) acrolein	6.002	56	219358	468.16	ug/L	97
18) 1,1-dichloroethene	6.217	96	82799	48.84	ug/L	87
19) acetone	6.269	43	39813	62.98	ug/L	91
20) allyl chloride	6.815	76	40680	48.26	ug/L	87
21) acetonitrile	6.726	40	67240	598.05	ug/L	96
22) iodomethane	6.495	142	171649	53.58	ug/L	90
23) iso-butyl alcohol	9.866	41	43674	537.53	ug/L	90
24) carbon disulfide	6.636	76	316973	51.16	ug/L	95
25) methylene chloride	7.014	84	102389	49.58	ug/L	94
26) 1-chloropropane	7.072	42	218933	74.29	ug/L	# 62
27) methyl acetate	6.820	74	15895	46.15	ug/L	# 84
28) methyl tert butyl ether	7.460	73	406444	75.94	ug/L	96
29) trans-1,2-dichloroethene	7.465	96	90444	47.57	ug/L	94
30) di-isopropyl ether	8.188	45	360617	59.95	ug/L	97
31) ethyl tert-butyl ether	8.713	59	348816	63.17	ug/L	98
32) 2-butanone	8.928	72	12139	49.62	ug/L	90
33) 1,1-dichloroethane	8.110	63	185957	57.25	ug/L	99
34) chloroprene	8.257	53	149859	64.30	ug/L	91
35) acrylonitrile	7.370	53	196558	233.11	ug/L	98
36) vinyl acetate	8.146	86	14442	49.78	ug/L	75
37) ethyl acetate	8.991	45	17597	46.94	ug/L	92

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 4d49957.D
 Acq On : 3 Jul 2014 3:20 pm
 Operator : PayalR
 Sample : jb70356-1ms
 Misc : MS70104,V4D2227,5,,,1
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 07 08:28:34 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M4D2197.M
 Quant Title : SW-846 Method 8260B/8260C
 QLast Update : Fri Jun 13 18:12:09 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
38) 2,2-dichloropropane	8.964	77	161588	65.58	ug/L	96
39) cis-1,2-dichloroethene	8.943	96	103316	49.76	ug/L	89
40) propionitrile	8.996	54	154709	452.15	ug/L	99
41) methyl acrylate	9.059	55	94444	48.70	ug/L	98
42) bromochloromethane	9.268	128	53527	54.43	ug/L	91
43) tetrahydrofuran	9.342	42	31925	44.74	ug/L	95
44) chloroform	9.352	83	190624	57.80	ug/L	98
47) freon 113	6.243	151	71769	59.42	ug/L	97
48) methacrylonitrile	9.221	41	68203	50.39	ug/L	96
49) 1,1,1-trichloroethane	9.646	97	159944	61.16	ug/L	99
50) tert-amyl methyl ether	10.217	73	319783	59.26	ug/L	97
52) epichlorohydrin	11.853	57	57193	242.61	ug/L	95
53) n-butyl alcohol	10.679	56	164052	2246.44	ug/L	95
54) cyclohexane	9.746	84	120411	51.29	ug/L	85
56) carbon tetrachloride	9.877	117	148786	66.89	ug/L	100
57) 1,1-dichloropropene	9.850	75	135490	57.22	ug/L	97
58) hexane	7.895	57	119204	60.40	ug/L	98
59) benzene	10.123	78	357901	51.52	ug/L	99
60) ISO-OCTANE	10.212	57	348028	57.99	ug/L	93
61) heptane	10.401	57	69018	58.64	ug/L	98
62) isopropyl acetate	10.107	43	223159	59.00	ug/L	96
63) 1,2-dichloroethane	10.113	62	160876	68.41	ug/L	99
64) trichloroethene	10.894	95	101431	53.33	ug/L	98
66) 2-nitropropane	11.696	43	34896	57.69	ug/L	97
67) 2-chloroethyl vinyl ether	11.759	63	43333	30.20	ug/L	98
68) methyl methacrylate	11.219	41	101334	55.64	ug/L	91
69) 1,2-dichloropropane	11.161	63	106927	55.09	ug/L	88
70) methylcyclohexane	11.161	83	149116	54.73	ug/L	96
72) dibromomethane	11.303	93	75539	57.62	ug/L	98
73) bromodichloromethane	11.460	83	158179	60.78	ug/L	99
74) cis-1,3-dichloropropene	11.969	75	179040	58.86	ug/L	91
76) 4-methyl-2-pentanone	12.105	58	46987	49.55	ug/L #	85
77) toluene	12.378	92	224908	53.62	ug/L	98
78) 3-methyl-1-butanol	12.121	70	65682	944.02	ug/L	93
79) trans-1,3-dichloropropene	12.572	75	174208	60.64	ug/L	93
80) ethyl methacrylate	12.624	69	143304	50.57	ug/L	94
81) 1,1,2-trichloroethane	12.792	83	86912	52.47	ug/L	100
82) 2-hexanone	13.022	58	48370	53.15	ug/L	87
84) tetrachloroethene	13.012	166	101647	53.36	ug/L	99
85) 1,3-dichloropropane	12.991	76	163099	54.74	ug/L	99
86) butyl acetate	13.127	56	82788	51.31	ug/L	88
87) dibromochloromethane	13.264	129	128250	56.97	ug/L	99
88) 1,2-dibromoethane	13.421	107	107257	51.90	ug/L	99
90) chlorobenzene	13.945	112	268221	53.24	ug/L	95
91) 1,1,1,2-tetrachloroethane	14.013	131	108874	56.84	ug/L	97
92) ethylbenzene	14.034	91	460577	54.48	ug/L	99
93) m,p-xylene	14.155	106	333417	106.79	ug/L	96
94) o-xylene	14.595	106	169022	54.02	ug/L	93
95) styrene	14.601	104	290966	52.71	ug/L	96
97) bromoform	14.837	173	90983	53.68	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 4d49957.D
 Acq On : 3 Jul 2014 3:20 pm
 Operator : PayalR
 Sample : jb70356-1ms
 Misc : MS70104,V4D2227,5,,,1
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 07 08:28:34 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M4D2197.M
 Quant Title : SW-846 Method 8260B/8260C
 QLast Update : Fri Jun 13 18:12:09 2014
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
99)	isopropylbenzene	14.973	105	444573	51.75	ug/L	98
101)	bromobenzene	15.350	156	124143	51.76	ug/L	99
102)	cyclohexanone	15.099	55	42844	135.00	ug/L	95
103)	1,1,2,2-tetrachloroethane	15.245	83	153779	46.59	ug/L	100
104)	trans-1,4-dichloro-2-b...	15.303	53	19286	32.93	ug/L	95
105)	1,2,3-trichloropropane	15.324	110	36091	49.53	ug/L	93
106)	n-propylbenzene	15.398	91	527552	51.48	ug/L	99
107)	2-chlorotoluene	15.529	126	109977	50.91	ug/L	96
108)	4-chlorotoluene	15.628	91	350783	52.60	ug/L	96
109)	1,3,5-trimethylbenzene	15.560	105	382339	51.06	ug/L	98
110)	tert-butylbenzene	15.911	119	316436	51.68	ug/L	94
111)	pentachloroethane	15.964	167	83103	51.65	ug/L	95
112)	1,2,4-trimethylbenzene	15.953	105	385828	51.28	ug/L	97
113)	sec-butylbenzene	16.132	105	494838	50.71	ug/L	99
114)	1,3-dichlorobenzene	16.284	146	232175	50.78	ug/L	98
115)	p-isopropyltoluene	16.252	119	409664	51.79	ug/L	97
116)	1,4-dichlorobenzene	16.367	146	237692	51.03	ug/L	99
117)	1,2-dichlorobenzene	16.745	146	231207	50.54	ug/L	98
118)	n-butylbenzene	16.656	92	225375	52.53	ug/L	98
119)	1,2-dibromo-3-chloropr...	17.474	75	31221	51.34	ug/L	93
120)	1,3,5-trichlorobenzene	17.673	180	195671	51.89	ug/L	100
121)	1,2,4-trichlorobenzene	18.250	180	182032	52.43	ug/L	99
122)	hexachlorobutadiene	18.376	225	88016	51.19	ug/L	98
123)	naphthalene	18.501	128	444682	48.89	ug/L	99
124)	1,2,3-trichlorobenzene	18.727	180	169148	50.40	ug/L	100
125)	hexachloroethane	17.018	119	90825	51.40	ug/L	98
126)	Benzyl chloride	16.478	91	319347	55.35	ug/L	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 4d49958.D
 Acq On : 3 Jul 2014 3:48 pm
 Operator : PayalR
 Sample : jB70356-1msd
 Misc : MS70104,V4D2227,5,,,,,1
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 07 08:29:06 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M4D2197.M
 Quant Title : SW-846 Method 8260B/8260C
 QLast Update : Fri Jun 13 18:12:09 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.998	65	81367	500.00	ug/L	0.00
4) pentafluorobenzene	9.583	168	173124	50.00	ug/L	0.00
51) 1,4-difluorobenzene	10.542	114	219822	50.00	ug/L	0.00
83) chlorobenzene-d5	13.914	117	207026	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	16.341	152	110327	50.00	ug/L	0.00
System Monitoring Compounds						
45) dibromofluoromethane (s)	9.567	113	87467	47.54	ug/L	0.00
Spiked Amount	50.000	Range	79 - 120	Recovery	=	95.08%
46) 1,2-dichloroethane-d4 (s)	10.018	65	105523	55.35	ug/L	0.00
Spiked Amount	50.000	Range	72 - 123	Recovery	=	110.70%
75) toluene-d8 (s)	12.299	98	285099	47.82	ug/L	0.00
Spiked Amount	50.000	Range	78 - 119	Recovery	=	95.64%
100) 4-bromofluorobenzene (s)	15.151	95	115092	41.08	ug/L	0.00
Spiked Amount	50.000	Range	74 - 119	Recovery	=	82.16%
Target Compounds						
2) 1,4-dioxane	11.287	88	30454	1551.71	ug/L	99
3) tertiary butyl alcohol	7.129	59	259015	1068.59	ug/L	98
5) chlorodifluoromethane	3.344	51	118950	58.47	ug/L	95
6) dichlorodifluoromethane	3.338	85	170322	60.35	ug/L	99
7) chloromethane	3.648	50	168055	53.14	ug/L	98
8) vinyl chloride	3.915	62	160424	54.49	ug/L	100
10) bromomethane	4.576	94	101393	47.76	ug/L	100
11) chloroethane	4.775	64	63761	51.59	ug/L	97
12) trichlorofluoromethane	5.326	101	205511	66.57	ug/L	98
14) ethyl ether	5.782	74	48735	52.27	ug/L	89
16) 2-chloropropane	5.965	43	165569	52.87	ug/L	# 90
17) acrolein	6.002	56	226095	447.74	ug/L	97
18) 1,1-dichloroethene	6.222	96	81836	44.79	ug/L	89
19) acetone	6.269	43	41422	60.80	ug/L	97
20) allyl chloride	6.820	76	42489	46.77	ug/L	94
21) acetonitrile	6.725	40	70722	583.65	ug/L	99
22) iodomethane	6.495	142	173082	50.13	ug/L	91
23) iso-butyl alcohol	9.866	41	46802	534.48	ug/L	91
24) carbon disulfide	6.631	76	313160	46.90	ug/L	96
25) methylene chloride	7.014	84	103982	46.72	ug/L	93
26) 1-chloropropane	7.077	42	223577	70.39	ug/L	# 68
27) methyl acetate	6.820	74	16769	45.18	ug/L	# 87
28) methyl tert butyl ether	7.460	73	419286	72.69	ug/L	95
29) trans-1,2-dichloroethene	7.465	96	91421	44.61	ug/L	93
30) di-isopropyl ether	8.188	45	371401	57.29	ug/L	97
31) ethyl tert-butyl ether	8.713	59	354014	59.49	ug/L	96
32) 2-butanone	8.928	72	12330	46.77	ug/L	88
33) 1,1-dichloroethane	8.110	63	187330	53.51	ug/L	99
34) chloroprene	8.256	53	149733	59.61	ug/L	91
35) acrylonitrile	7.370	53	203939	224.41	ug/L	97
36) vinyl acetate	8.146	86	15268	48.83	ug/L	72
37) ethyl acetate	8.990	45	16372	40.52	ug/L	91

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 4d49958.D
 Acq On : 3 Jul 2014 3:48 pm
 Operator : PayalR
 Sample : jB70356-1msd
 Misc : MS70104,V4D2227,5,,,1
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 07 08:29:06 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M4D2197.M
 Quant Title : SW-846 Method 8260B/8260C
 QLast Update : Fri Jun 13 18:12:09 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
38) 2,2-dichloropropane	8.964	77	161488	60.81	ug/L	98
39) cis-1,2-dichloroethene	8.943	96	104575	46.74	ug/L	92
40) propionitrile	8.996	54	161403	437.69	ug/L	99
41) methyl acrylate	9.059	55	99407	47.56	ug/L	99
42) bromochloromethane	9.268	128	54812	51.71	ug/L	93
43) tetrahydrofuran	9.342	42	32906	42.79	ug/L	97
44) chloroform	9.352	83	191058	53.75	ug/L	98
47) freon 113	6.243	151	71596	55.01	ug/L	94
48) methacrylonitrile	9.216	41	71169	48.78	ug/L	92
49) 1,1,1-trichloroethane	9.651	97	161412	57.27	ug/L	98
50) tert-amyl methyl ether	10.217	73	328488	56.48	ug/L	97
52) epichlorohydrin	11.848	57	57985	227.94	ug/L	96
53) n-butyl alcohol	10.679	56	179485	2277.67	ug/L	94
54) cyclohexane	9.751	84	123835	48.88	ug/L	88
56) carbon tetrachloride	9.877	117	147989	61.65	ug/L	99
57) 1,1-dichloropropene	9.850	75	135779	53.14	ug/L	97
58) hexane	7.895	57	119320	56.03	ug/L	98
59) benzene	10.118	78	364083	48.57	ug/L	98
60) ISO-OCTANE	10.207	57	347862	53.71	ug/L	93
61) heptane	10.401	57	71068	55.95	ug/L	98
62) isopropyl acetate	10.107	43	231305	56.68	ug/L	96
63) 1,2-dichloroethane	10.113	62	160156	63.11	ug/L	98
64) trichloroethene	10.894	95	102441	49.91	ug/L	100
66) 2-nitropropane	11.696	43	37173	56.95	ug/L	99
67) 2-chloroethyl vinyl ether	11.848	63	2281	1.47	ug/L	69
68) methyl methacrylate	11.219	41	105707	53.79	ug/L	91
69) 1,2-dichloropropane	11.161	63	109800	52.43	ug/L	91
70) methylcyclohexane	11.156	83	151903	51.67	ug/L	96
72) dibromomethane	11.303	93	77007	54.43	ug/L	96
73) bromodichloromethane	11.460	83	159806	56.90	ug/L	99
74) cis-1,3-dichloropropene	11.969	75	183064	55.77	ug/L	91
76) 4-methyl-2-pentanone	12.105	58	48552	47.45	ug/L #	85
77) toluene	12.377	92	229792	50.77	ug/L	98
78) 3-methyl-1-butanol	12.121	70	68768	915.95	ug/L	93
79) trans-1,3-dichloropropene	12.571	75	178462	57.57	ug/L	93
80) ethyl methacrylate	12.624	69	149715	48.96	ug/L	93
81) 1,1,2-trichloroethane	12.792	83	90853	50.83	ug/L	99
82) 2-hexanone	13.022	58	47583	48.45	ug/L	85
84) tetrachloroethene	13.007	166	103288	49.60	ug/L	98
85) 1,3-dichloropropane	12.991	76	166734	51.19	ug/L	99
86) butyl acetate	13.127	56	86233	48.89	ug/L	88
87) dibromochloromethane	13.264	129	131891	53.60	ug/L	99
88) 1,2-dibromoethane	13.421	107	110965	49.12	ug/L	99
90) chlorobenzene	13.945	112	274372	49.82	ug/L	96
91) 1,1,1,2-tetrachloroethane	14.013	131	109372	52.23	ug/L	98
92) ethylbenzene	14.034	91	470245	50.88	ug/L	98
93) m,p-xylene	14.155	106	340341	99.71	ug/L	95
94) o-xylene	14.595	106	172156	50.33	ug/L	95
95) styrene	14.601	104	300205	49.75	ug/L	96
97) bromoform	14.836	173	93913	50.68	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 4d49958.D
Acq On : 3 Jul 2014 3:48 pm
Operator : PayalR
Sample : jb70356-1msd
Misc : MS70104,V4D2227,5,,,,,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 07 08:29:06 2014
Quant Method : C:\MSDCHEM\1\METHODS\M4D2197.M
Quant Title : SW-846 Method 8260B/8260C
QLast Update : Fri Jun 13 18:12:09 2014
Response via : Initial Calibration

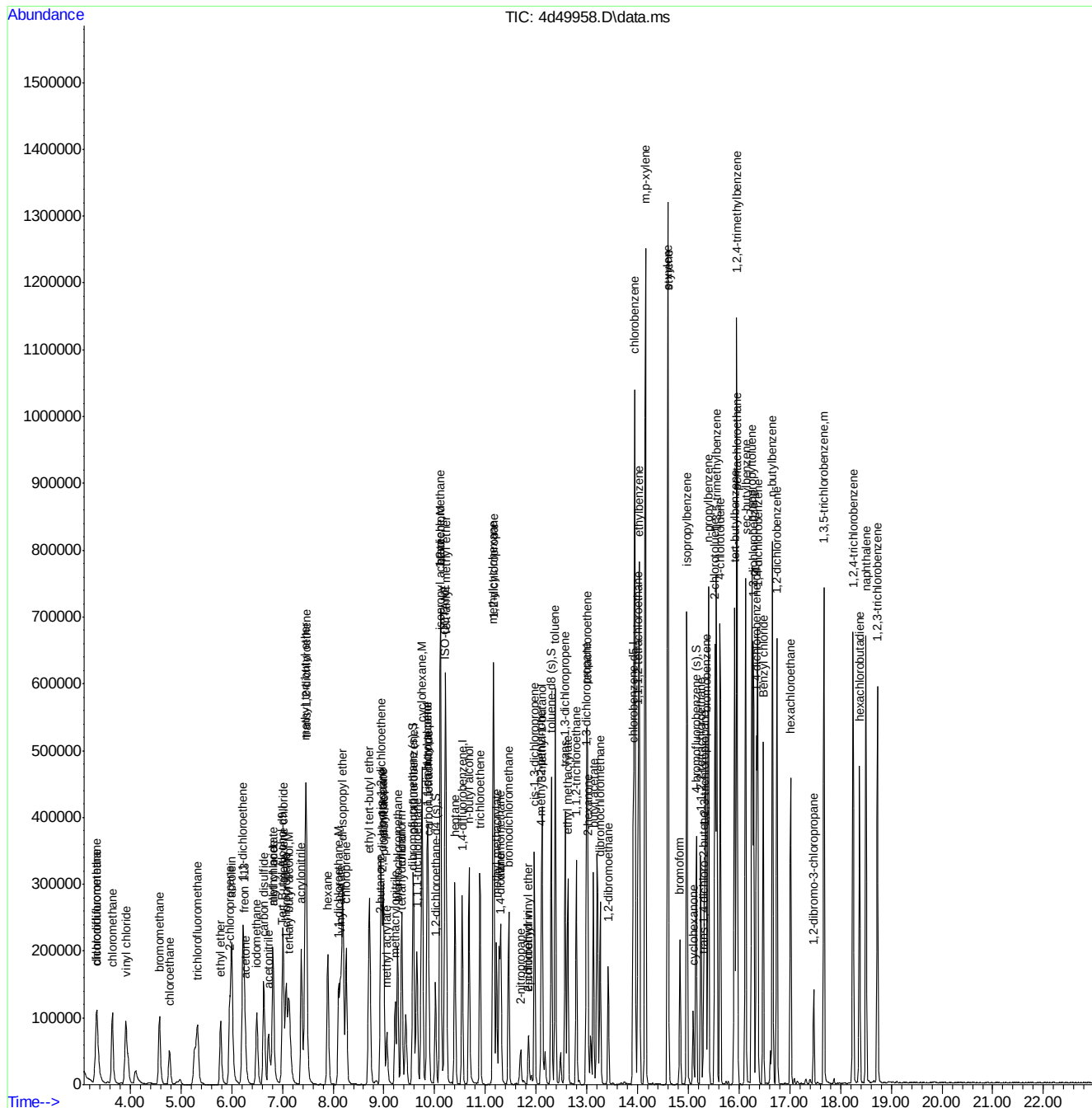
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
99)	isopropylbenzene	14.973	105	449809	49.22	ug/L	98
101)	bromobenzene	15.350	156	127362	49.91	ug/L	98
102)	cyclohexanone	15.099	55	46564	138.56	ug/L	96
103)	1,1,2,2-tetrachloroethane	15.245	83	161450	45.98	ug/L	100
104)	trans-1,4-dichloro-2-b...	15.298	53	20639	33.13	ug/L #	76
105)	1,2,3-trichloropropane	15.324	110	36704	47.35	ug/L	95
106)	n-propylbenzene	15.397	91	540656	49.59	ug/L	99
107)	2-chlorotoluene	15.523	126	112962	49.16	ug/L	92
108)	4-chlorotoluene	15.628	91	356989	50.32	ug/L	97
109)	1,3,5-trimethylbenzene	15.555	105	385959	48.45	ug/L	96
110)	tert-butylbenzene	15.911	119	320824	49.25	ug/L	93
111)	pentachloroethane	15.964	167	85437	49.91	ug/L	95
112)	1,2,4-trimethylbenzene	15.953	105	392755	49.07	ug/L	98
113)	sec-butylbenzene	16.131	105	500875	48.24	ug/L	99
114)	1,3-dichlorobenzene	16.284	146	237384	48.80	ug/L	99
115)	p-isopropyltoluene	16.252	119	408343	48.53	ug/L	98
116)	1,4-dichlorobenzene	16.367	146	241651	48.77	ug/L	99
117)	1,2-dichlorobenzene	16.745	146	236561	48.60	ug/L	98
118)	n-butylbenzene	16.656	92	224851	49.26	ug/L	99
119)	1,2-dibromo-3-chloropr...	17.474	75	32258	49.87	ug/L	91
120)	1,3,5-trichlorobenzene	17.673	180	200062	49.87	ug/L	100
121)	1,2,4-trichlorobenzene	18.244	180	185081	50.11	ug/L	100
122)	hexachlorobutadiene	18.376	225	89074	48.70	ug/L	99
123)	naphthalene	18.501	128	459624	47.50	ug/L	99
124)	1,2,3-trichlorobenzene	18.727	180	173343	48.55	ug/L	99
125)	hexachloroethane	17.018	119	89955	47.85	ug/L	98
126)	Benzyl chloride	16.478	91	324137	52.81	ug/L	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 4d49958.D
Acq On : 3 Jul 2014 3:48 pm
Operator : PayalR
Sample : jb70356-1msd
Misc : MS70104,V4D2227,5,,,,,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 07 08:29:06 2014
Quant Method : C:\MSDCHEM\1\METHODS\M4D2197.M
Quant Title : SW-846 Method 8260B/8260C
QLast Update : Fri Jun 13 18:12:09 2014
Response via : Initial Calibration



M4D2197.M Mon Jul 07 08:30:30 2014 RPT1

Page: 4

7.4.4

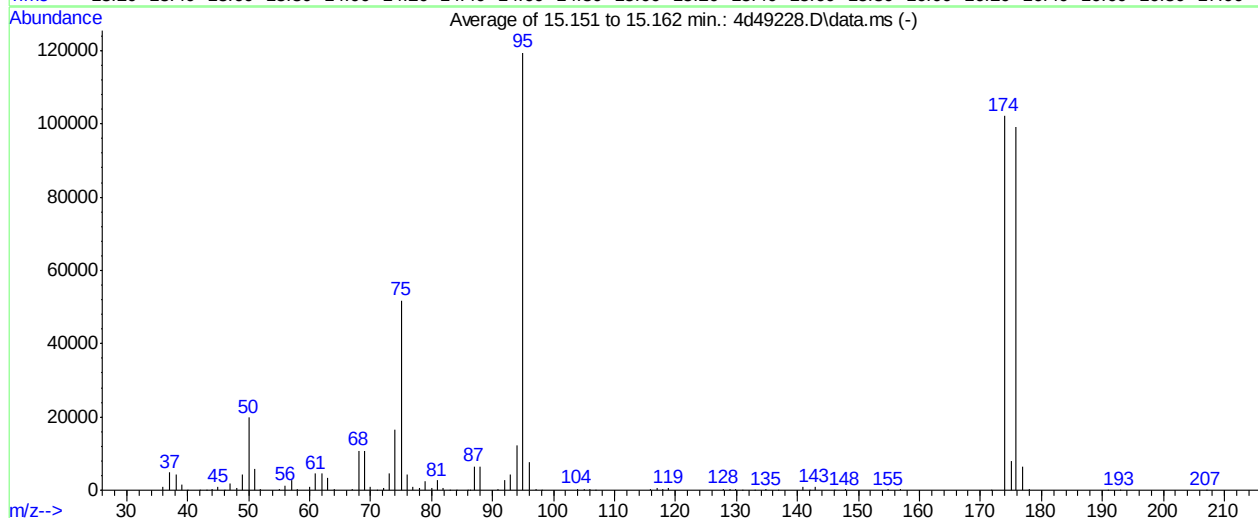
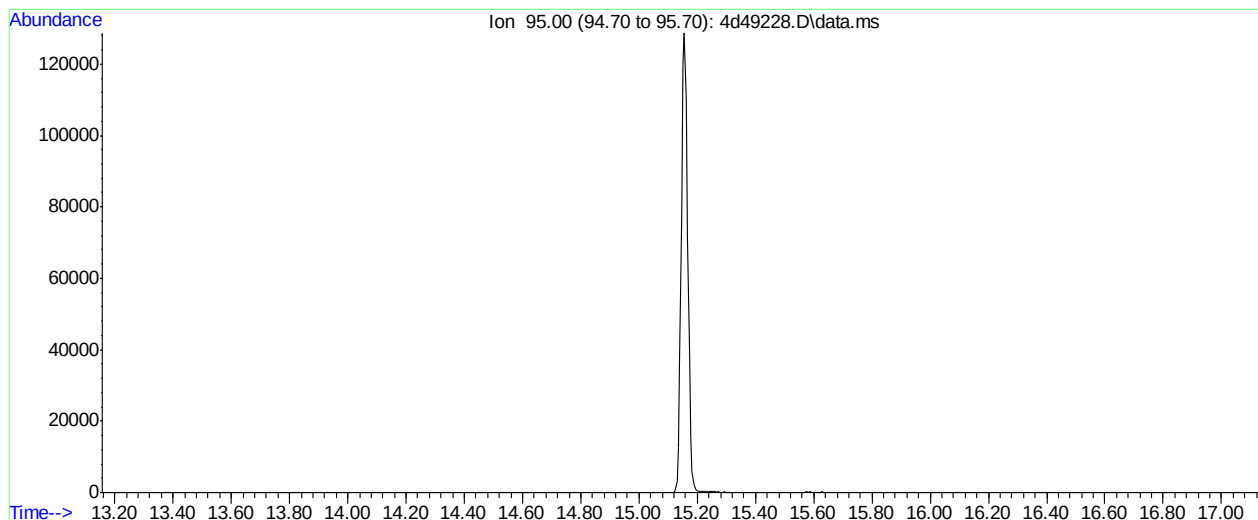


SW-846 Method 8260

Data File : C:\msdchem\1\data\4d49228.D
Acq On : 13 Jun 2014 12:57 pm
Sample : BFB
Misc : MS68671,V4D2197,5,,,1
MS Integration Params: rteint5.p

Vial: 1
Operator: PayalR
Inst : MS4D
Multiplr: 1.00

Method : C:\msdchem\1\methods\M4D2197.M (RTE Integrator)
Title : SW-846 Method 8260B/8260C



AutoFind: Scans 2301, 2302, 2303; Background Corrected with Scan 2293

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.5	19752	PASS
75	95	30	60	43.3	51789	PASS
95	95	100	100	100.0	119491	PASS
96	95	5	9	6.5	7724	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	85.5	102117	PASS
175	174	5	9	7.8	7938	PASS
176	174	95	101	97.0	99035	PASS
177	176	5	9	6.6	6498	PASS

Average of 15.151 to 15.162 min.: 4d49228.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	893	48.00	606	62.00	4464	75.00	51789
37.05	4795	49.00	4161	63.00	3309	76.00	4363
38.05	4253	50.00	19752	64.00	343	76.95	800
39.00	1659	51.05	5843	67.00	263	78.00	576
40.00	23	52.00	299	68.00	10875	78.90	2372
42.00	56	55.00	212	69.00	10793	79.95	717
43.05	69	56.00	1321	70.00	869	80.90	2658
44.00	390	57.00	2624	71.00	51	81.95	627
45.00	864	58.00	210	72.05	572	83.00	15
46.10	54	60.00	1026	73.00	4472	84.00	57
47.00	1773	61.00	4564	74.00	16634	85.90	91

Average of 15.151 to 15.162 min.: 4d49228.D\data.ms

BFB

Modified:subtracted

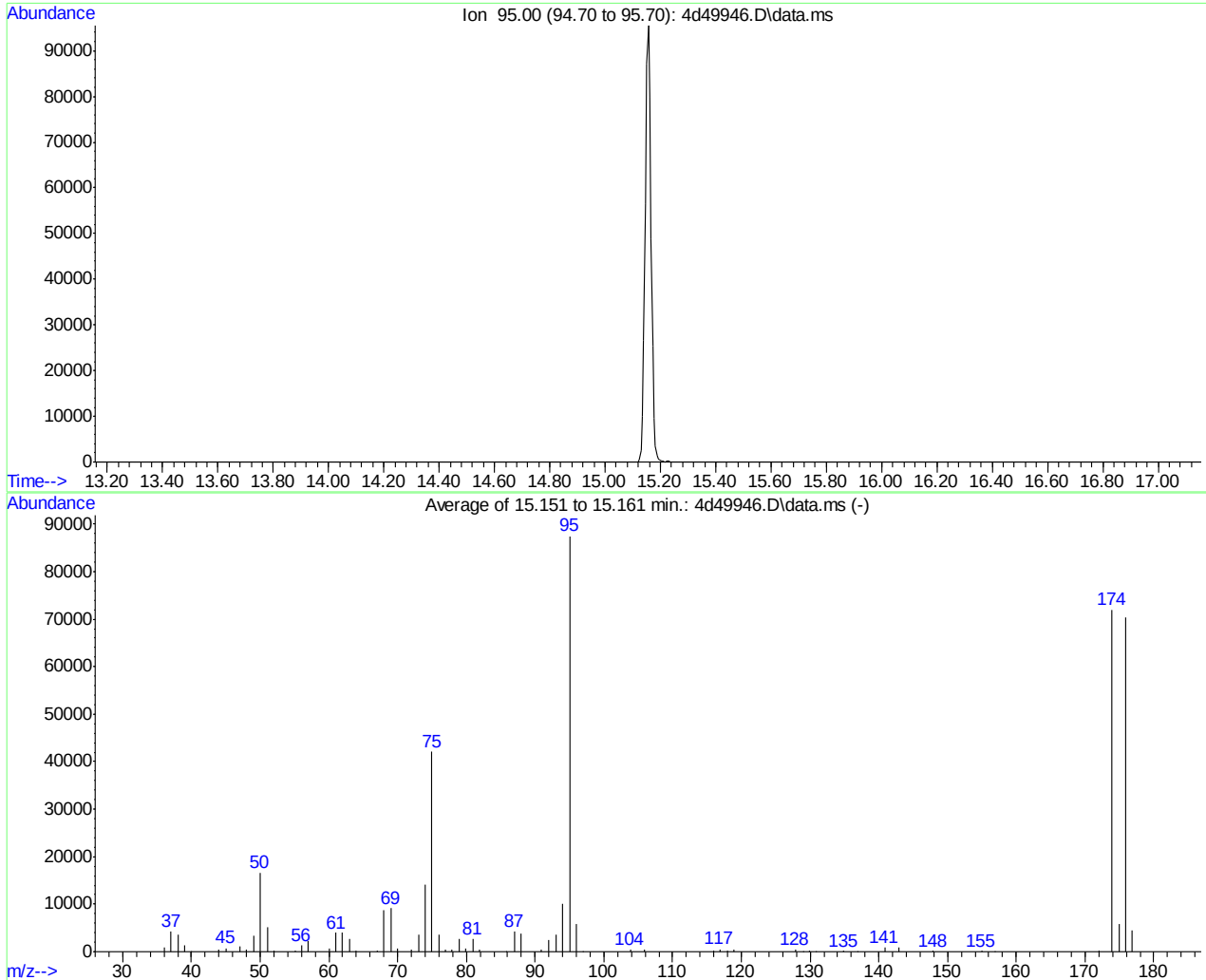
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
86.20	59	103.90	447	130.90	113	171.80	61
87.00	6446	104.95	171	132.95	126	173.90	102117
88.00	6305	105.90	373	134.90	183	175.00	7938
90.95	448	106.90	62	136.90	63	175.90	99035
92.00	2807	115.90	371	140.90	868	176.95	6498
93.00	4339	116.90	539	141.90	61	177.95	197
94.00	12394	117.90	372	142.90	892	190.90	50
95.00	119491	118.90	552	145.95	126	192.90	66
96.00	7724	127.90	408	147.85	277	207.00	53
97.05	374	128.95	203	154.90	274		
98.10	59	129.90	400	156.90	206		

SW-846 Method 8260

Data File : C:\msdchem\1\data\4d49946.D
Acq On : 3 Jul 2014 9:43 am
Sample : bfb
Misc : MS69975,V4D2227,5,,,1
MS Integration Params: rteint5.p

Vial: 1
Operator: PayalR
Inst : MS4D
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\M4D2197.M (RTE Integrator)
Title : SW-846 Method 8260B/8260C



AutoFind: Scans 2301, 2302, 2303; Background Corrected with Scan 2293

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.0	16632	PASS
75	95	30	60	48.1	42069	PASS
95	95	100	100	100.0	87488	PASS
96	95	5	9	6.6	5802	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	82.2	71939	PASS
175	174	5	9	8.0	5728	PASS
176	174	95	101	97.7	70269	PASS
177	176	5	9	6.5	4568	PASS

Average of 15.151 to 15.161 min.: 4d49946.D\data.ms

bfb

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	819	51.05	5237	68.00	8775	79.95	730
37.05	4251	52.00	212	69.00	9127	80.90	2643
38.05	3595	55.05	252	70.05	661	81.90	562
39.05	1432	56.00	1273	71.95	460	85.80	50
40.00	30	57.00	2328	73.00	3622	87.00	4230
44.00	533	60.00	770	74.00	14016	88.00	3904
45.00	756	61.00	3945	75.00	42069	90.95	358
47.00	1208	62.00	3933	76.00	3527	92.00	2389
48.00	516	63.00	2785	77.00	537	93.00	3611
49.00	3443	64.00	263	77.95	425	94.00	10016
50.00	16632	67.05	226	78.90	2586	95.00	87488

Average of 15.151 to 15.161 min.: 4d49946.D\data.ms

bfb

Modified:subtracted

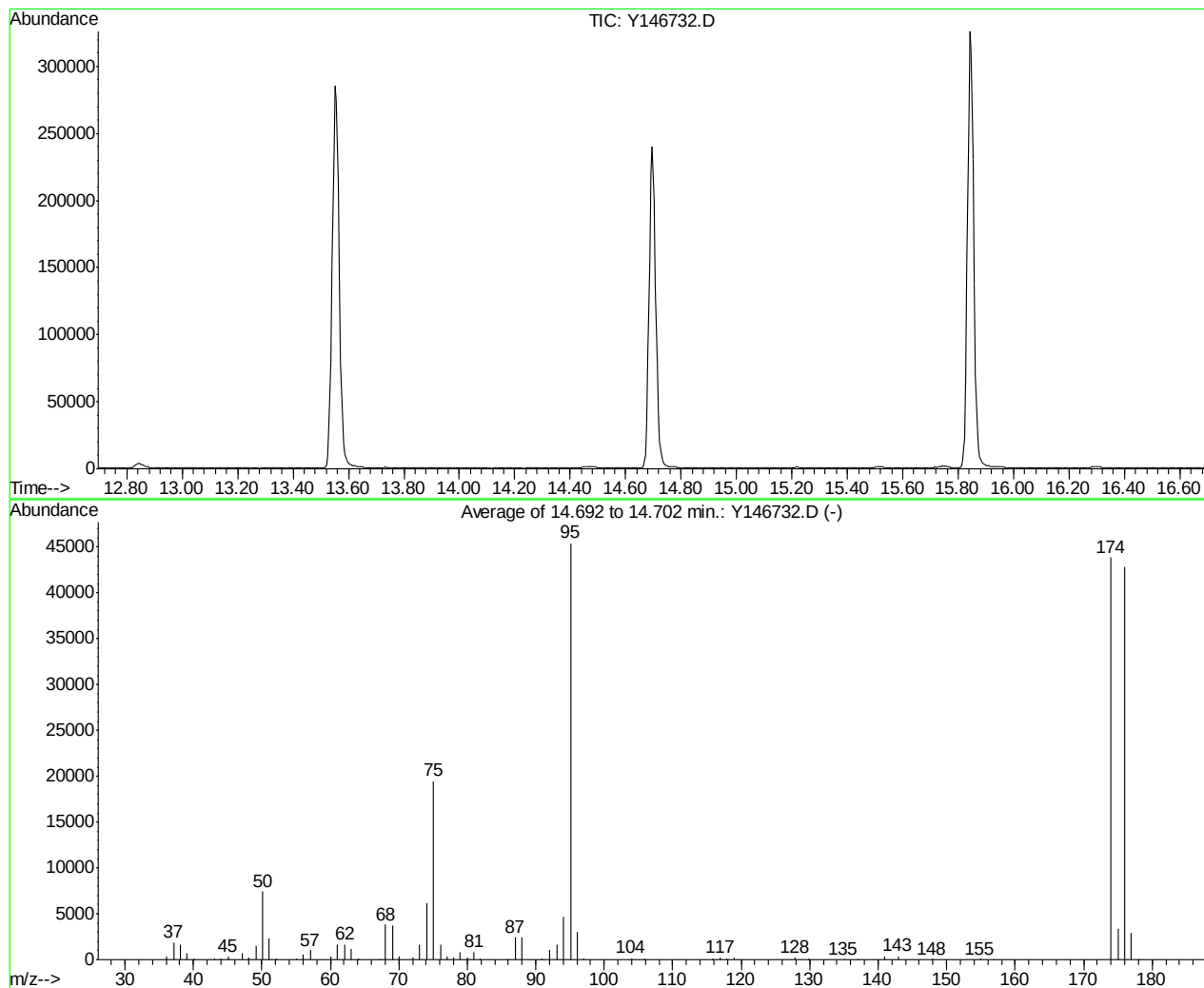
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
96.00	5802	130.90	51	175.90	70269		
96.95	113	134.90	124	176.90	4568		
103.85	371	136.90	105				
105.90	350	140.90	898				
115.90	283	142.90	823				
116.90	557	147.90	212				
117.95	328	154.95	224				
118.95	433	156.90	54				
127.85	362	172.00	191				
128.90	113	173.90	71939				
129.85	293	174.95	5728				

SW-846 Method 8260

Data File : C:\MSDCHEM\1\DATA\Y146732.D
 Acq On : 24 Jun 2014 10:07 am
 Sample : BFB
 Misc : MS69428,VY6377,5.0,,,,,1
 MS Integration Params: RTEINT.P

Vial: 1
 Operator: prashans
 Inst : MSY
 Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\MYS6377.M (RTE Integrator)
 Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um



AutoFind: Scans 2231, 2232, 2233; Background Corrected with Scan 2222

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.3	7405	PASS
75	95	30	60	42.8	19448	PASS
95	95	100	100	100.0	45440	PASS
96	95	5	9	6.6	3021	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	96.5	43845	PASS
175	174	5	9	7.7	3358	PASS
176	174	95	101	97.8	42872	PASS
177	176	5	9	6.7	2860	PASS

Y146732.D MYS6377.M Wed Jun 25 11:35:55 2014 RPT1

Average of 14.692 to 14.702 min.: Y146732.D

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.10	384	50.10	7405	67.20	53	78.95	874
37.10	1873	51.10	2280	68.05	3787	80.00	262
38.10	1622	52.05	115	69.05	3738	80.95	834
39.10	696	55.10	179	70.05	317	81.95	177
40.05	108	56.05	572	72.05	191	86.00	40
43.10	79	57.05	1004	73.05	1661	87.00	2421
44.05	108	60.05	373	74.10	6211	88.00	2392
45.10	346	61.05	1602	75.10	19448	90.95	142
47.10	736	62.10	1684	76.10	1578	92.00	1056
48.05	229	63.05	1196	77.00	296	93.05	1587
49.10	1479	64.10	103	78.00	243	94.05	4676

Average of 14.692 to 14.702 min.: Y146732.D

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
95.10	45440	135.00	39	178.00	35		
96.05	3021	137.00	35				
97.05	77	140.90	321				
103.95	166	142.95	376				
105.95	138	147.95	83				
115.90	85	154.90	75				
116.95	218	156.90	36				
117.95	89	174.00	43845				
119.00	212	175.00	3358				
127.90	192	176.00	42872				
129.95	134	177.00	2860				

7.5.3

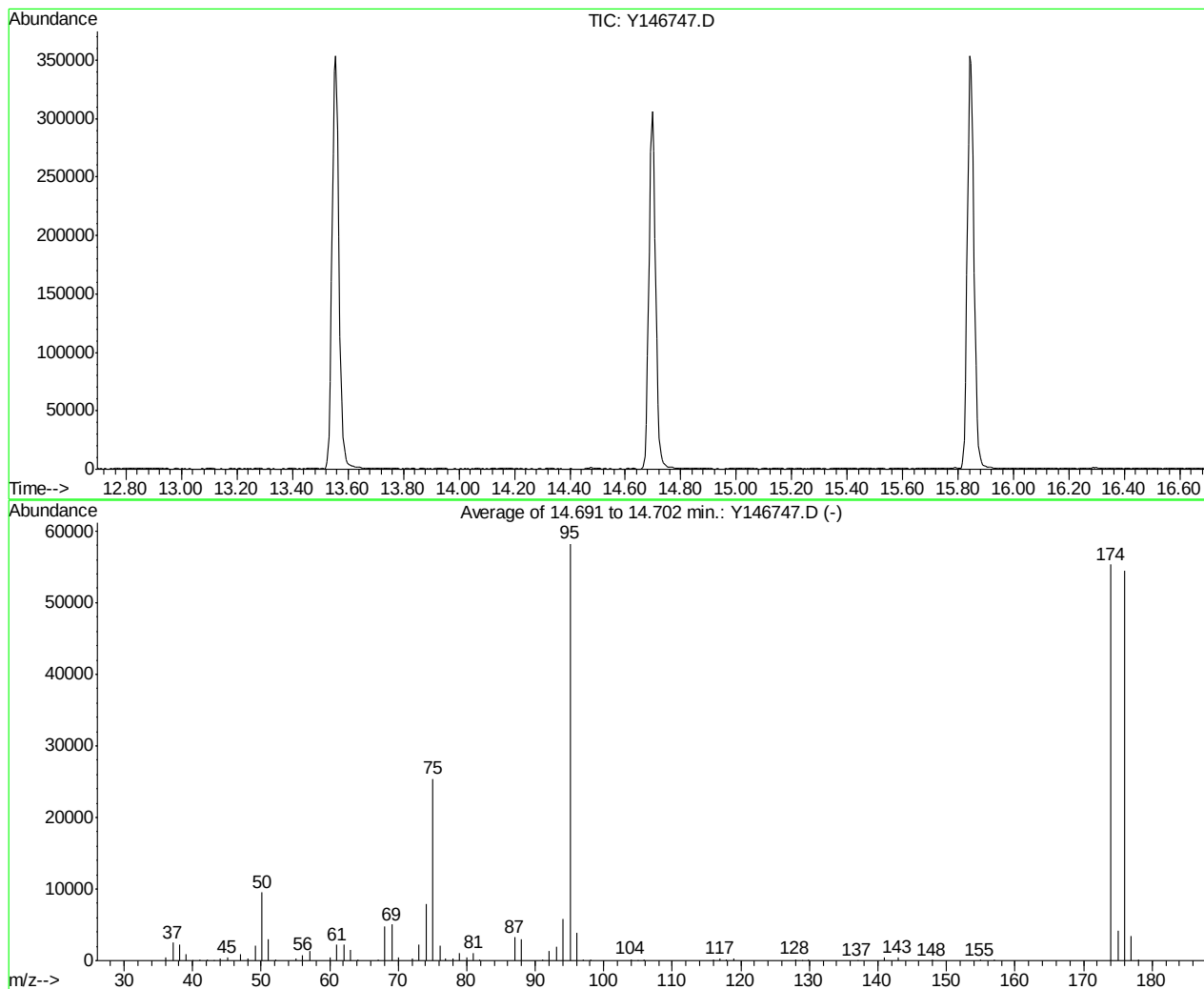
7

SW-846 Method 8260

Data File : C:\MSDCHEM\1\DATA\Y146747.D
Acq On : 25 Jun 2014 9:32 am
Sample : BFB2
Misc : MS69208,VY6377,5.0,,,1
MS Integration Params: RTEINT.P

Vial: 1
Operator: prashans
Inst : MSY
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\MYS6377.M (RTE Integrator)
Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um



AutoFind: Scans 2231, 2232, 2233; Background Corrected with Scan 2222

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.3	9478	PASS
75	95	30	60	43.6	25410	PASS
95	95	100	100	100.0	58253	PASS
96	95	5	9	6.7	3921	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	94.9	55309	PASS
175	174	5	9	7.7	4235	PASS
176	174	95	101	98.5	54496	PASS
177	176	5	9	6.4	3483	PASS

Y146747.D MYS6377.M Wed Jun 25 11:36:22 2014 RPT1

Average of 14.691 to 14.702 min.: Y146747.D

BFB2

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.10	501	48.05	300	63.10	1542	76.95	364
37.10	2482	49.10	2025	64.10	159	77.95	304
38.10	2189	50.10	9478	67.10	175	78.95	1054
39.10	892	51.10	2917	68.05	4833	80.00	381
40.00	62	52.05	125	69.05	5064	80.95	1092
41.10	129	55.10	359	70.10	421	81.95	228
42.15	146	56.05	766	72.05	282	87.00	3233
43.10	42	57.05	1339	73.05	2236	88.00	2973
44.05	345	60.05	442	74.10	7969	91.00	168
45.10	425	61.05	2222	75.10	25410	92.00	1275
47.05	919	62.10	2212	76.10	2153	93.05	2006

Average of 14.691 to 14.702 min.: Y146747.D

BFB2

Modified:subtracted

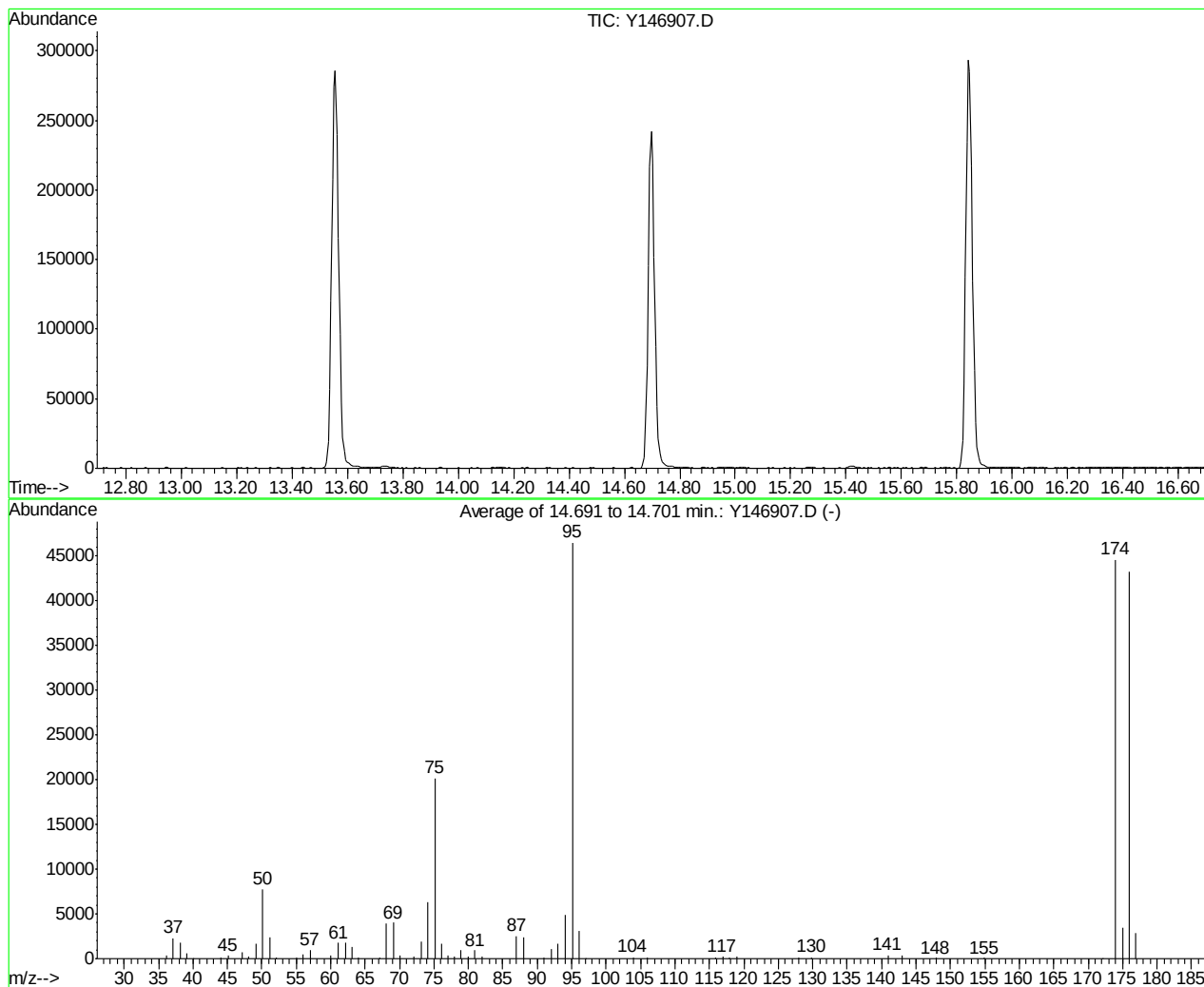
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
94.10	5869	118.95	234	175.00	4235		
95.10	58253	127.95	209	176.00	54496		
96.05	3921	128.90	73	177.00	3483		
97.05	122	129.90	179	178.00	80		
98.05	82	137.00	39				
103.95	202	140.95	430				
104.90	34	142.95	437				
105.95	180	147.95	118				
115.95	166	154.95	148				
116.95	290	156.95	109				
117.90	162	174.00	55309				

SW-846 Method 8260

Data File : C:\MSDCHEM\1\DATA\Y146907.D
Acq On : 1 Jul 2014 3:09 pm
Sample : BFB
Misc : MS69889,VY6385,5.0,,,1
MS Integration Params: RTEINT.P

Vial: 1
Operator: prashans
Inst : MSY
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\MYS6377.M (RTE Integrator)
Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um



AutoFind: Scans 2231, 2232, 2233; Background Corrected with Scan 2223

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.8	7791	PASS
75	95	30	60	43.4	20162	PASS
95	95	100	100	100.0	46477	PASS
96	95	5	9	6.7	3115	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	95.8	44530	PASS
175	174	5	9	7.8	3460	PASS
176	174	95	101	97.1	43237	PASS
177	176	5	9	6.6	2844	PASS

Y146907.D MYS6377.M Wed Jul 02 08:29:38 2014 RPT1

Average of 14.691 to 14.701 min.: Y146907.D

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.10	407	51.10	2358	68.05	3916	80.00	250
37.10	2271	52.05	92	69.10	4022	80.95	922
38.10	1752	55.00	88	70.05	314	82.00	228
39.10	646	56.05	535	72.05	231	87.00	2514
40.00	9	57.05	1000	73.10	1863	88.00	2345
44.00	167	60.05	379	74.05	6354	90.90	160
45.10	329	61.10	1770	75.10	20162	92.00	1092
47.10	740	62.10	1735	76.05	1659	93.05	1652
48.05	283	63.05	1307	77.00	362	94.05	4868
49.10	1700	64.05	141	77.95	245	95.10	46477
50.10	7791	67.10	146	78.95	915	96.05	3115

Average of 14.691 to 14.701 min.: Y146907.D

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
97.00	34	147.90	118				
103.95	151	154.95	86				
105.95	151	172.10	34				
115.95	99	174.00	44530				
116.95	231	175.00	3460				
117.95	159	176.00	43237				
118.95	202	176.95	2844				
127.90	116						
129.85	172						
140.90	365						
142.95	361						

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 4d49229.D
 Acq On : 13 Jun 2014 1:33 pm
 Operator : PayalR
 Sample : ic2197-0.2
 Misc : MS68671,V4D2197,5,,,,,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 13 18:21:17 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M4D2197.M
 Quant Title : SW-846 Method 8260B/8260C
 QLast Update : Wed May 07 08:07:49 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.998	65	153880	500.00	ug/L	0.00
4) pentafluorobenzene	9.588	168	302267	50.00	ug/L	0.00
51) 1,4-difluorobenzene	10.548	114	382964	50.00	ug/L	0.00
83) chlorobenzene-d5	13.919	117	344018	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	16.346	152	179875	50.00	ug/L	0.00
System Monitoring Compounds						
45) dibromofluoromethane (s)	0.000	113	0d	0.00	ug/L	
Spiked Amount	50.000	Range 79 - 120	Recovery	=	0.00%#	
46) 1,2-dichloroethane-d4 (s)	0.000	65	0d	0.00	ug/L	
Spiked Amount	50.000	Range 72 - 123	Recovery	=	0.00%#	
75) toluene-d8 (s)	12.309	98	4291	0.39	ug/L	0.01
Spiked Amount	50.000	Range 78 - 119	Recovery	=	0.78%#	
100) 4-bromofluorobenzene (s)	0.000	95	0d	0.00	ug/L	
Spiked Amount	50.000	Range 74 - 119	Recovery	=	0.00%#	
Target Compounds						
7) chloromethane	3.627	50	1591	0.31	ug/L	77
8) vinyl chloride	3.884	62	1038	0.21	ug/L	93
10) bromomethane	4.576	94	974	0.26	ug/L #	76
24) carbon disulfide	6.636	76	2650	0.22	ug/L	79
29) trans-1,2-dichloroethene	7.475	96	911	0.23	ug/L	79
34) chloroprene	8.267	53	928	0.20	ug/L	60
35) acrylonitrile	7.423	53	1739	1.07	ug/L	95
39) cis-1,2-dichloroethene	8.948	96	936	0.21	ug/L	84
54) cyclohexane	9.745	84	925	0.22	ug/L #	64
59) benzene	10.133	78	2713	0.21	ug/L	95
63) 1,2-dichloroethane	10.128	62	977	0.20	ug/L	87
64) trichloroethene	10.899	95	854	0.24	ug/L #	60
69) 1,2-dichloropropane	11.166	63	767	0.22	ug/L	96
74) cis-1,3-dichloropropene	11.979	75	1066	0.18	ug/L	93
77) toluene	12.388	92	1700	0.21	ug/L	96
84) tetrachloroethene	13.017	166	700	0.18	ug/L	79
85) 1,3-dichloropropane	13.001	76	1216	0.22	ug/L	87
88) 1,2-dibromoethane	13.426	107	888	0.22	ug/L	89
90) chlorobenzene	13.950	112	2018	0.21	ug/L	80
91) 1,1,1,2-tetrachloroethane	14.013	131	738	0.20	ug/L	85
92) ethylbenzene	14.039	91	3393	0.22	ug/L	94
93) m,p-xylene	14.160	106	2274	0.38	ug/L	92
94) o-xylene	14.595	106	1118	0.19	ug/L	76
95) styrene	14.606	104	2219	0.22	ug/L	99
99) isopropylbenzene	14.973	105	3077	0.22	ug/L	90
101) bromobenzene	15.355	156	976	0.22	ug/L	91
106) n-propylbenzene	15.403	91	3998	0.24	ug/L	93
107) 2-chlorotoluene	15.528	126	712	0.19	ug/L	95
108) 4-chlorotoluene	15.639	91	2767	0.25	ug/L	98
109) 1,3,5-trimethylbenzene	15.560	105	2903	0.24	ug/L	94
110) tert-butylbenzene	15.911	119	2220	0.22	ug/L	98
111) pentachloroethane	15.969	167	577	0.20	ug/L #	61

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 4d49229.D
Acq On : 13 Jun 2014 1:33 pm
Operator : PayalR
Sample : ic2197-0.2
Misc : MS68671,V4D2197,5,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 13 18:21:17 2014
Quant Method : C:\MSDCHEM\1\METHODS\M4D2197.M
Quant Title : SW-846 Method 8260B/8260C
QLast Update : Wed May 07 08:07:49 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
112) 1,2,4-trimethylbenzene	15.958	105	3082	0.25	ug/L	93
113) sec-butylbenzene	16.131	105	3574	0.22	ug/L	94
114) 1,3-dichlorobenzene	16.289	146	1899	0.23	ug/L	99
115) p-isopropyltoluene	16.252	119	2828	0.21	ug/L	98
116) 1,4-dichlorobenzene	16.367	146	2056	0.25	ug/L	96
117) 1,2-dichlorobenzene	16.750	146	1897	0.24	ug/L	93
118) n-butylbenzene	16.661	92	1574	0.22	ug/L	94
120) 1,3,5-trichlorobenzene	17.678	180	1519	0.22	ug/L #	84
122) hexachlorobutadiene	18.381	225	621	0.19	ug/L	84
125) hexachloroethane	17.023	119	691	0.24	ug/L #	44

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 4d49230.D
 Acq On : 13 Jun 2014 2:00 pm
 Operator : PayalR
 Sample : ic2197-0.5
 Misc : MS68671,V4D2197,5,,,1
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 13 18:25:36 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M4D2197.M
 Quant Title : SW-846 Method 8260B/8260C
 QLast Update : Wed May 07 08:07:49 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.998	65	156321	500.00	ug/L	0.00
4) pentafluorobenzene	9.588	168	293581	50.00	ug/L	0.00
51) 1,4-difluorobenzene	10.542	114	370487	50.00	ug/L	0.00
83) chlorobenzene-d5	13.914	117	332833	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	16.341	152	174673	50.00	ug/L	0.00

System Monitoring Compounds						
45) dibromofluoromethane (s)	9.578	113	1615	0.39	ug/L	0.01
Spiked Amount	50.000	Range	79 - 120	Recovery	=	0.78%#
46) 1,2-dichloroethane-d4 (s)	10.028	65	1518	0.35	ug/L	0.01
Spiked Amount	50.000	Range	72 - 123	Recovery	=	0.70%#
75) toluene-d8 (s)	12.304	98	4522	0.42	ug/L	0.00
Spiked Amount	50.000	Range	78 - 119	Recovery	=	0.84%#
100) 4-bromofluorobenzene (s)	15.156	95	2817	0.70	ug/L	0.00
Spiked Amount	50.000	Range	74 - 119	Recovery	=	1.40%#

Target Compounds				Qvalue		
5) chlorodifluoromethane	3.344	51	1423	0.52	ug/L	68
6) dichlorodifluoromethane	3.317	85	2355	0.47	ug/L #	49
7) chloromethane	3.627	50	2990	0.60	ug/L	88
8) vinyl chloride	3.878	62	2251	0.47	ug/L	87
10) bromomethane	4.570	94	1979	0.55	ug/L	92
11) chloroethane	4.780	64	974	0.49	ug/L #	44
12) trichlorofluoromethane	5.315	101	2248	0.38	ug/L	96
14) ethyl ether	5.808	74	581	0.33	ug/L #	58
18) 1,1-dichloroethene	6.222	96	1771	0.52	ug/L #	71
22) iodomethane	6.500	142	2677	0.36	ug/L	87
24) carbon disulfide	6.647	76	5292	0.44	ug/L	88
28) methyl tert butyl ether	7.470	73	5039	0.45	ug/L	51
29) trans-1,2-dichloroethene	7.475	96	1935	0.50	ug/L	85
30) di-isopropyl ether	8.193	45	5367	0.52	ug/L	80
31) ethyl tert-butyl ether	8.718	59	4286	0.40	ug/L	89
33) 1,1-dichloroethane	8.125	63	2677	0.40	ug/L	91
34) chloroprene	8.267	53	1701	0.38	ug/L	94
35) acrylonitrile	7.412	53	3575	2.26	ug/L	96
38) 2,2-dichloropropane	8.964	77	2538	0.48	ug/L	74
39) cis-1,2-dichloroethene	8.959	96	2066	0.49	ug/L	83
40) propionitrile	9.032	54	3498	5.42	ug/L	90
42) bromochloromethane	9.279	128	765	0.33	ug/L	85
44) chloroform	9.363	83	3420	0.48	ug/L	97
49) 1,1,1-trichloroethane	9.651	97	2501	0.42	ug/L	79
50) tert-amyl methyl ether	10.217	73	4568	0.43	ug/L	95
54) cyclohexane	9.756	84	1996	0.49	ug/L #	81
56) carbon tetrachloride	9.882	117	1696	0.36	ug/L	95
57) 1,1-dichloropropene	9.855	75	1934	0.45	ug/L	91
59) benzene	10.128	78	6171	0.51	ug/L	96
63) 1,2-dichloroethane	10.128	62	2077	0.44	ug/L	95
64) trichloroethene	10.899	95	1810	0.53	ug/L #	81
67) 2-chloroethyl vinyl ether	11.764	63	5280	2.58	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 4d49230.D
 Acq On : 13 Jun 2014 2:00 pm
 Operator : PayalR
 Sample : ic2197-0.5
 Misc : MS68671,V4D2197,5,,,,,1
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 13 18:25:36 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M4D2197.M
 Quant Title : SW-846 Method 8260B/8260C
 QLast Update : Wed May 07 08:07:49 2014
 Response via : Initial Calibration

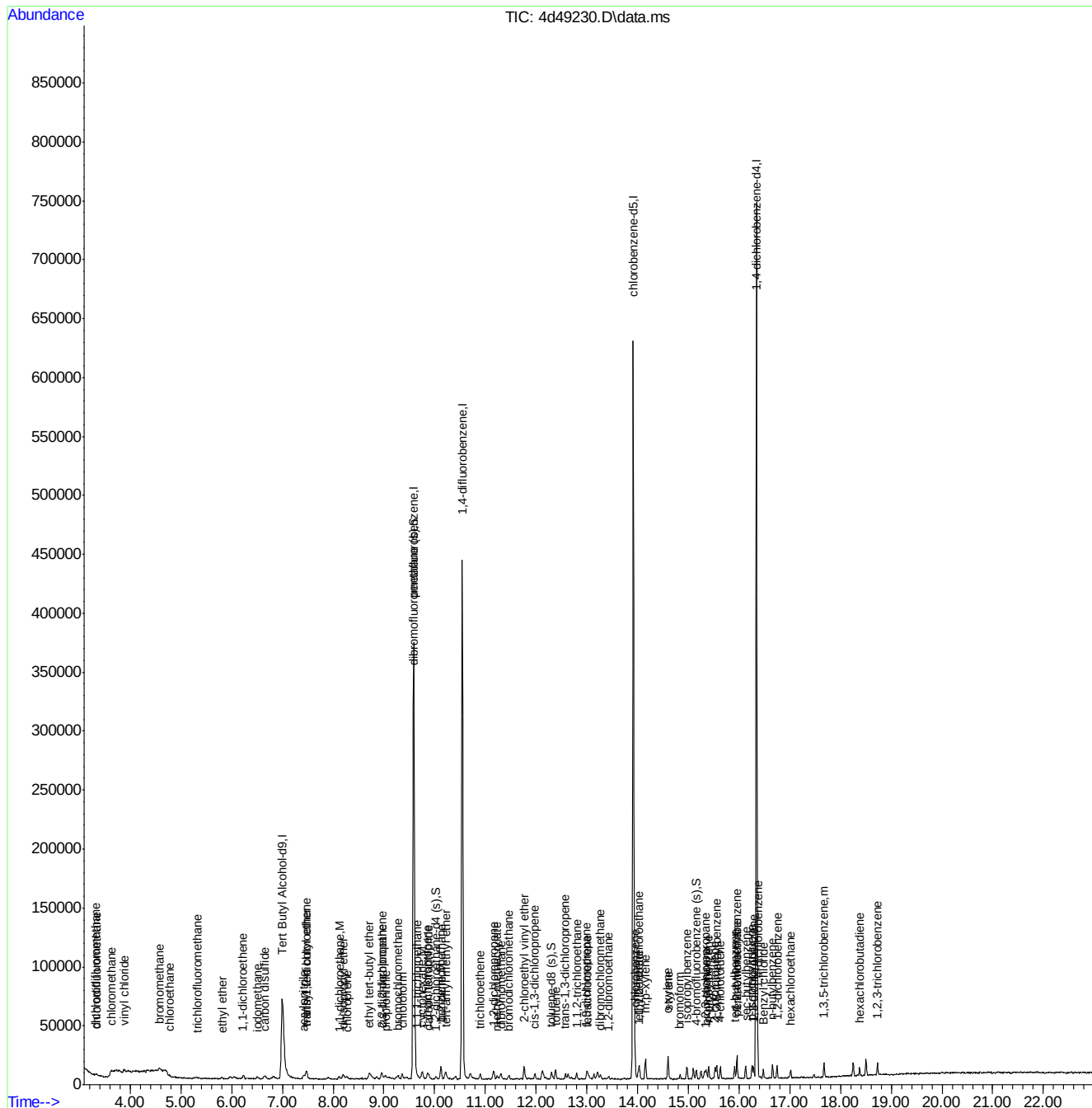
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) methyl methacrylate	11.229	41	1660	0.55	ug/L	96
69) 1,2-dichloropropane	11.161	63	1757	0.51	ug/L	96
72) dibromomethane	11.313	93	1138	0.43	ug/L	93
73) bromodichloromethane	11.465	83	2634	0.54	ug/L	93
74) cis-1,3-dichloropropene	11.974	75	2650	0.46	ug/L	96
77) toluene	12.383	92	3705	0.48	ug/L	90
79) trans-1,3-dichloropropene	12.577	75	2558	0.47	ug/L	90
81) 1,1,2-trichloroethane	12.802	83	1898	0.62	ug/L	88
84) tetrachloroethene	13.012	166	1490	0.40	ug/L	93
85) 1,3-dichloropropane	12.996	76	2643	0.50	ug/L	97
87) dibromochloromethane	13.263	129	2082	0.47	ug/L	77
88) 1,2-dibromoethane	13.421	107	1826	0.47	ug/L	97
90) chlorobenzene	13.950	112	4511	0.49	ug/L	92
91) 1,1,1,2-tetrachloroethane	14.018	131	1775	0.49	ug/L	95
92) ethylbenzene	14.034	91	7202	0.48	ug/L	99
93) m,p-xylene	14.155	106	5418	0.94	ug/L	97
94) o-xylene	14.595	106	2555	0.44	ug/L	82
95) styrene	14.600	104	4989	0.51	ug/L	99
97) bromoform	14.836	173	1607	0.46	ug/L	86
99) isopropylbenzene	14.973	105	7078	0.51	ug/L	96
101) bromobenzene	15.350	156	2071	0.49	ug/L	93
105) 1,2,3-trichloropropane	15.329	110	755	0.62	ug/L	92
106) n-propylbenzene	15.397	91	8813	0.55	ug/L	97
107) 2-chlorotoluene	15.528	126	1989	0.54	ug/L	95
108) 4-chlorotoluene	15.633	91	6167	0.57	ug/L	100
109) 1,3,5-trimethylbenzene	15.560	105	6552	0.55	ug/L	93
110) tert-butylbenzene	15.911	119	5025	0.50	ug/L	99
111) pentachloroethane	15.964	167	1483	0.54	ug/L	95
112) 1,2,4-trimethylbenzene	15.958	105	6499	0.55	ug/L	90
113) sec-butylbenzene	16.131	105	8118	0.52	ug/L	97
114) 1,3-dichlorobenzene	16.289	146	4133	0.52	ug/L	95
115) p-isopropyltoluene	16.252	119	6612	0.51	ug/L	95
116) 1,4-dichlorobenzene	16.367	146	4287	0.54	ug/L	90
117) 1,2-dichlorobenzene	16.750	146	4331	0.55	ug/L	95
118) n-butylbenzene	16.656	92	3538	0.50	ug/L	94
120) 1,3,5-trichlorobenzene	17.673	180	3396	0.51	ug/L	95
122) hexachlorobutadiene	18.375	225	1322	0.41	ug/L	94
124) 1,2,3-trichlorobenzene	18.732	180	3192	0.51	ug/L	94
125) hexachloroethane	17.012	119	1444	0.52	ug/L	96
126) Benzyl chloride	16.477	91	5463	0.66	ug/L	94

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 4d49230.D
Acq On : 13 Jun 2014 2:00 pm
Operator : PayalR
Sample : ic2197-0.5
Misc : MS68671,V4D2197,5,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 13 18:25:36 2014
Quant Method : C:\MSDCHEM\1\METHODS\M4D2197.M
Quant Title : SW-846 Method 8260B/8260C
QLast Update : Wed May 07 08:07:49 2014
Response via : Initial Calibration



M4D2197.M Tue Jun 17 09:06:56 2014 RPT1

Page: 3

7.6.2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 4d49231.D
 Acq On : 13 Jun 2014 2:28 pm
 Operator : PayalR
 Sample : ic2197-1
 Misc : MS68671,V4D2197,5,,,1
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 13 18:27:02 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M4D2197.M
 Quant Title : SW-846 Method 8260B/8260C
 QLast Update : Wed May 07 08:07:49 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.998	65	141203	500.00	ug/L	0.00
4) pentafluorobenzene	9.583	168	275945	50.00	ug/L	0.00
51) 1,4-difluorobenzene	10.542	114	353950	50.00	ug/L	0.00
83) chlorobenzene-d5	13.914	117	313362	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	16.341	152	165542	50.00	ug/L	0.00

System Monitoring Compounds						
45) dibromofluoromethane (s)	9.572	113	2946	0.75	ug/L	0.00
Spiked Amount	50.000	Range	79 - 120	Recovery	=	1.50%#
46) 1,2-dichloroethane-d4 (s)	10.023	65	2857	0.70	ug/L	0.00
Spiked Amount	50.000	Range	72 - 123	Recovery	=	1.40%#
75) toluene-d8 (s)	12.304	98	8673	0.84	ug/L	0.00
Spiked Amount	50.000	Range	78 - 119	Recovery	=	1.68%#
100) 4-bromofluorobenzene (s)	15.156	95	4397	1.16	ug/L	0.00
Spiked Amount	50.000	Range	74 - 119	Recovery	=	2.32%#

Target Compounds				Qvalue		
3) tertiary butyl alcohol	7.145	59	1896	4.65	ug/L	# 1
5) chlorodifluoromethane	3.328	51	2827	1.09	ug/L	88
6) dichlorodifluoromethane	3.318	85	4960	1.05	ug/L	93
7) chloromethane	3.627	50	5273	1.13	ug/L	93
8) vinyl chloride	3.879	62	4618	1.03	ug/L	96
10) bromomethane	4.560	94	3541	1.04	ug/L	95
11) chloroethane	4.775	64	2030	1.09	ug/L	94
12) trichlorofluoromethane	5.310	101	4918	0.87	ug/L	82
14) ethyl ether	5.792	74	1289	0.78	ug/L	# 76
16) 2-chloropropane	5.965	43	5471	1.12	ug/L	# 41
17) acrolein	5.997	56	842469	1045.39	ug/L	100
18) 1,1-dichloroethene	6.217	96	2965	0.93	ug/L	98
20) allyl chloride	6.820	76	1449	0.95	ug/L	# 59
22) iodomethane	6.495	142	4927	0.71	ug/L	95
23) iso-butyl alcohol	9.882	41	1373	10.87	ug/L	87
24) carbon disulfide	6.636	76	9915	0.88	ug/L	97
25) methylene chloride	7.014	84	4150	1.06	ug/L	88
26) 1-chloropropane	7.077	42	5520	1.05	ug/L	# 79
28) methyl tert butyl ether	7.460	73	8901	0.85	ug/L	65
29) trans-1,2-dichloroethene	7.475	96	3064	0.85	ug/L	94
30) di-isopropyl ether	8.188	45	10069	1.03	ug/L	82
31) ethyl tert-butyl ether	8.713	59	7797	0.77	ug/L	91
33) 1,1-dichloroethane	8.115	63	5332	0.85	ug/L	97
34) chloroprene	8.257	53	3232	0.77	ug/L	92
35) acrylonitrile	7.402	53	6744	4.54	ug/L	89
38) 2,2-dichloropropane	8.964	77	4386	0.88	ug/L	96
39) cis-1,2-dichloroethene	8.949	96	3435	0.86	ug/L	94
40) propionitrile	9.017	54	5505	9.07	ug/L	95
42) bromochloromethane	9.274	128	1516	0.70	ug/L	85
44) chloroform	9.363	83	5574	0.84	ug/L	95
48) methacrylonitrile	9.232	41	2513	1.06	ug/L	99
49) 1,1,1-trichloroethane	9.651	97	4426	0.79	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 4d49231.D
 Acq On : 13 Jun 2014 2:28 pm
 Operator : PayalR
 Sample : ic2197-1
 Misc : MS68671,V4D2197,5,,,,,1
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 13 18:27:02 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M4D2197.M
 Quant Title : SW-846 Method 8260B/8260C
 QLast Update : Wed May 07 08:07:49 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) tert-amyl methyl ether	10.217	73	7881	0.78	ug/L	97
52) epichlorohydrin	11.858	57	1899	5.43	ug/L	98
54) cyclohexane	9.746	84	3890	1.00	ug/L	89
56) carbon tetrachloride	9.871	117	3640	0.82	ug/L	85
57) 1,1-dichloropropene	9.850	75	4033	0.99	ug/L	96
58) hexane	7.895	57	2830	1.00	ug/L	90
59) benzene	10.123	78	11325	0.97	ug/L	98
60) ISO-OCTANE	10.202	57	8006	0.90	ug/L	90
61) heptane	10.401	57	2013	1.22	ug/L	93
62) isopropyl acetate	10.113	43	5286	0.97	ug/L #	90
63) 1,2-dichloroethane	10.123	62	3685	0.82	ug/L	91
64) trichloroethene	10.894	95	3038	0.94	ug/L	86
66) 2-nitropropane	11.691	43	945	0.95	ug/L	92
67) 2-chloroethyl vinyl ether	11.764	63	10053	5.15	ug/L	98
68) methyl methacrylate	11.229	41	2336	0.80	ug/L	96
69) 1,2-dichloropropane	11.161	63	3056	0.93	ug/L	94
70) methylcyclohexane	11.161	83	3821	0.92	ug/L	90
72) dibromomethane	11.308	93	2110	0.84	ug/L	83
73) bromodichloromethane	11.460	83	4410	0.94	ug/L	99
74) cis-1,3-dichloropropene	11.974	75	5014	0.92	ug/L	92
76) 4-methyl-2-pentanone	12.115	58	1626	1.07	ug/L #	92
77) toluene	12.383	92	6719	0.91	ug/L	94
78) 3-methyl-1-butanol	12.126	70	3001	34.35	ug/L	85
79) trans-1,3-dichloropropene	12.577	75	4610	0.88	ug/L	94
80) ethyl methacrylate	12.624	69	5504	1.29	ug/L	90
81) 1,1,2-trichloroethane	12.792	83	2843	0.98	ug/L	91
82) 2-hexanone	13.038	58	1513	1.03	ug/L	89
84) tetrachloroethene	13.012	166	2935	0.84	ug/L	97
85) 1,3-dichloropropane	12.996	76	4435	0.89	ug/L	98
86) butyl acetate	13.138	56	2918	1.47	ug/L	85
87) dibromochloromethane	13.264	129	3463	0.82	ug/L	93
88) 1,2-dibromoethane	13.426	107	3133	0.86	ug/L	94
90) chlorobenzene	13.950	112	7570	0.87	ug/L	92
91) 1,1,1,2-tetrachloroethane	14.013	131	2763	0.81	ug/L	90
92) ethylbenzene	14.034	91	13317	0.94	ug/L	99
93) m,p-xylene	14.155	106	9609	1.78	ug/L	92
94) o-xylene	14.601	106	4783	0.88	ug/L	86
95) styrene	14.606	104	8238	0.90	ug/L	97
97) bromoform	14.842	173	2424	0.74	ug/L	96
99) isopropylbenzene	14.973	105	12628	0.96	ug/L	98
101) bromobenzene	15.350	156	3495	0.88	ug/L	92
103) 1,1,2,2-tetrachloroethane	15.251	83	5126	1.01	ug/L	99
104) trans-1,4-dichloro-2-b...	15.303	53	853	0.75	ug/L	83
105) 1,2,3-trichloropropane	15.324	110	1049	0.91	ug/L	92
106) n-propylbenzene	15.398	91	14807	0.97	ug/L	98
107) 2-chlorotoluene	15.529	126	3177	0.91	ug/L	94
108) 4-chlorotoluene	15.628	91	9702	0.94	ug/L	98
109) 1,3,5-trimethylbenzene	15.560	105	10898	0.97	ug/L	96
110) tert-butylbenzene	15.911	119	8920	0.95	ug/L	99
111) pentachloroethane	15.964	167	2262	0.87	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 4d49231.D
Acq On : 13 Jun 2014 2:28 pm
Operator : PayalR
Sample : ic2197-1
Misc : MS68671,V4D2197,5,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 13 18:27:02 2014
Quant Method : C:\MSDCHEM\1\METHODS\M4D2197.M
Quant Title : SW-846 Method 8260B/8260C
QLast Update : Wed May 07 08:07:49 2014
Response via : Initial Calibration

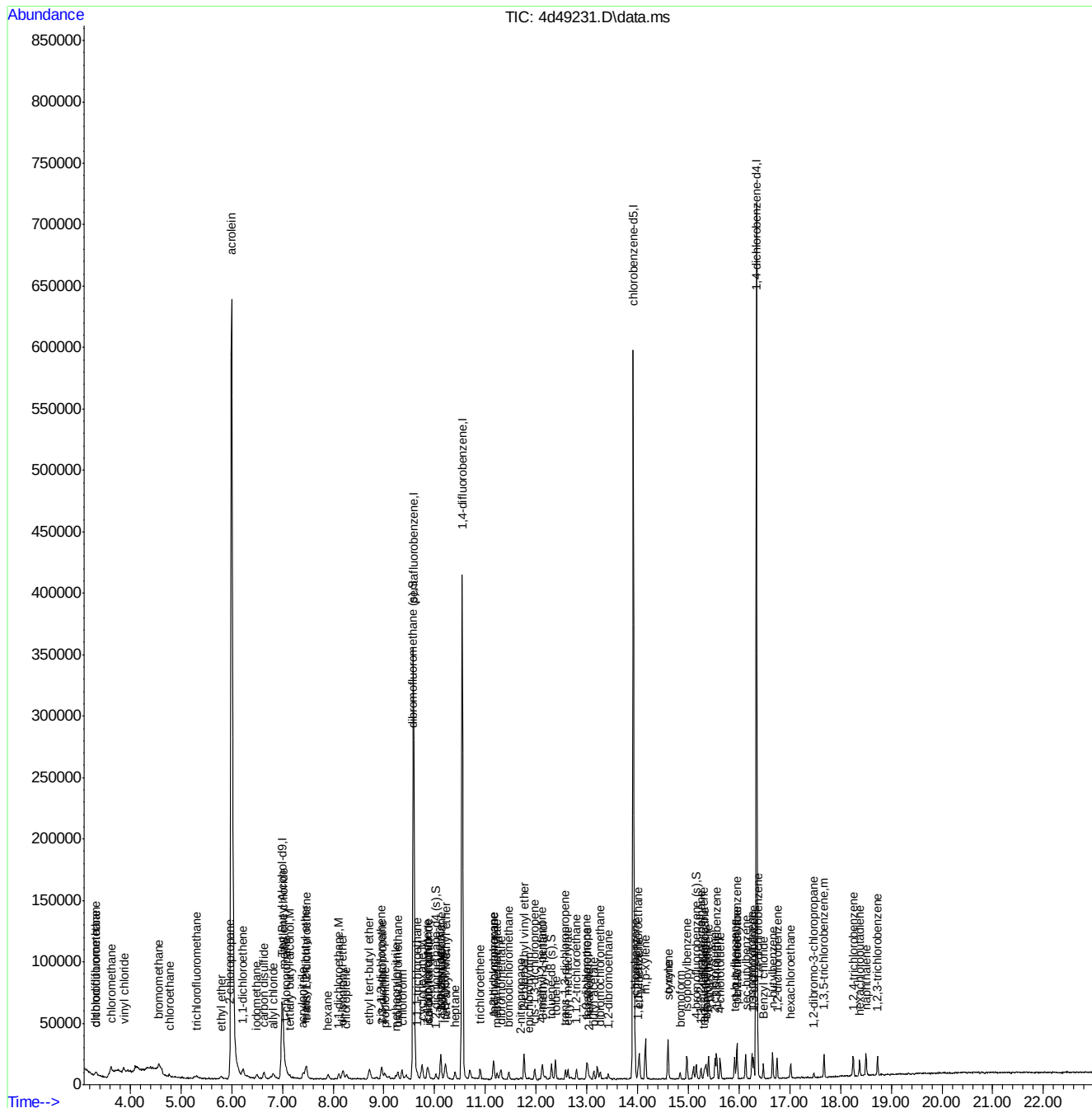
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
112) 1,2,4-trimethylbenzene	15.953	105	10941	0.97	ug/L	98
113) sec-butylbenzene	16.132	105	14199	0.95	ug/L	99
114) 1,3-dichlorobenzene	16.284	146	6731	0.90	ug/L	98
115) p-isopropyltoluene	16.252	119	11437	0.93	ug/L	98
116) 1,4-dichlorobenzene	16.367	146	6456	0.86	ug/L	91
117) 1,2-dichlorobenzene	16.750	146	6335	0.85	ug/L	98
118) n-butylbenzene	16.661	92	6289	0.94	ug/L	96
119) 1,2-dibromo-3-chloropr...	17.474	75	914	0.94	ug/L	91
120) 1,3,5-trichlorobenzene	17.673	180	5233	0.83	ug/L	99
121) 1,2,4-trichlorobenzene	18.250	180	4942	0.80	ug/L	99
122) hexachlorobutadiene	18.376	225	2550	0.83	ug/L	94
123) naphthalene	18.507	128	12788	0.85	ug/L	96
124) 1,2,3-trichlorobenzene	18.727	180	4530	0.76	ug/L	96
125) hexachloroethane	17.018	119	2453	0.94	ug/L	95
126) Benzyl chloride	16.478	91	8172	1.05	ug/L	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 4d49231.D
Acq On : 13 Jun 2014 2:28 pm
Operator : PayalR
Sample : ic2197-1
Misc : MS68671,V4D2197,5,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 13 18:27:02 2014
Quant Method : C:\MSDCHEM\1\METHODS\M4D2197.M
Quant Title : SW-846 Method 8260B/8260C
QLast Update : Wed May 07 08:07:49 2014
Response via : Initial Calibration



M4D2197.M Tue Jun 17 09:07:01 2014 RPT1

Page: 4

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 4d49232.D
 Acq On : 13 Jun 2014 2:55 pm
 Operator : PayalR
 Sample : ic2197-2
 Misc : MS68671,V4D2197,5,,,1
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 13 18:28:40 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M4D2197.M
 Quant Title : SW-846 Method 8260B/8260C
 QLast Update : Wed May 07 08:07:49 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.998	65	145035	500.00	ug/L	0.00
4) pentafluorobenzene	9.588	168	289199	50.00	ug/L	0.00
51) 1,4-difluorobenzene	10.543	114	370634	50.00	ug/L	0.00
83) chlorobenzene-d5	13.914	117	330672	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	16.341	152	171046	50.00	ug/L	0.00

System Monitoring Compounds						
45) dibromofluoromethane (s)	9.573	113	5710	1.39	ug/L	0.00
Spiked Amount	50.000	Range	79 - 120	Recovery	=	2.78%#
46) 1,2-dichloroethane-d4 (s)	10.023	65	5765	1.34	ug/L	0.00
Spiked Amount	50.000	Range	72 - 123	Recovery	=	2.68%#
75) toluene-d8 (s)	12.304	98	18321	1.70	ug/L	0.00
Spiked Amount	50.000	Range	78 - 119	Recovery	=	3.40%#
100) 4-bromofluorobenzene (s)	15.156	95	7881	2.01	ug/L	0.00
Spiked Amount	50.000	Range	74 - 119	Recovery	=	4.02%#

Target Compounds				Qvalue		
2) 1,4-dioxane	11.298	88	1677	49.75	ug/L #	90
3) tertiary butyl alcohol	7.150	59	4655	11.11	ug/L #	33
5) chlorodifluoromethane	3.333	51	7386	2.71	ug/L	93
6) dichlorodifluoromethane	3.323	85	9193	1.86	ug/L	99
7) chloromethane	3.627	50	9679	1.98	ug/L	98
8) vinyl chloride	3.884	62	8740	1.87	ug/L	96
10) bromomethane	4.565	94	6406	1.80	ug/L	98
11) chloroethane	4.770	64	3941	2.01	ug/L	95
12) trichlorofluoromethane	5.320	101	8891	1.51	ug/L	94
14) ethyl ether	5.792	74	2880	1.66	ug/L	93
16) 2-chloropropane	5.965	43	10218	1.99	ug/L #	41
17) acrolein	6.002	56	1609534	1905.68	ug/L	100
18) 1,1-dichloroethene	6.228	96	5925	1.77	ug/L	94
20) allyl chloride	6.820	76	2730	1.70	ug/L #	83
21) acetonitrile	6.762	40	3628	15.31	ug/L #	69
22) iodomethane	6.500	142	10753	1.48	ug/L	95
23) iso-butyl alcohol	9.877	41	2971	22.45	ug/L	88
24) carbon disulfide	6.642	76	20652	1.76	ug/L	99
25) methylene chloride	7.019	84	7623	1.86	ug/L	96
26) 1-chloropropane	7.077	42	10426	1.89	ug/L	92
28) methyl tert butyl ether	7.460	73	18577	1.69	ug/L	86
29) trans-1,2-dichloroethene	7.475	96	6511	1.72	ug/L	92
30) di-isopropyl ether	8.194	45	23355	2.29	ug/L	80
31) ethyl tert-butyl ether	8.713	59	20375	1.92	ug/L	97
32) 2-butanone	8.949	72	748	1.56	ug/L #	33
33) 1,1-dichloroethane	8.115	63	11146	1.69	ug/L	95
34) chloroprene	8.262	53	8771	1.99	ug/L	96
35) acrylonitrile	7.391	53	14397	9.24	ug/L	96
38) 2,2-dichloropropane	8.964	77	9043	1.74	ug/L	94
39) cis-1,2-dichloroethene	8.954	96	7101	1.70	ug/L	96
40) propionitrile	9.012	54	11718	18.42	ug/L	95
41) methyl acrylate	9.090	55	5718	1.56	ug/L #	83

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 4d49232.D
 Acq On : 13 Jun 2014 2:55 pm
 Operator : PayalR
 Sample : ic2197-2
 Misc : MS68671,V4D2197,5,,,1
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 13 18:28:40 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M4D2197.M
 Quant Title : SW-846 Method 8260B/8260C
 QLast Update : Wed May 07 08:07:49 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) bromochloromethane	9.279	128	3350	1.47	ug/L	83
44) chloroform	9.358	83	11516	1.65	ug/L	99
47) freon 113	6.243	151	4104	1.71	ug/L	92
48) methacrylonitrile	9.237	41	4551	1.83	ug/L	97
49) 1,1,1-trichloroethane	9.651	97	8893	1.52	ug/L	92
50) tert-amyl methyl ether	10.217	73	20420	1.93	ug/L	99
52) epichlorohydrin	11.853	57	4495	12.27	ug/L	94
53) n-butyl alcohol	10.695	56	16329	178.80	ug/L	93
54) cyclohexane	9.746	84	8242	2.02	ug/L	90
56) carbon tetrachloride	9.877	117	7591	1.63	ug/L	96
57) 1,1-dichloropropene	9.850	75	7970	1.87	ug/L	93
58) hexane	7.905	57	7550	2.54	ug/L	97
59) benzene	10.128	78	24141	1.98	ug/L	99
60) ISO-OCTANE	10.207	57	22611	2.42	ug/L	95
61) heptane	10.401	57	4653	2.69	ug/L	93
62) isopropyl acetate	10.113	43	13862	2.42	ug/L	95
63) 1,2-dichloroethane	10.118	62	7749	1.64	ug/L	95
64) trichloroethene	10.899	95	6335	1.87	ug/L	94
66) 2-nitropropane	11.696	43	2174	2.08	ug/L	83
67) 2-chloroethyl vinyl ether	11.759	63	27430	13.42	ug/L	98
68) methyl methacrylate	11.224	41	7067	2.32	ug/L	91
69) 1,2-dichloropropane	11.161	63	6473	1.89	ug/L	93
70) methylcyclohexane	11.161	83	10438	2.39	ug/L	98
72) dibromomethane	11.308	93	4537	1.72	ug/L	90
73) bromodichloromethane	11.465	83	8900	1.81	ug/L	93
74) cis-1,3-dichloropropene	11.974	75	10458	1.83	ug/L	98
76) 4-methyl-2-pentanone	12.110	58	3471	2.18	ug/L	95
77) toluene	12.383	92	14290	1.84	ug/L	99
78) 3-methyl-1-butanol	12.126	70	5730	62.63	ug/L	92
79) trans-1,3-dichloropropene	12.577	75	9481	1.73	ug/L	98
80) ethyl methacrylate	12.624	69	10578	2.36	ug/L	100
81) 1,1,2-trichloroethane	12.792	83	5480	1.80	ug/L	97
82) 2-hexanone	13.028	58	3104	2.02	ug/L	97
84) tetrachloroethene	13.012	166	6262	1.71	ug/L	97
85) 1,3-dichloropropane	12.996	76	9641	1.84	ug/L	96
86) butyl acetate	13.133	56	6121	2.92	ug/L	93
87) dibromochloromethane	13.264	129	7245	1.64	ug/L	98
88) 1,2-dibromoethane	13.426	107	6700	1.74	ug/L	96
90) chlorobenzene	13.951	112	16447	1.79	ug/L	99
91) 1,1,1,2-tetrachloroethane	14.013	131	6050	1.69	ug/L	98
92) ethylbenzene	14.034	91	27579	1.85	ug/L	98
93) m,p-xylene	14.155	106	20534	3.60	ug/L	100
94) o-xylene	14.595	106	10356	1.80	ug/L	94
95) styrene	14.606	104	17539	1.81	ug/L	97
97) bromoform	14.837	173	5332	1.54	ug/L	98
99) isopropylbenzene	14.973	105	26607	1.96	ug/L	98
101) bromobenzene	15.350	156	7370	1.79	ug/L	99
102) cyclohexanone	15.099	55	7005	50.84	ug/L	97
103) 1,1,2,2-tetrachloroethane	15.246	83	10698	2.04	ug/L	99
104) trans-1,4-dichloro-2-b...	15.303	53	1673	1.42	ug/L	85

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 4d49232.D
Acq On : 13 Jun 2014 2:55 pm
Operator : PayalR
Sample : ic2197-2
Misc : MS68671,V4D2197,5,,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 13 18:28:40 2014
Quant Method : C:\MSDCHEM\1\METHODS\M4D2197.M
Quant Title : SW-846 Method 8260B/8260C
QLast Update : Wed May 07 08:07:49 2014
Response via : Initial Calibration

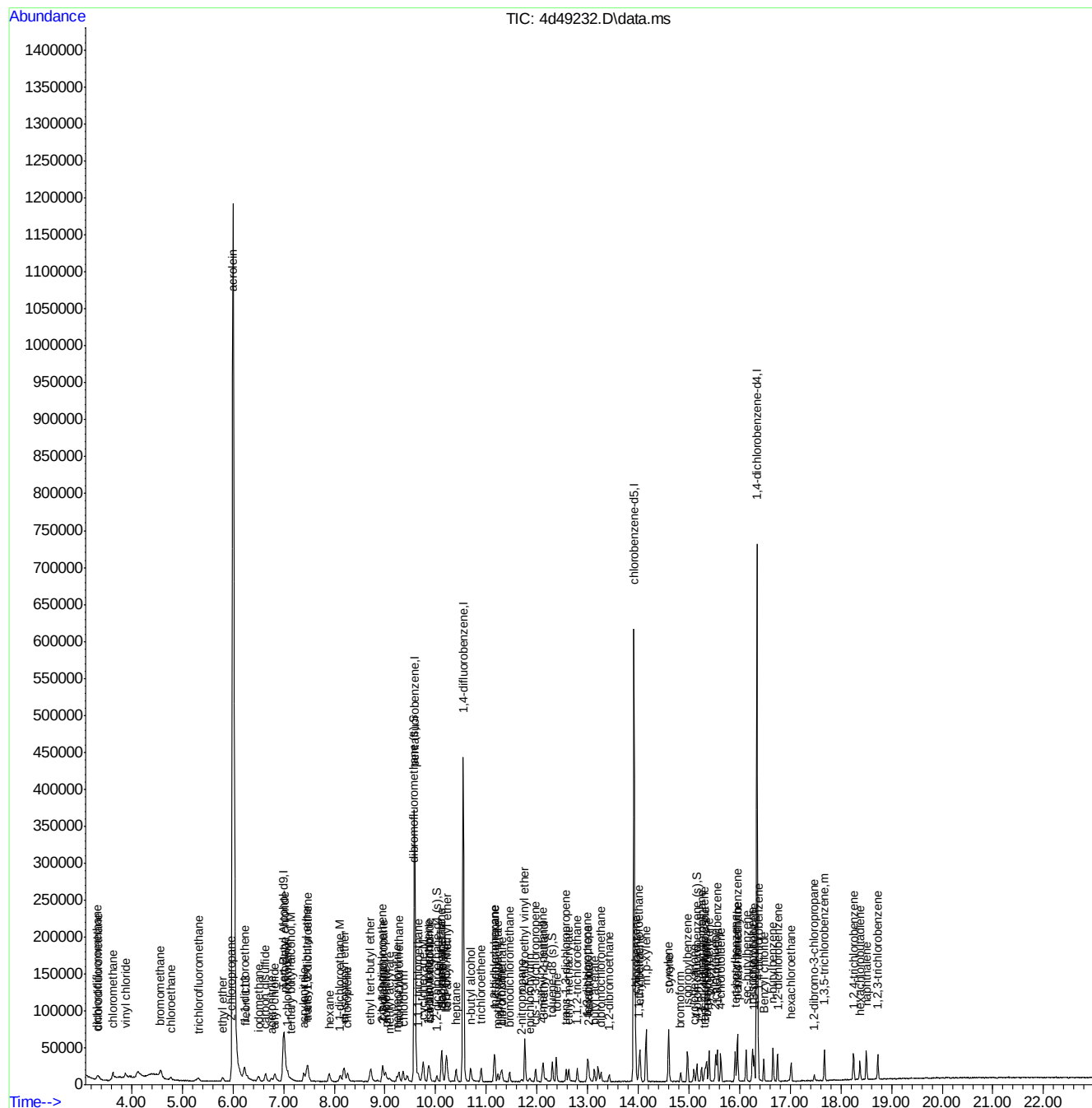
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) 1,2,3-trichloropropane	15.324	110	2337	1.96	ug/L	93
106) n-propylbenzene	15.398	91	31558	2.00	ug/L	97
107) 2-chlorotoluene	15.529	126	6677	1.86	ug/L	94
108) 4-chlorotoluene	15.628	91	20167	1.89	ug/L	98
109) 1,3,5-trimethylbenzene	15.560	105	22872	1.97	ug/L	98
110) tert-butylbenzene	15.911	119	19026	1.95	ug/L	97
111) pentachloroethane	15.964	167	4948	1.84	ug/L	99
112) 1,2,4-trimethylbenzene	15.953	105	23086	1.99	ug/L	98
113) sec-butylbenzene	16.132	105	30300	1.97	ug/L	100
114) 1,3-dichlorobenzene	16.284	146	13776	1.78	ug/L	97
115) p-isopropyltoluene	16.252	119	24529	1.93	ug/L	100
116) 1,4-dichlorobenzene	16.368	146	14068	1.82	ug/L	97
117) 1,2-dichlorobenzene	16.750	146	13894	1.81	ug/L	97
118) n-butylbenzene	16.656	92	13293	1.93	ug/L	94
119) 1,2-dibromo-3-chloropr...	17.474	75	1948	1.93	ug/L	87
120) 1,3,5-trichlorobenzene	17.673	180	11170	1.71	ug/L	99
121) 1,2,4-trichlorobenzene	18.250	180	10562	1.65	ug/L	99
122) hexachlorobutadiene	18.376	225	5144	1.61	ug/L	91
123) naphthalene	18.501	128	27692	1.78	ug/L	97
124) 1,2,3-trichlorobenzene	18.727	180	10117	1.65	ug/L	97
125) hexachloroethane	17.012	119	5280	1.95	ug/L	96
126) Benzyl chloride	16.478	91	20552	2.54	ug/L	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 4d49232.D
Acq On : 13 Jun 2014 2:55 pm
Operator : PayalR
Sample : ic2197-2
Misc : MS68671,V4D2197,5,,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 13 18:28:40 2014
Quant Method : C:\MSDCHEM\1\METHODS\M4D2197.M
Quant Title : SW-846 Method 8260B/8260C
QLast Update : Wed May 07 08:07:49 2014
Response via : Initial Calibration



M4D2197.M Tue Jun 17 09:07:05 2014 RPT1

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7.6.4

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 4d49233.D
 Acq On : 13 Jun 2014 3:22 pm
 Operator : PayalR
 Sample : ic2197-5
 Misc : MS68671,V4D2197,5,,,,,1
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 13 16:04:34 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M4D2197.M
 Quant Title : SW-846 Method 8260B/8260C
 QLast Update : Wed May 07 08:07:49 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.998	65	151480	500.00	ug/L	0.00
4) pentafluorobenzene	9.588	168	290287	50.00	ug/L	0.00
51) 1,4-difluorobenzene	10.542	114	376431	50.00	ug/L	0.00
83) chlorobenzene-d5	13.914	117	333349	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	16.341	152	173917	50.00	ug/L	0.00
System Monitoring Compounds						
45) dibromofluoromethane (s)	9.572	113	16138	3.91	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery =	7.82%#		
46) 1,2-dichloroethane-d4 (s)	10.023	65	16909	3.92	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery =	7.84%#		
75) toluene-d8 (s)	12.304	98	54783	5.02	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery =	10.04%#		
100) 4-bromofluorobenzene (s)	15.156	95	23789	5.98	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery =	11.96%#		
Target Compounds						
2) 1,4-dioxane	11.297	88	4338	123.21	ug/L	71
3) tertiary butyl alcohol	7.145	59	10882	24.87	ug/L	75
5) chlorodifluoromethane	3.333	51	17770	6.51	ug/L	95
6) dichlorodifluoromethane	3.328	85	24689	4.98	ug/L	99
7) chloromethane	3.632	50	26938	5.49	ug/L	99
8) vinyl chloride	3.884	62	25459	5.42	ug/L	96
10) bromomethane	4.576	94	17834	4.98	ug/L	96
11) chloroethane	4.775	64	11136	5.67	ug/L	96
12) trichlorofluoromethane	5.320	101	27332	4.62	ug/L	99
14) ethyl ether	5.792	74	8065	4.64	ug/L	99
16) 2-chloropropane	5.970	43	26224	5.08	ug/L	92
17) acrolein	6.018	56	42423	50.04	ug/L	98
18) 1,1-dichloroethene	6.222	96	15339	4.57	ug/L	97
19) acetone	6.301	43	6327	5.46	ug/L	97
20) allyl chloride	6.820	76	8106	5.03	ug/L	# 82
21) acetonitrile	6.757	40	9331	39.23	ug/L	86
22) iodomethane	6.500	142	29864	4.11	ug/L	99
23) iso-butyl alcohol	9.876	41	7289	54.86	ug/L	97
24) carbon disulfide	6.642	76	56600	4.79	ug/L	99
25) methylene chloride	7.014	84	18971	4.61	ug/L	91
26) 1-chloropropane	7.082	42	27359	4.94	ug/L	98
27) methyl acetate	6.846	74	2646	4.22	ug/L	# 75
28) methyl tert butyl ether	7.459	73	48058	4.35	ug/L	89
29) trans-1,2-dichloroethene	7.475	96	17013	4.47	ug/L	92
30) di-isopropyl ether	8.193	45	54013	5.27	ug/L	89
31) ethyl tert-butyl ether	8.718	59	50467	4.73	ug/L	96
32) 2-butanone	8.943	72	2050	4.25	ug/L	# 89
33) 1,1-dichloroethane	8.115	63	30496	4.61	ug/L	99
34) chloroprene	8.262	53	22166	5.00	ug/L	97
35) acrylonitrile	7.386	53	38240	24.45	ug/L	98
36) vinyl acetate	8.167	86	2260	4.30	ug/L	56
37) ethyl acetate	9.006	45	4017	7.88	ug/L	78

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 4d49233.D
 Acq On : 13 Jun 2014 3:22 pm
 Operator : PayalR
 Sample : ic2197-5
 Misc : MS68671,V4D2197,5,,,,,1
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 13 16:04:34 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M4D2197.M
 Quant Title : SW-846 Method 8260B/8260C
 QLast Update : Wed May 07 08:07:49 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
38) 2,2-dichloropropane	8.964	77	22453	4.30	ug/L	93
39) cis-1,2-dichloroethene	8.948	96	18745	4.46	ug/L	95
40) propionitrile	9.006	54	31035	48.61	ug/L	98
41) methyl acrylate	9.074	55	17148	4.65	ug/L #	91
42) bromochloromethane	9.279	128	9288	4.07	ug/L	90
43) tetrahydrofuran	9.352	42	7232	6.00	ug/L	87
44) chloroform	9.357	83	30175	4.31	ug/L	99
47) freon 113	6.233	151	10671	4.43	ug/L	97
48) methacrylonitrile	9.226	41	12074	4.84	ug/L	95
49) 1,1,1-trichloroethane	9.651	97	24248	4.13	ug/L	96
50) tert-amyl methyl ether	10.217	73	49002	4.62	ug/L	98
52) epichlorohydrin	11.853	57	10036	26.98	ug/L	92
53) n-butyl alcohol	10.684	56	32877	354.46	ug/L	95
54) cyclohexane	9.745	84	22096	5.32	ug/L	93
56) carbon tetrachloride	9.876	117	21106	4.47	ug/L	98
57) 1,1-dichloropropene	9.856	75	22502	5.20	ug/L	97
58) hexane	7.900	57	18608	6.17	ug/L	100
59) benzene	10.123	78	65346	5.26	ug/L	99
60) ISO-OCTANE	10.207	57	56014	5.90	ug/L	95
61) heptane	10.401	57	10911	6.22	ug/L	95
62) isopropyl acetate	10.112	43	33476	5.76	ug/L	98
63) 1,2-dichloroethane	10.118	62	21747	4.54	ug/L	97
64) trichloroethene	10.899	95	17361	5.04	ug/L	94
66) 2-nitropropane	11.696	43	5333	5.02	ug/L	97
67) 2-chloroethyl vinyl ether	11.759	63	65802	31.70	ug/L	96
68) methyl methacrylate	11.224	41	18518	5.99	ug/L	96
69) 1,2-dichloropropane	11.161	63	18026	5.17	ug/L	90
70) methylcyclohexane	11.161	83	25003	5.63	ug/L	98
72) dibromomethane	11.308	93	12187	4.56	ug/L	94
73) bromodichloromethane	11.460	83	23430	4.70	ug/L	96
74) cis-1,3-dichloropropene	11.968	75	27766	4.78	ug/L	99
76) 4-methyl-2-pentanone	12.105	58	8870	5.48	ug/L	96
77) toluene	12.383	92	38735	4.92	ug/L	97
78) 3-methyl-1-butanol	12.126	70	12180	131.08	ug/L	93
79) trans-1,3-dichloropropene	12.577	75	26572	4.78	ug/L	99
80) ethyl methacrylate	12.624	69	26387	5.80	ug/L	98
81) 1,1,2-trichloroethane	12.797	83	14623	4.73	ug/L	94
82) 2-hexanone	13.028	58	8716	5.59	ug/L	98
84) tetrachloroethene	13.012	166	17085	4.61	ug/L	96
85) 1,3-dichloropropane	12.991	76	25716	4.86	ug/L	99
86) butyl acetate	13.132	56	13178	6.24	ug/L	98
87) dibromochloromethane	13.264	129	19752	4.42	ug/L	100
88) 1,2-dibromoethane	13.421	107	17733	4.58	ug/L	97
90) chlorobenzene	13.950	112	44720	4.82	ug/L	97
91) 1,1,1,2-tetrachloroethane	14.013	131	17108	4.74	ug/L	97
92) ethylbenzene	14.034	91	74453	4.96	ug/L	100
93) m,p-xylene	14.155	106	55737	9.70	ug/L	100
94) o-xylene	14.595	106	28434	4.90	ug/L	96
95) styrene	14.600	104	48851	5.00	ug/L	99
97) bromoform	14.842	173	15072	4.32	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 4d49233.D
 Acq On : 13 Jun 2014 3:22 pm
 Operator : PayalR
 Sample : ic2197-5
 Misc : MS68671,V4D2197,5,,,,,1
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 13 16:04:34 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M4D2197.M
 Quant Title : SW-846 Method 8260B/8260C
 QLast Update : Wed May 07 08:07:49 2014
 Response via : Initial Calibration

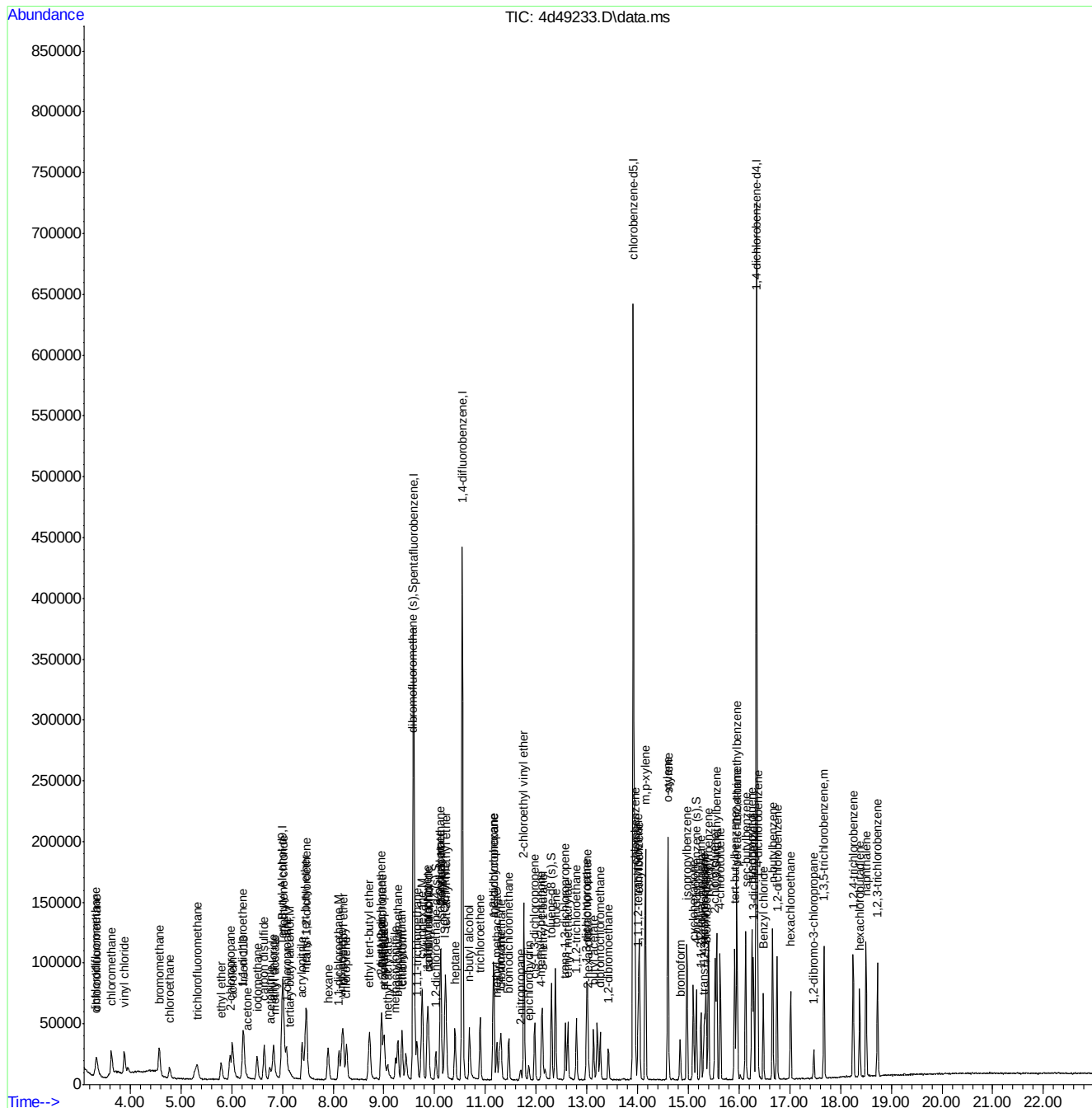
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
99)	isopropylbenzene	14.973	105	73772	5.34	ug/L	98
101)	bromobenzene	15.350	156	19834	4.73	ug/L	99
102)	cyclohexanone	15.099	55	35119	250.69	ug/L	98
103)	1,1,2,2-tetrachloroethane	15.251	83	29492	5.52	ug/L	100
104)	trans-1,4-dichloro-2-b...	15.303	53	4626	3.86	ug/L	84
105)	1,2,3-trichloropropane	15.324	110	6214	5.14	ug/L	89
106)	n-propylbenzene	15.397	91	86696	5.40	ug/L	97
107)	2-chlorotoluene	15.528	126	18592	5.08	ug/L	93
108)	4-chlorotoluene	15.628	91	55738	5.15	ug/L	98
109)	1,3,5-trimethylbenzene	15.560	105	63007	5.34	ug/L	95
110)	tert-butylbenzene	15.911	119	51433	5.19	ug/L	99
111)	pentachloroethane	15.964	167	13738	5.04	ug/L	98
112)	1,2,4-trimethylbenzene	15.953	105	62405	5.29	ug/L	100
113)	sec-butylbenzene	16.131	105	82979	5.31	ug/L	99
114)	1,3-dichlorobenzene	16.289	146	37738	4.80	ug/L	97
115)	p-isopropyltoluene	16.252	119	67132	5.19	ug/L	99
116)	1,4-dichlorobenzene	16.367	146	38525	4.89	ug/L	99
117)	1,2-dichlorobenzene	16.750	146	38358	4.93	ug/L	99
118)	n-butylbenzene	16.661	92	36493	5.21	ug/L	99
119)	1,2-dibromo-3-chloropr...	17.474	75	5262	5.14	ug/L	93
120)	1,3,5-trichlorobenzene	17.673	180	31333	4.71	ug/L	99
121)	1,2,4-trichlorobenzene	18.250	180	29461	4.51	ug/L	99
122)	hexachlorobutadiene	18.381	225	14407	4.44	ug/L	97
123)	naphthalene	18.501	128	78445	4.96	ug/L	100
124)	1,2,3-trichlorobenzene	18.727	180	27918	4.47	ug/L	98
125)	hexachloroethane	17.017	119	14770	5.38	ug/L	97
126)	Benzyl chloride	16.477	91	47521	5.79	ug/L	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 4d49233.D
Acq On : 13 Jun 2014 3:22 pm
Operator : PayalR
Sample : ic2197-5
Misc : MS68671,V4D2197,5,,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 13 16:04:34 2014
Quant Method : C:\MSDCHEM\1\METHODS\M4D2197.M
Quant Title : SW-846 Method 8260B/8260C
QLast Update : Wed May 07 08:07:49 2014
Response via : Initial Calibration



M4D2197.M Tue Jun 17 09:07:10 2014 RPT1

Page: 4

7.6.5

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 4d49234.D
 Acq On : 13 Jun 2014 3:50 pm
 Operator : PayalR
 Sample : ic2197-10
 Misc : MS68671,V4D2197,5,,,1
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 13 16:26:25 2014
 Quant Method : C:\msdchem\1\methods\M4D2197.M
 Quant Title : SW-846 Method 8260B/8260C
 QLast Update : Fri Jun 13 16:25:15 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.998	65	142943	500.00	ug/L	0.00
4) pentafluorobenzene	9.588	168	274000	50.00	ug/L	0.00
51) 1,4-difluorobenzene	10.542	114	353296	50.00	ug/L	0.00
83) chlorobenzene-d5	13.914	117	314023	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	16.341	152	164615	50.00	ug/L	0.00
System Monitoring Compounds						
45) dibromofluoromethane (s)	9.573	113	30861	10.56	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery =	21.12%#		
46) 1,2-dichloroethane-d4 (s)	10.023	65	33026	11.39	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery =	22.78%#		
75) toluene-d8 (s)	12.299	98	105136	11.59	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery =	23.18%#		
100) 4-bromofluorobenzene (s)	15.156	95	42099	9.37	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery =	18.74%#		
Target Compounds						
2) 1,4-dioxane	11.292	88	9318	283.20	ug/L	75
3) tertiary butyl alcohol	7.140	59	23456	56.14	ug/L	87
5) chlorodifluoromethane	3.339	51	35592	11.56	ug/L	95
6) dichlorodifluoromethane	3.333	85	46979	10.25	ug/L	98
7) chloromethane	3.632	50	50819	9.92	ug/L	98
8) vinyl chloride	3.894	62	49901	11.12	ug/L	99
10) bromomethane	4.571	94	33653	9.33	ug/L	98
11) chloroethane	4.775	64	21052	10.79	ug/L	97
12) trichlorofluoromethane	5.326	101	53010	11.49	ug/L	97
14) ethyl ether	5.787	74	16464	12.54	ug/L	98
16) 2-chloropropane	5.971	43	52844	10.41	ug/L	95
17) acrolein	6.007	56	84290	105.37	ug/L	98
18) 1,1-dichloroethene	6.227	96	30668	9.59	ug/L	98
19) acetone	6.290	43	10474	8.77	ug/L	96
20) allyl chloride	6.825	76	15959	11.23	ug/L	93
21) acetonitrile	6.741	40	20265	116.46	ug/L	97
22) iodomethane	6.500	142	60122	11.66	ug/L	98
23) iso-butyl alcohol	9.871	41	14697	106.33	ug/L	93
24) carbon disulfide	6.642	76	114880	11.00	ug/L	99
25) methylene chloride	7.014	84	36691	9.73	ug/L	96
26) 1-chloropropane	7.082	42	53065	10.21	ug/L	98
27) methyl acetate	6.836	74	6134	13.68	ug/L	91
28) methyl tert butyl ether	7.460	73	97225	10.77	ug/L	95
29) trans-1,2-dichloroethene	7.475	96	33023	9.67	ug/L	98
30) di-isopropyl ether	8.194	45	109358	10.60	ug/L	94
31) ethyl tert-butyl ether	8.713	59	104956	11.28	ug/L	96
32) 2-butanone	8.933	72	4322	11.66	ug/L	91
33) 1,1-dichloroethane	8.115	63	60741	11.39	ug/L	99
34) chloroprene	8.262	53	44474	11.75	ug/L	99
35) acrylonitrile	7.381	53	76967	54.52	ug/L	100
36) vinyl acetate	8.157	86	4919	12.56	ug/L	85
37) ethyl acetate	8.996	45	7235	7.09	ug/L	95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 4d49234.D
 Acq On : 13 Jun 2014 3:50 pm
 Operator : PayalR
 Sample : ic2197-10
 Misc : MS68671,V4D2197,5,,,1
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 13 16:26:25 2014
 Quant Method : C:\msdchem\1\methods\M4D2197.M
 Quant Title : SW-846 Method 8260B/8260C
 QLast Update : Fri Jun 13 16:25:15 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
38) 2,2-dichloropropane	8.970	77	44467	10.10	ug/L	99
39) cis-1,2-dichloroethene	8.949	96	36576	9.93	ug/L	97
40) propionitrile	9.001	54	61298	104.76	ug/L	98
41) methyl acrylate	9.069	55	34670	11.66	ug/L #	95
42) bromochloromethane	9.274	128	18439	11.76	ug/L	87
43) tetrahydrofuran	9.347	42	13585	6.95	ug/L	90
44) chloroform	9.358	83	58363	10.12	ug/L	98
47) freon 113	6.243	151	22413	13.09	ug/L	97
48) methacrylonitrile	9.226	41	23651	10.24	ug/L	94
49) 1,1,1-trichloroethane	9.651	97	48164	10.79	ug/L	99
50) tert-amyl methyl ether	10.217	73	101357	10.38	ug/L	98
52) epichlorohydrin	11.853	57	21950	55.60	ug/L	98
53) n-butyl alcohol	10.684	56	67316	482.42	ug/L	99
54) cyclohexane	9.746	84	45078	11.25	ug/L	97
56) carbon tetrachloride	9.877	117	42938	11.89	ug/L	99
57) 1,1-dichloropropene	9.850	75	44849	11.40	ug/L	97
58) hexane	7.900	57	37737	11.42	ug/L	98
59) benzene	10.123	78	128284	10.81	ug/L	99
60) ISO-OCTANE	10.212	57	118638	12.15	ug/L	95
61) heptane	10.401	57	21730	10.39	ug/L	96
62) isopropyl acetate	10.107	43	70772	11.69	ug/L	98
63) 1,2-dichloroethane	10.118	62	42929	10.77	ug/L	99
64) trichloroethene	10.899	95	34420	10.30	ug/L	95
66) 2-nitropropane	11.696	43	11528	11.60	ug/L	96
67) 2-chloroethyl vinyl ether	11.759	63	139620	61.33	ug/L	97
68) methyl methacrylate	11.219	41	33066	10.72	ug/L	97
69) 1,2-dichloropropane	11.161	63	35862	10.93	ug/L	93
70) methylcyclohexane	11.161	83	52421	12.55	ug/L	95
72) dibromomethane	11.308	93	24119	11.06	ug/L	96
73) bromodichloromethane	11.460	83	46803	9.52	ug/L	95
74) cis-1,3-dichloropropene	11.974	75	56987	11.32	ug/L	98
76) 4-methyl-2-pentanone	12.105	58	17300	10.50	ug/L	94
77) toluene	12.378	92	77684	10.88	ug/L	97
78) 3-methyl-1-butanol	12.121	70	24705	184.99	ug/L	96
79) trans-1,3-dichloropropene	12.572	75	52817	11.13	ug/L	98
80) ethyl methacrylate	12.624	69	49895	8.74	ug/L	97
81) 1,1,2-trichloroethane	12.797	83	28791	9.75	ug/L	100
82) 2-hexanone	13.028	58	16635	10.79	ug/L	95
84) tetrachloroethene	13.012	166	34037	11.24	ug/L	97
85) 1,3-dichloropropane	12.991	76	52148	10.68	ug/L	98
86) butyl acetate	13.133	56	28312	10.22	ug/L	99
87) dibromochloromethane	13.264	129	39419	10.83	ug/L	98
88) 1,2-dibromoethane	13.421	107	35298	10.28	ug/L	96
90) chlorobenzene	13.950	112	88180	10.61	ug/L	98
91) 1,1,1,2-tetrachloroethane	14.013	131	33676	10.81	ug/L	98
92) ethylbenzene	14.034	91	149355	10.74	ug/L	100
93) m,p-xylene	14.155	106	111895	22.17	ug/L	98
94) o-xylene	14.595	106	56122	11.23	ug/L	96
95) styrene	14.601	104	95576	10.54	ug/L	99
97) bromoform	14.837	173	29611	10.93	ug/L	99

7.6.6

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 4d49234.D
 Acq On : 13 Jun 2014 3:50 pm
 Operator : PayalR
 Sample : ic2197-10
 Misc : MS68671,V4D2197,5,,,,,1
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 13 16:26:25 2014
 Quant Method : C:\msdchem\1\methods\M4D2197.M
 Quant Title : SW-846 Method 8260B/8260C
 QLast Update : Fri Jun 13 16:25:15 2014
 Response via : Initial Calibration

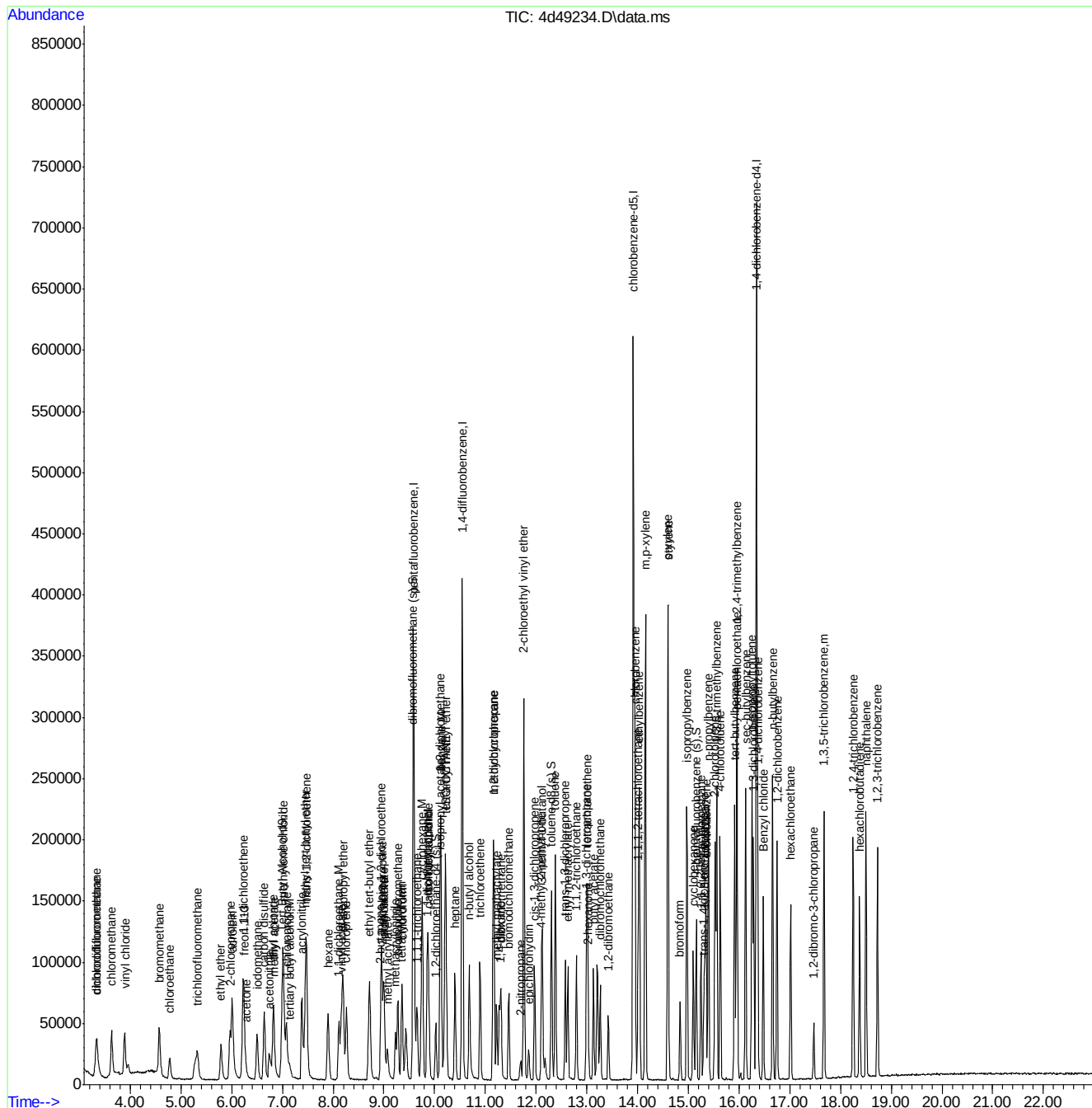
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
99)	isopropylbenzene	14.973	105	146599	10.98	ug/L	99
101)	bromobenzene	15.350	156	39073	10.20	ug/L	98
102)	cyclohexanone	15.099	55	46258	92.34	ug/L	98
103)	1,1,2,2-tetrachloroethane	15.245	83	55288	10.48	ug/L	98
104)	trans-1,4-dichloro-2-b...	15.303	53	9369	11.11	ug/L	87
105)	1,2,3-trichloropropane	15.324	110	11676	9.80	ug/L	96
106)	n-propylbenzene	15.398	91	172423	10.61	ug/L	99
107)	2-chlorotoluene	15.529	126	35947	10.64	ug/L	92
108)	4-chlorotoluene	15.628	91	107961	9.96	ug/L	98
109)	1,3,5-trimethylbenzene	15.560	105	125386	10.55	ug/L	99
110)	tert-butylbenzene	15.911	119	103802	10.95	ug/L	98
111)	pentachloroethane	15.964	167	26864	10.60	ug/L	98
112)	1,2,4-trimethylbenzene	15.953	105	123110	10.23	ug/L	99
113)	sec-butylbenzene	16.132	105	164122	10.79	ug/L	99
114)	1,3-dichlorobenzene	16.284	146	74043	10.02	ug/L	98
115)	p-isopropyltoluene	16.252	119	134424	10.97	ug/L	98
116)	1,4-dichlorobenzene	16.368	146	74525	9.81	ug/L	96
117)	1,2-dichlorobenzene	16.750	146	74222	10.01	ug/L	97
118)	n-butylbenzene	16.661	92	72201	10.80	ug/L	99
119)	1,2-dibromo-3-chloropr...	17.474	75	10193	10.76	ug/L	99
120)	1,3,5-trichlorobenzene	17.673	180	61079	10.23	ug/L	99
121)	1,2,4-trichlorobenzene	18.250	180	57342	11.05	ug/L	99
122)	hexachlorobutadiene	18.376	225	29347	11.23	ug/L	99
123)	naphthalene	18.501	128	151475	11.11	ug/L	100
124)	1,2,3-trichlorobenzene	18.727	180	55416	10.72	ug/L	99
125)	hexachloroethane	17.018	119	29595	10.83	ug/L	97
126)	Benzyl chloride	16.478	91	97884	10.49	ug/L	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 4d49234.D
Acq On : 13 Jun 2014 3:50 pm
Operator : PayalR
Sample : ic2197-10
Misc : MS68671,V4D2197,5,,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 13 16:26:25 2014
Quant Method : C:\msdchem\1\methods\M4D2197.M
Quant Title : SW-846 Method 8260B/8260C
QLast Update : Fri Jun 13 16:25:15 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 4d49235.D
 Acq On : 13 Jun 2014 4:17 pm
 Operator : PayalR
 Sample : ic2197-20
 Misc : MS68671,V4D2197,5,,,,,1
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 13 16:58:31 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M4D2197.M
 Quant Title : SW-846 Method 8260B/8260C
 QLast Update : Fri Jun 13 16:26:41 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.998	65	150623	500.00	ug/L	0.00
4) pentafluorobenzene	9.583	168	290878	50.00	ug/L	0.00
51) 1,4-difluorobenzene	10.542	114	370926	50.00	ug/L	0.00
83) chlorobenzene-d5	13.914	117	331531	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	16.341	152	171031	50.00	ug/L	0.00
System Monitoring Compounds						
45) dibromofluoromethane (s)	9.567	113	149551	47.67	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery =	95.34%		
46) 1,2-dichloroethane-d4 (s)	10.018	65	162326	51.32	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery =	102.64%		
75) toluene-d8 (s)	12.299	98	510681	51.96	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery =	103.92%		
100) 4-bromofluorobenzene (s)	15.156	95	202027	43.82	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery =	87.64%		
Target Compounds						
2) 1,4-dioxane	11.292	88	17760	490.54	ug/L	73
3) tertiary butyl alcohol	7.134	59	42585	93.85	ug/L	92
5) chlorodifluoromethane	3.333	51	65237	19.35	ug/L	99
6) dichlorodifluoromethane	3.333	85	88570	18.11	ug/L	98
7) chloromethane	3.632	50	99567	18.34	ug/L	99
8) vinyl chloride	3.889	62	95130	19.60	ug/L	99
10) bromomethane	4.571	94	65499	17.31	ug/L	99
11) chloroethane	4.775	64	41320	19.64	ug/L	98
12) trichlorofluoromethane	5.320	101	102393	20.30	ug/L	96
14) ethyl ether	5.787	74	32990	22.53	ug/L	96
16) 2-chloropropane	5.965	43	97466	17.91	ug/L	92
17) acrolein	6.007	56	165029	191.75	ug/L	100
18) 1,1-dichloroethene	6.222	96	56541	16.77	ug/L	94
19) acetone	6.280	43	20530	17.25	ug/L	96
20) allyl chloride	6.820	76	29370	18.89	ug/L	83
21) acetonitrile	6.736	40	39513	202.77	ug/L	99
22) iodomethane	6.495	142	116823	20.66	ug/L	96
23) iso-butyl alcohol	9.871	41	26943	180.75	ug/L	88
24) carbon disulfide	6.636	76	216019	19.17	ug/L	99
25) methylene chloride	7.014	84	69757	17.54	ug/L	91
26) 1-chloropropane	7.077	42	102158	18.42	ug/L	98
27) methyl acetate	6.825	74	11954	22.37	ug/L	90
28) methyl tert butyl ether	7.460	73	189589	19.48	ug/L	96
29) trans-1,2-dichloroethene	7.470	96	63752	17.68	ug/L	96
30) di-isopropyl ether	8.188	45	207405	18.71	ug/L	95
31) ethyl tert-butyl ether	8.713	59	200838	19.91	ug/L	97
32) 2-butanone	8.933	72	8964	21.59	ug/L	89
33) 1,1-dichloroethane	8.115	63	117075	20.12	ug/L	100
34) chloroprene	8.262	53	84562	20.44	ug/L	99
35) acrylonitrile	7.376	53	147889	97.22	ug/L	98
36) vinyl acetate	8.152	86	10334	22.90	ug/L	75
37) ethyl acetate	8.996	45	13021	13.31	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 4d49235.D
 Acq On : 13 Jun 2014 4:17 pm
 Operator : PayalR
 Sample : ic2197-20
 Misc : MS68671,V4D2197,5,,,1
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 13 16:58:31 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M4D2197.M
 Quant Title : SW-846 Method 8260B/8260C
 QLast Update : Fri Jun 13 16:26:41 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
38) 2,2-dichloropropane	8.970	77	84166	17.97	ug/L	98
39) cis-1,2-dichloroethene	8.949	96	69857	17.89	ug/L	96
40) propionitrile	9.001	54	118282	188.62	ug/L	99
41) methyl acrylate	9.064	55	70217	21.08	ug/L #	96
42) bromochloromethane	9.274	128	36201	21.00	ug/L	89
43) tetrahydrofuran	9.347	42	24078	12.91	ug/L	96
44) chloroform	9.357	83	113864	18.55	ug/L	98
47) freon 113	6.238	151	41504	21.20	ug/L	93
48) methacrylonitrile	9.221	41	46740	18.95	ug/L	95
49) 1,1,1-trichloroethane	9.651	97	90604	18.82	ug/L	99
50) tert-amyl methyl ether	10.217	73	190766	18.29	ug/L	99
52) epichlorohydrin	11.853	57	40560	95.19	ug/L	99
53) n-butyl alcohol	10.679	56	117313	810.26	ug/L	99
54) cyclohexane	9.751	84	83450	19.43	ug/L	95
56) carbon tetrachloride	9.877	117	81048	20.59	ug/L	97
57) 1,1-dichloropropene	9.850	75	85895	20.23	ug/L	98
58) hexane	7.900	57	70385	19.59	ug/L	99
59) benzene	10.123	78	249746	19.77	ug/L	99
60) ISO-OCTANE	10.207	57	215810	19.98	ug/L	95
61) heptane	10.401	57	40456	18.24	ug/L	98
62) isopropyl acetate	10.107	43	132980	20.07	ug/L	99
63) 1,2-dichloroethane	10.118	62	84715	19.99	ug/L	98
64) trichloroethene	10.894	95	65335	18.54	ug/L	99
66) 2-nitropropane	11.696	43	21402	19.73	ug/L	92
67) 2-chloroethyl vinyl ether	11.759	63	257865	103.21	ug/L	98
68) methyl methacrylate	11.219	41	63231	19.24	ug/L	97
69) 1,2-dichloropropane	11.161	63	69552	19.88	ug/L	91
70) methylcyclohexane	11.161	83	95591	20.74	ug/L	98
72) dibromomethane	11.303	93	47280	20.22	ug/L	95
73) bromodichloromethane	11.460	83	90811	17.73	ug/L	98
74) cis-1,3-dichloropropene	11.969	75	111110	20.57	ug/L	99
76) 4-methyl-2-pentanone	12.105	58	33320	19.03	ug/L	96
77) toluene	12.377	92	149802	19.70	ug/L	98
78) 3-methyl-1-butanol	12.121	70	44311	322.08	ug/L	98
79) trans-1,3-dichloropropene	12.571	75	102844	20.18	ug/L	99
80) ethyl methacrylate	12.624	69	95662	16.37	ug/L	98
81) 1,1,2-trichloroethane	12.792	83	56326	18.26	ug/L	99
82) 2-hexanone	13.022	58	31958	19.36	ug/L	99
84) tetrachloroethene	13.012	166	66435	20.36	ug/L	98
85) 1,3-dichloropropane	12.991	76	101803	19.53	ug/L	99
86) butyl acetate	13.132	56	50949	17.32	ug/L	99
87) dibromochloromethane	13.264	129	76571	19.60	ug/L	98
88) 1,2-dibromoethane	13.421	107	69204	19.01	ug/L	100
90) chlorobenzene	13.950	112	170307	19.22	ug/L	98
91) 1,1,1,2-tetrachloroethane	14.013	131	65562	19.66	ug/L	98
92) ethylbenzene	14.034	91	286322	19.26	ug/L	99
93) m,p-xylene	14.155	106	216076	39.82	ug/L	98
94) o-xylene	14.595	106	109642	20.36	ug/L	99
95) styrene	14.601	104	187692	19.43	ug/L	99
97) bromoform	14.836	173	58145	19.96	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 4d49235.D
 Acq On : 13 Jun 2014 4:17 pm
 Operator : PayalR
 Sample : ic2197-20
 Misc : MS68671,V4D2197,5,,,,,1
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 13 16:58:31 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M4D2197.M
 Quant Title : SW-846 Method 8260B/8260C
 QLast Update : Fri Jun 13 16:26:41 2014
 Response via : Initial Calibration

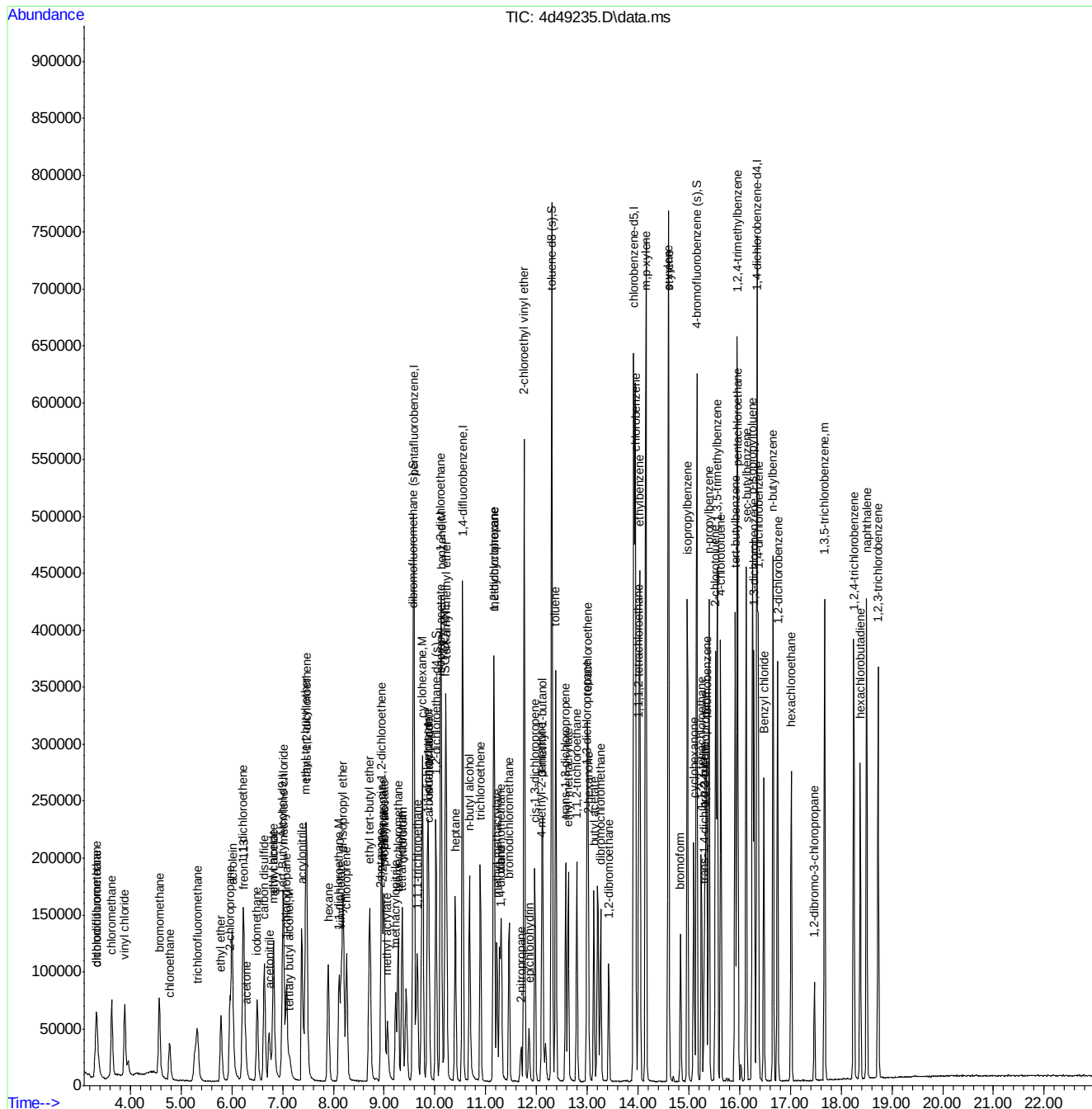
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
99)	isopropylbenzene	14.973	105	279245	19.81	ug/L	99
101)	bromobenzene	15.350	156	76205	19.09	ug/L	96
102)	cyclohexanone	15.099	55	93230	183.82	ug/L	98
103)	1,1,2,2-tetrachloroethane	15.245	83	105354	18.99	ug/L	99
104)	trans-1,4-dichloro-2-b...	15.303	53	18787	20.87	ug/L	88
105)	1,2,3-trichloropropane	15.324	110	22784	18.48	ug/L	97
106)	n-propylbenzene	15.397	91	325441	19.09	ug/L	99
107)	2-chlorotoluene	15.529	126	70034	19.74	ug/L	97
108)	4-chlorotoluene	15.628	91	208519	18.53	ug/L	99
109)	1,3,5-trimethylbenzene	15.560	105	237711	19.08	ug/L	98
110)	tert-butylbenzene	15.911	119	197243	19.72	ug/L	99
111)	pentachloroethane	15.964	167	51242	19.27	ug/L	99
112)	1,2,4-trimethylbenzene	15.953	105	237842	18.95	ug/L	99
113)	sec-butylbenzene	16.131	105	313854	19.60	ug/L	100
114)	1,3-dichlorobenzene	16.284	146	142978	18.62	ug/L	99
115)	p-isopropyltoluene	16.252	119	255944	19.78	ug/L	99
116)	1,4-dichlorobenzene	16.367	146	143597	18.26	ug/L	99
117)	1,2-dichlorobenzene	16.750	146	141087	18.30	ug/L	100
118)	n-butylbenzene	16.656	92	136842	19.44	ug/L	98
119)	1,2-dibromo-3-chloropr...	17.474	75	19229	19.17	ug/L	98
120)	1,3,5-trichlorobenzene	17.673	180	117314	18.83	ug/L	100
121)	1,2,4-trichlorobenzene	18.250	180	112457	20.32	ug/L	99
122)	hexachlorobutadiene	18.376	225	55120	19.89	ug/L	99
123)	naphthalene	18.501	128	298826	20.53	ug/L	99
124)	1,2,3-trichlorobenzene	18.727	180	107764	19.78	ug/L	99
125)	hexachloroethane	17.018	119	56364	19.59	ug/L	98
126)	Benzyl chloride	16.478	91	176673	18.05	ug/L	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 4d49235.D
Acq On : 13 Jun 2014 4:17 pm
Operator : PayalR
Sample : ic2197-20
Misc : MS68671,V4D2197,5,,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 13 16:58:31 2014
Quant Method : C:\MSDCHEM\1\METHODS\M4D2197.M
Quant Title : SW-846 Method 8260B/8260C
QLast Update : Fri Jun 13 16:26:41 2014
Response via : Initial Calibration



M4D2197.M Tue Jun 17 09:07:19 2014 RPT1

Page: 4

7.6.7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 4d49236.D
 Acq On : 13 Jun 2014 4:44 pm
 Operator : PayalR
 Sample : icc2197-50
 Misc : MS68671,V4D2197,5,,,,,1
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 13 17:12:10 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M4D2197.M
 Quant Title : SW-846 Method 8260B/8260C
 QLast Update : Fri Jun 13 16:26:41 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.998	65	143721	500.00	ug/L	0.00
4) pentafluorobenzene	9.588	168	281855	50.00	ug/L	0.00
51) 1,4-difluorobenzene	10.542	114	359637	50.00	ug/L	0.00
83) chlorobenzene-d5	13.914	117	323756	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	16.341	152	167769	50.00	ug/L	0.00
System Monitoring Compounds						
45) dibromofluoromethane (s)	9.567	113	145509	47.86	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery =	95.72%		
46) 1,2-dichloroethane-d4 (s)	10.018	65	156406	51.04	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery =	102.08%		
75) toluene-d8 (s)	12.299	98	495311	51.97	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery =	103.94%		
100) 4-bromofluorobenzene (s)	15.156	95	193620	42.81	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery =	85.62%		
Target Compounds						
2) 1,4-dioxane	11.292	88	45234	1309.39	ug/L	76
3) tertiary butyl alcohol	7.134	59	108833	251.36	ug/L	98
5) chlorodifluoromethane	3.333	51	164415	50.34	ug/L	96
6) dichlorodifluoromethane	3.323	85	216513	45.69	ug/L	99
7) chloromethane	3.637	50	250030	47.53	ug/L	100
8) vinyl chloride	3.894	62	244721	52.04	ug/L	99
10) bromomethane	4.565	94	162486	44.31	ug/L	98
11) chloroethane	4.770	64	100574	49.34	ug/L	98
12) trichlorofluoromethane	5.315	101	257984	52.79	ug/L	99
14) ethyl ether	5.782	74	82214	57.93	ug/L	97
16) 2-chloropropane	5.965	43	245872	46.62	ug/L	92
17) acrolein	6.002	56	398734	478.14	ug/L	99
18) 1,1-dichloroethene	6.222	96	141279	43.25	ug/L	97
19) acetone	6.269	43	55981	48.55	ug/L	98
20) allyl chloride	6.815	76	71907	47.73	ug/L	86
21) acetonitrile	6.720	40	102002	540.21	ug/L	99
22) iodomethane	6.495	142	289048	52.75	ug/L	97
23) iso-butyl alcohol	9.871	41	69191	479.04	ug/L	90
24) carbon disulfide	6.636	76	540913	49.54	ug/L	100
25) methylene chloride	7.014	84	169482	43.99	ug/L	93
26) 1-chloropropane	7.077	42	244920	45.59	ug/L	100
27) methyl acetate	6.820	74	30538	58.97	ug/L	91
28) methyl tert butyl ether	7.454	73	468761	49.71	ug/L	97
29) trans-1,2-dichloroethene	7.465	96	152904	43.76	ug/L	96
30) di-isopropyl ether	8.188	45	511235	47.59	ug/L	97
31) ethyl tert-butyl ether	8.713	59	500845	51.23	ug/L	96
32) 2-butanone	8.933	72	21987	54.64	ug/L	95
33) 1,1-dichloroethane	8.110	63	286036	50.74	ug/L	99
34) chloroprene	8.256	53	207598	51.80	ug/L	99
35) acrylonitrile	7.370	53	368955	250.31	ug/L	99
36) vinyl acetate	8.151	86	26141	59.78	ug/L	89
37) ethyl acetate	8.990	45	30673	32.36	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 4d49236.D
 Acq On : 13 Jun 2014 4:44 pm
 Operator : PayalR
 Sample : icc2197-50
 Misc : MS68671,V4D2197,5,,,1
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 13 17:12:10 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M4D2197.M
 Quant Title : SW-846 Method 8260B/8260C
 QLast Update : Fri Jun 13 16:26:41 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
38) 2,2-dichloropropane	8.964	77	203145	44.76	ug/L	98
39) cis-1,2-dichloroethene	8.943	96	171197	45.25	ug/L	97
40) propionitrile	8.996	54	289527	476.48	ug/L	99
41) methyl acrylate	9.059	55	174149	53.96	ug/L #	97
42) bromochloromethane	9.274	128	88876	53.22	ug/L	90
43) tetrahydrofuran	9.342	42	57933	32.07	ug/L	96
44) chloroform	9.357	83	276705	46.53	ug/L	98
47) freon 113	6.233	151	104666	55.17	ug/L	95
48) methacrylonitrile	9.221	41	116683	48.81	ug/L	96
49) 1,1,1-trichloroethane	9.651	97	222782	47.77	ug/L	99
50) tert-amyl methyl ether	10.217	73	477551	47.26	ug/L	99
52) epichlorohydrin	11.853	57	101584	245.90	ug/L	99
53) n-butyl alcohol	10.679	56	292963	2086.96	ug/L	100
54) cyclohexane	9.751	84	203230	48.81	ug/L	95
56) carbon tetrachloride	9.876	117	202346	53.03	ug/L	99
57) 1,1-dichloropropene	9.850	75	212178	51.54	ug/L	97
58) hexane	7.895	57	169381	48.62	ug/L	98
59) benzene	10.123	78	610277	49.83	ug/L	100
60) ISO-OCTANE	10.212	57	524801	50.12	ug/L	96
61) heptane	10.401	57	98016	45.59	ug/L	98
62) isopropyl acetate	10.107	43	342389	53.30	ug/L	98
63) 1,2-dichloroethane	10.112	62	210467	51.23	ug/L	99
64) trichloroethene	10.894	95	162376	47.51	ug/L	96
66) 2-nitropropane	11.696	43	52444	49.86	ug/L	96
67) 2-chloroethyl vinyl ether	11.759	63	663068	273.73	ug/L	97
68) methyl methacrylate	11.219	41	160349	50.33	ug/L	99
69) 1,2-dichloropropane	11.161	63	172815	50.95	ug/L	92
70) methylcyclohexane	11.161	83	239012	53.48	ug/L	97
72) dibromomethane	11.303	93	118073	52.07	ug/L	95
73) bromodichloromethane	11.460	83	225516	45.42	ug/L	97
74) cis-1,3-dichloropropene	11.968	75	274973	52.50	ug/L	99
76) 4-methyl-2-pentanone	12.105	58	79739	46.96	ug/L	92
77) toluene	12.377	92	370098	50.19	ug/L	100
78) 3-methyl-1-butanol	12.120	70	109615	821.75	ug/L	99
79) trans-1,3-dichloropropene	12.571	75	258364	52.29	ug/L	99
80) ethyl methacrylate	12.624	69	236701	41.78	ug/L	99
81) 1,1,2-trichloroethane	12.792	83	139931	46.78	ug/L	97
82) 2-hexanone	13.022	58	78528	49.06	ug/L	99
84) tetrachloroethene	13.012	166	166994	52.41	ug/L	97
85) 1,3-dichloropropane	12.991	76	252127	49.54	ug/L	99
86) butyl acetate	13.127	56	130502	45.43	ug/L	99
87) dibromochloromethane	13.263	129	192349	50.42	ug/L	99
88) 1,2-dibromoethane	13.421	107	174370	49.05	ug/L	99
90) chlorobenzene	13.950	112	423682	48.96	ug/L	98
91) 1,1,1,2-tetrachloroethane	14.013	131	163630	50.25	ug/L	98
92) ethylbenzene	14.034	91	714895	49.25	ug/L	100
93) m,p-xylene	14.155	106	538326	101.60	ug/L	98
94) o-xylene	14.595	106	272529	51.82	ug/L	99
95) styrene	14.600	104	468655	49.69	ug/L	100
97) bromoform	14.836	173	144563	50.83	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 4d49236.D
 Acq On : 13 Jun 2014 4:44 pm
 Operator : PayalR
 Sample : icc2197-50
 Misc : MS68671,V4D2197,5,,,,,1
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 13 17:12:10 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M4D2197.M
 Quant Title : SW-846 Method 8260B/8260C
 QLast Update : Fri Jun 13 16:26:41 2014
 Response via : Initial Calibration

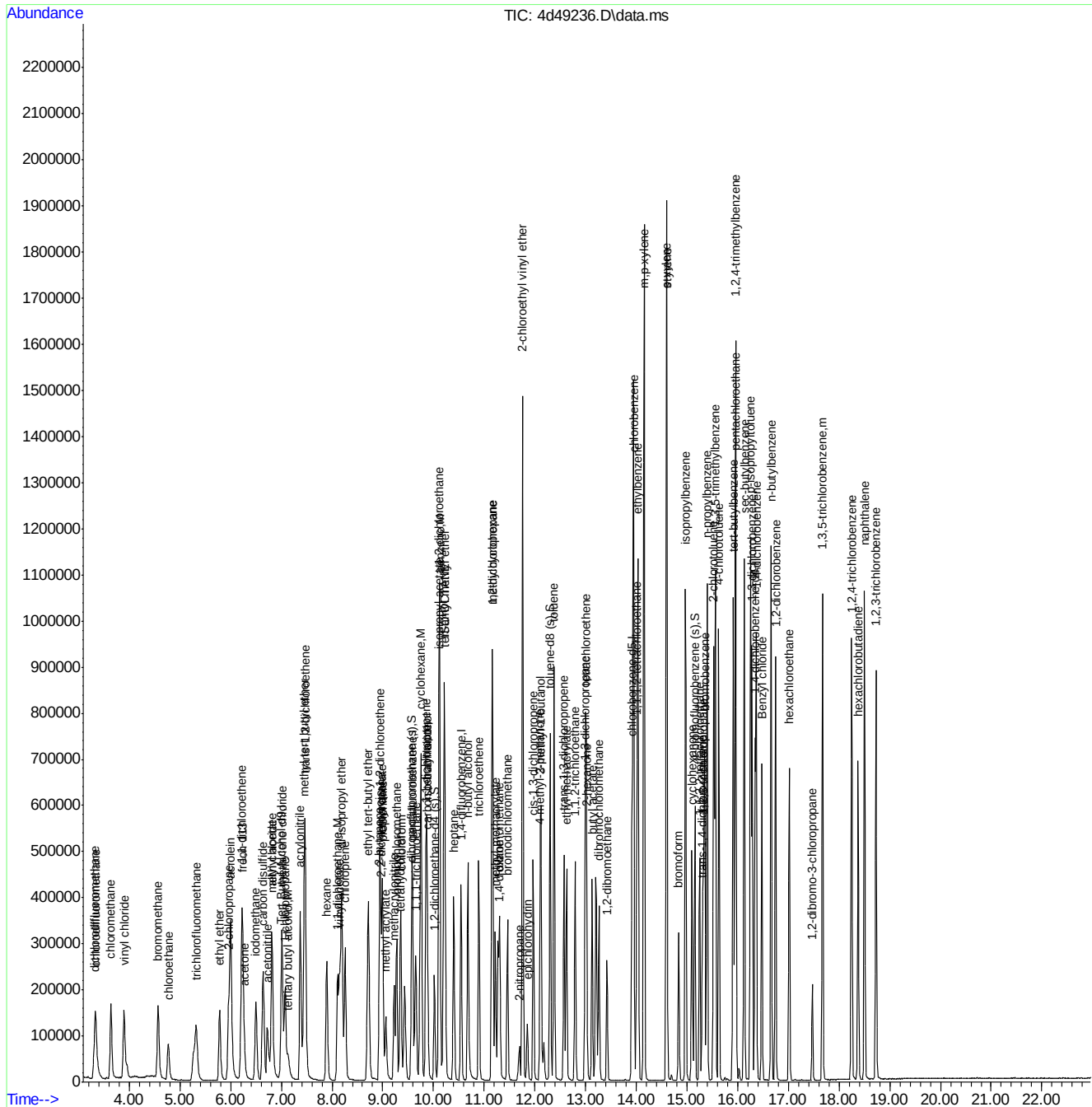
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
99)	isopropylbenzene	14.973	105	693648	50.16	ug/L	99
101)	bromobenzene	15.350	156	188552	48.15	ug/L	93
102)	cyclohexanone	15.099	55	222430	447.09	ug/L	97
103)	1,1,2,2-tetrachloroethane	15.245	83	253352	46.56	ug/L	98
104)	trans-1,4-dichloro-2-b...	15.303	53	48479	54.90	ug/L	89
105)	1,2,3-trichloropropane	15.324	110	55644	46.00	ug/L	96
106)	n-propylbenzene	15.397	91	813782	48.65	ug/L	98
107)	2-chlorotoluene	15.528	126	172317	49.50	ug/L	93
108)	4-chlorotoluene	15.628	91	513498	46.52	ug/L	99
109)	1,3,5-trimethylbenzene	15.560	105	587534	48.08	ug/L	99
110)	tert-butylbenzene	15.911	119	498117	50.76	ug/L	98
111)	pentachloroethane	15.964	167	127415	48.86	ug/L	98
112)	1,2,4-trimethylbenzene	15.953	105	588295	47.79	ug/L	99
113)	sec-butylbenzene	16.131	105	783804	49.90	ug/L	99
114)	1,3-dichlorobenzene	16.283	146	352555	46.80	ug/L	99
115)	p-isopropyltoluene	16.252	119	636263	50.12	ug/L	100
116)	1,4-dichlorobenzene	16.367	146	357433	46.33	ug/L	99
117)	1,2-dichlorobenzene	16.750	146	350001	46.29	ug/L	99
118)	n-butylbenzene	16.661	92	343872	49.80	ug/L	100
119)	1,2-dibromo-3-chloropr...	17.474	75	46774	47.54	ug/L	94
120)	1,3,5-trichlorobenzene	17.673	180	297252	48.65	ug/L	99
121)	1,2,4-trichlorobenzene	18.250	180	279122	51.41	ug/L	99
122)	hexachlorobutadiene	18.375	225	140371	51.63	ug/L	100
123)	naphthalene	18.501	128	732778	51.32	ug/L	100
124)	1,2,3-trichlorobenzene	18.727	180	270077	50.54	ug/L	99
125)	hexachloroethane	17.017	119	141454	50.11	ug/L	98
126)	Benzyl chloride	16.477	91	447599	46.63	ug/L	99

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

(QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 4d49236.D
Acq On : 13 Jun 2014 4:44 pm
Operator : PayalR
Sample : icc2197-50
Misc : MS68671,V4D2197,5,,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 13 17:12:10 2014
Quant Method : C:\MSDCHEM\1\METHODS\M4D2197.M
Quant Title : SW-846 Method 8260B/8260C
QLast Update : Fri Jun 13 16:26:41 2014
Response via : Initial Calibration



Page: 4

7.6.8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 4d49237.D
 Acq On : 13 Jun 2014 5:12 pm
 Operator : PayalR
 Sample : ic2197-100
 Misc : MS68671,V4D2197,5,,,1
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 13 17:38:57 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M4D2197.M
 Quant Title : SW-846 Method 8260B/8260C
 QLast Update : Fri Jun 13 17:14:21 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	7.003	65	150134	500.00	ug/L	0.00
4) pentafluorobenzene	9.588	168	285097	50.00	ug/L	0.00
51) 1,4-difluorobenzene	10.542	114	364276	50.00	ug/L	0.00
83) chlorobenzene-d5	13.914	117	331902	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	16.341	152	168183	50.00	ug/L	0.00
System Monitoring Compounds						
45) dibromofluoromethane (s)	9.567	113	313935	103.41	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery =	206.82%#		
46) 1,2-dichloroethane-d4 (s)	10.023	65	333811	106.96	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery =	213.92%#		
75) toluene-d8 (s)	12.299	98	1066027	109.21	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery =	218.42%#		
100) 4-bromofluorobenzene (s)	15.156	95	415935	95.39	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery =	190.78%#		
Target Compounds						
					Qvalue	
2) 1,4-dioxane	11.287	88	97946	2698.71	ug/L	96
3) tertiary butyl alcohol	7.140	59	241905	539.88	ug/L	99
5) chlorodifluoromethane	3.338	51	372091	113.04	ug/L	99
6) dichlorodifluoromethane	3.333	85	474561	101.63	ug/L	100
7) chloromethane	3.648	50	538877	103.23	ug/L	100
8) vinyl chloride	3.915	62	531949	111.54	ug/L	99
10) bromomethane	4.570	94	338207	94.09	ug/L	97
11) chloroethane	4.775	64	210835	102.71	ug/L	99
12) trichlorofluoromethane	5.320	101	558086	111.77	ug/L	98
14) ethyl ether	5.787	74	174191	116.61	ug/L	99
16) 2-chloropropane	5.965	43	534931	103.24	ug/L	# 91
18) 1,1-dichloroethene	6.222	96	304774	100.37	ug/L	98
19) acetone	6.269	43	111434	99.69	ug/L	95
20) allyl chloride	6.820	76	156189	104.25	ug/L	97
21) acetonitrile	6.725	40	228033	1171.86	ug/L	98
22) iodomethane	6.495	142	624683	111.31	ug/L	99
23) iso-butyl alcohol	9.871	41	156028	1093.14	ug/L	99
24) carbon disulfide	6.636	76	1157959	105.51	ug/L	100
25) methylene chloride	7.014	84	363745	97.27	ug/L	99
26) 1-chloropropane	7.077	42	525101	99.39	ug/L	99
27) methyl acetate	6.820	74	68234	115.57	ug/L	97
28) methyl tert butyl ether	7.459	73	1003198	105.65	ug/L	99
29) trans-1,2-dichloroethene	7.470	96	331970	96.84	ug/L	100
30) di-isopropyl ether	8.188	45	1131193	105.81	ug/L	100
31) ethyl tert-butyl ether	8.718	59	1119519	116.56	ug/L	99
32) 2-butanone	8.927	72	48228	114.55	ug/L	96
33) 1,1-dichloroethane	8.115	63	622970	108.92	ug/L	100
34) chloroprene	8.262	53	458818	112.36	ug/L	99
35) acrylonitrile	7.375	53	810012	545.10	ug/L	99
36) vinyl acetate	8.146	86	58830	124.53	ug/L	98
37) ethyl acetate	8.990	45	64534	92.18	ug/L	88
38) 2,2-dichloropropane	8.969	77	435768	97.80	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 4d49237.D
 Acq On : 13 Jun 2014 5:12 pm
 Operator : PayalR
 Sample : ic2197-100
 Misc : MS68671,V4D2197,5,,,1
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 13 17:38:57 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M4D2197.M
 Quant Title : SW-846 Method 8260B/8260C
 QLast Update : Fri Jun 13 17:14:21 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) cis-1,2-dichloroethene	8.943	96	368275	98.70	ug/L	98
40) propionitrile	9.001	54	644016	1063.61	ug/L	100
41) methyl acrylate	9.059	55	380237	113.45	ug/L #	98
42) bromochloromethane	9.273	128	194258	113.14	ug/L	98
43) tetrahydrofuran	9.342	42	124638	96.13	ug/L	99
44) chloroform	9.357	83	604744	102.61	ug/L	99
47) freon 113	6.238	151	231576	117.47	ug/L	100
48) methacrylonitrile	9.221	41	255437	107.00	ug/L	99
49) 1,1,1-trichloroethane	9.651	97	485392	104.43	ug/L	99
50) tert-amyl methyl ether	10.217	73	1066993	112.72	ug/L	99
52) epichlorohydrin	11.853	57	230610	557.10	ug/L	98
53) n-butyl alcohol	10.679	56	653501	4947.22	ug/L	99
54) cyclohexane	9.751	84	440991	105.26	ug/L	99
56) carbon tetrachloride	9.876	117	439646	112.31	ug/L	100
57) 1,1-dichloropropene	9.855	75	456003	108.70	ug/L	99
58) hexane	7.900	57	376308	107.50	ug/L	100
59) benzene	10.123	78	1323690	106.90	ug/L	100
60) ISO-OCTANE	10.212	57	1169346	110.22	ug/L	100
61) heptane	10.401	57	217583	102.94	ug/L	99
62) isopropyl acetate	10.107	43	762927	115.90	ug/L	99
63) 1,2-dichloroethane	10.118	62	457211	109.54	ug/L	99
64) trichloroethene	10.894	95	351900	103.24	ug/L	99
66) 2-nitropropane	11.696	43	118241	111.29	ug/L	100
67) 2-chloroethyl vinyl ether	11.759	63	1480849	592.78	ug/L	100
68) methyl methacrylate	11.219	41	354721	110.42	ug/L	100
69) 1,2-dichloropropane	11.161	63	374533	108.83	ug/L	97
70) methylcyclohexane	11.161	83	528901	110.03	ug/L	100
72) dibromomethane	11.303	93	257462	111.26	ug/L	99
73) bromodichloromethane	11.460	83	494085	106.48	ug/L	100
74) cis-1,3-dichloropropene	11.968	75	603382	112.63	ug/L	99
76) 4-methyl-2-pentanone	12.105	58	177505	105.12	ug/L	100
77) toluene	12.377	92	799382	107.18	ug/L	100
78) 3-methyl-1-butanol	12.120	70	239862	1892.97	ug/L	98
79) trans-1,3-dichloropropene	12.571	75	572045	113.42	ug/L	99
80) ethyl methacrylate	12.624	69	516814	101.31	ug/L	99
81) 1,1,2-trichloroethane	12.797	83	311089	104.94	ug/L	98
82) 2-hexanone	13.022	58	173450	107.90	ug/L	99
84) tetrachloroethene	13.012	166	363643	110.41	ug/L	99
85) 1,3-dichloropropane	12.991	76	554893	106.79	ug/L	100
86) butyl acetate	13.127	56	291893	102.99	ug/L	100
87) dibromochloromethane	13.263	129	429252	109.93	ug/L	100
88) 1,2-dibromoethane	13.421	107	384308	106.36	ug/L	100
90) chlorobenzene	13.950	112	935673	106.27	ug/L	99
91) 1,1,1,2-tetrachloroethane	14.013	131	364762	109.43	ug/L	99
92) ethylbenzene	14.034	91	1560162	105.52	ug/L	100
93) m,p-xylene	14.155	106	1167515	214.62	ug/L	99
94) o-xylene	14.595	106	596301	109.86	ug/L	99
95) styrene	14.600	104	1034990	107.51	ug/L	100
97) bromoform	14.836	173	327696	112.15	ug/L	99
99) isopropylbenzene	14.973	105	1531138	110.54	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 4d49237.D
 Acq On : 13 Jun 2014 5:12 pm
 Operator : PayalR
 Sample : ic2197-100
 Misc : MS68671,V4D2197,5,,,1
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 13 17:38:57 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M4D2197.M
 Quant Title : SW-846 Method 8260B/8260C
 QLast Update : Fri Jun 13 17:14:21 2014
 Response via : Initial Calibration

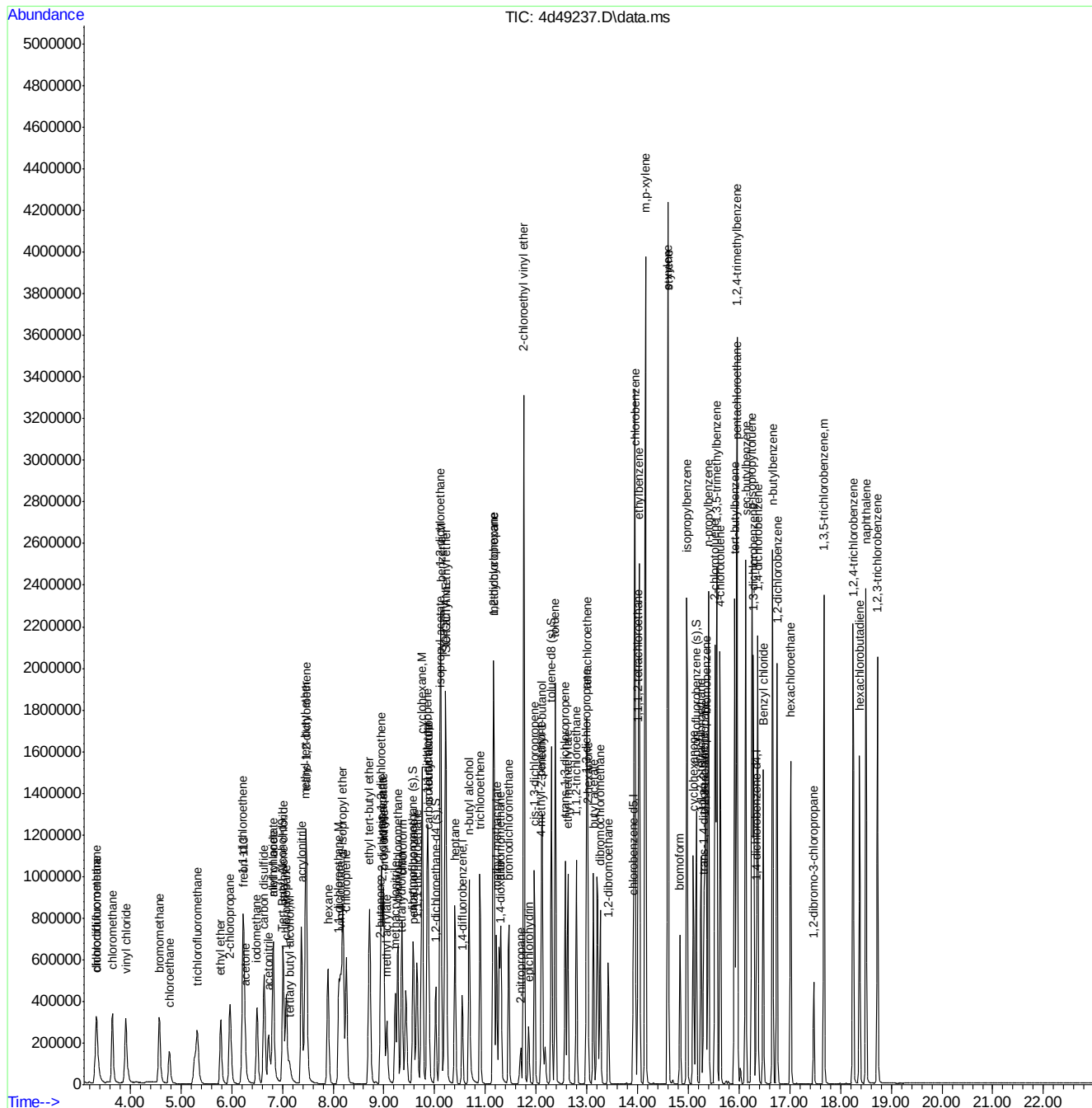
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
101) bromobenzene	15.350	156	416773	107.28	ug/L	99
102) cyclohexanone	15.098	55	486823	1013.98	ug/L	99
103) 1,1,2,2-tetrachloroethane	15.251	83	577368	107.99	ug/L	100
104) trans-1,4-dichloro-2-b...	15.303	53	113518	125.28	ug/L	98
105) 1,2,3-trichloropropane	15.324	110	125181	105.59	ug/L	100
106) n-propylbenzene	15.397	91	1766682	106.33	ug/L	100
107) 2-chlorotoluene	15.528	126	384783	110.59	ug/L	98
108) 4-chlorotoluene	15.628	91	1123532	103.38	ug/L	99
109) 1,3,5-trimethylbenzene	15.560	105	1303079	107.51	ug/L	100
110) tert-butylbenzene	15.911	119	1096063	111.40	ug/L	98
111) pentachloroethane	15.964	167	287570	110.82	ug/L	99
112) 1,2,4-trimethylbenzene	15.953	105	1303040	106.89	ug/L	99
113) sec-butylbenzene	16.131	105	1734437	110.45	ug/L	100
114) 1,3-dichlorobenzene	16.283	146	782576	105.38	ug/L	100
115) p-isopropyltoluene	16.252	119	1403190	110.39	ug/L	100
116) 1,4-dichlorobenzene	16.367	146	792981	104.63	ug/L	100
117) 1,2-dichlorobenzene	16.750	146	790790	106.45	ug/L	99
118) n-butylbenzene	16.661	92	757721	109.91	ug/L	99
119) 1,2-dibromo-3-chloropr...	17.474	75	109153	112.36	ug/L	97
120) 1,3,5-trichlorobenzene	17.673	180	667971	110.23	ug/L	100
121) 1,2,4-trichlorobenzene	18.250	180	643473	117.37	ug/L	99
122) hexachlorobutadiene	18.375	225	316410	115.70	ug/L	100
123) naphthalene	18.501	128	1672807	115.85	ug/L	100
124) 1,2,3-trichlorobenzene	18.727	180	616946	115.17	ug/L	99
125) hexachloroethane	17.017	119	319539	113.18	ug/L	100
126) Benzyl chloride	16.477	91	988864	105.23	ug/L	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 4d49237.D
Acq On : 13 Jun 2014 5:12 pm
Operator : PayalR
Sample : ic2197-100
Misc : MS68671,V4D2197,5,,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 13 17:38:57 2014
Quant Method : C:\MSDCHEM\1\METHODS\M4D2197.M
Quant Title : SW-846 Method 8260B/8260C
QLast Update : Fri Jun 13 17:14:21 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 4d49238.D
 Acq On : 13 Jun 2014 5:39 pm
 Operator : PayalR
 Sample : ic2197-200
 Misc : MS68671,V4D2197,5,,,1
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 13 18:04:56 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M4D2197.M
 Quant Title : SW-846 Method 8260B/8260C
 QLast Update : Fri Jun 13 17:39:14 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	7.009	65	174281	500.00	ug/L	0.01
4) pentafluorobenzene	9.583	168	299111	50.00	ug/L	0.00
51) 1,4-difluorobenzene	10.542	114	378911	50.00	ug/L	0.00
83) chlorobenzene-d5	13.914	117	346119	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	16.341	152	182789	50.00	ug/L	0.00
System Monitoring Compounds						
45) dibromofluoromethane (s)	9.567	113	603489	188.67	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery =	377.34%#		
46) 1,2-dichloroethane-d4 (s)	10.018	65	645138	195.34	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery =	390.68%#		
75) toluene-d8 (s)	12.299	98	2065111	201.07	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery =	402.14%#		
100) 4-bromofluorobenzene (s)	15.156	95	817152	173.42	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery =	346.84%#		
Target Compounds						
					Qvalue	
2) 1,4-dioxane	11.292	88	190630	4465.54	ug/L	95
3) tertiary butyl alcohol	7.140	59	471011	895.36	ug/L	97
5) chlorodifluoromethane	3.333	51	710604	202.46	ug/L	99
6) dichlorodifluoromethane	3.323	85	922867	187.99	ug/L	99
7) chloromethane	3.653	50	1036544	188.50	ug/L	99
8) vinyl chloride	3.915	62	1051226	207.44	ug/L	99
10) bromomethane	4.565	94	592320	158.11	ug/L	100
11) chloroethane	4.759	64	385877	178.57	ug/L	99
12) trichlorofluoromethane	5.315	101	1095800	206.15	ug/L	100
14) ethyl ether	5.782	74	339750	212.37	ug/L	99
16) 2-chloropropane	5.965	43	1010757	185.08	ug/L	# 91
18) 1,1-dichloroethene	6.222	96	582210	182.66	ug/L	98
19) acetone	6.264	43	240436	205.15	ug/L	95
20) allyl chloride	6.815	76	297496	188.12	ug/L	96
21) acetonitrile	6.720	40	410869	1956.48	ug/L	98
22) iodomethane	6.495	142	1182757	198.08	ug/L	100
23) iso-butyl alcohol	9.871	41	296215	1952.09	ug/L	98
24) carbon disulfide	6.642	76	2222495	191.85	ug/L	99
25) methylene chloride	7.014	84	681082	174.28	ug/L	100
26) 1-chloropropane	7.071	42	1026626	185.38	ug/L	98
27) methyl acetate	6.815	74	130814	204.81	ug/L	98
28) methyl tert butyl ether	7.459	73	1885473	187.93	ug/L	99
29) trans-1,2-dichloroethene	7.465	96	629871	175.75	ug/L	99
30) di-isopropyl ether	8.193	45	2085474	184.60	ug/L	96
31) ethyl tert-butyl ether	8.718	59	2050993	199.41	ug/L	99
32) 2-butanone	8.928	72	94792	209.51	ug/L	95
33) 1,1-dichloroethane	8.110	63	1179223	194.35	ug/L	99
34) chloroprene	8.256	53	861826	198.44	ug/L	99
35) acrylonitrile	7.370	53	1528960	970.98	ug/L	100
36) vinyl acetate	8.146	86	107081	197.85	ug/L	99
37) ethyl acetate	8.990	45	114593	158.49	ug/L	97
38) 2,2-dichloropropane	8.964	77	799368	171.47	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 4d49238.D
 Acq On : 13 Jun 2014 5:39 pm
 Operator : PayalR
 Sample : ic2197-200
 Misc : MS68671,V4D2197,5,,,1
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 13 18:04:56 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M4D2197.M
 Quant Title : SW-846 Method 8260B/8260C
 QLast Update : Fri Jun 13 17:39:14 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) cis-1,2-dichloroethene	8.943	96	695173	177.84	ug/L	98
40) propionitrile	9.001	54	1222968	1909.94	ug/L	100
41) methyl acrylate	9.059	55	741282	206.19	ug/L	98
42) bromochloromethane	9.274	128	366815	200.35	ug/L	100
43) tetrahydrofuran	9.342	42	244593	181.22	ug/L	99
44) chloroform	9.357	83	1128876	181.98	ug/L	99
47) freon 113	6.233	151	437751	193.79	ug/L	98
48) methacrylonitrile	9.221	41	491320	194.23	ug/L	99
49) 1,1,1-trichloroethane	9.651	97	919410	187.51	ug/L	100
50) tert-amyl methyl ether	10.223	73	1944469	192.73	ug/L	99
52) epichlorohydrin	11.853	57	444657	1016.12	ug/L	99
53) n-butyl alcohol	10.684	56	1278662	9322.42	ug/L	98
54) cyclohexane	9.751	84	843201	192.36	ug/L	100
56) carbon tetrachloride	9.877	117	832094	201.25	ug/L	99
57) 1,1-dichloropropene	9.850	75	869559	197.13	ug/L	99
58) hexane	7.889	57	721303	196.00	ug/L	99
59) benzene	10.123	78	2479370	191.04	ug/L	100
60) ISO-OCTANE	10.212	57	2186027	195.25	ug/L	99
61) heptane	10.401	57	411888	186.55	ug/L	100
62) isopropyl acetate	10.107	43	1452086	207.37	ug/L	99
63) 1,2-dichloroethane	10.118	62	850565	193.86	ug/L	98
64) trichloroethene	10.894	95	671146	188.62	ug/L	99
66) 2-nitropropane	11.696	43	227851	202.89	ug/L	100
67) 2-chloroethyl vinyl ether	11.764	63	2750902	1034.65	ug/L	98
68) methyl methacrylate	11.219	41	681300	201.26	ug/L	99
69) 1,2-dichloropropane	11.161	63	713213	197.30	ug/L	99
70) methylcyclohexane	11.161	83	1007342	198.62	ug/L	100
72) dibromomethane	11.303	93	484197	198.37	ug/L	99
73) bromodichloromethane	11.460	83	928753	190.88	ug/L	100
74) cis-1,3-dichloropropene	11.968	75	1144854	202.61	ug/L	100
76) 4-methyl-2-pentanone	12.105	58	345113	195.07	ug/L	100
77) toluene	12.377	92	1527976	195.39	ug/L	99
78) 3-methyl-1-butanol	12.126	70	478993	3662.16	ug/L	99
79) trans-1,3-dichloropropene	12.571	75	1083207	203.06	ug/L	99
80) ethyl methacrylate	12.624	69	990875	186.39	ug/L	99
81) 1,1,2-trichloroethane	12.797	83	582196	187.65	ug/L	97
82) 2-hexanone	13.022	58	341124	201.74	ug/L	99
84) tetrachloroethene	13.012	166	709240	204.13	ug/L	100
85) 1,3-dichloropropane	12.991	76	1062941	194.69	ug/L	100
86) butyl acetate	13.127	56	562941	189.66	ug/L	99
87) dibromochloromethane	13.264	129	809557	196.38	ug/L	100
88) 1,2-dibromoethane	13.421	107	723307	190.60	ug/L	100
90) chlorobenzene	13.950	112	1772209	191.67	ug/L	99
91) 1,1,1,2-tetrachloroethane	14.013	131	679807	193.54	ug/L	99
92) ethylbenzene	14.034	91	2978534	192.01	ug/L	100
93) m,p-xylene	14.155	106	2238232	391.37	ug/L	99
94) o-xylene	14.595	106	1136936	198.69	ug/L	99
95) styrene	14.600	104	1954971	193.12	ug/L	99
97) bromoform	14.836	173	626929	202.67	ug/L	99
99) isopropylbenzene	14.973	105	2866222	188.19	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 4d49238.D
 Acq On : 13 Jun 2014 5:39 pm
 Operator : PayalR
 Sample : ic2197-200
 Misc : MS68671,V4D2197,5,,,,,1
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 13 18:04:56 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M4D2197.M
 Quant Title : SW-846 Method 8260B/8260C
 QLast Update : Fri Jun 13 17:39:14 2014
 Response via : Initial Calibration

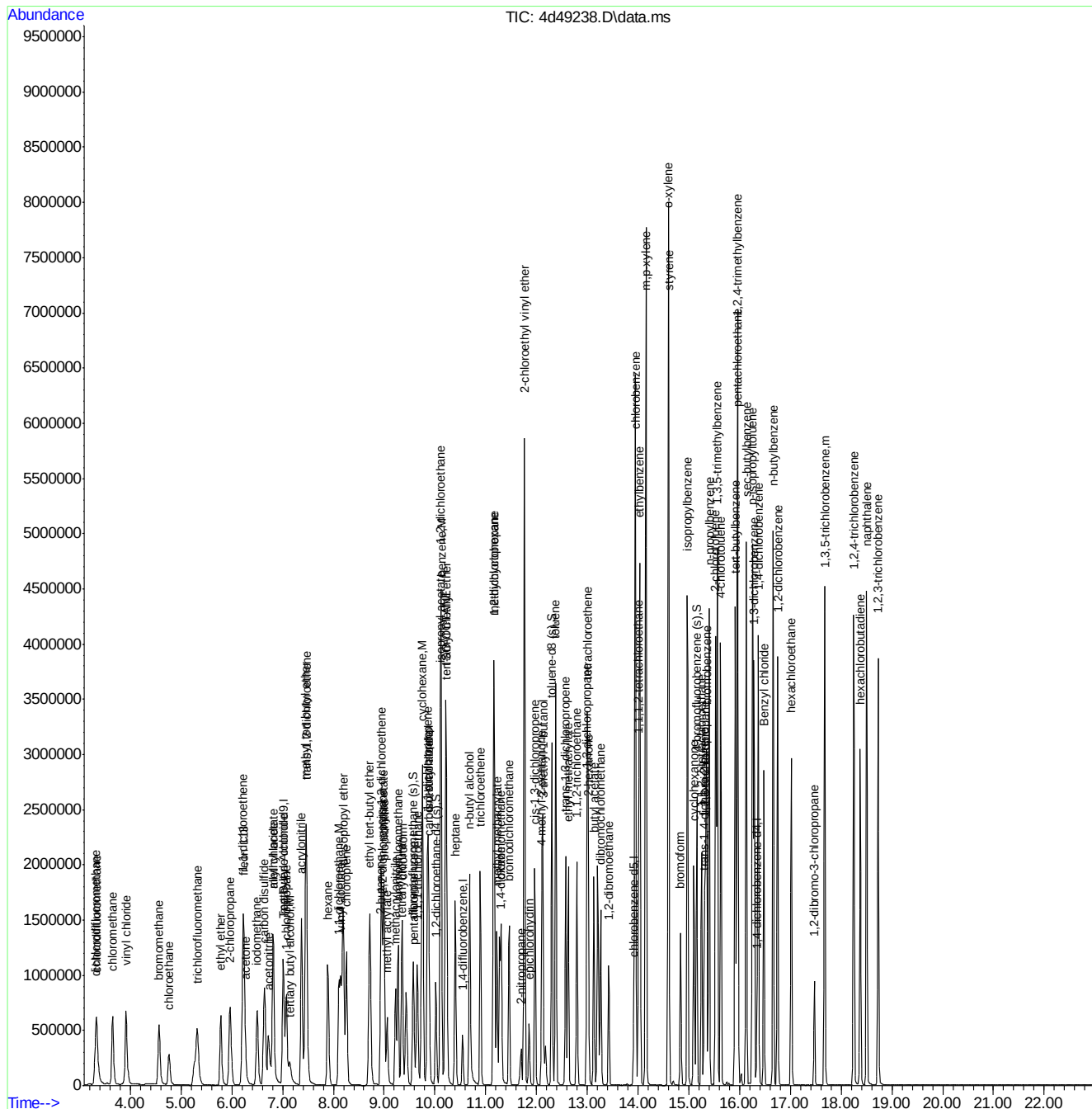
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
101)	bromobenzene	15.350	156	793310	186.37	ug/L	99
102)	cyclohexanone	15.099	55	905660	1731.58	ug/L	99
103)	1,1,2,2-tetrachloroethane	15.251	83	1079671	183.71	ug/L	100
104)	trans-1,4-dichloro-2-b...	15.303	53	223061	218.61	ug/L	96
105)	1,2,3-trichloropropane	15.324	110	235525	181.51	ug/L	100
106)	n-propylbenzene	15.403	91	3390860	186.46	ug/L	98
107)	2-chlorotoluene	15.528	126	727719	190.20	ug/L	98
108)	4-chlorotoluene	15.628	91	2167729	182.84	ug/L	99
109)	1,3,5-trimethylbenzene	15.560	105	2487584	187.27	ug/L	100
110)	tert-butylbenzene	15.916	119	2093255	193.31	ug/L	99
111)	pentachloroethane	15.964	167	534709	187.34	ug/L	99
112)	1,2,4-trimethylbenzene	15.953	105	2493190	186.75	ug/L	98
113)	sec-butylbenzene	16.131	105	3324598	192.56	ug/L	99
114)	1,3-dichlorobenzene	16.289	146	1502611	185.06	ug/L	99
115)	p-isopropyltoluene	16.257	119	2728799	195.27	ug/L	99
116)	1,4-dichlorobenzene	16.367	146	1515372	183.02	ug/L	98
117)	1,2-dichlorobenzene	16.750	146	1490011	183.23	ug/L	99
118)	n-butylbenzene	16.661	92	1489146	196.58	ug/L	99
119)	1,2-dibromo-3-chloropr...	17.474	75	210620	196.03	ug/L	98
120)	1,3,5-trichlorobenzene	17.678	180	1303833	195.75	ug/L	100
121)	1,2,4-trichlorobenzene	18.250	180	1242053	203.40	ug/L	99
122)	hexachlorobutadiene	18.375	225	617829	204.30	ug/L	99
123)	naphthalene	18.501	128	3182120	198.28	ug/L	100
124)	1,2,3-trichlorobenzene	18.727	180	1155337	194.75	ug/L	100
125)	hexachloroethane	17.018	119	625217	200.81	ug/L	100
126)	Benzyl chloride	16.477	91	1855555	180.50	ug/L	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 4d49238.D
Acq On : 13 Jun 2014 5:39 pm
Operator : PayalR
Sample : ic2197-200
Misc : MS68671,V4D2197,5,,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 13 18:04:56 2014
Quant Method : C:\MSDCHEM\1\METHODS\M4D2197.M
Quant Title : SW-846 Method 8260B/8260C
QLast Update : Fri Jun 13 17:39:14 2014
Response via : Initial Calibration



M4D2197.M Tue Jun 17 09:07:38 2014 RPT1

Page: 4

7.6.10

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 4d49241.D
 Acq On : 13 Jun 2014 7:01 pm
 Operator : PayalR
 Sample : icv2197-50
 Misc : MS68671,V4D2197,5,,,,,1
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 16 09:19:46 2014
 Quant Method : C:\msdchem\1\methods\M4D2197.M
 Quant Title : SW-846 Method 8260B/8260C
 QLast Update : Fri Jun 13 18:12:09 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	7.003	65	151045	500.00	ug/L	0.00
4) pentafluorobenzene	9.588	168	295183	50.00	ug/L	0.00
51) 1,4-difluorobenzene	10.542	114	373930	50.00	ug/L	0.00
83) chlorobenzene-d5	13.914	117	340792	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	16.341	152	179239	50.00	ug/L	0.00
System Monitoring Compounds						
45) dibromofluoromethane (s)	9.567	113	153121	48.81	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery =	97.62%		
46) 1,2-dichloroethane-d4 (s)	10.018	65	164222	50.52	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery =	101.04%		
75) toluene-d8 (s)	12.299	98	519174	51.19	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery =	102.38%		
100) 4-bromofluorobenzene (s)	15.156	95	202705	44.53	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery =	89.06%		
Target Compounds						
2) 1,4-dioxane	11.287	88	42835	1175.73	ug/L	85
3) tertiary butyl alcohol	7.134	59	108791	241.78	ug/L	99
5) chlorodifluoromethane	3.333	51	142340	41.04	ug/L	96
6) dichlorodifluoromethane	3.328	85	231184	48.04	ug/L	99
7) chloromethane	3.643	50	265009	49.15	ug/L	100
8) vinyl chloride	3.900	62	260413	51.88	ug/L	97
10) bromomethane	4.571	94	165842	45.82	ug/L	99
11) chloroethane	4.770	64	105172	49.91	ug/L	98
12) trichlorofluoromethane	5.320	101	268976	51.10	ug/L	99
14) ethyl ether	5.782	74	87072	54.77	ug/L	99
16) 2-chloropropane	5.965	43	255804	47.91	ug/L	100
17) acrolein	6.002	56	412215	478.76	ug/L	100
18) 1,1-dichloroethene	6.222	96	148670	47.72	ug/L	96
19) acetone	6.269	43	56064	48.26	ug/L	96
20) allyl chloride	6.815	76	74848	48.32	ug/L	100
21) acetonitrile	6.726	40	102473	495.99	ug/L	100
22) iodomethane	6.500	142	304191	51.68	ug/L	99
23) iso-butyl alcohol	9.871	41	69287	464.07	ug/L	99
24) carbon disulfide	6.642	76	569972	50.06	ug/L	99
25) methylene chloride	7.014	84	178719	47.10	ug/L	99
26) 1-chloropropane	7.077	42	258712	47.77	ug/L	99
27) methyl acetate	6.820	74	29491	46.60	ug/L	99
28) methyl tert butyl ether	7.460	73	950821	96.68	ug/L	99
29) trans-1,2-dichloroethene	7.465	96	159110	45.54	ug/L	99
30) di-isopropyl ether	8.188	45	529263	47.88	ug/L	98
31) ethyl tert-butyl ether	8.718	59	501739	49.45	ug/L	99
32) 2-butanone	8.928	72	22500	50.05	ug/L	97
33) 1,1-dichloroethane	8.110	63	299394	50.16	ug/L	100
34) chloroprene	8.256	53	206658	48.25	ug/L	99
35) acrylonitrile	7.370	53	389041	251.08	ug/L	99
36) vinyl acetate	8.152	86	29920	56.12	ug/L	92
37) ethyl acetate	8.996	45	27995	40.64	ug/L	89

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 4d49241.D
 Acq On : 13 Jun 2014 7:01 pm
 Operator : PayalR
 Sample : icv2197-50
 Misc : MS68671,V4D2197,5,,,1
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 16 09:19:46 2014
 Quant Method : C:\msdchem\1\methods\M4D2197.M
 Quant Title : SW-846 Method 8260B/8260C
 QLast Update : Fri Jun 13 18:12:09 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
38) 2,2-dichloropropane	8.964	77	189621	41.88	ug/L	100
39) cis-1,2-dichloroethene	8.943	96	176606	46.29	ug/L	98
40) propionitrile	8.996	54	304572	484.41	ug/L	99
41) methyl acrylate	9.059	55	182746	51.28	ug/L	100
42) bromochloromethane	9.274	128	92456	51.16	ug/L	99
43) tetrahydrofuran	9.342	42	62000	47.29	ug/L	98
44) chloroform	9.357	83	288174	47.55	ug/L	99
47) freon 113	6.238	151	113212	51.01	ug/L	97
48) methacrylonitrile	9.221	41	120152	48.30	ug/L	100
49) 1,1,1-trichloroethane	9.646	97	233645	48.62	ug/L	99
50) tert-amyl methyl ether	10.217	73	476111	48.01	ug/L	99
52) epichlorohydrin	11.853	57	100692	232.69	ug/L	98
53) n-butyl alcohol	10.679	56	290658	2168.34	ug/L	99
54) cyclohexane	9.751	84	211311	49.04	ug/L	98
56) carbon tetrachloride	9.877	117	209785	51.38	ug/L	100
57) 1,1-dichloropropene	9.850	75	217461	50.03	ug/L	99
58) hexane	7.895	57	182261	50.31	ug/L	99
59) benzene	10.123	78	628543	49.30	ug/L	100
60) ISO-OCTANE	10.212	57	533701	48.45	ug/L	100
61) heptane	10.401	57	108794	50.35	ug/L	99
62) isopropyl acetate	10.107	43	350598	50.50	ug/L	100
63) 1,2-dichloroethane	10.118	62	218241	50.56	ug/L	99
64) trichloroethene	10.894	95	167631	48.01	ug/L	99
66) 2-nitropropane	11.696	43	55222	49.74	ug/L	98
67) 2-chloroethyl vinyl ether	11.759	63	660674	250.83	ug/L	100
68) methyl methacrylate	11.219	41	168689	50.46	ug/L	97
69) 1,2-dichloropropane	11.161	63	180749	50.74	ug/L	99
70) methylcyclohexane	11.161	83	260088	52.01	ug/L	92
72) dibromomethane	11.303	93	122310	50.82	ug/L	99
73) bromodichloromethane	11.460	83	231110	48.38	ug/L	100
74) cis-1,3-dichloropropene	11.969	75	284043	50.87	ug/L	98
76) 4-methyl-2-pentanone	12.105	58	84055	48.29	ug/L	97
77) toluene	12.377	92	386107	50.15	ug/L	99
78) 3-methyl-1-butanol	12.121	70	106596	834.65	ug/L	97
79) trans-1,3-dichloropropene	12.571	75	265313	50.31	ug/L	99
80) ethyl methacrylate	12.624	69	246508	47.39	ug/L	99
81) 1,1,2-trichloroethane	12.797	83	145497	47.85	ug/L	99
82) 2-hexanone	13.022	58	81660	48.88	ug/L	98
84) tetrachloroethene	13.012	166	175748	51.27	ug/L	100
85) 1,3-dichloropropane	12.991	76	263675	49.18	ug/L	99
86) butyl acetate	13.132	56	132378	45.59	ug/L	97
87) dibromochloromethane	13.264	129	201047	49.63	ug/L	98
88) 1,2-dibromoethane	13.421	107	181035	48.68	ug/L	99
90) chlorobenzene	13.945	112	439867	48.52	ug/L	98
91) 1,1,1,2-tetrachloroethane	14.013	131	169062	49.04	ug/L	100
92) ethylbenzene	14.034	91	743865	48.90	ug/L	100
93) m,p-xylene	14.155	106	557194	99.17	ug/L	100
94) o-xylene	14.595	106	281318	49.96	ug/L	100
95) styrene	14.601	104	486536	48.98	ug/L	100
97) bromoform	14.836	173	149498	49.01	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 4d49241.D
 Acq On : 13 Jun 2014 7:01 pm
 Operator : PayalR
 Sample : icv2197-50
 Misc : MS68671,V4D2197,5,,,,,1
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 16 09:19:46 2014
 Quant Method : C:\msdchem\1\methods\M4D2197.M
 Quant Title : SW-846 Method 8260B/8260C
 QLast Update : Fri Jun 13 18:12:09 2014
 Response via : Initial Calibration

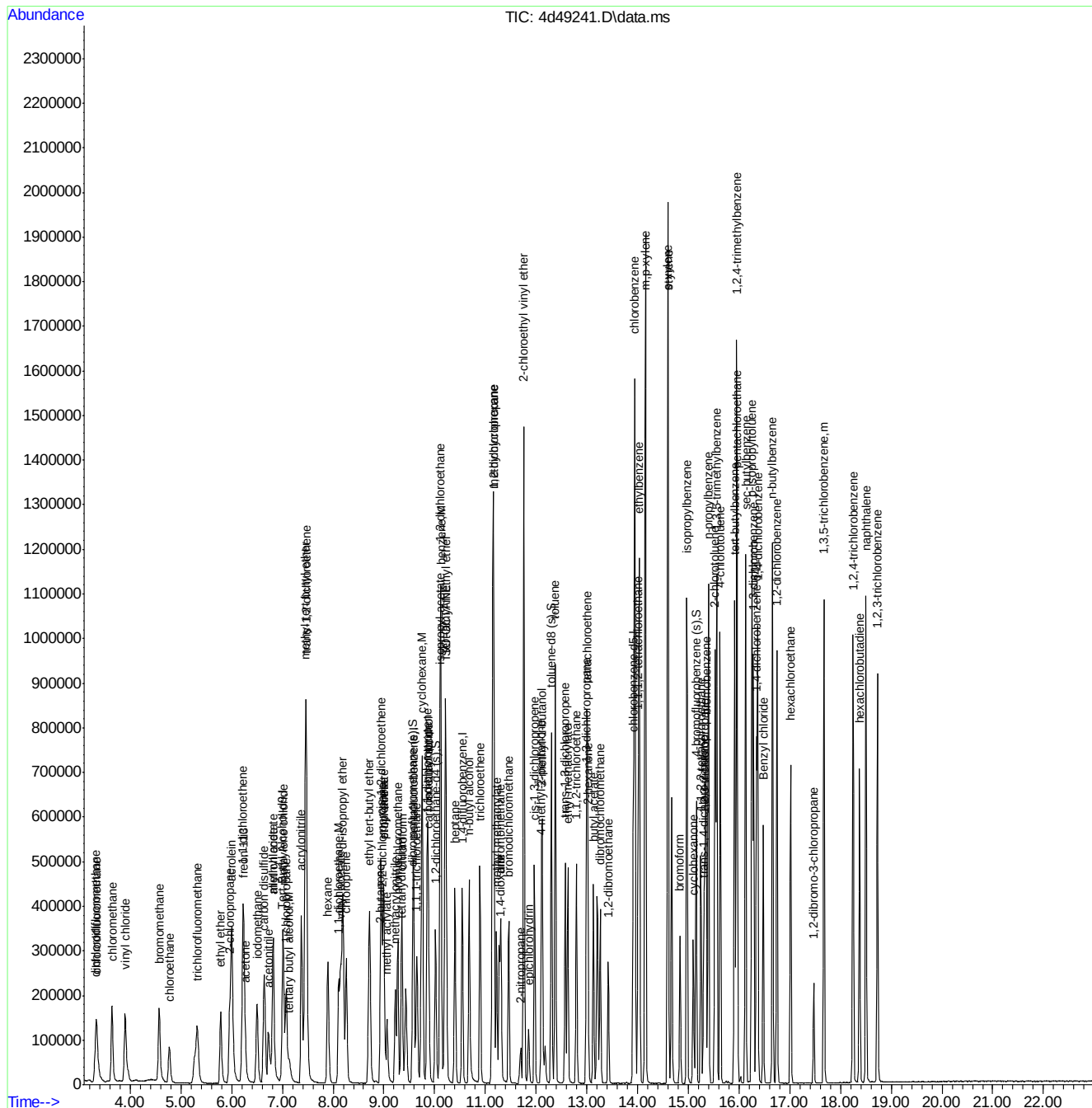
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
99)	isopropylbenzene	14.973	105	726343	48.92	ug/L	100
101)	bromobenzene	15.350	156	197087	47.54	ug/L	100
102)	cyclohexanone	15.099	55	142773	287.54	ug/L	99
103)	1,1,2,2-tetrachloroethane	15.245	83	268398	47.05	ug/L	99
104)	trans-1,4-dichloro-2-b...	15.303	53	50013	49.41	ug/L	98
105)	1,2,3-trichloropropane	15.324	110	59065	46.90	ug/L	95
106)	n-propylbenzene	15.397	91	844165	47.66	ug/L	100
107)	2-chlorotoluene	15.529	126	180473	48.34	ug/L	96
108)	4-chlorotoluene	15.628	91	538948	46.76	ug/L	99
109)	1,3,5-trimethylbenzene	15.560	105	609031	47.06	ug/L	99
110)	tert-butylbenzene	15.911	119	514763	48.64	ug/L	99
111)	pentachloroethane	15.964	167	130304	46.85	ug/L	99
112)	1,2,4-trimethylbenzene	15.953	105	611306	47.01	ug/L	99
113)	sec-butylbenzene	16.131	105	810508	48.05	ug/L	100
114)	1,3-dichlorobenzene	16.284	146	369678	46.78	ug/L	99
115)	p-isopropyltoluene	16.252	119	664157	48.58	ug/L	100
116)	1,4-dichlorobenzene	16.367	146	376477	46.77	ug/L	99
117)	1,2-dichlorobenzene	16.745	146	368179	46.56	ug/L	99
118)	n-butylbenzene	16.656	92	357436	48.20	ug/L	97
119)	1,2-dibromo-3-chloropr...	17.474	75	49004	46.63	ug/L	97
120)	1,3,5-trichlorobenzene	17.673	180	307825	47.23	ug/L	100
121)	1,2,4-trichlorobenzene	18.244	180	294225	49.03	ug/L	99
122)	hexachlorobutadiene	18.376	225	140776	47.37	ug/L	100
123)	naphthalene	18.501	128	760184	48.36	ug/L	100
124)	1,2,3-trichlorobenzene	18.727	180	278215	47.97	ug/L	100
125)	hexachloroethane	17.018	119	145921	47.78	ug/L	100
126)	Benzyl chloride	16.478	91	378489	37.96	ug/L	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 4d49241.D
Acq On : 13 Jun 2014 7:01 pm
Operator : PayalR
Sample : icv2197-50
Misc : MS68671,V4D2197,5,,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 16 09:19:46 2014
Quant Method : C:\msdchem\1\methods\M4D2197.M
Quant Title : SW-846 Method 8260B/8260C
QLast Update : Fri Jun 13 18:12:09 2014
Response via : Initial Calibration



7.6.11



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 4d49947.D
 Acq On : 3 Jul 2014 10:21 am
 Operator : PayalR
 Sample : cc2197-20
 Misc : MS69975,V4D2227,5,,,,,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 07 08:05:29 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M4D2197.M
 Quant Title : SW-846 Method 8260B/8260C
 QLast Update : Fri Jun 13 18:12:09 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.998	65	92486	500.00	ug/L	0.00
4) pentafluorobenzene	9.588	168	199749	50.00	ug/L	0.00
51) 1,4-difluorobenzene	10.543	114	256273	50.00	ug/L	0.00
83) chlorobenzene-d5	13.914	117	235897	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	16.341	152	127179	50.00	ug/L	0.00
System Monitoring Compounds						
45) dibromofluoromethane (s)	9.567	113	99829	47.03	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery =	94.06%		
46) 1,2-dichloroethane-d4 (s)	10.023	65	119156	54.17	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery =	108.34%		
75) toluene-d8 (s)	12.304	98	332227	47.80	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery =	95.60%		
100) 4-bromofluorobenzene (s)	15.156	95	134906	41.77	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery =	83.54%		
Target Compounds						
2) 1,4-dioxane	11.292	88	13227	592.93	ug/L	79
3) tertiary butyl alcohol	7.140	59	32669	118.57	ug/L	99
5) chlorodifluoromethane	3.333	51	45602	19.43	ug/L	94
6) dichlorodifluoromethane	3.328	85	63413	19.47	ug/L	99
7) chloromethane	3.632	50	66550	18.24	ug/L	98
8) vinyl chloride	3.894	62	61143	18.00	ug/L	98
10) bromomethane	4.571	94	41582	16.98	ug/L	96
11) chloroethane	4.775	64	26834	18.82	ug/L	97
12) trichlorofluoromethane	5.320	101	78410	22.01	ug/L	94
14) ethyl ether	5.782	74	20123	18.71	ug/L	98
16) 2-chloropropane	5.965	43	67159	18.59	ug/L	92
17) acrolein	6.007	56	97933	168.09	ug/L	98
18) 1,1-dichloroethene	6.222	96	34201	16.22	ug/L	95
19) acetone	6.280	43	14364	18.27	ug/L	96
20) allyl chloride	6.815	76	17228	16.44	ug/L	87
21) acetonitrile	6.731	40	31680	226.60	ug/L	97
22) iodomethane	6.495	142	72288	18.15	ug/L	91
23) iso-butyl alcohol	9.871	41	21390	211.72	ug/L	92
24) carbon disulfide	6.636	76	126954	16.48	ug/L	96
25) methylene chloride	7.014	84	43142	16.80	ug/L	95
26) 1-chloropropane	7.077	42	70448	19.22	ug/L	95
27) methyl acetate	6.825	74	7214	16.85	ug/L	80
28) methyl tert butyl ether	7.460	73	126153	18.96	ug/L	96
29) trans-1,2-dichloroethene	7.470	96	38417	16.25	ug/L	94
30) di-isopropyl ether	8.194	45	154364	20.64	ug/L	94
31) ethyl tert-butyl ether	8.713	59	150366	21.90	ug/L	98
32) 2-butanone	8.943	72	5143	16.91	ug/L	98
33) 1,1-dichloroethane	8.115	63	77109	19.09	ug/L	99
34) chloroprene	8.262	53	60244	20.79	ug/L	91
35) acrylonitrile	7.376	53	85011	81.08	ug/L	98
36) vinyl acetate	8.157	86	6391	17.71	ug/L	69
37) ethyl acetate	8.996	45	8085	17.34	ug/L	86

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 4d49947.D
 Acq On : 3 Jul 2014 10:21 am
 Operator : PayalR
 Sample : cc2197-20
 Misc : MS69975,V4D2227,5,,,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 07 08:05:29 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M4D2197.M
 Quant Title : SW-846 Method 8260B/8260C
 QLast Update : Fri Jun 13 18:12:09 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
38) 2,2-dichloropropane	8.970	77	65265	21.30	ug/L	97
39) cis-1,2-dichloroethene	8.949	96	43163	16.72	ug/L	94
40) propionitrile	9.001	54	69035	162.26	ug/L	98
41) methyl acrylate	9.069	55	41615	17.26	ug/L #	97
42) bromochloromethane	9.274	128	22894	18.72	ug/L	96
43) tetrahydrofuran	9.347	42	13851	15.61	ug/L	95
44) chloroform	9.358	83	78535	19.15	ug/L	99
47) freon 113	6.238	151	28846	19.21	ug/L	94
48) methacrylonitrile	9.227	41	28831	17.13	ug/L	94
49) 1,1,1-trichloroethane	9.651	97	65641	20.19	ug/L	99
50) tert-amyl methyl ether	10.223	73	142333	21.21	ug/L	98
52) epichlorohydrin	11.853	57	29663	100.02	ug/L	99
53) n-butyl alcohol	10.679	56	83045	903.95	ug/L	97
54) cyclohexane	9.751	84	50087	16.96	ug/L	89
56) carbon tetrachloride	9.877	117	59437	21.24	ug/L	100
57) 1,1-dichloropropene	9.856	75	54842	18.41	ug/L	97
58) hexane	7.900	57	48498	19.53	ug/L	96
59) benzene	10.123	78	155018	17.74	ug/L	98
60) ISO-OCTANE	10.212	57	145838	19.32	ug/L	92
61) heptane	10.406	57	29031	19.61	ug/L	98
62) isopropyl acetate	10.113	43	103205	21.69	ug/L	95
63) 1,2-dichloroethane	10.118	62	65088	22.00	ug/L	97
64) trichloroethene	10.899	95	42281	17.67	ug/L	97
66) 2-nitropropane	11.696	43	14483	19.03	ug/L	98
67) 2-chloroethyl vinyl ether	11.759	63	141706	78.50	ug/L	99
68) methyl methacrylate	11.224	41	41998	18.33	ug/L	95
69) 1,2-dichloropropane	11.161	63	45304	18.56	ug/L	88
70) methylcyclohexane	11.161	83	62966	18.37	ug/L	94
72) dibromomethane	11.308	93	31879	19.33	ug/L	100
73) bromodichloromethane	11.460	83	64007	19.55	ug/L	100
74) cis-1,3-dichloropropene	11.974	75	74703	19.52	ug/L	94
76) 4-methyl-2-pentanone	12.105	58	19434	16.29	ug/L #	83
77) toluene	12.383	92	95586	18.11	ug/L	98
78) 3-methyl-1-butanol	12.121	70	30028	343.07	ug/L	95
79) trans-1,3-dichloropropene	12.577	75	72155	19.97	ug/L	97
80) ethyl methacrylate	12.624	69	59042	16.56	ug/L	94
81) 1,1,2-trichloroethane	12.797	83	37039	17.77	ug/L	99
82) 2-hexanone	13.028	58	18989	16.59	ug/L	91
84) tetrachloroethene	13.012	166	42703	18.00	ug/L	99
85) 1,3-dichloropropane	12.996	76	68859	18.55	ug/L	100
86) butyl acetate	13.133	56	38267	19.04	ug/L	90
87) dibromochloromethane	13.264	129	53964	19.25	ug/L	98
88) 1,2-dibromoethane	13.426	107	46090	17.90	ug/L	99
90) chlorobenzene	13.951	112	113973	18.16	ug/L	98
91) 1,1,1,2-tetrachloroethane	14.013	131	45016	18.87	ug/L	98
92) ethylbenzene	14.034	91	194964	18.51	ug/L	99
93) m,p-xylene	14.155	106	141543	36.39	ug/L	94
94) o-xylene	14.595	106	72221	18.53	ug/L	93
95) styrene	14.601	104	122969	17.88	ug/L	96
97) bromoform	14.842	173	39268	18.60	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 4d49947.D
 Acq On : 3 Jul 2014 10:21 am
 Operator : PayalR
 Sample : cc2197-20
 Misc : MS69975,V4D2227,5,,,,,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 07 08:05:29 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M4D2197.M
 Quant Title : SW-846 Method 8260B/8260C
 QLast Update : Fri Jun 13 18:12:09 2014
 Response via : Initial Calibration

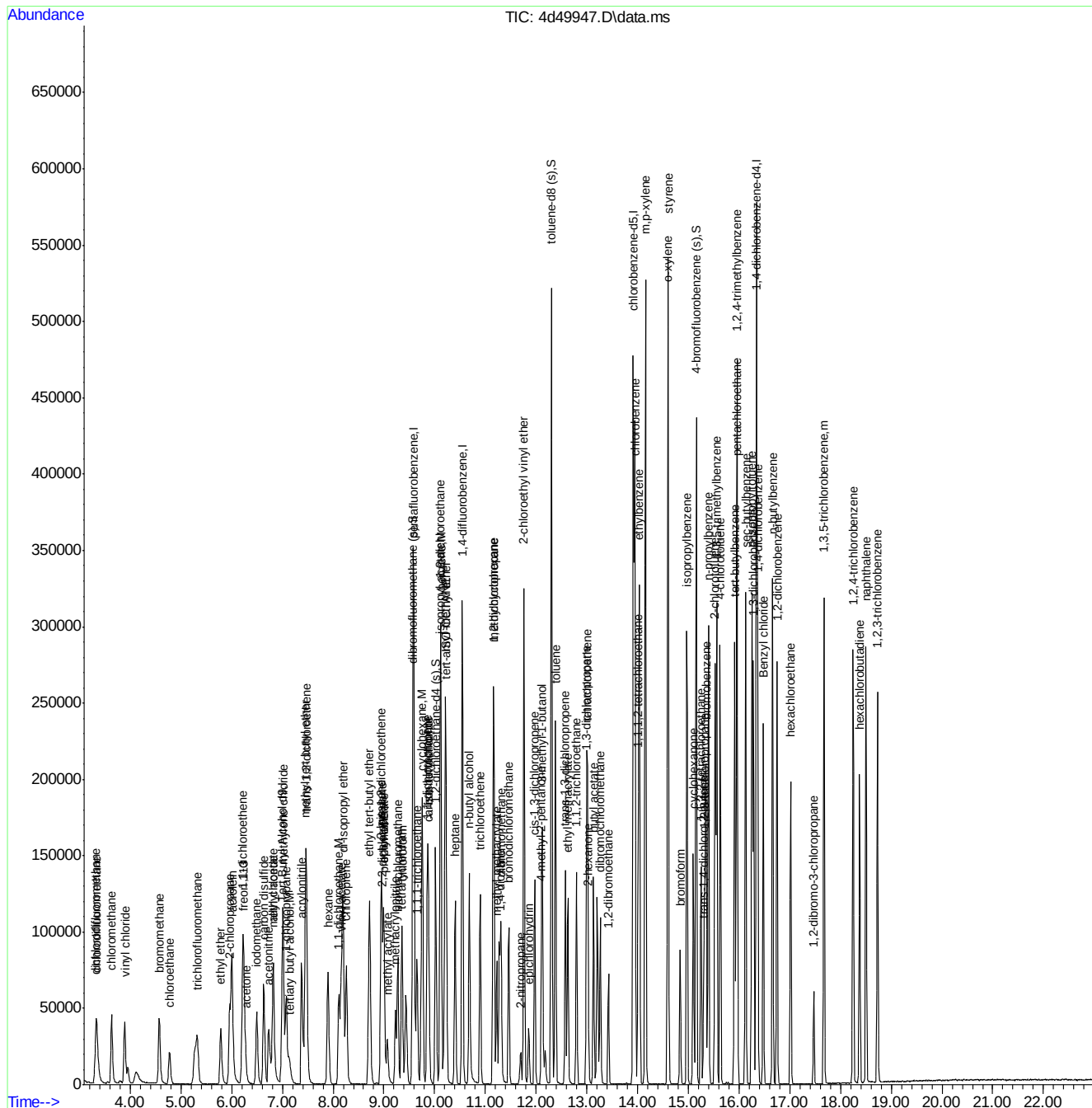
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
99)	isopropylbenzene	14.973	105	187202	17.77	ug/L	98
101)	bromobenzene	15.350	156	52771	17.94	ug/L	96
102)	cyclohexanone	15.099	55	63439	169.10	ug/L	95
103)	1,1,2,2-tetrachloroethane	15.251	83	70368	17.39	ug/L	99
104)	trans-1,4-dichloro-2-b...	15.303	53	11707	16.30	ug/L	87
105)	1,2,3-trichloropropane	15.324	110	16215	18.15	ug/L	94
106)	n-propylbenzene	15.398	91	223078	17.75	ug/L	99
107)	2-chlorotoluene	15.529	126	46897	17.70	ug/L	95
108)	4-chlorotoluene	15.628	91	149199	18.24	ug/L	97
109)	1,3,5-trimethylbenzene	15.560	105	162156	17.66	ug/L	98
110)	tert-butylbenzene	15.911	119	131350	17.49	ug/L	94
111)	pentachloroethane	15.964	167	35347	17.91	ug/L	94
112)	1,2,4-trimethylbenzene	15.953	105	164012	17.77	ug/L	97
113)	sec-butylbenzene	16.132	105	211386	17.66	ug/L	99
114)	1,3-dichlorobenzene	16.284	146	100898	17.99	ug/L	99
115)	p-isopropyltoluene	16.252	119	170995	17.63	ug/L	97
116)	1,4-dichlorobenzene	16.368	146	102880	18.01	ug/L	97
117)	1,2-dichlorobenzene	16.750	146	100927	17.99	ug/L	98
118)	n-butylbenzene	16.661	92	94253	17.91	ug/L	99
119)	1,2-dibromo-3-chloropr...	17.474	75	13766	18.46	ug/L	87
120)	1,3,5-trichlorobenzene	17.673	180	86215	18.64	ug/L	100
121)	1,2,4-trichlorobenzene	18.250	180	80138	18.82	ug/L	99
122)	hexachlorobutadiene	18.376	225	37803	17.93	ug/L	94
123)	naphthalene	18.501	128	191720	17.19	ug/L	99
124)	1,2,3-trichlorobenzene	18.727	180	73028	17.74	ug/L	99
125)	hexachloroethane	17.018	119	37616	17.36	ug/L	98
126)	Benzyl chloride	16.478	91	147293	20.82	ug/L	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 4d49947.D
Acq On : 3 Jul 2014 10:21 am
Operator : PayalR
Sample : cc2197-20
Misc : MS69975,V4D2227,5,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 07 08:05:29 2014
Quant Method : C:\MSDCHEM\1\METHODS\M4D2197.M
Quant Title : SW-846 Method 8260B/8260C
QLast Update : Fri Jun 13 18:12:09 2014
Response via : Initial Calibration



7.6.12



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : Y146733.D
 Acq On : 24 Jun 2014 11:30 am
 Operator : prashans
 Sample : IC6377-0.2
 Misc : MS69208,VY6377,5.0,,,,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 24 14:34:44 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MYS6377.M
 Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Tue Jun 24 14:19:47 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.35	65	59489	500.00	ug/L	-0.01
5) pentafluorobenzene	9.52	168	163613	50.00	ug/L	-0.02
58) 1,4-difluorobenzene	10.43	114	196462	50.00	ug/L	-0.01
88) chlorobenzene-d5	13.56	117	172152	50.00	ug/L	0.00
103) 1,4-dichlorobenzene-d4	15.84	152	90195	50.00	ug/L	0.00

System Monitoring Compounds

50) dibromofluoromethane (s)	9.59	113	736	0.43	ug/L	-0.02
Spiked Amount	50.000	Range	59 - 130	Recovery	=	0.86%#
51) 1,2-dichloroethane-d4 (s)	10.03	65	988	0.44	ug/L	0.00
Spiked Amount	50.000	Range	65 - 123	Recovery	=	0.88%#
80) toluene-d8 (s)	12.06	98	2266	0.50	ug/L	0.00
Spiked Amount	50.000	Range	77 - 125	Recovery	=	1.00%#
105) 4-bromofluorobenzene (s)	14.70	95	1199	0.70	ug/L	0.00
Spiked Amount	50.000	Range	71 - 132	Recovery	=	1.40%#

Target Compounds

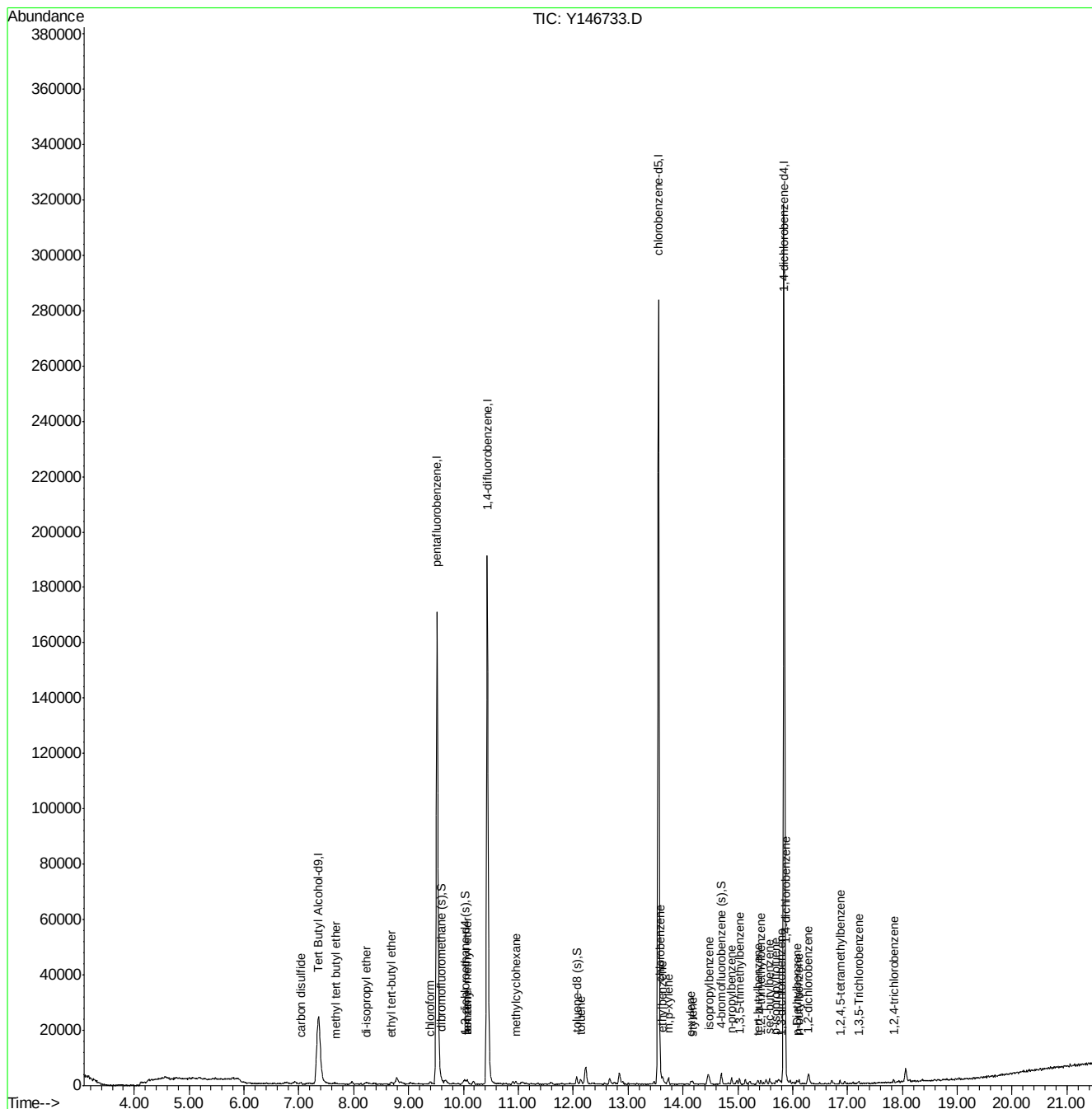
						Qvalue
28) carbon disulfide	7.03	76	846	0.20	ug/L	72
32) methyl tert butyl ether	7.67	73	750	0.15	ug/L	54
34) di-isopropyl ether	8.23	45	1069	0.25	ug/L	77
35) ethyl tert-butyl ether	8.69	59	898	0.19	ug/L	67
47) chloroform	9.39	83	767	0.25	ug/L	95
57) tert-amyl methyl ether	10.08	73	1034	0.21	ug/L	63
65) benzene	10.07	78	1127	0.22	ug/L	79
75) methylcyclohexane	10.95	83	437	0.26	ug/L	90
82) toluene	12.13	91	1607	0.31	ug/L	92
96) chlorobenzene	13.59	112	639	0.18	ug/L	79
98) ethylbenzene	13.63	91	1228	0.21	ug/L	92
99) m,p-xylene	13.73	106	1045	0.47	ug/L #	55
100) o-xylene	14.15	91	985	0.20	ug/L	88
101) styrene	14.17	104	701	0.20	ug/L	92
104) isopropylbenzene	14.48	105	1400	0.25	ug/L	91
112) n-propylbenzene	14.89	91	1258	0.20	ug/L	91
116) 1,3,5-trimethylbenzene	15.03	105	1079	0.22	ug/L	90
117) tert-butylbenzene	15.37	119	717	0.18	ug/L	89
119) 1,2,4-trimethylbenzene	15.42	105	1078	0.23	ug/L	97
120) sec-butylbenzene	15.58	105	1345	0.23	ug/L	77
121) 1,3-dichlorobenzene	15.79	146	572	0.17	ug/L #	70
122) p-isopropyltoluene	15.70	119	1029	0.21	ug/L	93
123) 1,4-dichlorobenzene	15.87	146	593	0.18	ug/L	73
124) 1,2-dichlorobenzene	16.27	146	449	0.14	ug/L	80
125) n-butylbenzene	16.11	92	476	0.20	ug/L #	73
126) p-Diethylbenzene	16.08	119	650	0.24	ug/L #	59
128) 1,3,5-Trichlorobenzene	17.21	180	500	0.19	ug/L #	76
129) 1,2,4-trichlorobenzene	17.84	180	352	0.16	ug/L	82
130) 1,2,4,5-tetramethylbenzene	16.86	119	981	0.23	ug/L #	86

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : Y146733.D
Acq On : 24 Jun 2014 11:30 am
Operator : prashans
Sample : IC6377-0.2
Misc : MS69208,VY6377,5.0,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 24 14:34:44 2014
Quant Method : C:\MSDCHEM\1\METHODS\MYS6377.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Jun 24 14:19:47 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : Y146734.D
 Acq On : 24 Jun 2014 11:58 am
 Operator : prashans
 Sample : IC6377-0.5
 Misc : MS69208,VY6377,5.0,,,,1
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 24 14:38:20 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MYS6377.M
 Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Tue Jun 24 14:19:47 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.36	65	57858	500.00	ug/L	0.00
5) pentafluorobenzene	9.52	168	177108	50.00	ug/L	-0.01
58) 1,4-difluorobenzene	10.44	114	212902	50.00	ug/L	0.00
88) chlorobenzene-d5	13.56	117	185760	50.00	ug/L	0.00
103) 1,4-dichlorobenzene-d4	15.85	152	94022	50.00	ug/L	0.00

System Monitoring Compounds

50) dibromofluoromethane (s)	9.60	113	955	0.51	ug/L	0.00
Spiked Amount	50.000	Range	59 - 130	Recovery	=	1.02%#
51) 1,2-dichloroethane-d4 (s)	10.02	65	1051	0.43	ug/L	-0.01
Spiked Amount	50.000	Range	65 - 123	Recovery	=	0.86%#
80) toluene-d8 (s)	12.06	98	2993	0.62	ug/L	0.00
Spiked Amount	50.000	Range	77 - 125	Recovery	=	1.24%#
105) 4-bromofluorobenzene (s)	14.70	95	1342	0.75	ug/L	0.00
Spiked Amount	50.000	Range	71 - 132	Recovery	=	1.50%#

Target Compounds

						Qvalue
13) chloromethane	4.26	50	1355	0.73	ug/L	85
14) vinyl chloride	4.51	62	1183	0.70	ug/L	84
16) bromomethane	5.18	94	979	0.70	ug/L	78
17) chloroethane	5.36	64	502	0.65	ug/L	45
19) trichlorofluoromethane	5.80	101	1202	0.43	ug/L	81
23) 1,1-dichloroethene	6.64	61	1089	0.48	ug/L	80
28) carbon disulfide	7.04	76	2909	0.65	ug/L	90
32) methyl tert butyl ether	7.68	73	1946	0.36	ug/L	87
33) trans-1,2-dichloroethene	7.72	61	1054	0.47	ug/L	92
34) di-isopropyl ether	8.23	45	2407	0.51	ug/L	89
35) ethyl tert-butyl ether	8.69	59	2036	0.39	ug/L	98
37) 1,1-dichloroethane	8.30	63	1373	0.45	ug/L	85
38) chloroprene	8.38	53	894	0.42	ug/L	92
42) 2,2-dichloropropane	9.02	77	1168	0.42	ug/L	74
43) cis-1,2-dichloroethene	9.04	96	906	0.51	ug/L #	71
47) chloroform	9.40	83	1689	0.51	ug/L	94
54) 1,1,1-trichloroethane	9.61	97	1117	0.37	ug/L	83
55) cyclohexane	9.66	84	1151	0.59	ug/L #	88
56) 2,2,4-trimethylpentane	10.02	57	2480	0.55	ug/L	87
57) tert-amyl methyl ether	10.07	73	2147	0.41	ug/L	97
61) carbon tetrachloride	9.82	117	956	0.42	ug/L	92
62) 1,1-dichloropropene	9.80	75	1020	0.57	ug/L	89
65) benzene	10.07	78	3172	0.58	ug/L	91
68) 1,2-dichloroethane	10.13	62	655	0.25	ug/L #	47
69) trichloroethene	10.77	95	754	0.51	ug/L	95
72) 2-chloroethyl vinyl ether	11.59	63	1111	8.37	ug/L	92
74) 1,2-dichloropropane	11.06	63	752	0.58	ug/L	68
75) methylcyclohexane	10.95	83	1152	0.64	ug/L	86
76) Tert-amyl ethyl ether	10.91	59	1731	0.56	ug/L #	91
78) bromodichloromethane	11.35	83	883	0.36	ug/L	92
79) cis-1,3-dichloropropene	11.80	75	1123	0.47	ug/L	94
82) toluene	12.13	91	3864	0.68	ug/L	99
84) trans-1,3-dichloropropene	12.37	75	845	0.35	ug/L	88

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : Y146734.D
 Acq On : 24 Jun 2014 11:58 am
 Operator : prashans
 Sample : IC6377-0.5
 Misc : MS69208,VY6377,5.0,,,,1
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 24 14:38:20 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MYS6377.M
 Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Tue Jun 24 14:19:47 2014
 Response via : Initial Calibration

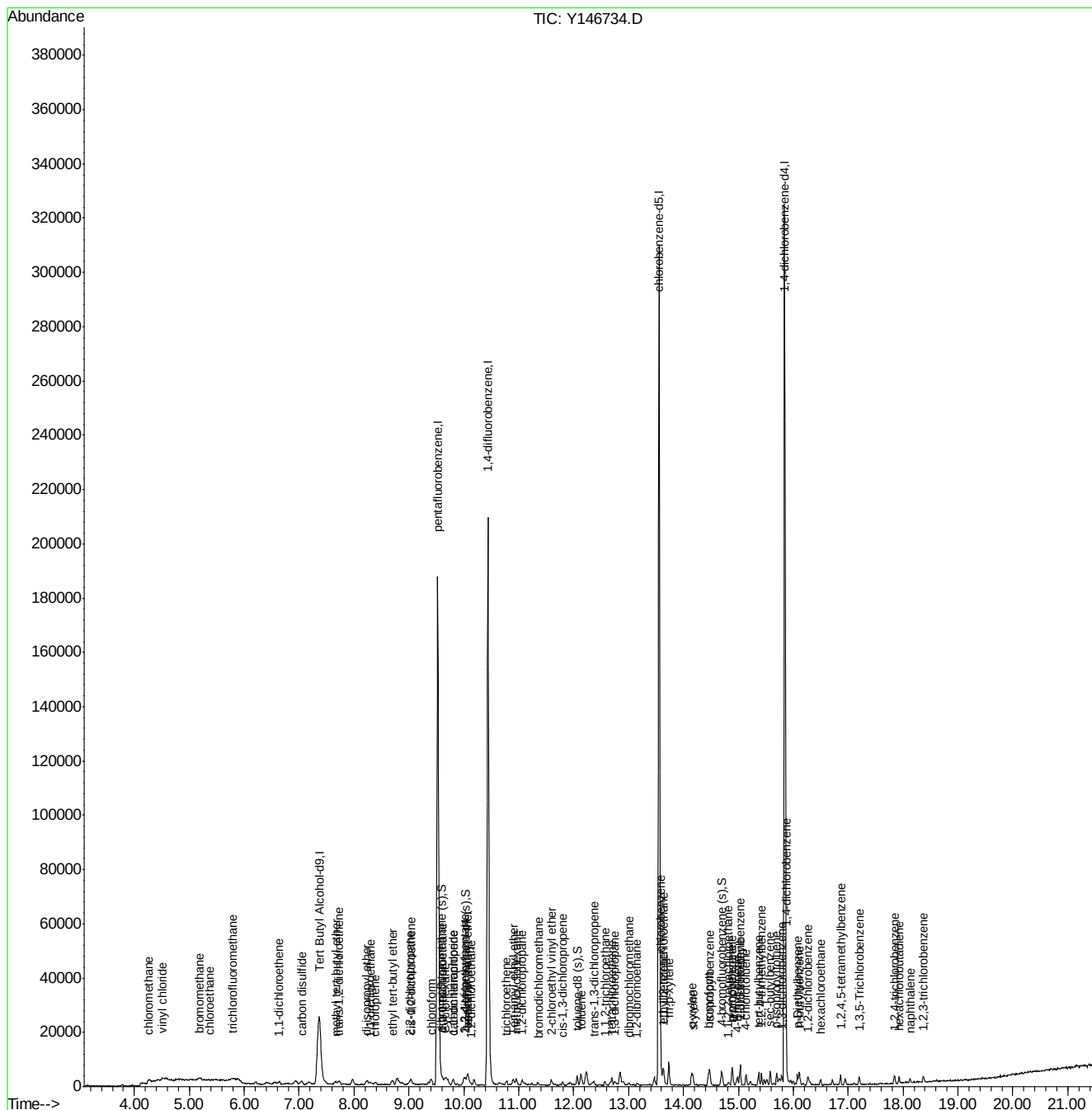
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
86) 1,1,2-trichloroethane	12.57	83	463	0.44	ug/L	97
89) tetrachloroethene	12.69	166	914	0.55	ug/L	94
90) 1,3-dichloropropane	12.76	76	871	0.43	ug/L	88
92) dibromochloromethane	13.01	129	732	0.39	ug/L	81
93) 1,2-dibromoethane	13.16	107	571	0.43	ug/L	91
96) chlorobenzene	13.59	112	2061	0.53	ug/L	86
97) 1,1,1,2-tetrachloroethane	13.65	131	656	0.38	ug/L	90
98) ethylbenzene	13.63	91	3938	0.61	ug/L	95
99) m,p-xylene	13.73	106	2998	1.26	ug/L	79
100) o-xylene	14.15	91	2920	0.56	ug/L	92
101) styrene	14.17	104	1950	0.52	ug/L	90
102) bromoform	14.46	173	473	0.36	ug/L	87
104) isopropylbenzene	14.48	105	3730	0.64	ug/L	93
107) bromobenzene	14.90	156	821	0.44	ug/L	81
109) 1,1,2,2-tetrachloroethane	14.81	83	838	0.54	ug/L	74
112) n-propylbenzene	14.89	91	4231	0.65	ug/L	95
113) 4-Ethyltoluene	14.98	105	2897	0.57	ug/L	97
114) 2-chlorotoluene	15.04	126	822	0.54	ug/L #	86
115) 4-chlorotoluene	15.14	91	2623	0.58	ug/L	92
116) 1,3,5-trimethylbenzene	15.03	105	3143	0.62	ug/L	99
117) tert-butylbenzene	15.37	119	2576	0.63	ug/L	92
119) 1,2,4-trimethylbenzene	15.42	105	2865	0.59	ug/L	91
120) sec-butylbenzene	15.58	105	4024	0.67	ug/L	96
121) 1,3-dichlorobenzene	15.79	146	1651	0.47	ug/L	89
122) p-isopropyltoluene	15.70	119	3068	0.61	ug/L	94
123) 1,4-dichlorobenzene	15.87	146	1792	0.52	ug/L	89
124) 1,2-dichlorobenzene	16.27	146	1560	0.48	ug/L	84
125) n-butylbenzene	16.11	92	1626	0.65	ug/L	81
126) p-Diethylbenzene	16.08	119	1672	0.60	ug/L #	81
128) 1,3,5-Trichlorobenzene	17.20	180	1387	0.52	ug/L #	85
129) 1,2,4-trichlorobenzene	17.84	180	1093	0.48	ug/L	99
130) 1,2,4,5-tetramethylbenzene	16.86	119	2471	0.57	ug/L #	96
131) hexachlorobutadiene	17.93	225	782	0.54	ug/L	91
132) naphthalene	18.13	128	2037	0.52	ug/L	87
133) 1,2,3-trichlorobenzene	18.37	180	984	0.49	ug/L	89
134) hexachloroethane	16.50	119	590	0.50	ug/L	91

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : Y146734.D
Acq On : 24 Jun 2014 11:58 am
Operator : prashans
Sample : IC6377-0.5
Misc : MS69208,VY6377,5.0,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 24 14:38:20 2014
Quant Method : C:\MSDCHEM\1\METHODS\MYS6377.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Jun 24 14:19:47 2014
Response via : Initial Calibration



MYS6377.M Thu Jun 26 16:02:14 2014 RPT1

Page: 3

7.6.14



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : Y146735.D
 Acq On : 24 Jun 2014 12:27 pm
 Operator : prashans
 Sample : IC6377-1
 Misc : MS69208,VY6377,5.0,,,,1
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 24 14:43:14 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MYS6377.M
 Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Tue Jun 24 14:19:47 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.36	65	59972	500.00	ug/L	0.00
5) pentafluorobenzene	9.52	168	173758	50.00	ug/L	-0.01
58) 1,4-difluorobenzene	10.44	114	209136	50.00	ug/L	0.00
88) chlorobenzene-d5	13.56	117	182071	50.00	ug/L	0.00
103) 1,4-dichlorobenzene-d4	15.85	152	94334	50.00	ug/L	0.00

System Monitoring Compounds

50) dibromofluoromethane (s)	9.61	113	1761	0.96	ug/L	0.00
Spiked Amount	50.000	Range	59 - 130	Recovery	=	1.92%#
51) 1,2-dichloroethane-d4 (s)	10.03	65	1888	0.79	ug/L	0.00
Spiked Amount	50.000	Range	65 - 123	Recovery	=	1.58%#
80) toluene-d8 (s)	12.06	98	6015	1.26	ug/L	0.00
Spiked Amount	50.000	Range	77 - 125	Recovery	=	2.52%#
105) 4-bromofluorobenzene (s)	14.70	95	2343	1.30	ug/L	0.00
Spiked Amount	50.000	Range	71 - 132	Recovery	=	2.60%#

Target Compounds

						Qvalue
2) 1,4-dioxane	11.18	88	237	18.58	ug/L	# 35
4) tertiary butyl alcohol	7.47	59	759	4.35	ug/L	44
11) chlorodifluoromethane	3.96	51	1216	0.88	ug/L	# 61
12) dichlorodifluoromethane	3.95	85	1511	0.76	ug/L	90
13) chloromethane	4.27	50	2286	1.26	ug/L	96
14) vinyl chloride	4.51	62	1881	1.13	ug/L	88
16) bromomethane	5.18	94	1653	1.21	ug/L	74
17) chloroethane	5.36	64	810	1.08	ug/L	54
19) trichlorofluoromethane	5.81	101	2195	0.79	ug/L	80
20) ethyl ether	6.20	74	671	0.86	ug/L	85
22) acrolein	6.51	56	535185	2105.24	ug/L	99
23) 1,1-dichloroethene	6.63	61	1859	0.83	ug/L	91
27) iodomethane	6.93	142	2360	0.81	ug/L	85
28) carbon disulfide	7.04	76	4591	1.05	ug/L	95
32) methyl tert butyl ether	7.68	73	4240	0.80	ug/L	89
33) trans-1,2-dichloroethene	7.72	61	1805	0.82	ug/L	95
34) di-isopropyl ether	8.24	45	4982	1.08	ug/L	96
35) ethyl tert-butyl ether	8.70	59	4765	0.93	ug/L	90
37) 1,1-dichloroethane	8.31	63	2505	0.84	ug/L	96
38) chloroprene	8.39	53	1758	0.83	ug/L	90
39) acrylonitrile	7.79	53	1945	5.03	ug/L	90
42) 2,2-dichloropropane	9.02	77	2116	0.77	ug/L	87
43) cis-1,2-dichloroethene	9.04	96	1660	0.94	ug/L	99
44) propionitrile	9.18	54	1215	7.33	ug/L	88
45) bromochloromethane	9.36	130	979	0.81	ug/L	89
47) chloroform	9.40	83	2939	0.90	ug/L	91
48) tert-Butyl Formate	9.41	59	852	1.03	ug/L	# 57
54) 1,1,1-trichloroethane	9.62	97	1925	0.64	ug/L	76
55) Cyclohexane	9.67	84	2022	1.05	ug/L	# 92
56) 2,2,4-trimethylpentane	10.01	57	5449	1.23	ug/L	94
57) tert-amyl methyl ether	10.08	73	4814	0.93	ug/L	91
59) epichlorohydrin	11.74	57	570	5.37	ug/L	53
60) n-butyl alcohol	10.64	56	1816	61.75	ug/L	91

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : Y146735.D
 Acq On : 24 Jun 2014 12:27 pm
 Operator : prashans
 Sample : IC6377-1
 Misc : MS69208,VY6377,5.0,,,,1
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 24 14:43:14 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MYS6377.M
 Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Tue Jun 24 14:19:47 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
61) carbon tetrachloride	9.81	117	1817	0.82	ug/L	88
62) 1,1-dichloropropene	9.80	75	1703	0.97	ug/L	95
65) benzene	10.07	78	5848	1.09	ug/L	98
66) heptane	10.19	57	1186	1.62	ug/L	95
68) 1,2-dichloroethane	10.12	62	1585	0.62	ug/L	93
69) trichloroethene	10.77	95	1398	0.97	ug/L	91
72) 2-chloroethyl vinyl ether	11.59	63	2636	20.22	ug/L	96
74) 1,2-dichloropropane	11.06	63	1529	1.19	ug/L	80
75) methylcyclohexane	10.96	83	2394	1.35	ug/L	89
76) Tert-amyl ethyl ether	10.89	59	3224	1.05	ug/L #	92
77) dibromomethane	11.23	93	742	0.75	ug/L	84
78) bromodichloromethane	11.34	83	1945	0.80	ug/L	92
79) cis-1,3-dichloropropene	11.80	75	2443	1.03	ug/L	95
82) toluene	12.13	91	6398	1.15	ug/L	98
84) trans-1,3-dichloropropene	12.36	75	2031	0.87	ug/L	97
85) ethyl methacrylate	12.33	69	1641	1.13	ug/L	95
86) 1,1,2-trichloroethane	12.57	83	1057	1.02	ug/L	95
89) tetrachloroethene	12.70	166	1533	0.94	ug/L	97
90) 1,3-dichloropropane	12.75	76	2116	1.07	ug/L	95
92) dibromochloromethane	13.01	129	1488	0.81	ug/L	98
93) 1,2-dibromoethane	13.16	107	1234	0.94	ug/L	99
94) 3,3-Dimethyl-1-Butanol	12.90	57	1509	14.81	ug/L #	68
96) chlorobenzene	13.59	112	4078	1.08	ug/L	87
97) 1,1,1,2-tetrachloroethane	13.65	131	1418	0.84	ug/L	73
98) ethylbenzene	13.63	91	6708	1.06	ug/L	94
99) m,p-xylene	13.73	106	5191	2.23	ug/L	87
100) o-xylene	14.15	91	5290	1.03	ug/L	94
101) styrene	14.17	104	4083	1.11	ug/L	93
102) bromoform	14.46	173	1008	0.78	ug/L	87
104) isopropylbenzene	14.48	105	6413	1.10	ug/L	97
107) bromobenzene	14.90	156	1792	0.96	ug/L	88
108) cyclohexanone	14.69	55	3068	19.92	ug/L	92
109) 1,1,2,2-tetrachloroethane	14.82	83	1829	1.17	ug/L	85
111) 1,2,3-trichloropropane	14.90	110	390	0.94	ug/L	82
112) n-propylbenzene	14.88	91	7303	1.11	ug/L	99
113) 4-Ethyltoluene	14.98	105	5803	1.13	ug/L	98
114) 2-chlorotoluene	15.04	126	1534	1.01	ug/L	99
115) 4-chlorotoluene	15.14	91	4690	1.04	ug/L	95
116) 1,3,5-trimethylbenzene	15.03	105	5282	1.04	ug/L	96
117) tert-butylbenzene	15.37	119	4493	1.10	ug/L	88
118) pentachloroethane	15.48	167	1079	0.87	ug/L	85
119) 1,2,4-trimethylbenzene	15.42	105	5284	1.09	ug/L	93
120) sec-butylbenzene	15.58	105	6903	1.15	ug/L	99
121) 1,3-dichlorobenzene	15.79	146	3229	0.93	ug/L	98
122) p-isopropyltoluene	15.70	119	5856	1.15	ug/L	89
123) 1,4-dichlorobenzene	15.87	146	3472	1.01	ug/L	95
124) 1,2-dichlorobenzene	16.27	146	3189	0.98	ug/L	96
125) n-butylbenzene	16.11	92	2810	1.11	ug/L	88
126) p-Diethylbenzene	16.08	119	3268	1.17	ug/L #	78
128) 1,3,5-Trichlorobenzene	17.20	180	2681	1.00	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : Y146735.D
Acq On : 24 Jun 2014 12:27 pm
Operator : prashans
Sample : IC6377-1
Misc : MS69208,VY6377,5.0,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 24 14:43:14 2014
Quant Method : C:\MSDCHEM\1\METHODS\MYS6377.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Jun 24 14:19:47 2014
Response via : Initial Calibration

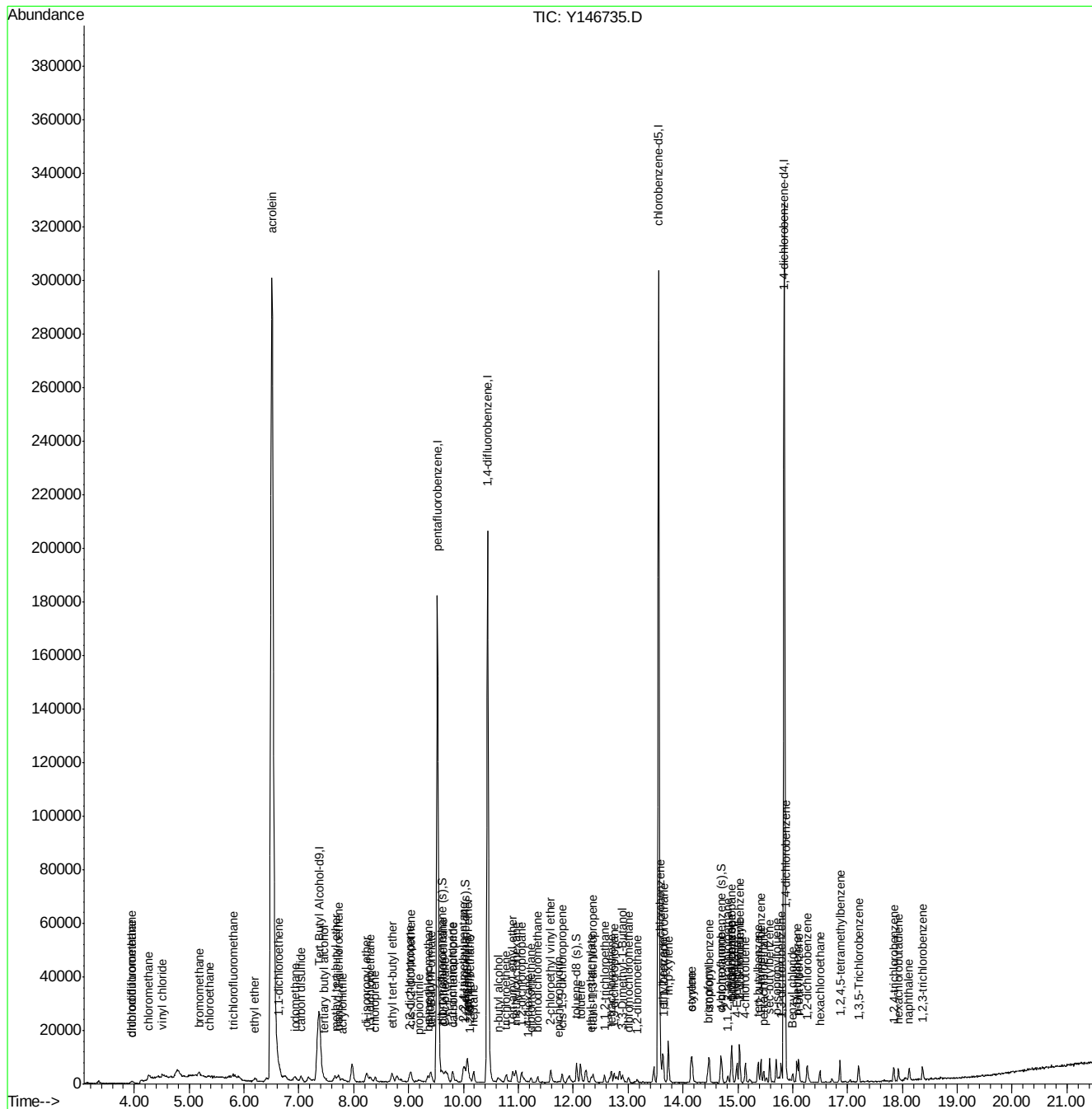
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
129) 1,2,4-trichlorobenzene	17.84	180	2242	0.98	ug/L	89
130) 1,2,4,5-tetramethylbenzene	16.86	119	4738	1.08	ug/L	95
131) hexachlorobutadiene	17.93	225	1374	0.94	ug/L	91
132) naphthalene	18.13	128	4156	1.06	ug/L	95
133) 1,2,3-trichlorobenzene	18.37	180	2041	1.02	ug/L	96
134) hexachloroethane	16.50	119	1112	0.93	ug/L	92
135) Benzyl chloride	16.00	91	3234	1.12	ug/L	96

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : Y146735.D
Acq On : 24 Jun 2014 12:27 pm
Operator : prashans
Sample : IC6377-1
Misc : MS69208,VY6377,5.0,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 24 14:43:14 2014
Quant Method : C:\MSDCHEM\1\METHODS\MYS6377.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Jun 24 14:19:47 2014
Response via : Initial Calibration



MYS6377.M Thu Jun 26 16:02:15 2014 RPT1

Page: 4

7.6.15

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : Y146736.D
 Acq On : 24 Jun 2014 12:56 pm
 Operator : prashans
 Sample : IC6377-2
 Misc : MS69208,VY6377,5.0,,,,1
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 24 14:52:41 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MYS6377.M
 Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Tue Jun 24 14:19:47 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.36	65	55673	500.00	ug/L	0.00
5) pentafluorobenzene	9.52	168	169892	50.00	ug/L	-0.01
58) 1,4-difluorobenzene	10.44	114	206825	50.00	ug/L	0.00
88) chlorobenzene-d5	13.56	117	181126	50.00	ug/L	0.00
103) 1,4-dichlorobenzene-d4	15.85	152	92632	50.00	ug/L	0.00

System Monitoring Compounds

50) dibromofluoromethane (s)	9.61	113	3206	1.80	ug/L	0.00
Spiked Amount	50.000	Range	59 - 130	Recovery	=	3.60%#
51) 1,2-dichloroethane-d4 (s)	10.03	65	3270	1.40	ug/L	0.00
Spiked Amount	50.000	Range	65 - 123	Recovery	=	2.80%#
80) toluene-d8 (s)	12.06	98	10833	2.29	ug/L	0.00
Spiked Amount	50.000	Range	77 - 125	Recovery	=	4.58%#
105) 4-bromofluorobenzene (s)	14.70	95	4213	2.38	ug/L	0.00
Spiked Amount	50.000	Range	71 - 132	Recovery	=	4.76%#

Target Compounds

						Qvalue
4) tertiary butyl alcohol	7.48	59	1432	8.83	ug/L	# 64
11) chlorodifluoromethane	3.97	51	2217	1.64	ug/L	# 86
12) dichlorodifluoromethane	3.94	85	2402	1.23	ug/L	90
13) chloromethane	4.26	50	3338	1.88	ug/L	96
14) vinyl chloride	4.51	62	2882	1.77	ug/L	91
16) bromomethane	5.18	94	2508	1.87	ug/L	90
17) chloroethane	5.36	64	1384	1.88	ug/L	79
19) trichlorofluoromethane	5.80	101	3372	1.24	ug/L	86
20) ethyl ether	6.20	74	1312	1.72	ug/L	81
21) 2-chloropropane	6.42	63	914	1.79	ug/L	# 35
22) acrolein	6.51	56	261460	1051.90	ug/L	99
23) 1,1-dichloroethene	6.64	61	3484	1.59	ug/L	96
27) iodomethane	6.93	142	4496	1.58	ug/L	83
28) carbon disulfide	7.04	76	8322	1.94	ug/L	92
30) methylene chloride	7.38	49	10499	4.62	ug/L	93
32) methyl tert butyl ether	7.66	73	7764	1.51	ug/L	94
33) trans-1,2-dichloroethene	7.72	61	3527	1.63	ug/L	95
34) di-isopropyl ether	8.23	45	8823	1.96	ug/L	92
35) ethyl tert-butyl ether	8.70	59	8335	1.66	ug/L	97
37) 1,1-dichloroethane	8.30	63	4472	1.53	ug/L	97
38) chloroprene	8.39	53	3105	1.51	ug/L	92
39) acrylonitrile	7.78	53	3771	9.97	ug/L	82
42) 2,2-dichloropropane	9.02	77	3657	1.36	ug/L	95
43) cis-1,2-dichloroethene	9.04	96	3029	1.76	ug/L	# 71
44) propionitrile	9.19	54	2890	17.83	ug/L	71
45) bromochloromethane	9.36	130	1861	1.58	ug/L	94
47) chloroform	9.40	83	4737	1.48	ug/L	97
48) tert-Butyl Formate	9.41	59	1665	2.06	ug/L	86
49) isobutyl alcohol	9.86	41	1046	22.56	ug/L	# 74
52) freon 113	6.57	151	1563	1.55	ug/L	77
54) 1,1,1-trichloroethane	9.62	97	3466	1.18	ug/L	89
55) Cyclohexane	9.67	84	3812	2.03	ug/L	# 98
56) 2,2,4-trimethylpentane	10.01	57	9677	2.24	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : Y146736.D
 Acq On : 24 Jun 2014 12:56 pm
 Operator : prashans
 Sample : IC6377-2
 Misc : MS69208,VY6377,5.0,,,,1
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 24 14:52:41 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MYS6377.M
 Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Tue Jun 24 14:19:47 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
57) tert-amyl methyl ether	10.08	73	8213	1.63	ug/L	95
59) epichlorohydrin	11.74	57	1127	10.74	ug/L	53
60) n-butyl alcohol	10.63	56	3268	112.36	ug/L	96
61) carbon tetrachloride	9.82	117	3147	1.43	ug/L	96
62) 1,1-dichloropropene	9.80	75	3200	1.84	ug/L	90
63) hexane	7.97	57	4984	4.37	ug/L	98
64) Tert Amyl Alcohol	9.97	73	757	10.81	ug/L #	68
65) benzene	10.07	78	10635	2.01	ug/L	98
66) heptane	10.18	57	2116	2.92	ug/L	91
67) isopropyl acetate	9.99	61	940	2.05	ug/L #	84
68) 1,2-dichloroethane	10.11	62	2997	1.19	ug/L	94
69) trichloroethene	10.78	95	2487	1.74	ug/L	87
71) 2-nitropropane	11.59	41	959	2.19	ug/L #	4
72) 2-chloroethyl vinyl ether	11.58	63	4936	38.28	ug/L	92
73) methyl methacrylate	11.07	69	1556	2.10	ug/L	86
74) 1,2-dichloropropane	11.06	63	2739	2.16	ug/L	84
75) methylcyclohexane	10.96	83	4192	2.38	ug/L	91
76) Tert-amyl ethyl ether	10.90	59	5970	1.97	ug/L #	96
77) dibromomethane	11.23	93	1608	1.65	ug/L	89
78) bromodichloromethane	11.35	83	3550	1.48	ug/L	96
79) cis-1,3-dichloropropene	11.79	75	4481	1.91	ug/L	94
81) 4-methyl-2-pentanone	11.89	58	882	2.07	ug/L #	41
82) toluene	12.13	91	11792	2.14	ug/L	95
83) 3-methyl-1-butanol	11.93	70	1204	41.72	ug/L	91
84) trans-1,3-dichloropropene	12.36	75	3923	1.70	ug/L	92
85) ethyl methacrylate	12.33	69	2997	2.08	ug/L	91
86) 1,1,2-trichloroethane	12.57	83	1993	1.94	ug/L	98
87) 2-hexanone	12.74	58	856	2.33	ug/L #	68
89) tetrachloroethene	12.70	166	2780	1.72	ug/L	94
90) 1,3-dichloropropane	12.75	76	3646	1.85	ug/L	94
91) butyl acetate	12.79	56	1379	2.12	ug/L #	46
92) dibromochloromethane	13.01	129	2850	1.56	ug/L	94
93) 1,2-dibromoethane	13.16	107	2289	1.76	ug/L	92
94) 3,3-Dimethyl-1-Butanol	12.90	57	2555	25.21	ug/L #	70
96) chlorobenzene	13.59	112	7380	1.96	ug/L	90
97) 1,1,1,2-tetrachloroethane	13.65	131	2640	1.57	ug/L	89
98) ethylbenzene	13.63	91	12297	1.96	ug/L	96
99) m,p-xylene	13.73	106	9387	4.05	ug/L	84
100) o-xylene	14.15	91	9631	1.88	ug/L	98
101) styrene	14.17	104	7592	2.07	ug/L	92
102) bromoform	14.46	173	1925	1.50	ug/L	86
104) isopropylbenzene	14.48	105	11334	1.98	ug/L	99
107) bromobenzene	14.89	156	3284	1.80	ug/L	96
108) cyclohexanone	14.69	55	5467	36.16	ug/L	86
109) 1,1,2,2-tetrachloroethane	14.82	83	3316	2.16	ug/L	91
110) trans-1,4-dichloro-2-buten	14.87	53	700	1.69	ug/L #	59
111) 1,2,3-trichloropropane	14.90	110	720	1.77	ug/L	94
112) n-propylbenzene	14.88	91	13106	2.03	ug/L	99
113) 4-Ethyltoluene	14.98	105	10023	1.99	ug/L #	95
114) 2-chlorotoluene	15.04	126	2970	1.99	ug/L #	71

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : Y146736.D
Acq On : 24 Jun 2014 12:56 pm
Operator : prashans
Sample : IC6377-2
Misc : MS69208,VY6377,5.0,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 24 14:52:41 2014
Quant Method : C:\MSDCHEM\1\METHODS\MYS6377.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Jun 24 14:19:47 2014
Response via : Initial Calibration

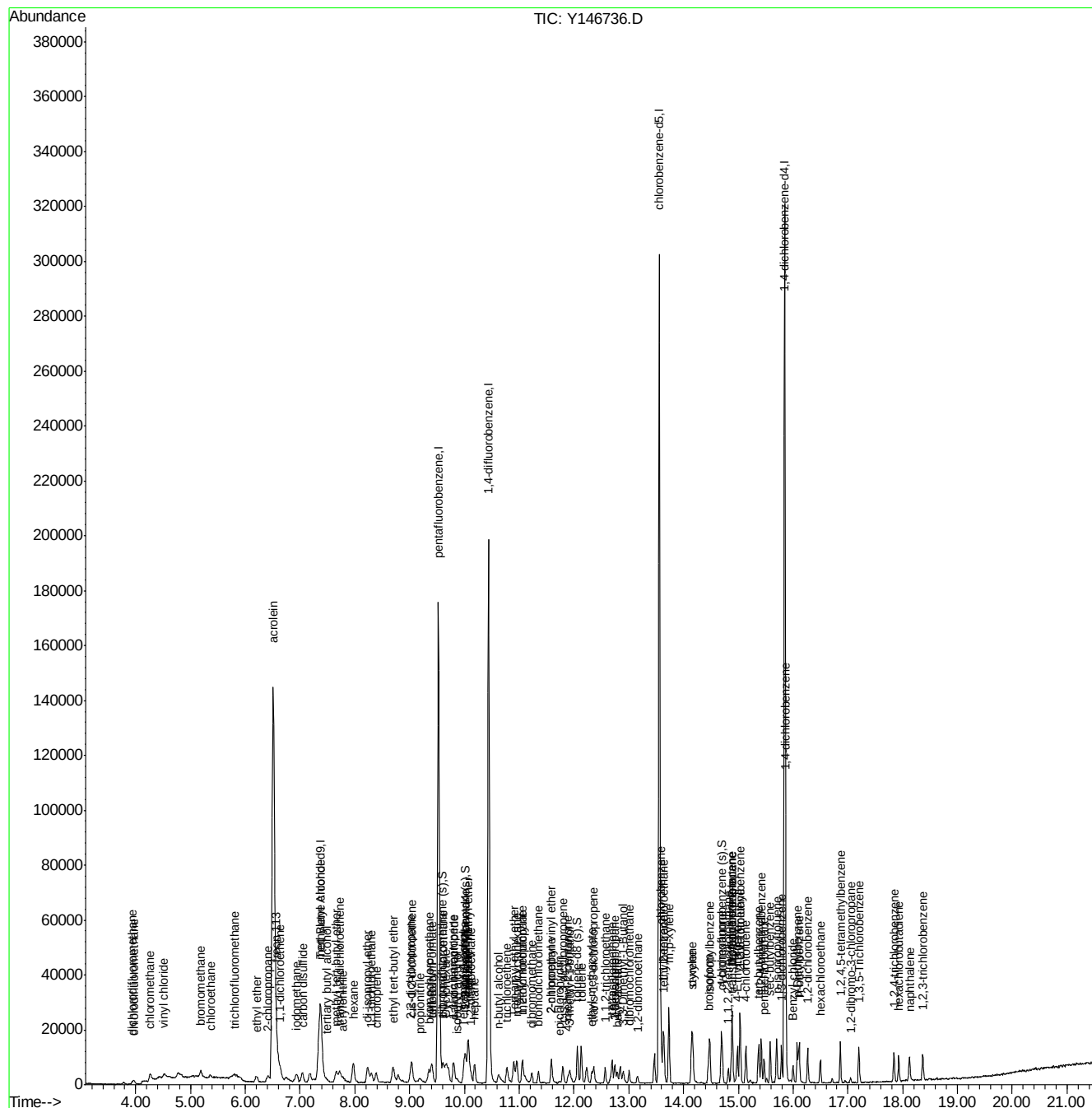
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
115) 4-chlorotoluene	15.14	91	8574	1.94	ug/L	95
116) 1,3,5-trimethylbenzene	15.03	105	9604	1.92	ug/L	89
117) tert-butylbenzene	15.37	119	7809	1.94	ug/L	89
118) pentachloroethane	15.47	167	1977	1.63	ug/L	97
119) 1,2,4-trimethylbenzene	15.42	105	9424	1.97	ug/L	87
120) sec-butylbenzene	15.58	105	11836	2.01	ug/L	97
121) 1,3-dichlorobenzene	15.79	146	6150	1.79	ug/L	97
122) p-isopropyltoluene	15.70	119	10276	2.06	ug/L	90
123) 1,4-dichlorobenzene	15.87	146	6443	1.90	ug/L	97
124) 1,2-dichlorobenzene	16.27	146	5806	1.82	ug/L	96
125) n-butylbenzene	16.11	92	5203	2.10	ug/L	95
126) p-Diethylbenzene	16.08	119	5629	2.05	ug/L #	75
127) 1,2-dibromo-3-chloropropan	17.06	157	558	1.75	ug/L #	78
128) 1,3,5-Trichlorobenzene	17.20	180	4933	1.87	ug/L	99
129) 1,2,4-trichlorobenzene	17.84	180	4122	1.84	ug/L	97
130) 1,2,4,5-tetramethylbenzene	16.86	119	8872	2.07	ug/L	98
131) hexachlorobutadiene	17.93	225	2424	1.70	ug/L	97
132) naphthalene	18.13	128	8278	2.16	ug/L	99
133) 1,2,3-trichlorobenzene	18.37	180	3865	1.96	ug/L	97
134) hexachloroethane	16.50	119	1992	1.70	ug/L	96
135) Benzyl chloride	16.00	91	5501	1.94	ug/L	97

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : Y146736.D
Acq On : 24 Jun 2014 12:56 pm
Operator : prashans
Sample : IC6377-2
Misc : MS69208,VY6377,5.0,,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 24 14:52:41 2014
Quant Method : C:\MSDCHEM\1\METHODS\MYS6377.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Jun 24 14:19:47 2014
Response via : Initial Calibration



MYS6377.M Thu Jun 26 16:02:16 2014 RPT1

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7.6.16

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : Y146737.D
 Acq On : 24 Jun 2014 1:25 pm
 Operator : prashans
 Sample : IC6377-5
 Misc : MS69208,VY6377,5.0,,,,1
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 25 11:08:56 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MYS6377.M
 Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Wed Jun 25 11:08:24 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.35	65	61905	500.00	ug/L	0.00
5) pentafluorobenzene	9.52	168	177420	50.00	ug/L	0.00
58) 1,4-difluorobenzene	10.44	114	215095	50.00	ug/L	0.00
88) chlorobenzene-d5	13.56	117	182964	50.00	ug/L	0.00
103) 1,4-dichlorobenzene-d4	15.85	152	94626	50.00	ug/L	0.00

System Monitoring Compounds

50) dibromofluoromethane (s)	9.60	113	7021	5.07	ug/L	0.00
Spiked Amount 50.000	Range 59 - 130		Recovery =	10.14%#		
51) 1,2-dichloroethane-d4 (s)	10.03	65	7604	5.19	ug/L	0.00
Spiked Amount 50.000	Range 65 - 123		Recovery =	10.38%#		
80) toluene-d8 (s)	12.06	98	25527	5.13	ug/L	0.00
Spiked Amount 50.000	Range 77 - 125		Recovery =	10.26%#		
105) 4-bromofluorobenzene (s)	14.70	95	9296	4.90	ug/L	0.00
Spiked Amount 50.000	Range 71 - 132		Recovery =	9.80%#		

Target Compounds

						Qvalue
2) 1,4-dioxane	11.18	88	1814	122.38	ug/L	# 95
4) tertiary butyl alcohol	7.47	59	4332	26.42	ug/L	84
11) chlorodifluoromethane	3.96	51	5484	4.76	ug/L	96
12) dichlorodifluoromethane	3.94	85	6847	5.08	ug/L	97
13) chloromethane	4.27	50	9409	4.95	ug/L	99
14) vinyl chloride	4.51	62	8716	5.13	ug/L	96
16) bromomethane	5.19	94	6572	4.99	ug/L	96
17) chloroethane	5.37	64	4017	5.13	ug/L	85
19) trichlorofluoromethane	5.81	101	9109	5.00	ug/L	92
20) ethyl ether	6.20	74	3764	5.10	ug/L	98
21) 2-chloropropane	6.40	63	2549	4.95	ug/L	74
22) acrolein	6.52	56	16519	58.74	ug/L	87
23) 1,1-dichloroethene	6.64	61	9461	5.04	ug/L	97
24) acetone	6.75	43	4839	6.44	ug/L	99
25) allyl chloride	7.18	76	3483	5.22	ug/L	77
26) acetonitrile	7.25	40	6391	60.12	ug/L	# 72
27) iodomethane	6.93	142	11987	5.05	ug/L	99
28) carbon disulfide	7.04	76	21937	4.90	ug/L	98
29) 1-chloropropane	7.38	42	16421	4.53	ug/L	# 84
30) methylene chloride	7.38	49	14960	4.63	ug/L	95
31) methyl acetate	7.20	74	778	4.04	ug/L	# 58
32) methyl tert butyl ether	7.66	73	20537	5.03	ug/L	98
33) trans-1,2-dichloroethene	7.72	61	9401	4.99	ug/L	98
34) di-isopropyl ether	8.24	45	22763	4.66	ug/L	97
35) ethyl tert-butyl ether	8.70	59	21679	4.75	ug/L	99
36) 2-butanone	9.04	72	899	4.76	ug/L	# 61
37) 1,1-dichloroethane	8.30	63	12272	5.01	ug/L	97
38) chloroprene	8.38	53	8517	4.90	ug/L	95
39) acrylonitrile	7.76	53	11614	25.77	ug/L	98
40) vinyl acetate	8.31	86	658	3.44	ug/L	# 15
41) ethyl acetate	9.02	45	862	4.27	ug/L	# 10
42) 2,2-dichloropropane	9.02	77	9356	4.89	ug/L	96
43) cis-1,2-dichloroethene	9.04	96	7715	4.87	ug/L	95

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : Y146737.D
 Acq On : 24 Jun 2014 1:25 pm
 Operator : prashans
 Sample : IC6377-5
 Misc : MS69208,VY6377,5.0,,,,1
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 25 11:08:56 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MYS6377.M
 Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Wed Jun 25 11:08:24 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) propionitrile	9.17	54	9211	51.07	ug/L	84
45) bromochloromethane	9.35	130	4904	4.98	ug/L	89
46) tetrahydrofuran	9.38	72	904	5.04	ug/L #	87
47) chloroform	9.40	83	12186	4.95	ug/L	99
48) tert-Butyl Formate	9.41	59	4414	4.78	ug/L	97
49) isobutyl alcohol	9.86	41	2966	55.61	ug/L #	91
52) freon 113	6.58	151	4534	5.05	ug/L	97
53) methacrylonitrile	9.33	67	2542	4.85	ug/L	94
54) 1,1,1-trichloroethane	9.62	97	9441	4.93	ug/L	97
55) Cyclohexane	9.67	84	9909	5.07	ug/L #	95
56) 2,2,4-trimethylpentane	10.01	57	25192	5.00	ug/L	91
57) tert-amyl methyl ether	10.07	73	21428	4.82	ug/L	97
59) epichlorohydrin	11.73	57	3310	25.07	ug/L	92
60) n-butyl alcohol	10.61	56	10380	249.15	ug/L	93
61) carbon tetrachloride	9.81	117	8508	4.95	ug/L	94
62) 1,1-dichloropropene	9.80	75	8577	4.91	ug/L	100
63) hexane	7.97	57	10003	5.61	ug/L	97
64) Tert Amyl Alcohol	9.97	73	2353	27.18	ug/L #	75
65) benzene	10.07	78	27602	4.85	ug/L	98
66) heptane	10.19	57	5502	5.21	ug/L	88
67) isopropyl acetate	9.99	61	2685	4.80	ug/L	94
68) 1,2-dichloroethane	10.11	62	8201	5.11	ug/L	98
69) trichloroethene	10.77	95	6945	5.03	ug/L	97
70) ethyl acrylate	10.79	55	6953	4.26	ug/L	98
71) 2-nitropropane	11.58	41	2363	5.24	ug/L #	71
72) 2-chloroethyl vinyl ether	11.58	63	14086	23.99	ug/L	98
73) methyl methacrylate	11.05	69	4550	5.01	ug/L	93
74) 1,2-dichloropropane	11.06	63	7301	4.98	ug/L	96
75) methylcyclohexane	10.96	83	11202	4.93	ug/L	97
76) Tert-amyl ethyl ether	10.90	59	16259	4.82	ug/L	98
77) dibromomethane	11.23	93	4304	5.06	ug/L	97
78) bromodichloromethane	11.35	83	9395	4.97	ug/L	99
79) cis-1,3-dichloropropene	11.79	75	11842	4.96	ug/L	97
81) 4-methyl-2-pentanone	11.89	58	2629	4.99	ug/L #	84
82) toluene	12.13	91	29617	4.84	ug/L	99
83) 3-methyl-1-butanol	11.92	70	3977	102.02	ug/L	97
84) trans-1,3-dichloropropene	12.36	75	10706	5.14	ug/L	98
85) ethyl methacrylate	12.32	69	8589	4.99	ug/L	93
86) 1,1,2-trichloroethane	12.57	83	5443	5.13	ug/L	97
87) 2-hexanone	12.74	58	3003	5.12	ug/L	98
89) tetrachloroethene	12.70	166	7946	5.09	ug/L	98
90) 1,3-dichloropropane	12.75	76	9797	5.05	ug/L	97
91) butyl acetate	12.79	56	4066	4.57	ug/L #	74
92) dibromochloromethane	13.00	129	7595	5.02	ug/L	95
93) 1,2-dibromoethane	13.15	107	6500	5.21	ug/L	95
94) 3,3-Dimethyl-1-Butanol	12.90	57	7482	51.25	ug/L #	98
96) chlorobenzene	13.59	112	19470	5.06	ug/L	96
97) 1,1,1,2-tetrachloroethane	13.65	131	7101	5.13	ug/L	97
98) ethylbenzene	13.63	91	31311	4.89	ug/L	96
99) m,p-xylene	13.73	106	24764	9.83	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : Y146737.D
 Acq On : 24 Jun 2014 1:25 pm
 Operator : prashans
 Sample : IC6377-5
 Misc : MS69208,VY6377,5.0,,,,1
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 25 11:08:56 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MYS6377.M
 Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Wed Jun 25 11:08:24 2014
 Response via : Initial Calibration

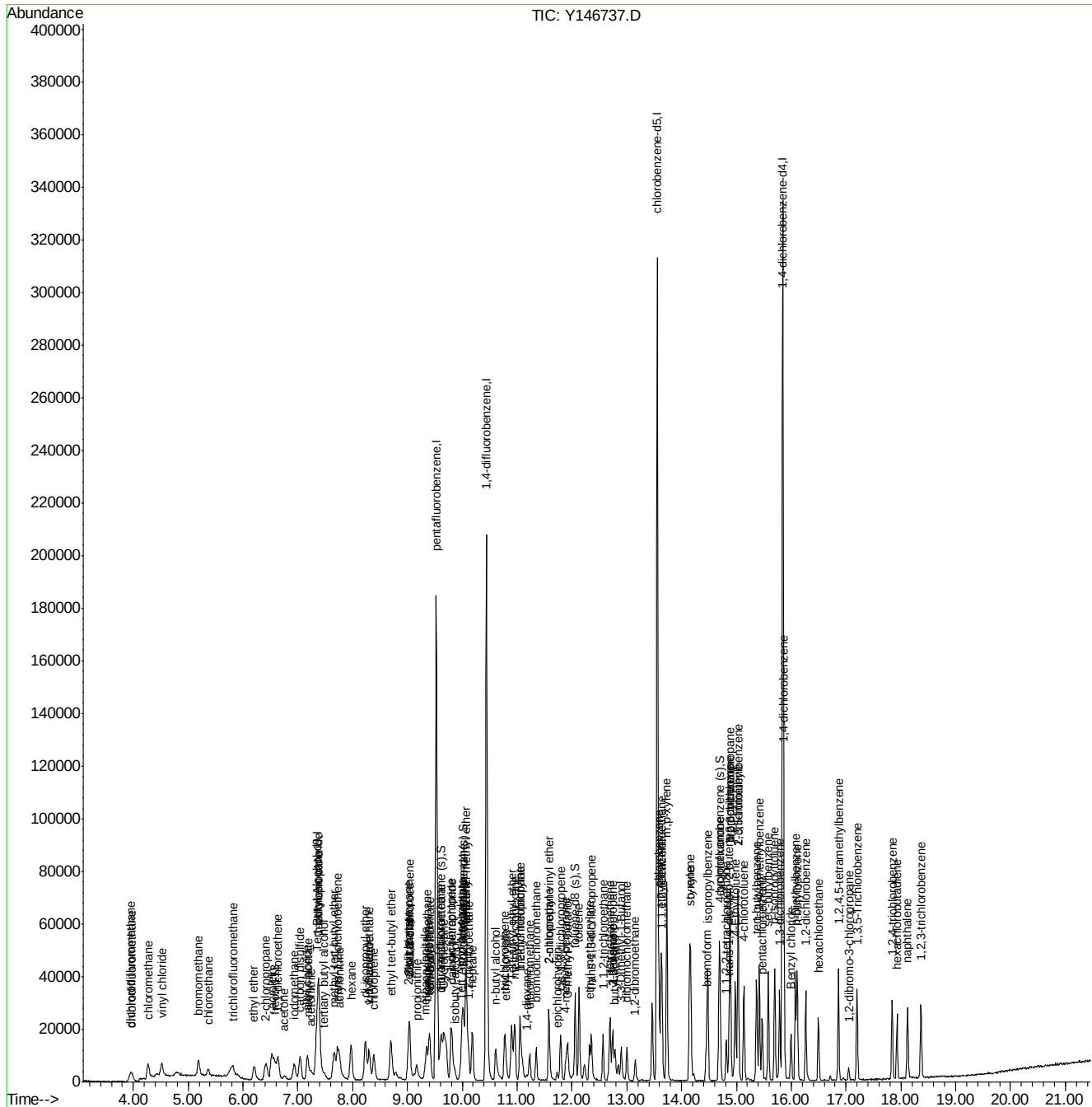
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
100) o-xylene	14.15	91	25812	5.05	ug/L	97
101) styrene	14.17	104	20225	5.00	ug/L	99
102) bromoform	14.45	173	5426	5.19	ug/L	95
104) isopropylbenzene	14.48	105	30534	4.91	ug/L	97
107) bromobenzene	14.89	156	8737	5.08	ug/L	94
108) cyclohexanone	14.69	55	16950	55.93	ug/L	100
109) 1,1,2,2-tetrachloroethane	14.82	83	9134	5.27	ug/L	98
110) trans-1,4-dichloro-2-buten	14.86	53	2196	5.30	ug/L	95
111) 1,2,3-trichloropropane	14.89	110	1965	5.21	ug/L	92
112) n-propylbenzene	14.88	91	34954	5.01	ug/L	99
113) 4-Ethyltoluene	14.98	105	27906	4.91	ug/L	98
114) 2-chlorotoluene	15.04	126	7735	5.09	ug/L	96
115) 4-chlorotoluene	15.14	91	22462	4.97	ug/L	99
116) 1,3,5-trimethylbenzene	15.03	105	25220	4.89	ug/L	100
117) tert-butylbenzene	15.37	119	20898	4.98	ug/L	98
118) pentachloroethane	15.47	167	5135	4.94	ug/L	95
119) 1,2,4-trimethylbenzene	15.42	105	25342	4.98	ug/L	98
120) sec-butylbenzene	15.58	105	32913	4.97	ug/L	95
121) 1,3-dichlorobenzene	15.79	146	16133	5.08	ug/L	99
122) p-isopropyltoluene	15.70	119	27477	5.02	ug/L	100
123) 1,4-dichlorobenzene	15.87	146	16345	4.96	ug/L	98
124) 1,2-dichlorobenzene	16.27	146	15527	5.09	ug/L	97
125) n-butylbenzene	16.11	92	14316	5.06	ug/L	98
126) p-Diethylbenzene	16.08	119	15608	4.88	ug/L #	78
127) 1,2-dibromo-3-chloropropan	17.05	157	1792	5.41	ug/L	97
128) 1,3,5-Trichlorobenzene	17.20	180	12950	4.98	ug/L	99
129) 1,2,4-trichlorobenzene	17.84	180	11060	5.08	ug/L	96
130) 1,2,4,5-tetramethylbenzene	16.86	119	23382	4.79	ug/L	99
131) hexachlorobutadiene	17.93	225	6532	4.98	ug/L	97
132) naphthalene	18.12	128	23022	5.19	ug/L	99
133) 1,2,3-trichlorobenzene	18.37	180	10205	5.04	ug/L	99
134) hexachloroethane	16.50	119	5439	5.06	ug/L	97
135) Benzyl chloride	16.00	91	14644	4.81	ug/L	99

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

(QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : Y146737.D
Acq On : 24 Jun 2014 1:25 pm
Operator : prashans
Sample : IC6377-5
Misc : MS69208,VY6377,5.0,,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 25 11:08:56 2014
Quant Method : C:\MSDCHEM\1\METHODS\MYS6377.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Wed Jun 25 11:08:24 2014
Response via : Initial Calibration



Page: 4

7.6.17 7

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : Y146738.D
 Acq On : 24 Jun 2014 1:54 pm
 Operator : prashans
 Sample : IC6377-10
 Misc : MS69208,VY6377,5.0,,,,1
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 25 11:10:28 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MYS6377.M
 Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Wed Jun 25 11:08:24 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.35	65	63341	500.00	ug/L	0.00
5) pentafluorobenzene	9.53	168	183361	50.00	ug/L	0.00
58) 1,4-difluorobenzene	10.44	114	220142	50.00	ug/L	0.00
88) chlorobenzene-d5	13.56	117	186912	50.00	ug/L	0.00
103) 1,4-dichlorobenzene-d4	15.85	152	97128	50.00	ug/L	0.00

System Monitoring Compounds

50) dibromofluoromethane (s)	9.60	113	14073	9.83	ug/L	0.00
Spiked Amount	50.000	Range	59 - 130	Recovery	=	19.66%#
51) 1,2-dichloroethane-d4 (s)	10.03	65	15168	10.03	ug/L	0.00
Spiked Amount	50.000	Range	65 - 123	Recovery	=	20.06%#
80) toluene-d8 (s)	12.06	98	52185	10.25	ug/L	0.00
Spiked Amount	50.000	Range	77 - 125	Recovery	=	20.50%#
105) 4-bromofluorobenzene (s)	14.70	95	19168	9.85	ug/L	0.00
Spiked Amount	50.000	Range	71 - 132	Recovery	=	19.70%#

Target Compounds

						Qvalue
2) 1,4-dioxane	11.18	88	3827	252.32	ug/L	# 97
4) tertiary butyl alcohol	7.47	59	8658	51.61	ug/L	91
11) chlorodifluoromethane	3.96	51	12487	10.48	ug/L	98
12) dichlorodifluoromethane	3.95	85	14549	10.45	ug/L	96
13) chloromethane	4.27	50	19489	9.93	ug/L	96
14) vinyl chloride	4.52	62	18054	10.28	ug/L	99
16) bromomethane	5.19	94	13224	9.71	ug/L	98
17) chloroethane	5.36	64	8348	10.32	ug/L	96
19) trichlorofluoromethane	5.79	101	18960	10.07	ug/L	98
20) ethyl ether	6.20	74	7775	10.18	ug/L	91
21) 2-chloropropane	6.42	63	5699	10.70	ug/L	92
22) acrolein	6.52	56	30353	104.43	ug/L	98
23) 1,1-dichloroethene	6.64	61	19748	10.18	ug/L	95
24) acetone	6.74	43	8632	11.12	ug/L	95
25) allyl chloride	7.17	76	7362	10.67	ug/L	94
26) acetonitrile	7.23	40	12011	109.33	ug/L	# 82
27) iodomethane	6.93	142	24512	10.00	ug/L	98
28) carbon disulfide	7.04	76	45431	9.82	ug/L	97
29) 1-chloropropane	7.38	42	28559	10.04	ug/L	# 88
30) methylene chloride	7.38	49	26988	10.41	ug/L	99
31) methyl acetate	7.19	74	1912	9.61	ug/L	# 70
32) methyl tert butyl ether	7.66	73	42419	10.06	ug/L	99
33) trans-1,2-dichloroethene	7.72	61	19736	10.15	ug/L	98
34) di-isopropyl ether	8.23	45	49086	9.73	ug/L	98
35) ethyl tert-butyl ether	8.70	59	47405	10.05	ug/L	98
36) 2-butanone	9.03	72	1932	9.90	ug/L	# 92
37) 1,1-dichloroethane	8.30	63	25348	10.01	ug/L	97
38) chloroprene	8.38	53	18697	10.40	ug/L	94
39) acrylonitrile	7.75	53	23931	51.37	ug/L	97
40) vinyl acetate	8.29	86	1645	8.31	ug/L	# 36
41) ethyl acetate	9.03	45	1998	9.58	ug/L	# 1
42) 2,2-dichloropropane	9.02	77	19420	9.82	ug/L	99
43) cis-1,2-dichloroethene	9.04	96	15908	9.73	ug/L	94

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : Y146738.D
 Acq On : 24 Jun 2014 1:54 pm
 Operator : prashans
 Sample : IC6377-10
 Misc : MS69208,VY6377,5.0,,,,1
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 25 11:10:28 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MYS6377.M
 Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Wed Jun 25 11:08:24 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) propionitrile	9.16	54	18605	99.82	ug/L	89
45) bromochloromethane	9.35	130	10213	10.03	ug/L	94
46) tetrahydrofuran	9.38	72	1917	10.35	ug/L	92
47) chloroform	9.40	83	24725	9.71	ug/L	99
48) tert-Butyl Formate	9.42	59	9364	9.81	ug/L	97
49) isobutyl alcohol	9.86	41	5106	97.30	ug/L #	99
52) freon 113	6.58	151	9885	10.66	ug/L	97
53) methacrylonitrile	9.31	67	5437	10.04	ug/L	92
54) 1,1,1-trichloroethane	9.62	97	20145	10.18	ug/L	96
55) Cyclohexane	9.67	84	20059	9.93	ug/L #	95
56) 2,2,4-trimethylpentane	10.01	57	55953	10.75	ug/L	89
57) tert-amyl methyl ether	10.07	73	45179	9.84	ug/L	93
59) epichlorohydrin	11.73	57	7043	52.13	ug/L	97
60) n-butyl alcohol	10.60	56	22238	521.55	ug/L	95
61) carbon tetrachloride	9.82	117	17893	10.18	ug/L	97
62) 1,1-dichloropropene	9.80	75	18523	10.35	ug/L	98
63) hexane	7.97	57	20130	11.04	ug/L	98
64) Tert Amyl Alcohol	9.97	73	4652	52.50	ug/L #	93
65) benzene	10.07	78	57128	9.81	ug/L	100
66) heptane	10.18	57	11650	10.79	ug/L	92
67) isopropyl acetate	9.99	61	5747	10.03	ug/L	99
68) 1,2-dichloroethane	10.11	62	17149	10.45	ug/L	99
69) trichloroethene	10.77	95	14470	10.25	ug/L	98
70) ethyl acrylate	10.79	55	16128	9.66	ug/L	97
71) 2-nitropropane	11.58	41	4853	10.52	ug/L #	78
72) 2-chloroethyl vinyl ether	11.57	63	30201	50.26	ug/L	98
73) methyl methacrylate	11.05	69	9596	10.33	ug/L	98
74) 1,2-dichloropropane	11.06	63	15192	10.12	ug/L	97
75) methylcyclohexane	10.96	83	24353	10.48	ug/L	99
76) Tert-amyl ethyl ether	10.90	59	34366	9.95	ug/L	98
77) dibromomethane	11.22	93	9149	10.51	ug/L	94
78) bromodichloromethane	11.34	83	19348	10.01	ug/L	99
79) cis-1,3-dichloropropene	11.79	75	24877	10.18	ug/L	96
81) 4-methyl-2-pentanone	11.88	58	5591	10.37	ug/L	95
82) toluene	12.13	91	60764	9.71	ug/L	99
83) 3-methyl-1-butanol	11.92	70	8128	203.73	ug/L	98
84) trans-1,3-dichloropropene	12.35	75	21984	10.31	ug/L	96
85) ethyl methacrylate	12.32	69	17745	10.07	ug/L	99
86) 1,1,2-trichloroethane	12.57	83	11028	10.16	ug/L	96
87) 2-hexanone	12.73	58	6150	10.24	ug/L	98
89) tetrachloroethene	12.69	166	16444	10.31	ug/L	99
90) 1,3-dichloropropane	12.75	76	20421	10.31	ug/L	99
91) butyl acetate	12.78	56	8836	9.72	ug/L #	84
92) dibromochloromethane	13.00	129	15933	10.30	ug/L	99
93) 1,2-dibromoethane	13.15	107	13319	10.46	ug/L	97
94) 3,3-Dimethyl-1-Butanol	12.90	57	15147	101.57	ug/L	99
96) chlorobenzene	13.59	112	39897	10.15	ug/L	98
97) 1,1,1,2-tetrachloroethane	13.65	131	14366	10.15	ug/L	100
98) ethylbenzene	13.62	91	65662	10.03	ug/L	99
99) m,p-xylene	13.73	106	51978	20.19	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : Y146738.D
 Acq On : 24 Jun 2014 1:54 pm
 Operator : prashans
 Sample : IC6377-10
 Misc : MS69208,VY6377,5.0,,,,1
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 25 11:10:28 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MYS6377.M
 Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Wed Jun 25 11:08:24 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
100) o-xylene	14.15	91	52327	10.01	ug/L	99
101) styrene	14.16	104	43021	10.42	ug/L	99
102) bromoform	14.45	173	10980	10.28	ug/L	97
104) isopropylbenzene	14.48	105	63558	9.95	ug/L	99
107) bromobenzene	14.89	156	18078	10.23	ug/L	99
108) cyclohexanone	14.69	55	33477	107.63	ug/L	98
109) 1,1,2,2-tetrachloroethane	14.82	83	18380	10.33	ug/L	98
110) trans-1,4-dichloro-2-buten	14.86	53	4350	10.23	ug/L	95
111) 1,2,3-trichloropropane	14.90	110	4073	10.52	ug/L	92
112) n-propylbenzene	14.88	91	72911	10.17	ug/L	99
113) 4-Ethyltoluene	14.98	105	61155	10.48	ug/L	99
114) 2-chlorotoluene	15.04	126	15923	10.21	ug/L	98
115) 4-chlorotoluene	15.14	91	47125	10.16	ug/L	99
116) 1,3,5-trimethylbenzene	15.03	105	52852	9.99	ug/L	99
117) tert-butylbenzene	15.37	119	43907	10.20	ug/L	99
118) pentachloroethane	15.47	167	11212	10.51	ug/L	96
119) 1,2,4-trimethylbenzene	15.42	105	51677	9.89	ug/L	98
120) sec-butylbenzene	15.58	105	68800	10.12	ug/L	99
121) 1,3-dichlorobenzene	15.79	146	33181	10.18	ug/L	97
122) p-isopropyltoluene	15.70	119	57204	10.18	ug/L	99
123) 1,4-dichlorobenzene	15.87	146	33720	9.96	ug/L	98
124) 1,2-dichlorobenzene	16.27	146	31451	10.04	ug/L	97
125) n-butylbenzene	16.11	92	29822	10.26	ug/L	94
126) p-Diethylbenzene	16.08	119	33968	10.35	ug/L #	80
127) 1,2-dibromo-3-chloropropan	17.05	157	3476	10.23	ug/L	98
128) 1,3,5-Trichlorobenzene	17.20	180	26998	10.12	ug/L	99
129) 1,2,4-trichlorobenzene	17.84	180	23219	10.39	ug/L	98
130) 1,2,4,5-tetramethylbenzene	16.86	119	50742	10.13	ug/L	100
131) hexachlorobutadiene	17.93	225	13648	10.14	ug/L	98
132) naphthalene	18.12	128	46298	10.17	ug/L	99
133) 1,2,3-trichlorobenzene	18.37	180	20867	10.05	ug/L	99
134) hexachloroethane	16.50	119	11150	10.10	ug/L	99
135) Benzyl chloride	15.99	91	32179	10.29	ug/L	99

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

7.6.18

7

Data Path : C:\MSDCHEM\1\DATA\
Data File : Y146738.D
Acq On : 24 Jun 2014 1:54 pm
Operator : prashans
Sample : IC6377-10
Misc : MS69208,VY6377,5.0,,,,,1
ALS Vial : 7 Sample Multiplier: 1

Page: 4



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : Y146739.D
 Acq On : 24 Jun 2014 2:22 pm
 Operator : prashans
 Sample : IC6377-20
 Misc : MS69208,VY6377,5.0,,,,1
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 24 15:10:07 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MYS6377.M
 Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Tue Jun 24 14:29:34 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.35	65	59638	500.00	ug/L	-0.01
5) pentafluorobenzene	9.52	168	166352	50.00	ug/L	-0.01
58) 1,4-difluorobenzene	10.44	114	203105	50.00	ug/L	0.00
88) chlorobenzene-d5	13.56	117	176645	50.00	ug/L	0.00
103) 1,4-dichlorobenzene-d4	15.85	152	93758	50.00	ug/L	0.00

System Monitoring Compounds

50) dibromofluoromethane (s)	9.60	113	66276	37.91	ug/L	0.00
Spiked Amount	50.000	Range	59 - 130	Recovery	=	75.82%
51) 1,2-dichloroethane-d4 (s)	10.02	65	69908	30.59	ug/L	-0.01
Spiked Amount	50.000	Range	65 - 123	Recovery	=	61.18%#
80) toluene-d8 (s)	12.06	98	243868	52.56	ug/L	0.00
Spiked Amount	50.000	Range	77 - 125	Recovery	=	105.12%
105) 4-bromofluorobenzene (s)	14.70	95	90240	48.23	ug/L	0.00
Spiked Amount	50.000	Range	71 - 132	Recovery	=	96.46%

Target Compounds

						Qvalue
2) 1,4-dioxane	11.18	88	6864	541.20	ug/L	# 86
4) tertiary butyl alcohol	7.47	59	15633	90.03	ug/L	92
11) chlorodifluoromethane	3.97	51	24874	17.73	ug/L	93
12) dichlorodifluoromethane	3.94	85	28285	14.81	ug/L	97
13) chloromethane	4.27	50	37392	20.52	ug/L	97
14) vinyl chloride	4.52	62	34433	21.97	ug/L	96
16) bromomethane	5.19	94	24568	17.81	ug/L	95
17) chloroethane	5.37	64	15974	22.19	ug/L	93
19) trichlorofluoromethane	5.81	101	36484	13.75	ug/L	95
20) ethyl ether	6.20	74	14304	19.13	ug/L	90
21) 2-chloropropane	6.42	63	10753	21.49	ug/L	98
22) acrolein	6.52	56	50225	206.36	ug/L	99
23) 1,1-dichloroethene	6.64	61	36832	17.13	ug/L	92
24) acetone	6.74	43	15629	35.65	ug/L	85
25) allyl chloride	7.18	76	11975	19.61	ug/L	# 77
26) acetonitrile	7.22	40	18097	218.49	ug/L	87
27) iodomethane	6.93	142	47703	17.07	ug/L	86
28) carbon disulfide	7.04	76	86227	20.52	ug/L	91
29) 1-chloropropane	7.38	42	49116	17.73	ug/L	94
30) methylene chloride	7.38	49	44106	19.80	ug/L	92
31) methyl acetate	7.18	74	3617	20.44	ug/L	94
32) methyl tert butyl ether	7.66	73	78282	15.51	ug/L	91
33) trans-1,2-dichloroethene	7.72	61	37243	17.59	ug/L	97
34) di-isopropyl ether	8.23	45	94515	21.39	ug/L	92
35) ethyl tert-butyl ether	8.70	59	90376	18.44	ug/L	98
36) 2-butanone	9.02	72	3715	25.77	ug/L	# 79
37) 1,1-dichloroethane	8.30	63	47786	16.69	ug/L	98
38) chloroprene	8.38	53	35508	17.60	ug/L	88
39) acrylonitrile	7.75	53	44436	119.94	ug/L	95
40) vinyl acetate	8.29	86	3785	19.35	ug/L	82
41) ethyl acetate	9.01	45	4051	25.43	ug/L	49
42) 2,2-dichloropropane	9.02	77	37525	13.74	ug/L	98
43) cis-1,2-dichloroethene	9.03	96	30505	17.33	ug/L	91

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : Y146739.D
 Acq On : 24 Jun 2014 2:22 pm
 Operator : prashans
 Sample : IC6377-20
 Misc : MS69208,VY6377,5.0,,,,1
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 24 15:10:07 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MYS6377.M
 Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Tue Jun 24 14:29:34 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) propionitrile	9.16	54	34671	218.51	ug/L	94
45) bromochloromethane	9.35	130	18921	16.43	ug/L	97
46) tetrahydrofuran	9.38	72	3203	19.29	ug/L #	74
47) chloroform	9.40	83	46886	14.95	ug/L	96
48) tert-Butyl Formate	9.41	59	18126	22.92	ug/L	90
49) isobutyl alcohol	9.85	41	8462	186.38	ug/L #	72
52) freon 113	6.58	151	18843	19.06	ug/L	89
53) methacrylonitrile	9.31	67	9683	20.46	ug/L	97
54) 1,1,1-trichloroethane	9.63	97	38323	13.36	ug/L	99
55) Cyclohexane	9.67	84	38640	21.05	ug/L #	97
56) 2,2,4-trimethylpentane	10.02	57	103533	24.50	ug/L	96
57) tert-amyl methyl ether	10.07	73	86305	17.45	ug/L	94
59) epichlorohydrin	11.72	57	12558	121.85	ug/L	94
60) n-butyl alcohol	10.60	56	39464	1381.68	ug/L	99
61) carbon tetrachloride	9.81	117	33976	15.77	ug/L	97
62) 1,1-dichloropropene	9.79	75	34976	21.09	ug/L	97
63) hexane	7.97	57	37194	33.24	ug/L	96
64) Tert Amyl Alcohol	9.96	73	8395	122.07	ug/L #	76
65) benzene	10.07	78	109878	21.11	ug/L	99
66) heptane	10.18	57	22176	31.16	ug/L	95
67) isopropyl acetate	9.99	61	11345	25.15	ug/L #	91
68) 1,2-dichloroethane	10.11	62	31912	12.87	ug/L	96
69) trichloroethene	10.77	95	27196	18.96	ug/L	96
70) ethyl acrylate	10.79	55	32415	25.54	ug/L	95
71) 2-nitropropane	11.58	41	8236	19.14	ug/L #	1
72) 2-chloroethyl vinyl ether	11.57	63	57921	471.28	ug/L	94
73) methyl methacrylate	11.05	69	17368	23.82	ug/L #	76
74) 1,2-dichloropropane	11.06	63	28610	22.99	ug/L	79
75) methylcyclohexane	10.96	83	46844	27.10	ug/L	95
76) Tert-amyl ethyl ether	10.90	59	69206	23.27	ug/L	99
77) dibromomethane	11.22	93	16577	17.31	ug/L	95
78) bromodichloromethane	11.34	83	37034	15.75	ug/L	97
79) cis-1,3-dichloropropene	11.79	75	47218	20.52	ug/L	88
81) 4-methyl-2-pentanone	11.88	58	10043	24.06	ug/L	99
82) toluene	12.13	91	115825	20.55	ug/L	99
83) 3-methyl-1-butanol	11.91	70	14919	526.49	ug/L	95
84) trans-1,3-dichloropropene	12.35	75	42042	18.51	ug/L	92
85) ethyl methacrylate	12.32	69	33609	23.80	ug/L	95
86) 1,1,2-trichloroethane	12.56	83	20841	20.65	ug/L	99
87) 2-hexanone	12.73	58	12040	33.34	ug/L #	79
89) tetrachloroethene	12.69	166	31208	19.75	ug/L	98
90) 1,3-dichloropropane	12.75	76	38574	20.12	ug/L	97
91) butyl acetate	12.78	56	18442	29.12	ug/L #	83
92) dibromochloromethane	13.01	129	29947	16.83	ug/L	95
93) 1,2-dibromoethane	13.15	107	24617	19.37	ug/L	98
94) 3,3-Dimethyl-1-Butanol	12.90	57	27555	278.73	ug/L	94
96) chlorobenzene	13.59	112	76177	20.15	ug/L	95
97) 1,1,1,2-tetrachloroethane	13.65	131	27893	17.03	ug/L	92
98) ethylbenzene	13.62	91	124660	20.33	ug/L	97
99) m,p-xylene	13.73	106	97955	43.34	ug/L	89

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : Y146739.D
 Acq On : 24 Jun 2014 2:22 pm
 Operator : prashans
 Sample : IC6377-20
 Misc : MS69208,VY6377,5.0,,,,1
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 24 15:10:07 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MYS6377.M
 Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Tue Jun 24 14:29:34 2014
 Response via : Initial Calibration

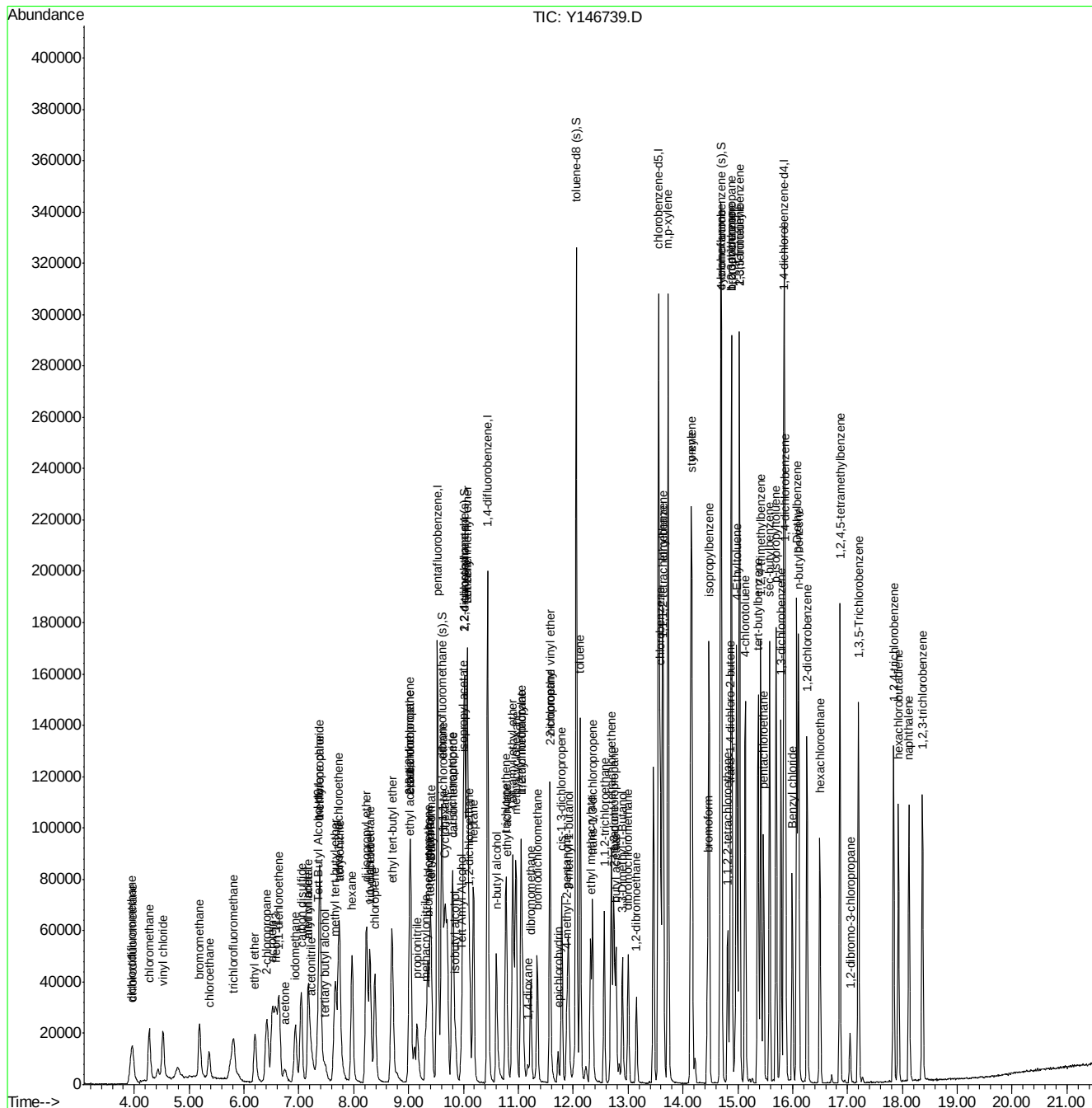
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
100) o-xylene	14.15	91	100037	20.04	ug/L	96
101) styrene	14.16	104	83252	23.29	ug/L	94
102) bromoform	14.45	173	20815	16.63	ug/L	99
104) isopropylbenzene	14.48	105	121056	20.93	ug/L	96
107) bromobenzene	14.89	156	34671	18.77	ug/L	99
108) cyclohexanone	14.69	55	60404	394.69	ug/L	93
109) 1,1,2,2-tetrachloroethane	14.82	83	33607	21.64	ug/L	96
110) trans-1,4-dichloro-2-buten	14.86	53	8347	19.89	ug/L #	69
111) 1,2,3-trichloropropane	14.89	110	7139	17.32	ug/L	78
112) n-propylbenzene	14.88	91	140624	21.56	ug/L	99
113) 4-Ethyltoluene	14.98	105	123453	24.18	ug/L #	96
114) 2-chlorotoluene	15.04	126	31205	20.67	ug/L	92
115) 4-chlorotoluene	15.14	91	90631	20.25	ug/L	97
116) 1,3,5-trimethylbenzene	15.03	105	101445	20.03	ug/L	94
117) tert-butylbenzene	15.37	119	85449	20.97	ug/L	92
118) pentachloroethane	15.47	167	21253	17.28	ug/L	98
119) 1,2,4-trimethylbenzene	15.42	105	100917	20.88	ug/L	97
120) sec-butylbenzene	15.58	105	133569	22.42	ug/L	97
121) 1,3-dichlorobenzene	15.79	146	65690	18.93	ug/L	99
122) p-isopropyltoluene	15.70	119	112016	22.16	ug/L	97
123) 1,4-dichlorobenzene	15.87	146	66120	19.31	ug/L	97
124) 1,2-dichlorobenzene	16.26	146	61273	18.96	ug/L	98
125) n-butylbenzene	16.11	92	59091	23.51	ug/L	100
126) p-Diethylbenzene	16.08	119	70445	25.35	ug/L #	81
127) 1,2-dibromo-3-chloropropan	17.05	157	6477	20.05	ug/L	85
128) 1,3,5-Trichlorobenzene	17.20	180	53601	20.06	ug/L	100
129) 1,2,4-trichlorobenzene	17.84	180	45657	20.10	ug/L	99
130) 1,2,4,5-tetramethylbenzene	16.86	119	105863	24.36	ug/L	96
131) hexachlorobutadiene	17.93	225	27038	17.03	ug/L	95
132) naphthalene	18.12	128	90413	23.29	ug/L	99
133) 1,2,3-trichlorobenzene	18.37	180	41613	20.83	ug/L	97
134) hexachloroethane	16.50	119	21243	17.92	ug/L	99
135) Benzyl chloride	15.99	91	62265	21.68	ug/L	97

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

Quantitation Report (QT Reviewed)

```
Data Path   : C:\MSDCHEM\1\DATA\  
Data File  : Y146739.D  
Acq On     : 24 Jun 2014    2:22 pm  
Operator   : prashans  
Sample     : IC6377-20  
Misc       : MS69208,VY6377,5.0,,,,,1  
ALS Vial   : 8    Sample Multiplier: 1
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Quant Time: Jun 24 15:10:07 2014
Quant Method : C:\MSDCHEM\1\METHODS\MYS6377.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Jun 24 14:29:34 2014
Response via : Initial Calibration



7.6.19



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : Y146740.D
 Acq On : 24 Jun 2014 2:50 pm
 Operator : prashans
 Sample : ICC6377-50
 Misc : MS69208,VY6377,5.0,,,,1
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 24 15:14:13 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MYS6377.M
 Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Tue Jun 24 14:29:34 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.36	65	63501	500.00	ug/L	0.00
5) pentafluorobenzene	9.52	168	181502	50.00	ug/L	-0.01
58) 1,4-difluorobenzene	10.44	114	217710	50.00	ug/L	0.00
88) chlorobenzene-d5	13.56	117	189139	50.00	ug/L	0.00
103) 1,4-dichlorobenzene-d4	15.85	152	97949	50.00	ug/L	0.00

System Monitoring Compounds

50) dibromofluoromethane (s)	9.60	113	63236	33.16	ug/L	0.00
Spiked Amount	50.000	Range	59 - 130	Recovery	=	66.32%
51) 1,2-dichloroethane-d4 (s)	10.02	65	71350	28.61	ug/L	-0.01
Spiked Amount	50.000	Range	65 - 123	Recovery	=	57.22%#
80) toluene-d8 (s)	12.06	98	231001	46.44	ug/L	0.00
Spiked Amount	50.000	Range	77 - 125	Recovery	=	92.88%
105) 4-bromofluorobenzene (s)	14.70	95	87361	44.69	ug/L	0.00
Spiked Amount	50.000	Range	71 - 132	Recovery	=	89.38%

Target Compounds

						Qvalue
2) 1,4-dioxane	11.17	88	20431	1512.92	ug/L	# 86
4) tertiary butyl alcohol	7.47	59	43430	234.90	ug/L	93
11) chlorodifluoromethane	3.97	51	56393	36.84	ug/L	92
12) dichlorodifluoromethane	3.94	85	64506	30.97	ug/L	97
13) chloromethane	4.28	50	91475	46.02	ug/L	97
14) vinyl chloride	4.53	62	82470	48.22	ug/L	98
16) bromomethane	5.19	94	60027	39.88	ug/L	100
17) chloroethane	5.36	64	39232	49.94	ug/L	96
19) trichlorofluoromethane	5.80	101	83760	28.94	ug/L	99
20) ethyl ether	6.20	74	36673	44.96	ug/L	90
21) 2-chloropropane	6.41	63	25308	46.36	ug/L	96
22) acrolein	6.52	56	133232	501.73	ug/L	99
23) 1,1-dichloroethene	6.64	61	88465	37.72	ug/L	94
24) acetone	6.74	43	35540	74.31	ug/L	88
25) allyl chloride	7.17	76	33012	49.54	ug/L	# 80
26) acetonitrile	7.22	40	49255	545.02	ug/L	93
27) iodomethane	6.93	142	115469	37.86	ug/L	86
28) carbon disulfide	7.04	76	204740	44.67	ug/L	92
29) 1-chloropropane	7.39	42	107088	35.43	ug/L	# 92
30) methylene chloride	7.38	49	101698	41.85	ug/L	93
31) methyl acetate	7.17	74	10134	52.48	ug/L	92
32) methyl tert butyl ether	7.67	73	198901	36.13	ug/L	91
33) trans-1,2-dichloroethene	7.72	61	89616	38.80	ug/L	98
34) di-isopropyl ether	8.23	45	236854	49.14	ug/L	92
35) ethyl tert-butyl ether	8.70	59	230268	43.06	ug/L	98
36) 2-butanone	9.02	72	9785	62.21	ug/L	# 79
37) 1,1-dichloroethane	8.30	63	115775	37.07	ug/L	97
38) chloroprene	8.38	53	84746	38.49	ug/L	88
39) acrylonitrile	7.74	53	116887	289.17	ug/L	92
40) vinyl acetate	8.28	86	10730	50.27	ug/L	48
41) ethyl acetate	9.01	45	10429	60.00	ug/L	# 34
42) 2,2-dichloropropane	9.02	77	86352	28.97	ug/L	95
43) cis-1,2-dichloroethene	9.03	96	73293	38.17	ug/L	94

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : Y146740.D
 Acq On : 24 Jun 2014 2:50 pm
 Operator : prashans
 Sample : ICC6377-50
 Misc : MS69208,VY6377,5.0,,,,1
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 24 15:14:13 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MYS6377.M
 Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Tue Jun 24 14:29:34 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) propionitrile	9.15	54	93075	537.63	ug/L	97
45) bromochloromethane	9.35	130	47901	38.12	ug/L	96
46) tetrahydrofuran	9.37	72	8870	48.96	ug/L	86
47) chloroform	9.40	83	114272	33.40	ug/L	96
48) tert-Butyl Formate	9.41	59	47475	55.03	ug/L	88
49) isobutyl alcohol	9.85	41	24047	485.43	ug/L #	77
52) freon 113	6.58	151	43296	40.13	ug/L	84
53) methacrylonitrile	9.31	67	25822	50.02	ug/L	97
54) 1,1,1-trichloroethane	9.62	97	89600	28.63	ug/L	97
55) Cyclohexane	9.67	84	88521	44.19	ug/L #	95
56) 2,2,4-trimethylpentane	10.02	57	207607	45.02	ug/L	97
57) tert-amyl methyl ether	10.07	73	220779	40.91	ug/L	95
59) epichlorohydrin	11.72	57	34032	308.07	ug/L	97
60) n-butyl alcohol	10.60	56	113407	3704.14	ug/L	98
61) carbon tetrachloride	9.81	117	80983	35.06	ug/L	97
62) 1,1-dichloropropene	9.80	75	81682	45.96	ug/L	97
63) hexane	7.97	57	74895	62.44	ug/L	95
64) Tert Amyl Alcohol	9.96	73	21698	294.34	ug/L #	90
65) benzene	10.06	78	263111	47.17	ug/L	99
66) heptane	10.18	57	45047	59.06	ug/L	94
67) isopropyl acetate	9.98	61	29037	60.05	ug/L #	93
68) 1,2-dichloroethane	10.11	62	81210	30.56	ug/L	98
69) trichloroethene	10.77	95	65656	42.70	ug/L	96
70) ethyl acrylate	10.78	55	84042	61.77	ug/L	96
71) 2-nitropropane	11.58	41	22428	48.62	ug/L #	1
72) 2-chloroethyl vinyl ether	11.57	63	152663	1158.83	ug/L	94
73) methyl methacrylate	11.05	69	45856	58.67	ug/L #	71
74) 1,2-dichloropropane	11.05	63	69415	52.04	ug/L	76
75) methylcyclohexane	10.96	83	105230	56.80	ug/L	95
76) Tert-amyl ethyl ether	10.90	59	167940	52.68	ug/L	98
77) dibromomethane	11.22	93	42440	41.34	ug/L	96
78) bromodichloromethane	11.35	83	92194	36.58	ug/L	99
79) cis-1,3-dichloropropene	11.79	75	116599	47.27	ug/L	89
81) 4-methyl-2-pentanone	11.88	58	26828	59.96	ug/L	96
82) toluene	12.13	91	276013	45.69	ug/L	98
83) 3-methyl-1-butanol	11.91	70	41233	1357.49	ug/L	96
84) trans-1,3-dichloropropene	12.35	75	106048	43.57	ug/L	94
85) ethyl methacrylate	12.32	69	87149	57.58	ug/L	95
86) 1,1,2-trichloroethane	12.57	83	53072	49.05	ug/L	99
87) 2-hexanone	12.72	58	31177	80.55	ug/L #	77
89) tetrachloroethene	12.69	166	77517	45.81	ug/L	100
90) 1,3-dichloropropane	12.75	76	97424	47.46	ug/L	97
91) butyl acetate	12.78	56	46807	69.02	ug/L	88
92) dibromochloromethane	13.00	129	76656	40.22	ug/L	96
93) 1,2-dibromoethane	13.15	107	63404	46.60	ug/L	99
94) 3,3-Dimethyl-1-Butanol	12.89	57	76455	722.30	ug/L	93
96) chlorobenzene	13.59	112	185180	45.75	ug/L	95
97) 1,1,1,2-tetrachloroethane	13.65	131	69494	39.63	ug/L	94
98) ethylbenzene	13.62	91	300299	45.73	ug/L	96
99) m,p-xylene	13.73	106	235635	97.37	ug/L	88

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : Y146740.D
 Acq On : 24 Jun 2014 2:50 pm
 Operator : prashans
 Sample : ICC6377-50
 Misc : MS69208,VY6377,5.0,,,,1
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 24 15:14:13 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MYS6377.M
 Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Tue Jun 24 14:29:34 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
100) o-xylene	14.15	91	244656	45.77	ug/L	96
101) styrene	14.16	104	206805	54.03	ug/L	93
102) bromoform	14.45	173	53799	40.15	ug/L	98
104) isopropylbenzene	14.48	105	288439	47.73	ug/L	97
107) bromobenzene	14.89	156	86078	44.61	ug/L	99
108) cyclohexanone	14.69	55	157946	987.90	ug/L	92
109) 1,1,2,2-tetrachloroethane	14.82	83	86195	53.13	ug/L	98
110) trans-1,4-dichloro-2-buten	14.86	53	21267	48.50	ug/L #	64
111) 1,2,3-trichloropropane	14.89	110	18848	43.77	ug/L	80
112) n-propylbenzene	14.88	91	336966	49.46	ug/L	99
113) 4-Ethyltoluene	14.98	105	289209	54.23	ug/L #	97
114) 2-chlorotoluene	15.04	126	73462	46.58	ug/L	90
115) 4-chlorotoluene	15.14	91	216755	46.37	ug/L	96
116) 1,3,5-trimethylbenzene	15.03	105	242267	45.78	ug/L	94
117) tert-butylbenzene	15.37	119	200990	47.22	ug/L	90
118) pentachloroethane	15.47	167	49829	38.78	ug/L	96
119) 1,2,4-trimethylbenzene	15.42	105	243680	48.25	ug/L	97
120) sec-butylbenzene	15.58	105	312291	50.19	ug/L	96
121) 1,3-dichlorobenzene	15.78	146	158598	43.76	ug/L	100
122) p-isopropyltoluene	15.70	119	265645	50.30	ug/L	96
123) 1,4-dichlorobenzene	15.87	146	160693	44.92	ug/L	98
124) 1,2-dichlorobenzene	16.27	146	151199	44.79	ug/L	98
125) n-butylbenzene	16.11	92	138116	52.60	ug/L	97
126) p-Diethylbenzene	16.08	119	162412	55.94	ug/L #	81
127) 1,2-dibromo-3-chloropropan	17.05	157	17155	50.84	ug/L	93
128) 1,3,5-Trichlorobenzene	17.20	180	127802	45.79	ug/L	99
129) 1,2,4-trichlorobenzene	17.84	180	113666	47.89	ug/L	98
130) 1,2,4,5-tetramethylbenzene	16.86	119	252508	55.63	ug/L	96
131) hexachlorobutadiene	17.93	225	63188	38.10	ug/L	98
132) naphthalene	18.12	128	234040	57.70	ug/L	99
133) 1,2,3-trichlorobenzene	18.37	180	104293	49.96	ug/L	96
134) hexachloroethane	16.50	119	52952	42.76	ug/L	98
135) Benzyl chloride	15.99	91	158084	52.69	ug/L	96

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

7.6.20

7

Data Path : C:\MSDCHEM\1\DATA\
Data File : Y146740.D
Acq On : 24 Jun 2014 2:50 pm
Operator : prashans
Sample : ICC6377-50
Misc : MS69208,VY6377,5.0,,,,,1
ALS Vial : 9 Sample Multiplier: 1

[illegible]

Page: 4

7.6.20

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : Y146741.D
 Acq On : 24 Jun 2014 3:20 pm
 Operator : prashans
 Sample : IC6377-100
 Misc : MS69208,VY6377,5.0,,,,1
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 25 11:22:52 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MYS6377.M
 Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Tue Jun 24 15:27:34 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.36	65	67146	500.00	ug/L	0.00
5) pentafluorobenzene	9.52	168	180076	50.00	ug/L	0.00
58) 1,4-difluorobenzene	10.44	114	219394	50.00	ug/L	0.00
88) chlorobenzene-d5	13.56	117	188166	50.00	ug/L	0.00
103) 1,4-dichlorobenzene-d4	15.85	152	98986	50.00	ug/L	0.00

System Monitoring Compounds

50) dibromofluoromethane (s)	9.60	113	132329	91.95	ug/L	0.00
Spiked Amount	50.000	Range	59 - 130	Recovery	=	183.90%#
51) 1,2-dichloroethane-d4 (s)	10.02	65	149367	97.25	ug/L	0.00
Spiked Amount	50.000	Range	65 - 123	Recovery	=	194.50%#
80) toluene-d8 (s)	12.06	98	474639	86.17	ug/L	0.00
Spiked Amount	50.000	Range	77 - 125	Recovery	=	172.34%#
105) 4-bromofluorobenzene (s)	14.70	95	179891	87.93	ug/L	0.00
Spiked Amount	50.000	Range	71 - 132	Recovery	=	175.86%#

Target Compounds

						Qvalue
2) 1,4-dioxane	11.17	88	39688	2453.38	ug/L	# 98
4) tertiary butyl alcohol	7.47	59	88362	493.70	ug/L	97
11) chlorodifluoromethane	3.97	51	111579	94.46	ug/L	97
12) dichlorodifluoromethane	3.94	85	134982	97.30	ug/L	97
13) chloromethane	4.28	50	182215	92.64	ug/L	99
14) vinyl chloride	4.53	62	165144	94.20	ug/L	100
16) bromomethane	5.18	94	116661	85.40	ug/L	100
17) chloroethane	5.36	64	77179	95.45	ug/L	96
19) trichlorofluoromethane	5.81	101	171367	90.12	ug/L	96
20) ethyl ether	6.20	74	78779	106.93	ug/L	97
21) 2-chloropropane	6.42	63	51248	96.85	ug/L	99
23) 1,1-dichloroethene	6.64	61	177575	91.42	ug/L	99
24) acetone	6.74	43	65443	66.97	ug/L	94
25) allyl chloride	7.17	76	66345	97.09	ug/L	95
26) acetonitrile	7.21	40	103017	949.50	ug/L	92
27) iodomethane	6.93	142	235667	97.23	ug/L	99
28) carbon disulfide	7.04	76	409842	87.66	ug/L	100
29) 1-chloropropane	7.38	42	213614	78.24	ug/L	100
30) methylene chloride	7.38	49	202120	80.11	ug/L	99
31) methyl acetate	7.17	74	21243	114.43	ug/L	96
32) methyl tert butyl ether	7.66	73	419394	101.33	ug/L	99
33) trans-1,2-dichloroethene	7.72	61	183316	94.89	ug/L	99
34) di-isopropyl ether	8.23	45	481948	96.70	ug/L	99
35) ethyl tert-butyl ether	8.70	59	468117	101.34	ug/L	100
36) 2-butanone	9.02	72	20157	105.06	ug/L	# 99
37) 1,1-dichloroethane	8.29	63	237417	94.31	ug/L	97
38) chloroprene	8.38	53	170970	96.10	ug/L	99
39) acrylonitrile	7.74	53	246747	546.44	ug/L	99
40) vinyl acetate	8.28	86	22520	126.36	ug/L	88
41) ethyl acetate	9.01	45	21690	108.80	ug/L	58
42) 2,2-dichloropropane	9.02	77	172591	85.94	ug/L	98
43) cis-1,2-dichloroethene	9.03	96	151333	92.91	ug/L	96
44) propionitrile	9.15	54	195105	1082.28	ug/L	95

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : Y146741.D
 Acq On : 24 Jun 2014 3:20 pm
 Operator : prashans
 Sample : IC6377-100
 Misc : MS69208,VY6377,5.0,,,,1
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 25 11:22:52 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MYS6377.M
 Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Tue Jun 24 15:27:34 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) bromochloromethane	9.35	130	101315	101.76	ug/L	98
46) tetrahydrofuran	9.37	72	18670	103.56	ug/L	100
47) chloroform	9.40	83	235982	92.76	ug/L	99
48) tert-Butyl Formate	9.41	59	97661	105.67	ug/L	99
49) isobutyl alcohol	9.85	41	50334	934.97	ug/L #	99
52) freon 113	6.58	151	89530	97.35	ug/L	98
53) methacrylonitrile	9.31	67	55850	107.07	ug/L	99
54) 1,1,1-trichloroethane	9.62	97	181860	91.91	ug/L	98
55) Cyclohexane	9.67	84	177993	87.22	ug/L #	99
56) 2,2,4-trimethylpentane	10.02	57	493467	95.53	ug/L	97
57) tert-amyl methyl ether	10.07	73	454177	100.82	ug/L	99
59) epichlorohydrin	11.72	57	69807	522.66	ug/L	96
60) n-butyl alcohol	10.59	56	233969	5617.46	ug/L	99
61) carbon tetrachloride	9.81	117	162601	90.83	ug/L	99
62) 1,1-dichloropropene	9.80	75	166218	91.49	ug/L	98
63) hexane	7.97	57	167705	82.14	ug/L	99
64) Tert Amyl Alcohol	9.96	73	43537	483.89	ug/L #	98
65) benzene	10.06	78	540951	91.75	ug/L	99
66) heptane	10.18	57	102005	92.54	ug/L	99
67) isopropyl acetate	9.98	61	59350	104.23	ug/L	99
68) 1,2-dichloroethane	10.11	62	170234	105.04	ug/L	98
69) trichloroethene	10.77	95	133183	93.32	ug/L	100
70) ethyl acrylate	10.78	55	177064	109.00	ug/L	100
71) 2-nitropropane	11.58	41	43188	91.07	ug/L	94
72) 2-chloroethyl vinyl ether	11.57	63	315028	534.85	ug/L	99
73) methyl methacrylate	11.04	69	96887	105.96	ug/L	92
74) 1,2-dichloropropane	11.05	63	145437	96.46	ug/L	100
75) methylcyclohexane	10.96	83	218990	93.06	ug/L	99
76) Tert-amyl ethyl ether	10.90	59	349723	102.09	ug/L	100
77) dibromomethane	11.22	93	88969	103.22	ug/L	99
78) bromodichloromethane	11.34	83	194816	101.42	ug/L	99
79) cis-1,3-dichloropropene	11.79	75	243138	99.83	ug/L	99
81) 4-methyl-2-pentanone	11.88	58	57064	107.89	ug/L	98
82) toluene	12.13	91	565702	88.25	ug/L	100
83) 3-methyl-1-butanol	11.91	70	85248	2185.89	ug/L	99
84) trans-1,3-dichloropropene	12.35	75	220109	104.56	ug/L	100
85) ethyl methacrylate	12.32	69	183928	105.84	ug/L	99
86) 1,1,2-trichloroethane	12.56	83	110920	103.18	ug/L	99
87) 2-hexanone	12.72	58	64069	108.29	ug/L	96
89) tetrachloroethene	12.69	166	157053	96.74	ug/L	99
90) 1,3-dichloropropane	12.74	76	202084	101.79	ug/L	100
91) butyl acetate	12.78	56	94321	98.13	ug/L	96
92) dibromochloromethane	13.00	129	161444	104.85	ug/L	99
93) 1,2-dibromoethane	13.15	107	133602	105.51	ug/L	98
94) 3,3-Dimethyl-1-Butanol	12.89	57	156022	1048.30	ug/L	99
96) chlorobenzene	13.59	112	380001	95.13	ug/L	100
97) 1,1,1,2-tetrachloroethane	13.65	131	143579	101.19	ug/L	99
98) ethylbenzene	13.62	91	609903	90.95	ug/L	99
99) m,p-xylene	13.73	106	477684	181.00	ug/L	99
100) o-xylene	14.15	91	501151	94.31	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : Y146741.D
 Acq On : 24 Jun 2014 3:20 pm
 Operator : prashans
 Sample : IC6377-100
 Misc : MS69208,VY6377,5.0,,,,1
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 25 11:22:52 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MYS6377.M
 Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Tue Jun 24 15:27:34 2014
 Response via : Initial Calibration

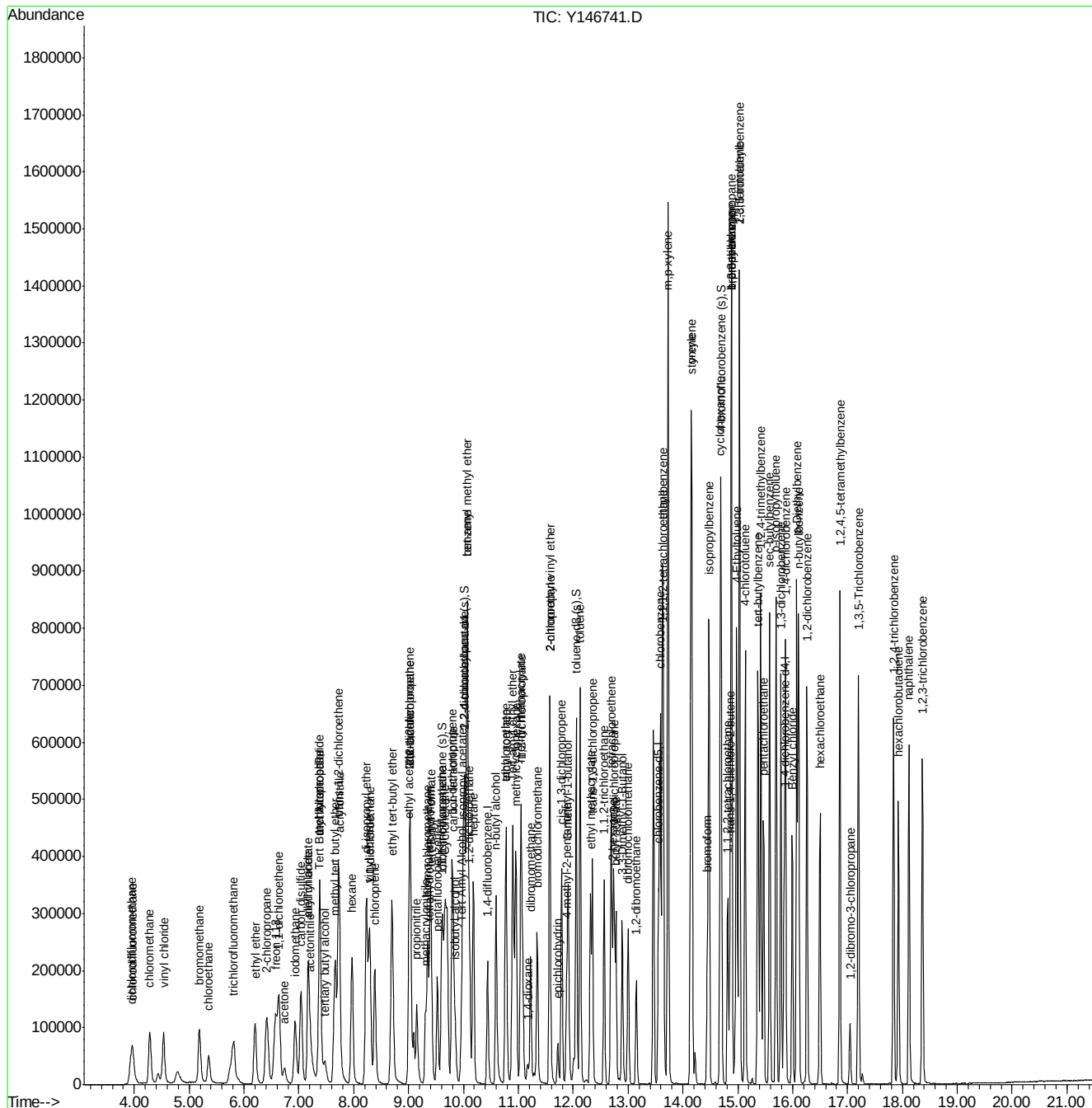
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
101) styrene	14.16	104	427068	103.66	ug/L	100
102) bromoform	14.45	173	114115	108.04	ug/L	99
104) isopropylbenzene	14.48	105	585152	87.67	ug/L	100
107) bromobenzene	14.89	156	179308	99.61	ug/L	99
108) cyclohexanone	14.68	55	320520	985.97	ug/L	98
109) 1,1,2,2-tetrachloroethane	14.82	83	181423	99.58	ug/L	100
110) trans-1,4-dichloro-2-buten	14.85	53	45255	105.42	ug/L	96
111) 1,2,3-trichloropropane	14.89	110	39702	100.21	ug/L	94
112) n-propylbenzene	14.88	91	678703	91.15	ug/L	100
113) 4-Ethyltoluene	14.98	105	578858	96.55	ug/L	100
114) 2-chlorotoluene	15.04	126	150835	93.46	ug/L	98
115) 4-chlorotoluene	15.14	91	441297	91.61	ug/L	99
116) 1,3,5-trimethylbenzene	15.03	105	488960	88.66	ug/L	99
117) tert-butylbenzene	15.37	119	412449	92.54	ug/L	99
118) pentachloroethane	15.47	167	105889	97.26	ug/L	96
119) 1,2,4-trimethylbenzene	15.42	105	495885	91.53	ug/L	99
120) sec-butylbenzene	15.58	105	632415	89.28	ug/L	100
121) 1,3-dichlorobenzene	15.78	146	323820	96.98	ug/L	99
122) p-isopropyltoluene	15.70	119	535222	91.90	ug/L	99
123) 1,4-dichlorobenzene	15.87	146	329320	94.29	ug/L	99
124) 1,2-dichlorobenzene	16.26	146	312834	97.45	ug/L	99
125) n-butylbenzene	16.11	92	279413	92.73	ug/L	99
126) p-Diethylbenzene	16.08	119	321257	94.97	ug/L	99
127) 1,2-dibromo-3-chloropropan	17.05	157	36572	106.60	ug/L	95
128) 1,3,5-Trichlorobenzene	17.20	180	259439	94.42	ug/L	99
129) 1,2,4-trichlorobenzene	17.84	180	229427	101.00	ug/L	99
130) 1,2,4,5-tetramethylbenzene	16.86	119	502472	97.94	ug/L	100
131) hexachlorobutadiene	17.93	225	126418	89.90	ug/L	98
132) naphthalene	18.12	128	492456	107.38	ug/L	100
133) 1,2,3-trichlorobenzene	18.37	180	212732	100.34	ug/L	99
134) hexachloroethane	16.50	119	108980	96.11	ug/L	100
135) Benzyl chloride	15.99	91	322169	100.93	ug/L	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : Y146741.D
Acq On : 24 Jun 2014 3:20 pm
Operator : prashans
Sample : IC6377-100
Misc : MS69208,VY6377,5.0,,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 25 11:22:52 2014
Quant Method : C:\MSDCHEM\1\METHODS\MYS6377.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Jun 24 15:27:34 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : Y146742.D
 Acq On : 24 Jun 2014 3:48 pm
 Operator : prashans
 Sample : IC6377-200
 Misc : MS69208,VY6377,5.0,,,,1
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 25 11:31:40 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MYS6377.M
 Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Tue Jun 24 16:47:20 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.37	65	66768	500.00	ug/L	0.02
5) pentafluorobenzene	9.52	168	181001	50.00	ug/L	0.00
58) 1,4-difluorobenzene	10.44	114	221569	50.00	ug/L	0.00
88) chlorobenzene-d5	13.56	117	189432	50.00	ug/L	0.00
103) 1,4-dichlorobenzene-d4	15.85	152	100082	50.00	ug/L	0.00

System Monitoring Compounds

50) dibromofluoromethane (s)	9.60	113	265213	185.83	ug/L	0.00
Spiked Amount	50.000	Range	59 - 130	Recovery	=	371.66%#
51) 1,2-dichloroethane-d4 (s)	10.02	65	293232	190.99	ug/L	0.00
Spiked Amount	50.000	Range	65 - 123	Recovery	=	381.98%#
80) toluene-d8 (s)	12.06	98	947714	173.37	ug/L	0.00
Spiked Amount	50.000	Range	77 - 125	Recovery	=	346.74%#
105) 4-bromofluorobenzene (s)	14.70	95	361461	177.80	ug/L	0.00
Spiked Amount	50.000	Range	71 - 132	Recovery	=	355.60%#

Target Compounds

						Qvalue
2) 1,4-dioxane	11.17	88	78986	4928.68	ug/L	# 98
4) tertiary butyl alcohol	7.47	59	171201	963.68	ug/L	96
11) chlorodifluoromethane	3.97	51	219865	186.91	ug/L	99
12) dichlorodifluoromethane	3.94	85	264783	190.75	ug/L	97
13) chloromethane	4.29	50	361006	184.55	ug/L	100
14) vinyl chloride	4.54	62	326438	186.79	ug/L	99
16) bromomethane	5.18	94	199274	148.23	ug/L	100
17) chloroethane	5.35	64	147138	182.23	ug/L	96
19) trichlorofluoromethane	5.81	101	336411	178.52	ug/L	98
20) ethyl ether	6.20	74	158830	212.39	ug/L	99
21) 2-chloropropane	6.42	63	101094	191.08	ug/L	99
22) acrolein	6.52	56	5508	19.07	ug/L	98
23) 1,1-dichloroethene	6.64	61	356331	184.49	ug/L	99
25) allyl chloride	7.17	76	134122	196.42	ug/L	96
26) acetonitrile	7.21	40	202955	1880.05	ug/L	99
27) iodomethane	6.94	142	473779	195.25	ug/L	99
28) carbon disulfide	7.04	76	817449	176.67	ug/L	99
29) 1-chloropropane	7.38	42	422966	161.13	ug/L	100
30) methylene chloride	7.37	49	400390	164.42	ug/L	99
31) methyl acetate	7.17	74	43786	228.08	ug/L	92
32) methyl tert butyl ether	7.66	73	827881	198.70	ug/L	99
33) trans-1,2-dichloroethene	7.72	61	369331	191.42	ug/L	99
34) di-isopropyl ether	8.23	45	972924	194.92	ug/L	100
35) ethyl tert-butyl ether	8.70	59	942751	202.74	ug/L	100
36) 2-butanone	9.02	72	36374	186.72	ug/L	87
37) 1,1-dichloroethane	8.29	63	481487	191.64	ug/L	98
38) chloroprene	8.38	53	346818	194.89	ug/L	99
39) acrylonitrile	7.74	53	479610	1042.86	ug/L	100
40) vinyl acetate	8.28	86	45838	243.06	ug/L	94
41) ethyl acetate	9.01	45	43058	211.17	ug/L	64
42) 2,2-dichloropropane	9.02	77	341286	172.10	ug/L	97
43) cis-1,2-dichloroethene	9.03	96	309847	190.95	ug/L	97
44) propionitrile	9.15	54	384028	2090.72	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : Y146742.D
 Acq On : 24 Jun 2014 3:48 pm
 Operator : prashans
 Sample : IC6377-200
 Misc : MS69208,VY6377,5.0,,,,1
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 25 11:31:40 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MYS6377.M
 Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Tue Jun 24 16:47:20 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) bromochloromethane	9.35	130	204189	203.52	ug/L	99
46) tetrahydrofuran	9.37	72	36967	202.56	ug/L	93
47) chloroform	9.40	83	477140	188.55	ug/L	99
48) tert-Butyl Formate	9.41	59	193385	206.22	ug/L	99
49) isobutyl alcohol	9.85	41	96228	1797.82	ug/L #	97
52) freon 113	6.58	151	177252	192.59	ug/L	100
53) methacrylonitrile	9.31	67	109601	206.13	ug/L	99
54) 1,1,1-trichloroethane	9.62	97	364580	185.19	ug/L	99
55) Cyclohexane	9.67	84	358518	177.61	ug/L #	99
56) 2,2,4-trimethylpentane	10.02	57	985040	190.78	ug/L	96
57) tert-amyl methyl ether	10.07	73	902397	199.09	ug/L	99
59) epichlorohydrin	11.72	57	136448	1004.00	ug/L	96
60) n-butyl alcohol	10.60	56	458197	10704.21	ug/L	100
61) carbon tetrachloride	9.81	117	325791	182.29	ug/L	99
62) 1,1-dichloropropene	9.80	75	336484	185.37	ug/L	98
63) hexane	7.97	57	336100	168.00	ug/L	99
64) Tert Amyl Alcohol	9.96	73	84708	937.28	ug/L #	98
65) benzene	10.06	78	1100949	186.61	ug/L	99
66) heptane	10.18	57	202350	184.06	ug/L	99
67) isopropyl acetate	9.98	61	118269	204.23	ug/L	97
68) 1,2-dichloroethane	10.11	62	338942	205.79	ug/L	98
69) trichloroethene	10.77	95	271442	189.91	ug/L	99
70) ethyl acrylate	10.78	55	352741	211.22	ug/L	99
71) 2-nitropropane	11.58	41	83795	177.60	ug/L	100
72) 2-chloroethyl vinyl ether	11.57	63	626675	1041.41	ug/L	99
73) methyl methacrylate	11.04	69	189951	203.67	ug/L	90
74) 1,2-dichloropropane	11.05	63	295362	194.83	ug/L	99
75) methylcyclohexane	10.96	83	440401	186.94	ug/L	100
76) Tert-amyl ethyl ether	10.90	59	704441	203.08	ug/L	100
77) dibromomethane	11.22	93	177387	202.84	ug/L	97
78) bromodichloromethane	11.34	83	393193	202.32	ug/L	100
79) cis-1,3-dichloropropene	11.79	75	493796	200.79	ug/L	99
81) 4-methyl-2-pentanone	11.88	58	110311	203.84	ug/L	98
82) toluene	12.13	91	1141366	178.93	ug/L	99
83) 3-methyl-1-butanol	11.91	70	165062	4126.97	ug/L	98
84) trans-1,3-dichloropropene	12.35	75	442221	206.83	ug/L	99
85) ethyl methacrylate	12.31	69	366134	206.89	ug/L	99
86) 1,1,2-trichloroethane	12.56	83	223197	204.78	ug/L	99
87) 2-hexanone	12.72	58	119382	197.08	ug/L	99
89) tetrachloroethene	12.69	166	304449	187.04	ug/L	100
90) 1,3-dichloropropane	12.74	76	404515	201.95	ug/L	99
91) butyl acetate	12.78	56	182699	189.52	ug/L	98
92) dibromochloromethane	13.00	129	324768	208.26	ug/L	99
93) 1,2-dibromoethane	13.15	107	267722	208.59	ug/L	99
94) 3,3-Dimethyl-1-Butanol	12.89	57	304240	2016.59	ug/L	99
96) chlorobenzene	13.59	112	771224	192.95	ug/L	99
97) 1,1,1,2-tetrachloroethane	13.65	131	291029	203.44	ug/L	99
98) ethylbenzene	13.62	91	1236424	185.01	ug/L	99
99) m,p-xylene	13.73	106	965117	367.13	ug/L	98
100) o-xylene	14.15	91	1016157	191.16	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : Y146742.D
 Acq On : 24 Jun 2014 3:48 pm
 Operator : prashans
 Sample : IC6377-200
 Misc : MS69208,VY6377,5.0,,,,1
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 25 11:31:40 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MYS6377.M
 Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Tue Jun 24 16:47:20 2014
 Response via : Initial Calibration

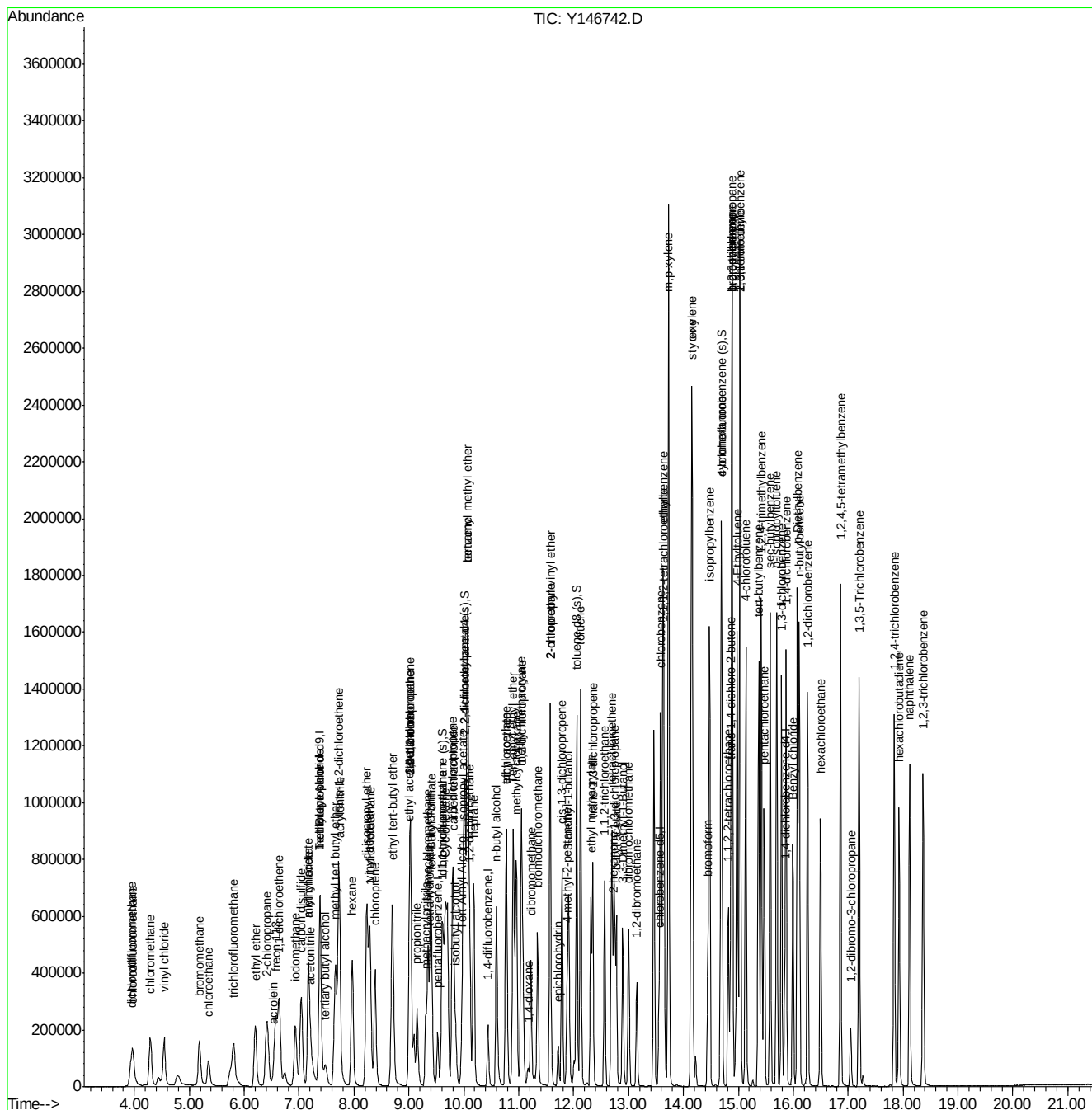
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
101) styrene	14.16	104	868644	208.59	ug/L	99
102) bromoform	14.45	173	229589	213.77	ug/L	99
104) isopropylbenzene	14.48	105	1183830	177.86	ug/L	99
107) bromobenzene	14.89	156	365718	201.04	ug/L	98
108) cyclohexanone	14.69	55	550946	1680.16	ug/L	98
109) 1,1,2,2-tetrachloroethane	14.82	83	354780	192.71	ug/L	98
110) trans-1,4-dichloro-2-buten	14.86	53	87980	200.88	ug/L	97
111) 1,2,3-trichloropropane	14.89	110	77200	192.66	ug/L	95
112) n-propylbenzene	14.88	91	1374093	184.33	ug/L	100
113) 4-Ethyltoluene	14.98	105	1166251	193.23	ug/L	97
114) 2-chlorotoluene	15.04	126	302895	187.15	ug/L	94
115) 4-chlorotoluene	15.14	91	900720	186.90	ug/L	100
116) 1,3,5-trimethylbenzene	15.03	105	990364	179.88	ug/L	100
117) tert-butylbenzene	15.37	119	826702	184.98	ug/L	99
118) pentachloroethane	15.47	167	223307	203.65	ug/L	97
119) 1,2,4-trimethylbenzene	15.42	105	996882	183.73	ug/L	99
120) sec-butylbenzene	15.58	105	1264774	178.72	ug/L	99
121) 1,3-dichlorobenzene	15.79	146	658531	195.71	ug/L	98
122) p-isopropyltoluene	15.70	119	1072005	183.70	ug/L	100
123) 1,4-dichlorobenzene	15.87	146	666506	190.11	ug/L	99
124) 1,2-dichlorobenzene	16.27	146	630051	194.73	ug/L	99
125) n-butylbenzene	16.11	92	558506	185.01	ug/L	97
126) p-Diethylbenzene	16.08	119	647424	190.49	ug/L	99
127) 1,2-dibromo-3-chloropropan	17.05	157	69322	197.68	ug/L	96
128) 1,3,5-Trichlorobenzene	17.20	180	525313	190.27	ug/L	99
129) 1,2,4-trichlorobenzene	17.84	180	466536	202.92	ug/L	100
130) 1,2,4,5-tetramethylbenzene	16.86	119	1004912	194.17	ug/L	100
131) hexachlorobutadiene	17.93	225	250564	178.49	ug/L	99
132) naphthalene	18.12	128	953245	203.70	ug/L	99
133) 1,2,3-trichlorobenzene	18.37	180	419274	195.51	ug/L	99
134) hexachloroethane	16.50	119	220960	193.67	ug/L	100
135) Benzyl chloride	15.99	91	628808	194.58	ug/L	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : Y146742.D
Acq On : 24 Jun 2014 3:48 pm
Operator : prashans
Sample : IC6377-200
Misc : MS69208,VY6377,5.0,,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 25 11:31:40 2014
Quant Method : C:\MSDCHEM\1\METHODS\MYS6377.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Jun 24 16:47:20 2014
Response via : Initial Calibration



MYS6377.M Thu Jun 26 16:02:22 2014 RPT1

Page: 4

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Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : Y146748.D
 Acq On : 25 Jun 2014 10:14 am
 Operator : prashans
 Sample : ICV6377-50
 Misc : MS69208,VY6377,5.0,,,,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 25 11:32:09 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MYS6377.M
 Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Wed Jun 25 11:30:58 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.36	65	68728	500.00	ug/L	0.00
5) pentafluorobenzene	9.52	168	198040	50.00	ug/L	0.00
58) 1,4-difluorobenzene	10.43	114	241592	50.00	ug/L	0.00
88) chlorobenzene-d5	13.56	117	203426	50.00	ug/L	0.00
103) 1,4-dichlorobenzene-d4	15.84	152	103861	50.00	ug/L	0.00

System Monitoring Compounds

50) dibromofluoromethane (s)	9.60	113	64968	42.03	ug/L	0.00
Spiked Amount	50.000	Range	59 - 130	Recovery	=	84.06%
51) 1,2-dichloroethane-d4 (s)	10.02	65	68676	42.03	ug/L	0.00
Spiked Amount	50.000	Range	65 - 123	Recovery	=	84.06%
80) toluene-d8 (s)	12.05	98	233499	41.79	ug/L	0.00
Spiked Amount	50.000	Range	77 - 125	Recovery	=	83.58%
105) 4-bromofluorobenzene (s)	14.70	95	88673	42.61	ug/L	0.00
Spiked Amount	50.000	Range	71 - 132	Recovery	=	85.22%

Target Compounds

						Qvalue
2) 1,4-dioxane	11.17	88	20347	1236.37	ug/L	99
4) tertiary butyl alcohol	7.47	59	44166	242.62	ug/L	98
11) chlorodifluoromethane	3.97	51	48440	37.65	ug/L	98
12) dichlorodifluoromethane	3.95	85	64393	42.83	ug/L	99
13) chloromethane	4.27	50	86822	40.96	ug/L	100
14) vinyl chloride	4.53	62	81054	42.74	ug/L	98
16) bromomethane	5.18	94	59004	43.46	ug/L	97
17) chloroethane	5.36	64	38187	43.71	ug/L	98
19) trichlorofluoromethane	5.80	101	86131	42.34	ug/L	99
20) ethyl ether	6.20	74	39267	47.62	ug/L	95
21) 2-chloropropane	6.41	63	25350	44.07	ug/L	98
22) acrolein	6.51	56	135401	431.33	ug/L	100
23) 1,1-dichloroethene	6.63	61	87533	41.78	ug/L	97
24) acetone	6.73	43	35190	39.64	ug/L	91
25) allyl chloride	7.17	76	32996	44.30	ug/L	95
26) acetonitrile	7.21	40	53156	447.99	ug/L	98
27) iodomethane	6.93	142	117016	44.21	ug/L	100
28) carbon disulfide	7.03	76	202038	40.43	ug/L	99
29) 1-chloropropane	7.38	42	108427	39.02	ug/L	# 92
30) methylene chloride	7.37	49	101879	39.41	ug/L	98
31) methyl acetate	7.17	74	9816	45.66	ug/L	94
32) methyl tert butyl ether	7.66	73	401986	88.24	ug/L	99
33) trans-1,2-dichloroethene	7.71	61	90372	43.01	ug/L	98
34) di-isopropyl ether	8.23	45	232021	42.59	ug/L	99
35) ethyl tert-butyl ether	8.69	59	219158	43.02	ug/L	100
36) 2-butanone	9.02	72	10698	50.75	ug/L	# 87
37) 1,1-dichloroethane	8.29	63	117741	43.03	ug/L	97
38) chloroprene	8.38	53	74187	38.21	ug/L	99
39) acrylonitrile	7.74	53	117947	234.42	ug/L	99
40) vinyl acetate	8.27	86	11770	55.07	ug/L	94
41) ethyl acetate	9.01	45	9431	41.88	ug/L	100
42) 2,2-dichloropropane	9.02	77	87895	41.15	ug/L	99
43) cis-1,2-dichloroethene	9.03	96	75023	42.47	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : Y146748.D
 Acq On : 25 Jun 2014 10:14 am
 Operator : prashans
 Sample : ICV6377-50
 Misc : MS69208,VY6377,5.0,,,,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 25 11:32:09 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MYS6377.M
 Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Wed Jun 25 11:30:58 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) propionitrile	9.15	54	95262	492.42	ug/L	99
45) bromochloromethane	9.35	130	50501	45.90	ug/L	95
46) tetrahydrofuran	9.37	72	9061	45.28	ug/L	96
47) chloroform	9.39	83	117673	42.81	ug/L	100
48) tert-Butyl Formate	9.41	59	48379	46.94	ug/L	99
49) isobutyl alcohol	9.84	41	25364	458.10	ug/L #	99
52) freon 113	6.57	151	43144	43.07	ug/L	99
53) methacrylonitrile	9.30	67	27299	46.69	ug/L	99
54) 1,1,1-trichloroethane	9.62	97	90274	42.26	ug/L	98
55) Cyclohexane	9.67	84	87699	40.21	ug/L #	98
56) 2,2,4-trimethylpentane	10.01	57	184714	32.87	ug/L	94
57) tert-amyl methyl ether	10.07	73	218693	44.11	ug/L	99
59) epichlorohydrin	11.72	57	33894	228.60	ug/L	97
60) n-butyl alcohol	10.59	56	116281	2485.01	ug/L	99
61) carbon tetrachloride	9.81	117	80379	41.66	ug/L	100
62) 1,1-dichloropropene	9.79	75	81226	41.37	ug/L	98
63) hexane	7.97	57	77096	38.52	ug/L	100
64) Tert Amyl Alcohol	9.96	73	43935	451.83	ug/L #	79
65) benzene	10.06	78	266811	41.76	ug/L	99
66) heptane	10.18	57	41869	35.33	ug/L	99
67) isopropyl acetate	9.98	61	28808	45.83	ug/L #	22
68) 1,2-dichloroethane	10.10	62	84582	46.95	ug/L	99
69) trichloroethene	10.77	95	66276	42.77	ug/L	98
70) ethyl acrylate	10.78	55	84989	46.37	ug/L	99
71) 2-nitropropane	11.58	41	21690	42.85	ug/L #	76
72) 2-chloroethyl vinyl ether	11.57	63	144626	219.32	ug/L	99
73) methyl methacrylate	11.04	69	47592	46.68	ug/L	96
74) 1,2-dichloropropane	11.05	63	72168	43.79	ug/L	100
75) methylcyclohexane	10.95	83	92739	36.37	ug/L	98
76) Tert-amyl ethyl ether	10.89	59	350840	92.60	ug/L	99
77) dibromomethane	11.22	93	44612	46.70	ug/L	97
78) bromodichloromethane	11.34	83	96314	45.39	ug/L	99
79) cis-1,3-dichloropropene	11.79	75	121713	45.37	ug/L	98
81) 4-methyl-2-pentanone	11.88	58	27744	46.89	ug/L	99
82) toluene	12.12	91	280190	40.78	ug/L	100
83) 3-methyl-1-butanol	11.91	70	41692	952.24	ug/L	99
84) trans-1,3-dichloropropene	12.35	75	110118	47.06	ug/L	99
85) ethyl methacrylate	12.31	69	91633	47.36	ug/L	99
86) 1,1,2-trichloroethane	12.56	83	55303	46.41	ug/L	98
87) 2-hexanone	12.72	58	30662	46.52	ug/L	99
89) tetrachloroethene	12.69	166	75947	43.73	ug/L	98
90) 1,3-dichloropropane	12.74	76	100585	46.68	ug/L	99
91) butyl acetate	12.78	56	44486	44.97	ug/L	98
92) dibromochloromethane	13.00	129	80386	47.75	ug/L	100
93) 1,2-dibromoethane	13.15	107	66053	47.66	ug/L	99
94) 3,3-Dimethyl-1-Butanol	12.89	57	75125	462.86	ug/L	98
96) chlorobenzene	13.58	112	189183	44.22	ug/L	98
97) 1,1,1,2-tetrachloroethane	13.65	131	72041	46.77	ug/L	98
98) ethylbenzene	13.62	91	301927	42.37	ug/L	100
99) m,p-xylene	13.73	106	238320	85.07	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : Y146748.D
 Acq On : 25 Jun 2014 10:14 am
 Operator : prashans
 Sample : ICV6377-50
 Misc : MS69208,VY6377,5.0,,,,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 25 11:32:09 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MYS6377.M
 Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Wed Jun 25 11:30:58 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
100) o-xylene	14.14	91	248110	43.63	ug/L	99
101) styrene	14.16	104	210111	46.75	ug/L	99
102) bromoform	14.45	173	56563	48.64	ug/L	99
104) isopropylbenzene	14.47	105	290886	42.58	ug/L	99
107) bromobenzene	14.89	156	88813	47.01	ug/L	98
108) cyclohexanone	14.68	55	162108	487.39	ug/L	99
109) 1,1,2,2-tetrachloroethane	14.82	83	89365	46.96	ug/L	99
110) trans-1,4-dichloro-2-buten	14.86	53	22044	48.46	ug/L	96
111) 1,2,3-trichloropropane	14.89	110	19670	47.51	ug/L	94
112) n-propylbenzene	14.88	91	336095	43.86	ug/L	100
113) 4-Ethyltoluene	14.98	105	279775	44.83	ug/L	98
114) 2-chlorotoluene	15.04	126	75235	45.11	ug/L	97
115) 4-chlorotoluene	15.14	91	220776	44.50	ug/L	100
116) 1,3,5-trimethylbenzene	15.03	105	251342	44.43	ug/L	100
117) tert-butylbenzene	15.37	119	203243	44.15	ug/L	99
118) pentachloroethane	15.47	167	54248	47.55	ug/L	97
119) 1,2,4-trimethylbenzene	15.42	105	248617	44.51	ug/L	100
120) sec-butylbenzene	15.58	105	315915	43.47	ug/L	99
121) 1,3-dichlorobenzene	15.78	146	162867	46.73	ug/L	100
122) p-isopropyltoluene	15.70	119	268261	44.65	ug/L	99
123) 1,4-dichlorobenzene	15.87	146	166377	45.97	ug/L	99
124) 1,2-dichlorobenzene	16.26	146	157179	46.94	ug/L	99
125) n-butylbenzene	16.11	92	139662	44.95	ug/L	98
126) p-Diethylbenzene	16.08	119	161304	45.97	ug/L #	81
127) 1,2-dibromo-3-chloropropan	17.05	157	17666	48.61	ug/L	96
128) 1,3,5-Trichlorobenzene	17.20	180	132347	46.41	ug/L	99
129) 1,2,4-trichlorobenzene	17.84	180	116903	48.92	ug/L	99
130) 1,2,4,5-tetramethylbenzene	16.86	119	251428	46.94	ug/L	100
131) hexachlorobutadiene	17.93	225	63674	44.23	ug/L	98
132) naphthalene	18.12	128	244178	50.17	ug/L	99
133) 1,2,3-trichlorobenzene	18.37	180	107624	48.47	ug/L	97
134) hexachloroethane	16.50	119	53383	45.24	ug/L	99
135) Benzyl chloride	15.99	91	162435	48.59	ug/L	99

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

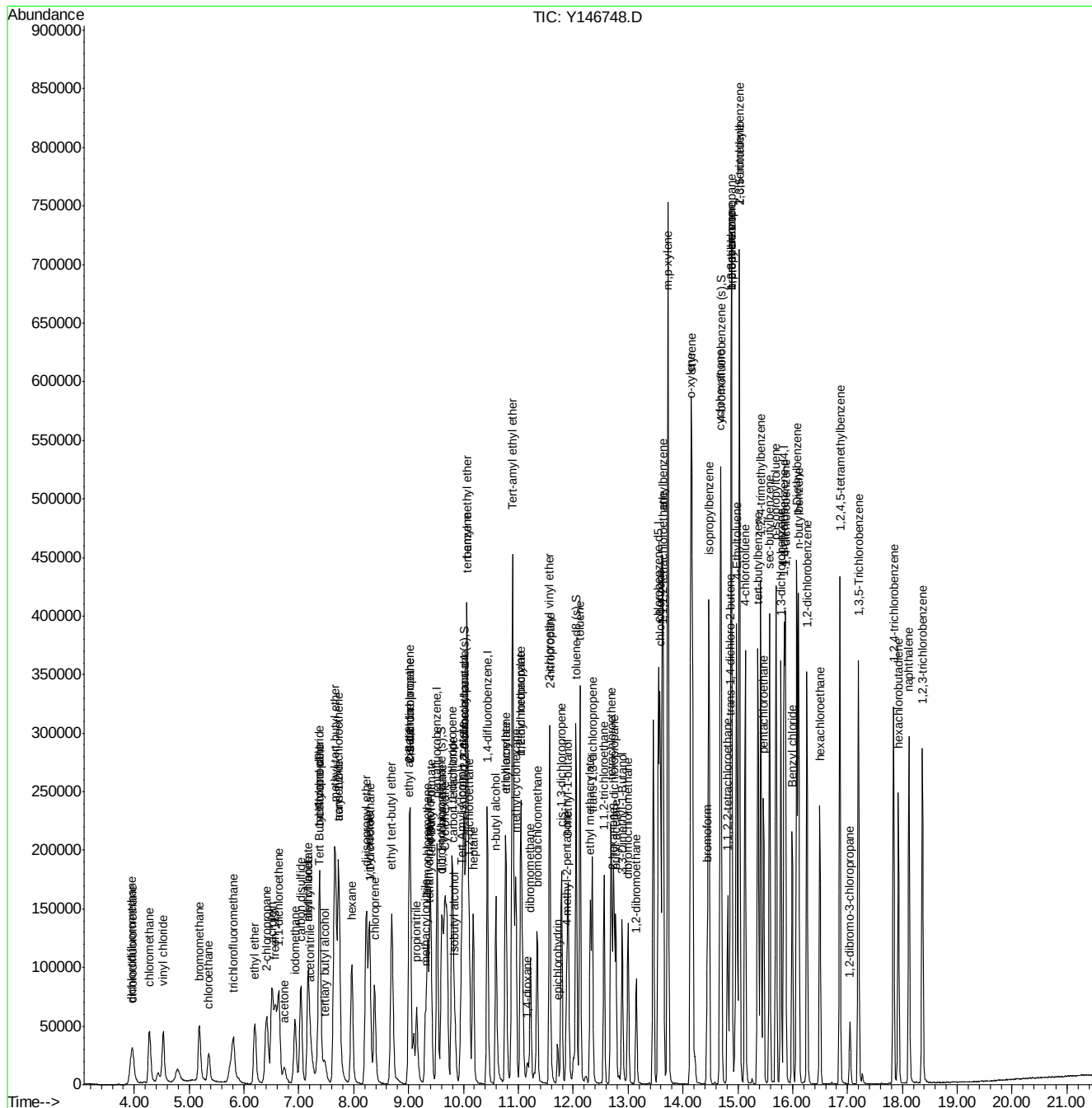
7.6.23

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Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : Y146748.D
Acq On : 25 Jun 2014 10:14 am
Operator : prashans
Sample : ICV6377-50
Misc : MS69208,VY6377,5.0,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 25 11:32:09 2014
Quant Method : C:\MSDCHEM\1\METHODS\MYS6377.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Wed Jun 25 11:30:58 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : Y146908.D
 Acq On : 1 Jul 2014 3:50 pm
 Operator : prashans
 Sample : CC6377-20
 Misc : MS69889,VY6385,5.0,,,,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 02 08:30:14 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MYS6377.M
 Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Wed Jun 25 11:30:58 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.35	65	66302	500.00	ug/L	0.00
5) pentafluorobenzene	9.52	168	172995	50.00	ug/L	0.00
58) 1,4-difluorobenzene	10.44	114	207285	50.00	ug/L	0.00
88) chlorobenzene-d5	13.56	117	174852	50.00	ug/L	0.00
103) 1,4-dichlorobenzene-d4	15.84	152	89628	50.00	ug/L	0.00

System Monitoring Compounds

50) dibromofluoromethane (s)	9.60	113	65891	48.80	ug/L	0.00
Spiked Amount	50.000	Range	59 - 130	Recovery	=	97.60%
51) 1,2-dichloroethane-d4 (s)	10.02	65	68063	47.68	ug/L	0.00
Spiked Amount	50.000	Range	65 - 123	Recovery	=	95.36%
80) toluene-d8 (s)	12.06	98	251000	52.36	ug/L	0.00
Spiked Amount	50.000	Range	77 - 125	Recovery	=	104.72%
105) 4-bromofluorobenzene (s)	14.70	95	85596	47.67	ug/L	0.00
Spiked Amount	50.000	Range	71 - 132	Recovery	=	95.34%

Target Compounds

						Qvalue
2) 1,4-dioxane	11.18	88	8044	506.67	ug/L	# 99
4) tertiary butyl alcohol	7.47	59	18737	106.70	ug/L	94
11) chlorodifluoromethane	3.97	51	29265	26.04	ug/L	98
12) dichlorodifluoromethane	3.95	85	25733	19.59	ug/L	94
13) chloromethane	4.27	50	34574	18.67	ug/L	100
14) vinyl chloride	4.51	62	32531	19.64	ug/L	98
16) bromomethane	5.19	94	23565	19.87	ug/L	97
17) chloroethane	5.36	64	15389	20.17	ug/L	93
19) trichlorofluoromethane	5.80	101	35727	20.11	ug/L	98
20) ethyl ether	6.20	74	15465	21.47	ug/L	99
21) 2-chloropropane	6.42	63	11991	23.87	ug/L	91
22) acrolein	6.52	56	58211	212.28	ug/L	98
23) 1,1-dichloroethene	6.63	61	42004	22.95	ug/L	96
24) acetone	6.74	43	16662	21.49	ug/L	99
25) allyl chloride	7.17	76	14975	23.01	ug/L	98
26) acetonitrile	7.22	40	23227	224.09	ug/L	98
27) iodomethane	6.93	142	51882	22.44	ug/L	98
28) carbon disulfide	7.03	76	96694	22.15	ug/L	99
29) 1-chloropropane	7.38	42	56134	23.12	ug/L	# 91
30) methylene chloride	7.38	49	43476	19.25	ug/L	99
31) methyl acetate	7.18	74	4156	22.13	ug/L	# 81
32) methyl tert butyl ether	7.66	73	85501	21.49	ug/L	99
33) trans-1,2-dichloroethene	7.72	61	41825	22.79	ug/L	97
34) di-isopropyl ether	8.23	45	100263	21.07	ug/L	98
35) ethyl tert-butyl ether	8.70	59	92812	20.85	ug/L	98
36) 2-butanone	9.02	72	4332	23.53	ug/L	84
37) 1,1-dichloroethane	8.30	63	53538	22.40	ug/L	97
38) chloroprene	8.38	53	38823	22.89	ug/L	98
39) acrylonitrile	7.75	53	50828	115.65	ug/L	98
40) vinyl acetate	8.28	86	4159	22.28	ug/L	91
41) ethyl acetate	9.02	45	4068	20.68	ug/L	# 23
42) 2,2-dichloropropane	9.02	77	41063	22.01	ug/L	97
43) cis-1,2-dichloroethene	9.03	96	32653	21.16	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : Y146908.D
 Acq On : 1 Jul 2014 3:50 pm
 Operator : prashans
 Sample : CC6377-20
 Misc : MS69889,VY6385,5.0,,,,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 02 08:30:14 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MYS6377.M
 Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Wed Jun 25 11:30:58 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) propionitrile	9.15	54	41886	247.86	ug/L	93
45) bromochloromethane	9.35	130	20849	21.69	ug/L	96
46) tetrahydrofuran	9.38	72	4050	23.17	ug/L	96
47) chloroform	9.40	83	51556	21.47	ug/L	99
48) tert-Butyl Formate	9.41	59	17531	19.47	ug/L	96
49) isobutyl alcohol	9.85	41	10568	218.50	ug/L #	94
52) freon 113	6.57	151	20635	23.58	ug/L	97
53) methacrylonitrile	9.31	67	11311	22.14	ug/L	92
54) 1,1,1-trichloroethane	9.62	97	41936	22.47	ug/L	98
55) Cyclohexane	9.66	84	41713	21.89	ug/L #	97
56) 2,2,4-trimethylpentane	10.01	57	107380	21.88	ug/L	96
57) tert-amyl methyl ether	10.07	73	89821	20.74	ug/L	99
59) epichlorohydrin	11.72	57	14573	114.55	ug/L	97
60) n-butyl alcohol	10.60	56	48943	1219.06	ug/L	97
61) carbon tetrachloride	9.81	117	37320	22.54	ug/L	99
62) 1,1-dichloropropene	9.80	75	38624	22.93	ug/L	99
63) hexane	7.97	57	37966	22.11	ug/L	98
65) benzene	10.06	78	119905	21.87	ug/L	99
66) heptane	10.18	57	22912	22.53	ug/L	98
67) isopropyl acetate	9.98	61	12711	23.57	ug/L #	26
68) 1,2-dichloroethane	10.11	62	36169	23.40	ug/L	99
69) trichloroethene	10.77	95	30109	22.64	ug/L	99
71) 2-nitropropane	11.58	41	8942	20.59	ug/L #	28
72) 2-chloroethyl vinyl ether	11.57	63	41521	73.39	ug/L	98
73) methyl methacrylate	11.05	69	19509	22.30	ug/L	94
74) 1,2-dichloropropane	11.05	63	31030	21.94	ug/L	100
75) methylcyclohexane	10.95	83	46616	21.31	ug/L	98
77) dibromomethane	11.22	93	18144	22.14	ug/L	96
78) bromodichloromethane	11.34	83	40727	22.37	ug/L	99
79) cis-1,3-dichloropropene	11.79	75	50868	22.10	ug/L	99
81) 4-methyl-2-pentanone	11.88	58	11534	22.72	ug/L	92
82) toluene	12.13	91	124542	21.13	ug/L	99
83) 3-methyl-1-butanol	11.91	70	17117	455.66	ug/L	97
84) trans-1,3-dichloropropene	12.35	75	44841	22.33	ug/L	97
85) ethyl methacrylate	12.32	69	36754	22.14	ug/L	95
86) 1,1,2-trichloroethane	12.56	83	22762	22.26	ug/L	99
87) 2-hexanone	12.72	58	13947	24.66	ug/L	97
89) tetrachloroethene	12.69	166	33589	22.50	ug/L	98
90) 1,3-dichloropropane	12.74	76	41331	22.31	ug/L	97
91) butyl acetate	12.78	56	18756	22.06	ug/L	93
92) dibromochloromethane	13.00	129	32259	22.29	ug/L	97
93) 1,2-dibromoethane	13.15	107	27424	23.02	ug/L	97
94) 3,3-Dimethyl-1-Butanol	12.89	57	32252	231.18	ug/L	98
96) chlorobenzene	13.58	112	80519	21.90	ug/L	98
97) 1,1,1,2-tetrachloroethane	13.65	131	29737	22.46	ug/L	98
98) ethylbenzene	13.62	91	132415	21.62	ug/L	99
99) m,p-xylene	13.73	106	103619	43.03	ug/L	100
100) o-xylene	14.14	91	106589	21.81	ug/L	99
101) styrene	14.16	104	86169	22.31	ug/L	99
102) bromoform	14.45	173	22176	22.18	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : Y146908.D
 Acq On : 1 Jul 2014 3:50 pm
 Operator : prashans
 Sample : CC6377-20
 Misc : MS69889,VY6385,5.0,,,,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 02 08:30:14 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MYS6377.M
 Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Wed Jun 25 11:30:58 2014
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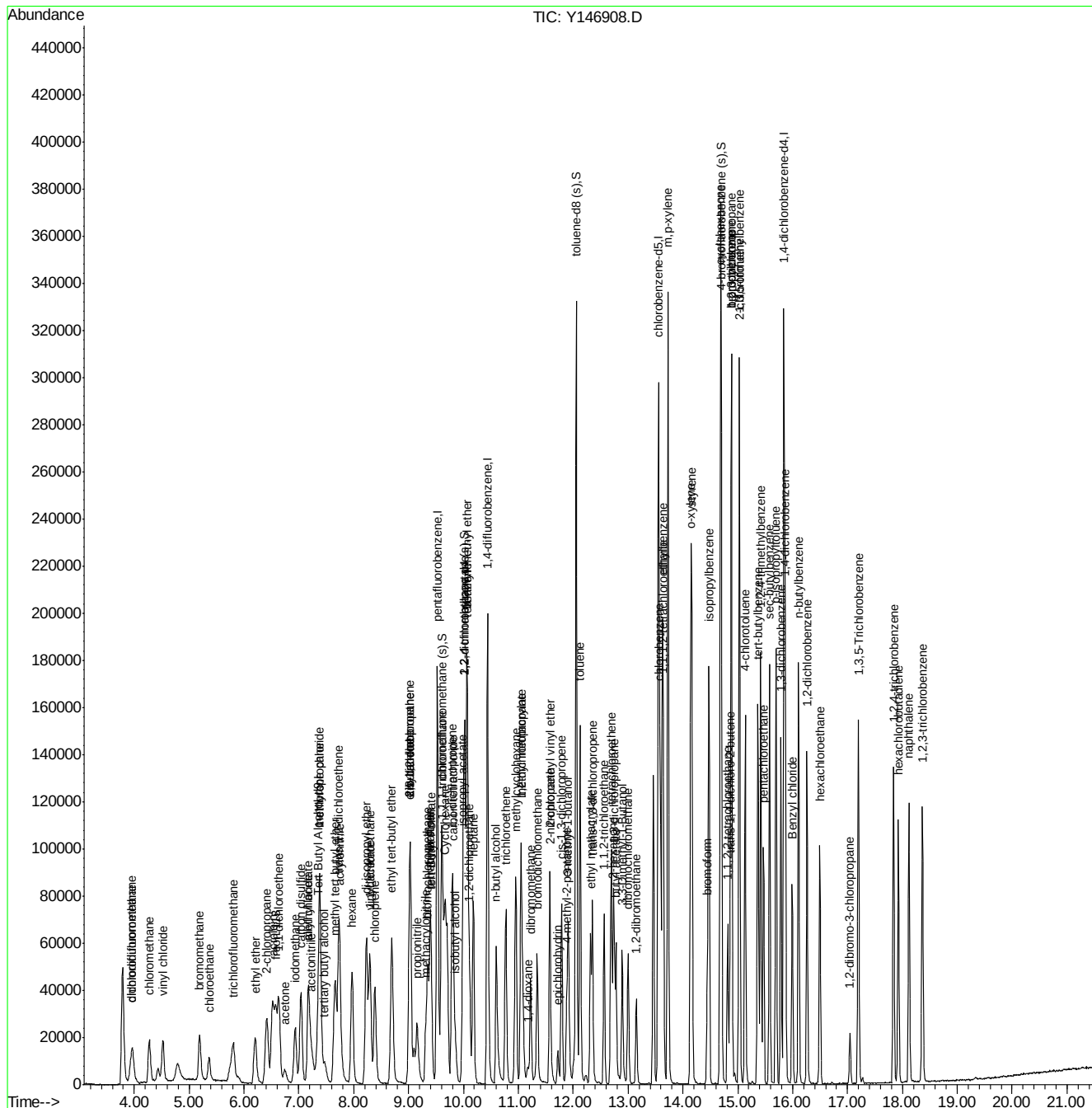
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) isopropylbenzene	14.47	105	126699	21.49	ug/L	99
107) bromobenzene	14.89	156	36345	22.29	ug/L	99
108) cyclohexanone	14.68	55	76280	265.76	ug/L	97
109) 1,1,2,2-tetrachloroethane	14.82	83	37228	22.67	ug/L	100
110) trans-1,4-dichloro-2-buten	14.85	53	9304	23.70	ug/L	92
111) 1,2,3-trichloropropane	14.89	110	8227	23.03	ug/L	97
112) n-propylbenzene	14.88	91	149067	22.54	ug/L	99
114) 2-chlorotoluene	15.04	126	32302	22.44	ug/L	97
115) 4-chlorotoluene	15.14	91	93078	21.74	ug/L	98
116) 1,3,5-trimethylbenzene	15.03	105	106540	21.82	ug/L	100
117) tert-butylbenzene	15.37	119	87828	22.11	ug/L	98
118) pentachloroethane	15.47	167	22051	22.40	ug/L	96
119) 1,2,4-trimethylbenzene	15.42	105	104548	21.69	ug/L	96
120) sec-butylbenzene	15.58	105	137727	21.96	ug/L	99
121) 1,3-dichlorobenzene	15.78	146	67456	22.43	ug/L	98
122) p-isopropyltoluene	15.70	119	115316	22.24	ug/L	99
123) 1,4-dichlorobenzene	15.87	146	67638	21.66	ug/L	100
124) 1,2-dichlorobenzene	16.27	146	63464	21.96	ug/L	98
125) n-butylbenzene	16.11	92	58694	21.89	ug/L	94
127) 1,2-dibromo-3-chloropropan	17.05	157	7063	22.52	ug/L	98
128) 1,3,5-Trichlorobenzene	17.20	180	55673	22.62	ug/L	99
129) 1,2,4-trichlorobenzene	17.84	180	47907	23.23	ug/L	99
131) hexachlorobutadiene	17.93	225	28501	22.94	ug/L	99
132) naphthalene	18.12	128	98566	23.47	ug/L	99
133) 1,2,3-trichlorobenzene	18.37	180	44139	23.04	ug/L	97
134) hexachloroethane	16.50	119	22657	22.25	ug/L	98
135) Benzyl chloride	15.99	91	64155	22.24	ug/L	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : Y146908.D
Acq On : 1 Jul 2014 3:50 pm
Operator : prashans
Sample : CC6377-20
Misc : MS69889,VY6385,5.0,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 02 08:30:14 2014
Quant Method : C:\MSDCHEM\1\METHODS\MYS6377.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Wed Jun 25 11:30:58 2014
Response via : Initial Calibration



7.6.24

Batch ID: V4D2197

Print Analyst Name: Payal Rana

Analyst Signature: Sayal Jana

Columns: ZB624 Pionero Mex 1.9

Method V8260B

Initial Cal. Method M402197

Date: 6/13/2014

Standard Data

Lot #	Description	Conc.
014-1961-26	EXT A	100% 110
19	B	↓
57	C	↓
05	Arch 1128	100% 110
40	Intern 1128	25% 110

Standard Data

Lot #	Description	Conc.
6/4-186/27	570 A	100 p/lr
34	B	
58	C	
42	Adol 52W	1000 p/lr
53	Hixan 2	100 p/lr

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: 6/16/2014

[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.

Sample Amt = Volume (ML) or Weight (g); MOH amt. = volume (ul) extract injected * IF pH > 2, comment on sample result.
All strike/buts 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: V4D2227Print Analyst Name: Payal RanaAnalyst Signature: JayloneColumns: 0624Method V8260 CInitial Cal. Method N402197Date: 7/3/2014

Standard Data

Lot #	Description	Conc.
014-184-71	8X+A	1000ppm
94	B	
84	C	
13	Acetone	1000ppm
85	ILS	1000ppm

Standard Data

Lot #	Description	Conc.
014-184-71	STD A	1000ppm
78	B	
92	C	
81	Acetone	1000ppm

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: 7/7

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
	4D49946	686				1	S		1X				OK	9.43AM	
	49947	CC2197-20				2	S		1X				OK		
	49948	IB				3	S		1X				%		
	49949	MB				4	S		1X				OK		
	49950	BS				5	S		1X				OK		
	49951	IB				6	S		1X				%		
	49952	JB70310-9	69833 TCL20+	6	2	7	S		1X				OK	RR DL "ZC" 1,2 dichloroethane hit	
	49953	JB70310-11			2	8	S		1X				NG	RR 1X %	✓
	49954	JB70310-13			2	9	S		1X				OK		✓
	49955	JB70310-16	70104 BTMT	1	10		S		1X				OK	JB70356-1	✓
	49956	JB70356-4			2	11	S		1X				OK		✓
	49957	JB70356-1M3			1/2	12	S		1X				OK		✓
	49958	JB70356-1M50			1/2	13	S		1X				OK		✓
	49959	IB				14	S		1X				%		
	49960	JB70412-41	69834 BTMT	6	1	15	S		1X				OK		✓
	49961	JB70517-3	69993 TCL20	5	16		S		1X				OK		✓
	49962	JB70517-4			5	17	S		1X				OK		✓

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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Batch ID: V40 2227
127 (9)

Print Analyst Name: Payal Kane

Analyst Signature: Sayak Kane

Columns: DB614

Method *V8260C*

Initial Cal. Method M402197

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: 7/7/2014

[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 initiated, 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: VY6377

Print Analyst Name: Prashant B Salkh
Analyst Signature: [Signature]

Date: 6/24/14

Standard Data

Lot #	Description	Conc.
1461-81	Acetone	1000 ppm
63	Ext Acetone	↓
54	Int	2000 ppm
66	Surv	100 ppm
69	S	↓

Standard Data

Lot #	Description	Conc.
1461-71	Std A	100 ppm
78	B	↓
79	C	↓
62	Ext A	↓
61	B	↓

Columns: 23624

Method V8260C only

Initial Cal. Method MY56377

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: 6/25/14

R	Data File	Sample ID	Test	M T X	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	Secondary dilution	L +	I S	S U	Status (Data)	Comments	pH < 2
✓	146732	BFB	TUNE	✓	1	1							OK	10:07 AM	
	146733	IC6377-0.2	IC8260		2	5							OK	200 ml 251/50 ml Dilute	
	146734	IC6377-0.5	IC8260		3	5							OK	200 ml 14.5 ml A+B+C+Ac+St+Sur 251/50 ml Dilute	
	146735	IC6377-1	IC8260		4	5							OK	200 ml 14.5 ml A+B+C+Ac+St+Sur 251/50 ml Dilute	
	146736	IC6377-2	IC8260		5	5							OK	200 ml 2.1 ml A+B+C+Ac+St+Sur 100 ml Dilute	
	146737	IC6377-5	IC8260		6	5							OK	200 ml 5.1 ml A+B+C+Ac+St+Sur 100 ml Dilute	
	146738	IC6377-10	IC8260		7	5							OK	200 ml 5.1 ml A+B+C+Ac+St+Sur 251/50 ml Dilute	
	146739	IC6377-20	IC8260		8	5							OK	200 ml 10.1 ml A+B+C+Ac+St+Sur 251/50 ml Dilute	
	146740	IC6377-50	IC8260		9	5							OK	200 ml 25.1 ml A+B+C+Ac+St+Sur 50 ml Dilute	
	146741	IC6377-100	IC8260		10	5							OK	200 ml 50.1 ml A+B+C+Ac+St+Sur 50 ml Dilute	
	146742	IC6377-200	IC8260		11	5							OK	200 ml 100.1 ml A+B+C+Ac+St+Sur 50 ml Dilute	
	146743	IB			12								-	CLW	
	146744	IB			13								-	CLW	
	146745	ICV6377-50	ICV8260	✓	14	5							OK	200 ml 25.1 ml A+B+C+Ac+St+Sur 50 ml Dilute	
	146746	IB			15								-		
	146747	BFB 2			16								OK		
	146748	ICV6377-50	ICV8260	✓	17	5							OK	200 ml 25.1 ml A+B+C+Ac+St+Sur 50 ml Dilute	

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Form: OR001-9

Rev. Date: 2/14/2007

1

Date: 7/1/14

 Print Analyst Name: Prashant B. Shukla
 Analyst Signature: [Signature]

Standard Data		
Lot #	Description	Conc.
51118-61	Aceton	1000 ppm
63	Ext Acetn	↓
74	Int Surr	2500 ppm
65	Ext Hexan	1000 ppm

Standard Data		
Lot #	Description	Conc.
51118-71	Sys A	1000 ppm
74	B	↓
82	C	↓
12	Ext A	↓
61	B	↓

 Columns: 23 624

 Method V8260 C

 Initial Cal. Method MY56377

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: 7/2/14

R	Data File	Sample ID	Test	M T X	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	Secondary dilution	L +	I S	S U	Status (Data)	Comments	pH ≤ 2
✓	146907	BF3				1							on	3.09 PM	
	146908	CE6377-80				2							on	10/1 Sys A + B + C + A / sample	
	146909	1B				3							on		
	146910	MB				4							on		
	146911	B5				5							on	25/1 EXT A + B + C + A + Hexa / sample	
	146912	1B				6							on		
	146913	JB70517-1	MS69998 JCL20		4	7	5.5						on		
	146914	JB70517-2			3	8	4.9						on		
	146915	JB70517-1mg			6	9	5.3						on	25/1 Sys A + B + C + A / sample	
	146916	JB70517-1mg	✓		7	10	5.2						on	↓	
	146917	1B				11							on		
	146918	JB70457-1	MS69991 JCL20		4	12	4.7						on		
	146919	JB70457-2			4	13	6.0						on		
	146920	JB70457-3			4	14	4.7						on		
	146921	JB70457-4			4	15	5.9						on		
	146922	JB70457-5			4	16	4.6						on		
	146923	JB70457-6	✓		4	17	5.7						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

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VOLATILE ANALYSIS LOG

GC/MS Semi-volatiles

QC Data Summaries

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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: JB70517

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
OP76077-MB1	6P8440.D	1	07/03/14	ALS	07/01/14	OP76077	E6P364

The QC reported here applies to the following samples:

Method: SW846 8270D

JB70517-1, JB70517-2

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

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Method Blank Summary

Page 2 of 3

Job Number: JB70517

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
OP76077-MB1	6P8440.D	1	07/03/14	ALS	07/01/14	OP76077	E6P364

The QC reported here applies to the following samples:

Method: SW846 8270D

JB70517-1, JB70517-2

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

Page 3 of 3

Job Number: JB70517

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
OP76077-MB1	6P8440.D	1	07/03/14	ALS	07/01/14	OP76077	E6P364

The QC reported here applies to the following samples:

Method: SW846 8270D

JB70517-1, JB70517-2

CAS No.	Surrogate Recoveries	Limits
367-12-4	2-Fluorophenol	90% 13-110%
4165-62-2	Phenol-d5	90% 15-110%
118-79-6	2,4,6-Tribromophenol	98% 20-123%
4165-60-0	Nitrobenzene-d5	99% 10-110%
321-60-8	2-Fluorobiphenyl	89% 17-110%
1718-51-0	Terphenyl-d14	89% 30-124%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact/aldol-condensation	3.24	1100	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: JB70517

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
OP76077-MB1	2P38164.D	1	07/05/14	ALS	07/01/14	OP76077	E2P1594

The QC reported here applies to the following samples:

Method: SW846 8270D

JB70517-1, JB70517-2

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	

8.1.2

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Method Blank Summary

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Job Number: JB70517

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
OP76077-MB1	2P38164.D	1	07/05/14	ALS	07/01/14	OP76077	E2P1594

The QC reported here applies to the following samples:

Method: SW846 8270D

JB70517-1, JB70517-2

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	

8.1.2

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Method Blank Summary

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Job Number: JB70517

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
OP76077-MB1	2P38164.D	1	07/05/14	ALS	07/01/14	OP76077	E2P1594

The QC reported here applies to the following samples:

Method: SW846 8270D

JB70517-1, JB70517-2

CAS No.	Surrogate Recoveries	Limits
367-12-4	2-Fluorophenol	86% 13-110%
4165-62-2	Phenol-d5	96% 15-110%
118-79-6	2,4,6-Tribromophenol	105% 20-123%
4165-60-0	Nitrobenzene-d5	99% 10-110%
321-60-8	2-Fluorobiphenyl	101% 17-110%
1718-51-0	Terphenyl-d14	102% 30-124%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact/aldol-condensation	2.81	730	ug/kg	J
	Total TIC, Semi-Volatile		0	ug/kg	

8.1.2

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Method Blank Summary

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Job Number: JB70517

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
OP76077-MB1	Z93539.D	1	07/12/14	ALS	07/01/14	OP76077	EZ4640

The QC reported here applies to the following samples:

Method: SW846 8270D

JB70517-1, JB70517-2

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	

8.1.3

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Method Blank Summary

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Job Number: JB70517

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
OP76077-MB1	Z93539.D	1	07/12/14	ALS	07/01/14	OP76077	EZ4640

The QC reported here applies to the following samples:

Method: SW846 8270D

JB70517-1, JB70517-2

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	

8.1.3

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Method Blank Summary

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Job Number: JB70517

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
OP76077-MB1	Z93539.D	1	07/12/14	ALS	07/01/14	OP76077	EZ4640

The QC reported here applies to the following samples:

Method: SW846 8270D

JB70517-1, JB70517-2

CAS No.	Surrogate Recoveries	Limits
367-12-4	2-Fluorophenol	96% 13-110%
4165-62-2	Phenol-d5	87% 15-110%
118-79-6	2,4,6-Tribromophenol	98% 20-123%
4165-60-0	Nitrobenzene-d5	105% 10-110%
321-60-8	2-Fluorobiphenyl	107% 17-110%
1718-51-0	Terphenyl-d14	116% 30-124%

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

8.1.3

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Method Blank Summary

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Job Number: JB70517

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
OP76142-MB1	F36792.D	1	07/06/14	AD	07/03/14	OP76142	EF5726

The QC reported here applies to the following samples:

Method: SW846 8270D

JB70517-3, JB70517-4

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	

8.1.4

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Method Blank Summary

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Job Number: JB70517

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
OP76142-MB1	F36792.D	1	07/06/14	AD	07/03/14	OP76142	EF5726

The QC reported here applies to the following samples:

Method: SW846 8270D

JB70517-3, JB70517-4

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	4.5	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	

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Method Blank Summary

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Job Number: JB70517

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
OP76142-MB1	F36792.D	1	07/06/14	AD	07/03/14	OP76142	EF5726

The QC reported here applies to the following samples:

Method: SW846 8270D

JB70517-3, JB70517-4

CAS No.	Surrogate Recoveries	Limits
367-12-4	2-Fluorophenol	42% 10-110%
4165-62-2	Phenol-d5	28% 10-110%
118-79-6	2,4,6-Tribromophenol	85% 29-139%
4165-60-0	Nitrobenzene-d5	71% 28-131%
321-60-8	2-Fluorobiphenyl	66% 30-121%
1718-51-0	Terphenyl-d14	81% 16-147%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	1.96	12	ug/l	J
	Internal standard added for SIM test	4.78	4.2	ug/l	J
	Internal standard added for SIM test	6.14	4.4	ug/l	J
	Internal standard added for SIM test	7.54	4.4	ug/l	J
	Internal standard added for SIM test	10.97	4.2	ug/l	J
	Internal standard added for SIM test	16.96	4	ug/l	J
	Total TIC, Semi-Volatile		0	ug/l	

8.1.4

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Method Blank Summary**Job Number:** JB70517**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
OP76142-MB1	6P8544.D	1	07/08/14	AV	07/03/14	OP76142	E6P368

The QC reported here applies to the following samples:**Method:** SW846 8270D

JB70517-3, JB70517-4

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	

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Job Number: JB70517

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
OP76142-MB1	6P8544.D	1	07/08/14	AV	07/03/14	OP76142	E6P368

The QC reported here applies to the following samples:

Method: SW846 8270D

JB70517-3, JB70517-4

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	4.8	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	

8.1.5

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Method Blank Summary

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Job Number: JB70517

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
OP76142-MB1	6P8544.D	1	07/08/14	AV	07/03/14	OP76142	E6P368

The QC reported here applies to the following samples:

Method: SW846 8270D

JB70517-3, JB70517-4

CAS No.	Surrogate Recoveries	Limits
367-12-4	2-Fluorophenol	41% 10-110%
4165-62-2	Phenol-d5	27% 10-110%
118-79-6	2,4,6-Tribromophenol	71% 29-139%
4165-60-0	Nitrobenzene-d5	72% 28-131%
321-60-8	2-Fluorobiphenyl	67% 30-121%
1718-51-0	Terphenyl-d14	84% 16-147%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Internal standard added for SIM te	4.59	4	ug/l	J
	Internal standard added for SIM te	11.61	4	ug/l	J
	Internal standard added for SIM te	15.94	4	ug/l	J
	Total TIC, Semi-Volatile		0	ug/l	

8.1.5

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Blank Spike Summary**Job Number:** JB70517**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
OP76077-BS1	6P8441.D	1	07/03/14	ALS	07/01/14	OP76077	E6P364

The QC reported here applies to the following samples:**Method:** SW846 8270D

JB70517-1, JB70517-2

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
95-57-8	2-Chlorophenol	1430	1390	97	37-110
59-50-7	4-Chloro-3-methyl phenol	1430	1460	102	44-125
120-83-2	2,4-Dichlorophenol	1430	1430	100	41-120
105-67-9	2,4-Dimethylphenol	1430	1720	120	43-137
51-28-5	2,4-Dinitrophenol	2860	2540	89	21-147
534-52-1	4,6-Dinitro-o-cresol	1430	1390	97	37-136
95-48-7	2-Methylphenol	1430	1450	102	40-110
	3&4-Methylphenol	1430	1470	103	39-111
88-75-5	2-Nitrophenol	1430	1450	102	36-117
100-02-7	4-Nitrophenol	1430	1780	125	26-143
87-86-5	Pentachlorophenol	1430	1530	107	21-123
108-95-2	Phenol	1430	1380	97	36-112
58-90-2	2,3,4,6-Tetrachlorophenol	1430	1400	98	40-121
95-95-4	2,4,5-Trichlorophenol	1430	1440	101	48-120
88-06-2	2,4,6-Trichlorophenol	1430	1460	102	48-119
83-32-9	Acenaphthene	1430	1230	86	46-110
208-96-8	Acenaphthylene	1430	1040	73	43-103
98-86-2	Acetophenone	1430	1350	95	35-120
120-12-7	Anthracene	1430	1250	88	56-118
1912-24-9	Atrazine	1430	1530	107	57-151
56-55-3	Benzo(a)anthracene	1430	1270	89	56-117
50-32-8	Benzo(a)pyrene	1430	1160	81	56-124
205-99-2	Benzo(b)fluoranthene	1430	1320	92	53-127
191-24-2	Benzo(g,h,i)perylene	1430	946	66	52-126
207-08-9	Benzo(k)fluoranthene	1430	1000	70	51-122
101-55-3	4-Bromophenyl phenyl ether	1430	1330	93	51-121
85-68-7	Butyl benzyl phthalate	1430	1420	99	52-133
92-52-4	1,1'-Biphenyl	1430	1280	90	42-122
100-52-7	Benzaldehyde	1430	1250	88	30-119
91-58-7	2-Chloronaphthalene	1430	1180	83	42-110
106-47-8	4-Chloroaniline	1430	693	49	32-102
86-74-8	Carbazole	1430	1200	84	53-119
105-60-2	Caprolactam	1430	1450	102	35-144
218-01-9	Chrysene	1430	1270	89	54-121
111-91-1	bis(2-Chloroethoxy)methane	1430	1350	95	40-118
111-44-4	bis(2-Chloroethyl)ether	1430	1310	92	33-110

* = Outside of Control Limits.

Blank Spike Summary

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Job Number: JB70517

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
OP76077-BS1	6P8441.D	1	07/03/14	ALS	07/01/14	OP76077	E6P364

The QC reported here applies to the following samples:

Method: SW846 8270D

JB70517-1, JB70517-2

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
108-60-1	bis(2-Chloroisopropyl)ether	1430	1200	84	30-108
7005-72-3	4-Chlorophenyl phenyl ether	1430	1240	87	48-116
121-14-2	2,4-Dinitrotoluene	1430	1300	91	51-126
606-20-2	2,6-Dinitrotoluene	1430	1270	89	52-126
91-94-1	3,3'-Dichlorobenzidine	2860	1720	60	49-115
123-91-1	1,4-Dioxane	1430	1050	74	10-110
53-70-3	Dibenzo(a,h)anthracene	1430	1110	78	53-126
132-64-9	Dibenzofuran	1430	1160	81	45-114
84-74-2	Di-n-butyl phthalate	1430	1330	93	56-125
117-84-0	Di-n-octyl phthalate	1430	1440	101	49-145
84-66-2	Diethyl phthalate	1430	1220	85	52-118
131-11-3	Dimethyl phthalate	1430	1250	88	54-114
117-81-7	bis(2-Ethylhexyl)phthalate	1430	1470	103	52-138
206-44-0	Fluoranthene	1430	1240	87	55-119
86-73-7	Fluorene	1430	1230	86	51-114
118-74-1	Hexachlorobenzene	1430	1210	85	47-122
87-68-3	Hexachlorobutadiene	1430	1300	91	28-117
77-47-4	Hexachlorocyclopentadiene	2860	2840	99	22-126
67-72-1	Hexachloroethane	1430	1280	90	28-103
193-39-5	Indeno(1,2,3-cd)pyrene	1430	1140	80	53-128
78-59-1	Isophorone	1430	1260	88	37-117
91-57-6	2-Methylnaphthalene	1430	1180	83	34-114
88-74-4	2-Nitroaniline	1430	1350	95	46-135
99-09-2	3-Nitroaniline	1430	804	56	44-114
100-01-6	4-Nitroaniline	1430	1190	83	44-128
91-20-3	Naphthalene	1430	1170	82	37-104
98-95-3	Nitrobenzene	1430	1340	94	34-117
621-64-7	N-Nitroso-di-n-propylamine	1430	1290	90	35-115
86-30-6	N-Nitrosodiphenylamine	1430	1330	93	51-114
85-01-8	Phenanthrene	1430	1210	85	55-113
129-00-0	Pyrene	1430	1320	92	54-120
95-94-3	1,2,4,5-Tetrachlorobenzene	1430	1160	81	38-112

* = Outside of Control Limits.

Blank Spike Summary

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Job Number: JB70517

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
OP76077-BS1	6P8441.D	1	07/03/14	ALS	07/01/14	OP76077	E6P364

The QC reported here applies to the following samples:

Method: SW846 8270D

JB70517-1, JB70517-2

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	87%	13-110%
4165-62-2	Phenol-d5	85%	15-110%
118-79-6	2,4,6-Tribromophenol	97%	20-123%
4165-60-0	Nitrobenzene-d5	96%	10-110%
321-60-8	2-Fluorobiphenyl	84%	17-110%
1718-51-0	Terphenyl-d14	96%	30-124%

* = Outside of Control Limits.

Blank Spike Summary**Job Number:** JB70517**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
OP76077-BS1	2P38165.D	1	07/05/14	ALS	07/01/14	OP76077	E2P1594

The QC reported here applies to the following samples:**Method:** SW846 8270D

JB70517-1, JB70517-2

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
95-57-8	2-Chlorophenol	1430	1530	107	37-110
59-50-7	4-Chloro-3-methyl phenol	1430	1600	112	44-125
120-83-2	2,4-Dichlorophenol	1430	1690	118	41-120
105-67-9	2,4-Dimethylphenol	1430	1860	130	43-137
51-28-5	2,4-Dinitrophenol	2860	2600	91	21-147
534-52-1	4,6-Dinitro-o-cresol	1430	1590	111	37-136
95-48-7	2-Methylphenol	1430	1480	104	40-110
	3&4-Methylphenol	1430	1450	102	39-111
88-75-5	2-Nitrophenol	1430	1730	121* a	36-117
100-02-7	4-Nitrophenol	1430	1730	121	26-143
87-86-5	Pentachlorophenol	1430	1660	116	21-123
108-95-2	Phenol	1430	1500	105	36-112
58-90-2	2,3,4,6-Tetrachlorophenol	1430	1510	106	40-121
95-95-4	2,4,5-Trichlorophenol	1430	1510	106	48-120
88-06-2	2,4,6-Trichlorophenol	1430	1610	113	48-119
83-32-9	Acenaphthene	1430	1360	95	46-110
208-96-8	Acenaphthylene	1430	1140	80	43-103
98-86-2	Acetophenone	1430	1420	99	35-120
120-12-7	Anthracene	1430	1420	99	56-118
1912-24-9	Atrazine	1430	1390	97	57-151
56-55-3	Benzo(a)anthracene	1430	1340	94	56-117
50-32-8	Benzo(a)pyrene	1430	1410	99	56-124
205-99-2	Benzo(b)fluoranthene	1430	1230	86	53-127
191-24-2	Benzo(g,h,i)perylene	1430	1040	73	52-126
207-08-9	Benzo(k)fluoranthene	1430	1380	97	51-122
101-55-3	4-Bromophenyl phenyl ether	1430	1460	102	51-121
85-68-7	Butyl benzyl phthalate	1430	1530	107	52-133
92-52-4	1,1'-Biphenyl	1430	1410	99	42-122
100-52-7	Benzaldehyde	1430	1330	93	30-119
91-58-7	2-Chloronaphthalene	1430	1250	88	42-110
106-47-8	4-Chloroaniline	1430	776	54	32-102
86-74-8	Carbazole	1430	1400	98	53-119
105-60-2	Caprolactam	1430	1470	103	35-144
218-01-9	Chrysene	1430	1400	98	54-121
111-91-1	bis(2-Chloroethoxy)methane	1430	1540	108	40-118
111-44-4	bis(2-Chloroethyl)ether	1430	1470	103	33-110

* = Outside of Control Limits.

Blank Spike Summary

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Job Number: JB70517

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
OP76077-BS1	2P38165.D	1	07/05/14	ALS	07/01/14	OP76077	E2P1594

The QC reported here applies to the following samples:

Method: SW846 8270D

JB70517-1, JB70517-2

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
108-60-1	bis(2-Chloroisopropyl)ether	1430	1310	92	30-108
7005-72-3	4-Chlorophenyl phenyl ether	1430	1350	95	48-116
121-14-2	2,4-Dinitrotoluene	1430	1330	93	51-126
606-20-2	2,6-Dinitrotoluene	1430	1340	94	52-126
91-94-1	3,3'-Dichlorobenzidine	2860	2000	70	49-115
123-91-1	1,4-Dioxane	1430	1010	71	10-110
53-70-3	Dibenzo(a,h)anthracene	1430	1180	83	53-126
132-64-9	Dibenzofuran	1430	1270	89	45-114
84-74-2	Di-n-butyl phthalate	1430	1480	104	56-125
117-84-0	Di-n-octyl phthalate	1430	1630	114	49-145
84-66-2	Diethyl phthalate	1430	1330	93	52-118
131-11-3	Dimethyl phthalate	1430	1280	90	54-114
117-81-7	bis(2-Ethylhexyl)phthalate	1430	1520	106	52-138
206-44-0	Fluoranthene	1430	1410	99	55-119
86-73-7	Fluorene	1430	1310	92	51-114
118-74-1	Hexachlorobenzene	1430	1360	95	47-122
87-68-3	Hexachlorobutadiene	1430	1400	98	28-117
77-47-4	Hexachlorocyclopentadiene	2860	2870	100	22-126
67-72-1	Hexachloroethane	1430	1290	90	28-103
193-39-5	Indeno(1,2,3-cd)pyrene	1430	1110	78	53-128
78-59-1	Isophorone	1430	1410	99	37-117
91-57-6	2-Methylnaphthalene	1430	1340	94	34-114
88-74-4	2-Nitroaniline	1430	1250	88	46-135
99-09-2	3-Nitroaniline	1430	789	55	44-114
100-01-6	4-Nitroaniline	1430	1200	84	44-128
91-20-3	Naphthalene	1430	1370	96	37-104
98-95-3	Nitrobenzene	1430	1390	97	34-117
621-64-7	N-Nitroso-di-n-propylamine	1430	1370	96	35-115
86-30-6	N-Nitrosodiphenylamine	1430	1430	100	51-114
85-01-8	Phenanthrene	1430	1370	96	55-113
129-00-0	Pyrene	1430	1470	103	54-120
95-94-3	1,2,4,5-Tetrachlorobenzene	1430	1120	78	38-112

* = Outside of Control Limits.

Blank Spike Summary

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Job Number: JB70517

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
OP76077-BS1	2P38165.D	1	07/05/14	ALS	07/01/14	OP76077	E2P1594

The QC reported here applies to the following samples:

Method: SW846 8270D

JB70517-1, JB70517-2

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	98%	13-110%
4165-62-2	Phenol-d5	94%	15-110%
118-79-6	2,4,6-Tribromophenol	108%	20-123%
4165-60-0	Nitrobenzene-d5	99%	10-110%
321-60-8	2-Fluorobiphenyl	91%	17-110%
1718-51-0	Terphenyl-d14	105%	30-124%

(a) Outside of in house control limits, but within reasonable method recovery limits.

* = Outside of Control Limits.

Blank Spike Summary

Page 1 of 3

Job Number: JB70517**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
OP76142-BS1	F36793.D	1	07/06/14	AD	07/03/14	OP76142	EF5726

The QC reported here applies to the following samples:**Method:** SW846 8270D

JB70517-3, JB70517-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
95-57-8	2-Chlorophenol	50	40.7	81	42-110
59-50-7	4-Chloro-3-methyl phenol	50	44.1	88	49-120
120-83-2	2,4-Dichlorophenol	50	39.8	80	47-114
105-67-9	2,4-Dimethylphenol	50	40.8	82	48-129
51-28-5	2,4-Dinitrophenol	100	117	117	26-153
534-52-1	4,6-Dinitro-o-cresol	50	54.1	108	44-132
95-48-7	2-Methylphenol	50	38.9	78	39-110
	3&4-Methylphenol	50	36.6	73	36-110
88-75-5	2-Nitrophenol	50	39.8	80	45-110
100-02-7	4-Nitrophenol	50	38.9	78	10-110
87-86-5	Pentachlorophenol	50	55.9	112	32-122
108-95-2	Phenol	50	22.1	44	10-110
58-90-2	2,3,4,6-Tetrachlorophenol	50	50.2	100	47-119
95-95-4	2,4,5-Trichlorophenol	50	49.2	98	52-119
88-06-2	2,4,6-Trichlorophenol	50	46.7	93	51-118
83-32-9	Acenaphthene	50	39.9	80	46-108
208-96-8	Acenaphthylene	50	33.3	67	44-101
98-86-2	Acetophenone	50	45.0	90	39-125
120-12-7	Anthracene	50	43.7	87	60-117
1912-24-9	Atrazine	50	60.3	121	58-153
100-52-7	Benzaldehyde	50	46.2	92	32-119
56-55-3	Benzo(a)anthracene	50	41.4	83	59-116
50-32-8	Benzo(a)pyrene	50	42.8	86	61-122
205-99-2	Benzo(b)fluoranthene	50	41.3	83	56-129
191-24-2	Benzo(g,h,i)perylene	50	44.6	89	54-126
207-08-9	Benzo(k)fluoranthene	50	40.4	81	53-124
101-55-3	4-Bromophenyl phenyl ether	50	44.8	90	55-120
85-68-7	Butyl benzyl phthalate	50	53.4	107	42-138
92-52-4	1,1'-Biphenyl	50	41.1	82	41-123
91-58-7	2-Chloronaphthalene	50	35.6	71	38-107
106-47-8	4-Chloroaniline	50	31.1	62	38-110
86-74-8	Carbazole	50	43.3	87	55-121
105-60-2	Caprolactam	50	14.7	29	10-113
218-01-9	Chrysene	50	42.6	85	58-121
111-91-1	bis(2-Chloroethoxy)methane	50	36.9	74	48-117
111-44-4	bis(2-Chloroethyl)ether	50	37.7	75	40-108

* = Outside of Control Limits.

Blank Spike Summary

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Job Number: JB70517

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
OP76142-BS1	F36793.D	1	07/06/14	AD	07/03/14	OP76142	EF5726

The QC reported here applies to the following samples:

Method: SW846 8270D

JB70517-3, JB70517-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
108-60-1	bis(2-Chloroisopropyl)ether	50	37.7	75	37-107
7005-72-3	4-Chlorophenyl phenyl ether	50	42.8	86	48-117
121-14-2	2,4-Dinitrotoluene	50	48.5	97	53-129
606-20-2	2,6-Dinitrotoluene	50	46.7	93	57-126
91-94-1	3,3'-Dichlorobenzidine	100	74.8	75	41-109
123-91-1	1,4-Dioxane	50	18.0	36	10-110
53-70-3	Dibenzo(a,h)anthracene	50	45.3	91	57-126
132-64-9	Dibenzofuran	50	38.2	76	46-112
84-74-2	Di-n-butyl phthalate	50	52.4	105	54-127
117-84-0	Di-n-octyl phthalate	50	52.1	104	55-142
84-66-2	Diethyl phthalate	50	47.8	96	35-130
131-11-3	Dimethyl phthalate	50	45.6	91	26-132
117-81-7	bis(2-Ethylhexyl)phthalate	50	60.9	122	58-135
206-44-0	Fluoranthene	50	46.0	92	59-120
86-73-7	Fluorene	50	41.7	83	53-114
118-74-1	Hexachlorobenzene	50	41.8	84	52-120
87-68-3	Hexachlorobutadiene	50	28.0	56	10-111
77-47-4	Hexachlorocyclopentadiene	100	72.7	73	10-116
67-72-1	Hexachloroethane	50	29.4	59	14-110
193-39-5	Indeno(1,2,3-cd)pyrene	50	44.5	89	56-127
78-59-1	Isophorone	50	36.1	72	45-119
91-57-6	2-Methylnaphthalene	50	31.7	63	30-112
88-74-4	2-Nitroaniline	50	56.2	112	46-136
99-09-2	3-Nitroaniline	50	40.8	82	46-113
100-01-6	4-Nitroaniline	50	43.2	86	47-129
91-20-3	Naphthalene	50	31.0	62	35-101
98-95-3	Nitrobenzene	50	36.4	73	40-115
621-64-7	N-Nitroso-di-n-propylamine	50	45.3	91	40-118
86-30-6	N-Nitrosodiphenylamine	50	45.3	91	54-112
85-01-8	Phenanthrene	50	42.7	85	58-113
129-00-0	Pyrene	50	42.4	85	56-120
95-94-3	1,2,4,5-Tetrachlorobenzene	50	36.8	74	28-111

* = Outside of Control Limits.

Blank Spike Summary

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Job Number: JB70517

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
OP76142-BS1	F36793.D	1	07/06/14	AD	07/03/14	OP76142	EF5726

The QC reported here applies to the following samples:

Method: SW846 8270D

JB70517-3, JB70517-4

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	48%	10-110%
4165-62-2	Phenol-d5	35%	10-110%
118-79-6	2,4,6-Tribromophenol	104%	29-139%
4165-60-0	Nitrobenzene-d5	73%	28-131%
321-60-8	2-Fluorobiphenyl	78%	30-121%
1718-51-0	Terphenyl-d14	89%	16-147%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

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Job Number: JB70517

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
OP76077-MS	2P38184.D	1	07/05/14	ALS	07/01/14	OP76077	E2P1594
OP76077-MSD	2P38185.D	1	07/05/14	ALS	07/01/14	OP76077	E2P1594
JB70517-1	2P38174.D	1	07/05/14	ALS	07/01/14	OP76077	E2P1594

The QC reported here applies to the following samples:

Method: SW846 8270D

JB70517-1, JB70517-2

CAS No.	Compound	JB70517-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
95-57-8	2-Chlorophenol	ND		2380	2740	115* a	2380	2740	115* a	0	16-104/44
59-50-7	4-Chloro-3-methyl phenol	ND		2380	2820	119* a	2380	2850	120* a	1	25-118/41
120-83-2	2,4-Dichlorophenol	ND		2380	2980	125* b	2380	3000	126* b	1	20-111/42
105-67-9	2,4-Dimethylphenol	ND		2380	3320	140* b	2380	3340	141* b	1	21-124/40
51-28-5	2,4-Dinitrophenol	ND		4750	791	17	4750	801	17	1	10-110/54
534-52-1	4,6-Dinitro-o-cresol	ND		2380	511	22	2380	487	20	5	10-111/55
95-48-7	2-Methylphenol	ND		2380	2660	112* a	2380	2670	112* a	0	19-105/42
	3&4-Methylphenol	ND		2380	2530	106	2380	2580	109* a	2	17-108/43
88-75-5	2-Nitrophenol	ND		2380	2700	114* a	2380	2760	116* a	2	11-103/44
100-02-7	4-Nitrophenol	ND		2380	3210	135	2380	3220	135	0	10-141/48
87-86-5	Pentachlorophenol	ND		2380	2500	105	2380	2400	101	4	10-114/47
108-95-2	Phenol	ND		2380	2690	113* a	2380	2700	114* a	0	16-105/42
58-90-2	2,3,4,6-Tetrachlorophenol	ND		2380	2770	117* a	2380	2670	112	4	20-116/42
95-95-4	2,4,5-Trichlorophenol	ND		2380	2730	115	2380	2710	114	1	24-116/42
88-06-2	2,4,6-Trichlorophenol	ND		2380	2970	125* a	2380	3000	126* a	1	21-117/40
83-32-9	Acenaphthene	ND		2380	2530	106	2380	2460	104	3	25-106/38
208-96-8	Acenaphthylene	ND		2380	2170	91	2380	2110	89	3	21-110/39
98-86-2	Acetophenone	ND		2380	2500	105	2380	2540	107	2	13-117/43
120-12-7	Anthracene	ND		2380	2590	109	2380	2540	107	2	27-123/40
1912-24-9	Atrazine	ND		2380	2630	111	2380	2530	106	4	31-147/39
56-55-3	Benzo(a)anthracene	ND		2380	2390	101	2380	2380	100	0	22-127/44
50-32-8	Benzo(a)pyrene	ND		2380	2800	118	2380	2780	117	1	22-132/42
205-99-2	Benzo(b)fluoranthene	ND		2380	2770	117	2380	2780	117	0	17-141/45
191-24-2	Benzo(g,h,i)perylene	ND		2380	2290	96	2380	2310	97	1	23-129/42
207-08-9	Benzo(k)fluoranthene	ND		2380	2880	121	2380	2810	118	2	20-124/44
101-55-3	4-Bromophenyl phenyl ether	ND		2380	2620	110	2380	2540	107	3	30-116/38
85-68-7	Butyl benzyl phthalate	ND		2380	2650	112	2380	2660	112	0	26-134/40
92-52-4	1,1'-Biphenyl	ND		2380	2630	111	2380	2630	111	0	22-114/41
100-52-7	Benzaldehyde	ND		2380	2460	104	2380	2630	111	7	10-115/42
91-58-7	2-Chloronaphthalene	ND		2380	2350	99	2380	2310	97	2	24-101/40
106-47-8	4-Chloroaniline	ND		2380	1720	72	2380	1360	57	23	15-110/44
86-74-8	Carbazole	ND		2380	2460	104	2380	2500	105	2	27-123/38
105-60-2	Caprolactam	ND		2380	2690	113	2380	2680	113	0	10-141/42
218-01-9	Chrysene	ND		2380	2490	105	2380	2500	105	0	21-131/42
111-91-1	bis(2-Chloroethoxy)methane	ND		2380	2690	113* a	2380	2660	112* a	1	21-108/40
111-44-4	bis(2-Chloroethyl)ether	ND		2380	2740	115* a	2380	2670	112* a	3	13-104/44

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

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Job Number: JB70517

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
OP76077-MS	2P38184.D	1	07/05/14	ALS	07/01/14	OP76077	E2P1594
OP76077-MSD	2P38185.D	1	07/05/14	ALS	07/01/14	OP76077	E2P1594
JB70517-1	2P38174.D	1	07/05/14	ALS	07/01/14	OP76077	E2P1594

The QC reported here applies to the following samples:

Method: SW846 8270D

JB70517-1, JB70517-2

CAS No.	Compound	JB70517-1 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		2380	2500	105	2380	2430	102	3	13-110/42
7005-72-3	4-Chlorophenyl phenyl ether	ND		2380	2500	105	2380	2430	102	3	27-111/38
121-14-2	2,4-Dinitrotoluene	ND		2380	2080	88	2380	2030	85	2	20-124/40
606-20-2	2,6-Dinitrotoluene	ND		2380	2270	96	2380	2200	93	3	24-122/38
91-94-1	3,3'-Dichlorobenzidine	ND		4750	4760	100	4750	4450	94	7	10-121/45
123-91-1	1,4-Dioxane	ND		2380	1640	69	2380	1620	68	1	10-110/48
53-70-3	Dibenzo(a,h)anthracene	ND		2380	2640	111	2380	2650	112	0	26-129/42
132-64-9	Dibenzofuran	ND		2380	2410	101	2380	2430	102	1	21-114/39
84-74-2	Di-n-butyl phthalate	ND		2380	2850	120	2380	2750	116	4	29-127/39
117-84-0	Di-n-octyl phthalate	ND		2380	3300	139	2380	3230	136	2	25-140/43
84-66-2	Diethyl phthalate	ND		2380	2490	105	2380	2390	101	4	32-115/37
131-11-3	Dimethyl phthalate	ND		2380	2500	105	2380	2450	103	2	29-115/37
117-81-7	bis(2-Ethylhexyl)phthalate	ND		2380	2630	111	2380	2590	109	2	26-140/43
206-44-0	Fluoranthene	ND		2380	2570	108	2380	2550	107	1	16-134/44
86-73-7	Fluorene	ND		2380	2470	104	2380	2370	100	4	24-116/39
118-74-1	Hexachlorobenzene	ND		2380	2470	104	2380	2450	103	1	24-118/41
87-68-3	Hexachlorobutadiene	ND		2380	2440	103	2380	2440	103	0	15-110/42
77-47-4	Hexachlorocyclopentadiene	ND		4750	847	18	4750	821	17	3	10-110/52
67-72-1	Hexachloroethane	ND		2380	1750	74	2380	1680	71	4	11-110/46
193-39-5	Indeno(1,2,3-cd)pyrene	ND		2380	2500	105	2380	2500	105	0	23-132/43
78-59-1	Isophorone	ND		2380	2550	107* a	2380	2500	105	2	22-105/41
91-57-6	2-Methylnaphthalene	ND		2380	2290	96	2380	2330	98	2	16-108/40
88-74-4	2-Nitroaniline	ND		2380	2280	96	2380	2320	98	2	23-130/39
99-09-2	3-Nitroaniline	ND		2380	2110	89	2380	1890	80	11	19-116/40
100-01-6	4-Nitroaniline	ND		2380	2320	98	2380	2160	91	7	18-124/42
91-20-3	Naphthalene	ND		2380	2580	109* a	2380	2530	106* a	2	13-103/41
98-95-3	Nitrobenzene	ND		2380	2510	106	2380	2490	105	1	14-109/41
621-64-7	N-Nitroso-di-n-propylamine	ND		2380	2470	104	2380	2440	103	1	11-113/41
86-30-6	N-Nitrosodiphenylamine	ND		2380	2630	111	2380	2610	110	1	26-119/38
85-01-8	Phenanthrene	ND		2380	2490	105	2380	2450	103	2	19-126/42
129-00-0	Pyrene	ND		2380	2550	107	2380	2550	107	0	17-136/45
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		2380	2190	92	2380	2150	90	2	22-110/41

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

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Job Number: JB70517

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
OP76077-MS	2P38184.D	1	07/05/14	ALS	07/01/14	OP76077	E2P1594
OP76077-MSD	2P38185.D	1	07/05/14	ALS	07/01/14	OP76077	E2P1594
JB70517-1	2P38174.D	1	07/05/14	ALS	07/01/14	OP76077	E2P1594

The QC reported here applies to the following samples:

Method: SW846 8270D

JB70517-1, JB70517-2

CAS No.	Surrogate Recoveries	MS	MSD	JB70517-1	Limits
367-12-4	2-Fluorophenol	99%	102%	81%	13-110%
4165-62-2	Phenol-d5	97%	98%	90%	15-110%
118-79-6	2,4,6-Tribromophenol	110%	112%	105%	20-123%
4165-60-0	Nitrobenzene-d5	103%	105%	88%	10-110%
321-60-8	2-Fluorobiphenyl	98%	98%	99%	17-110%
1718-51-0	Terphenyl-d14	106%	109%	95%	30-124%

(a) Outside of in house control limits.

(b) Outside control limits due to matrix interference.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 3

Job Number: JB70517

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
OP76142-MS	F36794.D	1	07/06/14	AD	07/03/14	OP76142	EF5726
OP76142-MSD	F36795.D	1	07/06/14	AD	07/03/14	OP76142	EF5726
JB70546-2	F36796.D	1	07/06/14	AD	07/03/14	OP76142	EF5726

The QC reported here applies to the following samples:

Method: SW846 8270D

JB70517-3, JB70517-4

CAS No.	Compound	JB70546-2		Spike	MS	MS	Spike	MSD	MSD	RPD	Limits
		ug/l	Q	ug/l	ug/l	%	ug/l	ug/l	%		
95-57-8	2-Chlorophenol	ND		100	95.2	95	100	86.9	87	9	30-106/33
59-50-7	4-Chloro-3-methyl phenol	ND		100	98.3	98	100	90.9	91	8	40-130/28
120-83-2	2,4-Dichlorophenol	ND		100	90.7	91	100	83.5	84	8	27-128/34
105-67-9	2,4-Dimethylphenol	ND		100	98.1	98	100	92.1	92	6	32-145/31
51-28-5	2,4-Dinitrophenol	ND		200	276	138	200	245	123	12	10-162/43
534-52-1	4,6-Dinitro-o-cresol	ND		100	122	122	100	114	114	7	10-147/42
95-48-7	2-Methylphenol	2.2		100	98.9	97	100	89.0	87	11	29-111/29
	3&4-Methylphenol	3.0		100	102	99	100	90.8	88	12	26-114/29
88-75-5	2-Nitrophenol	ND		100	90.6	91	100	83.8	84	8	27-121/35
100-02-7	4-Nitrophenol	ND		100	137	137* a	100	129	129	6	10-135/37
87-86-5	Pentachlorophenol	ND		100	139	139* a	100	131	131	6	21-133/35
108-95-2	Phenol	1.2	J	100	80.3	79	100	71.6	70	11	10-110/33
58-90-2	2,3,4,6-Tetrachlorophenol	ND		100	112	112	100	104	104	7	30-128/33
95-95-4	2,4,5-Trichlorophenol	ND		100	113	113	100	104	104	8	35-128/30
88-06-2	2,4,6-Trichlorophenol	ND		100	111	111	100	103	103	7	31-130/34
83-32-9	Acenaphthene	22.4		100	176	154* a	100	170	148* a	3	41-112/29
208-96-8	Acenaphthylene	ND		100	77.0	77	100	71.5	72	7	42-101/29
98-86-2	Acetophenone	ND		100	101	101	100	91.7	92	10	24-142/31
120-12-7	Anthracene	4.0		100	106	102	100	100	96	6	52-122/26
1912-24-9	Atrazine	ND		100	90.7	91	100	79.1	79	14	42-160/26
100-52-7	Benzaldehyde	ND		100	127	127	100	136	136* a	7	17-130/33
56-55-3	Benzo(a)anthracene	0.79	J	100	93.7	93	100	85.6	85	9	50-122/26
50-32-8	Benzo(a)pyrene	ND		100	97.3	97	100	88.4	88	10	51-127/27
205-99-2	Benzo(b)fluoranthene	ND		100	94.5	95	100	87.6	88	8	47-132/31
191-24-2	Benzo(g,h,i)perylene	ND		100	100	100	100	92.2	92	8	47-129/29
207-08-9	Benzo(k)fluoranthene	ND		100	87.9	88	100	79.2	79	10	43-130/29
101-55-3	4-Bromophenyl phenyl ether	ND		100	101	101	100	94.7	95	6	51-122/26
85-68-7	Butyl benzyl phthalate	ND		100	124	124	100	112	112	10	37-145/29
92-52-4	1,1'-Biphenyl	5.1		100	114	109	100	108	103	5	40-122/30
91-58-7	2-Chloronaphthalene	ND		100	82.0	82	100	78.3	78	5	36-108/30
106-47-8	4-Chloroaniline	ND		100	39.3	39	100	39.4	39	0	24-110/32
86-74-8	Carbazole	2.8		100	108	105	100	102	99	6	47-128/25
105-60-2	Caprolactam	ND		100	52.6	53	100	47.9	48	9	10-110/44
218-01-9	Chrysene	0.74	J	100	95.6	95	100	86.6	86	10	51-124/27
111-91-1	bis(2-Chloroethoxy)methane	ND		100	79.4	79	100	74.9	75	6	43-120/31
111-44-4	bis(2-Chloroethyl)ether	ND		100	91.0	91	100	81.0	81	12	33-115/34

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

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Job Number: JB70517

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
OP76142-MS	F36794.D	1	07/06/14	AD	07/03/14	OP76142	EF5726
OP76142-MSD	F36795.D	1	07/06/14	AD	07/03/14	OP76142	EF5726
JB70546-2	F36796.D	1	07/06/14	AD	07/03/14	OP76142	EF5726

The QC reported here applies to the following samples:

Method: SW846 8270D

JB70517-3, JB70517-4

CAS No.	Compound	JB70546-2 ug/l	Spike Q	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
108-60-1	bis(2-Chloroisopropyl)ether	ND	100	187	187* a	100	135	135* a	32	28-114/33
7005-72-3	4-Chlorophenyl phenyl ether	ND	100	97.9	98	100	91.6	92	7	46-118/29
121-14-2	2,4-Dinitrotoluene	ND	100	105	105	100	96.1	96	9	49-129/27
606-20-2	2,6-Dinitrotoluene	ND	100	105	105	100	94.4	94	11	52-129/26
91-94-1	3,3'-Dichlorobenzidine	ND	200	ND	0* a	200	ND	0* a	nc	14-119/33
123-91-1	1,4-Dioxane	ND	100	69.4	69	100	67.9	68	2	10-110/36
53-70-3	Dibenzo(a,h)anthracene	ND	100	104	104	100	94.0	94	10	49-130/28
132-64-9	Dibenzofuran	14.3	100	137	123* a	100	128	114	7	44-114/28
84-74-2	Di-n-butyl phthalate	ND	100	117	117	100	109	109	7	47-131/27
117-84-0	Di-n-octyl phthalate	ND	100	127	127	100	112	112	13	47-148/29
84-66-2	Diethyl phthalate	ND	100	106	106	100	96.1	96	10	32-131/29
131-11-3	Dimethyl phthalate	ND	100	101	101	100	92.2	92	9	26-132/33
117-81-7	bis(2-Ethylhexyl)phthalate	ND	100	131	131	100	119	119	10	48-144/27
206-44-0	Fluoranthene	6.5	100	112	106	100	105	99	6	51-123/27
86-73-7	Fluorene	12.2	100	135	123* a	100	127	115	6	50-116/26
118-74-1	Hexachlorobenzene	ND	100	90.2	90	100	85.1	85	6	45-123/26
87-68-3	Hexachlorobutadiene	ND	100	66.6	67	100	67.3	67	1	10-113/35
77-47-4	Hexachlorocyclopentadiene	ND	200	202	101	200	191	96	6	10-113/37
67-72-1	Hexachloroethane	ND	100	72.5	73	100	69.6	70	4	15-110/37
193-39-5	Indeno(1,2,3-cd)pyrene	ND	100	103	103	100	93.6	94	10	48-131/27
78-59-1	Isophorone	ND	100	79.7	80	100	74.7	75	6	42-119/30
91-57-6	2-Methylnaphthalene	12.1	100	118	106	100	114	102	3	22-120/32
88-74-4	2-Nitroaniline	ND	100	130	130	100	122	122	6	43-138/29
99-09-2	3-Nitroaniline	ND	100	69.2	69	100	63.3	63	9	34-116/26
100-01-6	4-Nitroaniline	ND	100	75.8	76	100	68.7	69	10	36-131/28
91-20-3	Naphthalene	85.2	100	454	369* a	100	448	363* a	1	25-108/32
98-95-3	Nitrobenzene	ND	100	80.1	80	100	76.1	76	5	29-128/32
621-64-7	N-Nitroso-di-n-propylamine	ND	100	99.1	99	100	89.6	90	10	35-120/31
86-30-6	N-Nitrosodiphenylamine	ND	100	106	106	100	101	101	5	46-120/26
85-01-8	Phenanthrene	24.7	100	161	136* a	100	154	129* a	4	51-117/25
129-00-0	Pyrene	4.3	100	106	102	100	94.9	91	11	45-130/29
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	100	90.1	90	100	85.6	86	5	29-109/31

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

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Job Number: JB70517

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
OP76142-MS	F36794.D	1	07/06/14	AD	07/03/14	OP76142	EF5726
OP76142-MSD	F36795.D	1	07/06/14	AD	07/03/14	OP76142	EF5726
JB70546-2	F36796.D	1	07/06/14	AD	07/03/14	OP76142	EF5726

The QC reported here applies to the following samples:

Method: SW846 8270D

JB70517-3, JB70517-4

CAS No.	Surrogate Recoveries	MS	MSD	JB70546-2	Limits
367-12-4	2-Fluorophenol	72%	66%	41%	10-110%
4165-62-2	Phenol-d5	66%	57%	32%	10-110%
118-79-6	2,4,6-Tribromophenol	115%	106%	20%* ^b	29-139%
4165-60-0	Nitrobenzene-d5	78%	74%	16%* ^b	28-131%
321-60-8	2-Fluorobiphenyl	89%	83%	21%* ^b	30-121%
1718-51-0	Terphenyl-d14	93%	84%	67%	16-147%

(a) Outside control limits due to matrix interference.

(b) There is no sample left to reextract for confirmation.

* = Outside of Control Limits.

Instrument Performance Check (DFTPP)

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Job Number: JB70517**Account:** LANGAN Langan Engineering & Environmental**Project:** Carroll Gardens, 363-365 Bond Street, Brooklyn, NY**Sample:** E2P1583-DFTPP**Injection Date:** 06/27/14**Lab File ID:** 2P37932.D**Injection Time:** 10:37**Instrument ID:** GCMS2P

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
51	30.0 - 60.0% of mass 198	172592	31.7	Pass
68	Less than 2.0% of mass 69	5074	0.93 (1.85) ^a	Pass
69	Mass 69 relative abundance	274705	50.4	Pass
70	Less than 2.0% of mass 69	1486	0.27 (0.54) ^a	Pass
127	40.0 - 60.0% of mass 198	280341	51.5	Pass
197	Less than 1.0% of mass 198	0	0.00	Pass
198	Base peak, 100% relative abundance	544875	100.0	Pass
199	5.0 - 9.0% of mass 198	36893	6.77	Pass
275	10.0 - 30.0% of mass 198	128184	23.5	Pass
365	1.0 - 100.0% of mass 198	17375	3.19	Pass
441	Present, but less than mass 443	66136	12.1 (87.5) ^b	Pass
442	40.0 - 100.0% of mass 198	399040	73.2	Pass
443	17.0 - 23.0% of mass 442	75547	13.9 (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
E2P1583-IC1583	2P37933.D	06/27/14	11:04	00:27	Initial cal 100
E2P1583-IC1583	2P37934.D	06/27/14	11:36	00:59	Initial cal 1
E2P1583-IC1583	2P37935.D	06/27/14	12:15	01:38	Initial cal 2
E2P1583-IC1583	2P37936.D	06/27/14	12:37	02:00	Initial cal 80
E2P1583-ICC1583	2P37937.D	06/27/14	13:00	02:23	Initial cal 50
E2P1583-IC1583	2P37938.D	06/27/14	14:06	03:29	Initial cal 25
E2P1583-IC1583	2P37939.D	06/27/14	14:29	03:52	Initial cal 10
E2P1583-IC1583	2P37940.D	06/27/14	14:52	04:15	Initial cal 5

Instrument Performance Check (DFTPP)

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Job Number: JB70517

Account: LANGAN Langan Engineering & Environmental

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

Sample: E2P1584-DFTPP

Injection Date: 06/27/14

Lab File ID: 2P37957.D

Injection Time: 15:27

Instrument ID: GCMS2P

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
51	30.0 - 60.0% of mass 198	158879	31.0	Pass
68	Less than 2.0% of mass 69	0	0.00 (0.00) ^a	Pass
69	Mass 69 relative abundance	252187	49.2	Pass
70	Less than 2.0% of mass 69	1371	0.27 (0.54) ^a	Pass
127	40.0 - 60.0% of mass 198	261683	51.0	Pass
197	Less than 1.0% of mass 198	0	0.00	Pass
198	Base peak, 100% relative abundance	512917	100.0	Pass
199	5.0 - 9.0% of mass 198	34526	6.73	Pass
275	10.0 - 30.0% of mass 198	125832	24.5	Pass
365	1.0 - 100.0% of mass 198	15675	3.06	Pass
441	Present, but less than mass 443	64955	12.7 (84.6) ^b	Pass
442	40.0 - 100.0% of mass 198	404309	78.8	Pass
443	17.0 - 23.0% of mass 442	76752	15.0 (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
E2P1584-IC1584	2P37942.D	06/27/14	15:40	00:13	Initial cal 100
E2P1584-ICC1584	2P37943.D	06/27/14	16:02	00:35	Initial cal 50
E2P1584-IC1584	2P37944.D	06/27/14	16:25	00:58	Initial cal 25
E2P1584-IC1584	2P37945.D	06/27/14	16:48	01:21	Initial cal 80
E2P1584-IC1584	2P37946.D	06/27/14	17:11	01:44	Initial cal 10
E2P1584-IC1584	2P37947.D	06/27/14	17:34	02:07	Initial cal 5
E2P1584-IC1584	2P37948.D	06/27/14	17:57	02:30	Initial cal 2
E2P1584-IC1584	2P37949.D	06/27/14	18:19	02:52	Initial cal 1
E2P1584-ICV1584	2P37951A.D	06/27/14	19:05	03:38	Initial cal verification 50
E2P1584-ICV1583	2P37951.D	06/27/14	19:05	03:38	Initial cal verification 50
E2P1584-ICV1583	2P37952.D	06/27/14	19:28	04:01	Initial cal verification 50
E2P1584-ICV1583	2P37953.D	06/27/14	19:51	04:24	Initial cal verification 50
E2P1584-ICV1583	2P37954.D	06/27/14	20:14	04:47	Initial cal verification 50
E2P1584-ICV1583	2P37955A.D	06/27/14	20:36	05:09	Initial cal verification 50
E2P1584-ICV1584	2P37955.D	06/27/14	20:36	05:09	Initial cal verification 50
E2P1584-ICV1584	2P37956.D	06/27/14	20:59	05:32	Initial cal verification 50

Instrument Performance Check (DFTPP)

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Job Number: JB70517**Account:** LANGAN Langan Engineering & Environmental**Project:** Carroll Gardens, 363-365 Bond Street, Brooklyn, NY**Sample:** E2P1585-DFTPP**Injection Date:** 06/30/14**Lab File ID:** 2P37958.D**Injection Time:** 09:10**Instrument ID:** GCMS2P

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
51	30.0 - 60.0% of mass 198	193799	31.3	Pass
68	Less than 2.0% of mass 69	0	0.00 (0.00) ^a	Pass
69	Mass 69 relative abundance	303830	49.1	Pass
70	Less than 2.0% of mass 69	1271	0.21 (0.42) ^a	Pass
127	40.0 - 60.0% of mass 198	314575	50.9	Pass
197	Less than 1.0% of mass 198	1863	0.30	Pass
198	Base peak, 100% relative abundance	618624	100.0	Pass
199	5.0 - 9.0% of mass 198	42707	6.90	Pass
275	10.0 - 30.0% of mass 198	145672	23.5	Pass
365	1.0 - 100.0% of mass 198	18280	2.95	Pass
441	Present, but less than mass 443	74088	12.0 (94.3) ^b	Pass
442	40.0 - 100.0% of mass 198	423787	68.5	Pass
443	17.0 - 23.0% of mass 442	78565	12.7 (18.5) ^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
E2P1585-ICV1583	2P37961A.D	06/30/14	09:29	00:19	Initial cal verification 50
E2P1585-ICV1584	2P37961.D	06/30/14	09:29	00:19	Initial cal verification 50

8.4.3

8

Instrument Performance Check (DFTPP)

Job Number: JB70517

Account: LANGAN Langan Engineering & Environmental

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

Sample: E2P1594-DFTPP

Injection Date: 07/05/14

Lab File ID: 2P38158.D

Injection Time: 11:27

Instrument ID: GCMS2P

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
51	30.0 - 60.0% of mass 198	427779	32.1	Pass
68	Less than 2.0% of mass 69	5382	0.40 (0.87) ^a	Pass
69	Mass 69 relative abundance	618009	46.3	Pass
70	Less than 2.0% of mass 69	4441	0.33 (0.72) ^a	Pass
127	40.0 - 60.0% of mass 198	696579	52.2	Pass
197	Less than 1.0% of mass 198	0	0.00	Pass
198	Base peak, 100% relative abundance	1334251	100.0	Pass
199	5.0 - 9.0% of mass 198	89536	6.71	Pass
275	10.0 - 30.0% of mass 198	320469	24.0	Pass
365	1.0 - 100.0% of mass 198	41707	3.13	Pass
441	Present, but less than mass 443	128251	9.61 (82.6) ^b	Pass
442	40.0 - 100.0% of mass 198	802112	60.1	Pass
443	17.0 - 23.0% of mass 442	155296	11.6 (19.4) ^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
E2P1594-CC1583	2P38159.D	07/05/14	11:36	00:09	Continuing cal 50
E2P1594-CC1584	2P38161.D	07/05/14	12:03	00:36	Continuing cal 50
OP76077-MB1	2P38164.D	07/05/14	13:12	01:45	Method Blank
OP76077-BS1	2P38165.D	07/05/14	13:34	02:07	Blank Spike
OP75731A-MB1	2P38166.D	07/05/14	13:55	02:28	Method Blank
OP75731A-BS1	2P38167.D	07/05/14	14:17	02:50	Blank Spike
ZZZZZZ	2P38186.D	07/05/14	14:38	03:11	(unrelated sample)
ZZZZZZ	2P38187.D	07/05/14	15:00	03:33	(unrelated sample)
ZZZZZZ	2P38189.D	07/05/14	15:43	04:16	(unrelated sample)
ZZZZZZ	2P38168.D	07/05/14	16:05	04:38	(unrelated sample)
ZZZZZZ	2P38169.D	07/05/14	16:26	04:59	(unrelated sample)
ZZZZZZ	2P38170.D	07/05/14	16:48	05:21	(unrelated sample)
ZZZZZZ	2P38171.D	07/05/14	17:10	05:43	(unrelated sample)
ZZZZZZ	2P38172.D	07/05/14	17:31	06:04	(unrelated sample)
ZZZZZZ	2P38173.D	07/05/14	17:53	06:26	(unrelated sample)
JB70517-1	2P38174.D	07/05/14	18:14	06:47	414-PE-30
JB70517-2	2P38175.D	07/05/14	18:36	07:09	415-PE-13
ZZZZZZ	2P38176.D	07/05/14	18:57	07:30	(unrelated sample)
ZZZZZZ	2P38177.D	07/05/14	19:19	07:52	(unrelated sample)

Instrument Performance Check (DFTPP)

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Job Number: JB70517

Account: LANGAN Langan Engineering & Environmental

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

Sample: E2P1594-DFTPP

Injection Date: 07/05/14

Lab File ID: 2P38158.D

Injection Time: 11:27

Instrument ID: GCMS2P

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	2P38178.D	07/05/14	19:41	08:14	(unrelated sample)
ZZZZZZ	2P38179.D	07/05/14	20:02	08:35	(unrelated sample)
ZZZZZZ	2P38180.D	07/05/14	20:24	08:57	(unrelated sample)
ZZZZZZ	2P38181.D	07/05/14	20:45	09:18	(unrelated sample)
ZZZZZZ	2P38182.D	07/05/14	21:07	09:40	(unrelated sample)
ZZZZZZ	2P38183.D	07/05/14	21:28	10:01	(unrelated sample)
OP76077-MS	2P38184.D	07/05/14	21:50	10:23	Matrix Spike
OP76077-MSD	2P38185.D	07/05/14	22:12	10:45	Matrix Spike Duplicate

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Instrument Performance Check (DFTPP)

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Job Number: JB70517**Account:** LANGAN Langan Engineering & Environmental**Project:** Carroll Gardens, 363-365 Bond Street, Brooklyn, NY**Sample:** E6P357-DFTPP**Injection Date:** 06/26/14**Lab File ID:** 6P8272.D**Injection Time:** 14:55**Instrument ID:** GCMS6P

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
51	30.0 - 60.0% of mass 198	42873	39.6	Pass
68	Less than 2.0% of mass 69	807	0.75 (1.64) ^a	Pass
69	Mass 69 relative abundance	49257	45.5	Pass
70	Less than 2.0% of mass 69	0	0.00 (0.00) ^a	Pass
127	40.0 - 60.0% of mass 198	54181	50.0	Pass
197	Less than 1.0% of mass 198	865	0.80	Pass
198	Base peak, 100% relative abundance	108309	100.0	Pass
199	5.0 - 9.0% of mass 198	7564	6.98	Pass
275	10.0 - 30.0% of mass 198	25824	23.8	Pass
365	1.0 - 100.0% of mass 198	3072	2.84	Pass
441	Present, but less than mass 443	12025	11.1 (71.6) ^b	Pass
442	40.0 - 100.0% of mass 198	85371	78.8	Pass
443	17.0 - 23.0% of mass 442	16799	15.5 (19.7) ^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
E6P357-IC357	6P8273.D	06/26/14	15:08	00:13	Initial cal 100
E6P357-IC357	6P8274.D	06/26/14	15:36	00:41	Initial cal 1
E6P357-IC357	6P8275.D	06/26/14	16:04	01:09	Initial cal 80
E6P357-IC357	6P8276.D	06/26/14	16:33	01:38	Initial cal 10
E6P357-ICC357	6P8277.D	06/26/14	17:01	02:06	Initial cal 50
E6P357-IC357	6P8278.D	06/26/14	17:29	02:34	Initial cal 5
E6P357-IC357	6P8279.D	06/26/14	17:58	03:03	Initial cal 2
E6P357-IC357	6P8280.D	06/26/14	18:25	03:30	Initial cal 25

Instrument Performance Check (DFTPP)

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Job Number: JB70517**Account:** LANGAN Langan Engineering & Environmental**Project:** Carroll Gardens, 363-365 Bond Street, Brooklyn, NY**Sample:** E6P358-DFTPP**Injection Date:** 06/26/14**Lab File ID:** 6P8281.D**Injection Time:** 18:48**Instrument ID:** GCMS6P

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
51	30.0 - 60.0% of mass 198	55737	38.9	Pass
68	Less than 2.0% of mass 69	1030	0.72 (1.65) ^a	Pass
69	Mass 69 relative abundance	62368	43.5	Pass
70	Less than 2.0% of mass 69	439	0.31 (0.70) ^a	Pass
127	40.0 - 60.0% of mass 198	67653	47.2	Pass
197	Less than 1.0% of mass 198	714	0.50	Pass
198	Base peak, 100% relative abundance	143371	100.0	Pass
199	5.0 - 9.0% of mass 198	9456	6.60	Pass
275	10.0 - 30.0% of mass 198	35560	24.8	Pass
365	1.0 - 100.0% of mass 198	4377	3.05	Pass
441	Present, but less than mass 443	18287	12.8 (73.9) ^b	Pass
442	40.0 - 100.0% of mass 198	130093	90.7	Pass
443	17.0 - 23.0% of mass 442	24733	17.3 (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
E6P358-IC358	6P8282.D	06/26/14	19:01	00:13	Initial cal 100
E6P358-IC358	6P8283.D	06/26/14	19:30	00:42	Initial cal 1
E6P358-IC358	6P8284.D	06/26/14	19:58	01:10	Initial cal 80
E6P358-IC358	6P8285.D	06/26/14	20:26	01:38	Initial cal 10
E6P358-ICC358	6P8286.D	06/26/14	20:54	02:06	Initial cal 50
E6P358-IC358	6P8287.D	06/26/14	21:23	02:35	Initial cal 5
E6P358-IC358	6P8288.D	06/26/14	21:51	03:03	Initial cal 2
E6P358-IC358	6P8289.D	06/26/14	22:19	03:31	Initial cal 25
E6P358-ICV357	6P8290.D	06/26/14	22:47	03:59	Initial cal verification 50
E6P358-ICV358	6P8291A.D	06/26/14	23:15	04:27	Initial cal verification 50
E6P358-ICV357	6P8291.D	06/26/14	23:15	04:27	Initial cal verification 50
E6P358-ICV357	6P8292B.D	06/26/14	23:44	04:56	Initial cal verification 50
E6P358-ICV358	6P8292A.D	06/26/14	23:44	04:56	Initial cal verification 50
E6P358-ICV357	6P8293.D	06/27/14	00:12	05:24	Initial cal verification 50
E6P358-ICV358	6P8294A.D	06/27/14	00:40	05:52	Initial cal verification 50
E6P358-ICV357	6P8294.D	06/27/14	00:40	05:52	Initial cal verification 50
E6P358-ICV358	6P8295.D	06/27/14	01:08	06:20	Initial cal verification 50
E6P358-ICV357	6P8296.D	06/27/14	01:36	06:48	Initial cal verification 50

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Instrument Performance Check (DFTPP)**Job Number:** JB70517**Account:** LANGAN Langan Engineering & Environmental**Project:** Carroll Gardens, 363-365 Bond Street, Brooklyn, NY**Sample:** E6P364-DFTPP**Injection Date:** 07/02/14**Lab File ID:** 6P8433.D**Injection Time:** 21:40**Instrument ID:** GCMS6P

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
51	30.0 - 60.0% of mass 198	44556	42.9	Pass
68	Less than 2.0% of mass 69	559	0.54 (1.14) ^a	Pass
69	Mass 69 relative abundance	48837	47.1	Pass
70	Less than 2.0% of mass 69	141	0.14 (0.29) ^a	Pass
127	40.0 - 60.0% of mass 198	52550	50.6	Pass
197	Less than 1.0% of mass 198	250	0.24	Pass
198	Base peak, 100% relative abundance	103787	100.0	Pass
199	5.0 - 9.0% of mass 198	6875	6.62	Pass
275	10.0 - 30.0% of mass 198	26329	25.4	Pass
365	1.0 - 100.0% of mass 198	3379	3.26	Pass
441	Present, but less than mass 443	12962	12.5 (74.4) ^b	Pass
442	40.0 - 100.0% of mass 198	89651	86.4	Pass
443	17.0 - 23.0% of mass 442	17424	16.8 (19.4) ^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
E6P364-CC357	6P8434.D	07/02/14	21:59	00:19	Continuing cal 25
E6P364-CC358	6P8435.D	07/02/14	22:27	00:47	Continuing cal 25
OP76128-MB1	6P8437.D	07/02/14	23:25	01:45	Method Blank
OP76128-BS1	6P8438.D	07/02/14	23:53	02:13	Blank Spike
OP76128-BSD	6P8439.D	07/03/14	00:22	02:42	Blank Spike Duplicate
OP76077-MB1	6P8440.D	07/03/14	00:50	03:10	Method Blank
OP76077-BS1	6P8441.D	07/03/14	01:18	03:38	Blank Spike
OP76123-MB1	6P8442.D	07/03/14	01:47	04:07	Method Blank
ZZZZZZ	6P8443.D	07/03/14	02:15	04:35	(unrelated sample)
ZZZZZZ	6P8444.D	07/03/14	02:43	05:03	(unrelated sample)
ZZZZZZ	6P8445.D	07/03/14	03:11	05:31	(unrelated sample)
ZZZZZZ	6P8447.D	07/03/14	04:08	06:28	(unrelated sample)
ZZZZZZ	6P8448.D	07/03/14	04:36	06:56	(unrelated sample)
ZZZZZZ	6P8449.D	07/03/14	05:03	07:23	(unrelated sample)
ZZZZZZ	6P8451.D	07/03/14	05:59	08:19	(unrelated sample)
ZZZZZZ	6P8452.D	07/03/14	06:28	08:48	(unrelated sample)
ZZZZZZ	6P8453.D	07/03/14	06:55	09:15	(unrelated sample)
ZZZZZZ	6P8454.D	07/03/14	07:24	09:44	(unrelated sample)
ZZZZZZ	6P8455.D	07/03/14	07:52	10:12	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JB70517
Account: LANGAN Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Sample:	E6P364-DFTPP	Injection Date:	07/02/14
Lab File ID:	6P8433.D	Injection Time:	21:40
Instrument ID:	GCMS6P		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	6P8456.D	07/03/14	08:20	10:40	(unrelated sample)
ZZZZZZ	6P8457.D	07/03/14	08:48	11:08	(unrelated sample)
ZZZZZZ	6P8458.D	07/03/14	09:16	11:36	(unrelated sample)

Instrument Performance Check (DFTPP)

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Job Number: JB70517**Account:** LANGAN Langan Engineering & Environmental**Project:** Carroll Gardens, 363-365 Bond Street, Brooklyn, NY**Sample:** E6P368-DFTPP**Injection Date:** 07/08/14**Lab File ID:** 6P8540.D**Injection Time:** 10:47**Instrument ID:** GCMS6P

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
51	30.0 - 60.0% of mass 198	45007	41.6	Pass
68	Less than 2.0% of mass 69	872	0.81 (1.74) ^a	Pass
69	Mass 69 relative abundance	50189	46.4	Pass
70	Less than 2.0% of mass 69	225	0.21 (0.45) ^a	Pass
127	40.0 - 60.0% of mass 198	54492	50.4	Pass
197	Less than 1.0% of mass 198	411	0.38	Pass
198	Base peak, 100% relative abundance	108160	100.0	Pass
199	5.0 - 9.0% of mass 198	7414	6.85	Pass
275	10.0 - 30.0% of mass 198	28329	26.2	Pass
365	1.0 - 100.0% of mass 198	3721	3.44	Pass
441	Present, but less than mass 443	12555	11.6 (71.8) ^b	Pass
442	40.0 - 100.0% of mass 198	91584	84.7	Pass
443	17.0 - 23.0% of mass 442	17484	16.2 (19.1) ^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
E6P368-CC357	6P8541.D	07/08/14	10:59	00:12	Continuing cal 25
E6P368-CC358	6P8542.D	07/08/14	11:44	00:57	Continuing cal 25
OP76142-MB1	6P8544.D	07/08/14	12:40	01:53	Method Blank
ZZZZZZ	6P8545.D	07/08/14	13:08	02:21	(unrelated sample)
ZZZZZZ	6P8546.D	07/08/14	13:37	02:50	(unrelated sample)
ZZZZZZ	6P8547.D	07/08/14	14:05	03:18	(unrelated sample)
ZZZZZZ	6P8548.D	07/08/14	14:33	03:46	(unrelated sample)
ZZZZZZ	6P8549.D	07/08/14	15:01	04:14	(unrelated sample)

Instrument Performance Check (DFTPP)

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Job Number: JB70517

Account: LANGAN Langan Engineering & Environmental

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

Sample: EF5692-DFTPP

Injection Date: 06/11/14

Lab File ID: F35905.D

Injection Time: 20:23

Instrument ID: GCMSF

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
51	30.0 - 60.0% of mass 198	20813	35.7	Pass
68	Less than 2.0% of mass 69	0	0.00 (0.00) ^a	Pass
69	Mass 69 relative abundance	25234	43.3	Pass
70	Less than 2.0% of mass 69	143	0.25 (0.57) ^a	Pass
127	40.0 - 60.0% of mass 198	32378	55.5	Pass
197	Less than 1.0% of mass 198	0	0.00	Pass
198	Base peak, 100% relative abundance	58298	100.0	Pass
199	5.0 - 9.0% of mass 198	4043	6.94	Pass
275	10.0 - 30.0% of mass 198	12104	20.8	Pass
365	1.0 - 100.0% of mass 198	1588	2.72	Pass
441	Present, but less than mass 443	5976	10.3 (78.8) ^b	Pass
442	40.0 - 100.0% of mass 198	38349	65.8	Pass
443	17.0 - 23.0% of mass 442	7588	13.0 (19.8) ^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
EF5692-ICC5692	F35906.D	06/11/14	20:36	00:13	Initial cal 50
EF5692-IC5692	F35907.D	06/11/14	21:05	00:42	Initial cal 25
EF5692-IC5692	F35908.D	06/11/14	21:35	01:12	Initial cal 100
EF5692-IC5692	F35909.D	06/11/14	22:04	01:41	Initial cal 80
EF5692-IC5692	F35910.D	06/11/14	22:33	02:10	Initial cal 10
EF5692-IC5692	F35911.D	06/11/14	23:02	02:39	Initial cal 5
EF5692-IC5692	F35912.D	06/11/14	23:32	03:09	Initial cal 2
EF5692-IC5692	F35913.D	06/12/14	00:01	03:38	Initial cal 1

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Instrument Performance Check (DFTPP)

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Job Number: JB70517

Account: LANGAN Langan Engineering & Environmental

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

Sample: EF5693-DFTPP

Injection Date: 06/12/14

Lab File ID: F35914.D

Injection Time: 08:50

Instrument ID: GCMSF

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
51	30.0 - 60.0% of mass 198	25505	35.6	Pass
68	Less than 2.0% of mass 69	254	0.35 (0.80) ^a	Pass
69	Mass 69 relative abundance	31648	44.2	Pass
70	Less than 2.0% of mass 69	153	0.21 (0.48) ^a	Pass
127	40.0 - 60.0% of mass 198	39592	55.2	Pass
197	Less than 1.0% of mass 198	54	0.08	Pass
198	Base peak, 100% relative abundance	71669	100.0	Pass
199	5.0 - 9.0% of mass 198	5085	7.10	Pass
275	10.0 - 30.0% of mass 198	15287	21.3	Pass
365	1.0 - 100.0% of mass 198	1838	2.56	Pass
441	Present, but less than mass 443	7950	11.1 (77.5) ^b	Pass
442	40.0 - 100.0% of mass 198	50114	69.9	Pass
443	17.0 - 23.0% of mass 442	10255	14.3 (20.5) ^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
EF5693-ICC5693	F35915.D	06/12/14	09:02	00:12	Initial cal 50
EF5693-IC5693	F35916.D	06/12/14	09:30	00:40	Initial cal 25
EF5693-IC5693	F35917.D	06/12/14	09:59	01:09	Initial cal 100
EF5693-IC5693	F35918.D	06/12/14	10:28	01:38	Initial cal 80
EF5693-IC5693	F35919.D	06/12/14	10:57	02:07	Initial cal 10
EF5693-IC5693	F35920.D	06/12/14	11:26	02:36	Initial cal 5
EF5693-IC5693	F35921.D	06/12/14	11:55	03:05	Initial cal 2
EF5693-IC5693	F35922.D	06/12/14	12:24	03:34	Initial cal 1
EF5693-ICV5693	F35924A.D	06/12/14	13:22	04:32	Initial cal verification 50
EF5693-ICV5692	F35924.D	06/12/14	13:22	04:32	Initial cal verification 50
EF5693-ICV5692	F35925.D	06/12/14	13:51	05:01	Initial cal verification 50
EF5693-ICV5693	F35925A.D	06/12/14	13:51	05:01	Initial cal verification 50
EF5693-ICV5692	F35926.D	06/12/14	14:20	05:30	Initial cal verification 50
EF5693-ICV5692	F35927.D	06/12/14	14:49	05:59	Initial cal verification 50
EF5693-ICV5692	F35928.D	06/12/14	15:18	06:28	Initial cal verification 50
EF5693-ICV5693	F35928A.D	06/12/14	15:18	06:28	Initial cal verification 50

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Instrument Performance Check (DFTPP)

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Job Number: JB70517**Account:** LANGAN Langan Engineering & Environmental**Project:** Carroll Gardens, 363-365 Bond Street, Brooklyn, NY**Sample:** EF5695-DFTPP**Injection Date:** 06/13/14**Lab File ID:** F35955.D**Injection Time:** 07:31**Instrument ID:** GCMSF

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
51	30.0 - 60.0% of mass 198	14273	31.6	Pass
68	Less than 2.0% of mass 69	0	0.00 (0.00) ^a	Pass
69	Mass 69 relative abundance	17948	39.8	Pass
70	Less than 2.0% of mass 69	121	0.27 (0.67) ^a	Pass
127	40.0 - 60.0% of mass 198	23496	52.1	Pass
197	Less than 1.0% of mass 198	0	0.00	Pass
198	Base peak, 100% relative abundance	45120	100.0	Pass
199	5.0 - 9.0% of mass 198	3091	6.85	Pass
275	10.0 - 30.0% of mass 198	9685	21.5	Pass
365	1.0 - 100.0% of mass 198	1281	2.84	Pass
441	Present, but less than mass 443	5493	12.2 (77.6) ^b	Pass
442	40.0 - 100.0% of mass 198	35133	77.9	Pass
443	17.0 - 23.0% of mass 442	7083	15.7 (20.2) ^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
EF5695-ICV5692	F35957.D	06/13/14	08:24	00:53	Initial cal verification 50
EF5695-ICV5693	F35958.D	06/13/14	08:54	01:23	Initial cal verification 50

Instrument Performance Check (DFTPP)**Job Number:** JB70517**Account:** LANGAN Langan Engineering & Environmental**Project:** Carroll Gardens, 363-365 Bond Street, Brooklyn, NY**Sample:** EF5702-DFTPP**Injection Date:** 06/18/14**Lab File ID:** F36117.D**Injection Time:** 20:02**Instrument ID:** GCMSF

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
51	30.0 - 60.0% of mass 198	13983	32.3	Pass
68	Less than 2.0% of mass 69	183	0.42 (0.97) ^a	Pass
69	Mass 69 relative abundance	18832	43.6	Pass
70	Less than 2.0% of mass 69	0	0.00 (0.00) ^a	Pass
127	40.0 - 60.0% of mass 198	23256	53.8	Pass
197	Less than 1.0% of mass 198	0	0.00	Pass
198	Base peak, 100% relative abundance	43232	100.0	Pass
199	5.0 - 9.0% of mass 198	2958	6.84	Pass
275	10.0 - 30.0% of mass 198	9565	22.1	Pass
365	1.0 - 100.0% of mass 198	1150	2.66	Pass
441	Present, but less than mass 443	5028	11.6 (82.3) ^b	Pass
442	40.0 - 100.0% of mass 198	31391	72.6	Pass
443	17.0 - 23.0% of mass 442	6109	14.1 (19.5) ^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
EF5702-IC5702	F36118.D	06/18/14	20:25	00:23	Initial cal 100
EF5702-IC5702	F36119.D	06/18/14	20:53	00:51	Initial cal 80
EF5702-ICC5702	F36120.D	06/18/14	21:22	01:20	Initial cal 50
EF5702-IC5702	F36121.D	06/18/14	21:50	01:48	Initial cal 25
EF5702-IC5702	F36122.D	06/18/14	22:19	02:17	Initial cal 10
EF5702-IC5702	F36123.D	06/18/14	22:47	02:45	Initial cal 5
EF5702-IC5702	F36124.D	06/18/14	23:16	03:14	Initial cal 2
EF5702-IC5702	F36125.D	06/18/14	23:44	03:42	Initial cal 1
EF5702-IC5702	F36126.D	06/19/14	00:13	04:11	Initial cal 100
EF5702-IC5702	F36127.D	06/19/14	00:41	04:39	Initial cal 80
EF5702-IC5702	F36128.D	06/19/14	01:09	05:07	Initial cal 50
EF5702-IC5702	F36129.D	06/19/14	01:38	05:36	Initial cal 25
EF5702-IC5702	F36130.D	06/19/14	02:06	06:04	Initial cal 10
EF5702-IC5702	F36131.D	06/19/14	02:34	06:32	Initial cal 5
EF5702-IC5702	F36132.D	06/19/14	03:03	07:01	Initial cal 2
EF5702-IC5702	F36133.D	06/19/14	03:31	07:29	Initial cal 1
EF5702-ICV5702	F36134.D	06/19/14	03:59	07:57	Initial cal verification 50
EF5702-ICV5702	F36136.D	06/19/14	04:56	08:54	Initial cal verification 50
EF5702-ICV5702	F36137.D	06/19/14	05:24	09:22	Initial cal verification 50

Instrument Performance Check (DFTPP)

Page 2 of 2

Job Number: JB70517

Account: LANGAN Langan Engineering & Environmental

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

Sample: EF5702-DFTPP

Injection Date: 06/18/14

Lab File ID: F36117.D

Injection Time: 20:02

Instrument ID: GCMSF

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EF5702-ICV5702	F36138.D	06/19/14	05:53	09:51	Initial cal verification 50
EF5702-ICV5702	F36139.D	06/19/14	06:21	10:19	Initial cal verification 50

8.4.12

8

Instrument Performance Check (DFTPP)**Job Number:** JB70517**Account:** LANGAN Langan Engineering & Environmental**Project:** Carroll Gardens, 363-365 Bond Street, Brooklyn, NY**Sample:** EF5726-DFTPP**Injection Date:** 07/06/14**Lab File ID:** F36783.D**Injection Time:** 13:28**Instrument ID:** GCMSF

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
51	30.0 - 60.0% of mass 198	31882	34.5	Pass
68	Less than 2.0% of mass 69	657	0.71 (1.63) ^a	Pass
69	Mass 69 relative abundance	40339	43.6	Pass
70	Less than 2.0% of mass 69	117	0.13 (0.29) ^a	Pass
127	40.0 - 60.0% of mass 198	49365	53.4	Pass
197	Less than 1.0% of mass 198	0	0.00	Pass
198	Base peak, 100% relative abundance	92514	100.0	Pass
199	5.0 - 9.0% of mass 198	6224	6.73	Pass
275	10.0 - 30.0% of mass 198	20600	22.3	Pass
365	1.0 - 100.0% of mass 198	2509	2.71	Pass
441	Present, but less than mass 443	11831	12.8 (81.9) ^b	Pass
442	40.0 - 100.0% of mass 198	74954	81.0	Pass
443	17.0 - 23.0% of mass 442	14441	15.6 (19.3) ^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
EF5726-CC5692	F36785.D	07/06/14	14:08	00:40	Continuing cal 50
EF5726-CC5693	F36786.D	07/06/14	14:37	01:09	Continuing cal 50
EF5726-CC5702	F36787.D	07/06/14	15:06	01:38	Continuing cal 50
EF5726-CC5702	F36788.D	07/06/14	15:35	02:07	Continuing cal 50
OP76072-MB1	F36789.D	07/06/14	16:04	02:36	Method Blank
OP76072-BS1	F36790.D	07/06/14	16:32	03:04	Blank Spike
OP76072-BS13	F36791.D	07/06/14	17:01	03:33	Blank Spike
OP76142-MB1	F36792.D	07/06/14	17:29	04:01	Method Blank
OP76142-BS1	F36793.D	07/06/14	17:58	04:30	Blank Spike
OP76142-MS	F36794.D	07/06/14	18:27	04:59	Matrix Spike
OP76142-MSD	F36795.D	07/06/14	18:56	05:28	Matrix Spike Duplicate
JB70546-2	F36796.D	07/06/14	19:25	05:57	(used for QC only; not part of job JB70517)
JB70517-3	F36797.D	07/06/14	19:54	06:26	416-FB-20
JB70517-4	F36798.D	07/06/14	20:23	06:55	417-FB-21
ZZZZZZ	F36799.D	07/06/14	20:52	07:24	(unrelated sample)
ZZZZZZ	F36800.D	07/06/14	21:21	07:53	(unrelated sample)
ZZZZZZ	F36801.D	07/06/14	21:50	08:22	(unrelated sample)
ZZZZZZ	F36803.D	07/06/14	22:47	09:19	(unrelated sample)
ZZZZZZ	F36804.D	07/06/14	23:16	09:48	(unrelated sample)

Instrument Performance Check (DFTPP)

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Job Number: JB70517

Account: LANGAN Langan Engineering & Environmental

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

Sample: EF5726-DFTPP

Injection Date: 07/06/14

Lab File ID: F36783.D

Injection Time: 13:28

Instrument ID: GCMSF

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	F36805.D	07/06/14	23:45	10:17	(unrelated sample)
ZZZZZZ	F36806.D	07/07/14	00:14	10:46	(unrelated sample)
ZZZZZZ	F36807.D	07/07/14	00:43	11:15	(unrelated sample)
JB70615-3	F36808.D	07/07/14	01:12	11:44	(used for QC only; not part of job JB70517)
OP76072-MS	F36811.D	07/07/14	02:38	13:10	Matrix Spike
OP76072-MSD	F36812.D	07/07/14	03:07	13:39	Matrix Spike Duplicate
JB70341-3	F36813.D	07/07/14	03:36	14:08	(used for QC only; not part of job JB70517)
ZZZZZZ	F36814.D	07/07/14	04:05	14:37	(unrelated sample)
ZZZZZZ	F36815.D	07/07/14	04:34	15:06	(unrelated sample)

8.4.13

8

Instrument Performance Check (DFTPP)

Page 1 of 1

Job Number: JB70517**Account:** LANGAN Langan Engineering & Environmental**Project:** Carroll Gardens, 363-365 Bond Street, Brooklyn, NY**Sample:** EZ4614-DFTPP**Injection Date:** 06/23/14**Lab File ID:** Z92842.D**Injection Time:** 14:00**Instrument ID:** GCMSZ

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
51	30.0 - 60.0% of mass 198	32604	35.2	Pass
68	Less than 2.0% of mass 69	72	0.08 (0.20) ^a	Pass
69	Mass 69 relative abundance	36887	39.8	Pass
70	Less than 2.0% of mass 69	132	0.14 (0.36) ^a	Pass
127	40.0 - 60.0% of mass 198	48108	51.9	Pass
197	Less than 1.0% of mass 198	47	0.05	Pass
198	Base peak, 100% relative abundance	92726	100.0	Pass
199	5.0 - 9.0% of mass 198	6037	6.51	Pass
275	10.0 - 30.0% of mass 198	23643	25.5	Pass
365	1.0 - 100.0% of mass 198	4829	5.21	Pass
441	Present, but less than mass 443	12728	13.7 (73.3) ^b	Pass
442	40.0 - 100.0% of mass 198	92528	99.8	Pass
443	17.0 - 23.0% of mass 442	17376	18.7 (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
EZ4614-IC4614	Z92843A.D	06/23/14	14:11	00:11	Initial cal 100
EZ4614-IC4614	Z92844.D	06/23/14	14:37	00:37	Initial cal 80
EZ4614-ICC4614	Z92845.D	06/23/14	15:03	01:03	Initial cal 50
EZ4614-IC4614	Z92846.D	06/23/14	15:29	01:29	Initial cal 25
EZ4614-IC4614	Z92847.D	06/23/14	15:55	01:55	Initial cal 10
EZ4614-IC4614	Z92848.D	06/23/14	16:21	02:21	Initial cal 5
EZ4614-IC4614	Z92849.D	06/23/14	16:46	02:46	Initial cal 2
EZ4614-IC4614	Z92850.D	06/23/14	17:12	03:12	Initial cal 1
EZ4614-ICV4614	Z92853.D	06/23/14	18:30	04:30	Initial cal verification 50
EZ4614-ICV4614	Z92855.D	06/23/14	19:21	05:21	Initial cal verification 50
EZ4614-ICV4614	Z92856.D	06/23/14	19:47	05:47	Initial cal verification 50

Instrument Performance Check (DFTPP)

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Job Number: JB70517

Account: LANGAN Langan Engineering & Environmental

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

Sample: EZ4615-DFTPP

Injection Date: 06/24/14

Lab File ID: Z92861.D

Injection Time: 11:23

Instrument ID: GCMSZ

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
51	30.0 - 60.0% of mass 198	30743	40.6	Pass
68	Less than 2.0% of mass 69	129	0.17 (0.39) ^a	Pass
69	Mass 69 relative abundance	33090	43.7	Pass
70	Less than 2.0% of mass 69	73	0.10 (0.22) ^a	Pass
127	40.0 - 60.0% of mass 198	41680	55.1	Pass
197	Less than 1.0% of mass 198	0	0.00	Pass
198	Base peak, 100% relative abundance	75682	100.0	Pass
199	5.0 - 9.0% of mass 198	4679	6.18	Pass
275	10.0 - 30.0% of mass 198	18031	23.8	Pass
365	1.0 - 100.0% of mass 198	4376	5.78	Pass
441	Present, but less than mass 443	10077	13.3 (79.3) ^b	Pass
442	40.0 - 100.0% of mass 198	63669	84.1	Pass
443	17.0 - 23.0% of mass 442	12704	16.8 (20.0) ^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
EZ4615-ICC4615	Z92862.D	06/24/14	11:35	00:12	Initial cal 50
EZ4615-IC4615	Z92863.D	06/24/14	12:01	00:38	Initial cal 100
EZ4615-IC4615	Z92864.D	06/24/14	12:27	01:04	Initial cal 1
EZ4615-IC4615	Z92865.D	06/24/14	12:53	01:30	Initial cal 2
EZ4615-IC4615	Z92866.D	06/24/14	13:18	01:55	Initial cal 5
EZ4615-IC4615	Z92867.D	06/24/14	13:44	02:21	Initial cal 10
EZ4615-IC4615	Z92868.D	06/24/14	14:36	03:13	Initial cal 25
EZ4615-IC4615	Z92869.D	06/24/14	15:02	03:39	Initial cal 80
EZ4615-ICV4615	Z92870.D	06/24/14	15:28	04:05	Initial cal verification 50
EZ4615-ICV4615	Z92871A.D	06/24/14	15:56	04:33	Initial cal verification 50
EZ4615-ICV4615	Z92872.D	06/24/14	16:23	05:00	Initial cal verification 50
EZ4615-ICV4615	Z92873.D	06/24/14	16:49	05:26	Initial cal verification 50
EZ4615-ICV4615	Z92874.D	06/24/14	17:16	05:53	Initial cal verification 50
EZ4615-ICV4615	Z92878.D	06/24/14	17:43	06:20	Initial cal verification 100

8.4.15
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Instrument Performance Check (DFTPP)

Job Number: JB70517

Account: LANGAN Langan Engineering & Environmental

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

Sample: EZ4640-DFTPP

Injection Date: 07/11/14

Lab File ID: Z93534.D

Injection Time: 22:25

Instrument ID: GCMSZ

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
51	30.0 - 60.0% of mass 198	23669	34.4	Pass
68	Less than 2.0% of mass 69	139	0.20 (0.46) ^a	Pass
69	Mass 69 relative abundance	29924	43.5	Pass
70	Less than 2.0% of mass 69	160	0.23 (0.53) ^a	Pass
127	40.0 - 60.0% of mass 198	35206	51.2	Pass
197	Less than 1.0% of mass 198	442	0.64	Pass
198	Base peak, 100% relative abundance	68757	100.0	Pass
199	5.0 - 9.0% of mass 198	4897	7.12	Pass
275	10.0 - 30.0% of mass 198	16143	23.5	Pass
365	1.0 - 100.0% of mass 198	2905	4.23	Pass
441	Present, but less than mass 443	8535	12.4 (69.6) ^b	Pass
442	40.0 - 100.0% of mass 198	64024	93.1	Pass
443	17.0 - 23.0% of mass 442	12268	17.8 (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
EZ4640-CC4615	Z93535.D	07/11/14	22:37	00:12	Continuing cal 25
EZ4640-CC4614	Z93536.D	07/11/14	23:02	00:37	Continuing cal 25
OP76284-MB1	Z93537.D	07/11/14	23:28	01:03	Method Blank
OP76284-BS1	Z93538.D	07/11/14	23:53	01:28	Blank Spike
OP76077-MB1	Z93539.D	07/12/14	00:19	01:54	Method Blank
ZZZZZZ	Z93540.D	07/12/14	00:44	02:19	(unrelated sample)
ZZZZZZ	Z93541.D	07/12/14	01:10	02:45	(unrelated sample)
ZZZZZZ	Z93542.D	07/12/14	01:35	03:10	(unrelated sample)
ZZZZZZ	Z93543.D	07/12/14	02:01	03:36	(unrelated sample)
ZZZZZZ	Z93544.D	07/12/14	02:26	04:01	(unrelated sample)
ZZZZZZ	Z93545.D	07/12/14	02:51	04:26	(unrelated sample)
OP76284-MS	Z93546.D	07/12/14	03:16	04:51	Matrix Spike
OP76284-MSD	Z93547.D	07/12/14	03:42	05:17	Matrix Spike Duplicate

Semivolatile Internal Standard Area Summary

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Job Number: JB70517

Account: LANGAN Langan Engineering & Environmental

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

Check Std: E2P1594-CC1583

Injection Date: 07/05/14

Lab File ID: 2P38159.D

Injection Time: 11:36

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	1381256	4.23	4995170	5.29	2997005	6.73	4960477	7.97	4950389	11.10	4275582	13.09
Upper Limit ^a	2762512	4.73	9990340	5.79	5994010	7.23	9920954	8.47	9900778	11.60	8551164	13.59
Lower Limit ^b	690628	3.73	2497585	4.79	1498503	6.23	2480239	7.47	2475195	10.60	2137791	12.59

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
OP76077-MB1	1956907	4.24	7146165	5.29	3874285	6.72	6208253	7.96	5843612	11.09	5073639	13.08
OP76077-BS1	1786802	4.24	6128418	5.29	3670981	6.73	5957610	7.96	5395719	11.10	4885740	13.09
OP75731A-MB1	1559082	4.24	5721923	5.29	3033150	6.72	4955877	7.96	4684278	11.10	4031310	13.09
OP75731A-BS1	1476064	4.24	5782673	5.29	2934092	6.72	4755060	7.96	4467716	11.10	3942812	13.09
ZZZZZZ	1926529	4.24	7123317	5.29	3754123	6.72	5928785	7.96	5327628	11.10	4525865	13.09
ZZZZZZ	1952481	4.24	7180926	5.29	3772429	6.72	6034817	7.96	5251250	11.10	4368201	13.09
ZZZZZZ	1830344	4.24	6512271	5.29	3349627	6.73	5027588	7.97	4155482	11.11	4153999	13.10
ZZZZZZ	1572697	4.24	5737540	5.29	3173217	6.73	4851496	7.97	3841367	11.10	3488339	13.10
ZZZZZZ	1369108	4.24	5229079	5.29	2376334	6.73	2845303	8.00	4797963	11.16	3643140	13.12
ZZZZZZ	1231705	4.24	4730020	5.29	2532281	6.73	3915696	7.97	3305112	11.10	2950819	13.10
ZZZZZZ	1548998	4.24	5748673	5.29	3054304	6.73	4744690	7.97	4141130	11.10	3725817	13.10
ZZZZZZ	1437859	4.24	4637914	5.30	2203605	6.75	4450190	7.99	4534604	11.12	3703909	13.11
ZZZZZZ	1541691	4.24	5006785	5.30	2173118	6.76	4666390	8.00	5245729	11.12	4599629	13.12
JB70517-1	1570490	4.24	5683959	5.30	2846263	6.73	4541383	7.97	3571444	11.11	3105974	13.11
JB70517-2	1576094	4.24	5509402	5.29	2879768	6.73	4582315	7.97	3813641	11.11	3096392	13.11
ZZZZZZ	1461588	4.24	5295038	5.29	2662362	6.73	4176295	7.97	4040050	11.12	3565121	13.12
ZZZZZZ	1508976	4.24	5313257	5.30	2630385	6.73	4150058	7.97	4078796	11.12	3438981	13.12
ZZZZZZ	1572677	4.24	5790372	5.29	3018212	6.73	4865213	7.97	4644207	11.13	4071404	13.13
ZZZZZZ	1657164	4.24	4995152	5.30	2994294	6.73	4775941	7.97	3787822	11.12	3233812	13.12
ZZZZZZ	1426356	4.24	5078699	5.30	2557858	6.73	4273935	7.97	3415183	11.12	2866615	13.12
ZZZZZZ	1355977	4.24	4865632	5.30	2469028	6.73	4019726	7.97	3568548	11.13	2877116	13.13
ZZZZZZ	1440754	4.24	5222979	5.30	2679483	6.73	4423347	7.97	3526529	11.12	2861785	13.11
ZZZZZZ	1450138	4.24	5254649	5.30	2623616	6.73	4309816	7.97	3646898	11.12	2822105	13.11
OP76077-MS	1338138	4.24	4625277	5.30	2584386	6.73	4265512	7.97	3944098	11.12	2852528	13.11
OP76077-MSD	1330955	4.24	4511887	5.30	2556601	6.73	4203659	7.97	3903288	11.12	2867666	13.11

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: JB70517

Account: LANGAN Langan Engineering & Environmental

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

Check Std: E6P364-CC357	Injection Date: 07/02/14
Lab File ID: 6P8434.D	Injection Time: 21:59
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	249208	4.52	1000657	5.60	625292	7.65	1012695	9.85	1031370	14.07	1008495	16.20
Upper Limit ^a	498416	5.02	2001314	6.10	1250584	8.15	2025390	10.35	2062740	14.57	2016990	16.70
Lower Limit ^b	124604	4.02	500329	5.10	312646	7.15	506348	9.35	515685	13.57	504248	15.70

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
OP76128-MB1	246553	4.51	987267	5.59	621435	7.65	1001505	9.84	1091990	14.06	1044892	16.20
OP76128-BS1	242205	4.52	978561	5.60	612542	7.65	984876	9.85	950140	14.07	1006256	16.20
OP76128-BS1	255198	4.52	1035220	5.60	640669	7.65	1029671	9.85	989782	14.07	1053350	16.21
OP76077-MB1	275489	4.52	1102885	5.59	662016	7.65	1033251	9.84	1071096	14.06	1025723	16.19
OP76077-BS1	259720	4.52	1038293	5.60	641463	7.65	1015523	9.85	978882	14.07	1022987	16.20
OP76123-MB1	262496	4.52	1073695	5.60	645711	7.65	1029836	9.84	1060091	14.06	989598	16.19
ZZZZZZ	245580	4.52	952742	5.59	586192	7.65	955253	9.85	636576	14.11	906138	16.27
ZZZZZZ	255289	4.52	1004612	5.59	612862	7.65	971020	9.84	986890	14.06	937321	16.19
ZZZZZZ	254873	4.52	992577	5.60	614829	7.65	989471	9.84	1036634	14.06	981302	16.20
ZZZZZZ	261565	4.53	1029949	5.61	642027	7.69	1019057	9.92	1021798	14.19	891399	16.38
ZZZZZZ	275199	4.53	1081590	5.61	685567	7.68	1070230	9.91	1113071	14.17	1020315	16.36
ZZZZZZ	275070	4.53	1081067	5.61	643054	7.68	851179	9.94	1076156	14.21	1044100	16.37
ZZZZZZ	265447	4.53	1042247	5.60	650759	7.68	1075109	9.89	1110403	14.15	1060901	16.34
ZZZZZZ	267266	4.53	1049670	5.60	660356	7.68	1058405	9.89	1089049	14.15	1034832	16.36
ZZZZZZ	284333	4.53	1122127	5.60	709091	7.68	1140066	9.89	1152280	14.15	1085684	16.35
ZZZZZZ	255633	4.53	1002693	5.60	639439	7.68	1038120	9.89	1093174	14.15	1064777	16.35
ZZZZZZ	263169	4.53	1046716	5.60	654019	7.68	1062653	9.89	1113154	14.16	1050772	16.35
ZZZZZZ	253547	4.53	1004944	5.60	625956	7.68	1022348	9.90	1047761	14.17	978539	16.38
ZZZZZZ	258558	4.53	1028337	5.60	643736	7.68	1053633	9.90	1121755	14.17	1073120	16.39
ZZZZZZ	263097	4.53	1046743	5.61	679231	7.68	1120153	9.90	1132564	14.17	1070265	16.39

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: JB70517

Account: LANGAN Langan Engineering & Environmental

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

Check Std: E6P368-CC357

Injection Date: 07/08/14

Lab File ID: 6P8541.D

Injection Time: 10:59

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	216434	4.47	875710	5.54	555483	7.57	894326	9.74	925574	13.93	885507	16.05
Upper Limit ^a	432868	4.97	1751420	6.04	1110966	8.07	1788652	10.24	1851148	14.43	1771014	16.55
Lower Limit ^b	108217	3.97	437855	5.04	277742	7.07	447163	9.24	462787	13.43	442754	15.55

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
OP76142-MB1	248209	4.47	1007026	5.54	621830	7.57	1005395	9.74	1040985	13.93	944276	16.06
ZZZZZZ	221465	4.47	908108	5.54	563798	7.57	925202	9.75	984884	13.94	887722	16.06
ZZZZZZ	197601	4.47	818476	5.54	524945	7.58	836928	9.75	894353	13.94	813372	16.06
ZZZZZZ	200345	4.47	825441	5.54	515089	7.58	845539	9.75	897896	13.94	806029	16.07
ZZZZZZ	200177	4.47	816187	5.54	512532	7.58	840475	9.75	869766	13.94	802323	16.07
ZZZZZZ	188822	4.47	782929	5.54	486214	7.58	795680	9.75	850378	13.94	782330	16.07

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.

Semivolatiles Internal Standard Area Summary

Page 1 of 1

Job Number: JB70517

Account: LANGAN Langan Engineering & Environmental

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

Check Std: EF5726-CC5692

Injection Date: 07/06/14

Lab File ID: F36785.D

Injection Time: 14:08

Instrument ID: GCMSF

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	142516	4.66	532081	5.59	300273	6.99	492020	8.85	501285	14.10	447307	17.14
Upper Limit ^a	285032	5.16	1064162	6.09	600546	7.49	984040	9.35	1002570	14.60	894614	17.64
Lower Limit ^b	71258	4.16	266041	5.09	150137	6.49	246010	8.35	250643	13.60	223654	16.64

Lab Sample ID	IS 1 AREA	IS 1 RT	IS 2 AREA	IS 2 RT	IS 3 AREA	IS 3 RT	IS 4 AREA	IS 4 RT	IS 5 AREA	IS 5 RT	IS 6 AREA	IS 6 RT
OP76072-MB1	174984	4.66	648637	5.58	376506	6.99	606308	8.85	597460	14.09	532304	17.13
OP76072-BS1	155238	4.66	648941	5.59	322064	6.99	510394	8.85	496923	14.09	430279	17.13
OP76072-BS13	168249	4.66	610410	5.59	356198	6.99	581554	8.85	562796	14.09	471145	17.13
OP76142-MB1	184952	4.66	676246	5.58	396003	6.99	639695	8.85	642680	14.09	579549	17.13
OP76142-BS1	154395	4.66	661059	5.59	333660	6.99	533998	8.85	525599	14.10	464660	17.14
OP76142-MS	144630	4.66	620706	5.59	294493	6.99	457340	8.85	421560	14.10	369825	17.14
OP76142-MSD	163706	4.67	673906	5.59	317501	6.99	474788	8.85	455015	14.10	407482	17.15
JB70546-2	161823	4.66	620933	5.59	362594	6.99	574653	8.85	514414	14.10	443650	17.14
JB70517-3	170035	4.66	629805	5.59	366947	6.99	592538	8.85	580027	14.09	506674	17.14
JB70517-4	146873	4.66	534718	5.59	306728	6.99	488845	8.85	482149	14.09	432164	17.14
ZZZZZZ	178559	4.66	645593	5.59	366320	6.99	574734	8.85	549647	14.09	472859	17.14
ZZZZZZ	191981	4.66	705475	5.59	404897	6.99	647758	8.85	628038	14.09	545522	17.14
ZZZZZZ	198125	4.66	675770	5.59	353326	6.99	529627	8.85	447337	14.10	417430	17.14
ZZZZZZ	149830	4.67	565308	5.59	330886	6.99	530880	8.86	482539	14.10	409264	17.15
ZZZZZZ	171072	4.67	617624	5.59	357878	6.99	565841	8.86	540698	14.10	453853	17.15
ZZZZZZ	163867	4.67	592939	5.59	347047	6.99	555334	8.86	539776	14.10	443683	17.15
ZZZZZZ	147323	4.67	547658	5.59	317266	6.99	498681	8.85	489530	14.10	405060	17.15
ZZZZZZ	159752	4.67	609728	5.59	352910	6.99	564935	8.86	545445	14.10	462883	17.15
JB70615-3	156428	4.67	568443	5.59	323644	6.99	512421	8.86	493372	14.11	418761	17.15
OP76072-MS	163864	4.67	669591	5.59	308196	6.99	446592	8.86	421818	14.11	379385	17.15
OP76072-MSD	167626	4.67	678704	5.59	310785	6.99	455489	8.86	428483	14.11	394799	17.15
JB70341-3	152738	4.67	552513	5.59	322647	6.99	515457	8.85	496997	14.10	428489	17.15
ZZZZZZ	152237	4.67	557944	5.59	328067	6.99	527644	8.85	520843	14.10	466829	17.15
ZZZZZZ	177357	4.67	674449	5.59	355148	6.99	547382	8.85	515946	14.11	446650	17.15

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: JB70517

Account: LANGAN Langan Engineering & Environmental

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

Check Std: EZ4640-CC4615

Injection Date: 07/11/14

Lab File ID: Z93535.D

Injection Time: 22:37

Instrument ID: GCMSZ

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	152624	3.10	616733	4.40	395504	6.42	651149	8.19	662959	11.78	495541	13.81
Upper Limit ^a	305248	3.60	1233466	4.90	791008	6.92	1302298	8.69	1325918	12.28	991082	14.31
Lower Limit ^b	76312	2.60	308367	3.90	197752	5.92	325575	7.69	331480	11.28	247771	13.31

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
OP76284-MB1	163866	3.10	649519	4.40	380526	6.42	643593	8.19	567982	11.78	448757	13.80
OP76284-BS1	170292	3.11	645677	4.40	382792	6.43	616959	8.19	664753	11.79	396667	13.81
OP76077-MB1	229543	3.10	897628	4.40	526652	6.42	905927	8.19	780070	11.78	642822	13.81
ZZZZZZ	147482	3.10	581248	4.40	343766	6.42	529139	8.19	369170	11.78	256425	13.81
ZZZZZZ	135663	3.10	558872	4.40	339235	6.43	596754	8.19	484167	11.78	253850	13.81
ZZZZZZ	113011	3.11	477005	4.40	293882	6.43	531080	8.19	512041	11.78	305731	13.81
ZZZZZZ	119415	3.11	475337	4.40	298615	6.42	505330	8.19	472937	11.78	324824	13.81
ZZZZZZ	159074	3.10	613662	4.40	343991	6.43	495877	8.19	298159 ^c	11.78	241053 ^c	13.81
ZZZZZZ	117375	3.11	481521	4.40	297947	6.43	479367	8.19	362652	11.78	204250*	13.81
OP76284-MS	75208*	3.15	522675	4.44	294140	6.43	479345	8.20	436603	11.79	234843*	13.81
OP76284-MSD	75926*	3.14	488136	4.43	280933	6.43	448638	8.20	426144	11.79	237009*	13.81

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.

(c) Outside of control limits.

Semivolatile Surrogate Recovery Summary

Job Number: JB70517
Account: LANGAN Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Method: SW846 8270D	Matrix: AQ
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Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
JB70517-3	F36797.D	42	29	97	74	71	90
JB70517-4	F36798.D	47	33	105	79	75	92
OP76142-BS1	F36793.D	48	35	104	73	78	89
OP76142-MB1	F36792.D	42	28	85	71	66	81
OP76142-MB1	6P8544.D	41	27	71	72	67	84
OP76142-MS	F36794.D	72	66	115	78	89	93
OP76142-MSD	F36795.D	66	57	106	74	83	84

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

Page 1 of 1

Job Number: JB70517

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
JB70517-1	2P38174.D	81	90	105	88	99	95
JB70517-2	2P38175.D	88	94	113	96	101	112
OP76077-BS1	6P8441.D	87	85	97	96	84	96
OP76077-BS1	2P38165.D	98	94	108	99	91	105
OP76077-MB1	6P8440.D	90	90	98	99	89	89
OP76077-MB1	2P38164.D	86	96	105	99	101	102
OP76077-MB1	Z93539.D	96	87	98	105	107	116
OP76077-MS	2P38184.D	99	97	110	103	98	106
OP76077-MSD	2P38185.D	102	98	112	105	98	109

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%

8.6.2
8

Initial Calibration Summary

Page 1 of 3

Job Number: JB70517

Sample: E2P1583-ICC1583

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 2P37937.D

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

Response Factor Report MS2P

Method : C:\msdchem\1\METHODS\M2P1583eph.M (RTE Integrator)
 Title : Semi Volatile Extractables by GC/MS
 Last Update : Wed Jul 02 16:37:11 2014
 Response via : Initial Calibration

Calibration Files

2 =2p37935.D 5 =2p37940.D 25 =2p37938.D 80 =2p37936.D
 100 =2p37933.D 50 =2p37937.D 1 =2p37934.D 10 =2p37939.D

Compound	2	5	25	80	100	50	1	10	Avg %RSD
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1) I 1,4-Dichlorobenzene-d -----ISTD-----

2) 1,4-Dioxane	0.470	0.505	0.588	0.582	0.557	0.595	0.534	0.523	0.544	8.15
3) Pyridine	0.953	1.226	1.425	1.407	1.382	1.487		1.216	1.300	14.10
4) N-Nitrosodim	0.334	0.508	0.772	0.783	0.822	0.814		0.688	0.675	27.47

----- Quadratic regression ----- Coefficient = 0.9991
 Response Ratio = -0.02673 + 0.80181 *A + 0.00897 *A^2

5) 2-Fluorophen	1.039	1.153	1.280	1.287	1.327		1.048	1.189	10.70	
6) Indene	2.062	2.097	2.079	1.979	2.010	2.100	1.825	2.074	2.028	4.57
7) Cumene	2.725	2.849	3.081	2.981	2.847	3.072	2.537	2.971	2.883	6.41
8) Phenol-d5	1.052	1.301	1.532	1.494	1.521	1.565	0.849	1.440	1.344	19.46
9) Phenol	1.527	1.634	1.695	1.563	1.595	1.683	1.007	1.649	1.544	14.53
10) Aniline	1.407	1.674	1.693	1.520	1.519	1.662	1.485	1.704	1.583	7.16
11) bis(2-Chloro	1.105	1.164	1.111	0.980	0.992	1.039	1.026	1.125	1.068	6.32
12) 2-Chlorophen	1.212	1.380	1.403	1.278	1.294	1.365	1.147	1.379	1.307	7.02
13) Decane	0.976	1.016	0.995	0.993	0.967	1.005	0.975	1.015	0.993	1.88
14) 1,3-Dichloro	1.482	1.563	1.555	1.476	1.457	1.545	1.406	1.553	1.504	3.83
15) 1,4-Dichloro	1.620	1.592	1.551	1.456	1.459	1.522	1.588	1.536	1.540	3.93
16) Benzyl alcohol	0.533	0.671	0.753	0.720	0.743	0.769		0.715	0.701	11.49
17) 1,2-Dichloro	1.426	1.466	1.461	1.330	1.333	1.441	1.391	1.430	1.410	3.79
18) Acetophenone	1.597	1.674	1.737	1.700	1.716	1.803	1.478	1.714	1.677	5.93
19) 2-Methylphen	1.172	1.140	1.094	1.062	1.094	1.110	1.136	1.136	1.118	3.11
20) 2,2'-oxybis(	0.286	0.293	0.290	0.291	0.293	0.300	0.257	0.288	0.287	4.57
21) 3&4-Methylph	1.212	1.164	1.165	1.175	1.216	1.224	1.187	1.145	1.186	2.43
22) n-Nitroso-di	0.611	0.741	0.791	0.772	0.791	0.795	0.644	0.768	0.739	9.70
23) Hexachloroet	0.614	0.575	0.561	0.541	0.533	0.572	0.593	0.568	0.570	4.59

24) I Naphthalene-d8 -----ISTD-----

25) Nitrobenzene	0.321	0.336	0.346	0.333	0.349	0.342	0.264	0.343	0.329	8.49
26) Nitrobenzene	0.357	0.350	0.348	0.324	0.332	0.347	0.350	0.353	0.345	3.31
27) Quinoline	0.674	0.682	0.723	0.721	0.749	0.744	0.631	0.698	0.703	5.66
28) Isophorone	0.546	0.557	0.584	0.548	0.572	0.581	0.526	0.567	0.560	3.51
29) 2-Nitropheno	0.168	0.195	0.205	0.188	0.198	0.209	0.130	0.200	0.187	13.93
30) 2,4-Dimethyl	0.239	0.258	0.280	0.299	0.314	0.304		0.267	0.280	9.67
31) Benzoic acid			0.254	0.260	0.279	0.276		0.213	0.256	10.23
32) bis(2-Chloro	0.323	0.344	0.357	0.340	0.353	0.351	0.292	0.347	0.339	6.36
33) 2,4-Dichloro	0.257	0.271	0.306	0.293	0.303	0.302	0.207	0.296	0.279	12.13
34) 2,6-Dichloro	0.268	0.280	0.293	0.269	0.276	0.291	0.248	0.288	0.277	5.43
35) 1,3,5-Trichl	0.358	0.368	0.376	0.332	0.335	0.368	0.328	0.376	0.355	5.76
36) 1,2,4-Trichl	0.348	0.348	0.342	0.311	0.317	0.342	0.335	0.344	0.336	4.28
37) 1,2,3-Trichl	0.339	0.341	0.330	0.307	0.310	0.330	0.317	0.340	0.327	4.18
38) Naphthalene	0.981	0.981	0.989	0.804	0.744	0.981	0.921	0.965	0.921	10.27
39) 4-Chloroanil	0.402	0.427	0.434	0.397	0.402	0.437	0.403	0.442	0.418	4.49
40) 2,3-Dichloro	0.377	0.377	0.385	0.374	0.379	0.385	0.322	0.381	0.373	5.59
41) Caprolactam	0.067	0.078	0.095	0.096	0.100	0.095		0.088	0.088	13.50
42) Hexachlorobu	0.194	0.193	0.196	0.185	0.188	0.196	0.185	0.197	0.192	2.59

87.1

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Initial Calibration Summary

Job Number: JB70517

Sample: E2P1583-ICC1583

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 2P37937.D

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

43)	4-Chloro-3-m	0.239	0.262	0.296	0.289	0.299	0.303	0.209	0.282	0.272	12.22
44)	2-Methylnaph	0.562	0.595	0.613	0.568	0.567	0.613	0.525	0.609	0.582	5.38
45)	1-Methylnaph	0.661	0.599	0.612	0.566	0.574	0.612	0.612	0.614	0.606	4.82
46)	Dimethylnaph	0.576	0.571	0.594	0.547	0.542	0.587	0.530	0.585	0.566	4.20
47)	I Acenaphthene-d10	-----ISTD-----									
48)	Hexachlorocy	0.100	0.158	0.273	0.290	0.302	0.288		0.220	0.233	33.40
----- Linear regression ----- Coefficient = 0.9994											
Response Ratio = -0.03650 + 0.30483 *A											
49)	2,4,6-Trichl	0.310	0.360	0.368	0.360	0.364	0.377	0.279	0.367	0.348	9.97
50)	2,4,5-Trichl	0.423	0.434	0.422	0.395	0.406	0.421	0.367	0.429	0.412	5.33
51)	2-Fluorobiph	1.306	1.345	1.220	1.048	1.066	1.173	1.280	1.281	1.215	9.10
52)	2-Chloronaph	1.210	1.183	1.127	1.009	0.972	1.097	1.060	1.176	1.104	7.77
53)	Biphenyl	1.486	1.502	1.429	1.238	1.176	1.413	1.374	1.464	1.385	8.56
54)	2-Nitroanili	0.287	0.314	0.310	0.306	0.305	0.315	0.283	0.314	0.304	4.14
55)	Dimethylphth	1.229	1.287	1.278	1.229	1.229	1.284	1.169	1.262	1.246	3.22
56)	Acenaphthyle	1.826	1.930	1.894	1.490	1.427	1.853	1.705	1.884	1.751	11.02
57)	2,6-Dinitrot	0.241	0.284	0.292	0.289	0.294	0.300	0.233	0.285	0.277	9.18
58)	3-Nitroanili	0.281	0.316	0.344	0.340	0.349	0.353	0.272	0.330	0.323	9.57
59)	Acenaphthene	1.152	1.161	1.118	1.048	1.044	1.138	1.111	1.115	1.111	3.95
60)	2,4-Dinitrop		0.074	0.166	0.194	0.205	0.187		0.132	0.160	30.81
----- Linear regression ----- Coefficient = 0.9985											
Response Ratio = -0.04535 + 0.20996 *A											
61)	4-Nitropheno		0.093	0.143	0.140	0.144	0.144		0.127	0.132	15.22
62)	Dibenzofuran	1.626	1.648	1.602	1.336	1.283	1.599	1.537	1.608	1.530	9.17
63)	2,4-Dinitrot	0.350	0.379	0.389	0.374	0.383	0.389	0.279	0.394	0.367	10.33
64)	2,3,4,6-Tetr	0.296	0.305	0.334	0.344	0.351	0.347	0.278	0.327	0.323	8.28
65)	Diethylphtha	1.206	1.283	1.273	1.229	1.231	1.301	1.172	1.290	1.248	3.65
66)	Fluorene	1.239	1.272	1.253	1.085	1.068	1.236	1.179	1.275	1.201	6.87
67)	4-Chlorophen	0.590	0.606	0.583	0.498	0.493	0.566	0.563	0.590	0.561	7.63
68)	4-Nitroanili	0.272	0.329	0.332	0.337	0.347	0.338	0.227	0.338	0.315	13.43
69)	I Phenanthrene-d10	-----ISTD-----									
70)	4,6-Dinitro-		0.080	0.130	0.139	0.143	0.134		0.110	0.123	19.37
71)	n-Nitrosodip	0.490	0.499	0.480	0.447	0.446	0.476	0.474	0.496	0.476	4.27
72)	1,2-Diphenyl	0.711	0.722	0.687	0.639	0.621	0.672	0.626	0.690	0.671	5.78
73)	2,4,6-Tribo	0.102	0.111	0.118	0.123	0.126	0.124	0.092	0.111	0.113	10.49
74)	4-Bromopheny	0.217	0.207	0.215	0.212	0.209	0.215	0.205	0.209	0.211	2.04
75)	Hexachlorobe	0.269	0.266	0.266	0.261	0.259	0.268	0.254	0.269	0.264	2.02
76)	Pentachlorop		0.100	0.141	0.144	0.148	0.143		0.123	0.133	13.85
77)	Phenanthrene	1.041	1.025	1.018	0.847	0.829	1.003	1.011	0.979	0.969	8.55
78)	Anthracene	1.050	1.032	1.049	0.893	0.840	1.040	0.963	1.056	0.990	8.39
79)	Carbazole	0.976	1.050	1.051	0.932	0.869	1.049	0.943	1.062	0.992	7.26
80)	Di-n-butylph	1.097	1.244	1.326	1.067	1.001	1.335	0.998	1.300	1.171	12.43
81)	Fluoranthene	1.124	1.200	1.246	1.095	1.028	1.226	0.977	1.242	1.142	9.00
82)	Octadecane	0.226	0.249	0.242	0.224	0.226	0.239	0.201	0.245	0.232	6.68
83)	I Chrysene-d12	-----ISTD-----									
84)	Pyrene	1.219	1.264	1.272	1.199	1.135	1.275	1.127	1.249	1.218	4.88
85)	Terphenyl-d1	0.757	0.782	0.820	0.853	0.849	0.844	0.699	0.800	0.801	6.66
86)	Butylbenzylp	0.474	0.514	0.574	0.621	0.617	0.611	0.423	0.552	0.548	13.24
87)	Butyl steara	0.288	0.326	0.349	0.360	0.356	0.354	0.242	0.335	0.326	12.67
88)	Benzo[a]anth	1.116	1.106	1.140	1.144	1.146	1.152	1.084	1.133	1.128	2.09
89)	3,3'-Dichlor	0.364	0.401	0.438	0.436	0.436	0.448	0.338	0.419	0.410	9.69
90)	Chrysene	0.998	0.982	1.006	1.034	1.035	1.035	0.893	0.970	0.994	4.81
91)	bis(2-Ethylh	0.598	0.670	0.780	0.842	0.835	0.808	0.524	0.730	0.723	16.10
92)	I Perylene-d12	-----ISTD-----									

Initial Calibration Summary

Page 3 of 3

Job Number: JB70517

Sample: E2P1583-ICC1583

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 2P37937.D

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

93)	Di-n-octylph	1.007	1.216	1.457	1.445	1.384	1.471	0.952	1.357	1.286	16.02
94)	Benzo[b]fluo	1.117	1.190	1.243	1.140	1.213	1.249	0.996	1.222	1.171	7.25
95)	Benzo[k]fluo	1.104	1.204	1.136	1.051	0.996	1.089	1.019	1.149	1.094	6.36
96)	Benzo[a]pyre	0.924	1.015	1.092	1.067	1.078	1.126	0.849	1.036	1.023	9.09
97)	Indeno[1,2,3	1.187	1.240	1.346	1.281	1.321	1.364	1.063	1.305	1.263	7.85
98)	Dibenz(a,h)a	0.806	0.821	0.969	0.965	0.984	1.003	0.726	0.902	0.897	11.31
99)	Dibenz[a,h]a	0.924	0.982	1.034	0.990	1.023	1.055	0.907	1.029	0.993	5.40
100)	7,12-Dimethy	0.426	0.436	0.559	0.546	0.543	0.570	0.346	0.488	0.489	16.37
101)	Benzo[g,h,i]	0.952	1.016	1.113	1.078	1.104	1.144	0.890	1.074	1.046	8.33

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

M2P1583eph.M

Wed Jul 02 16:37:56 2014

RPT1

8.7.1

8

Initial Calibration Summary

Page 1 of 1

Job Number: JB70517**Sample:** E2P1584-ICC1584**Account:** LANGAN Langan Engineering & Environmental**Lab FileID:** 2P37943.D**Project:** Carroll Gardens, 363-365 Bond Street, Brooklyn, NY**Response Factor Report MS2P**

Method : C:\MSDCHEM\1\METHODS\M2P1583.M (RTE Integrator)
 Title : Semi Volatile Extractables by GC/MS
 Last Update : Mon Jun 30 11:48:15 2014
 Response via : Initial Calibration

Calibration Files

2 =2p37948.D 5 =2p37947.D 25 =2p37944.D 80 =2p37945.D
 100 =2p37942.D 50 =2p37943.D 1 =2p37949.D 10 =2p37946.D

Compound	2	5	25	80	100	50	1	10	Avg %RSD
----------	---	---	----	----	-----	----	---	----	----------

102) I	1,4-Dichlorobenzene-d	-----ISTD-----								
103) Benzaldehyde	1.021	0.857	0.948	1.083	1.067	1.067	0.834	1.103	0.997	10.55
104)	Acenaphthene-d10a	-----ISTD-----								
105) Atrazine	0.169	0.142	0.151	0.174	0.170	0.159	0.121	0.171	0.157	11.79
106) 1,2,4,5-Tetr	0.749	0.657	0.628	0.683	0.670	0.668	0.710	0.732	0.687	5.89
107) I	Chrysene-d12a	-----ISTD-----								
108) 1-chloroocta	0.233	0.214	0.223	0.236	0.234	0.233	0.201	0.246	0.227	6.32
109) Benzidine	0.561	0.582	0.666	0.491	0.443	0.690		0.720	0.593	17.55
110) I	Phenanthrene-d10a	-----ISTD-----								
111) O-terphenyl	0.644	0.554	0.533	0.542	0.529	0.542	0.568	0.613	0.566	7.34
112) I	Naphthalene-d8a	-----ISTD-----								
113) Hydroquinone	0.239	0.309	0.340	0.327	0.331		0.312	0.310		11.76

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

M2P1583.M

Mon Jun 30 14:58:10 2014

RPT1

8.7.2

8

Initial Calibration Verification

Page 1 of 1

Job Number: JB70517

Sample: E2P1584-ICV1583

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 2P37951.D

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

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\2P1583\2p37951.D

Vial: 19

Acq On : 27 Jun 2014 7:05 pm

Operator: elwiraa

Sample : icv1583-50

Inst : MS2P

Misc : op75638,e2p1584,

Multiplr: 1.00

MS Integration Params: lscint.p

Method : C:\msdchem\1\METHODS\M2P1583.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Wed Jul 02 14:24:07 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	118	0.00	4.27
2 t	1,4-Dioxane	0.544	0.545	-0.2	108	0.02	1.47
-----		AvgRF	CCRF	% Dev	-----		
6 t	Indene	2.028	2.328	-14.8	131	0.00	4.48
7 t	Cumene	2.883	3.238	-12.3	124	0.00	3.58
13 t	Decane	0.993	1.054	-6.1	124	0.00	4.15
18 t	Acetophenone	1.677	1.834	-9.4	120	0.00	4.61
24 I	Naphthalene-d8	1.000	1.000	0.0	116	0.00	5.32
27 t	Quinoline	0.703	0.773	-10.0	121	-0.02	5.61
40 t	2,3-Dichloroaniline	0.373	0.345	7.5	104	0.00	6.15
45 t	1-Methylnaphthalene	0.606	0.631	-4.1	120	0.00	5.99
46 t	Dimethylnaphthalene	0.566	0.603	-6.5	119	0.00	6.42
47 I	Acenaphthene-d10	1.000	1.000	0.0	111	0.00	6.75
-----		AvgRF	CCRF	% Dev	-----		
53 t	Biphenyl	1.385	1.521	-9.8	120	0.00	6.29
69 I	Phenanthrene-d10	1.000	1.000	0.0	105	0.00	7.99
82 t	Octadecane	0.232	0.279	-20.3	122	0.00	7.93
92 I	Perylene-d12	1.000	1.000	0.0	95	0.00	13.10

(#) = Out of Range
 2p37943.D M2P1583.M

SPCC's out = 0 CCC's out = 0
 Wed Jul 02 14:29:50 2014 RPT1

87.3

8

Initial Calibration Verification

Page 1 of 1

Job Number: JB70517

Sample: E2P1584-ICV1584

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 2P37951A.D

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

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\2P1583\2p37951a.D Vial: 19
Acq On : 27 Jun 2014 7:05 pm Operator: elwiraa
Sample : icv1584-50 Inst : MS2P
Misc : op75638,e2p1584, Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M2P1583.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jul 01 11:51:03 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	118	0.00	4.27
102 I	1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	152	0.00	4.27
103	Benzaldehyde	0.997	1.191	-19.5	170	0.00	3.90
104	Acenaphthene-d10a	1.000	1.000	0.0	156	0.00	6.75
105	Atrazine	0.157	0.174	-10.8	171	0.00	7.77

(#) = Out of Range
2p37943.D M2P1583.M

SPCC's out = 0 CCC's out = 0
Tue Jul 01 12:17:29 2014 RPT1

8.7.4
8

Initial Calibration Verification

Page 1 of 1

Job Number: JB70517**Sample:** E2P1584-ICV1583**Account:** LANGAN Langan Engineering & Environmental**Lab FileID:** 2P37952.D**Project:** Carroll Gardens, 363-365 Bond Street, Brooklyn, NY**Evaluate Continuing Calibration Report**

Data File : C:\msdchem\1\DATA\2P1583\2p37952.D

Vial: 20

Acq On : 27 Jun 2014 7:28 pm

Operator: elwiraa

Sample : icv1583-50

Inst : MS2P

Misc : op75638,e2p1584,

Multiplr: 1.00

MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M2P1583.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Wed Jul 02 16:53:10 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	103	0.00	4.27
5 S	2-Fluorophenol	1.189	1.067	10.3	83	0.00	3.16
8 S	Phenol-d5	1.344	1.349	-0.4	89	0.00	4.03
24 I	Naphthalene-d8	1.000	1.000	0.0	105	0.00	5.32
25 S	Nitrobenzene-d5	0.329	0.298	9.4	91	0.00	4.74
47 I	Acenaphthene-d10	1.000	1.000	0.0	97	0.00	6.75
51 S	2-Fluorobiphenyl	1.215	1.154	5.0	95	0.00	6.21
69 I	Phenanthrene-d10	1.000	1.000	0.0	97	0.00	7.99
73 S	2,4,6-Tribromophenol	0.113	0.100	11.5	79	0.00	7.41
83 I	Chrysene-d12	1.000	1.000	0.0	97	0.00	11.12
85 S	Terphenyl-d14	0.801	0.746	6.9	86	0.00	9.73
92 I	Perylene-d12	1.000	1.000	0.0	87	0.00	13.10

(#) = Out of Range
 2p37943.D M2P1583.M

SPCC's out = 0 CCC's out = 0
 Wed Jul 02 16:57:01 2014 RPT1

8.7.5

8

Initial Calibration Verification

Page 1 of 1

Job Number: JB70517

Sample: E2P1584-ICV1583

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 2P37953.D

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

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\2P1583\2p37953.D

Vial: 21

Acq On : 27 Jun 2014 7:51 pm

Operator: elwiraa

Sample : icv1584-50

Inst : MS2P

Misc : op75638,e2p1584,

Multiplr: 1.00

MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M2P1583.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Mon Jun 30 11:48:15 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	94	0.00	4.27
3 t	Pyridine	1.300	1.534	-18.0	97	0.16	1.90
10	Aniline	1.583	2.045	-29.2	116	0.00	4.00
16 t	Benzyl alcohol	0.701	0.763	-8.8	93	0.00	4.41
24 I	Naphthalene-d8	1.000	1.000	0.0	98	0.00	5.32
39 t	4-Chloroaniline	0.418	0.455	-8.9	102	0.00	5.40
44 t	2-Methylnaphthalene	0.582	0.587	-0.9	94	0.00	5.91
47 I	Acenaphthene-d10	1.000	1.000	0.0	89	0.00	6.75
54 t	2-Nitroaniline	0.304	0.325	-6.9	92	0.00	6.41
58 t	3-Nitroaniline	0.323	0.338	-4.6	85	0.00	6.75
62 t	Dibenzofuran	1.530	1.639	-7.1	91	0.00	6.92
68 t	4-Nitroaniline	0.315	0.322	-2.2	85	0.00	7.25
69 I	Phenanthrene-d10	1.000	1.000	0.0	89	0.00	7.99
79 t	Carbazole	0.992	1.018	-2.6	86	0.00	8.22

(#) = Out of Range
2p37943.D M2P1583.M

SPCC's out = 0 CCC's out = 0
Mon Jun 30 13:51:24 2014 RPT1

8.7.6
8

Initial Calibration Verification

Page 1 of 2

Job Number: JB70517

Sample: E2P1584-ICV1583

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 2P37954.D

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

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\2P1583\2p37954.D

Vial: 22

Acq On : 27 Jun 2014 8:14 pm

Operator: elwiraa

Sample : icv1583-50

Inst : MS2P

Misc : op75638,e2p1584,

Multiplr: 1.00

MS Integration Params: lscint.p

Method : C:\msdchem\1\METHODS\M2P1583.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Wed Jul 02 14:24:07 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	89	0.00	4.27
9 t	Phenol	1.544	1.640	-6.2	86	0.00	4.04
12 t	2-Chlorophenol	1.307	1.414	-8.2	92	0.00	4.11
19 t	2-Methylphenol	1.118	1.151	-3.0	92	0.00	4.52
21 t	3&4-Methylphenol	1.186	1.190	-0.3	86	0.00	4.66
24 I	Naphthalene-d8	1.000	1.000	0.0	84	0.00	5.32
29 t	2-Nitrophenol	0.187	0.205	-9.6	82	0.00	5.02
30 t	2,4-Dimethylphenol	0.280	0.348	-24.3	96	0.00	5.08
31 t	Benzoic acid	0.256	0.186	27.3	56	-0.01	5.23
33 t	2,4-Dichlorophenol	0.279	0.304	-9.0	85	0.00	5.23
34 t	2,6-Dichlorophenol	0.277	0.303	-9.4	87	0.00	5.41
43 t	4-Chloro-3-methylphenol	0.272	0.298	-9.6	83	-0.01	5.83
47 I	Acenaphthene-d10	1.000	1.000	0.0	82	0.00	6.75
	----- AvgRF CCRF % Dev -----						
49 t	2,4,6-Trichlorophenol	0.348	0.398	-14.4	86	0.00	6.16
50 t	2,4,5-Trichlorophenol	0.412	0.433	-5.1	84	0.00	6.20
	----- True Calc. % Drift -----						
60 t	2,4-Dinitrophenol	100.000	72.294	27.7	52	0.00	6.85
	----- AvgRF CCRF % Dev -----						
61 t	4-Nitrophenol	0.132	0.133	-0.8	76	0.00	6.93
64	2,3,4,6-Tetrachlorophenol	0.323	0.329	-1.9	78	0.00	7.05
69 I	Phenanthrene-d10	1.000	1.000	0.0	76	0.00	7.99
70 t	4,6-Dinitro-2-methylpheno	0.123	0.121	1.6	68	0.00	7.28
76 t	Pentachlorophenol	0.133	0.132	0.8	70	0.00	7.85

8.7.7

8

Initial Calibration Verification

Job Number: JB70517
Account: LANGAN Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Sample: E2P1584-ICV1583
Lab FileID: 2P37954.D

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2p37943.D M2P1583.M Wed Jul 02 14:29:12 2014 RPT1

Initial Calibration Verification

Page 1 of 1

Job Number: JB70517

Sample: E2P1584-ICV1583

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 2P37955A.D

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

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\2P1583\2p37955a.D Vial: 23
Acq On : 27 Jun 2014 8:36 pm Operator: elwiraa
Sample : icv1583-50 Inst : MS2P
Misc : op75638,e2p1584, Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M2P1583.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Jul 02 15:39:05 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	84	0.00	11.12
89 t 3,3'-Dichlorobenzidine	0.410	0.378	7.8	71	0.00	11.11

(#) = Out of Range

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

2p37943.D M2P1583.M

Wed Jul 02 15:41:52 2014 RPT1

8.7.8

8

Initial Calibration Verification

Page 1 of 1

Job Number: JB70517

Sample: E2P1584-ICV1584

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 2P37955.D

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

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\2P1583\2p37955.D Vial: 23
Acq On : 27 Jun 2014 8:36 pm Operator: elwiraa
Sample : icv1584-50 Inst : MS2P
Misc : op75638,e2p1584, Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M2P1583.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jul 01 11:51:03 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	117	0.00	11.12
109 Benzidine	0.593	0.700	-18.0	119	0.00	9.43

(#) = Out of Range
2p37943.D M2P1583.M

SPCC's out = 0 CCC's out = 0
Tue Jul 01 12:17:33 2014 RPT1

8.7.9

8

Initial Calibration Verification

Page 1 of 1

Job Number: JB70517

Sample: E2P1584-ICV1584

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 2P37956.D

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

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\2P1583\2p37956.D Vial: 24
Acq On : 27 Jun 2014 8:59 pm Operator: elwiraa
Sample : icv1584-50 Inst : MS2P
Misc : op75638,e2p1584, Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M2P1583.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jun 30 11:48:15 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	153	0.00	5.32
113	Hydroquinone	0.310	0.373	-20.3	172	0.00	5.74

(#) = Out of Range

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

2p37943.D M2P1583.M

Mon Jun 30 13:51:30 2014 RPT1

8.7.10

8

Initial Calibration Verification

Page 1 of 1

Job Number: JB70517

Sample: E2P1585-ICV1584

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 2P37961.D

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

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\2P1585\2p37961.D Vial: 2
Acq On : 30 Jun 2014 9:29 am Operator: elwiraa
Sample : icv1584-50 Inst : MS2P
Misc : op75638,e2p1585, Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M2P1583.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jun 30 11:48:15 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	124	0.00	6.75
106	1,2,4,5-Tetrachlorobenzen	0.687	0.574	16.4	107	0.00	6.05

(#) = Out of Range
2p37943.D M2P1583.M

SPCC's out = 0 CCC's out = 0
Mon Jun 30 14:00:58 2014 RPT1

8.7.11

8

Initial Calibration Verification

Job Number: JB70517

Sample: E2P1585-ICV1583

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 2P37961A.D

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

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\2P1585\2p37961a.D

Vial: 2

Acq On : 30 Jun 2014 9:29 am

Operator: elwiraa

Sample : icv1583-50

Inst : MS2P

Misc : op75638,e2p1585,

Multiplr: 1.00

MS Integration Params: lscint.p

Method : C:\msdchem\1\METHODS\M2P1583.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Wed Jul 02 14:24:07 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	99	0.00	4.27
	----- True	Calc.	% Drift	-----			
4 t	N-Nitrosodimethylamine	50.000	40.363	19.3	77	0.02	1.74
	----- AvgRF	CCRF	% Dev	-----			
11 t	bis(2-Chloroethyl)ether	1.068	1.014	5.1	97	0.00	4.06
14 t	1,3-Dichlorobenzene	1.504	1.405	6.6	90	0.00	4.22
15 t	1,4-Dichlorobenzene	1.540	1.321	14.2	86	0.00	4.28
17 t	1,2-Dichlorobenzene	1.410	1.271	9.9	88	0.00	4.41
20 t	2,2'-oxybis(1-Chloropropa	0.287	0.263	8.4	87	0.00	4.51
22 t	n-Nitroso-di-n-propylamin	0.739	0.682	7.7	85	-0.01	4.62
23 t	Hexachloroethane	0.570	0.487	14.6	85	0.00	4.68
24 I	Naphthalene-d8	1.000	1.000	0.0	95	0.00	5.32
26 t	Nitrobenzene	0.345	0.301	12.8	82	0.00	4.75
28 t	Isophorone	0.560	0.509	9.1	83	-0.01	4.95
32 t	bis(2-Chloroethoxy)methan	0.339	0.345	-1.8	93	0.00	5.14
36 t	1,2,4-Trichlorobenzene	0.336	0.309	8.0	86	0.00	5.28
38 t	Naphthalene	0.921	0.855	7.2	83	0.00	5.34
42 t	Hexachlorobutadiene	0.192	0.173	9.9	84	0.00	5.45
47 I	Acenaphthene-d10	1.000	1.000	0.0	89	0.00	6.75
	----- True	Calc.	% Drift	-----			
48 t	Hexachlorocyclopentadiene	100.000	73.698	26.3	62	0.00	6.04
	----- AvgRF	CCRF	% Dev	-----			
52 t	2-Chloronaphthalene	1.104	1.089	1.4	88	0.00	6.30
55 t	Dimethylphthalate	1.246	1.188	4.7	82	0.00	6.56
56 t	Acenaphthylene	1.751	1.423	18.7	68	0.00	6.64
57 t	2,6-Dinitrotoluene	0.277	0.258	6.9	76	0.00	6.61
59 t	Acenaphthene	1.111	1.079	2.9	84	0.00	6.78
	----- AvgRF	CCRF	% Dev	-----			
63 t	2,4-Dinitrotoluene	0.367	0.340	7.4	78	0.00	6.95
65 t	Diethylphthalate	1.248	1.204	3.5	82	0.00	7.13

Initial Calibration Verification

Page 2 of 2

Job Number: JB70517

Account: LANGAN Langan Engineering & Environmental

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

Sample:

E2P1585-ICV1583

Lab FileID:

2P37961A.D

66 t	Fluorene	1.201	1.149	4.3	82	0.00	7.20
67 t	4-Chlorophenyl-phenylethe	0.561	0.531	5.3	83	0.00	7.21
69 I	Phenanthrene-d10	1.000	1.000	0.0	89	0.00	7.99
71 t	n-Nitrosodiphenylamine	0.476	0.440	7.6	82	0.00	7.31
72 t	1,2-Diphenylhydrazine	0.671	0.633	5.7	84	0.00	7.34
74 t	4-Bromophenyl-phenylether	0.211	0.196	7.1	81	0.00	7.61
75 t	Hexachlorobenzene	0.264	0.233	11.7	77	0.00	7.67
77 t	Phenanthrene	0.969	0.917	5.4	81	0.00	8.02
78 t	Anthracene	0.990	0.926	6.5	79	0.00	8.06
80 t	Di-n-butylphthalate	1.171	1.227	-4.8	81	0.00	8.59
81 t	Fluoranthene	1.142	1.121	1.8	81	0.00	9.24
83 I	Chrysene-d12	1.000	1.000	0.0	87	0.00	11.12
84 t	Pyrene	1.218	1.164	4.4	79	0.00	9.51
86 t	Butylbenzylphthalate	0.548	0.567	-3.5	81	0.00	10.42
88 t	Benzo[a]anthracene	1.128	1.030	8.7	78	0.00	11.11
90 t	Chrysene	0.994	0.977	1.7	82	0.00	11.16
91 t	bis(2-Ethylhexyl)phthalat	0.723	0.754	-4.3	81	0.00	11.28
92 I	Perylene-d12	1.000	1.000	0.0	84	0.00	13.10
93 t	Di-n-octylphthalate	1.286	1.407	-9.4	81	0.00	12.21
94 t	Benzo[b]fluoranthene	1.171	1.181	-0.9	80	0.00	12.61
95 t	Benzo[k]fluoranthene	1.094	1.079	1.4	84	0.00	12.64
96 t	Benzo[a]pyrene	1.023	1.098	-7.3	82	0.00	13.03
97 t	Indeno[1,2,3-cd]pyrene	1.263	1.264	-0.1	78	0.00	14.42
99 t	Dibenz[a,h]anthracene	0.993	0.970	2.3	78	0.00	14.44
101 t	Benzo[g,h,i]perylene	1.046	1.081	-3.3	80	0.00	14.74

(#) = Out of Range
2p37943.D M2P1583.M

SPCC's out = 0 CCC's out = 0
Wed Jul 02 14:33:25 2014 RPT1

8.7.12
8

Continuing Calibration Summary

Job Number: JB70517

Sample: E2P1594-CC1583

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 2P38159.D

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

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\2P1594\2p38159.D

Vial: 2

Acq On : 5 Jul 2014 11:36 am

Operator: andrews1

Sample : cc1583-50

Inst : MS2P

Misc : op75909,e2p1594,

Multiplr: 1.00

MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M2P1583.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Sun Jul 06 11:55:50 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.
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	129	-0.03	4.23
2 t	1,4-Dioxane	0.544	0.449	17.5	97	-0.01	1.45
3 t	Pyridine	1.300	1.001	23.0#	87	0.04	1.78
----- True Calc. % Drift -----							
4 t	N-Nitrosodimethylamine	50.000	38.152	23.7#	94	0.02	1.74
----- AvgRF CCRF % Dev -----							
5 S	2-Fluorophenol	1.189	1.058	11.0	103	0.03	3.20
6 t	Indene	2.028	2.104	-3.7	129	-0.03	4.45
7 t	Cumene	2.883	3.080	-6.8	129	-0.03	3.54
8 S	Phenol-d5	1.344	1.609	-19.7	132	0.02	4.05
9 t	Phenol	1.544	1.588	-2.8	122	0.03	4.06
10	Aniline	1.583	1.139	28.0#	88	0.00	3.99
11 t	bis(2-Chloroethyl)ether	1.068	1.273	-19.2	158	-0.02	4.04
12 t	2-Chlorophenol	1.307	1.343	-2.8	127	0.00	4.10
13 t	Decane	0.993	1.022	-2.9	131	-0.04	4.12
14 t	1,3-Dichlorobenzene	1.504	1.520	-1.1	127	-0.03	4.19
15 t	1,4-Dichlorobenzene	1.540	1.509	2.0	128	-0.03	4.25
16 t	Benzyl alcohol	0.701	0.739	-5.4	124	0.00	4.42
17 t	1,2-Dichlorobenzene	1.410	1.455	-3.2	130	-0.03	4.38
18 t	Acetophenone	1.677	1.694	-1.0	121	-0.02	4.60
19 t	2-Methylphenol	1.118	1.172	-4.8	136	0.01	4.54
20 t	2,2'-oxybis(1-Chloropropa	0.287	0.293	-2.1	126	-0.03	4.49
21 t	3&4-Methylphenol	1.186	1.220	-2.9	128	0.02	4.68
22 t	n-Nitroso-di-n-propylamin	0.739	0.789	-6.8	128	-0.02	4.61
23 t	Hexachloroethane	0.570	0.571	-0.2	129	-0.04	4.64
24 I	Naphthalene-d8	1.000	1.000	0.0	127	-0.03	5.29
25 S	Nitrobenzene-d5	0.329	0.356	-8.2	132	-0.02	4.72
26 t	Nitrobenzene	0.345	0.373	-8.1	137	-0.02	4.74
27 t	Quinoline	0.703	0.734	-4.4	125	-0.01	5.62
28 t	Isophorone	0.560	0.607	-8.4	133	-0.02	4.94
29 t	2-Nitrophenol	0.187	0.203	-8.6	124	-0.02	5.00
30 t	2,4-Dimethylphenol	0.280	0.325	-16.1	136	0.00	5.08
31 t	Benzoic acid	0.256	0.267	-4.3	123	0.03	5.27
32 t	bis(2-Chloroethoxy)methan	0.339	0.358	-5.6	130	-0.02	5.12
33 t	2,4-Dichlorophenol	0.279	0.297	-6.5	125	0.00	5.24
34 t	2,6-Dichlorophenol	0.277	0.302	-9.0	132	-0.02	5.39
35	1,3,5-Trichlorobenzene	0.355	0.371	-4.5	128	-0.03	4.99
36 t	1,2,4-Trichlorobenzene	0.336	0.342	-1.8	127	-0.03	5.25
37	1,2,3-Trichlorobenzene	0.327	0.332	-1.5	128	-0.03	5.43

Continuing Calibration Summary

Job Number: JB70517

Sample: E2P1594-CC1583

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 2P38159.D

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

38 t	Naphthalene	0.921	0.967	-5.0	125	-0.03	5.31
39 t	4-Chloroaniline	0.418	0.323	22.7#	94	0.00	5.40
40 t	2,3-Dichloroaniline	0.373	0.370	0.8	122	-0.02	6.13
41 t	Caprolactam	0.088	0.089	-1.1	120	0.03	5.74
42 t	Hexachlorobutadiene	0.192	0.195	-1.6	126	-0.04	5.41
43 t	4-Chloro-3-methylphenol	0.272	0.293	-7.7	123	0.01	5.85
44 t	2-Methylnaphthalene	0.582	0.603	-3.6	125	-0.03	5.88
45 t	1-Methylnaphthalene	0.606	0.594	2.0	123	-0.03	5.96
46 t	Dimethylnaphthalene	0.566	0.596	-5.3	129	-0.03	6.39
47 I	Acenaphthene-d10	1.000	1.000	0.0	131	-0.03	6.73
----- True Calc. % Drift -----							
48 t	Hexachlorocyclopentadiene	100.000	100.972	-1.0	134	-0.04	6.00
----- AvgRF CCRF % Dev -----							
49 t	2,4,6-Trichlorophenol	0.348	0.362	-4.0	126	-0.01	6.15
50 t	2,4,5-Trichlorophenol	0.412	0.401	2.7	125	0.00	6.21
51 S	2-Fluorobiphenyl	1.215	1.150	5.3	129	-0.03	6.19
52 t	2-Chloronaphthalene	1.104	1.023	7.3	123	-0.03	6.28
53 t	Biphenyl	1.385	1.318	4.8	123	-0.03	6.26
54 t	2-Nitroaniline	0.304	0.294	3.3	123	0.00	6.41
55 t	Dimethylphthalate	1.246	1.205	3.3	123	-0.02	6.53
56 t	Acenaphthylene	1.751	1.720	1.8	122	-0.03	6.61
57 t	2,6-Dinitrotoluene	0.277	0.273	1.4	120	-0.02	6.59
58 t	3-Nitroaniline	0.323	0.264	18.3	98	0.00	6.75
59 t	Acenaphthene	1.111	1.078	3.0	124	-0.03	6.75
----- True Calc. % Drift -----							
60 t	2,4-Dinitrophenol	100.000	90.817	9.2	121	0.00	6.84
----- AvgRF CCRF % Dev -----							
61 t	4-Nitrophenol	0.132	0.164	-24.2#	150	0.05	6.99
62 t	Dibenzofuran	1.530	1.506	1.6	124	-0.03	6.90
63 t	2,4-Dinitrotoluene	0.367	0.373	-1.6	126	-0.01	6.93
64	2,3,4,6-Tetrachlorophenol	0.323	0.336	-4.0	127	-0.01	7.04
65 t	Diethylphthalate	1.248	1.202	3.7	121	-0.03	7.11
66 t	Fluorene	1.201	1.137	5.3	121	-0.03	7.18
67 t	4-Chlorophenyl-phenylethe	0.561	0.534	4.8	124	-0.03	7.18
68 t	4-Nitroaniline	0.315	0.302	4.1	118	0.01	7.27
69 I	Phenanthrene-d10	1.000	1.000	0.0	123	-0.03	7.97
70 t	4,6-Dinitro-2-methylpheno	0.123	0.133	-8.1	122	-0.02	7.27
71 t	n-Nitrosodiphenylamine	0.476	0.473	0.6	122	-0.03	7.29
72 t	1,2-Diphenylhydrazine	0.671	0.755	-12.5	139	-0.03	7.31
73 S	2,4,6-Tribromophenol	0.113	0.124	-9.7	123	-0.02	7.39
74 t	4-Bromophenyl-phenylether	0.211	0.217	-2.8	124	-0.03	7.58
75 t	Hexachlorobenzene	0.264	0.266	-0.8	122	-0.03	7.64
76 t	Pentachlorophenol	0.133	0.155	-16.5	133	-0.02	7.83
77 t	Phenanthrene	0.969	0.979	-1.0	120	-0.03	7.99
78 t	Anthracene	0.990	1.057	-6.8	125	-0.03	8.04
79 t	Carbazole	0.992	1.049	-5.7	123	-0.01	8.22
80 t	Di-n-butylphthalate	1.171	1.318	-12.6	122	-0.04	8.56
81 t	Fluoranthene	1.142	1.200	-5.1	121	-0.03	9.21
82 t	Octadecane	0.232	0.250	-7.8	129	-0.04	7.89
83 I	Chrysene-d12	1.000	1.000	0.0	125	-0.02	11.10
84 t	Pyrene	1.218	1.224	-0.5	120	-0.03	9.48
85 S	Terphenyl-d14	0.801	0.818	-2.1	121	-0.04	9.69
86 t	Butylbenzylphthalate	0.548	0.581	-6.0	119	-0.04	10.37

8.7.13

8

Continuing Calibration Summary

Page 3 of 3

Job Number: JB70517

Sample: E2P1594-CC1583

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 2P38159.D

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

87	Butyl stearate	0.326	0.361	-10.7	127	-0.05	10.51
88 t	Benzo[a]anthracene	1.128	1.111	1.5	121	-0.03	11.09
89 t	3,3'-Dichlorobenzidine	0.410	0.365	11.0	102	0.00	11.10
90 t	Chrysene	0.994	0.978	1.6	118	-0.02	11.14
91 t	bis(2-Ethylhexyl)phthalat	0.723	0.764	-5.7	118	-0.05	11.23
92 I	Perylene-d12	1.000	1.000	0.0	110	-0.01	13.09
93 t	Di-n-octylphthalate	1.286	1.541	-19.8	116	-0.05	12.16
94 t	Benzo[b]fluoranthene	1.171	1.123	4.1	99	-0.02	12.59
95 t	Benzo[k]fluoranthene	1.094	1.147	-4.8	116	-0.02	12.63
96 t	Benzo[a]pyrene	1.023	1.106	-8.1	108	-0.02	13.02
97 t	Indeno[1,2,3-cd]pyrene	1.263	1.248	1.2	101	-0.01	14.41
98 t	Dibenz(a,h)acridine	0.897	0.904	-0.8	99	-0.02	14.14
99 t	Dibenz[a,h]anthracene	0.993	0.996	-0.3	104	-0.02	14.42
100 t	7,12-Dimethylbenz(a)anthr	0.489	0.564	-15.3	109	-0.04	12.56
101 t	Benzo[g,h,i]perylene	1.046	0.966	7.6	93	0.00	14.73

(#) = Out of Range

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

2p37943.D M2P1583.M

Tue Jul 08 18:11:10 2014 RPT1

8.7.13

8

Continuing Calibration Summary

Page 1 of 1

Job Number: JB70517

Sample: E2P1594-CC1584

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 2P38161.D

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

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\2P1594\2p38161.D

Vial: 3

Acq On : 5 Jul 2014 12:03 pm

Operator: andrews1

Sample : cc1584-50

Inst : MS2P

Misc : op75909,e2p1594,

Multiplr: 1.00

MS Integration Params: lscint.p

Method : C:\msdchem\1\METHODS\M2P1583eph.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Wed Jul 02 16:52:38 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	182	-0.03	4.24
103	Benzaldehyde	0.997	0.997	0.0	170	-0.01	3.89
104	Acenaphthene-d10a	1.000	1.000	0.0	182	-0.03	6.73
105	Atrazine	0.157	0.159	-1.3	181	-0.02	7.75
106	1,2,4,5-Tetrachlorobenzen	0.687	0.670	2.5	182	-0.03	6.02
107 I	Chrysene-d12a	1.000	1.000	0.0	170	-0.02	11.10
108 s	1-chlorooctadecane			-----NA-----			
109	Benzidine	0.593	0.327	44.9#	80	0.00	9.43
110 I	Phenanthrene-d10a	1.000	1.000	0.0	174	-0.03	7.96
111 s	O-terphenyl			-----NA-----			
112 I	Naphthalene-d8a	1.000	1.000	0.0	183	-0.03	5.29
113	Hydroquinone	0.310	0.327	-5.5	180	0.06	5.80

(#) = Out of Range

2p37943.D M2P1583eph.M

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

Mon Jul 07 16:23:46 2014 RPT1

8.7.14

8

Initial Calibration Summary

Page 1 of 3

Job Number: JB70517

Sample: E6P357-ICC357

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 6P8277.D

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

Response Factor Report MS6P

Method : C:\MSDCHEM\1\METHODS\M6P357.M (RTE Integrator)
 Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 Last Update : Tue Jul 01 15:56:51 2014
 Response via : Initial Calibration

Calibration Files

100 =6p8273.D 80 =6p8275.D 50 =6p8277.D 25 =6p8280.D
 10 =6p8276.D 5 =6p8278.D 2 =6p8279.D 1 =6p8274.D

Compound	100	80	50	25	10	5	2	1	Avg	%RSD
1) I 1,4-Dichlorobenzene-d	-----ISTD-----									
2) 1,4-Dioxane	0.659	0.673	0.604	0.649	0.683	0.671	0.579	0.645	6.06	
3) Pyridine	1.797	1.825	1.531	1.598	1.887	1.866	1.862	1.165	1.691	14.80
4) N-Nitrosodim	1.072	1.093	0.958	0.996	1.151	1.087	1.070	1.097	1.066	5.69
5) 2-Fluorophen	1.511	1.556	1.337	1.431	1.631	1.625	1.508	1.678	1.535	7.36
6) Indene	2.330	2.427	2.195	2.467	2.933	3.098	3.075	3.018	2.693	13.86
7) Cumene	3.607	3.762	3.323	3.631	4.238	4.433	4.204	4.293	3.937	10.27
8) Phenol-d5	1.821	1.884	1.690	1.809	2.059	2.147	1.922	2.032	1.920	7.86
9) Phenol	2.024	2.142	1.966	2.157	2.587	2.586	2.481	2.460	2.300	11.09
10) Aniline	1.903	2.033	2.280	2.510	2.800	2.976	2.979	3.120	2.575	18.03
11) bis(2-Chloro	1.528	1.577	1.412	1.514	1.737	1.843	1.743	1.787	1.643	9.41
12) 2-Chlorophen	1.425	1.504	1.320	1.439	1.680	1.731	1.623	1.660	1.548	9.46
13) Decane	1.540	1.628	1.481	1.647	1.923	2.019	1.922	1.816	1.747	11.41
14) 1,3-Dichloro	1.548	1.632	1.431	1.555	1.839	1.894	1.911	1.828	1.705	10.85
15) 1,4-Dichloro	1.543	1.619	1.438	1.575	1.830	1.918	1.878	1.933	1.717	11.31
16) Benzyl alcoh	0.985	1.021	0.926	1.045	1.210	1.198	1.114	1.206	1.088	10.12
17) 1,2-Dichloro	1.411	1.493	1.347	1.481	1.775	1.831	1.809	1.864	1.626	13.10
18) Acetophenone	1.947	2.021	1.890	2.127	2.518	2.676	2.644	2.631	2.307	14.81
19) 2-Methylphen	1.212	1.264	1.212	1.368	1.566	1.583	1.469	1.493	1.396	10.98
20) 2,2'-oxybis(	0.468	0.489	0.461	0.491	0.590	0.606	0.583	0.659	0.543	13.81
21) 3&4-Methylph	1.258	1.318	1.289	1.477	1.673	1.613	1.615	1.564	1.476	11.22
22) n-Nitroso-di	0.977	1.020	0.981	1.115	1.292	1.402	1.423	1.403	1.202	16.56
23) Hexachloroet	0.551	0.573	0.513	0.550	0.653	0.676	0.616	0.602	0.592	9.38
24) I Naphthalene-d8	-----ISTD-----									
25) Nitrobenzene	0.427	0.437	0.394	0.411	0.475	0.472	0.473	0.498	0.448	8.09
26) Nitrobenzene	0.463	0.475	0.425	0.452	0.540	0.530	0.520	0.539	0.493	9.09
27) Quinoline	0.747	0.748	0.655	0.699	0.830	0.827	0.809	0.851	0.771	9.05
28) Isophorone	0.770	0.798	0.718	0.764	0.896	0.908	0.863	0.974	0.836	10.45
29) 2-Nitropheno	0.197	0.207	0.183	0.190	0.226	0.221	0.202	0.215	0.205	7.26
30) 2,4-Dimethyl	0.366	0.370	0.335	0.361	0.357	0.347	0.328	0.309	0.347	6.12
31) Benzoic Acid	0.300	0.361	0.286	0.247	0.278	0.221		0.282	17.00	
32) bis(2-Chloro	0.441	0.457	0.411	0.444	0.505	0.515	0.505	0.506	0.473	8.28
33) 2,4-Dichloro	0.294	0.310	0.269	0.285	0.338	0.335	0.308	0.323	0.308	7.86
34) 2,6-Dichloro	0.279	0.291	0.264	0.283	0.335	0.333	0.308	0.341	0.304	9.61
35) 1,3,5-Trichl	0.310	0.329	0.303	0.340	0.402	0.407	0.409	0.419	0.365	13.41
36) 1,2,4-Trichl	0.308	0.321	0.293	0.312	0.381	0.391	0.385	0.384	0.347	12.03
37) 1,2,3-Trichl	0.300	0.316	0.291	0.312	0.379	0.383	0.386	0.399	0.346	12.96
38) Naphthalene	0.990	1.039	0.944	1.041	1.218	1.267	1.234	1.283	1.127	12.15
39) 4-Chloroanil	0.401	0.427	0.417	0.447	0.512	0.510	0.497	0.505	0.465	9.96
40) 2,3-Dichloro	0.365	0.375	0.344	0.368	0.433	0.441	0.428	0.460	0.402	10.81
41) Caprolactam	0.195	0.200	0.173	0.177	0.204	0.211	0.198	0.183	0.193	7.03
42) Hexachlorobu	0.162	0.171	0.159	0.172	0.208	0.208	0.199	0.204	0.185	11.55
43) 4-Chloro-3-m	0.353	0.364	0.320	0.322	0.388	0.390	0.362	0.385	0.361	7.70
44) 2-Methylnaph	0.579	0.603	0.554	0.587	0.702	0.724	0.676	0.731	0.644	11.09
45) 1-Methylnaph	0.579	0.612	0.554	0.596	0.708	0.746	0.722	0.744	0.657	12.16

8.7.15

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Initial Calibration Summary

Job Number: JB70517

Sample: E6P357-ICC357

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 6P8277.D

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

46)	Dimethylnaph	0.619	0.646	0.594	0.641	0.767	0.770	0.766	0.785	0.698	11.50
47)	I Acenaphthene-d10	-----ISTD-----									
48)	Hexachlorocy	0.291	0.308	0.268	0.278	0.326	0.282			0.292	7.30
49)	2,4,6-Trichl	0.346	0.363	0.316	0.345	0.433	0.418	0.397	0.424	0.380	11.43
50)	2,4,5-Trichl	0.398	0.416	0.364	0.375	0.439	0.442	0.417	0.433	0.411	7.06
51)	2-Fluorobiph	1.152	1.227	1.093	1.193	1.441	1.465	1.466	1.514	1.319	12.80
52)	2-Chloronaph	1.063	1.146	1.011	1.101	1.376	1.396	1.348	1.442	1.235	13.93
53)	Biphenyl	1.307	1.409	1.240	1.363	1.679	1.727	1.687	1.746	1.520	13.80
54)	2-Nitroanili	0.417	0.436	0.363	0.379	0.461	0.449	0.402	0.464	0.421	8.93
55)	Dimethylphth	1.223	1.278	1.125	1.191	1.429	1.453	1.422	1.533	1.332	11.00
56)	Acenaphthyle	1.707	1.802	1.555	1.691	2.040	2.062	1.981	2.107	1.868	11.02
57)	2,6-Dinitrot	0.311	0.324	0.273	0.282	0.337	0.317	0.288	0.300	0.304	7.29
58)	3-Nitroanili	0.353	0.368	0.311	0.318	0.379	0.365	0.318	0.328	0.342	7.79
59)	Acenaphthene	1.040	1.093	0.960	1.022	1.254	1.287	1.291	1.374	1.165	13.21
60)	2,4-Dinitrop	0.202	0.208	0.164	0.136	0.155	0.167			0.172	16.22
61)	4-Nitropheno	0.203	0.203	0.167	0.153	0.146	0.156			0.171	14.74
62)	Dibenzofuran	1.423	1.527	1.349	1.515	1.881	1.951	1.899	2.070	1.702	16.26
63)	2,4-Dinitrot	0.382	0.404	0.356	0.379	0.472	0.450	0.382	0.404	0.404	9.65
64)	2,3,4,6-Tetr	0.318	0.340	0.288	0.295	0.354	0.353	0.321	0.311	0.322	7.68
65)	Diethylphtha	1.156	1.230	1.081	1.152	1.404	1.427	1.375	1.688	1.314	15.12
66)	Fluorene	1.254	1.329	1.162	1.266	1.530	1.545	1.505	1.595	1.398	11.72
67)	4-Chlorophen	0.570	0.611	0.552	0.601	0.727	0.734	0.721	0.759	0.659	12.72
68)	4-Nitroanili	0.352	0.369	0.318	0.324	0.378	0.365	0.319	0.348	0.347	6.81
69)	I Phenanthrene-d10	-----ISTD-----									
70)	4,6-Dinitro-	0.178	0.181	0.143	0.128	0.146				0.155	14.91
71)	n-Nitrosodip	0.548	0.565	0.490	0.518	0.628	0.628	0.596	0.625	0.575	9.28
72)	1,2-Diphenyl	0.958	0.992	0.843	0.908	1.081	1.087	1.051	1.158	1.010	10.33
73)	2,4,6-Tribo	0.111	0.116	0.095	0.098	0.112	0.110	0.103	0.107	0.106	6.86
74)	4-Bromopheny	0.209	0.216	0.190	0.195	0.235	0.235	0.235	0.252	0.221	9.97
75)	Hexachlorobe	0.239	0.247	0.217	0.231	0.281	0.279	0.288	0.313	0.262	12.60
76)	Pentachlorop	0.155	0.159	0.138	0.140	0.162	0.146			0.150	6.76
77)	Phenanthrene	1.120	1.172	1.012	1.075	1.295	1.365	1.352	1.435	1.228	12.55
78)	Anthracene	1.134	1.174	1.037	1.119	1.309	1.366	1.323	1.355	1.227	10.25
79)	Carbazole	1.131	1.170	1.003	1.076	1.300	1.323	1.247	1.345	1.199	10.37
80)	Di-n-butylph	1.267	1.318	1.148	1.211	1.416	1.392	1.296	1.436	1.310	7.75
81)	Fluoranthene	1.276	1.329	1.160	1.206	1.459	1.463	1.437	1.507	1.355	9.64
82)	Octadecane	0.548	0.570	0.492	0.537	0.643	0.667	0.609	0.679	0.593	11.32
83)	I Chrysene-d12	-----ISTD-----									
84)	Pyrene	1.368	1.435	1.164	1.222	1.451	1.495	1.419	1.514	1.384	9.16
85)	Butyl steara	0.417	0.442	0.496	0.512	0.429	0.410	0.346	0.436	0.436	11.80
86)	Terphenyl-d1	0.891	0.957	0.761	0.792	0.942	0.949	0.897	0.971	0.895	8.78
87)	Butylbenzylp	0.614	0.631	0.512	0.511	0.599	0.570	0.519	0.592	0.569	8.52
88)	Benzo[a]anth	1.215	1.255	1.015	1.051	1.268	1.281	1.252	1.368	1.213	9.89
89)	3,3'-Dichlor	0.438	0.466	0.373	0.397	0.481	0.472	0.393	0.476	0.437	9.90
90)	Chrysene	1.207	1.254	1.010	1.045	1.277	1.294	1.229	1.371	1.211	10.19
91)	bis(2-Ethylh		0.875	0.712	0.710	0.839	0.803	0.686		0.771	10.20
92)	I Perylene-d12	-----ISTD-----									
93)	Di-n-octylph		1.477	1.178	1.203	1.518	1.416	1.160		1.325	12.28
94)	Benzo[b]fluo	1.272	1.308	1.019	1.135	1.427	1.492	1.191	1.506	1.294	13.52
95)	Benzo[k]fluo	1.097	1.271	1.049	1.134	1.502	1.541	1.387	1.648	1.329	16.91
96)	Benzo[a]pyre	1.138	1.210	0.972	1.023	1.327	1.333	1.160	1.462	1.203	13.73
97)	Indeno[1,2,3	1.307	1.358	0.985	1.017	1.310	1.101	0.910	1.104	1.136	14.85
98)	Dibenz(a,h)a	1.142	1.199	0.917	0.942	1.201	1.141	0.925	1.052	1.065	11.48
99)	Dibenz[a,h]a	1.271	1.348	1.037	1.093	1.435	1.261	1.001	1.235	1.210	12.65
100)	7,12-Dimethy	0.537	0.589	0.495	0.546	0.548	0.410	0.287	0.336	0.469	23.67
101)	Benzo[g,h,i]	1.272	1.314	1.023	1.063	1.401	1.384	1.271	1.527	1.282	13.21

8.7.15

8

Initial Calibration Summary

Job Number: JB70517
Account: LANGAN Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Sample: E6P357-ICC357
Lab FileID: 6P8277.D

(#) = Out of Range ### Number of calibration levels exceeded format ###
M6P357.M Tue Jul 01 16:02:57 2014 RPT1

Initial Calibration Summary

Page 1 of 1

Job Number: JB70517

Sample: E6P358-ICC358

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 6P8286.D

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

Response Factor Report MS6P

Method : C:\MSDCHEM\1\METHODS\M6P357eph.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
Last Update : Wed Jul 02 08:48:16 2014
Response via : Initial Calibration

Calibration Files

100 =6p8282.D 80 =6p8284.D 50 =6p8286.D 25 =6p8289.D
10 =6p8285.D 5 =6p8287.D 2 =6p8288.D 1 =6p8283.D

Compound	100	80	50	25	10	5	2	1	Avg	%RSD
102) 1,4-Dichlorobenzene-d	-----ISTD-----									
103) Benzaldehyde	1.147	1.199	1.216	1.258	1.412	1.334	1.412	1.284	1.283	7.61
104) Phenanthrene-d10a	-----ISTD-----									
105) Atrazine	0.118	0.121	0.118	0.123	0.135	0.109	0.125	0.096	0.118	9.63
106) o-terphenyl	0.542	0.561	0.581	0.609	0.703	0.634	0.754	0.713	0.637	12.23
107) Chrysene-d12a	-----ISTD-----									
108) Benzidine	0.486	0.512	0.667	0.743	0.742	0.539			0.615	19.01
109) 1-chloroocta	0.363	0.369	0.369	0.378	0.410	0.356	0.366	0.351	0.370	4.83
110) Acenaphthene-d10a	-----ISTD-----									
111) 1,2,4,5-Tetr	0.550	0.563	0.545	0.546	0.631	0.541	0.616	0.603	0.574	6.31
112) I Naphthalene-d8a	-----ISTD-----									
113) Hydroquinone	0.389	0.383	0.321	0.307	0.268				0.334	15.53

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

M6P357eph.M

Wed Jul 02 08:48:43 2014

RPT1

8.7.16

8

Initial Calibration Verification

Page 1 of 1

Job Number: JB70517

Sample: E6P358-ICV357

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 6P8290.D

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

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\6p357\6p8290.D

Vial: 18

Acq On : 26 Jun 2014 10:47 pm

Operator: samtap

Sample : icv357-50

Inst : MS6P

Misc : op75816,e6p358

Multiplr: 1.00

MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\M6P357.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um

Last Update : Wed Jul 02 11:37:14 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	85	0.00	4.53
9 t	Phenol	2.300	1.975	14.1	86	-0.01	4.27
12 t	2-Chlorophenol	1.548	1.416	8.5	91	-0.01	4.37
19 t	2-Methylphenol	1.396	1.363	2.4	96	-0.01	4.73
21 t	3&4-Methylphenol	1.476	1.437	2.6	95	-0.01	4.85
24 I	Naphthalene-d8	1.000	1.000	0.0	83	-0.01	5.60
29 t	2-Nitrophenol	0.205	0.192	6.3	86	-0.01	5.25
30 t	2,4-Dimethylphenol	0.347	0.378	-8.9	93	-0.01	5.30
31	Benzoic Acid	0.282	0.238	15.6	69	-0.04	5.40
33 t	2,4-Dichlorophenol	0.308	0.298	3.2	91	-0.01	5.47
34	2,6-Dichlorophenol	0.304	0.296	2.6	93	-0.02	5.69
43 t	4-Chloro-3-methylphenol	0.361	0.339	6.1	87	-0.02	6.18
47 I	Acenaphthene-d10	1.000	1.000	0.0	78	-0.01	7.65
49 t	2,4,6-Trichlorophenol	0.380	0.375	1.3	92	-0.02	6.68
50 t	2,4,5-Trichlorophenol	0.411	0.405	1.5	86	-0.03	6.72
61 t	4-Nitrophenol	0.171	0.166	2.9	77	-0.02	7.88
64	2,3,4,6-Tetrachlorophenol	0.322	0.309	4.0	83	-0.02	8.12
69 I	Phenanthrene-d10	1.000	1.000	0.0	76	-0.02	9.82
70 t	4,6-Dinitro-2-methylpheno	0.155	0.132	14.8	71	-0.02	8.52
76 t	Pentachlorophenol	0.150	0.148	1.3	82	-0.01	9.56
83 I	Chrysene-d12	1.000	1.000	0.0	78	-0.02	14.01
92 I	Perylene-d12	1.000	1.000	0.0	71	-0.01	16.13

(#) = Out of Range

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

6p8286.D M6P357.M

Wed Jul 02 13:54:30 2014 RPT1

Initial Calibration Verification

Page 1 of 1

Job Number: JB70517

Account: LANGAN Langan Engineering & Environmental

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

Sample: E6P358-ICV358

Lab FileID: 6P8291A.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\6p357\6p8291A.D Vial: 19
Acq On : 26 Jun 2014 11:15 pm Operator: samtap
Sample : icv358-50 Inst : MS6P
Misc : op75816,e6p358 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\M6P357.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
Last Update : Wed Jul 02 11:37:14 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.
106	Chrysene-d12a	1.000	1.000	0.0	113	0.00	14.02
107	Benzidine	0.615	0.689	-12.0	117	-0.01	11.99
108	Acenaphthene-d10a	1.000	1.000	0.0	127	0.00	7.65
109	1,2,4,5-Tetrachlorobenzen	0.574	0.456	20.6	106	0.00	6.55

(#) = Out of Range

6p8286.D M6P357.M

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

Wed Jul 02 13:54:35 2014 RPT1

8.7.18

8

Initial Calibration Verification

Job Number: JB70517

Sample: E6P358-ICV357

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 6P8291.D

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

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\6p357\6p8291.D

Vial: 19

Acq On : 26 Jun 2014 11:15 pm

Operator: samtap

Sample : icv357-50

Inst : MS6P

Misc : op75816,6p358

Multiplr: 1.00

MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\M6P357.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um

Last Update : Wed Jul 02 11:37:14 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	96	0.00	4.53
4 t	N-Nitrosodimethylamine	1.066	0.932	12.6	93	0.00	2.29
11 t	bis(2-Chloroethyl)ether	1.643	1.474	10.3	100	-0.01	4.33
14 t	1,3-Dichlorobenzene	1.705	1.391	18.4	94	0.00	4.48
15 t	1,4-Dichlorobenzene	1.717	1.409	17.9	94	0.00	4.54
17 t	1,2-Dichlorobenzene	1.626	1.350	17.0	96	0.00	4.66
20 t	2,2'-oxybis(1-Chloropropa	0.543	0.474	12.7	99	-0.01	4.74
22 t	n-Nitroso-di-n-propylamin	1.202	1.090	9.3	107	-0.02	4.84
23 t	Hexachloroethane	0.592	0.497	16.0	93	0.00	4.93
24 I	Naphthalene-d8	1.000	1.000	0.0	97	0.00	5.61
26 t	Nitrobenzene	0.493	0.404	18.1	93	-0.01	4.98
28 t	Isophorone	0.836	0.675	19.3	92	-0.02	5.18
32 t	bis(2-Chloroethoxy)methan	0.473	0.431	8.9	102	-0.01	5.38
36 t	1,2,4-Trichlorobenzene	0.347	0.284	18.2	95	0.00	5.55
38 t	Naphthalene	1.127	0.918	18.5	95	-0.01	5.62
42 t	Hexachlorobutadiene	0.185	0.156	15.7	95	0.00	5.76
47 I	Acenaphthene-d10	1.000	1.000	0.0	94	-0.01	7.65
48 t	Hexachlorocyclopentadiene	0.292	0.216	26.0	76	0.00	6.54
52 t	2-Chloronaphthalene	1.235	0.987	20.1	91	-0.02	6.92
55 t	Dimethylphthalate	1.332	1.126	15.5	94	-0.01	7.32
56 t	Acenaphthylene	1.868	1.335	28.5	80	-0.02	7.45
57 t	2,6-Dinitrotoluene	0.304	0.251	17.4	86	-0.02	7.38
59 t	Acenaphthene	1.165	1.011	13.2	99	-0.02	7.69
63 t	2,4-Dinitrotoluene	0.404	0.339	16.1	89	-0.02	7.93
65 t	Diethylphthalate	1.314	1.085	17.4	94	-0.02	8.31
66 t	Fluorene	1.398	1.180	15.6	95	-0.02	8.42
67 t	4-Chlorophenyl-phenylethe	0.659	0.569	13.7	97	-0.01	8.45
69 I	Phenanthrene-d10	1.000	1.000	0.0	93	-0.02	9.82
71 t	n-Nitrosodiphenylamine	0.575	0.489	15.0	92	-0.02	8.62
72 t	1,2-Diphenylhydrazine	1.010	0.872	13.7	96	-0.01	8.68
74 t	4-Bromophenyl-phenylether	0.221	0.197	10.9	96	-0.01	9.17
75 t	Hexachlorobenzene	0.262	0.215	17.9	92	-0.02	9.24
77 t	Phenanthrene	1.228	1.010	17.8	92	-0.02	9.85
78 t	Anthracene	1.227	1.024	16.5	91	-0.02	9.93
80 t	Di-n-butylphthalate	1.310	1.147	12.4	93	-0.02	10.85
81 t	Fluoranthene	1.355	1.142	15.7	91	-0.02	11.72
83 I	Chrysene-d12	1.000	1.000	0.0	90	-0.01	14.02
84 t	Pyrene	1.384	1.212	12.4	94	-0.02	12.07
87 t	Butylbenzylphthalate	0.569	0.523	8.1	92	-0.01	13.24
88 t	Benzo[a]anthracene	1.213	1.018	16.1	91	-0.01	14.00
90 t	Chrysene	1.211	1.085	10.4	97	-0.02	14.06
91 t	bis(2-Ethylhexyl)phthalat	0.771	0.723	6.2	92	0.00	14.22

Initial Calibration Verification

Page 2 of 2

Job Number: JB70517

Sample: E6P358-ICV357

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 6P8291.D

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

92	I	Perylene-d12	1.000	1.000	0.0	89	-0.01	16.13
93	t	Di-n-octylphthalate	1.325	1.226	7.5	93	-0.02	15.20
94	t	Benzo[b]fluoranthene	1.294	1.099	15.1	96	-0.02	15.61
95	t	Benzo[k]fluoranthene	1.329	1.117	16.0	95	-0.03	15.65
96	t	Benzo[a]pyrene	1.203	1.031	14.3	94	-0.02	16.05
97	t	Indeno[1,2,3-cd]pyrene	1.136	0.998	12.1	90	-0.03	17.60
99	t	Dibenz[a,h]anthracene	1.210	1.108	8.4	95	-0.03	17.65
101	t	Benzo[g,h,i]perylene	1.282	1.122	12.5	98	-0.04	18.01

(#) = Out of Range
6p8286.D M6P357.M

SPCC's out = 0 CCC's out = 0
Wed Jul 02 13:54:33 2014 RPT1

8.7.19

8

Initial Calibration Verification

Page 1 of 1

Job Number: JB70517

Sample: E6P358-ICV357

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 6P8292B.D

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

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\6p357\6p8292B.D Vial: 20
Acq On : 26 Jun 2014 11:44 pm Operator: samtap
Sample : icv357-50 Inst : MS6P
Misc : op75816,e6p358 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\M6P357.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
Last Update : Wed Jul 02 11:37:14 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.
47 I	Acenaphthene-d10	1.000	1.000	0.0	102	-0.01	7.65
60 t	2,4-Dinitrophenol	0.172	0.136	20.9	84	-0.02	7.75

(#) = Out of Range

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

6p8286.D M6P357.M

Wed Jul 02 14:47:49 2014 RPT1

8.7.20

8

Initial Calibration Verification

Page 1 of 1

Job Number: JB70517

Sample: E6P358-ICV358

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 6P8292A.D

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

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\6p357\6p8292a.D Vial: 20
Acq On : 26 Jun 2014 11:44 pm Operator: samtap
Sample : icv358-50 Inst : MS6P
Misc : op75816,e6p358 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\M6P357.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
Last Update : Wed Jul 02 11:37:14 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	126	0.00	4.53
103	Benzaldehyde	1.283	1.378	-7.4	143	0.00	4.19
104	Phenanthrene-d10a	1.000	1.000	0.0	124	0.00	9.82
105	Atrazine	0.118	0.134	-13.6	140	0.02	9.48

(#) = Out of Range

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

6p8286.D M6P357.M

Wed Jul 02 13:54:39 2014 RPT1

8.7.21

8

Initial Calibration Verification

Page 1 of 1

Job Number: JB70517

Account: LANGAN Langan Engineering & Environmental

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

Sample: E6P358-ICV357

Lab FileID: 6P8293.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\e6p357\6p8293.D

Vial: 21

Acq On : 27 Jun 2014 12:12 am

Operator: samtap

Sample : icv357-50

Inst : MS6P

Misc : op75816,e6p358

Multiplr: 1.00

MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\M6P357.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um

Last Update : Wed Jul 02 11:37:14 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	93	0.00	4.53
5 S	2-Fluorophenol	1.535	1.314	14.4	91	0.00	3.53
8 S	Phenol-d5	1.920	1.616	15.8	89	-0.01	4.26
24 I	Naphthalene-d8	1.000	1.000	0.0	92	-0.01	5.60
25 S	Nitrobenzene-d5	0.448	0.371	17.2	87	-0.01	4.96
47 I	Acenaphthene-d10	1.000	1.000	0.0	88	-0.01	7.65
51 S	2-Fluorobiphenyl	1.319	1.088	17.5	87	-0.02	6.78
69 I	Phenanthrene-d10	1.000	1.000	0.0	89	-0.02	9.82
73 S	2,4,6-Tribromophenol	0.106	0.088	17.0	82	-0.01	8.78
83 I	Chrysene-d12	1.000	1.000	0.0	90	-0.02	14.01
86 S	Terphenyl-d14	0.895	0.755	15.6	89	-0.01	12.39
92 I	Perylene-d12	1.000	1.000	0.0	78	-0.02	16.13

(#) = Out of Range

6p8286.D M6P357.M

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

Wed Jul 02 13:54:41 2014 RPT1

Initial Calibration Verification

Page 1 of 1

Job Number: JB70517

Account: LANGAN Langan Engineering & Environmental

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

Sample: E6P358-ICV358

Lab FileID: 6P8294A.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\6p357\6p8294a.D Vial: 22
Acq On : 27 Jun 2014 12:40 am Operator: samtap
Sample : icv358-50 Inst : MS6P
Misc : op75816,e6p358 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\M6P357.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
Last Update : Wed Jul 02 11:37:14 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.
106	Chrysene-d12a	1.000	1.000	0.0	108	0.00	14.01
107	Benzidine	0.615	0.714	-16.1	116	-0.01	11.99

(#) = Out of Range
6p8286.D M6P357.M

SPCC's out = 0 CCC's out = 0
Wed Jul 02 13:54:45 2014 RPT1

8.7.23

8

Initial Calibration Verification

Page 1 of 1

Job Number: JB70517

Sample: E6P358-ICV357

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 6P8294.D

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

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\6p357\6p8294.D Vial: 22
Acq On : 27 Jun 2014 12:40 am Operator: samtap
Sample : icv357-50 Inst : MS6P
Misc : op75816,e6p358 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\M6P357.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
Last Update : Wed Jul 02 11:37:14 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.
83 I	Chrysene-d12	1.000	1.000	0.0	87	-0.02	14.01
89 t	3,3'-Dichlorobenzidine	0.437	0.381	12.8	89	-0.02	14.01

(#) = Out of Range
6p8286.D M6P357.M

SPCC's out = 0 CCC's out = 0
Wed Jul 02 13:54:43 2014 RPT1

8.7.24

8

Initial Calibration Verification

Page 1 of 1

Job Number: JB70517

Sample: E6P358-ICV358

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 6P8295.D

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

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\e6p357\6p8295.D Vial: 23
Acq On : 27 Jun 2014 1:08 am Operator: samtap
Sample : icv358-50 Inst : MS6P
Misc : op75816,e6p358 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\M6P357.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
Last Update : Wed Jul 02 11:37:14 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	120	0.00	5.60
113	Hydroquinone	0.334	0.425	-27.2	159	0.00	6.02

(#) = Out of Range

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

6p8286.D M6P357.M

Wed Jul 02 13:54:47 2014 RPT1

8.7.25

8

Initial Calibration Verification

Page 1 of 1

Job Number: JB70517

Account: LANGAN Langan Engineering & Environmental

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

Sample: E6P358-ICV357

Lab FileID: 6P8296.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\6p357\6p8296.D

Vial: 24

Acq On : 27 Jun 2014 1:36 am

Operator: samtap

Sample : icv357-50

Inst : MS6P

Misc : op75816,e6p358

Multiplr: 1.00

MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\M6P357.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um

Last Update : Wed Jul 02 11:37:14 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	98	0.00	4.54
3 t	Pyridine	1.691	1.839	-8.8	117	0.10	2.43
10 t	Aniline	2.575	2.581	-0.2	110	0.00	4.29
16 t	Benzyl alcohol	1.088	0.948	12.9	100	0.00	4.64
24 I	Naphthalene-d8	1.000	1.000	0.0	89	0.00	5.61
39 t	4-Chloroaniline	0.465	0.434	6.7	92	-0.01	5.68
44 t	2-Methylnaphthalene	0.644	0.626	2.8	100	0.00	6.35
47 I	Acenaphthene-d10	1.000	1.000	0.0	93	-0.01	7.65
54 t	2-Nitroaniline	0.421	0.386	8.3	99	-0.02	7.06
58 t	3-Nitroaniline	0.342	0.320	6.4	96	-0.02	7.61
62 t	Dibenzofuran	1.702	1.628	4.3	113	-0.02	7.93
68 t	4-Nitroaniline	0.347	0.285	17.9	84	-0.03	8.47
69 I	Phenanthrene-d10	1.000	1.000	0.0	91	-0.02	9.82
79 t	Carbazole	1.199	1.080	9.9	98	-0.02	10.21
83 I	Chrysene-d12	1.000	1.000	0.0	89	-0.02	14.01
92 I	Perylene-d12	1.000	1.000	0.0	73	-0.01	16.13

(#) = Out of Range
6p8286.D M6P357.MSPCC's out = 0 CCC's out = 0
Wed Jul 02 13:54:49 2014 RPT1

Continuing Calibration Summary

Page 1 of 3

Job Number: JB70517

Sample: E6P364-CC357

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 6P8434.D

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

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\6p364\6p8434.D

Vial: 2

Acq On : 2 Jul 2014 9:59 pm

Operator: andrews1

Sample : cc357-25

Inst : MS6P

Misc : op75816,6p364

Multiplr: 1.00

MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\M6P357.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um

Last Update : Wed Jul 02 11:37:14 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	122	-0.01	4.52
2	1,4-Dioxane	0.645	0.612	5.1	115	-0.01	1.98
3 t	Pyridine	1.691	1.529	9.6	116	0.00	2.33
4 t	N-Nitrosodimethylamine	1.066	0.970	9.0	118	0.00	2.29
5 S	2-Fluorophenol	1.535	1.415	7.8	120	0.00	3.53
6 t	Indene	2.693	2.532	6.0	125	-0.02	4.72
7 t	Cumene	3.937	3.702	6.0	124	-0.02	3.91
8 S	Phenol-d5	1.920	1.845	3.9	124	-0.01	4.26
9 t	Phenol	2.300	2.208	4.0	125	-0.01	4.27
10 t	Aniline	2.575	2.310	10.3	112	-0.01	4.27
11 t	bis(2-Chloroethyl)ether	1.643	1.521	7.4	122	-0.02	4.32
12 t	2-Chlorophenol	1.548	1.436	7.2	121	-0.02	4.36
13 t	Decane	1.747	1.801	-3.1	133	-0.02	4.40
14 t	1,3-Dichlorobenzene	1.705	1.595	6.5	125	-0.01	4.48
15 t	1,4-Dichlorobenzene	1.717	1.579	8.0	122	-0.02	4.53
16 t	Benzyl alcohol	1.088	1.060	2.6	123	-0.02	4.63
17 t	1,2-Dichlorobenzene	1.626	1.478	9.1	121	-0.02	4.65
18 t	Acetophenone	2.307	2.201	4.6	126	-0.02	4.84
19 t	2-Methylphenol	1.396	1.391	0.4	124	-0.01	4.73
20 t	2,2'-oxybis(1-Chloropropa	0.543	0.499	8.1	124	-0.02	4.73
21 t	3&4-Methylphenol	1.476	1.541	-4.4	127	-0.01	4.85
22 t	n-Nitroso-di-n-propylamin	1.202	1.177	2.1	128	-0.02	4.84
23 t	Hexachloroethane	0.592	0.586	1.0	130	-0.02	4.92
24 I	Naphthalene-d8	1.000	1.000	0.0	120	-0.02	5.60
25 S	Nitrobenzene-d5	0.448	0.463	-3.3	136	-0.02	4.96
26 t	Nitrobenzene	0.493	0.502	-1.8	134	-0.02	4.97
27 t	Quinoline	0.771	0.687	10.9	118	-0.02	5.95
28 t	Isophorone	0.836	0.812	2.9	128	-0.02	5.18
29 t	2-Nitrophenol	0.205	0.197	3.9	124	-0.02	5.25
30 t	2,4-Dimethylphenol	0.347	0.359	-3.5	120	-0.02	5.29
31	Benzoic Acid	0.282	0.190	32.6#	93	-0.06	5.38
32 t	bis(2-Chloroethoxy)methan	0.473	0.444	6.1	121	-0.02	5.37
33 t	2,4-Dichlorophenol	0.308	0.296	3.9	125	-0.01	5.47
34	2,6-Dichlorophenol	0.304	0.299	1.6	127	-0.02	5.68
35 t	1,3,5-Trichlorobenzene	0.365	0.341	6.6	121	-0.02	5.26
36 t	1,2,4-Trichlorobenzene	0.347	0.325	6.3	125	-0.02	5.54
37 t	1,2,3-Trichlorobenzene	0.346	0.330	4.6	127	-0.02	5.76
38 t	Naphthalene	1.127	1.029	8.7	119	-0.02	5.62
39 t	4-Chloroaniline	0.465	0.443	4.7	119	-0.02	5.67
40 t	2,3-Dichloroaniline	0.402	0.379	5.7	124	-0.01	6.68
41 t	Caprolactam	0.193	0.194	-0.5	132	-0.05	6.03

Continuing Calibration Summary

Page 2 of 3

Job Number: JB70517

Account: LANGAN Langan Engineering & Environmental

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

Sample: E6P364-CC357

Lab FileID: 6P8434.D

42 t	Hexachlorobutadiene	0.185	0.190	-2.7	134	-0.02	5.74
43 t	4-Chloro-3-methylphenol	0.361	0.360	0.3	135	-0.01	6.19
44 t	2-Methylnaphthalene	0.644	0.598	7.1	123	-0.02	6.34
45 t	1-Methylnaphthalene	0.657	0.603	8.2	122	-0.02	6.45
46 t	Dimethylnaphthalene	0.698	0.643	7.9	121	-0.01	7.10
47 I	Acenaphthene-d10	1.000	1.000	0.0	120	0.00	7.65
48 t	Hexachlorocyclopentadiene	0.292	0.301	-3.1	130	-0.02	6.53
49 t	2,4,6-Trichlorophenol	0.380	0.371	2.4	129	-0.01	6.69
50 t	2,4,5-Trichlorophenol	0.411	0.416	-1.2	133	-0.01	6.74
51 S	2-Fluorobiphenyl	1.319	1.215	7.9	122	-0.02	6.78
52 t	2-Chloronaphthalene	1.235	1.129	8.6	123	-0.02	6.92
53 t	Biphenyl	1.520	1.371	9.8	121	-0.02	6.90
54 t	2-Nitroaniline	0.421	0.434	-3.1	138	-0.02	7.06
55 t	Dimethylphthalate	1.332	1.239	7.0	125	-0.01	7.32
56 t	Acenaphthylene	1.868	1.715	8.2	122	-0.01	7.46
57 t	2,6-Dinitrotoluene	0.304	0.293	3.6	125	0.00	7.39
58 t	3-Nitroaniline	0.342	0.332	2.9	126	0.00	7.62
59 t	Acenaphthene	1.165	1.042	10.6	123	-0.01	7.70
60 t	2,4-Dinitrophenol	0.172	0.088	48.8#	78	0.00	7.77
61 t	4-Nitrophenol	0.171	0.203	-18.7	160	0.02	7.92
62 t	Dibenzofuran	1.702	1.545	9.2	123	-0.01	7.94
63 t	2,4-Dinitrotoluene	0.404	0.406	-0.5	129	0.00	7.95
64	2,3,4,6-Tetrachlorophenol	0.322	0.315	2.2	128	0.00	8.14
65 t	Diethylphthalate	1.314	1.217	7.4	127	0.00	8.33
66 t	Fluorene	1.398	1.268	9.3	121	0.00	8.44
67 t	4-Chlorophenyl-phenylether	0.659	0.609	7.6	122	0.00	8.46
68 t	4-Nitroaniline	0.347	0.328	5.5	122	0.00	8.50
69 I	Phenanthrene-d10	1.000	1.000	0.0	118	0.02	9.85
70 t	4,6-Dinitro-2-methylpheno	0.155	0.112	27.7#	103	0.02	8.55
71 t	n-Nitrosodiphenylamine	0.575	0.541	5.9	123	0.00	8.64
72 t	1,2-Diphenylhydrazine	1.010	1.016	-0.6	132	0.00	8.69
73 S	2,4,6-Tribromophenol	0.106	0.106	0.0	128	0.00	8.79
74 t	4-Bromophenyl-phenylether	0.221	0.214	3.2	130	0.00	9.18
75 t	Hexachlorobenzene	0.262	0.241	8.0	123	0.01	9.27
76 t	Pentachlorophenol	0.150	0.143	4.7	121	0.03	9.60
77 t	Phenanthrene	1.228	1.111	9.5	122	0.02	9.88
78 t	Anthracene	1.227	1.145	6.7	121	0.02	9.96
79 t	Carbazole	1.199	1.102	8.1	121	0.02	10.24
80 t	Di-n-butylphthalate	1.310	1.288	1.7	126	0.01	10.88
81 t	Fluoranthene	1.355	1.250	7.7	122	0.02	11.76
82 t	Octadecane	0.593	0.603	-1.7	133	0.01	9.82
83 I	Chrysene-d12	1.000	1.000	0.0	113	0.04	14.07
84 t	Pyrene	1.384	1.303	5.9	120	0.02	12.10
85	Butyl stearate	0.436	0.618	-41.7#	136	0.02	13.46
86 S	Terphenyl-d14	0.895	0.867	3.1	123	0.02	12.43
87 t	Butylbenzylphthalate	0.569	0.587	-3.2	130	0.03	13.28
88 t	Benzo[a]anthracene	1.213	1.147	5.4	123	0.04	14.05
89 t	3,3'-Dichlorobenzidine	0.437	0.424	3.0	121	0.03	14.06
90 t	Chrysene	1.211	1.097	9.4	118	0.03	14.10
91 t	bis(2-Ethylhexyl)phthalat	0.771	0.818	-6.1	130	0.03	14.25
92 I	Perylene-d12	1.000	1.000	0.0	109	0.06	16.20
93 t	Di-n-octylphthalate	1.325	1.433	-8.2	130	0.04	15.25
94 t	Benzo[b]fluoranthene	1.294	1.246	3.7	120	0.04	15.67
95 t	Benzo[k]fluoranthene	1.329	1.162	12.6	112	0.03	15.71
96 t	Benzo[a]pyrene	1.203	1.102	8.4	117	0.04	16.12
97 t	Indeno[1,2,3-cd]pyrene	1.136	1.107	2.6	119	0.07	17.70

8.7.27

8

Continuing Calibration Summary

Page 3 of 3

Job Number: JB70517

Sample: E6P364-CC357

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 6P8434.D

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

98 t	Dibenz(a,h)acridine	1.065	0.981	7.9	114	0.06	17.36
99 t	Dibenz[a,h]anthracene	1.210	1.106	8.6	110	0.07	17.75
100 t	7,12-Dimethylbenz(a)anthr	0.469	0.557	-18.8	111	0.03	15.68
101 t	Benzo[g,h,i]perylene	1.282	1.064	17.0	109	0.07	18.13

(#) = Out of Range

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

6p8289.D M6P357.M

Thu Jul 03 11:45:36 2014 RPT1

8.7.27

8

Continuing Calibration Summary

Page 1 of 1

Job Number: JB70517**Sample:** E6P364-CC358**Account:** LANGAN Langan Engineering & Environmental**Lab FileID:** 6P8435.D**Project:** Carroll Gardens, 363-365 Bond Street, Brooklyn, NY**Evaluate Continuing Calibration Report**

Data File : C:\msdchem\1\DATA\6p364\6p8435.D

Vial: 3

Acq On : 2 Jul 2014 10:27 pm

Operator: andrews1

Sample : cc358-25

Inst : MS6P

Misc : op75816,6p364

Multiplr: 1.00

MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\M6P357.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um

Last Update : Wed Jul 02 11:37:14 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	85	-0.01	4.51
103	Benzaldehyde	1.283	1.240	3.4	84	0.00	4.19
104	Phenanthrene-d10a	1.000	1.000	0.0	90	0.02	9.84
105	Atrazine	0.118	0.126	-6.8	92	0.04	9.50
106	Chrysene-d12a	1.000	1.000	0.0	92	0.04	14.06
107	Benzidine	0.615	0.641	-4.2	79	0.03	12.02
108	Acenaphthene-d10a	1.000	1.000	0.0	92	0.00	7.65
109	1,2,4,5-Tetrachlorobenzen	0.574	0.550	4.2	93	-0.02	6.54
110 I	Naphthalene-d8a	1.000	1.000	0.0	88	-0.01	5.60
111	Hydroquinone	0.334	0.417	-24.9#	120	0.00	6.03

(#) = Out of Range
 6p8289.D M6P357.M

SPCC's out = 0 CCC's out = 0
 Thu Jul 03 11:45:38 2014 RPT1

8.7.28

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Continuing Calibration Summary

Page 1 of 3

Job Number: JB70517

Sample: E6P368-CC357

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 6P8541.D

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

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\6p368\6p8541.D

Vial: 2

Acq On : 8 Jul 2014 10:59 am

Operator: ashleyv

Sample : cc357-25

Inst : MS6P

Misc : op75816,6p368

Multiplr: 1.00

MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\M6P357.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um

Last Update : Thu Jul 10 15:39:20 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	106	0.00	4.47
2	1,4-Dioxane	0.645	0.604	6.4	98	0.00	1.92
3 t	Pyridine	1.691	1.416	16.3	94	0.00	2.27
4 t	N-Nitrosodimethylamine	1.066	0.969	9.1	103	0.00	2.23
5 S	2-Fluorophenol	1.535	1.315	14.3	97	0.00	3.48
6 t	Indene	2.693	2.540	5.7	109	0.00	4.66
7 t	Cumene	3.937	3.579	9.1	104	0.00	3.86
8 S	Phenol-d5	1.920	1.784	7.1	104	0.00	4.23
9 t	Phenol	2.300	2.067	10.1	101	0.00	4.24
10 t	Aniline	2.575	2.184	15.2	92	0.00	4.23
11 t	bis(2-Chloroethyl)ether	1.643	1.483	9.7	104	0.00	4.27
12 t	2-Chlorophenol	1.548	1.385	10.5	102	0.00	4.32
13 t	Decane	1.747	1.820	-4.2	117	0.00	4.35
14 t	1,3-Dichlorobenzene	1.705	1.546	9.3	105	0.00	4.43
15 t	1,4-Dichlorobenzene	1.717	1.604	6.6	108	0.00	4.48
16 t	Benzyl alcohol	1.088	0.999	8.2	101	0.00	4.58
17 t	1,2-Dichlorobenzene	1.626	1.466	9.8	105	0.00	4.60
18 t	Acetophenone	2.307	2.188	5.2	109	0.00	4.78
19 t	2-Methylphenol	1.396	1.338	4.2	103	0.00	4.69
20 t	2,2'-oxybis(1-Chloropropa	0.543	0.501	7.7	108	0.00	4.69
21 t	3&4-Methylphenol	1.476	1.468	0.5	105	0.00	4.80
22 t	n-Nitroso-di-n-propylamin	1.202	1.209	-0.6	115	0.00	4.79
23 t	Hexachloroethane	0.592	0.616	-4.1	118	0.00	4.86
24 I	Naphthalene-d8	1.000	1.000	0.0	105	0.00	5.54
25 S	Nitrobenzene-d5	0.448	0.466	-4.0	120	0.00	4.91
26 t	Nitrobenzene	0.493	0.527	-6.9	123	0.00	4.92
27 t	Quinoline	0.771	0.684	11.3	103	0.00	5.89
28 t	Isophorone	0.836	0.784	6.2	108	0.00	5.12
29 t	2-Nitrophenol	0.205	0.186	9.3	103	0.00	5.19
30 t	2,4-Dimethylphenol	0.347	0.352	-1.4	103	0.00	5.24
31	Benzoic Acid	0.282	0.192	31.9#	82	0.00	5.34
32 t	bis(2-Chloroethoxy)methan	0.473	0.414	12.5	98	0.00	5.31
33 t	2,4-Dichlorophenol	0.308	0.297	3.6	110	0.00	5.42
34	2,6-Dichlorophenol	0.304	0.284	6.6	105	0.00	5.62
35 t	1,3,5-Trichlorobenzene	0.365	0.347	4.9	107	0.00	5.20
36 t	1,2,4-Trichlorobenzene	0.347	0.332	4.3	112	0.00	5.48
37 t	1,2,3-Trichlorobenzene	0.346	0.327	5.5	110	0.00	5.70
38 t	Naphthalene	1.127	1.009	10.5	102	0.00	5.56
39 t	4-Chloroaniline	0.465	0.417	10.3	98	0.00	5.62
40 t	2,3-Dichloroaniline	0.402	0.371	7.7	106	0.00	6.61
41 t	Caprolactam	0.193	0.181	6.2	108	0.00	5.97

Continuing Calibration Summary

Page 2 of 3

Job Number: JB70517

Sample: E6P368-CC357

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 6P8541.D

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

42 t	Hexachlorobutadiene	0.185	0.198	-7.0	122	0.00	5.68
43 t	4-Chloro-3-methylphenol	0.361	0.354	1.9	116	0.00	6.14
44 t	2-Methylnaphthalene	0.644	0.587	8.9	105	0.00	6.27
45 t	1-Methylnaphthalene	0.657	0.587	10.7	104	0.00	6.39
46 t	Dimethylnaphthalene	0.698	0.642	8.0	106	0.00	7.03
47 I	Acenaphthene-d10	1.000	1.000	0.0	107	0.00	7.57
48 t	Hexachlorocyclopentadiene	0.292	0.313	-7.2	120	0.00	6.46
49 t	2,4,6-Trichlorophenol	0.380	0.356	6.3	110	0.00	6.62
50 t	2,4,5-Trichlorophenol	0.411	0.404	1.7	115	0.00	6.67
51 S	2-Fluorobiphenyl	1.319	1.192	9.6	107	0.00	6.71
52 t	2-Chloronaphthalene	1.235	1.113	9.9	108	0.00	6.85
53 t	Biphenyl	1.520	1.327	12.7	104	0.00	6.83
54 t	2-Nitroaniline	0.421	0.456	-8.3	129	0.00	6.99
55 t	Dimethylphthalate	1.332	1.211	9.1	109	0.00	7.24
56 t	Acenaphthylene	1.868	1.661	11.1	105	0.00	7.38
57 t	2,6-Dinitrotoluene	0.304	0.290	4.6	110	0.00	7.31
58 t	3-Nitroaniline	0.342	0.303	11.4	102	0.00	7.54
59 t	Acenaphthene	1.165	1.021	12.4	107	0.00	7.61
60 t	2,4-Dinitrophenol	0.172	0.095	44.8#	75	0.00	7.69
61 t	4-Nitrophenol	0.171	0.218	-27.5#	152	0.00	7.84
62 t	Dibenzofuran	1.702	1.534	9.9	108	0.00	7.85
63 t	2,4-Dinitrotoluene	0.404	0.397	1.7	112	0.00	7.87
64	2,3,4,6-Tetrachlorophenol	0.322	0.308	4.3	111	0.00	8.05
65 t	Diethylphthalate	1.314	1.207	8.1	112	0.00	8.23
66 t	Fluorene	1.398	1.242	11.2	105	0.00	8.34
67 t	4-Chlorophenyl-phenylethe	0.659	0.601	8.8	107	0.00	8.37
68 t	4-Nitroaniline	0.347	0.283	18.4	93	0.00	8.40
69 I	Phenanthrene-d10	1.000	1.000	0.0	104	0.00	9.74
70 t	4,6-Dinitro-2-methylpheno	0.155	0.107	31.0#	87	0.00	8.46
71 t	n-Nitrosodiphenylamine	0.575	0.515	10.4	104	0.00	8.54
72 t	1,2-Diphenylhydrazine	1.010	1.039	-2.9	119	0.00	8.60
73 S	2,4,6-Tribromophenol	0.106	0.103	2.8	110	0.00	8.70
74 t	4-Bromophenyl-phenylether	0.221	0.209	5.4	112	0.00	9.09
75 t	Hexachlorobenzene	0.262	0.239	8.8	108	0.00	9.16
76 t	Pentachlorophenol	0.150	0.133	11.3	99	0.00	9.48
77 t	Phenanthrene	1.228	1.091	11.2	106	0.00	9.77
78 t	Anthracene	1.227	1.111	9.5	104	0.00	9.85
79 t	Carbazole	1.199	1.061	11.5	103	0.00	10.14
80 t	Di-n-butylphthalate	1.310	1.286	1.8	111	0.00	10.77
81 t	Fluoranthene	1.355	1.236	8.8	107	0.00	11.64
82 t	Octadecane	0.593	0.591	0.3	115	0.00	9.71
83 I	Chrysene-d12	1.000	1.000	0.0	101	0.00	13.93
84 t	Pyrene	1.384	1.265	8.6	105	0.00	11.99
85	Butyl stearate	0.436	0.577	-32.3#	114	0.00	13.33
86 S	Terphenyl-d14	0.895	0.847	5.4	108	0.00	12.31
87 t	Butylbenzylphthalate	0.569	0.568	0.2	112	0.00	13.15
88 t	Benzo[a]anthracene	1.213	1.135	6.4	109	0.00	13.92
89 t	3,3'-Dichlorobenzidine	0.437	0.422	3.4	108	0.00	13.93
90 t	Chrysene	1.211	1.067	11.9	103	0.00	13.97
91 t	bis(2-Ethylhexyl)phthalat	0.771	0.814	-5.6	116	0.00	14.12
92 I	Perylene-d12	1.000	1.000	0.0	96	0.00	16.05
93 t	Di-n-octylphthalate	1.325	1.408	-6.3	112	0.00	15.11
94 t	Benzo[b]fluoranthene	1.294	1.190	8.0	100	0.00	15.53
95 t	Benzo[k]fluoranthene	1.329	1.183	11.0	100	0.00	15.57
96 t	Benzo[a]pyrene	1.203	1.070	11.1	100	0.00	15.97
97 t	Indeno[1,2,3-cd]pyrene	1.136	1.035	8.9	97	0.00	17.50

8.7.29

8

Continuing Calibration Summary

Page 3 of 3

Job Number: JB70517

Sample: E6P368-CC357

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 6P8541.D

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

98 t	Dibenz(a,h)acridine	1.065	0.952	10.6	97	0.00	17.18
99 t	Dibenz[a,h]anthracene	1.210	1.100	9.1	96	0.00	17.54
100 t	7,12-Dimethylbenz(a)anthr	0.469	0.553	-17.9	97	0.00	15.53
101 t	Benzo[g,h,i]perylene	1.282	1.035	19.3	93	0.00	17.90

(#) = Out of Range

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

6p8289.D M6P357.M

Thu Jul 10 15:48:36 2014 RPT1

8.7.29

8

Continuing Calibration Summary

Page 1 of 1

Job Number: JB70517**Sample:** E6P368-CC358**Account:** LANGAN Langan Engineering & Environmental**Lab FileID:** 6P8542.D**Project:** Carroll Gardens, 363-365 Bond Street, Brooklyn, NY**Evaluate Continuing Calibration Report**

Data File : C:\msdchem\1\DATA\6p368\6p8542.D

Vial: 3

Acq On : 8 Jul 2014 11:44 am

Operator: ashleyv

Sample : cc358-25

Inst : MS6P

Misc : op75816,e6p368

Multiplr: 1.00

MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\M6P357.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um

Last Update : Tue Jul 08 17:11:05 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	75	0.00	4.47
103	Benzaldehyde	1.283	1.154	10.1	68	0.00	4.14
104	Phenanthrene-d10a	1.000	1.000	0.0	80	0.00	9.74
105	Atrazine	0.118	0.120	-1.7	78	0.00	9.40
106	Chrysene-d12a	1.000	1.000	0.0	80	0.00	13.93
107	Benzidine	0.615	0.572	7.0	62	0.00	11.91
108	Acenaphthene-d10a	1.000	1.000	0.0	83	0.00	7.57
109	1,2,4,5-Tetrachlorobenzen	0.574	0.533	7.1	81	0.00	6.47
110 I	Naphthalene-d8a	1.000	1.000	0.0	77	0.00	5.54
111	Hydroquinone	0.334	0.379	-13.5	95	0.00	5.98

(#) = Out of Range

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

6p8289.D M6P357.M

Tue Jul 08 17:12:04 2014 RPT1

8.7.30

8

Initial Calibration Summary

Page 1 of 3

Job Number: JB70517

Sample: EF5692-ICC5692

Account: LANGAN Langan Engineering & Environmental

Lab FileID: F35906.D

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

Response Factor Report MSF

Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)
 Title : Semi Volatile Extractables by GC/MS
 Last Update : Thu Jun 12 08:49:00 2014
 Response via : Initial Calibration

Calibration Files

2 =F35912.D 5 =F35911.D 25 =F35907.D 80 =F35909.D
 100 =F35908.D 50 =F35906.D 10 =F35910.D 1 =F35913.D

Compound	2	5	25	80	100	50	10	1	Avg %RSD
1) I 1,4-Dichlorobenzene-d	-----ISTD-----								
2) 1,4-Dioxane	0.650	0.635	0.731	0.646	0.630	0.682	0.730	1.010	0.714 17.65
3) Pyridine	1.660	1.731	1.679	1.643	1.590	1.709	1.720	1.747	1.685 3.11
4) N-Nitrosodim	0.951	0.753	0.729	0.676	0.625	0.683	0.708	0.634	0.720 14.31
5) 2-Fluorophen	1.389	1.500	1.481	1.431	1.359	1.463	1.500	1.424	1.443 3.59
6) Indene	2.738	2.948	2.654	2.322	2.187	2.483	2.740	2.791	2.608 9.83
7) Cumene	3.825	3.981	3.648	3.222	3.048	3.465	3.754	3.805	3.594 8.98
8) Phenol-d5	1.740	1.927	1.886	1.783	1.692	1.847	1.877	1.707	1.807 4.93
9) Phenol	1.980	2.126	1.992	1.994	1.867	1.918	1.984	2.004	1.983 3.76
10) Aniline	2.463	2.664	2.491	2.276	2.158	2.389	2.519	2.471	2.429 6.38
11) bis(2-Chloro	1.492	1.535	1.405	1.311	1.249	1.345	1.413	1.513	1.408 7.24
12) 2-Chlorophen	1.582	1.688	1.595	1.474	1.414	1.563	1.655	1.581	1.569 5.67
13) Decane	1.736	1.852	1.634	1.385	1.271	1.478	1.690	1.881	1.616 13.59
14) 1,3-Dichloro	1.822	1.895	1.744	1.579	1.522	1.688	1.804	1.781	1.729 7.32
15) 1,4-Dichloro	1.703	1.859	1.715	1.552	1.502	1.667	1.789	1.947	1.717 8.65
16) Benzyl alcoh	1.005	1.076	1.087	1.039	0.990	1.068	1.101	0.993	1.045 4.26
17) 1,2-Dichloro	1.684	1.796	1.626	1.441	1.376	1.539	1.702	1.765	1.616 9.38
18) Acetophenone	2.277	2.283	2.062	1.820	1.693	1.941	2.175	2.164	2.052 10.52
19) 2-Methylphen	1.432	1.505	1.449	1.355	1.288	1.416	1.449	1.464	1.420 4.82
20) 2,2'-oxybis(	0.497	0.526	0.485	0.445	0.421	0.463	0.490	0.487	0.477 6.90
21) 3&4-Methylph	1.454	1.619	1.521	1.374	1.298	1.454	1.520	1.428	1.459 6.74
22) n-Nitroso-di	1.047	1.123	1.021	0.879	0.821	0.955	1.073	1.024	0.993 10.21
23) Hexachloroet	0.517	0.572	0.552	0.509	0.499	0.552	0.561	0.567	0.541 5.26
24) I Naphthalene-d8	-----ISTD-----								
25) Nitrobenzene	0.405	0.481	0.414	0.391	0.370	0.403	0.453	0.458	0.422 9.03
26) Nitrobenzene	0.436	0.465	0.443	0.411	0.384	0.423	0.441	0.434	0.430 5.61
27) Quinoline	0.841	0.916	0.853	0.792	0.766	0.831	0.876	0.890	0.846 5.90
28) Isophorone	0.734	0.809	0.781	0.716	0.668	0.738	0.767	0.755	0.746 5.74
29) 2-Nitropheno	0.174	0.208	0.225	0.220	0.206	0.224	0.221	0.168	0.206 10.90
30) 2,4-Dimethyl	0.392	0.422	0.396	0.371	0.351	0.383	0.412	0.396	0.390 5.78
31) Benzoic acid		0.112	0.206	0.272	0.288	0.267	0.166		0.218 31.87
----- Quadratic regression -----									Coefficient = 0.9989
Response Ratio = -0.02220 + 0.25072 *A + 0.01811 *A^2									
32) bis(2-Chloro	0.442	0.484	0.445	0.413	0.390	0.426	0.458	0.454	0.439 6.56
33) 2,4-Dichloro	0.293	0.330	0.338	0.317	0.301	0.329	0.342	0.290	0.317 6.52
34) 2,6-Dichloro	0.313	0.345	0.325	0.299	0.287	0.319	0.341	0.161	0.299 19.79
35) 1,3,5-Trichl	0.405	0.412	0.380	0.338	0.322	0.364	0.403	0.415	0.380 9.31
36) 1,2,4-Trichl	0.373	0.394	0.363	0.328	0.316	0.348	0.374	0.413	0.364 8.92
37) 1,2,3-Trichl	0.377	0.385	0.353	0.321	0.305	0.341	0.369	0.379	0.354 8.27
38) Naphthalene	1.271	1.324	1.209	1.055	0.991	1.127	1.259	1.323	1.195 10.44
39) 4-Chloroanil	0.483	0.551	0.534	0.479	0.462	0.513	0.554	0.535	0.514 6.83
40) 2,3-Dichloro	0.410	0.449	0.413	0.365	0.348	0.393	0.440	0.438	0.407 8.93
41) Caprolactam	0.181	0.198	0.197	0.186	0.189	0.198	0.190	0.168	0.188 5.39
42) Hexachlorobu	0.189	0.198	0.185	0.169	0.164	0.183	0.189	0.199	0.185 6.82

8.7.31

8

Initial Calibration Summary

Job Number: JB70517

Sample: EF5692-ICC5692

Account: LANGAN Langan Engineering & Environmental

Lab FileID: F35906.D

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

43)	4-Chloro-3-m	0.318	0.343	0.350	0.330	0.316	0.338	0.342	0.314	0.331	4.22
44)	2-Methylnaph	0.741	0.769	0.705	0.627	0.590	0.661	0.722	0.752	0.696	9.17
45)	1-Methylnaph	0.845	0.866	0.805	0.724	0.686	0.769	0.825	0.900	0.803	9.02
46)	Dimethylnaph	0.743	0.781	0.725	0.649	0.621	0.693	0.750	0.753	0.714	7.78
47)	I Acenaphthene-d10	-----ISTD-----									
48)	Hexachlorocy	0.229	0.282	0.321	0.327	0.313	0.337	0.317	0.221	0.294	15.37
49)	2,4,6-Trichl	0.349	0.395	0.386	0.368	0.349	0.389	0.412	0.351	0.375	6.42
50)	2,4,5-Trichl	0.365	0.388	0.401	0.378	0.381	0.417	0.429	0.337	0.387	7.50
51)	2-Fluorobiph	1.452	1.514	1.378	1.277	1.209	1.358	1.453	1.506	1.393	7.83
52)	2-Chloronaph	1.339	1.394	1.243	1.152	1.098	1.223	1.347	1.393	1.273	8.78
53)	Biphenyl	1.819	1.846	1.693	1.544	1.464	1.646	1.790	1.861	1.708	8.62
54)	2-Nitroanili	0.292	0.361	0.374	0.384	0.368	0.384	0.362	0.291	0.352	10.89
55)	Dimethylphth	1.323	1.415	1.311	1.237	1.185	1.303	1.375	1.365	1.314	5.72
56)	Acenaphthyle	2.080	2.232	2.047	1.881	1.798	2.008	2.128	2.085	2.032	6.77
57)	2,6-Dinitrot	0.249	0.298	0.312	0.312	0.308	0.325	0.316	0.220	0.293	12.75
58)	3-Nitroanili	0.306	0.370	0.382	0.384	0.372	0.400	0.384	0.253	0.356	14.15
59)	Acenaphthene	1.352	1.421	1.271	1.169	1.126	1.235	1.340	1.376	1.286	8.08
60)	2,4-Dinitrop		0.065	0.138	0.170	0.177	0.171	0.109		0.138	32.11
----- Linear regression ----- Coefficient = 0.9988											
Response Ratio = -0.03884 + 0.18295 *A											
61)	4-Nitropheno	0.107	0.154	0.167	0.183	0.183	0.188	0.178		0.166	17.25
62)	Dibenzofuran	1.870	1.945	1.757	1.595	1.529	1.715	1.872	1.954	1.780	8.92
63)	2,4-Dinitrot	0.310	0.406	0.420	0.417	0.410	0.437	0.425	0.273	0.387	15.65
64)	2,3,4,6-Tetr	0.238	0.299	0.319	0.313	0.310	0.343	0.330	0.230	0.298	13.92
65)	Diethylphtha	1.289	1.400	1.306	1.231	1.194	1.311	1.366	1.338	1.304	5.17
66)	Fluorene	1.469	1.545	1.397	1.300	1.246	1.367	1.482	1.516	1.415	7.50
67)	4-Chlorophen	0.643	0.676	0.623	0.582	0.565	0.624	0.666	0.651	0.629	6.23
68)	4-Nitroanili	0.311	0.370	0.374	0.376	0.382	0.391	0.407	0.262	0.359	13.42
69)	I Phenanthrene-d10	-----ISTD-----									
70)	4,6-Dinitro-		0.078	0.129	0.145	0.151	0.153	0.117		0.129	22.00
----- Linear regression ----- Coefficient = 0.9986											
Response Ratio = -0.01003 + 0.15382 *A											
71)	n-Nitrosodip	0.555	0.612	0.583	0.555	0.534	0.581	0.607	0.578	0.576	4.62
72)	1,2-Diphenyl	0.895	0.967	0.912	0.862	0.810	0.885	0.916	0.894	0.893	5.05
73)	2,4,6-Tribo	0.073	0.088	0.097	0.095	0.093	0.104	0.101	0.066	0.090	15.14
74)	4-Bromopheny	0.209	0.233	0.217	0.206	0.202	0.222	0.222	0.216	0.216	4.63
75)	Hexachlorobe	0.247	0.258	0.233	0.218	0.212	0.237	0.252	0.259	0.239	7.40
76)	Pentachlorop	0.081	0.116	0.135	0.138	0.141	0.152	0.142		0.129	18.42
77)	Phenanthrene	1.286	1.337	1.222	1.123	1.091	1.193	1.279	1.377	1.238	8.09
78)	Anthracene	1.224	1.318	1.255	1.152	1.102	1.233	1.285	1.258	1.228	5.74
79)	Carbazole	1.177	1.259	1.169	1.101	1.102	1.193	1.283	1.129	1.177	5.74
80)	Di-n-butylph	1.108	1.304	1.351	1.293	1.267	1.363	1.360	1.051	1.262	9.41
81)	Fluoranthene	1.233	1.307	1.264	1.182	1.199	1.305	1.368	1.192	1.256	5.29
82)	Octadecane	0.515	0.609	0.615	0.584	0.551	0.599	0.598	0.485	0.569	8.39
83)	I Chrysene-d12	-----ISTD-----									
84)	Pyrene	1.370	1.524	1.488	1.471	1.324	1.435	1.474	1.348	1.429	5.11
85)	Terphenyl-d1	0.851	0.949	0.940	0.937	0.855	0.933	0.936	0.873	0.909	4.58
86)	Butylbenzylp	0.462	0.575	0.619	0.658	0.620	0.642	0.595	0.432	0.575	14.52
87)	Butyl steara	0.250	0.355	0.441	0.488	0.429	0.450	0.388		0.400	19.74
88)	Benzo[a]anth	1.324	1.325	1.215	1.205	1.145	1.226	1.278	1.441	1.270	7.30
89)	3,3'-Dichlor	0.339	0.412	0.431	0.434	0.424	0.458	0.442	0.312	0.407	12.83
90)	Chrysene	1.295	1.300	1.154	1.089	1.048	1.144	1.225	1.503	1.220	11.95
91)	bis(2-Ethylh	0.586	0.754	0.841	0.898	0.837	0.879	0.802	0.501	0.762	18.85
92)	I Perylene-d12	-----ISTD-----									

Initial Calibration Summary

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Job Number: JB70517

Sample: EF5692-ICC5692

Account: LANGAN Langan Engineering & Environmental

Lab FileID: F35906.D

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

93)	Di-n-octylph	0.987	1.387	1.736	1.799	1.666	1.757	1.556	1.555	18.49
94)	Benzo[b]fluo	1.543	1.638	1.551	1.581	1.405	1.541	1.586	1.631	4.66
95)	Benzo[k]fluo	1.633	1.691	1.469	1.305	1.323	1.447	1.606	1.803	11.56
96)	Benzo[a]pyre	1.250	1.392	1.317	1.324	1.257	1.356	1.360	1.285	3.88
97)	Indeno[1,2,3	0.968	1.143	1.189	1.296	1.221	1.279	1.199	1.059	9.44
98)	Dibenz(a,h)a	0.888	1.039	1.104	1.165	1.109	1.171	1.103	0.841	11.76
99)	Dibenz[a,h]a	1.026	1.190	1.235	1.300	1.221	1.274	1.228	1.158	7.02
100)	7,12-Dimethy	0.650	0.727	0.734	0.713	0.676	0.733	0.753	0.677	5.08
101)	Benzo[g,h,i]	1.155	1.249	1.254	1.288	1.216	1.285	1.260	1.251	3.44

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

MF5692.M

Thu Jun 12 08:52:55 2014 RT1

8.7.31

8

Initial Calibration Summary

Page 1 of 1

Job Number: JB70517

Sample: EF5693-ICC5693

Account: LANGAN Langan Engineering & Environmental

Lab FileID: F35915.D

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

Response Factor Report MSF

Method : C:\MSDCHEM\1\METHODS\MF5693.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 12 15:41:26 2014
Response via : Initial Calibration

Calibration Files

2 =F35921.D 5 =F35920.D 25 =F35916.D 80 =F35918.D
100 =F35917.D 50 =F35915.D 10 =F35919.D 1 =F35922.D

Compound	2	5	25	80	100	50	10	1	Avg %RSD
159) I 1,4-Dichlorobenzene-d	-----	-----	-----	-----	-----	-----	-----	-----	-----
160) Benzaldehyde	1.130	1.132	1.015	0.879	0.812	0.550	1.198	1.146	0.983 22.62
161) I Naphthalene-d8b	-----	-----	-----	-----	-----	-----	-----	-----	-----
162) Hydroquinone	0.252	0.341	0.404	0.382	0.340	0.355		0.346	15.09
163) Acenaphthene-d10b	-----	-----	-----	-----	-----	-----	-----	-----	-----
164) 1,2,4,5-Tetr	0.582	0.585	0.599	0.550	0.554	0.492	0.599	0.552	0.564 6.30
165) Phenanthrene-d10b	-----	-----	-----	-----	-----	-----	-----	-----	-----
166) Atrazine	0.182	0.192	0.214	0.212	0.209	0.178	0.222	0.153	0.195 11.86
167) Chrysene-d12b	-----	-----	-----	-----	-----	-----	-----	-----	-----
168) Benzidine	0.403	0.612	0.571	0.349	0.343	0.319	0.772	0.348	0.465 35.86

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

MF5692.M

Thu Jun 12 15:58:09 2014

RT1

8.7.32

8

Initial Calibration Verification

Job Number: JB70517

Sample: EF5693-ICV5692

Account: LANGAN Langan Engineering & Environmental

Lab FileID: F35924.D

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

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\EF5693\F35924.D

Vial: 11

Acq On : 12 Jun 2014 1:22 pm

Operator: ashleyd

Sample : icv5692-50

Inst : MSF

Misc : op74333,ef5693,bn1

Multiplr: 1.00

MS Integration Params: LSCINT.P

Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Thu Jun 12 15:41:26 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	133	0.00	4.93
3 t	Pyridine	1.685	1.464	13.1	114	0.00	2.85
4 t	N-Nitrosodimethylamine	0.720	0.567	21.3	111	0.00	2.82
11 t	bis(2-Chloroethyl)ether	1.408	1.236	12.2	122	0.00	4.73
14 t	1,3-Dichlorobenzene	1.729	1.428	17.4	113	0.00	4.89
15 t	1,4-Dichlorobenzene	1.717	1.395	18.8	111	0.00	4.94
16 t	Benzyl alcohol	1.045	0.883	15.5	110	0.00	5.03
17 t	1,2-Dichlorobenzene	1.616	1.348	16.6	117	0.00	5.06
20 t	2,2'-oxybis(1-Chloropropa	0.477	0.432	9.4	124	0.00	5.12
22 t	n-Nitroso-di-n-propylamin	0.993	0.882	11.2	123	0.00	5.21
23 t	Hexachloroethane	0.541	0.473	12.6	114	0.00	5.31
24 I	Naphthalene-d8	1.000	1.000	0.0	127	0.00	5.86
26 t	Nitrobenzene	0.430	0.362	15.8	109	0.00	5.34
28 t	Isophorone	0.746	0.608	18.5	105	0.00	5.51
32 t	bis(2-Chloroethoxy)methan	0.439	0.399	9.1	119	0.00	5.66
36 t	1,2,4-Trichlorobenzene	0.364	0.310	14.8	113	0.00	5.81
38 t	Naphthalene	1.195	0.981	17.9	111	0.00	5.87
42 t	Hexachlorobutadiene	0.185	0.162	12.4	113	0.00	5.96
44 t	2-Methylnaphthalene	0.696	0.560	19.5	108	0.00	6.39
47 I	Acenaphthene-d10	1.000	1.000	0.0	128	0.00	7.35
48 t	Hexachlorocyclopentadiene	0.294	0.248	15.6	94	0.00	6.52
52 t	2-Chloronaphthalene	1.273	1.047	17.8	109	0.00	6.80
54 t	2-Nitroaniline	0.352	0.303	13.9	101	0.00	6.89
55 t	Dimethylphthalate	1.314	1.114	15.2	109	0.00	7.05
56 t	Acenaphthylene	2.032	1.477	27.3	94	0.00	7.20
57 t	2,6-Dinitrotoluene	0.293	0.253	13.7	99	0.00	7.11
58 t	3-Nitroaniline	0.356	0.285	19.9	91	0.00	7.28
59 t	Acenaphthene	1.286	1.099	14.5	114	0.00	7.38
62 t	Dibenzofuran	1.780	1.475	17.1	110	0.00	7.57
63 t	2,4-Dinitrotoluene	0.387	0.324	16.3	95	0.00	7.53
65 t	Diethylphthalate	1.304	1.097	15.9	107	0.00	7.82
66 t	Fluorene	1.415	1.166	17.6	109	0.00	7.97
67 t	4-Chlorophenyl-phenylethe	0.629	0.544	13.5	111	0.00	7.97
68 t	4-Nitroaniline	0.359	0.298	17.0	97	0.00	7.99
69 I	Phenanthrene-d10	1.000	1.000	0.0	122	0.00	9.32
71 t	n-Nitrosodiphenylamine	0.576	0.526	8.7	111	0.00	8.12
72 t	1,2-Diphenylhydrazine	0.893	0.765	14.3	105	0.00	8.17
74 t	4-Bromophenyl-phenylether	0.216	0.199	7.9	109	0.00	8.63

Initial Calibration Verification

Page 2 of 2

Job Number: JB70517

Account: LANGAN Langan Engineering & Environmental

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

Sample: EF5693-ICV5692

Lab FileID: F35924.D

75	t	Hexachlorobenzene	0.239	0.198	17.2	102	0.00	8.74
77	t	Phenanthrene	1.238	1.027	17.0	105	0.00	9.36
78	t	Anthracene	1.228	1.058	13.8	105	0.00	9.44
79	t	Carbazole	1.177	0.997	15.3	102	0.00	9.72
80	t	Di-n-butylphthalate	1.262	1.164	7.8	104	0.00	10.42
81	t	Fluoranthene	1.256	1.086	13.5	102	0.00	11.56
83	I	Chrysene-d12	1.000	1.000	0.0	119	0.00	14.68
84	t	Pyrene	1.429	1.213	15.1	101	0.00	12.02
86	t	Butylbenzylphthalate	0.575	0.537	6.6	100	0.00	13.60
88	t	Benzo[a]anthracene	1.270	1.035	18.5	101	0.00	14.66
90	t	Chrysene	1.220	1.030	15.6	108	0.00	14.74
91	t	bis(2-Ethylhexyl)phthalat	0.762	0.732	3.9	99	0.00	15.00
92	I	Perylene-d12	1.000	1.000	0.0	138	0.00	17.74
93	t	Di-n-octylphthalate	1.555	1.341	13.8	105	0.00	16.44
94	t	Benzo[b]fluoranthene	1.560	1.152	26.2	103	0.00	16.98
95	t	Benzo[k]fluoranthene	1.535	1.181	23.1	113	0.00	17.04
96	t	Benzo[a]pyrene	1.318	1.068	19.0	109	0.00	17.62
97	t	Indeno[1,2,3-cd]pyrene	1.169	0.988	15.5	107	0.00	19.69
99	t	Dibenz[a,h]anthracene	1.204	1.019	15.4	110	0.00	19.74
101	t	Benzo[g,h,i]perylene	1.245	1.059	14.9	114	0.00	20.13

(#) = Out of Range
F35915.D MF5692.M

SPCC's out = 0 CCC's out = 0
Thu Jun 12 16:03:39 2014 RT1

8.7.33

8

Initial Calibration Verification

Page 1 of 1

Job Number: JB70517

Sample: EF5693-ICV5693

Account: LANGAN Langan Engineering & Environmental

Lab FileID: F35924A.D

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

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\EF5693\F35924A.D Vial: 11
Acq On : 12 Jun 2014 1:22 pm Operator: ashleyd
Sample : icv5693-50 Inst : MSF
Misc : op74333,ef5693,bn1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 12 15:41:26 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.
163	Acenaphthene-d10b	1.000	1.000	0.0	78	0.00	7.35
164	1,2,4,5-Tetrachlorobenzen	0.564	0.560	0.7	89	0.00	6.53

(#) = Out of Range

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

F35915.D MF5692.M

Thu Jun 12 16:03:40 2014 RT1

8.7.34

8

Initial Calibration Verification

Page 1 of 1

Job Number: JB70517

Sample: EF5693-ICV5692

Account: LANGAN Langan Engineering & Environmental

Lab FileID: F35925.D

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

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\EF5693\F35925.D

Vial: 12

Acq On : 12 Jun 2014 1:51 pm

Operator: ashleyd

Sample : icv5692-50

Inst : MSF

Misc : op74333,ef5693,bn2

Multiplr: 1.00

MS Integration Params: LSCINT.P

Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Thu Jun 12 15:41:26 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	119	0.00	4.93
2 t	1,4-Dioxane	0.714	0.580	18.8	102	0.00	2.54
6 t	Indene	2.608	2.322	11.0	112	0.00	5.12
7 t	Cumene	3.594	2.993	16.7	103	0.00	4.35
13 t	Decane	1.616	1.212	25.0	98	0.00	4.81
18 t	Acetophenone	2.052	1.748	14.8	107	0.00	5.21
24 I	Naphthalene-d8	1.000	1.000	0.0	131	0.00	5.85
27 t	Quinoline	0.846	0.637	24.7	100	0.00	6.11
40 t	2,3-Dichloroaniline	0.407	0.285	30.0	95	0.00	6.62
41 t	Caprolactam	0.188	0.134	28.7	88	-0.03	6.14
45 t	1-Methylnaphthalene	0.803	0.602	25.0	102	0.00	6.47
46 t	Dimethylnaphthalene	0.714	0.545	23.7	103	0.00	6.92
47 I	Acenaphthene-d10	1.000	1.000	0.0	119	0.00	7.34
53 t	Biphenyl	1.708	1.406	17.7	102	0.00	6.77

(#) = Out of Range

F35915.D MF5692.M

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

Thu Jun 12 16:03:41 2014 RT1

Initial Calibration Verification

Page 1 of 1

Job Number: JB70517

Sample: EF5693-ICV5693

Account: LANGAN Langan Engineering & Environmental

Lab FileID: F35925A.D

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

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\EF5693\F35925A.D Vial: 12
 Acq On : 12 Jun 2014 1:51 pm Operator: ashleyd
 Sample : icv5693-50 Inst : MSF
 Misc : op74333,ef5693,bn2 Multiplr: 1.00
 MS Integration Params: LSCINT.P

Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)
 Title : Semi Volatile Extractables by GC/MS
 Last Update : Thu Jun 12 15:41:26 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.
159 I	1,4-Dichlorobenzene-d4b	1.000	1.000	0.0	71	0.00	4.93
160 t	Benzaldehyde	0.983	1.102	-12.1	143	0.00	4.61
165	Phenanthrene-d10b	1.000	1.000	0.0	66	0.00	9.32
166	Atrazine	0.195	0.204	-4.6	76	0.00	8.88

(#) = Out of Range
 F35915.D MF5692.M

SPCC's out = 0 CCC's out = 0
 Thu Jun 12 16:03:42 2014 RT1

8.7.36

8

Initial Calibration Verification

Page 1 of 1

Job Number: JB70517

Sample: EF5693-ICV5692

Account: LANGAN Langan Engineering & Environmental

Lab FileID: F35926.D

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

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\EF5693\F35926.D

Vial: 13

Acq On : 12 Jun 2014 2:20 pm

Operator: ashleyd

Sample : icv5692-50

Inst : MSF

Misc : op74333,ef5693,surr

Multiplr: 1.00

MS Integration Params: LSCINT.P

Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Thu Jun 12 15:41:26 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	146	0.00	4.93
5 S	2-Fluorophenol	1.443	1.151	20.2	115	0.00	3.95
8 S	Phenol-d5	1.807	1.390	23.1	110	0.00	4.65
24 I	Naphthalene-d8	1.000	1.000	0.0	138	0.00	5.85
25 S	Nitrobenzene-d5	0.422	0.339	19.7	116	0.00	5.33
47 I	Acenaphthene-d10	1.000	1.000	0.0	139	0.00	7.34
51 S	2-Fluorobiphenyl	1.393	1.162	16.6	119	0.00	6.68
69 I	Phenanthrene-d10	1.000	1.000	0.0	129	0.00	9.32
73 S	2,4,6-Tribromophenol	0.090	0.080	11.1	99	0.00	8.28
83 I	Chrysene-d12	1.000	1.000	0.0	125	0.00	14.68
85 S	Terphenyl-d14	0.909	0.793	12.8	106	0.00	12.43

(#) = Out of Range
F35915.D MF5692.M

SPCC's out = 0 CCC's out = 0
Thu Jun 12 16:03:43 2014 RT1

8.7.37

8

Initial Calibration Verification

Page 1 of 1

Job Number: JB70517**Sample:** EF5693-ICV5692**Account:** LANGAN Langan Engineering & Environmental**Lab FileID:** F35927.D**Project:** Carroll Gardens, 363-365 Bond Street, Brooklyn, NY**Evaluate Continuing Calibration Report**

Data File : C:\MSDCHEM\1\DATA\EF5693\F35927.D Vial: 14
 Acq On : 12 Jun 2014 2:49 pm Operator: ashleyd
 Sample : icv5692-50 Inst : MSF
 Misc : op74333,ef5693,aniline Multiplr: 1.00
 MS Integration Params: LSCINT.P

Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)
 Title : Semi Volatile Extractables by GC/MS
 Last Update : Thu Jun 12 15:41:26 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	180	0.00	4.93
10 t	Aniline	2.429	2.198	9.5	165	0.00	4.69
24 I	Naphthalene-d8	1.000	1.000	0.0	176	0.00	5.86
39 t	4-Chloroaniline	0.514	0.482	6.2	165	0.00	5.90

(#) = Out of Range
 F35915.D MF5692.M

SPCC's out = 0 CCC's out = 0
 Thu Jun 12 16:03:44 2014 RT1

8.7.38

8

Initial Calibration Verification

Page 1 of 1

Job Number: JB70517

Account: LANGAN Langan Engineering & Environmental

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

Sample: EF5693-ICV5693

Lab FileID: F35928A.D

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\EF5693\F35928A.D Vial: 15
Acq On : 12 Jun 2014 3:18 pm Operator: ashleyd
Sample : icv5693-50 Inst : MSF
Misc : op74333,ef5693,benzedine Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 12 15:41:26 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.
167	Chrysene-d12b	1.000	1.000	0.0	116	0.00	14.68
168	Benzidine	0.465	0.734	-57.8#	268#	0.00	11.89

(#) = Out of Range
F35915.D MF5692.M

SPCC's out = 0 CCC's out = 0
Thu Jun 12 16:03:46 2014 RT1

8.7.39

8

Initial Calibration Verification

Page 1 of 1

Job Number: JB70517

Sample: EF5693-ICV5692

Account: LANGAN Langan Engineering & Environmental

Lab FileID: F35928.D

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

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\EF5693\F35928.D Vial: 15
Acq On : 12 Jun 2014 3:18 pm Operator: ashleyd
Sample : icv5692-50 Inst : MSF
Misc : op74333,ef5693,benzedine Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 12 15:41:26 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	187	0.00	14.68
89 t 3,3'-Dichlorobenzidine	0.407	0.364	10.6	149	0.00	14.69

(#) = Out of Range
F35915.D MF5692.M

SPCC's out = 0 CCC's out = 0
Thu Jun 12 16:03:45 2014 RT1

8.7.40

8

Initial Calibration Verification

Page 1 of 2

Job Number: JB70517

Sample: EF5695-ICV5692

Account: LANGAN Langan Engineering & Environmental

Lab FileID: F35957.D

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

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\EF5695\F35957.D Vial: 2
 Acq On : 13 Jun 2014 8:24 am Operator: kristis
 Sample : icv5692-50 Inst : MSF
 Misc : op74333,ef5695,1000,,,1,1 Multiplr: 1.00
 MS Integration Params: LSCINT.P

Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)
 Title : Semi Volatile Extractables by GC/MS
 Last Update : Thu Jun 12 15:41:26 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	103	0.00	4.93
9 t	Phenol	1.983	1.825	8.0	98	-0.01	4.65
12 t	2-Chlorophenol	1.569	1.504	4.1	99	-0.01	4.77
19 t	2-Methylphenol	1.420	1.358	4.4	99	-0.01	5.10
21 t	3&4-Methylphenol	1.459	1.406	3.6	100	-0.01	5.20
24 I	Naphthalene-d8	1.000	1.000	0.0	102	-0.01	5.85
29 t	2-Nitrophenol	0.206	0.218	-5.8	100	-0.01	5.57
30 t	2,4-Dimethylphenol	0.390	0.366	6.2	98	-0.01	5.59
	----- True Calc. % Drift -----						
31 t	Benzoic acid	50.000	52.411	-4.8	104	0.00	5.66
	----- AvgRF CCRF % Dev -----						
33 t	2,4-Dichlorophenol	0.317	0.321	-1.3	100	-0.01	5.74
34	2,6-Dichlorophenol	0.299	0.314	-5.0	101	0.00	5.90
43 t	4-Chloro-3-methylphenol	0.331	0.323	2.4	98	-0.02	6.24
47 I	Acenaphthene-d10	1.000	1.000	0.0	106	-0.01	7.34
49 t	2,4,6-Trichlorophenol	0.375	0.384	-2.4	104	-0.01	6.61
50 t	2,4,5-Trichlorophenol	0.387	0.392	-1.3	99	-0.01	6.64
	----- True Calc. % Drift -----						
60 t	2,4-Dinitrophenol	50.000	54.050	-8.1	10	0.00	7.38
	----- AvgRF CCRF % Dev -----						
61 t	4-Nitrophenol	0.166	0.176	-6.0	99	-0.01	7.44
64	2,3,4,6-Tetrachlorophenol	0.298	0.316	-6.0	97	-0.01	7.69
69 I	Phenanthrene-d10	1.000	1.000	0.0	104	-0.02	9.31
	----- True Calc. % Drift -----						
70 t	4,6-Dinitro-2-methylpheno	50.000	51.650	-3.3	103	-0.02	8.01
	----- AvgRF CCRF % Dev -----						
76 t	Pentachlorophenol	0.129	0.158	-22.5	108	0.00	9.01

8.7.41

8

Initial Calibration Verification

Job Number: JB70517
Account: LANGAN Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Sample: EF5695-ICV5692
Lab FileID: F35957.D

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F35915.D MF5692.M Fri Jun 13 13:30:55 2014 RT1

8.7.41
8

Initial Calibration Verification

Page 1 of 1

Job Number: JB70517

Sample: EF5695-ICV5693

Account: LANGAN Langan Engineering & Environmental

Lab FileID: F35958.D

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

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\EF5695\F35958.D Vial: 3
Acq On : 13 Jun 2014 8:54 am Operator: kristis
Sample : icv5693-50 Inst : MSF
Misc : op74333,ef5695,1000,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 12 15:41:26 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 I Naphthalene-d8b	1.000	1.000	0.0	80	-0.01	5.85
105 t Hydroquinone	0.346	0.446	-28.9	105	0.00	6.13

(#) = Out of Range
F35915.D MF5692.M

SPCC's out = 0 CCC's out = 0
Fri Jun 13 13:30:56 2014 RT1

8.7.42
8

Initial Calibration Summary

Page 1 of 2

Job Number: JB70517
 Account: LANGAN Langan Engineering & Environmental
 Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY
 Sample: EF5702-ICC5702
 Lab FileID: F36120.D

Response Factor Report MSF

Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)
 Title : Semi Volatile Extractables by GC/MS
 Last Update : Tue Jun 24 08:08:18 2014
 Response via : Initial Calibration

Calibration Files

2 =F36132.D 5 =F36131.D 25 =F36185.D 80 =F36127.D
 100 =F36126.D 50 =F36134.D 10 =F36130.D 1 =F36133.D

Compound	2	5	25	80	100	50	10	1	Avg %RSD
102) I 1,4-Dichlorobenzene-d	-----ISTD-----								
103) 2-Picoline	1.763	1.545	1.497	1.476	1.459	1.412	1.690	1.764	1.576 9.01
104) Pentachloroe	0.621	0.553	0.547	0.535	0.527	0.531	0.610	0.651	0.572 8.36
105) Methyl metha	0.820	0.727	0.693	0.703	0.686	0.639	0.812	0.807	0.736 9.32
106) N-Nitrosodie	0.766	0.676	0.665	0.649	0.643	0.633	0.729	0.791	0.694 8.67
107) N-Nitrosomet	0.644	0.618	0.603	0.596	0.593	0.587	0.688	0.912	0.655 16.64
108) Ethyl methan	1.102	1.044	1.006	0.967	0.947	0.960	1.126	1.240	1.049 9.67
109) N-Nitrosopyr	0.588	0.520	0.470	0.523	0.495	0.451	0.592	0.581	0.527 10.36
110) N-Nitrosomor	0.891	0.833	0.722	0.660	0.632	0.662	0.855	0.922	0.772 15.00
111) o-Toluidine	2.454	2.177	2.025	1.749	1.696	1.673	2.313	2.379	2.058 15.53
112) I Naphthalene-d8A	-----ISTD-----								
113) O,O,O-Trieth	0.200	0.178	0.168	0.164	0.161	0.162	0.191	0.211	0.179 10.66
114) N-Nitrosopip	0.230	0.204	0.204	0.203	0.198	0.202	0.224	0.220	0.211 5.68
115) A,A-Dimethyl	0.794	0.767	0.668	0.888	0.851	0.777	0.891		0.805 9.83
116) Hexachloropr	0.251	0.225	0.217	0.220	0.211	0.220	0.237		0.226 6.17
117) p-Phenylened									0.000# -1.00
118) N-Nitrosodi-	0.260	0.245	0.237	0.229	0.221	0.232	0.271		0.242 7.42
119) Safrole	0.293	0.269	0.264	0.258	0.251	0.256	0.296		0.270 6.70
120) Isosafrole	0.199	0.172	0.178	0.172	0.168	0.171	0.200		0.180 7.56
121) I Acenaphthene-d10A	-----ISTD-----								
122) Thionazin	0.177	0.158	0.157	0.156	0.148	0.156	0.184		0.162 7.88
123) Tetraethyl d	0.200	0.170	0.157	0.152	0.145	0.149	0.184		0.165 12.45
124) Phorate	0.825	0.767	0.720	0.702	0.660	0.686	0.854		0.745 9.78
125) Phenacetin		0.647	0.642	0.624	0.595	0.616	0.725		0.641 7.02
126) 1,4-Naphthoq		0.368	0.400	0.366	0.334	0.379	0.431		0.380 8.65
127) m-Dinitroben		0.172	0.187	0.189	0.186	0.183	0.196		0.185 4.29
128) Pentachlorob	0.524	0.468	0.434	0.422	0.408	0.417	0.489		0.452 9.54
129) 1-Naphthylam	1.043	0.938	0.744	0.833	0.805	0.731	1.015		0.873 14.53
130) 2-Naphthylam	1.217	1.103	1.079	1.013	0.962	0.858	1.274		1.072 13.42
131) 5-Nitro-o-to	0.365	0.374	0.377	0.354	0.347	0.346	0.413		0.368 6.31
132) I Phenanthrene-d10A	-----ISTD-----								
133) Disulfoton		0.449	0.326	0.361	0.347	0.329	0.459		0.379 15.87
134) Dinoseb		0.132	0.174	0.189	0.188	0.185	0.170		0.173 12.36
135) Dimethoate	0.344	0.323	0.311	0.284	0.270	0.284	0.346		0.309 9.86
136) 4-Aminobiphe	0.468	0.415	0.397	0.366	0.346	0.335	0.447		0.396 12.79
137) Methyl parat		0.221	0.227	0.207	0.196	0.208	0.245		0.217 8.00
138) Parathion		0.165	0.161	0.160	0.154	0.156	0.177		0.162 4.97
139) Diphenylamin	1.309	1.217	1.154	1.098	1.058	1.099	1.309		1.178 8.73
140) Isodrin	0.143	0.133	0.123	0.120	0.118	0.119	0.138		0.128 7.86
141) Diallate	0.336	0.330	0.303	0.301	0.293	0.299	0.334		0.314 5.97
142) Pentachloron	0.041	0.038	0.036	0.034	0.034	0.034	0.040		0.037# 8.27
143) Pronamide	0.365	0.351	0.353	0.343	0.333	0.340	0.388		0.353 5.25
144) 4-Nitroquino		0.060	0.097	0.099	0.091	0.098	0.089		0.089 16.54
145) Methapyrilin	0.500	0.485	0.336	0.317	0.286	0.319	0.522		0.395 25.85

8.7.43

8

Initial Calibration Summary

Page 2 of 2

Job Number: JB70517

Sample: EF5702-ICC5702

Account: LANGAN Langan Engineering & Environmental

Lab FileID: F36120.D

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

146)	sym-Trinitro	0.044	0.067	0.074	0.072	0.072	0.065	0.066	16.76
147)	I Chrysene-d12A	-----ISTD-----							
148)	Aramite	0.032	0.033	0.034	0.033	0.034	0.035	0.034#	3.90
149)	p-(Dimethyla	0.341	0.376	0.379	0.367	0.378	0.398	0.373	4.99
150)	Kepone							0.000#	-1.00
151)	Famphur	0.465	0.355	0.230	0.192	0.265	0.488	0.333	37.30
152)	2-Acetylamin	0.470	0.503	0.525	0.515	0.522	0.550	0.514	5.17
153)	3,3'-Dimethy	0.729	0.677	0.335	0.125	0.075	0.106	0.594	75.84
154)	Chlorobenzil	0.356	0.334	0.334	0.337	0.323	0.337	0.368	4.45
155)	I Perylene-d12A	-----ISTD-----							
156)	4,4-Methylen	0.130	0.128	0.124	0.100	0.091	0.103	0.144	16.26
157)	3-Methylchol	0.607	0.566	0.577	0.560	0.560	0.662	0.589	6.80
169)	I 1,4-Dichlorobenzene-d	-----ISTD-----							
170)	m-Toluidine	2.296	2.044	1.932	1.908	1.890	2.330	2.067	9.61
171)	I Naphthalene-d8c	-----ISTD-----							
172)	2-chloroanil	0.658	0.524	0.495	0.454	0.449	0.481	0.532	13.83
173)	3-chloroanil		0.495	0.462	0.432	0.428	0.451	0.499	6.59
174)	Catechol		0.223	0.323	0.356	0.359	0.348	0.324	15.83
175)	1-chloro-2-n	0.232	0.186	0.186	0.178	0.176	0.183	0.196	9.98

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

MFAP5692.M

Tue Jun 24 11:47:26 2014 RT1

8.7.43

8

Initial Calibration Verification

Page 1 of 2

Job Number: JB70517

Sample: EF5702-ICV5702

Account: LANGAN Langan Engineering & Environmental

Lab FileID: F36134.D

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

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\EF5702\F36134.D

Vial: 18

Acq On : 19 Jun 2014 3:59 am

Operator: ashleyd

Sample : ic5702-50

Inst : MSF

Misc : op74333,ef5702

Multiplr: 1.00

MS Integration Params: LSCINT.P

Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Thu Jun 19 12:03:18 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	98	0.00	4.86
103 t	2-Picoline	1.576	1.490	5.5	103	0.00	3.41
104 t	Pentachloroethane	0.572	0.472	17.5	87	0.00	4.65
105 t	Methyl methanesulfonate	0.736	0.593	19.4	91	0.00	3.75
106 t	N-Nitrosodiethylamine	0.694	0.652	6.1	101	0.00	4.06
107 t	N-Nitrosomethylethylamine	0.655	0.569	13.1	95	0.00	3.50
108 t	Ethyl methanesulfonate	1.049	0.963	8.2	98	0.00	4.29
109 t	N-Nitrosopyrrolidine	0.527	0.441	16.3	96	0.00	5.13
110 t	N-Nitrosomorpholine	0.772	0.632	18.1	93	0.00	5.16
112 I	Naphthalene-d8A	1.000	1.000	0.0	97	0.00	5.78
114 t	N-Nitrosopiperidine	0.211	0.198	6.2	96	0.00	5.38
115 t	A,A-Dimethylphenethylamin	0.805	0.780	3.1	98	0.00	5.67
116 t	Hexachloropropene	0.226	0.216	4.4	96	0.00	5.87
118 t	N-Nitrosodi-n-butylamine	0.242	0.290	-19.8	122	0.00	6.07
119 t	Safrole	0.270	0.278	-3.0	106	0.00	6.24
120 t	Isosafrole	0.180	0.281	-56.1#	160	0.00	6.66
121 I	Acenaphthene-d10A	1.000	1.000	0.0	94	0.00	7.25
125 t	Phenacetin	0.641	0.557	13.1	85	0.00	8.43
126 t	1,4-Naphthoquinone	0.380	0.324	14.7	80	0.00	6.87
128 t	Pentachlorobenzene	0.452	0.451	0.2	101	0.00	7.43
132 I	Phenanthrene-d10A	1.000	1.000	0.0	90	0.00	9.20
140 t	Isodrin	0.128	0.129	-0.8	97	0.00	11.12
141 t	Diallate	0.314	0.311	1.0	93	0.00	8.40
143 t	Pronamide	0.353	0.341	3.4	90	0.00	9.02
147 I	Chrysene-d12A	1.000	1.000	0.0	83	0.00	14.54
148 t	Aramite	0.034	0.037#	-8.8	89	0.00	12.33
149 t	p-(Dimethylamine)azobenze	0.373	0.375	-0.5	82	0.00	12.61
152 t	2-Acetylaminofluorene	0.514	0.516	-0.4	82	0.00	13.91
154 t	Chlorobenzilate	0.341	0.341	0.0	84	0.00	12.75
155 I	Perylene-d12A	1.000	1.000	0.0	89	0.00	17.60
157 t	3-Methylcholanthrene	0.589	0.605	-2.7	96	0.00	18.21

8.7.44

8

Initial Calibration Verification

Job Number: JB70517
Account: LANGAN Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Sample: EF5702-ICV5702
Lab FileID: F36134.D

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F36134.D MFAP5692.M Fri Jun 20 12:48:55 2014 RT1

8.7.44
8

Initial Calibration Verification

Page 1 of 1

Job Number: JB70517

Sample: EF5702-ICV5702

Account: LANGAN Langan Engineering & Environmental

Lab FileID: F36136.D

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

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\EF5702\F36136.D Vial: 20
Acq On : 19 Jun 2014 4:56 am Operator: ashleyd
Sample : ic5702-50 Inst : MSF
Misc : op74333,ef5702 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 19 12:03:18 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.
171 I Naphthalene-d8c	1.000	1.000	0.0	96	0.00	5.78
172 t 2-chloroaniline	0.513	0.456	11.1	91	0.00	5.48
173 t 3-chloroaniline	0.461	0.446	3.3	95	0.00	5.82

(#) = Out of Range

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

F36134.D MFAP5692.M

Fri Jun 20 12:48:56 2014 RT1

Initial Calibration Verification

Page 1 of 1

Job Number: JB70517

Sample: EF5702-ICV5702

Account: LANGAN Langan Engineering & Environmental

Lab FileID: F36137.D

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

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\EF5702\F36137.D Vial: 21
Acq On : 19 Jun 2014 5:24 am Operator: ashleyd
Sample : icv5702-50 Inst : MSF
Misc : op74333,ef5702 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jun 24 11:50:07 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	87	0.00	4.86
111 t	o-Toluidine	2.058	2.022	1.7	105	-0.01	5.17

(#) = Out of Range

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

F36134.D MFAP5692.M

Tue Jun 24 12:00:37 2014 RT1

8.7.46

8

Initial Calibration Verification

Page 1 of 1

Job Number: JB70517

Sample: EF5702-ICV5702

Account: LANGAN Langan Engineering & Environmental

Lab FileID: F36138.D

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

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\EF5702\F36138.D Vial: 22
Acq On : 19 Jun 2014 5:53 am Operator: ashleyd
Sample : ic5702-50 Inst : MSF
Misc : op74333,ef5702 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 19 12:03:18 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.
169 I	1,4-Dichlorobenzene-d4c	1.000	1.000	0.0	71	0.00	4.86
170 t	m-Toluidine	2.067	1.571	24.0	59	0.00	5.20

(#) = Out of Range

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

F36134.D MFAP5692.M

Fri Jun 20 12:48:58 2014 RT1

8.7.47

8

Initial Calibration Verification

Page 1 of 1

Job Number: JB70517

Sample: EF5702-ICV5702

Account: LANGAN Langan Engineering & Environmental

Lab FileID: F36139.D

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

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\EF5702\F36139.D Vial: 23
Acq On : 19 Jun 2014 6:21 am Operator: ashleyd
Sample : ic5702-50 Inst : MSF
Misc : op74333,ef5702 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 19 12:03:18 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.
171 I	Naphthalene-d8c	1.000	1.000	0.0	70	0.00	5.78
175 t	1-chloro-2-nitrobenzene	0.191	0.194	-1.6	75	0.00	6.03

(#) = Out of Range

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

F36134.D MFAP5692.M

Fri Jun 20 12:48:59 2014 RT1

Continuing Calibration Summary

Job Number: JB70517

Sample: EF5726-CC5692

Account: LANGAN Langan Engineering & Environmental

Lab FileID: F36785.D

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

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\EF5726\F36785.D

Vial: 2

Acq On : 6 Jul 2014 2:08 pm

Operator: ashleyd

Sample : cc5692-50

Inst : MSF

Misc : op74333,ef5726

Multiplr: 1.00

MS Integration Params: LSCINT.P

Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Sat Jul 05 11:45:00 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.
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	88	0.00	4.66
2 t	1,4-Dioxane	0.714	0.606	15.1	79	0.00	2.22
3 t	Pyridine	1.685	1.555	7.7	80	0.00	2.56
4 t	N-Nitrosodimethylamine	0.720	0.869	-20.7#	112	0.00	2.52
5 S	2-Fluorophenol	1.443	1.333	7.6	81	0.00	3.71
6 t	Indene	2.608	2.448	6.1	87	0.00	4.86
7 t	Cumene	3.594	3.496	2.7	89	0.00	4.08
8 S	Phenol-d5	1.807	1.712	5.3	82	0.00	4.42
9 t	Phenol	1.983	1.899	4.2	88	0.00	4.43
10 t	Aniline	2.429	1.942	20.0	72	0.00	4.43
11 t	bis(2-Chloroethyl)ether	1.408	1.295	8.0	85	0.00	4.47
12 t	2-Chlorophenol	1.569	1.430	8.9	81	0.00	4.53
13 t	Decane	1.616	1.872	-15.8	112	0.00	4.55
14 t	1,3-Dichlorobenzene	1.729	1.549	10.4	81	0.00	4.63
15 t	1,4-Dichlorobenzene	1.717	1.565	8.9	83	0.00	4.68
16 t	Benzyl alcohol	1.045	0.967	7.5	80	0.00	4.77
17 t	1,2-Dichlorobenzene	1.616	1.450	10.3	83	0.00	4.79
18 t	Acetophenone	2.052	2.023	1.4	92	0.00	4.96
19 t	2-Methylphenol	1.420	1.293	8.9	81	0.00	4.87
20 t	2,2'-oxybis(1-Chloropropa	0.477	0.452	5.2	86	0.00	4.86
21 t	3&4-Methylphenol	1.459	1.399	4.1	85	0.00	4.97
22	n-Nitroso-di-n-propylamin	0.993	1.051	-5.8	97	0.00	4.96
23 t	Hexachloroethane	0.541	0.525	3.0	84	0.00	5.04
24 I	Naphthalene-d8	1.000	1.000	0.0	91	0.00	5.59
25 S	Nitrobenzene-d5	0.422	0.429	-1.7	97	0.00	5.07
26 t	Nitrobenzene	0.430	0.435	-1.2	93	0.00	5.09
27 t	Quinoline	0.846	0.760	10.2	83	0.00	5.84
28 t	Isophorone	0.746	0.722	3.2	89	0.00	5.26
29 t	2-Nitrophenol	0.206	0.207	-0.5	84	0.00	5.32
30 t	2,4-Dimethylphenol	0.390	0.361	7.4	86	0.00	5.35
	----- True		Calc.	% Drift	-----		
31 t	Benzoic acid	50.000	63.764	-27.5#	115	0.01	5.44
	----- AvgRF		CCRF	% Dev	-----		
32 t	bis(2-Chloroethoxy)methan	0.439	0.406	7.5	87	0.00	5.41
33 t	2,4-Dichlorophenol	0.317	0.301	5.0	83	0.00	5.50
34	2,6-Dichlorophenol	0.299	0.293	2.0	83	0.00	5.65
35	1,3,5-Trichlorobenzene	0.380	0.336	11.6	84	0.00	5.32
36 t	1,2,4-Trichlorobenzene	0.364	0.314	13.7	82	0.00	5.55
37	1,2,3-Trichlorobenzene	0.354	0.316	10.7	84	0.00	5.71

Continuing Calibration Summary

Page 2 of 3

Job Number: JB70517

Sample: EF5726-CC5692

Account: LANGAN Langan Engineering & Environmental

Lab FileID: F36785.D

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

38 t	Naphthalene	1.195	1.066	10.8	86	0.00	5.60
39 t	4-Chloroaniline	0.514	0.456	11.3	81	0.00	5.64
40 t	2,3-Dichloroaniline	0.407	0.371	8.8	86	0.00	6.32
41 t	Caprolactam	0.188	0.217	-15.4	99	0.01	5.90
42 t	Hexachlorobutadiene	0.185	0.179	3.2	89	0.00	5.69
43 t	4-Chloro-3-methylphenol	0.331	0.344	-3.9	92	0.00	6.00
44 t	2-Methylnaphthalene	0.696	0.613	11.9	84	0.00	6.10
45 t	1-Methylnaphthalene	0.803	0.706	12.1	83	0.00	6.18
46 t	Dimethylnaphthalene	0.714	0.641	10.2	84	0.00	6.60
47 I	Acenaphthene-d10	1.000	1.000	0.0	90	0.00	6.99
48 t	Hexachlorocyclopentadiene	0.294	0.328	-11.6	88	0.00	6.22
49 t	2,4,6-Trichlorophenol	0.375	0.365	2.7	85	0.00	6.33
50 t	2,4,5-Trichlorophenol	0.387	0.398	-2.8	86	0.00	6.37
51 S	2-Fluorobiphenyl	1.393	1.278	8.3	85	0.00	6.38
52 t	2-Chloronaphthalene	1.273	1.138	10.6	84	0.00	6.49
53 t	Biphenyl	1.708	1.543	9.7	85	0.00	6.46
54 t	2-Nitroaniline	0.352	0.454	-29.0#	107	0.00	6.58
55 t	Dimethylphthalate	1.314	1.286	2.1	89	0.00	6.72
56 t	Acenaphthylene	2.032	1.875	7.7	84	0.00	6.85
57 t	2,6-Dinitrotoluene	0.293	0.307	-4.8	85	0.00	6.78
58 t	3-Nitroaniline	0.356	0.363	-2.0	82	0.00	6.95
59 t	Acenaphthene	1.286	1.172	8.9	86	0.00	7.02
----- True Calc. % Drift -----							
60 t	2,4-Dinitrophenol	100.000	111.581	-11.6	99	0.00	7.05
----- AvgRF CCRF % Dev -----							
61 t	4-Nitrophenol	0.166	0.231	-39.2#	111	-0.02	7.14
62 t	Dibenzofuran	1.780	1.583	11.1	83	0.00	7.20
63 t	2,4-Dinitrotoluene	0.387	0.415	-7.2	86	0.00	7.18
64	2,3,4,6-Tetrachlorophenol	0.298	0.312	-4.7	82	-0.01	7.34
65 t	Diethylphthalate	1.304	1.341	-2.8	92	0.00	7.44
66 t	Fluorene	1.415	1.319	6.8	87	0.00	7.58
67 t	4-Chlorophenyl-phenylether	0.629	0.597	5.1	86	0.00	7.57
68 t	4-Nitroaniline	0.359	0.345	3.9	80	0.00	7.61
69 I	Phenanthrene-d10	1.000	1.000	0.0	91	0.00	8.85
----- True Calc. % Drift -----							
70 t	4,6-Dinitro-2-methylpheno	50.000	50.826	-1.7	88	0.00	7.65
----- AvgRF CCRF % Dev -----							
71 t	n-Nitrosodiphenylamine	0.576	0.548	4.9	86	0.00	7.71
72 t	1,2-Diphenylhydrazine	0.893	0.933	-4.5	96	0.00	7.77
73 S	2,4,6-Tribromophenol	0.090	0.098	-8.9	86	0.00	7.88
74 t	4-Bromophenyl-phenylether	0.216	0.205	5.1	84	-0.01	8.20
75 t	Hexachlorobenzene	0.239	0.215	10.0	83	0.00	8.30
76 t	Pentachlorophenol	0.129	0.139	-7.8	83	-0.01	8.59
77 t	Phenanthrene	1.238	1.126	9.0	86	0.00	8.89
78 t	Anthracene	1.228	1.153	6.1	85	0.00	8.97
79 t	Carbazole	1.177	1.105	6.1	84	0.00	9.25
80 t	Di-n-butylphthalate	1.262	1.399	-10.9	93	0.00	9.93
81 t	Fluoranthene	1.256	1.223	2.6	85	0.00	11.02
82 t	Octadecane	0.569	0.664	-16.7	101	0.00	8.74
83 I	Chrysene-d12	1.000	1.000	0.0	97	0.00	14.10
84 t	Pyrene	1.429	1.269	11.2	86	0.00	11.46
85 S	Terphenyl-d14	0.909	0.823	9.5	86	0.00	11.88
86 t	Butylbenzylphthalate	0.575	0.646	-12.3	98	-0.01	13.04

8.7.49

8

Continuing Calibration Summary

Page 3 of 3

Job Number: JB70517

Account: LANGAN Langan Engineering & Environmental

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

Sample: EF5726-CC5692

Lab FileID: F36785.D

87	Butyl stearate	0.400	0.691	-72.7#	150	0.00	13.32
88 t	Benzo[a]anthracene	1.270	1.121	11.7	89	0.00	14.08
89 t	3,3'-Dichlorobenzidine	0.407	0.433	-6.4	92	0.00	14.11
90 t	Chrysene	1.220	1.037	15.0	88	0.00	14.15
91 t	bis(2-Ethylhexyl)phthalat	0.762	0.900	-18.1	100	-0.01	14.44
92 I	Perylene-d12	1.000	1.000	0.0	106	0.00	17.14
93 t	Di-n-octylphthalate	1.555	1.740	-11.9	105	-0.01	15.88
94 t	Benzo[b]fluoranthene	1.560	1.344	13.8	93	0.00	16.39
95 t	Benzo[k]fluoranthene	1.535	1.298	15.4	95	0.00	16.45
96 t	Benzo[a]pyrene	1.318	1.197	9.2	94	0.00	17.03
97 t	Indeno[1,2,3-cd]pyrene	1.169	1.147	1.9	95	0.00	19.09
98 t	Dibenz(a,h)acridine	1.053	1.048	0.5	95	0.00	18.72
99 t	Dibenz[a,h]anthracene	1.204	1.165	3.2	97	0.00	19.14
100 t	7,12-Dimethylbenz(a)anthr	0.708	0.623	12.0	90	0.00	16.40
101 t	Benzo[g,h,i]perylene	1.245	1.139	8.5	94	0.00	19.52

(#) = Out of Range
F35915.D MF5692.M

SPCC's out = 0 CCC's out = 0
Mon Jul 07 18:38:06 2014 RT1

8.7.49

8

Continuing Calibration Summary

Page 1 of 1

Job Number: JB70517

Sample: EF5726-CC5693

Account: LANGAN Langan Engineering & Environmental

Lab FileID: F36786.D

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

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\EF5726\F36786.D

Vial: 3

Acq On : 6 Jul 2014 2:37 pm

Operator: ashleyd

Sample : cc5693-50

Inst : MSF

Misc : op74333,ef5726

Multiplr: 1.00

MS Integration Params: LSCINT.P

Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Sat Jul 05 11:45:00 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-d4b	1.000	1.000	0.0	84	0.00	4.66
103 t	Benzaldehyde	0.983	0.823	16.3	125	-0.20	4.34
104 I	Naphthalene-d8b	1.000	1.000	0.0	85	-0.01	5.58
105 t	Hydroquinone	-----NA-----					
106	Acenaphthene-d10b	1.000	1.000	0.0	87	0.00	6.99
107	1,2,4,5-Tetrachlorobenzen	0.564	0.538	4.6	95	-0.23	6.23
108	Phenanthrene-d10b	1.000	1.000	0.0	83	-0.01	8.85
109	Atrazine	0.195	0.227	-16.4	106	-0.06	8.46
110	Chrysene-d12b	1.000	1.000	0.0	95	-0.01	14.09
111	Benzidine	0.465	0.535	-15.1	158	-0.12	11.35

(#) = Out of Range
F35915.D MF5692.M

SPCC's out = 0 CCC's out = 0
Tue Jul 08 09:04:29 2014 RT1

8.7.50

8

Continuing Calibration Summary

Page 1 of 2

Job Number: JB70517

Sample: EF5726-CC5702

Account: LANGAN Langan Engineering & Environmental

Lab FileID: F36787.D

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

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\EF5726\F36787.D

Vial: 4

Acq On : 6 Jul 2014 3:06 pm

Operator: ashleyd

Sample : cc5702-50

Inst : MSF

Misc : op74333,ef5726

Multiplr: 1.00

MS Integration Params: LSCINT.P

Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Mon Jul 07 18:25:59 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	96	0.00	4.66
103 t	2-Picoline	1.576	1.462	7.2	99	-0.06	3.21
104 t	Pentachloroethane	0.572	0.544	4.9	98	-0.06	4.46
105 t	Methyl methanesulfonate	0.736	0.739	-0.4	111	-0.07	3.55
106 t	N-Nitrosodiethylamine	0.694	0.648	6.6	98	-0.06	3.86
107 t	N-Nitrosomethylethylamine	0.655	0.892	-36.2#	146	-0.06	3.30
108 t	Ethyl methanesulfonate	1.049	1.083	-3.2	108	-0.07	4.10
109 t	N-Nitrosopyrrolidine	0.527	0.632	-19.9	134	-0.06	4.95
110 t	N-Nitrosomorpholine	0.772	0.924	-19.7	134	-0.07	4.97
111 t	o-Toluidine	2.058	1.741	15.4	100	-0.07	4.99
112 I	Naphthalene-d8A	1.000	1.000	0.0	100	0.00	5.59
113 t	O,O,O-Triethyl phosphorot	0.179	0.158	11.7	98	-0.07	5.38
114 t	N-Nitrosopiperidine	0.211	0.293	-38.9#	145	-0.06	5.19
115 t	A,A-Dimethylphenethylamin			-----NA-----			
116 t	Hexachloropropene	0.226	0.229	-1.3	104	-0.06	5.67
117 t	p-Phenylenediamine			-----NA-----			
118 t	N-Nitrosodi-n-butylamine	0.242	0.257	-6.2	110	-0.06	5.87
119 t	Safrole	0.270	0.253	6.3	98	-0.07	6.03
120 t	Isosafrole	0.180	0.165	8.3	96	-0.08	6.43
121 I	Acenaphthene-d10A	1.000	1.000	0.0	99	0.00	6.99
122 t	Thionazin	0.162	0.168	-3.7	107	-0.10	7.53
123 t	Tetraethyl dithiopyrophos	0.165	0.150	9.1	100	-0.11	7.92
124 t	Phorate	0.745	1.096	-47.1#	158	-0.11	8.10
125 t	Phenacetin	0.641	0.698	-8.9	112	-0.12	8.14
126 t	1,4-Naphthoquinone	0.380	0.360	5.3	94	-0.08	6.64
127 t	m-Dinitrobenzene	0.185	0.183	1.1	99	-0.08	6.76
128 t	Pentachlorobenzene	0.452	0.415	8.2	98	-0.09	7.16
129 t	1-Naphthylamine	0.873	0.696	20.3#	94	-0.10	7.28
130 t	2-Naphthylamine	1.072	0.785	26.8#	90	-0.10	7.36
131 t	5-Nitro-o-toluidine	0.368	0.350	4.9	100	-0.11	7.59
132 I	Phenanthrene-d10A	1.000	1.000	0.0	100	0.00	8.85
133 t	Disulfoton	0.379	0.352	7.1	108	-0.12	8.88
134 t	Dinoseb	0.173	0.192	-11.0	104	-0.12	8.88
135 t	Dimethoate	0.309	0.294	4.9	104	-0.12	8.34
136 t	4-Aminobiphenyl	0.396	0.325	17.9	98	-0.12	8.58
137 t	Methyl parathion	0.217	0.221	-1.8	107	-0.13	9.50
138 t	Parathion	0.162	0.175	-8.0	113	-0.14	10.24

8.7.51

8

Continuing Calibration Summary

Page 2 of 2

Job Number: JB70517

Sample: EF5726-CC5702

Account: LANGAN Langan Engineering & Environmental

Lab FileID: F36787.D

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

139 t	Diphenylamine	1.178	1.120	4.9	102	-0.11	7.71
140 t	Isodrin	0.128	0.125	2.3	105	-0.14	10.71
141 t	Diallate	0.314	0.320	-1.9	107	-0.11	8.09
142 t	Pentachloronitrobenzene	0.037	0.035#	5.4	104	-0.12	8.60
143 t	Pronamide	0.353	0.363	-2.8	107	-0.13	8.69
144 t	4-Nitroquinoline 1-oxide	0.089	0.083	6.7	85	-0.14	10.25
145 t	Methapyriline			-----NA-----			
146 t	sym-Trinitrobenzene	0.066	0.068	-3.0	95	-0.09	8.09
147 I	Chrysene-d12A	1.000	1.000	0.0	103	-0.02	14.09
148 t	Aramite	0.034	0.033#	2.9	100	-0.14	11.92
149 t	p-(Dimethylamine)azobenze	0.373	0.394	-5.6	108	-0.14	12.20
150 t	Kepone			-----NA-----			
151 t	Famphur			-----NA-----			
152 t	2-Acetylaminofluorene	0.514	0.516	-0.4	102	-0.17	13.49
153 t	3,3'-Dimethylbenzidine			-----NA-----			
154 t	Chlorobenzilate	0.341	0.328	3.8	101	-0.15	12.34
155 I	Perylene-d12A	1.000	1.000	0.0	106	-0.02	17.14
156 t	4,4-Methylene-bis-(2-chlo	0.117	0.096	17.9	99	-0.16	14.14
157 t	3-Methylcholanthrene	0.589	0.558	5.3	105	-0.17	17.74
158 t	Hexachlorophene			-----NA-----			

(#) = Out of Range

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

F36134.D MFAP5692.M

Mon Jul 07 18:35:08 2014 RT1

8.7.51

8

Continuing Calibration Summary

Page 1 of 1

Job Number: JB70517**Sample:** EF5726-CC5702**Account:** LANGAN Langan Engineering & Environmental**Lab FileID:** F36788.D**Project:** Carroll Gardens, 363-365 Bond Street, Brooklyn, NY**Evaluate Continuing Calibration Report**

Data File : C:\MSDCHEM\1\DATA\EF5726\F36788.D

Vial: 5

Acq On : 6 Jul 2014 3:35 pm

Operator: ashleyd

Sample : cc5702-50

Inst : MSF

Misc : op74333,ef5726

Multiplr: 1.00

MS Integration Params: LSCINT.P

Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Mon Jul 07 18:25:59 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.
169 I	1,4-Dichlorobenzene-d4c	1.000	1.000	0.0	138	0.00	4.66
170 t	m-Toluidine	2.067	1.952	5.6	143	0.00	5.02
171 I	Naphthalene-d8c	1.000	1.000	0.0	141	0.00	5.59
172 t	2-chloroaniline	0.513	0.489	4.7	143	0.00	5.29
173 t	3-chloroaniline	0.461	0.459	0.4	143	0.03	5.63
174 t	Catechol	0.322	0.364	-13.0	147	0.00	5.57
175 t	1-chloro-2-nitrobenzene	0.191	0.228	-19.4	176	0.00	5.83

(#) = Out of Range

F36134.D MFAP5692.M

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

Mon Jul 07 18:35:09 2014 RT1

Initial Calibration Summary

Page 1 of 1

Job Number: JB70517**Sample:** EZ4614-ICC4614**Account:** LANGAN Langan Engineering & Environmental**Lab FileID:** Z92845.D**Project:** Carroll Gardens, 363-365 Bond Street, Brooklyn, NY**Response Factor Report MSZ**

Method : C:\msdchem\1\METHODS\MZ4615eph.M (RTE Integrator)
 Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 Last Update : Wed Jun 25 15:21:47 2014
 Response via : Initial Calibration

Calibration Files

100 =z92843a.D 80 =z92844.D 50 =z92845.D 25 =z92846.D
 10 =z92847.D 5 =z92848.D 2 =z92849.D 1 =z92850.D

Compound	100	80	50	25	10	5	2	1	Avg %RSD
102) 1,4-Dichlorobenzene-d	-----ISTD-----								
103) Benzaldehyde	1.035	1.103	0.983	0.960	1.056	0.983	1.576	1.198	1.112 18.25
104) Phenanthrene-d10a	-----ISTD-----								
105) Atrazine	0.105	0.105	0.104	0.104	0.111	0.099	0.129	0.109	0.108 8.61
106) o-terphenyl	0.610	0.595	0.574	0.555	0.613	0.566	0.780	0.589	0.610 11.73
107) Chrysene-d12a	-----ISTD-----								
108) Benzidine	0.612	0.511	0.675	0.681	0.778	0.652	0.720	0.571	0.650 13.01
109) 1-chloroocta	0.309	0.241	0.308	0.291	0.335	0.308	0.397	0.324	0.314 13.94
110) Acenaphthene-d10a	-----ISTD-----								
111) 1,2,4,5-Tetr	0.565	0.528	0.536	0.540	0.612	0.556	0.770	0.618	0.591 13.54
112) I Naphthalene-d8a	-----ISTD-----								
113) Hydroquinone	0.329	0.356	0.315	0.293	0.291	0.215		0.300	16.04

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

MZ4615eph.M

Fri Jun 27 12:55:10 2014

RTE

8.7.53

8

Initial Calibration Verification

Page 1 of 1

Job Number: JB70517

Sample: EZ4614-ICV4614

Account: LANGAN Langan Engineering & Environmental

Lab FileID: Z92853.D

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

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\ez4614\z92853.D

Vial: 21

Acq On : 23 Jun 2014 6:30 pm

Operator: ashleyv

Sample : icv4614-50

Inst : MSZ

Misc : op75490,ez4614

Multiplr: 1.00

MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\MZ4615.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um

Last Update : Wed Jun 25 15:21:47 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	115	0.02	3.36
103	Benzaldehyde	1.112	1.025	7.8	120	0.00	2.97
104	Phenanthrene-d10a	1.000	1.000	0.0	104	0.02	8.50
105	Atrazine	0.108	0.105	2.8	105	0.01	8.23

(#) = Out of Range

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

z92845.D MZ4615.M

Wed Jun 25 15:48:24 2014 RTE

8.7.54

8

Initial Calibration Verification

Page 1 of 1

Job Number: JB70517

Sample: EZ4614-ICV4614

Account: LANGAN Langan Engineering & Environmental

Lab FileID: Z92855.D

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

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\ez4614\z92855.D Vial: 23
Acq On : 23 Jun 2014 7:21 pm Operator: ashleyv
Sample : icv4614-50 Inst : MSZ
Misc : op75490,ez4614 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\MZ4615.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
Last Update : Wed Jun 25 15:21:47 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	224#	0.03	12.16
108	Benzidine	0.650	0.620	4.6	206#	0.00	10.31

(#) = Out of Range
z92845.D MZ4615.M

SPCC's out = 0 CCC's out = 0
Wed Jun 25 15:48:26 2014 RTE

8.7.55

8

Initial Calibration Verification

Page 1 of 1

Job Number: JB70517

Sample: EZ4614-ICV4614

Account: LANGAN Langan Engineering & Environmental

Lab FileID: Z92856.D

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

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\ez4614\z92856.D Vial: 24
Acq On : 23 Jun 2014 7:47 pm Operator: ashleyv
Sample : icv4614-50 Inst : MSZ
Misc : op75490,ez4614 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\MZ4615.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
Last Update : Wed Jun 25 15:21:47 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	91	0.02	4.68
113	Hydroquinone	0.300	0.378	-26.0	110	-0.04	5.24

(#) = Out of Range
z92845.D MZ4615.M

SPCC's out = 0 CCC's out = 0
Wed Jun 25 15:48:28 2014 RTE

8.7.56

8

Initial Calibration Summary

Page 1 of 3

Job Number: JB70517

Sample: EZ4615-ICC4615

Account: LANGAN Langan Engineering & Environmental

Lab FileID: Z92862.D

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

Response Factor Report MSZ

Method : C:\msdchem\1\METHODS\MZ4615.M (RTE Integrator)
 Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 Last Update : Wed Jun 25 15:21:47 2014
 Response via : Initial Calibration

Calibration Files

100 =z92863.D 80 =z92869.D 50 =z92862.D 25 =z92868.D
 10 =z92867.D 5 =z92866.D 2 =z92865.D 1 =z92864.D

Compound	100	80	50	25	10	5	2	1	Avg	%RSD
1) I 1,4-Dichlorobenzene-d	-----ISTD-----									
2) 1,4-Dioxane	0.266	0.317	0.256	0.311	0.254	0.262	0.113	0.235	0.252	24.93
3) Pyridine	0.836	0.942	0.774	0.836	0.838	0.826	0.819	0.773	0.830	6.30
4) N-Nitrosodim	0.474	0.541	0.455	0.491	0.506	0.481	0.471	0.413	0.479	7.80
5) 2-Fluorophen	1.174	1.152	1.090	1.013	0.988	0.984	0.899	0.844	1.018	11.40
6) Indene	2.429	2.381	2.364	2.214	2.251	2.281	2.306	2.080	2.288	4.82
7) Cumene	3.397	3.371	3.223	3.100	3.026	3.081	2.952	2.981	3.141	5.45
8) Phenol-d5	1.663	1.647	1.538	1.437	1.372	1.380	1.303	1.177	1.440	11.68
9) Phenol	1.919	1.894	1.785	1.615	1.575	1.547	1.519	1.510	1.670	10.15
10) Aniline	1.827	1.811	1.772	1.702	1.759	1.785	1.752	1.743	1.769	2.24
11) bis(2-Chloro	1.111	1.091	1.093	1.070	1.029	1.152	1.101	1.050	1.087	3.49
12) 2-Chlorophen	1.482	1.450	1.391	1.324	1.301	1.346	1.287	1.211	1.349	6.59
13) Decane	1.483	1.500	1.456	1.566	1.475	1.543	1.476	1.554	1.507	2.77
14) 1,3-Dichloro	1.654	1.605	1.612	1.529	1.493	1.534	1.489	1.405	1.540	5.24
15) 1,4-Dichloro	1.697	1.668	1.663	1.548	1.547	1.558	1.521	1.600	1.600	4.20
16) Benzyl alcoh	1.022	1.021	0.975	0.869	0.817	0.897	0.823	0.770	0.899	10.79
17) 1,2-Dichloro	1.626	1.607	1.561	1.460	1.464	1.476	1.488	1.408	1.511	5.13
18) Acetophenone	2.156	2.194	2.119	2.022	1.970	1.987	1.964	1.712	2.015	7.50
19) 2-Methylphen	1.296	1.278	1.252	1.158	1.145	1.230	1.059	1.087	1.188	7.48
20) 2,2'-oxybis(	0.457	0.448	0.437	0.441	0.415	0.436	0.433	0.475	0.443	4.05
21) 3&4-Methylph	1.378	1.359	1.351	1.259	1.229	1.298	1.117	1.119	1.264	8.17
22) n-Nitroso-di	1.057	1.082	1.048	0.994	1.000	1.033	0.982	0.948	1.018	4.37
23) Hexachloroet	0.596	0.575	0.576	0.565	0.574	0.573	0.511	0.618	0.573	5.29
24) I Naphthalene-d8	-----ISTD-----									
25) Nitrobenzene	0.379	0.376	0.375	0.370	0.351	0.353	0.360	0.357	0.365	3.02
26) Nitrobenzene	0.402	0.390	0.386	0.388	0.366	0.353	0.380	0.396	0.383	4.23
27) Quinoline	0.745	0.742	0.733	0.709	0.687	0.700	0.677	0.650	0.705	4.78
28) Isophorone	0.652	0.658	0.657	0.639	0.617	0.635	0.611	0.595	0.633	3.66
29) 2-Nitropheno	0.218	0.213	0.206	0.197	0.183	0.177	0.170	0.157	0.190	11.39
30) 2,4-Dimethyl	0.380	0.370	0.351	0.334	0.325	0.310	0.300	0.300	0.334	9.22
31) Benzoic Acid	0.302	0.310	0.307	0.281	0.247	0.245	0.239	0.225	0.269	12.71
32) bis(2-Chloro	0.348	0.341	0.345	0.342	0.323	0.324	0.349	0.291	0.333	5.98
33) 2,4-Dichloro	0.318	0.309	0.302	0.288	0.281	0.266	0.271	0.252	0.286	7.93
34) 2,6-Dichloro	0.328	0.317	0.305	0.292	0.274	0.284	0.254	0.262	0.289	9.04
35) 1,3,5-Trichl	0.392	0.379	0.371	0.352	0.334	0.333	0.333	0.318	0.352	7.45
36) 1,2,4-Trichl	0.359	0.347	0.344	0.329	0.313	0.322	0.332	0.307	0.332	5.32
37) 1,2,3-Trichl	0.372	0.356	0.350	0.336	0.327	0.328	0.311	0.282	0.333	8.43
38) Naphthalene	1.103	1.086	1.058	1.015	0.971	1.004	1.006	1.004	1.031	4.47
39) 4-Chloroanil	0.470	0.467	0.456	0.432	0.420	0.425	0.436	0.381	0.436	6.63
40) 2,3-Dichloro	0.409	0.402	0.396	0.379	0.364	0.380	0.369	0.355	0.382	5.02
41) Caprolactam	0.145	0.173	0.171	0.182	0.175	0.184	0.188	0.195	0.177	8.51
42) Hexachlorobu	0.227	0.224	0.215	0.212	0.200	0.212	0.212	0.195	0.212	5.08
43) 4-Chloro-3-m	0.342	0.349	0.345	0.328	0.322	0.328	0.311	0.275	0.325	7.38
44) 2-Methylnaph	0.667	0.662	0.636	0.615	0.596	0.593	0.617	0.571	0.620	5.45
45) 1-Methylnaph	0.674	0.647	0.640	0.618	0.596	0.588	0.659	0.590	0.626	5.32

8.7.57

8

Initial Calibration Summary

Job Number: JB70517

Sample: EZ4615-ICC4615

Account: LANGAN Langan Engineering & Environmental

Lab FileID: Z92862.D

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

46)	Dimethylnaph	0.721	0.712	0.689	0.651	0.652	0.630	0.666	0.590	0.664	6.51
47)	I Acenaphthene-d10	-----ISTD-----									
48)	Hexachlorocy	0.352	0.327	0.304	0.231	0.167	0.118		0.250		37.61
	----- Quadratic regression -----	Coefficient = 0.9994									
	Response Ratio =	$-0.05058 + 0.26660 * A + 0.01908 * A^2$									
49)	2,4,6-Trichl	0.377	0.354	0.357	0.343	0.324	0.306	0.325	0.283	0.334	9.11
50)	2,4,5-Trichl	0.403	0.386	0.395	0.365	0.348	0.365	0.357	0.320	0.367	7.36
51)	2-Fluorobiph	1.278	1.206	1.207	1.176	1.149	1.150	1.153	1.082	1.175	4.88
52)	2-Chloronaph	1.210	1.160	1.133	1.079	1.027	1.074	1.033	0.957	1.084	7.50
53)	Biphenyl	1.629	1.552	1.487	1.420	1.379	1.387	1.288	1.319	1.433	8.12
54)	2-Nitroanili	0.408	0.390	0.392	0.387	0.393	0.374	0.388	0.334	0.383	5.73
55)	Dimethylphth	1.265	1.242	1.257	1.241	1.245	1.290	1.235	1.207	1.248	1.92
56)	Acenaphthyle	1.871	1.790	1.789	1.726	1.703	1.739	1.751	1.609	1.747	4.35
57)	2,6-Dinitrot	0.281	0.277	0.282	0.278	0.267	0.262	0.238	0.255	0.267	5.79
58)	3-Nitroanili	0.300	0.341	0.353	0.319	0.319	0.334	0.293	0.311	0.321	6.30
59)	Acenaphthene	1.146	1.102	1.113	1.047	1.026	1.068	1.075	1.076	1.082	3.51
60)	2,4-Dinitrop	0.175	0.186	0.182	0.144	0.102	0.084		0.145		30.01
	----- Linear regression -----	Coefficient = 0.9958									
	Response Ratio =	$-0.03332 + 0.18699 * A$									
61)	4-Nitropheno	0.253	0.252	0.246	0.249	0.228	0.213	0.168	0.210	0.227	13.07
62)	Dibenzofuran	1.655	1.575	1.606	1.526	1.506	1.516	1.485	1.397	1.533	5.15
63)	2,4-Dinitrot	0.350	0.400	0.425	0.407	0.378	0.383	0.347	0.340	0.379	8.18
64)	2,3,4,6-Tetr	0.344	0.326	0.337	0.309	0.291	0.296	0.291	0.291	0.311	7.08
65)	Diethylphtha	1.259	1.428	1.422	1.389	1.353	1.407	1.368	1.201	1.353	6.03
66)	Fluorene	1.384	1.339	1.331	1.234	1.225	1.209	1.201	1.133	1.257	6.76
67)	4-Chlorophen	0.636	0.604	0.598	0.548	0.570	0.555	0.499	0.546	0.569	7.47
68)	4-Nitroanili	0.272	0.330	0.344	0.325	0.315	0.318	0.286	0.310	0.313	7.55
69)	I Phenanthrene-d10	-----ISTD-----									
70)	4,6-Dinitro-	0.142	0.149	0.148	0.122	0.102		0.132			15.13
71)	n-Nitrosodip	0.527	0.526	0.516	0.473	0.450	0.460	0.458	0.451	0.483	7.13
72)	1,2-Diphenyl	0.869	0.835	0.816	0.765	0.737	0.727	0.714	0.645	0.764	9.59
73)	2,4,6-Tribo	0.132	0.129	0.126	0.113	0.110	0.096	0.092	0.094	0.112	14.66
74)	4-Bromopheny	0.242	0.228	0.224	0.205	0.188	0.187	0.182	0.176	0.204	12.02
75)	Hexachlorobe	0.274	0.278	0.268	0.245	0.237	0.240	0.260	0.237	0.255	6.69
76)	Pentachlorop	0.170	0.169	0.159	0.133	0.114	0.101		0.141		20.94
	----- Quadratic regression -----	Coefficient = 0.9993									
	Response Ratio =	$-0.02223 + 0.15742 * A + 0.00362 * A^2$									
77)	Phenanthrene	1.187	1.178	1.150	1.062	1.008	1.024	1.044	1.092	1.093	6.43
78)	Anthracene	1.184	1.167	1.146	1.062	1.004	1.027	1.028	1.068	1.086	6.43
79)	Carbazole	1.042	1.097	1.079	1.008	0.951	0.933	0.970	1.045	1.015	5.93
80)	Di-n-butylph	1.494	1.494	1.446	1.364	1.238	1.224	1.211	1.216	1.336	9.59
81)	Fluoranthene	1.282	1.341	1.269	1.198	1.112	1.113	1.131	1.100	1.193	7.85
82)	Octadecane	0.563	0.495	0.486	0.470	0.439	0.430	0.420	0.412	0.464	10.81
83)	I Chrysene-d12	-----ISTD-----									
84)	Pyrene	1.108	1.093	1.153	1.148	1.116	1.118	1.135	1.168	1.130	2.26
85)	Butyl steara	0.457	0.407	0.422	0.440	0.436	0.438	0.441	0.358	0.425	7.27
86)	Terphenyl-d1	0.756	0.741	0.781	0.779	0.753	0.733	0.761	0.787	0.761	2.57
87)	Butylbenzylp	0.611	0.531	0.567	0.586	0.565	0.564	0.528	0.519	0.559	5.61
88)	Benzo[a]anth	1.171	0.990	1.054	1.056	1.055	1.061	1.102	1.188	1.085	6.09
89)	3,3'-Dichlor	0.434	0.425	0.436	0.425	0.408	0.410	0.406	0.404	0.419	3.12
90)	Chrysene	0.875	0.838	0.894	0.903	0.912	0.926	0.948	0.974	0.909	4.65
91)	bis(2-Ethylh	0.739	0.650	0.691	0.730	0.701	0.694	0.682	0.670	0.695	4.21
92)	I Perylene-d12	-----ISTD-----									

Initial Calibration Summary

Page 3 of 3

Job Number: JB70517

Sample: EZ4615-ICC4615

Account: LANGAN Langan Engineering & Environmental

Lab FileID: Z92862.D

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

93)	Di-n-octylph	2.219	1.874	1.778	1.575	1.455	1.420	1.353	1.251	1.616	19.92
94)	Benzo[b]fluo		1.597	1.505	1.274	1.214	1.161	1.161	1.097	1.287	14.78
95)	Benzo[k]fluo	1.388	1.303	1.232	1.147	1.067	1.095	1.077	0.978	1.161	11.76
96)	Benzo[a]pyre	1.299	1.199	1.149	1.067	1.014	0.979	0.991	0.936	1.079	11.62
97)	Indeno[1,2,3	1.379	1.299	1.184	1.172	1.081	1.040	1.014	0.920	1.136	13.43
98)	Dibenz(a,h)a	1.101	1.004	0.922	0.882	0.813	0.771	0.745	0.693	0.866	15.99
99)	Dibenz[a,h]a	1.102	1.061	0.936	0.947	0.858	0.839	0.716	0.736	0.899	15.52
100)	7,12-Dimethy	0.811	0.735	0.685	0.573	0.495	0.475			0.629	21.58

----- Linear regression ----- Coefficient = 0.9931

Response Ratio = -0.10434 + 0.81777 *A

101)	Benzo[g,h,i]	0.998	0.933	0.873	0.885	0.840	0.846	0.839	0.771	0.873	7.85
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(#) = Out of Range ### Number of calibration levels exceeded format ###

MZ4615.M

Wed Jun 25 15:22:35 2014

RTE

8.7.57

8

Initial Calibration Verification

Page 1 of 2

Job Number: JB70517

Sample: EZ4615-ICV4615

Account: LANGAN Langan Engineering & Environmental

Lab FileID: Z92870.D

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

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\ez4615\z92870.D

Vial: 12

Acq On : 24 Jun 2014 3:28 pm

Operator: ashleyv

Sample : icv4615-50

Inst : MSZ

Misc : op75490,ez4615

Multiplr: 1.00

MS Integration Params: RTEINT.P

Method : C:\msdchem\1\METHODS\MZ4615.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um

Last Update : Wed Jun 25 15:21:47 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	118	0.00	3.34
3 t	Pyridine	0.830	0.844	-1.7	129	0.01	1.57
4 t	N-Nitrosodimethylamine	0.479	0.518	-8.1	135	0.00	1.54
11 t	bis(2-Chloroethyl)ether	1.087	1.065	2.0	115	-0.01	3.09
14 t	1,3-Dichlorobenzene	1.540	1.462	5.1	107	0.00	3.29
15 t	1,4-Dichlorobenzene	1.600	1.501	6.2	107	0.00	3.36
16 t	Benzyl alcohol	0.899	0.838	6.8	102	0.00	3.49
17 t	1,2-Dichlorobenzene	1.511	1.434	5.1	109	0.00	3.50
20 t	2,2'-oxybis(1-Chloropropa	0.443	0.399	9.9	108	0.00	3.60
22 t	n-Nitroso-di-n-propylamin	1.018	0.905	11.1	102	-0.01	3.74
23 t	Hexachloroethane	0.573	0.542	5.4	111	0.00	3.83
24 I	Naphthalene-d8	1.000	1.000	0.0	110	0.00	4.66
26 t	Nitrobenzene	0.383	0.373	2.6	106	0.00	3.91
28 t	Isophorone	0.633	0.605	4.4	101	-0.01	4.16
32 t	bis(2-Chloroethoxy)methan	0.333	0.343	-3.0	109	0.00	4.41
36 t	1,2,4-Trichlorobenzene	0.332	0.333	-0.3	106	0.00	4.60
38 t	Naphthalene	1.031	1.017	1.4	105	0.00	4.68
42 t	Hexachlorobutadiene	0.212	0.205	3.3	104	0.00	4.83
44 t	2-Methylnaphthalene	0.620	0.581	6.3	100	0.00	5.47
47 I	Acenaphthene-d10	1.000	1.000	0.0	99	0.00	6.70
	----- True Calc.			% Drift	-----		
48 t	Hexachlorocyclopentadiene	100.000	93.884	6.2	74	0.00	5.67
	----- AvgRF CCRF			% Dev	-----		
52 t	2-Chloronaphthalene	1.084	1.080	0.4	94	0.00	6.04
54 t	2-Nitroaniline	0.383	0.373	2.6	94	0.00	6.19
55 t	Dimethylphthalate	1.248	1.252	-0.3	98	0.00	6.43
56 t	Acenaphthylene	1.747	1.495	14.4	82	0.00	6.53
57 t	2,6-Dinitrotoluene	0.267	0.256	4.1	89	0.00	6.49
58 t	3-Nitroaniline	0.321	0.292	9.0	81	0.00	6.69
59 t	Acenaphthene	1.082	1.108	-2.4	98	0.00	6.73
62 t	Dibenzofuran	1.533	1.510	1.5	93	0.00	6.95
63 t	2,4-Dinitrotoluene	0.379	0.341	10.0	79	0.00	6.97
65 t	Diethylphthalate	1.353	1.342	0.8	93	-0.01	7.27
66 t	Fluorene	1.257	1.263	-0.5	94	0.00	7.35
67 t	4-Chlorophenyl-phenylethe	0.569	0.574	-0.9	95	0.00	7.38
68 t	4-Nitroaniline	0.313	0.292	6.7	84	-0.02	7.43
69 I	Phenanthrene-d10	1.000	1.000	0.0	95	0.00	8.47
71 t	n-Nitrosodiphenylamine	0.483	0.483	0.0	89	0.00	7.53

Initial Calibration Verification

Page 2 of 2

Job Number: JB70517

Sample: EZ4615-ICV4615

Account: LANGAN Langan Engineering & Environmental

Lab FileID: Z92870.D

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

72 t	1,2-Diphenylhydrazine	0.764	0.762	0.3	89	0.00	7.56
74 t	4-Bromophenyl-phenylether	0.204	0.209	-2.5	89	0.00	7.96
75 t	Hexachlorobenzene	0.255	0.236	7.5	84	0.00	8.02
77 t	Phenanthrene	1.093	1.059	3.1	88	0.00	8.50
78 t	Anthracene	1.086	1.058	2.6	88	0.00	8.57
79 t	Carbazole	1.015	0.936	7.8	83	0.00	8.80
80 t	Di-n-butylphthalate	1.336	1.241	7.1	82	0.00	9.29
81 t	Fluoranthene	1.193	1.068	10.5	80	0.00	10.05
83 I	Chrysene-d12	1.000	1.000	0.0	85	0.00	12.13
84 t	Pyrene	1.130	1.026	9.2	76	0.00	10.36
87 t	Butylbenzylphthalate	0.559	0.507	9.3	76	0.00	11.39
88 t	Benzo[a]anthracene	1.085	0.947	12.7	76	0.00	12.12
89 t	3,3'-Dichlorobenzidine	0.419	0.598	-42.7#	116	0.00	12.14
90 t	Chrysene	0.909	0.822	9.6	78	-0.01	12.17
91 t	bis(2-Ethylhexyl)phthalat	0.695	0.610	12.2	75	0.00	12.30
92 I	Perylene-d12	1.000	1.000	0.0	75	0.00	14.17
93 t	Di-n-octylphthalate	1.616	1.514	6.3	64	0.00	13.25
94 t	Benzo[b]fluoranthene	1.287	1.181	8.2	59	-0.02	13.66
95 t	Benzo[k]fluoranthene	1.161	1.115	4.0	68	-0.02	13.70
96 t	Benzo[a]pyrene	1.079	1.116	-3.4	73	-0.01	14.09
97 t	Indeno[1,2,3-cd]pyrene	1.136	1.347	-18.6	86	-0.01	15.51
99 t	Dibenz[a,h]anthracene	0.899	1.072	-19.2	86	-0.02	15.54
101 t	Benzo[g,h,i]perylene	0.873	1.031	-18.1	89	-0.02	15.86

(#) = Out of Range

z92845.D MZ4615.M

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

Wed Jun 25 15:28:24 2014 RTE

8.7.58

8

Initial Calibration Verification

Page 1 of 1

Job Number: JB70517

Sample: EZ4615-ICV4615

Account: LANGAN Langan Engineering & Environmental

Lab FileID: Z92871A.D

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

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\ez4615\z92871a.D

Vial: 13

Acq On : 24 Jun 2014 3:56 pm

Operator: ashleyv

Sample : icv4615-50

Inst : MSZ

Misc : op75490,ez4615

Multiplr: 1.00

MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\MZ4615.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um

Last Update : Wed Jun 25 09:02:03 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	77	0.00	3.34
9 t	Phenol	1.670	1.505	9.9	65	0.00	3.04
12 t	2-Chlorophenol	1.349	1.383	-2.5	76	0.00	3.16
19 t	2-Methylphenol	1.188	1.173	1.3	72	0.00	3.60
21 t	3&4-Methylphenol	1.264	1.227	2.9	70	0.00	3.76
24 I	Naphthalene-d8	1.000	1.000	0.0	70	0.00	4.66
29 t	2-Nitrophenol	0.190	0.204	-7.4	69	0.00	4.25
30 t	2,4-Dimethylphenol	0.334	0.402	-20.4	80	0.00	4.33
31	Benzoic Acid	0.267	0.247	7.5	57	0.04	4.49
33 t	2,4-Dichlorophenol	0.286	0.312	-9.1	73	0.00	4.52
34	2,6-Dichlorophenol	0.289	0.308	-6.6	71	0.00	4.77
43 t	4-Chloro-3-methylphenol	0.325	0.342	-5.2	70	0.00	5.37
47 I	Acenaphthene-d10	1.000	1.000	0.0	66	0.00	6.70
49 t	2,4,6-Trichlorophenol	0.334	0.376	-12.6	69	0.00	5.83
50 t	2,4,5-Trichlorophenol	0.367	0.404	-10.1	67	0.00	5.88
61 t	4-Nitrophenol	0.228	0.233	-2.2	62	-0.01	6.97
64	2,3,4,6-Tetrachlorophenol	0.311	0.328	-5.5	64	0.00	7.12
69 I	Phenanthrene-d10	1.000	1.000	0.0	67	0.00	8.47
70 t	4,6-Dinitro-2-methylpheno	0.132	0.119	9.8	54	0.00	7.46
----- True Calc. % Drift -----							
76 t	Pentachlorophenol	100.000	96.060	3.9	60	0.00	8.28

(#) = Out of Range
 Z92845.D MZ4615.M

SPCC's out = 0 CCC's out = 0
 Wed Jun 25 10:54:08 2014 RTE

8.7.59

8

Initial Calibration Verification

Page 1 of 1

Job Number: JB70517

Sample: EZ4615-ICV4615

Account: LANGAN Langan Engineering & Environmental

Lab FileID: Z92872.D

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

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\ez4615\z92872.D

Vial: 14

Acq On : 24 Jun 2014 4:23 pm

Operator: ashleyv

Sample : icv4615-50

Inst : MSZ

Misc : op75490,ez4615

Multiplr: 1.00

MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\MZ4615.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um

Last Update : Wed Jun 25 15:21:47 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	100	0.00	3.34
2	1,4-Dioxane	0.252	0.309	-22.6	121	0.01	1.42
6 t	Indene	2.288	2.331	-1.9	99	0.00	3.59
7 t	Cumene	3.141	3.176	-1.1	99	0.00	2.65
13 t	Decane	1.507	1.439	4.5	99	0.00	3.19
18 t	Acetophenone	2.015	1.913	5.1	90	0.00	3.74
24 I	Naphthalene-d8	1.000	1.000	0.0	94	0.00	4.66
27 t	Quinoline	0.705	0.686	2.7	88	-0.02	5.06
40 t	2,3-Dichloroaniline	0.382	0.334	12.6	80	0.00	5.82
41 t	Caprolactam	0.177	0.151	14.7	83	-0.06	5.14
45 t	1-Methylnaphthalene	0.626	0.595	5.0	88	0.00	5.59
46 t	Dimethylnaphthalene	0.664	0.643	3.2	88	0.00	6.21
47 I	Acenaphthene-d10	1.000	1.000	0.0	83	0.00	6.70
48 t	Hexachlorocyclopentadiene	True 100.000	Calc. 108.082	% Drift -8.1	56	0.00	5.67
		AvgRF	CCRF	% Dev			
53 t	Biphenyl	1.433	1.522	-6.2	85	0.00	6.03
69 I	Phenanthrene-d10	1.000	1.000	0.0	82	0.00	8.47
83 I	Chrysene-d12	1.000	1.000	0.0	67	-0.01	12.13
92 I	Perylene-d12	1.000	1.000	0.0	70	-0.01	14.16

(#) = Out of Range
Z92845.D MZ4615.M

SPCC's out = 0 CCC's out = 0
Fri Jun 27 13:10:40 2014 RTE

8.7.60

8

Initial Calibration Verification

Page 1 of 1

Job Number: JB70517

Sample: EZ4615-ICV4615

Account: LANGAN Langan Engineering & Environmental

Lab FileID: Z92873.D

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

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\ez4615\z92873.D

Vial: 15

Acq On : 24 Jun 2014 4:49 pm

Operator: ashleyv

Sample : icv4615-50

Inst : MSZ

Misc : op75490,ez4615

Multiplr: 1.00

MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\MZ4615.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um

Last Update : Wed Jun 25 09:02:03 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	117	0.00	3.34
10 t	Aniline	1.769	1.945	-9.9	128	0.00	3.05
24 I	Naphthalene-d8	1.000	1.000	0.0	122	0.00	4.66
39 t	4-Chloroaniline	0.436	0.450	-3.2	120	0.00	4.77

(#) = Out of Range

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

z92845.D MZ4615.M

Wed Jun 25 10:54:12 2014 RTE

8.7.61

8

Initial Calibration Verification

Page 1 of 1

Job Number: JB70517

Sample: EZ4615-ICV4615

Account: LANGAN Langan Engineering & Environmental

Lab FileID: Z92874.D

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

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\ez4615\z92874.D

Vial: 16

Acq On : 24 Jun 2014 5:16 pm

Operator: ashleyv

Sample : icv4615-50

Inst : MSZ

Misc : op75490,ez4615

Multiplr: 1.00

MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\MZ4615.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um

Last Update : Wed Jun 25 09:02:03 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	121	0.00	3.34
5 S	2-Fluorophenol	1.018	0.970	4.7	108	0.00	2.30
8 S	Phenol-d5	1.440	1.245	13.5	98	0.00	3.03
24 I	Naphthalene-d8	1.000	1.000	0.0	114	0.00	4.66
25 S	Nitrobenzene-d5	0.365	0.357	2.2	109	0.00	3.89
47 I	Acenaphthene-d10	1.000	1.000	0.0	102	0.00	6.70
51 S	2-Fluorobiphenyl	1.175	1.189	-1.2	101	0.00	5.92
69 I	Phenanthrene-d10	1.000	1.000	0.0	103	0.00	8.47
73 S	2,4,6-Tribromophenol	0.112	0.103	8.0	84	0.00	7.65
83 I	Chrysene-d12	1.000	1.000	0.0	79	0.00	12.13
86 S	Terphenyl-d14	0.761	0.850	-11.7	86	0.00	10.63
92 I	Perylene-d12	1.000	1.000	0.0	93	0.00	14.16

(#) = Out of Range
 z92845.D MZ4615.M

SPCC's out = 0 CCC's out = 0
 Wed Jun 25 10:54:14 2014 RTE

8.7.62

8

Initial Calibration Verification

Page 1 of 1

Job Number: JB70517

Sample: EZ4615-ICV4615

Account: LANGAN Langan Engineering & Environmental

Lab FileID: Z92878.D

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

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\ez4615\z92878.D Vial: 20
Acq On : 24 Jun 2014 5:43 pm Operator: ashleyv
Sample : icv4615-100 Inst : MSZ
Misc : op75490,ez4615 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\MZ4615.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
Last Update : Wed Jun 25 09:02:03 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.
47 I	Acenaphthene-d10	1.000	1.000	0.0	77	0.00	6.70
	----- True		Calc.	% Drift		-----	
60 t	2,4-Dinitrophenol	200.000	190.794	4.6	72	0.00	6.83

(#) = Out of Range
z92843a.D MZ4615.M

SPCC's out = 0 CCC's out = 0
Wed Jun 25 10:54:38 2014 RTE

8.7.63

8

Continuing Calibration Summary

Page 1 of 3

Job Number: JB70517

Sample: EZ4640-CC4615

Account: LANGAN Langan Engineering & Environmental

Lab FileID: Z93535.D

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

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\ez4640\z93535.D

Vial: 2

Acq On : 11 Jul 2014 10:37 pm

Operator: andrews1

Sample : cc4615-25

Inst : MSZ

Misc : op76211,ez4640

Multiplr: 1.00

MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\MZ4615.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um

Last Update : Sat Jul 12 14:58:30 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	84	0.00	3.10
2	1,4-Dioxane	0.252	0.282	-11.9	76	-0.01	1.25
3 t	Pyridine	0.830	0.760	8.4	76	-0.01	1.39
4 t	N-Nitrosodimethylamine	0.479	0.445	7.1	76	0.00	1.38
5 S	2-Fluorophenol	1.018	0.930	8.6	77	0.00	2.09
6 t	Indene	2.288	2.151	6.0	81	0.00	3.35
7 t	Cumene	3.141	3.046	3.0	82	0.00	2.43
8 S	Phenol-d5	1.440	1.357	5.8	79	0.00	2.81
9 t	Phenol	1.670	1.475	11.7	76	0.00	2.82
10 t	Aniline	1.769	1.504	15.0	74	0.00	2.82
11 t	bis(2-Chloroethyl)ether	1.087	0.928	14.6	73	0.00	2.87
12 t	2-Chlorophenol	1.349	1.266	6.2	80	0.00	2.92
13 t	Decane	1.507	1.596	-5.9	85	0.00	2.96
14 t	1,3-Dichlorobenzene	1.540	1.497	2.8	82	0.00	3.05
15 t	1,4-Dichlorobenzene	1.600	1.554	2.9	84	0.00	3.12
16 t	Benzyl alcohol	0.899	0.825	8.2	80	0.00	3.25
17 t	1,2-Dichlorobenzene	1.511	1.460	3.4	84	0.00	3.26
18 t	Acetophenone	2.015	1.930	4.2	80	0.00	3.50
19 t	2-Methylphenol	1.188	1.122	5.6	81	0.00	3.38
20 t	2,2'-oxybis(1-Chloropropa	0.443	0.384	13.3	73	0.00	3.37
21 t	3&4-Methylphenol	1.264	1.170	7.4	78	0.00	3.54
22 t	n-Nitroso-di-n-propylamin	1.018	0.933	8.3	79	0.00	3.50
23 t	Hexachloroethane	0.573	0.578	-0.9	86	0.00	3.59
24 I	Naphthalene-d8	1.000	1.000	0.0	83	0.00	4.40
25 S	Nitrobenzene-d5	0.365	0.383	-4.9	86	0.00	3.65
26 t	Nitrobenzene	0.383	0.388	-1.3	83	0.00	3.67
27 t	Quinoline	0.705	0.673	4.5	79	0.00	4.81
28 t	Isophorone	0.633	0.620	2.1	81	0.00	3.92
29 t	2-Nitrophenol	0.190	0.193	-1.6	82	0.00	4.00
30 t	2,4-Dimethylphenol	0.334	0.328	1.8	82	0.00	4.09
31	Benzoic Acid	0.269	0.269	0.0	80	-0.03	4.25
32 t	bis(2-Chloroethoxy)methan	0.333	0.310	6.9	76	0.00	4.17
33 t	2,4-Dichlorophenol	0.286	0.278	2.8	81	0.00	4.28
34	2,6-Dichlorophenol	0.289	0.284	1.7	81	0.00	4.52
35 t	1,3,5-Trichlorobenzene	0.352	0.365	-3.7	86	-0.02	4.01
36 t	1,2,4-Trichlorobenzene	0.332	0.330	0.6	84	0.00	4.35
37 t	1,2,3-Trichlorobenzene	0.333	0.346	-3.9	86	-0.03	4.59
38 t	Naphthalene	1.031	1.001	2.9	82	0.00	4.42
39 t	4-Chloroaniline	0.436	0.423	3.0	82	0.00	4.52
40 t	2,3-Dichloroaniline	0.382	0.373	2.4	82	0.00	5.56
41 t	Caprolactam	0.177	0.161	9.0	74	-0.03	4.91

8.7.64

8

Continuing Calibration Summary

Page 2 of 3

Job Number: JB70517

Account: LANGAN Langan Engineering & Environmental

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

Sample:

EZ4640-CC4615

Lab FileID:

Z93535.D

42 t	Hexachlorobutadiene	0.212	0.227	-7.1	89	0.00	4.58
43 t	4-Chloro-3-methylphenol	0.325	0.322	0.9	82	-0.01	5.13
44 t	2-Methylnaphthalene	0.620	0.599	3.4	81	0.00	5.21
45 t	1-Methylnaphthalene	0.626	0.603	3.7	81	0.00	5.32
46 t	Dimethylnaphthalene	0.664	0.642	3.3	82	0.00	5.95
47 I	Acenaphthene-d10	1.000	1.000	0.0	83	0.00	6.42
		----- True	Calc.	% Drift	-----		
48 t	Hexachlorocyclopentadiene	50.000	47.172	5.7	84	0.00	5.41
		----- AvgRF	CCRF	% Dev	-----		
49 t	2,4,6-Trichlorophenol	0.334	0.351	-5.1	85	0.00	5.57
50 t	2,4,5-Trichlorophenol	0.367	0.367	0.0	84	0.00	5.63
51 S	2-Fluorobiphenyl	1.175	1.161	1.2	82	0.00	5.66
52 t	2-Chloronaphthalene	1.084	1.053	2.9	81	0.00	5.77
53 t	Biphenyl	1.433	1.428	0.3	84	0.00	5.77
54 t	2-Nitroaniline	0.383	0.431	-12.5	92	0.00	5.93
55 t	Dimethylphthalate	1.248	1.206	3.4	81	0.00	6.17
56 t	Acenaphthylene	1.747	1.692	3.1	81	0.00	6.25
57 t	2,6-Dinitrotoluene	0.267	0.267	0.0	80	0.00	6.23
58 t	3-Nitroaniline	0.321	0.325	-1.2	85	0.00	6.43
59 t	Acenaphthene	1.082	1.042	3.7	83	0.00	6.46
		----- True	Calc.	% Drift	-----		
60 t	2,4-Dinitrophenol	50.000	40.618	18.8	73	0.00	6.57
		----- AvgRF	CCRF	% Dev	-----		
61 t	4-Nitrophenol	0.227	0.276	-21.6#	92	0.00	6.73
62 t	Dibenzofuran	1.533	1.447	5.6	79	0.00	6.68
63 t	2,4-Dinitrotoluene	0.379	0.377	0.5	77	0.00	6.72
64	2,3,4,6-Tetrachlorophenol	0.311	0.302	2.9	81	0.00	6.86
65 t	Diethylphthalate	1.353	1.393	-3.0	83	0.00	7.02
66 t	Fluorene	1.257	1.202	4.4	81	0.00	7.08
67 t	4-Chlorophenyl-phenylethe	0.569	0.537	5.6	81	0.00	7.10
68 t	4-Nitroaniline	0.313	0.289	7.7	74	-0.01	7.16
69 I	Phenanthrene-d10	1.000	1.000	0.0	79	0.00	8.19
70 t	4,6-Dinitro-2-methylpheno	0.132	0.119	9.8	77	0.00	7.21
71 t	n-Nitrosodiphenylamine	0.483	0.475	1.7	79	0.00	7.26
72 t	1,2-Diphenylhydrazine	0.764	0.863	-13.0	89	0.00	7.29
73 S	2,4,6-Tribromophenol	0.112	0.116	-3.6	81	0.00	7.37
74 t	4-Bromophenyl-phenylether	0.204	0.204	0.0	79	0.00	7.68
75 t	Hexachlorobenzene	0.255	0.247	3.1	79	0.00	7.74
		----- True	Calc.	% Drift	-----		
76 t	Pentachlorophenol	50.000	47.250	5.5	80	0.00	8.01
		----- AvgRF	CCRF	% Dev	-----		
77 t	Phenanthrene	1.093	1.054	3.6	78	0.00	8.22
78 t	Anthracene	1.086	1.056	2.8	79	0.00	8.28
79 t	Carbazole	1.015	0.976	3.8	76	0.00	8.51
80 t	Di-n-butylphthalate	1.336	1.373	-2.8	79	0.00	9.00
81 t	Fluoranthene	1.193	1.091	8.5	72	0.00	9.73
82 t	Octadecane	0.464	0.477	-2.8	80	0.00	8.17
83 I	Chrysene-d12	1.000	1.000	0.0	75	0.00	11.78
84 t	Pyrene	1.130	1.125	0.4	73	0.00	10.02
85	Butyl stearate	0.425	0.457	-7.5	77	-0.03	11.23
86 S	Terphenyl-d14	0.761	0.758	0.4	73	0.00	10.30

8.7.64

8

Continuing Calibration Summary

Page 3 of 3

Job Number: JB70517

Sample: EZ4640-CC4615

Account: LANGAN Langan Engineering & Environmental

Lab FileID: Z93535.D

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

87 t	Butylbenzylphthalate	0.559	0.595	-6.4	76	0.00	11.07
88 t	Benzo[a]anthracene	1.085	1.020	6.0	72	0.00	11.77
89 t	3,3'-Dichlorobenzidine	0.419	0.386	7.9	68	0.00	11.79
90 t	Chrysene	0.909	0.877	3.5	72	0.00	11.82
91 t	bis(2-Ethylhexyl)phthalat	0.695	0.745	-7.2	76	0.00	11.97
92 I	Perylene-d12	1.000	1.000	0.0	69	0.00	13.81
93 t	Di-n-octylphthalate	1.616	1.731	-7.1	76	0.00	12.92
94 t	Benzo[b]fluoranthene	1.287	1.266	1.6	69	-0.01	13.30
95 t	Benzo[k]fluoranthene	1.161	1.101	5.2	66	0.00	13.34
96 t	Benzo[a]pyrene	1.079	1.037	3.9	67	0.00	13.73
97 t	Indeno[1,2,3-cd]pyrene	1.136	1.068	6.0	63	0.00	15.11
98 t	Dibenz(a,h)acridine	0.866	0.813	6.1	64	-0.03	14.85
99 t	Dibenz[a,h]anthracene	0.899	0.854	5.0	62	0.00	15.13
----- True Calc. % Drift -----							
100 t	7,12-Dimethylbenz(a)anthr	25.000	21.791	12.8	66	0.00	13.30
----- AvgRF CCRF % Dev -----							
101 t	Benzo[g,h,i]perylene	0.873	0.819	6.2	64	-0.01	15.42

(#) = Out of Range
z92846.D MZ4615.M

SPCC's out = 0 CCC's out = 0
Sat Jul 12 15:09:34 2014 RTE

8.7.64

8

Continuing Calibration Summary

Page 1 of 1

Job Number: JB70517**Sample:** EZ4640-CC4614**Account:** LANGAN Langan Engineering & Environmental**Lab FileID:** Z93536.D**Project:** Carroll Gardens, 363-365 Bond Street, Brooklyn, NY**Evaluate Continuing Calibration Report**

Data File : C:\msdchem\1\DATA\ez4640\z93536.D

Vial: 3

Acq On : 11 Jul 2014 11:02 pm

Operator: andrews1

Sample : cc4614-25

Inst : MSZ

Misc : op76211,ez4640

Multiplr: 1.00

MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\MZ4615.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um

Last Update : Sat Jul 12 14:58:30 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	65	0.00	3.10
103	Benzaldehyde	1.112	0.916	17.6	62	0.00	2.72
104	Phenanthrene-d10a	1.000	1.000	0.0	67	0.00	8.19
105	Atrazine	0.108	0.104	3.7	67	0.00	7.94
106	Chrysene-d12a	1.000	1.000	0.0	70	0.00	11.78
107	Benzidine	0.650	0.348	46.5#	36#	0.00	9.97
108	Acenaphthene-d10a	1.000	1.000	0.0	71	0.00	6.42
109	1,2,4,5-Tetrachlorobenzen	0.591	0.496	16.1	65	0.00	5.41
110 I	Naphthalene-d8a	1.000	1.000	0.0	64	0.00	4.40
111	Hydroquinone	0.300	0.302	-0.7	66	0.00	4.98

(#) = Out of Range
 z92846.D MZ4615.M

SPCC's out = 0 CCC's out = 0
 Sat Jul 12 15:09:36 2014 RTE

8.7.65

8

GC/MS Semi-volatiles

Raw Data

6

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1594\
Data File : 2p38174.D
Acq On : 5 Jul 2014 6:14 pm
Operator : andrews1
Sample : jb70517-1
Misc : op76077,e2p1594,31.2
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 10 16:04:08 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 02 14:21:35 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.239	152	1570490	40.00	ppb	-0.03
24) Naphthalene-d8	5.298	136	5683959	40.00	ppb	-0.02
47) Acenaphthene-d10	6.732	164	2846263	40.00	ppb	-0.02
69) Phenanthrene-d10	7.973	188	4541383	40.00	ppb	-0.02
83) Chrysene-d12	11.112	240	3571444	40.00	ppb	-0.01
92) Perylene-d12	13.107	264	3105974	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	4.239	152	1570490	40.00	ppb	-0.03
104) Acenaphthene-d10a	6.732	164	2846263	40.00	ppb	-0.02
107) Chrysene-d12a	11.112	240	3571444	40.00	ppb	0.00
109) Naphthalene-d8a	5.298	136	5683959	40.00	ppb	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	3.191	112	1885138	40.37	ppb	0.03
Spiked Amount 50.000	Range 11	- 58	Recovery	=	80.74%#	
8) Phenol-d5	4.063	99	2368404	44.87	ppb	0.04
Spiked Amount 50.000	Range 10	- 59	Recovery	=	89.74%#	
25) Nitrobenzene-d5	4.726	82	2059367	44.02	ppb	-0.02
Spiked Amount 50.000	Range 19	- 61	Recovery	=	88.04%#	
51) 2-Fluorobiphenyl	6.186	172	4265485	49.35	ppb	-0.03
Spiked Amount 50.000	Range 21	- 58	Recovery	=	98.70%#	
73) 2,4,6-Tribromophenol	7.395	330	676510	52.54	ppb	-0.02
Spiked Amount 50.000	Range 12	- 68	Recovery	=	105.08%#	
85) Terphenyl-d14	9.706	244	3395650	47.50	ppb	-0.03
Spiked Amount 50.000	Range 16	- 65	Recovery	=	95.00%#	

Target Compounds Qvalue

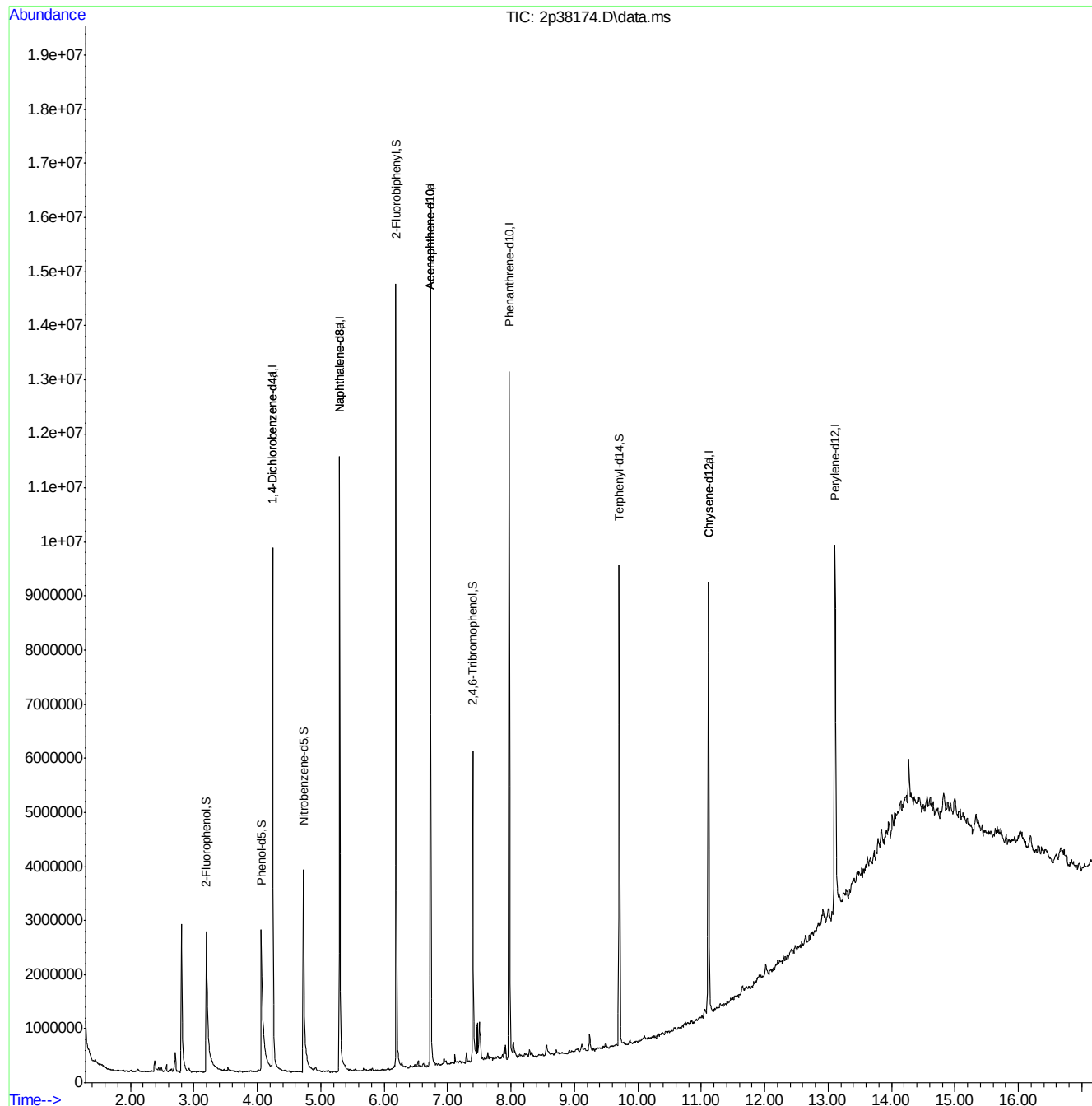
(#) = qualifier out of range (m) = manual integration (+) = signals summed

9.1.1
9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1594\
Data File : 2p38174.D
Acq On : 5 Jul 2014 6:14 pm
Operator : andrews1
Sample : jb70517-1
Misc : op76077,e2p1594,31.2
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 10 16:04:08 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 02 14:21:35 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1594\
Data File : 2p38175.D
Acq On : 5 Jul 2014 6:36 pm
Operator : andrews1
Sample : jb70517-2
Misc : op76077,e2p1594,30.8
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jul 10 16:05:10 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 02 14:21:35 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.239	152	1576094	40.00	ppb	-0.03
24) Naphthalene-d8	5.293	136	5509402	40.00	ppb	-0.03
47) Acenaphthene-d10	6.732	164	2879768	40.00	ppb	-0.02
69) Phenanthrene-d10	7.973	188	4582315	40.00	ppb	-0.02
83) Chrysene-d12	11.112	240	3813641	40.00	ppb	-0.01
92) Perylene-d12	13.107	264	3096392	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	4.239	152	1576094	40.00	ppb	-0.03
104) Acenaphthene-d10a	6.732	164	2880340	40.00	ppb	-0.02
107) Chrysene-d12a	11.112	240	3813641	40.00	ppb	0.00
109) Naphthalene-d8a	5.293	136	5509402	40.00	ppb	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	3.191	112	2069179	44.16	ppb	0.03
Spiked Amount 50.000	Range 11	- 58	Recovery	=	88.32%#	
8) Phenol-d5	4.057	99	2494428	47.09	ppb	0.03
Spiked Amount 50.000	Range 10	- 59	Recovery	=	94.18%#	
25) Nitrobenzene-d5	4.721	82	2177756	48.03	ppb	-0.02
Spiked Amount 50.000	Range 19	- 61	Recovery	=	96.06%#	
51) 2-Fluorobiphenyl	6.186	172	4414715	50.48	ppb	-0.03
Spiked Amount 50.000	Range 21	- 58	Recovery	=	100.96%#	
73) 2,4,6-Tribromophenol	7.395	330	730940	56.26	ppb	-0.02
Spiked Amount 50.000	Range 12	- 68	Recovery	=	112.52%#	
85) Terphenyl-d14	9.706	244	4290180	56.20	ppb	-0.03
Spiked Amount 50.000	Range 16	- 65	Recovery	=	112.40%#	
Target Compounds						
84) Pyrene	9.497	202	52211	0.45	ppb	Qvalue 95

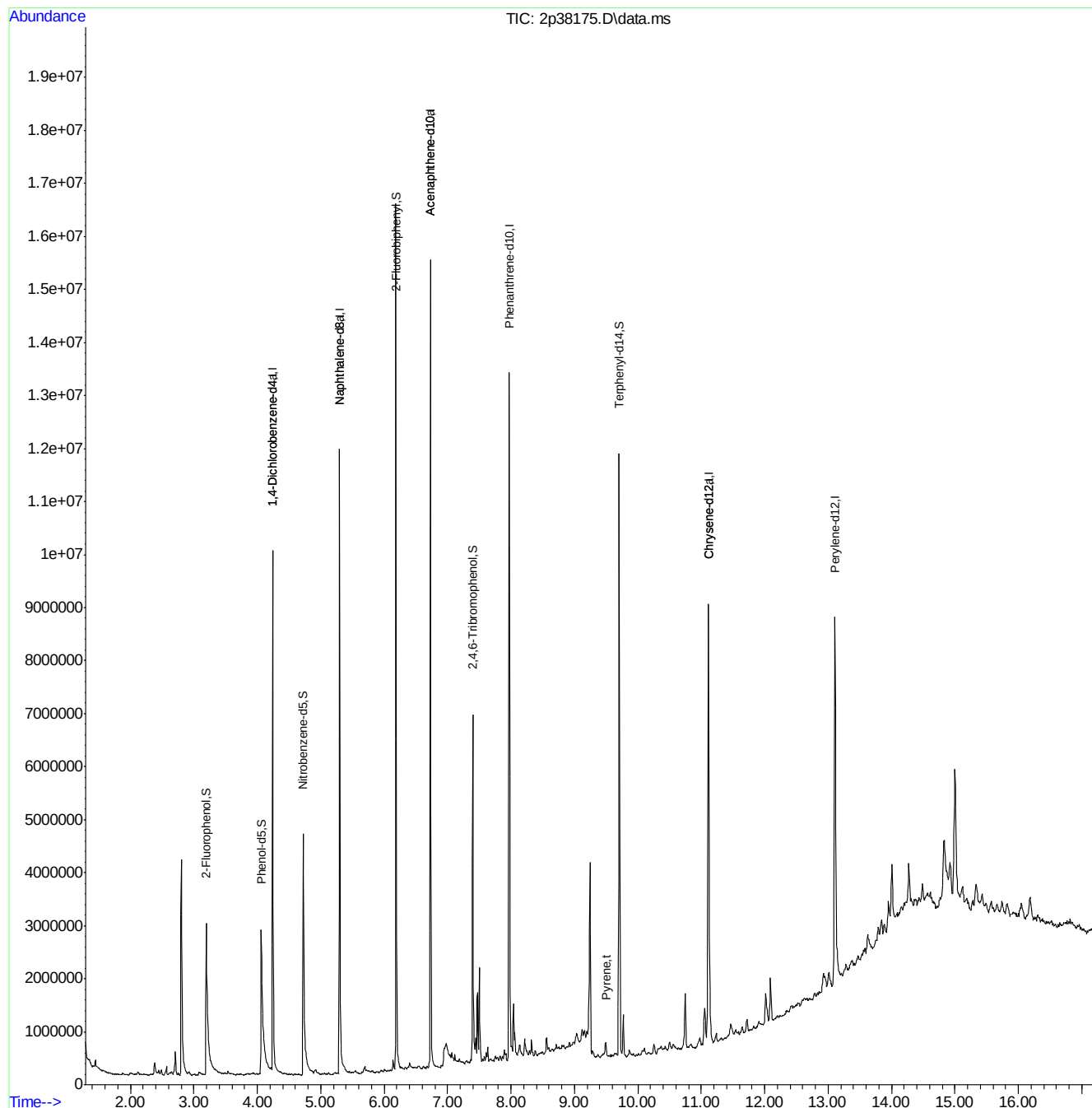
(#) = qualifier out of range (m) = manual integration (+) = signals summed

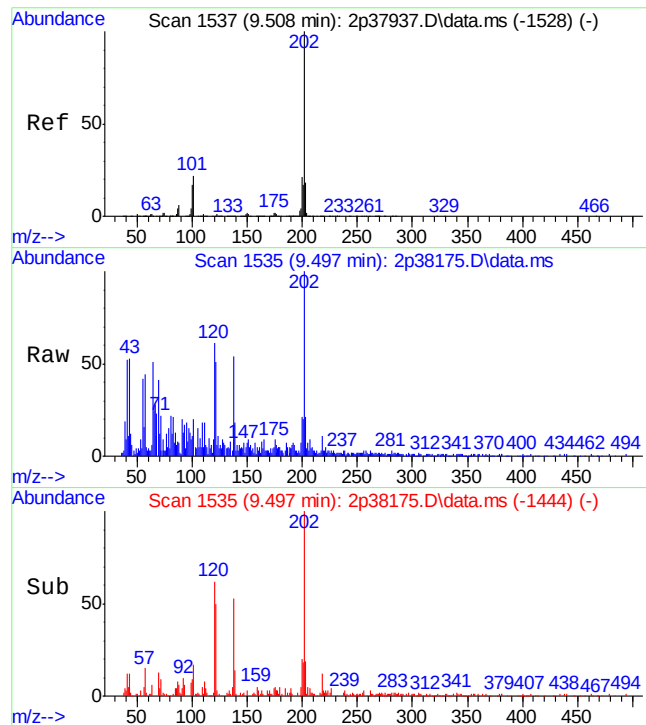
9.1.2
9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1594\
Data File : 2p38175.D
Acq On : 5 Jul 2014 6:36 pm
Operator : andrews1
Sample : jb70517-2
Misc : op76077,e2p1594,30.8
ALS Vial : 17 Sample Multiplier: 1

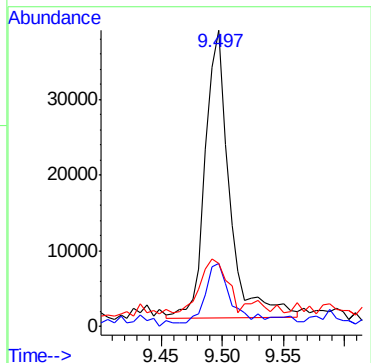
Quant Time: Jul 10 16:05:10 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 02 14:21:35 2014
Response via : Initial Calibration





#84
Pyrene
Concen: 0.45 ppb
RT: 9.497 min Scan# 1535
Delta R.T. -0.011 min
Lab File: 2p38175.D
Acq: 5 Jul 2014 6:36 pm

Tgt Ion:	202	Resp:	52211
Ion Ratio	Lower	Upper	
202	100		
200	20.5	0.0	50.7
203	14.1	0.0	48.5



9.1.2
9

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5726\F36797.D Vial: 14
Acq On : 6 Jul 2014 7:54 pm Operator: ashleyd
Sample : jb70517-3 Inst : MSF
Misc : op76142,ef5726,900 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 06 20:16:32 2014 Quant Results File: MF5692.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sat Jul 05 11:45:00 2014
Response via : Initial Calibration
DataAcq Meth : MF5692

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.66	152	170035	40.00	ppb	0.00
24) Naphthalene-d8	5.59	136	629805	40.00	ppb	0.00
47) Acenaphthene-d10	6.99	164	366947	40.00	ppb	0.00
69) Phenanthrene-d10	8.85	188	592538	40.00	ppb	-0.01
83) Chrysene-d12	14.09	240	580027	40.00	ppb	-0.01
92) Perylene-d12	17.14	264	506674	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4b	4.66	152	170035	40.00	ppb	0.00
104) Naphthalene-d8b	5.59	136	629805	40.00	ppb	0.00
106) Acenaphthene-d10b	6.99	164	366947	40.00	ppb	0.00
108) Phenanthrene-d10b	8.85	188	592538	40.00	ppb	-0.01
110) Chrysene-d12b	14.09	240	580027	40.00	ppb	-0.01

System Monitoring Compounds						
5) 2-Fluorophenol	3.71	112	130052	21.20	ppb	0.00
Spiked Amount 50.000			Recovery	=	42.40%	
8) Phenol-d5	4.43	99	109627	14.27	ppb	0.00
Spiked Amount 50.000			Recovery	=	28.54%	
25) Nitrobenzene-d5	5.07	82	246058	37.03	ppb	0.00
Spiked Amount 50.000			Recovery	=	74.06%	
51) 2-Fluorobiphenyl	6.38	172	456867	35.74	ppb	0.00
Spiked Amount 50.000			Recovery	=	71.48%	
73) 2,4,6-Tribromophenol	7.88	330	64377	48.38	ppb	0.00
Spiked Amount 50.000			Recovery	=	96.76%	
85) Terphenyl-d14	11.88	244	595924	45.19	ppb	0.00
Spiked Amount 50.000			Recovery	=	90.38%	

Target Compounds Qvalue

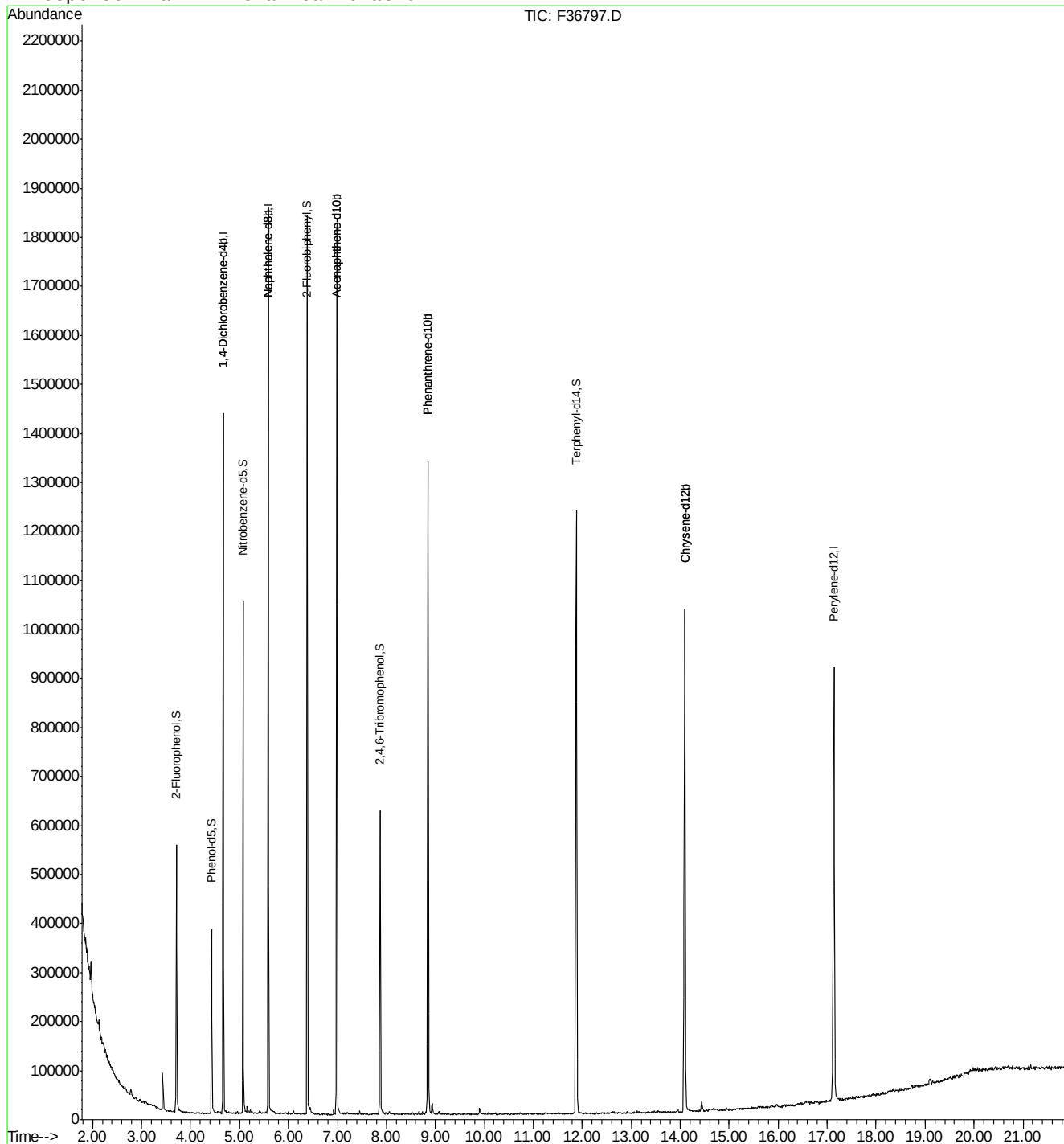
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5726\F36797.D
Acq On : 6 Jul 2014 7:54 pm
Sample : jb70517-3
Misc : op76142,ef5726,900
MS Integration Params: LSCINT.P
Quant Time: Jul 7 17:57 2014

Vial: 14
Operator: ashleyd
Inst : MSF
Multiplr: 1.00

Quant Results File: MF5692.RES

Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sat Jul 05 11:45:00 2014
Response via : Initial Calibration



F36797.D MF5692.M

Mon Jul 07 17:57:28 2014

RT1

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Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5726\F36798.D Vial: 15
Acq On : 6 Jul 2014 8:23 pm Operator: ashleyd
Sample : jb70517-4 Inst : MSF
Misc : op76142,ef5726,870 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 06 20:45:40 2014 Quant Results File: MF5692.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sat Jul 05 11:45:00 2014
Response via : Initial Calibration
DataAcq Meth : MF5692

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.66	152	146873	40.00	ppb	0.00
24) Naphthalene-d8	5.59	136	534718	40.00	ppb	0.00
47) Acenaphthene-d10	6.99	164	306728	40.00	ppb	0.00
69) Phenanthrene-d10	8.85	188	488845	40.00	ppb	-0.01
83) Chrysene-d12	14.09	240	482149	40.00	ppb	-0.01
92) Perylene-d12	17.14	264	432164	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4b	4.66	152	146873	40.00	ppb	0.00
104) Naphthalene-d8b	5.59	136	534718	40.00	ppb	0.00
106) Acenaphthene-d10b	6.99	164	306728	40.00	ppb	0.00
108) Phenanthrene-d10b	8.85	188	488845	40.00	ppb	-0.01
110) Chrysene-d12b	14.09	240	482149	40.00	ppb	-0.01

System Monitoring Compounds						
5) 2-Fluorophenol	3.71	112	123339	23.27	ppb	0.00
Spiked Amount 50.000			Recovery	=	46.54%	
8) Phenol-d5	4.43	99	108717	16.38	ppb	0.00
Spiked Amount 50.000			Recovery	=	32.76%	
25) Nitrobenzene-d5	5.07	82	222440	39.43	ppb	0.00
Spiked Amount 50.000			Recovery	=	78.86%	
51) 2-Fluorobiphenyl	6.38	172	401349	37.56	ppb	0.00
Spiked Amount 50.000			Recovery	=	75.12%	
73) 2,4,6-Tribromophenol	7.87	330	57597	52.46	ppb	0.00
Spiked Amount 50.000			Recovery	=	104.92%	
85) Terphenyl-d14	11.88	244	503568	45.94	ppb	0.00
Spiked Amount 50.000			Recovery	=	91.88%	

Target Compounds Qvalue

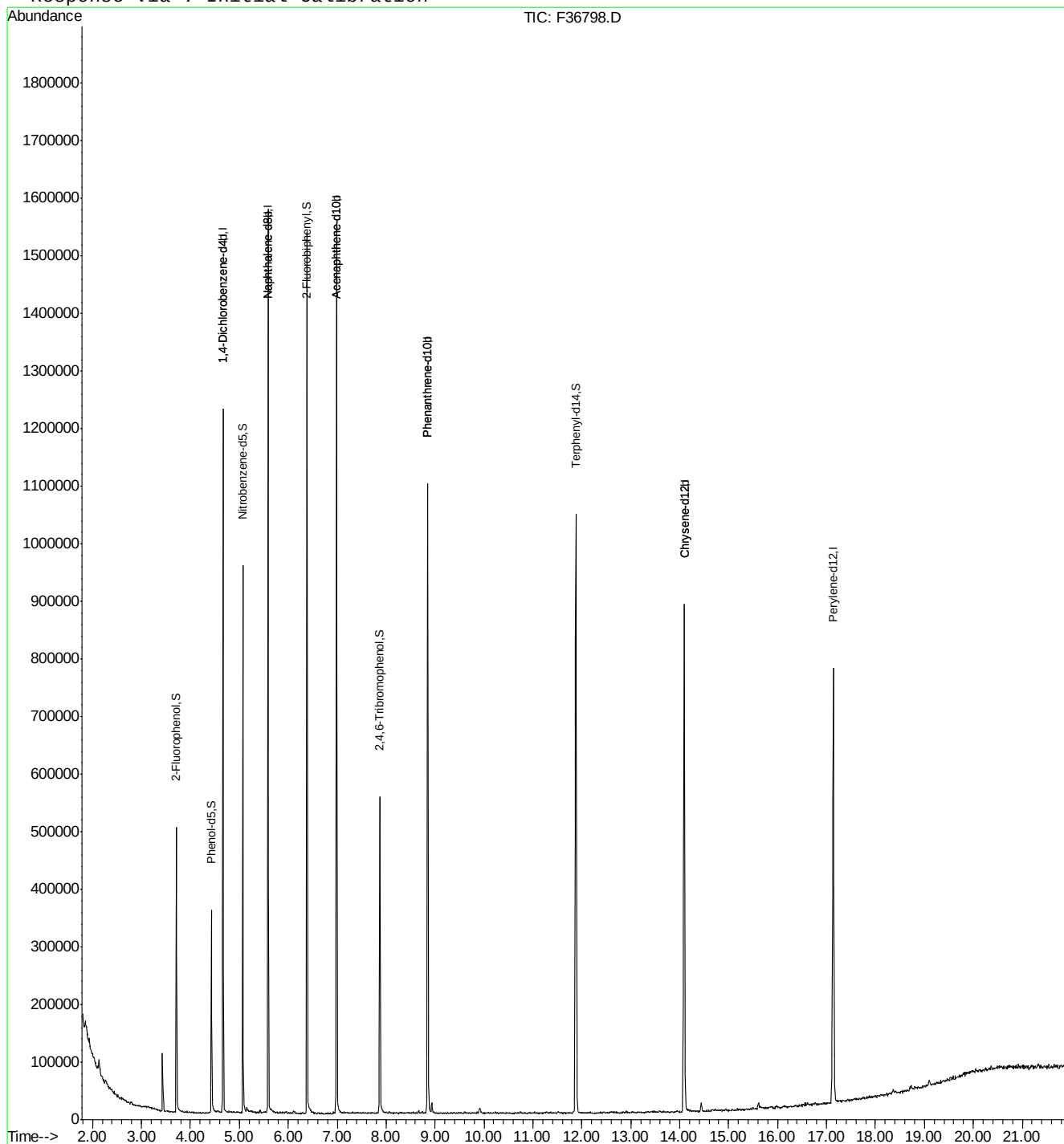
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5726\F36798.D
Acq On : 6 Jul 2014 8:23 pm
Sample : jb70517-4
Misc : op76142,ef5726,870
MS Integration Params: LSCINT.P
Quant Time: Jul 7 17:58 2014

Vial: 15
Operator: ashleyd
Inst : MSF
Multiplr: 1.00

Quant Results File: MF5692.RES

Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sat Jul 05 11:45:00 2014
Response via : Initial Calibration



F36798.D MF5692.M

Mon Jul 07 17:58:17 2014

RT1

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Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p364\
 Data File : 6p8440.D
 Acq On : 3 Jul 2014 12:50 am
 Operator : andrews1
 Sample : op76077-mb1
 Misc : op76077,e6p364,35.0
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 03 12:13:57 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Fri Jun 27 22:47:50 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.520	152	275489	40.00	ppb	-0.01
24) Naphthalene-d8	5.595	136	1102885	40.00	ppb	-0.02
47) Acenaphthene-d10	7.649	164	662016	40.00	ppb	-0.01
69) Phenanthrene-d10	9.842	188	1033251	40.00	ppb	0.01
83) Chrysene-d12	14.056	240	1071096	40.00	ppb	0.03
92) Perylene-d12	16.191	264	1025723	40.00	ppb	0.05
102) 1,4-Dichlorobenzene-d4a	4.520	152	275489	40.00	ppb	0.00
104) Phenanthrene-d10a	9.842	188	1033251	40.00	ppb	0.02
106) Chrysene-d12a	14.056	240	1071096	40.00	ppb	0.04
108) Acenaphthene-d10a	7.649	164	662016	40.00	ppb	0.00
110) Naphthalene-d8a	5.595	136	1102885	40.00	ppb	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	3.530	112	477270	45.16	ppb	0.00
Spiked Amount	50.000		Recovery	=	90.32%	
8) Phenol-d5	4.268	99	598401	45.24	ppb	0.00
Spiked Amount	50.000		Recovery	=	90.48%	
25) Nitrobenzene-d5	4.953	82	612440	49.55	ppb	-0.02
Spiked Amount	50.000		Recovery	=	99.10%	
51) 2-Fluorobiphenyl	6.777	172	973744	44.61	ppb	-0.02
Spiked Amount	50.000		Recovery	=	89.22%	
73) 2,4,6-Tribromophenol	8.788	330	134098	48.79	ppb	0.00
Spiked Amount	50.000		Recovery	=	97.58%	
86) Terphenyl-d14	12.425	244	1069982	44.65	ppb	0.02
Spiked Amount	50.000		Recovery	=	89.30%	

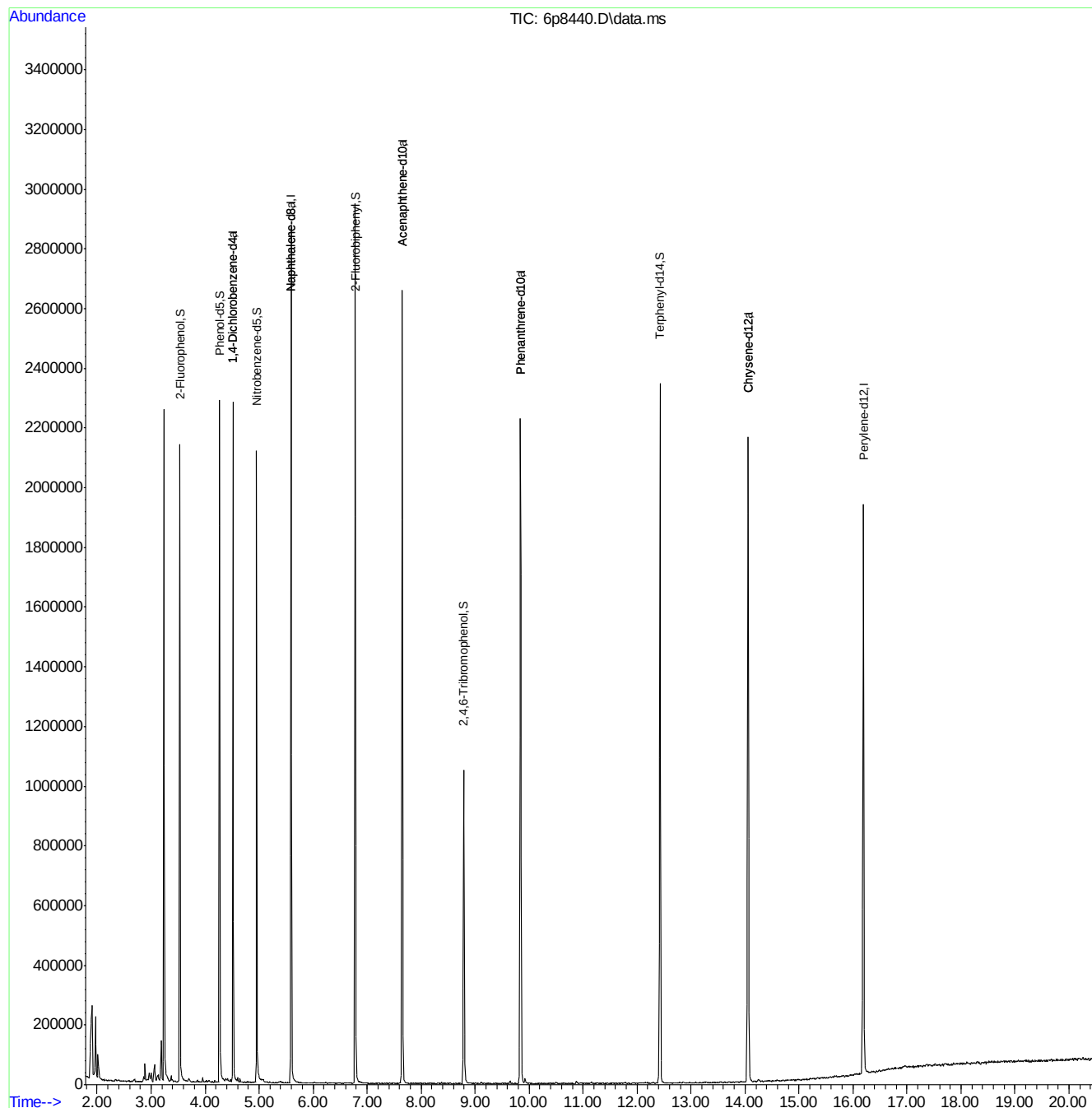
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p364\
Data File : 6p8440.D
Acq On : 3 Jul 2014 12:50 am
Operator : andrews1
Sample : op76077-mb1
Misc : op76077,e6p364,35.0
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 03 12:13:57 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Fri Jun 27 22:47:50 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1594\
 Data File : 2p38164.D
 Acq On : 5 Jul 2014 1:12 pm
 Operator : andrews1
 Sample : op76077-mb1
 Misc : op76077,e2p1594,35.0
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 10 10:20:12 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Wed Jul 09 10:31:08 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.239	152	1956907	40.00	ppb	0.03
24) Naphthalene-d8	5.288	136	7146165	40.00	ppb	0.03
47) Acenaphthene-d10	6.721	164	3874285	40.00	ppb	0.03
69) Phenanthrene-d10	7.962	188	6208253	40.00	ppb	0.03
83) Chrysene-d12	11.091	240	5843612	40.00	ppb	0.05
92) Perylene-d12	13.081	264	5073639	40.00	ppb	0.05
102) 1,4-Dichlorobenzene-d4a	4.239	152	1956907	40.00	ppb	0.03
104) Acenaphthene-d10a	6.721	164	3874285	40.00	ppb	0.03
107) Chrysene-d12a	11.091	240	5843612	40.00	ppb	0.05
109) Naphthalene-d8a	5.288	136	7146165	40.00	ppb	0.03
System Monitoring Compounds						
5) 2-Fluorophenol	3.196	112	2495013	42.88	ppb	0.04
Spiked Amount 50.000	Range 11	- 58	Recovery	=	85.76%#	
8) Phenol-d5	4.057	99	3141915	47.77	ppb	0.05
Spiked Amount 50.000	Range 10	- 59	Recovery	=	95.54%#	
25) Nitrobenzene-d5	4.721	82	2922500	49.69	ppb	0.03
Spiked Amount 50.000	Range 19	- 61	Recovery	=	99.38%#	
51) 2-Fluorobiphenyl	6.181	172	5952127	50.59	ppb	0.03
Spiked Amount 50.000	Range 21	- 58	Recovery	=	101.18%#	
73) 2,4,6-Tribromophenol	7.390	330	925979	52.60	ppb	0.03
Spiked Amount 50.000	Range 12	- 68	Recovery	=	105.20%#	
85) Terphenyl-d14	9.689	244	5975626	51.09	ppb	0.04
Spiked Amount 50.000	Range 16	- 65	Recovery	=	102.18%#	

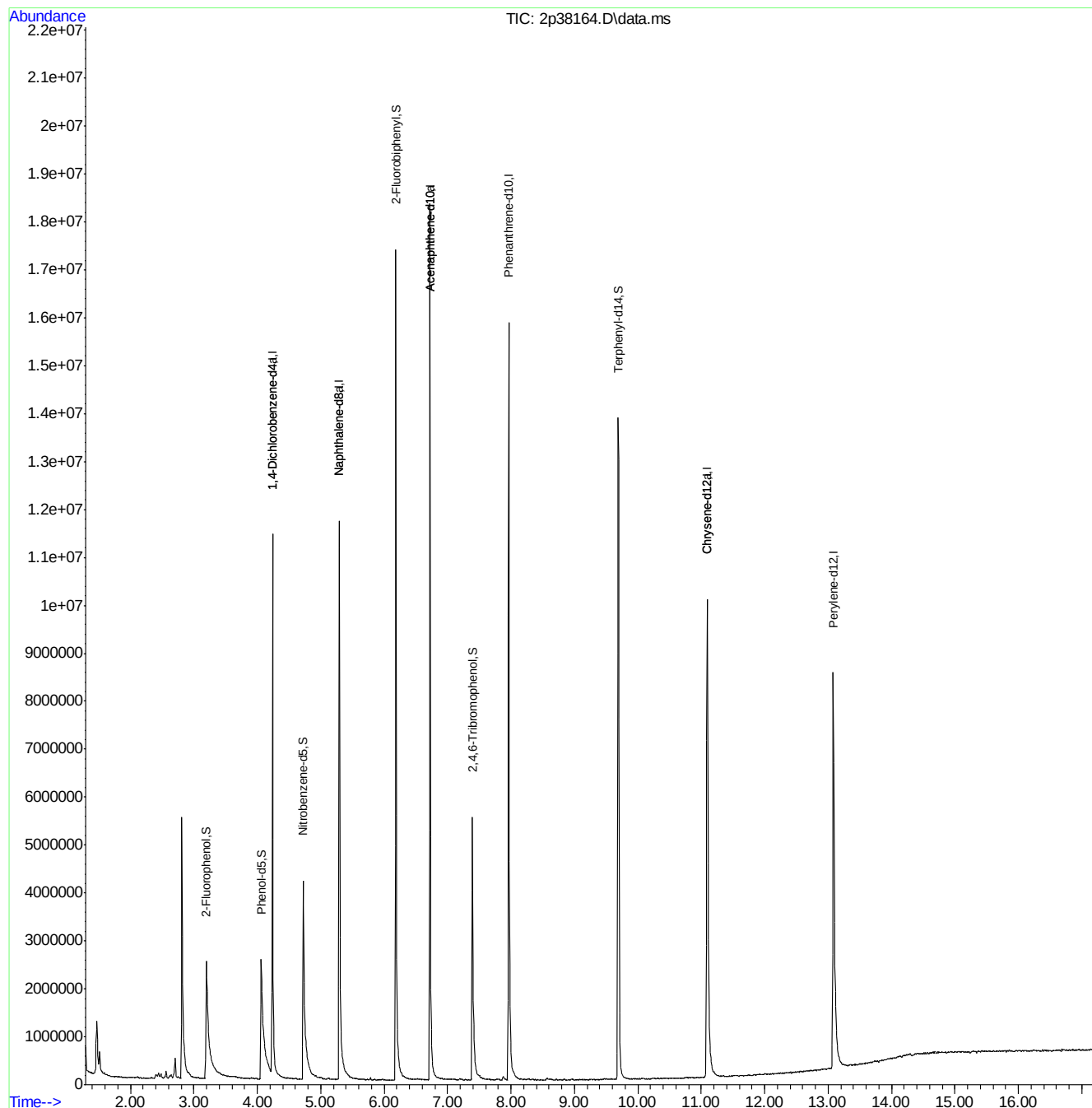
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1594\
Data File : 2p38164.D
Acq On : 5 Jul 2014 1:12 pm
Operator : andrews1
Sample : op76077-mb1
Misc : op76077,e2p1594,35.0
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 10 10:20:12 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 09 10:31:08 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4640\
 Data File : z93539.D
 Acq On : 12 Jul 2014 12:19 am
 Operator : andrews1
 Sample : op76077-mb1
 Misc : op76077,ez4640,35.0
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 12 14:44:22 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MZ4615.M
 Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 QLast Update : Fri Jul 11 08:30:32 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.101	152	229543	40.00	ppb	-0.03
24) Naphthalene-d8	4.399	136	897628	40.00	ppb	-0.03
47) Acenaphthene-d10	6.424	164	526652	40.00	ppb	-0.03
69) Phenanthrene-d10	8.192	188	905927	40.00	ppb	-0.03
83) Chrysene-d12	11.782	240	780070	40.00	ppb	-0.03
92) Perylene-d12	13.807	264	642822	40.00	ppb	-0.03
102) 1,4-Dichlorobenzene-d4a	3.101	152	229543	40.00	ppb	-0.03
104) Phenanthrene-d10a	8.192	188	905927	40.00	ppb	-0.03
106) Chrysene-d12a	11.782	240	780070	40.00	ppb	-0.03
108) Acenaphthene-d10a	6.424	164	526652	40.00	ppb	-0.03
110) Naphthalene-d8a	4.399	136	897628	40.00	ppb	-0.03
112) Chrysene-d12b	11.782	240	780070	40.00	ppb	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	2.091	112	280487	48.02	ppb	-0.02
Spiked Amount 50.000			Recovery	=	96.04%	
8) Phenol-d5	2.813	99	358701	43.42	ppb	-0.02
Spiked Amount 50.000			Recovery	=	86.84%	
25) Nitrobenzene-d5	3.646	82	431737	52.70	ppb	-0.03
Spiked Amount 50.000			Recovery	=	105.40%	
51) 2-Fluorobiphenyl	5.660	172	826608	53.43	ppb	-0.03
Spiked Amount 50.000			Recovery	=	106.86%	
73) 2,4,6-Tribromophenol	7.375	330	123977	49.07	ppb	-0.03
Spiked Amount 50.000			Recovery	=	98.14%	
86) Terphenyl-d14	10.308	244	861625	58.04	ppb	-0.03
Spiked Amount 50.000			Recovery	=	116.08%	

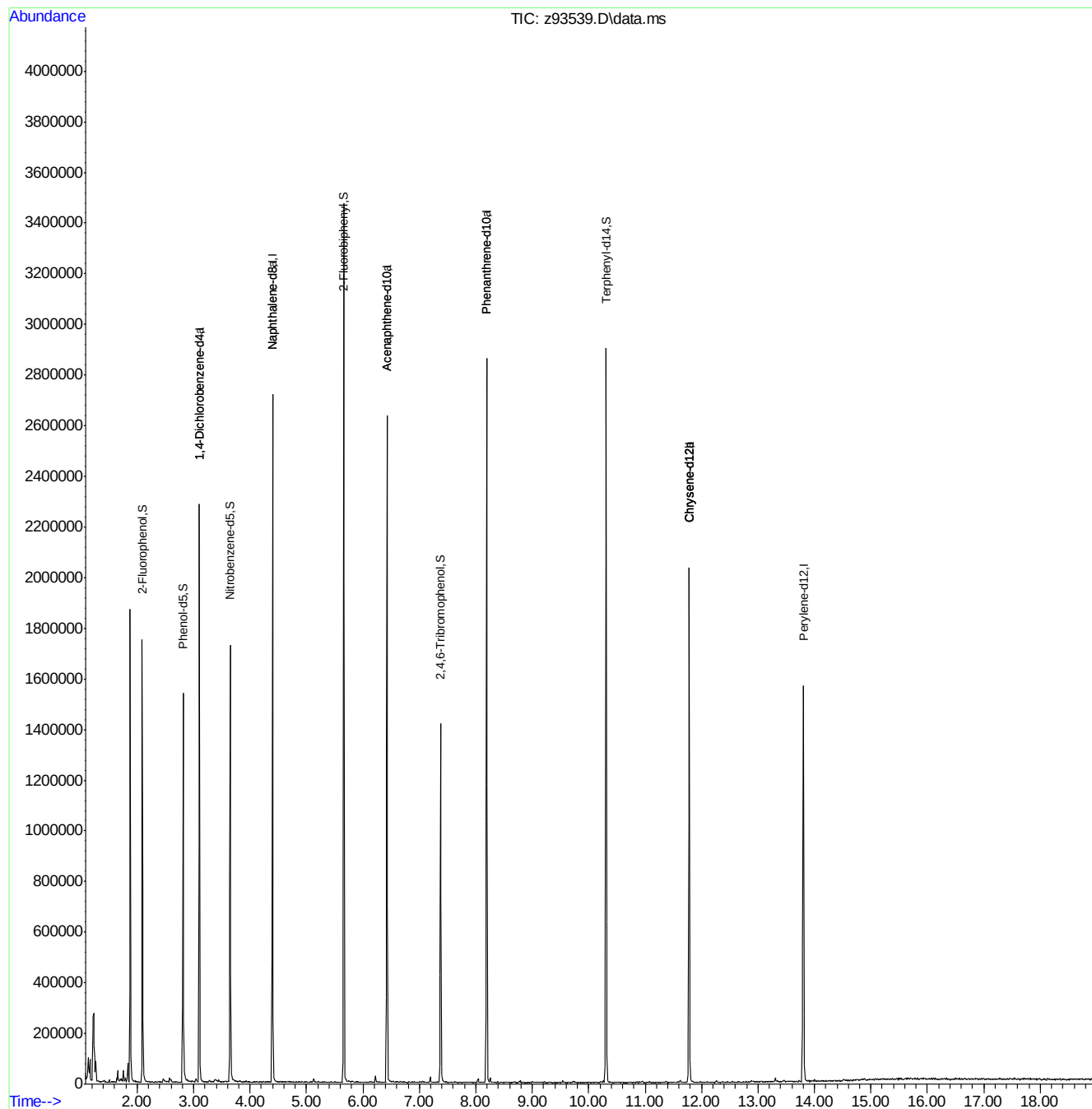
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4640\
Data File : z93539.D
Acq On : 12 Jul 2014 12:19 am
Operator : andrews1
Sample : op76077-mb1
Misc : op76077,ez4640,35.0
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 12 14:44:22 2014
Quant Method : C:\MSDCHEM\1\METHODS\MZ4615.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Fri Jul 11 08:30:32 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5726\F36792.D Vial: 9
 Acq On : 6 Jul 2014 5:29 pm Operator: ashleyd
 Sample : op76142-mb1 Inst : MSF
 Misc : op76142,ef5726,1000 Multiplr: 1.00
 MS Integration Params: LSCINT.P
 Quant Time: Jul 06 17:51:29 2014 Quant Results File: MF5692.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)
 Title : Semi Volatile Extractables by GC/MS
 Last Update : Sat Jul 05 11:45:00 2014
 Response via : Initial Calibration
 DataAcq Meth : MF5692

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.66	152	184952	40.00	ppb	0.00
24) Naphthalene-d8	5.58	136	676246	40.00	ppb	-0.01
47) Acenaphthene-d10	6.99	164	396003	40.00	ppb	0.00
69) Phenanthrene-d10	8.85	188	639695	40.00	ppb	-0.01
83) Chrysene-d12	14.09	240	642680	40.00	ppb	-0.02
92) Perylene-d12	17.13	264	579549	40.00	ppb	-0.01
102) 1,4-Dichlorobenzene-d4b	4.66	152	184952	40.00	ppb	0.00
104) Naphthalene-d8b	5.58	136	676246	40.00	ppb	-0.01
106) Acenaphthene-d10b	6.99	164	396003	40.00	ppb	0.00
108) Phenanthrene-d10b	8.85	188	639695	40.00	ppb	-0.01
110) Chrysene-d12b	14.09	240	642680	40.00	ppb	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	3.71	112	139627	20.92	ppb	0.00
Spiked Amount 50.000			Recovery =	41.84%		
8) Phenol-d5	4.42	99	116117	13.89	ppb	0.00
Spiked Amount 50.000			Recovery =	27.78%		
25) Nitrobenzene-d5	5.07	82	254616	35.69	ppb	0.00
Spiked Amount 50.000			Recovery =	71.38%		
51) 2-Fluorobiphenyl	6.38	172	451972	32.77	ppb	0.00
Spiked Amount 50.000			Recovery =	65.54%		
73) 2,4,6-Tribromophenol	7.87	330	61158	42.57	ppb	-0.01
Spiked Amount 50.000			Recovery =	85.14%		
85) Terphenyl-d14	11.88	244	589669	40.36	ppb	0.00
Spiked Amount 50.000			Recovery =	80.72%		
Target Compounds						
91) bis(2-Ethylhexyl)phthalate	14.44	149	55136	4.50	ppb	Qvalue 100

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 F36792.D MF5692.M Mon Jul 07 17:49:45 2014 RT1

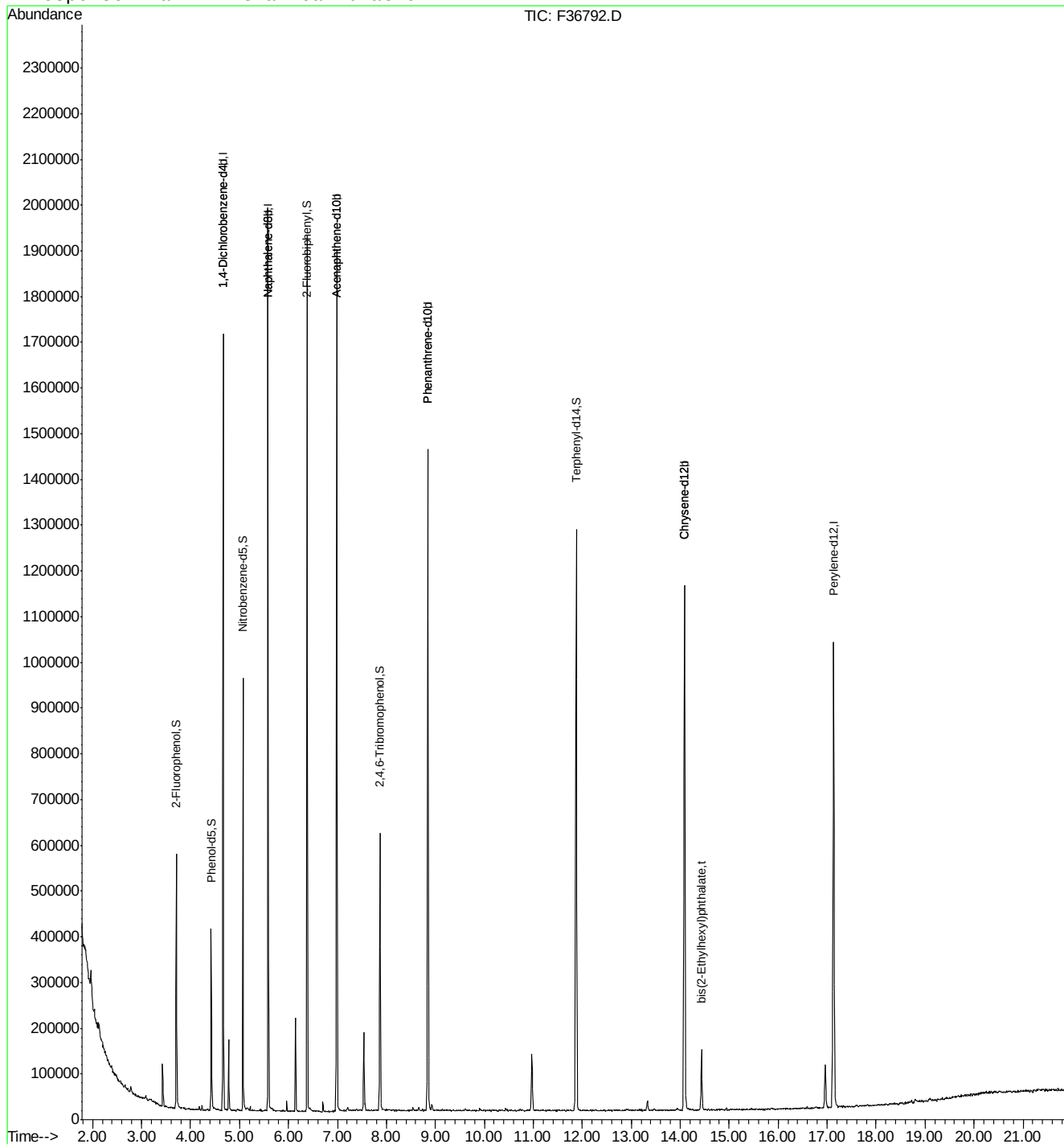
Quantitation Report (QT Reviewed)

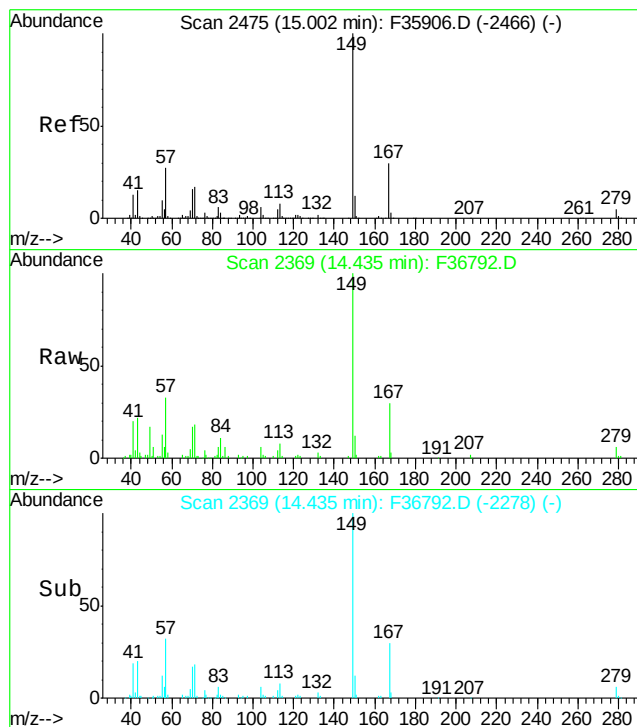
Data File : C:\MSDCHEM\1\DATA\EF5726\F36792.D
Acq On : 6 Jul 2014 5:29 pm
Sample : op76142-mb1
Misc : op76142,ef5726,1000
MS Integration Params: LSCINT.P
Quant Time: Jul 7 17:49 2014

Vial: 9
Operator: ashleyd
Inst : MSF
Multiplr: 1.00

Quant Results File: MF5692.RES

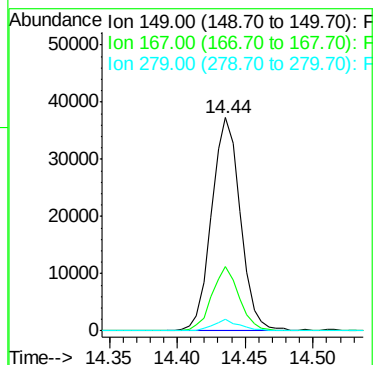
Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sat Jul 05 11:45:00 2014
Response via : Initial Calibration





#91
bis(2-Ethylhexyl)phthalate
Concen: 4.50 ppb
RT: 14.44 min Scan# 2369
Delta R.T. -0.02 min
Lab File: F36792.D
Acq: 6 Jul 2014 5:29 pm

Tgt Ion	Ratio	Lower	Upper
149	100		
167	30.2	0.4	60.4
279	5.5	0.0	35.4



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p368\
Data File : 6p8544.D
Acq On : 8 Jul 2014 12:40 pm
Operator : ashleyv
Sample : op76142-mb1
Misc : op76142,e6p368,1000
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 08 16:48:23 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Tue Jul 08 16:46:27 2014
Response via : Initial Calibration

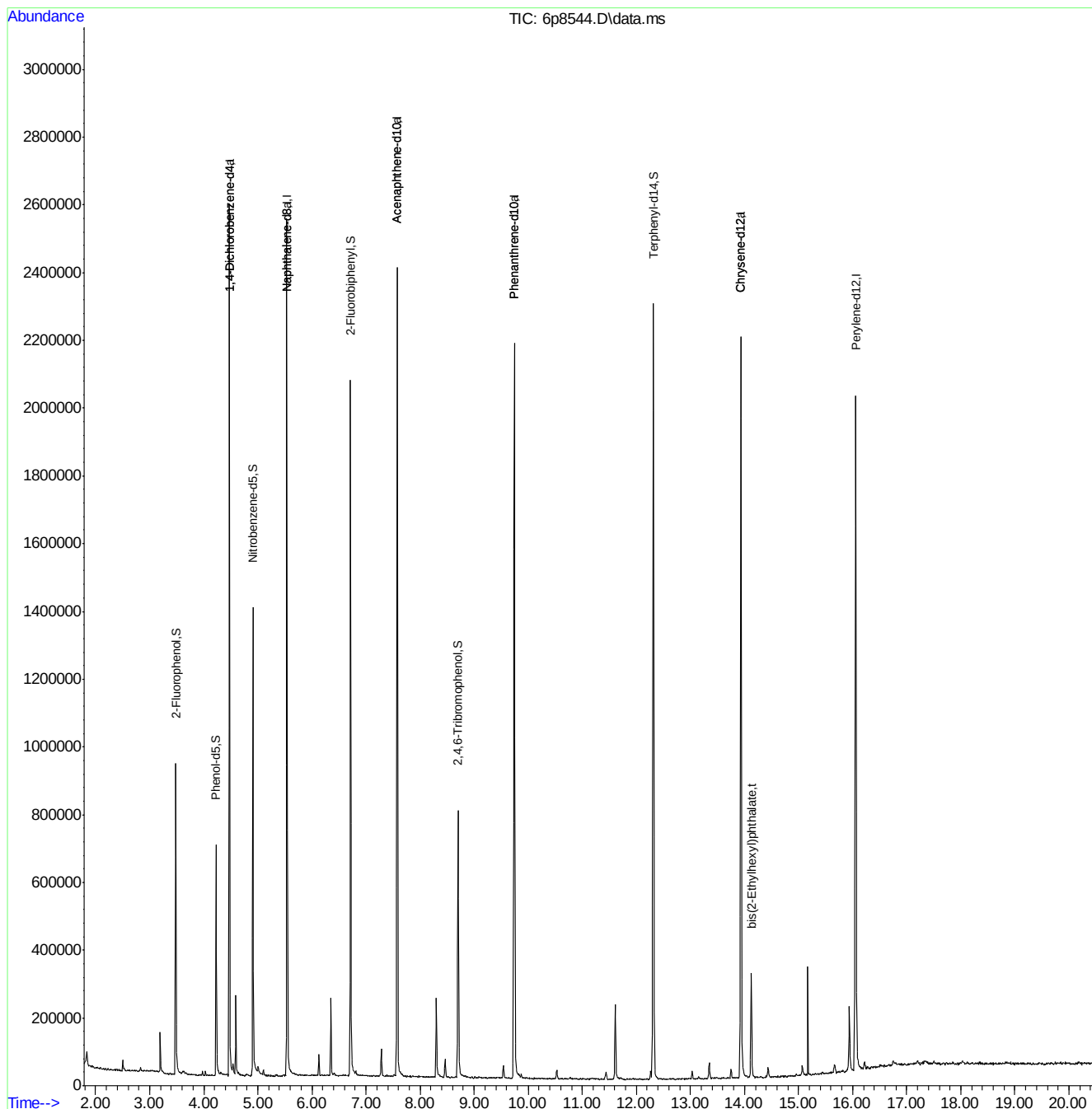
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.472	152	248209	40.00	ppb	0.00
24) Naphthalene-d8	5.536	136	1007026	40.00	ppb	0.00
47) Acenaphthene-d10	7.574	164	621830	40.00	ppb	0.00
69) Phenanthrene-d10	9.740	188	1005395	40.00	ppb	0.00
83) Chrysene-d12	13.934	240	1040985	40.00	ppb	0.00
92) Perylene-d12	16.057	264	944276	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	4.472	152	248209	40.00	ppb	0.00
104) Phenanthrene-d10a	9.740	188	1005395	40.00	ppb	0.00
106) Chrysene-d12a	13.934	240	1040985	40.00	ppb	0.00
108) Acenaphthene-d10a	7.574	164	621830	40.00	ppb	0.00
110) Naphthalene-d8a	5.536	136	1007026	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.482	112	194473	20.42	ppb	0.00
Spiked Amount	50.000		Recovery	=	40.84%	
8) Phenol-d5	4.226	99	159764	13.41	ppb	0.00
Spiked Amount	50.000		Recovery	=	26.82%	
25) Nitrobenzene-d5	4.905	82	403536	35.75	ppb	0.00
Spiked Amount	50.000		Recovery	=	71.50%	
51) 2-Fluorobiphenyl	6.713	172	685070	33.41	ppb	0.00
Spiked Amount	50.000		Recovery	=	66.82%	
73) 2,4,6-Tribromophenol	8.703	330	95140	35.58	ppb	0.00
Spiked Amount	50.000		Recovery	=	71.16%	
86) Terphenyl-d14	12.313	244	976693	41.93	ppb	0.00
Spiked Amount	50.000		Recovery	=	83.86%	
Target Compounds						
91) bis(2-Ethylhexyl)phtha...	14.126	149	97032m	4.84	ppb	Qvalue

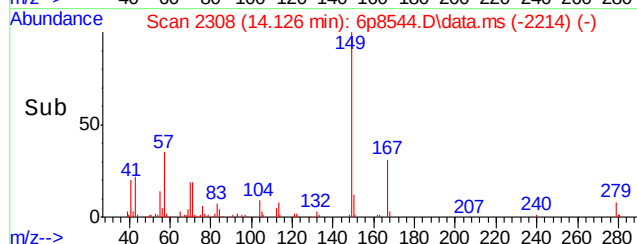
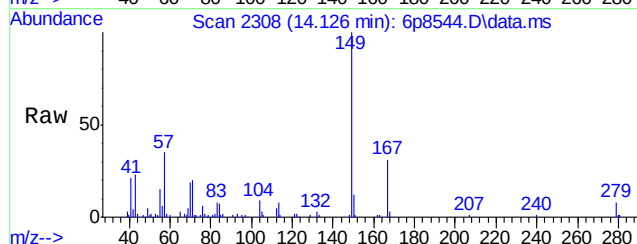
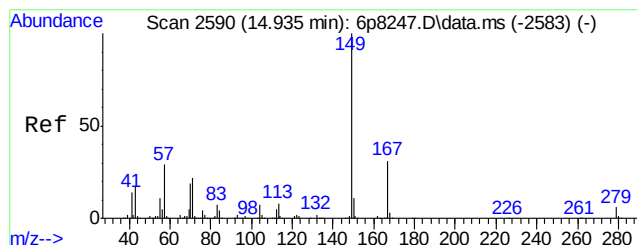
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p368\
Data File : 6p8544.D
Acq On : 8 Jul 2014 12:40 pm
Operator : ashleyv
Sample : op76142-mb1
Misc : op76142,e6p368,1000
ALS Vial : 5 Sample Multiplier: 1

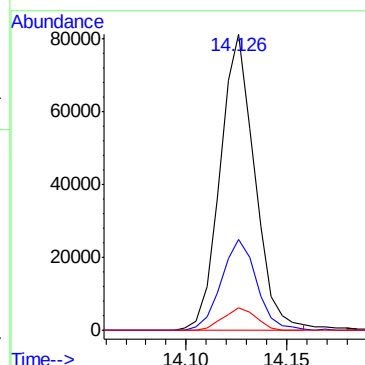
Quant Time: Jul 08 16:48:23 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Tue Jul 08 16:46:27 2014
Response via : Initial Calibration





#91
bis(2-Ethylhexyl)phthalate
Concen: 4.84 ppb m
RT: 14.126 min Scan# 2308
Delta R.T. 0.005 min
Lab File: 6p8544.D
Acq: 8 Jul 2014 12:40 pm

Tgt Ion	Ratio	Lower	Upper
149	100		
167	30.6	1.3	61.3
279	7.7	0.0	36.4



Manual Integration Approval Summary

Sample Number: OP76142-MB1

Method: SW846 8270D

Lab FileID: 6P8544.D

Analyst approved: 07/08/14 16:48 Ashley Vought

Injection Time: 07/08/14 12:40

Supervisor approved: 07/13/14 17:46 Cheng-Hwan Ao

Parameter	CAS	Sig#	R.T. (min.)	Reason
bis(2-Ethylhexyl)phthalate	117-81-7		14.13	Poor instrument integration

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p364\
 Data File : 6p8441.D
 Acq On : 3 Jul 2014 1:18 am
 Operator : andrews1
 Sample : op76077-bs1
 Misc : op76077,e6p364,35.0
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 03 12:16:55 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Fri Jun 27 22:47:50 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.520	152	259720	40.00	ppb	-0.01
24) Naphthalene-d8	5.595	136	1038293	40.00	ppb	-0.02
47) Acenaphthene-d10	7.654	164	641463	40.00	ppb	0.00
69) Phenanthrene-d10	9.847	188	1015523	40.00	ppb	0.02
83) Chrysene-d12	14.067	240	978882	40.00	ppb	0.04
92) Perylene-d12	16.201	264	1022987	40.00	ppb	0.06
102) 1,4-Dichlorobenzene-d4a	4.520	152	259720	40.00	ppb	0.00
104) Phenanthrene-d10a	9.847	188	1015523	40.00	ppb	0.03
106) Chrysene-d12a	14.067	240	978882	40.00	ppb	0.05
108) Acenaphthene-d10a	7.654	164	641463	40.00	ppb	0.00
110) Naphthalene-d8a	5.595	136	1038293	40.00	ppb	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	3.531	112	435881	43.75	ppb	0.00
Spiked Amount 50.000			Recovery	=	87.50%	
8) Phenol-d5	4.274	99	530597	42.55	ppb	0.00
Spiked Amount 50.000			Recovery	=	85.10%	
25) Nitrobenzene-d5	4.959	82	557065	47.87	ppb	-0.02
Spiked Amount 50.000			Recovery	=	95.74%	
51) 2-Fluorobiphenyl	6.783	172	892285	42.19	ppb	-0.02
Spiked Amount 50.000			Recovery	=	84.38%	
73) 2,4,6-Tribromophenol	8.799	330	131342	48.62	ppb	0.01
Spiked Amount 50.000			Recovery	=	97.24%	
86) Terphenyl-d14	12.425	244	1056201	48.22	ppb	0.02
Spiked Amount 50.000			Recovery	=	96.44%	
Target Compounds						
						Qvalue
2) 1,4-Dioxane	1.996	88	154009	36.76	ppb	92
3) Pyridine	2.332	79	445048	40.53	ppb	93
4) N-Nitrosodimethylamine	2.295	74	297275	42.97	ppb	79
6) Indene	4.718	116	834120	47.70	ppb	100
7) Cumene	3.910	105	1125269	44.02	ppb	95
9) Phenol	4.279	94	720639	48.25	ppb	# 29
10) Aniline	4.274	93	504390	30.17	ppb	70
11) bis(2-Chloroethyl)ether	4.322	93	489443	45.88	ppb	97
12) 2-Chlorophenol	4.370	128	488595	48.61	ppb	94
13) Decane	4.402	43	536523	47.30	ppb	93
14) 1,3-Dichlorobenzene	4.477	146	448006	40.47	ppb	97
15) 1,4-Dichlorobenzene	4.531	146	451257	40.48	ppb	97
16) Benzyl alcohol	4.632	108	314699	44.54	ppb	80
17) 1,2-Dichlorobenzene	4.648	146	428018	40.53	ppb	98
18) Acetophenone	4.836	105	708893	47.33	ppb	93
19) 2-Methylphenol	4.734	108	458926	50.64	ppb	99
20) 2,2'-oxybis(1-Chloropr...	4.734	121	147749	41.89	ppb	91
21) 3&4-Methylphenol	4.852	108	493631	51.52	ppb	99
22) n-Nitroso-di-n-propyla...	4.841	70	351046	45.00	ppb	92
23) Hexachloroethane	4.916	201	171941	44.75	ppb	92
26) Nitrobenzene	4.975	77	601174	46.99	ppb	99
27) Quinoline	5.954	129	945265	47.25	ppb	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p364\
 Data File : 6p8441.D
 Acq On : 3 Jul 2014 1:18 am
 Operator : andrews1
 Sample : op76077-bs1
 Misc : op76077,e6p364,35.0
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 03 12:16:55 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Fri Jun 27 22:47:50 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
28) Isophorone	5.178	82	958564	44.16	ppb	97
29) 2-Nitrophenol	5.247	139	269927	50.66	ppb	87
30) 2,4-Dimethylphenol	5.296	107	539969	60.03	ppb	95
31) Benzoic Acid	5.413	105	398335m	54.39	ppb	
32) bis(2-Chloroethoxy)met...	5.370	93	580778	47.31	ppb	99
33) 2,4-Dichlorophenol	5.472	162	400273	50.08	ppb	95
34) 2,6-Dichlorophenol	5.686	162	393458	49.80	ppb	99
36) 1,2,4-Trichlorobenzene	5.542	180	386789	42.95	ppb	98
38) Naphthalene	5.617	128	1194562	40.84	ppb	99
39) 4-Chloroaniline	5.675	127	292513	24.26	ppb	96
40) 2,3-Dichloroaniline	6.676	161	439798	42.16	ppb	98
41) Caprolactam	6.060	55	254305	50.87	ppb	96
42) Hexachlorobutadiene	5.740	225	219217	45.56	ppb	99
43) 4-Chloro-3-methylphenol	6.200	107	479833	51.26	ppb	98
44) 2-Methylnaphthalene	6.339	141	689214	41.20	ppb	97
45) 1-Methylnaphthalene	6.451	141	772167	45.25	ppb	98
46) Dimethylnaphthalene	7.103	156	823831	45.44	ppb	96
48) Hexachlorocyclopentadiene	6.531	237	465783	99.33	ppb	100
49) 2,4,6-Trichlorophenol	6.692	196	311515	51.09	ppb	100
50) 2,4,5-Trichlorophenol	6.745	196	331707	50.39	ppb	99
52) 2-Chloronaphthalene	6.922	162	817334	41.26	ppb	98
53) Biphenyl	6.906	154	1087734	44.64	ppb	98
54) 2-Nitroaniline	7.066	65	319260	47.26	ppb	92
55) Dimethylphthalate	7.317	163	935446	43.80	ppb	100
56) Acenaphthylene	7.456	152	1089547	36.37	ppb	100
57) 2,6-Dinitrotoluene	7.392	165	217146	44.51	ppb	86
58) 3-Nitroaniline	7.617	138	154550	28.16	ppb	98
59) Acenaphthene	7.697	153	805613	43.11	ppb	99
60) 2,4-Dinitrophenol	7.772	184	245088	88.84	ppb	81
61) 4-Nitrophenol	7.916	109	171528	62.39	ppb	92
62) Dibenzofuran	7.938	168	1104199	40.46	ppb	96
63) 2,4-Dinitrotoluene	7.959	165	295146	45.61	ppb	79
64) 2,3,4,6-Tetrachlorophenol	8.141	232	253103	48.95	ppb	94
65) Diethylphthalate	8.334	149	898127	42.62	ppb	98
66) Fluorene	8.435	166	963049	42.95	ppb	99
67) 4-Chlorophenyl-phenyle...	8.457	204	459699	43.48	ppb	99
68) 4-Nitroaniline	8.505	138	231103	41.56	ppb	85
70) 4,6-Dinitro-2-methylph...	8.558	198	192021	48.79	ppb	96
71) n-Nitrosodiphenylamine	8.644	169	678602	46.50	ppb	99
72) 1,2-Diphenylhydrazine	8.692	77	1231886	48.05	ppb	99
74) 4-Bromophenyl-phenylether	9.189	248	260775	46.51	ppb	99
75) Hexachlorobenzene	9.270	284	281396	42.31	ppb	97
76) Pentachlorophenol	9.596	266	204435	53.72	ppb	98
77) Phenanthrene	9.885	178	1325931	42.52	ppb	98
78) Anthracene	9.965	178	1363210	43.76	ppb	99
79) Carbazole	10.243	167	1273930	41.83	ppb	99
80) Di-n-butylphthalate	10.880	149	1549799	46.58	ppb	99
81) Fluoranthene	11.757	202	1486909	43.23	ppb	98
82) Octadecane	9.821	57	773941	51.38	ppb	96
84) Pyrene	12.104	202	1561621	46.12	ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p364\
Data File : 6p8441.D
Acq On : 3 Jul 2014 1:18 am
Operator : andrews1
Sample : op76077-bs1
Misc : op76077,e6p364,35.0
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 03 12:16:55 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Fri Jun 27 22:47:50 2014
Response via : Initial Calibration

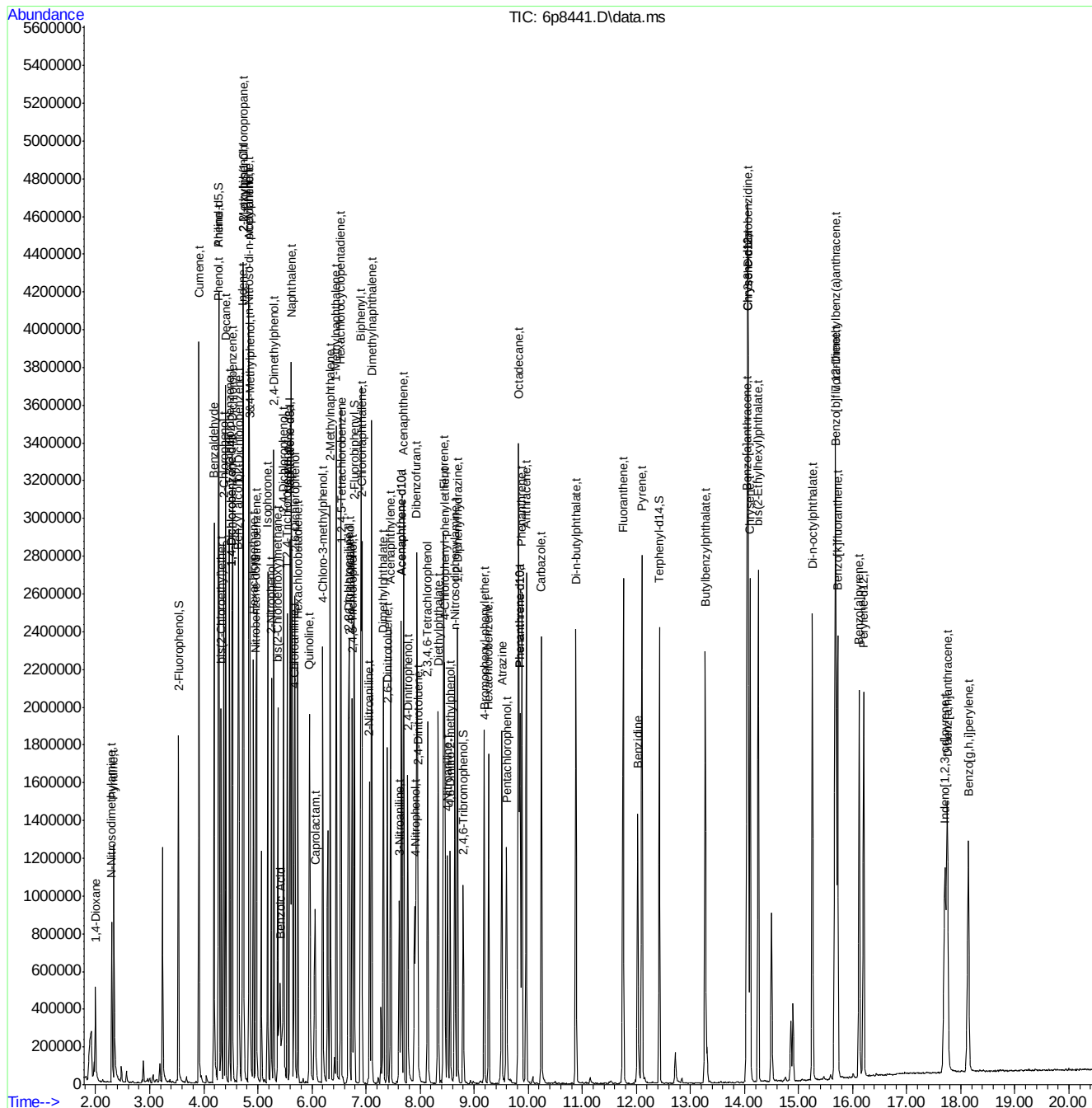
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
87) Butylbenzylphthalate	13.270	149	693245	49.82	ppb	92
88) Benzo[a]anthracene	14.046	228	1317613	44.38	ppb	98
89) 3,3'-Dichlorobenzidine	14.062	252	642804	60.11	ppb	99
90) Chrysene	14.105	228	1316471	44.43	ppb	99
91) bis(2-Ethylhexyl)phtha...	14.255	149	970089	51.43	ppb	98
93) Di-n-octylphthalate	15.255	149	1713703	50.56	ppb	96
94) Benzo[b]fluoranthene	15.688	252	1533989	46.36	ppb	98
95) Benzo[k]fluoranthene	15.720	252	1190461	35.04	ppb	100
96) Benzo[a]pyrene	16.121	252	1245434	40.47	ppb	98
97) Indeno[1,2,3-cd]pyrene	17.704	276	1160580	39.93	ppb	94
99) Dibenz[a,h]anthracene	17.747	278	1205169	38.94	ppb	96
100) 7,12-Dimethylbenz(a)an...	15.683	256	742396	61.95	ppb	98
101) Benzo[g,h,i]perylene	18.143	276	1085305	33.10	ppb	95
103) Benzaldehyde	4.188	105	365158	43.84	ppb	94
105) Atrazine	9.516	215	161236	53.72	ppb #	84
107) Benzidine	12.024	184	728896	48.44	ppb	77
109) 1,2,4,5-Tetrachloroben...	6.542	216	373116	40.50	ppb #	34

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

Quantitation Report (QT Reviewed)

```
Data Path   : C:\msdchem\1\DATA\6p364\
Data File   : 6p8441.D
Acq On      : 3 Jul 2014    1:18 am
Operator    : andrews1
Sample      : op76077-bs1
Misc        : op76077,6p364,35.0
ALS Vial    : 9      Sample Multiplier: 1
```

Quant Time: Jul 03 12:16:55 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Fri Jun 27 22:47:50 2014
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: OP76077-BS1

Method: SW846 8270D

Lab FileID: 6P8441.D

Analyst approved: 07/03/14 12:36 Kristi Schollenberger

Injection Time: 07/03/14 01:18

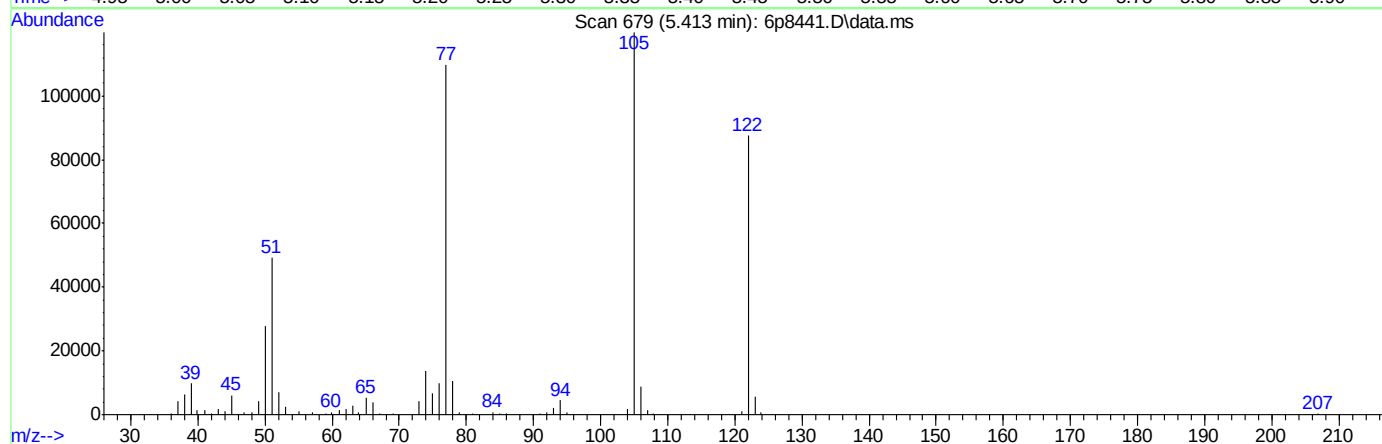
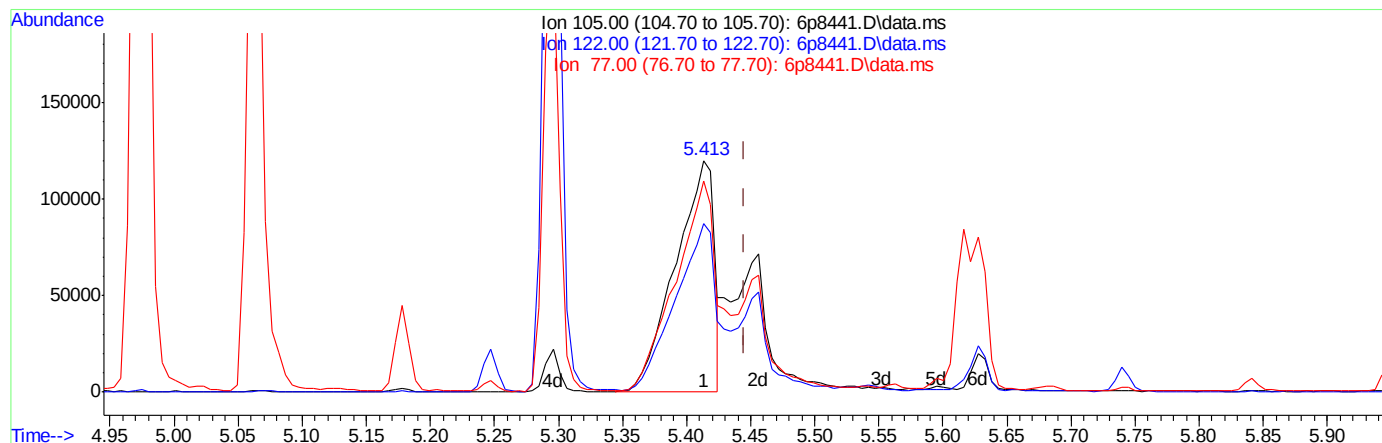
Supervisor approved: 07/03/14 13:50 Kristin Weiler

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic acid	65-85-0		5.41	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\6p364\
Data File : 6p8441.D
Acq On : 3 Jul 2014 1:18 am
Operator : andrews1
Sample : op76077-bs1
Misc : op76077,e6p364,35.0
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 03 01:39:24 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Fri Jun 27 22:47:50 2014
Response via : Initial Calibration



(31) Benzoic Acid

5.413min (-0.032) 34.72ppb

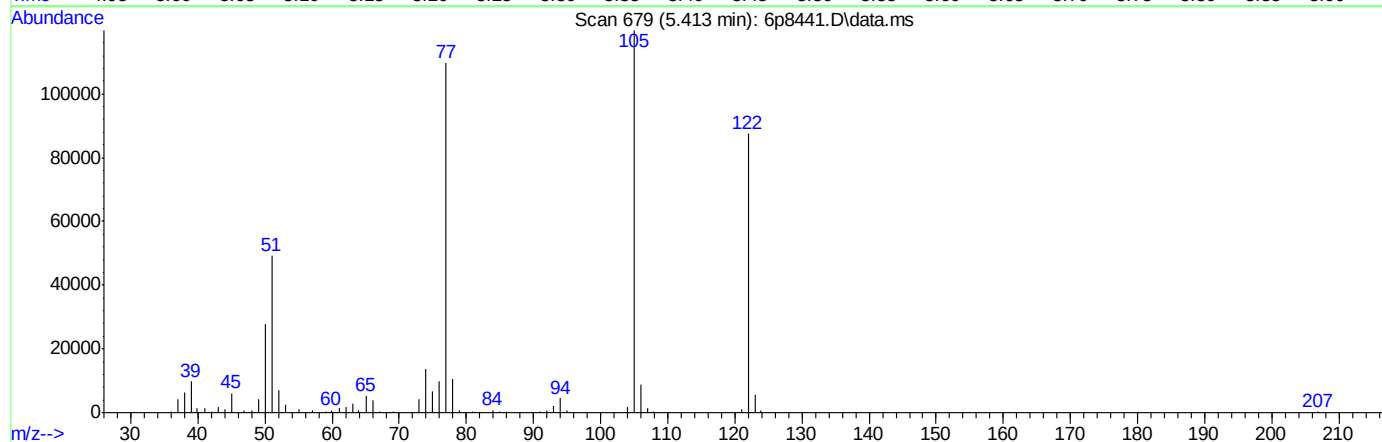
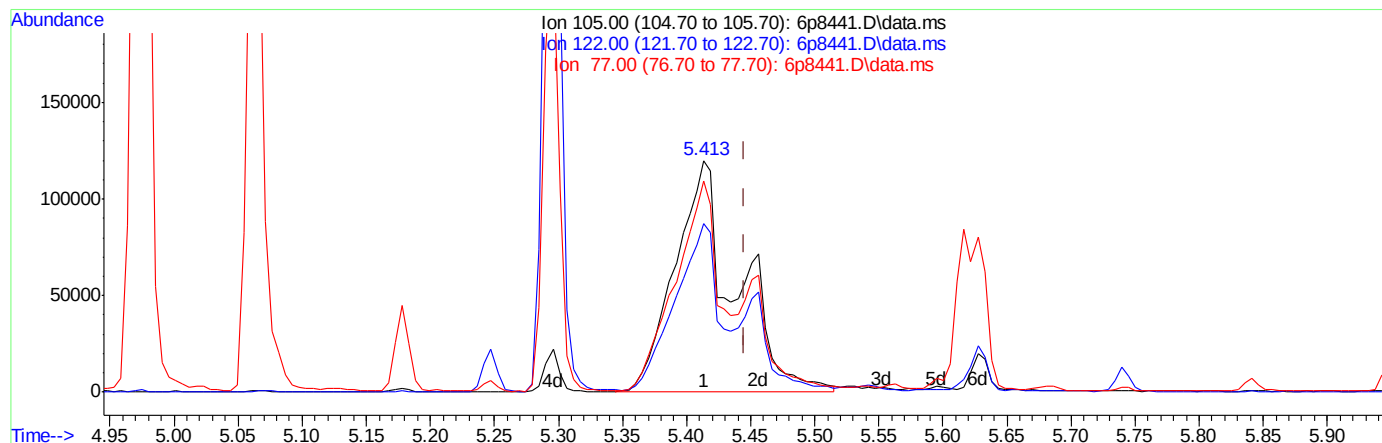
response 254315

Ion	Exp%	Act%
105.00	100	100
122.00	71.30	76.31
77.00	82.00	93.97
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\6p364\
Data File : 6p8441.D
Acq On : 3 Jul 2014 1:18 am
Operator : andrews1
Sample : op76077-bs1
Misc : op76077,e6p364,35.0
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 03 01:39:24 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Fri Jun 27 22:47:50 2014
Response via : Initial Calibration



(31) Benzoic Acid

5.413min (-0.032) 54.39ppb m

response 398335

Ion	Exp%	Act%
105.00	100	100
122.00	71.30	48.72#
77.00	82.00	60.00#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1594\
 Data File : 2p38165.D
 Acq On : 5 Jul 2014 1:34 pm
 Operator : andrews1
 Sample : op76077-bs1
 Misc : op76077,e2p1594,35.0
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 10 10:28:32 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Thu Jul 10 10:21:40 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.239	152	1786802	40.00	ppb	0.00
24) Naphthalene-d8	5.293	136	6128418	40.00	ppb	0.00
47) Acenaphthene-d10	6.727	164	3670981	40.00	ppb	0.00
69) Phenanthrene-d10	7.962	188	5957610	40.00	ppb	0.00
83) Chrysene-d12	11.096	240	5395719	40.00	ppb	0.00
92) Perylene-d12	13.086	264	4885740	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	4.239	152	1786802	40.00	ppb	0.00
104) Acenaphthene-d10a	6.727	164	3670981	40.00	ppb	0.00
107) Chrysene-d12a	11.096	240	5395719	40.00	ppb	0.00
109) Naphthalene-d8a	5.293	136	6128418	40.00	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol	3.196	112	2591641	48.79	ppb	0.00
Spiked Amount	50.000	Range	11 - 58	Recovery	=	97.58%#
8) Phenol-d5	4.047	99	2807376	46.75	ppb	0.00
Spiked Amount	50.000	Range	10 - 59	Recovery	=	93.50%#
25) Nitrobenzene-d5	4.721	82	2508933	49.75	ppb	0.00
Spiked Amount	50.000	Range	19 - 61	Recovery	=	99.50%#
51) 2-Fluorobiphenyl	6.181	172	5058581	45.38	ppb	0.00
Spiked Amount	50.000	Range	21 - 58	Recovery	=	90.76%#
73) 2,4,6-Tribromophenol	7.384	330	911055	53.93	ppb	0.00
Spiked Amount	50.000	Range	12 - 68	Recovery	=	107.86%#
85) Terphenyl-d14	9.690	244	5685620	52.65	ppb	0.00
Spiked Amount	50.000	Range	16 - 65	Recovery	=	105.30%#

Target Compounds

						Qvalue
2) 1,4-Dioxane	1.469	88	857604	35.28	ppb	99
3) Pyridine	1.790	79	2327589	40.10	ppb	96
4) N-Nitrosodimethylamine	1.747	74	1467865	41.83	ppb	91
6) Indene	4.448	116	4689771	51.76	ppb	98
7) Cumene	3.544	105	6526309	50.68	ppb	99
9) Phenol	4.058	94	3621581	52.50	ppb	89
10) Aniline	3.999	93	2080989	29.43	ppb	94
11) bis(2-Chloroethyl)ether	4.042	93	2461136	51.60	ppb	96
12) 2-Chlorophenol	4.100	128	3132727	53.65	ppb	95
13) Decane	4.116	57	2002767	45.16	ppb	99
14) 1,3-Dichlorobenzene	4.186	146	3008018	44.76	ppb	99
15) 1,4-Dichlorobenzene	4.250	146	2950115	42.87	ppb	99
16) Benzyl alcohol	4.411	108	1554966	49.68	ppb	84
17) 1,2-Dichlorobenzene	4.378	146	3047897	48.40	ppb	98
18) Acetophenone	4.603	105	3731073	49.79	ppb	99
19) 2-Methylphenol	4.534	108	2594916	51.96	ppb	99
20) 2,2'-oxybis(1-Chloropr...	4.485	121	589197	45.90	ppb	# 85
21) 3&4-Methylphenol	4.673	108	2684341	50.66	ppb	100
22) n-Nitroso-di-n-propyla...	4.614	70	1577748	47.78	ppb	99
23) Hexachloroethane	4.641	201	1152996	45.31	ppb	97
26) Nitrobenzene	4.737	77	2578122	48.76	ppb	97
27) Quinoline	5.614	129	5932063	55.08	ppb	99
28) Isophorone	4.940	82	4248618	49.50	ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1594\
 Data File : 2p38165.D
 Acq On : 5 Jul 2014 1:34 pm
 Operator : andrews1
 Sample : op76077-bs1
 Misc : op76077,e2p1594,35.0
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 10 10:28:32 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Thu Jul 10 10:21:40 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
29) 2-Nitrophenol	4.999	139	1735722m	60.71	ppb	
30) 2,4-Dimethylphenol	5.079	107	2788843	64.95	ppb	99
31) Benzoic acid	5.272	105	1564538	39.84	ppb	95
32) bis(2-Chloroethoxy)met...	5.122	93	2794221	53.87	ppb	99
33) 2,4-Dichlorophenol	5.240	162	2538165	59.28	ppb	98
34) 2,6-Dichlorophenol	5.395	162	2515046	59.36	ppb	99
36) 1,2,4-Trichlorobenzene	5.250	180	2511703	48.81	ppb	99
38) Naphthalene	5.309	128	6758906	47.92	ppb	98
39) 4-Chloroaniline	5.400	127	1738496	27.15	ppb	98
40) 2,3-Dichloroaniline	6.127	161	2705121	47.40	ppb	97
41) Caprolactam	5.737	113	697639	51.56	ppb	92
42) Hexachlorobutadiene	5.411	225	1435782	48.88	ppb	99
43) 4-Chloro-3-methylphenol	5.844	107	2330618	55.87	ppb	100
44) 2-Methylnaphthalene	5.881	141	4167369	46.76	ppb	98
45) 1-Methylnaphthalene	5.956	141	4672346	50.29	ppb	98
46) Dimethylnaphthalene	6.390	156	4759330	54.86	ppb	99
48) Hexachlorocyclopentadiene	6.004	237	2677508	100.50	ppb	99
49) 2,4,6-Trichlorophenol	6.149	196	1802804	56.45	ppb	97
50) 2,4,5-Trichlorophenol	6.202	196	1998883	52.85	ppb	100
52) 2-Chloronaphthalene	6.277	162	4424542	43.66	ppb	98
53) Biphenyl	6.261	154	6287449	49.46	ppb	99
54) 2-Nitroaniline	6.406	65	1218315	43.62	ppb	96
55) Dimethylphthalate	6.534	163	5120732	44.79	ppb	100
56) Acenaphthylene	6.609	152	6438361	40.06	ppb	99
57) 2,6-Dinitrotoluene	6.593	165	1194115	46.92	ppb	95
58) 3-Nitroaniline	6.753	138	818742	27.61	ppb	96
59) Acenaphthene	6.753	153	4839565	47.47	ppb	100
60) 2,4-Dinitrophenol	6.839	184	1588830	91.10	ppb	95
61) 4-Nitrophenol	6.983	109	732518m	60.60	ppb	
62) Dibenzofuran	6.898	168	6262899	44.61	ppb	98
63) 2,4-Dinitrotoluene	6.935	165	1569059	46.59	ppb	80
64) 2,3,4,6-Tetrachlorophenol	7.031	232	1563649	52.78	ppb	98
65) Diethylphthalate	7.106	149	5329599	46.53	ppb	99
66) Fluorene	7.176	166	5039346	45.73	ppb	99
67) 4-Chlorophenyl-phenyle...	7.176	204	2431157	47.20	ppb	97
68) 4-Nitroaniline	7.267	138	1216077	42.06	ppb	93
70) 4,6-Dinitro-2-methylph...	7.272	198	1020104	55.72	ppb	96
71) n-Nitrosodiphenylamine	7.288	169	3542042	49.96	ppb	99
72) 1,2-Diphenylhydrazine	7.310	77	5464208	54.67	ppb	99
74) 4-Bromophenyl-phenylether	7.572	248	1608076	51.16	ppb	94
75) Hexachlorobenzene	7.630	284	1877845	47.75	ppb	95
76) Pentachlorophenol	7.834	266	1154045	58.14	ppb	98
77) Phenanthrene	7.983	178	6907145	47.85	ppb	99
78) Anthracene	8.032	178	7355734	49.87	ppb	100
79) Carbazole	8.213	167	7243037	49.05	ppb	99
80) Di-n-butylphthalate	8.550	149	9041226	51.84	ppb	98
81) Fluoranthene	9.214	202	8379667	49.26	ppb	99
82) Octadecane	7.882	43	1935295	56.10	ppb	100
84) Pyrene	9.476	202	8432393	51.34	ppb	99
86) Butylbenzylphthalate	10.374	149	3947705	53.39	ppb	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1594\
Data File : 2p38165.D
Acq On : 5 Jul 2014 1:34 pm
Operator : andrews1
Sample : op76077-bs1
Misc : op76077,e2p1594,35.0
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 10 10:28:32 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 10 10:21:40 2014
Response via : Initial Calibration

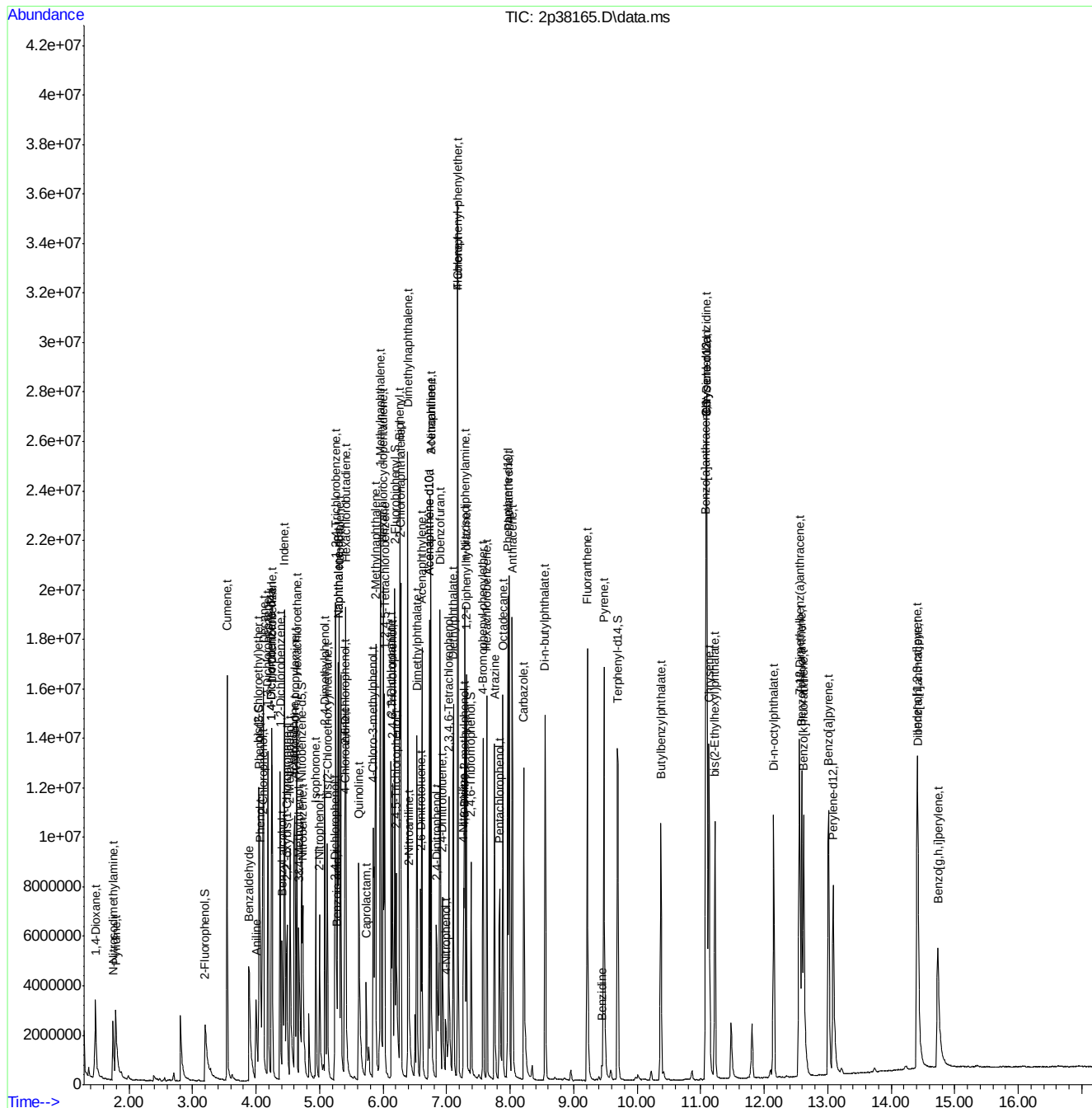
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
88) Benzo[a]anthracene	11.080	228	7147994	46.99	ppb	99
89) 3,3'-Dichlorobenzidine	11.096	252	3867879	69.95	ppb	99
90) Chrysene	11.134	228	6559538	48.91	ppb	99
91) bis(2-Ethylhexyl)phtha...	11.225	149	5195354	53.24	ppb	99
93) Di-n-octylphthalate	12.150	149	8957074	57.01	ppb	99
94) Benzo[b]fluoranthene	12.589	252	6140345	42.93	ppb	97
95) Benzo[k]fluoranthene	12.621	252	6466078	48.41	ppb	99
96) Benzo[a]pyrene	13.011	252	6163225	49.31	ppb	99
97) Indeno[1,2,3-cd]pyrene	14.407	276	6001605	38.89	ppb	99
99) Dibenz[a,h]anthracene	14.418	278	5026228	41.44	ppb	97
100) 7,12-Dimethylbenz(a)an...	12.551	256	3646980	61.05	ppb	99
101) Benzo[g,h,i]perylene	14.733	276	4656991	36.44	ppb	94
103) Benzaldehyde	3.886	105	2079009	46.66	ppb	99
105) Atrazine	7.753	215	702067	48.68	ppb	96
106) 1,2,4,5-Tetrachloroben...	6.021	216	2479475	39.32	ppb	100
108) Benzidine	9.449	184	756132	9.45	ppb	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1594\
Data File : 2p38165.D
Acq On : 5 Jul 2014 1:34 pm
Operator : andrews1
Sample : op76077-bs1
Misc : op76077,e2p1594,35.0
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 10 10:28:32 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 10 10:21:40 2014
Response via : Initial Calibration



9.3.2

Manual Integration Approval Summary

Sample Number: OP76077-BS1

Method: SW846 8270D

Lab FileID: 2P38165.D

Analyst approved: 07/10/14 11:38 Elwira Antonik

Injection Time: 07/05/14 13:34

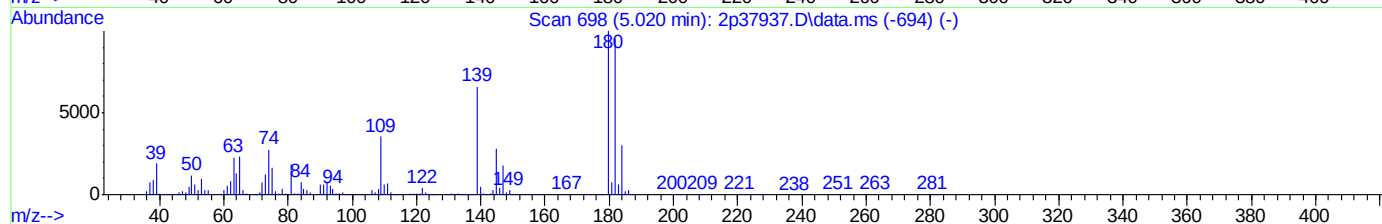
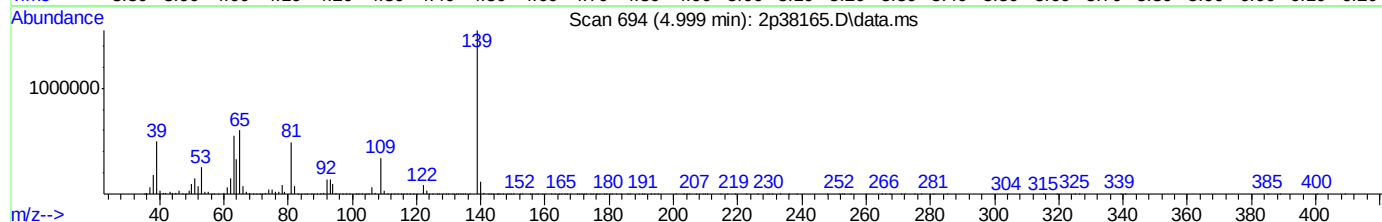
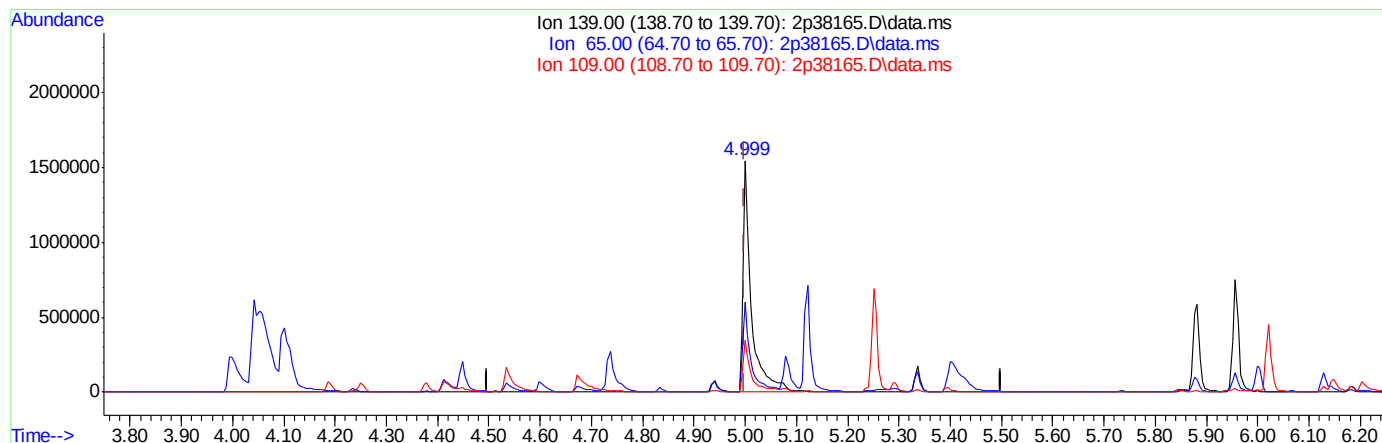
Supervisor approved: 07/11/14 09:21 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
2-Nitrophenol	88-75-5		5.00	Poor instrument integration
4-Nitrophenol	100-02-7		6.98	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1594\
Data File : 2p38165.D
Acq On : 5 Jul 2014 1:34 pm
Operator : andrews1
Sample : op76077-bs1
Misc : op76077,e2p1594,35.0
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 10 10:21:47 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 10 10:21:40 2014
Response via : Initial Calibration



TIC: 2p38165.D\data.ms

(29) 2-Nitrophenol (t)

4.999min (+0.000) 60.71ppb m

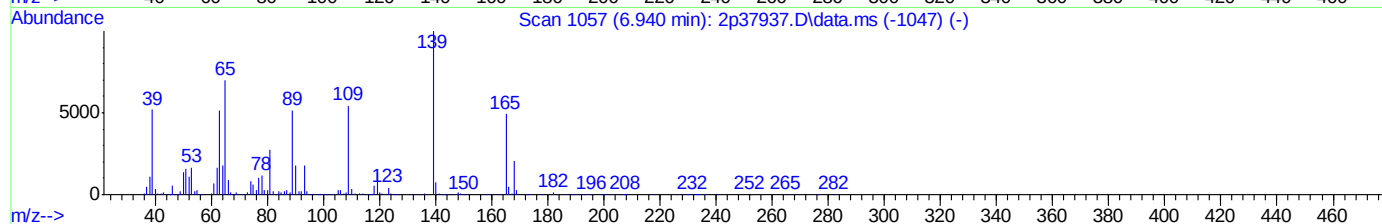
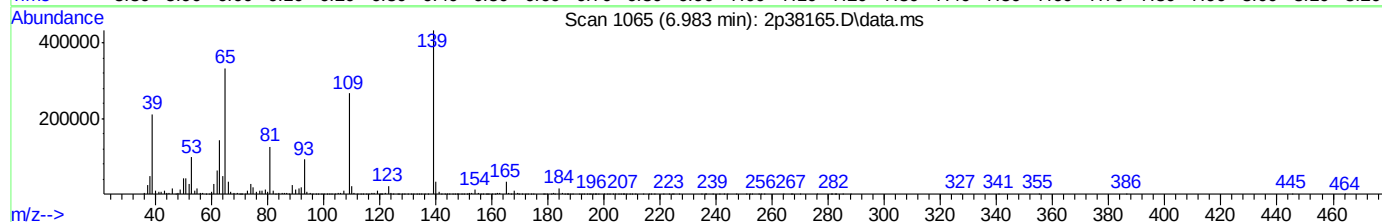
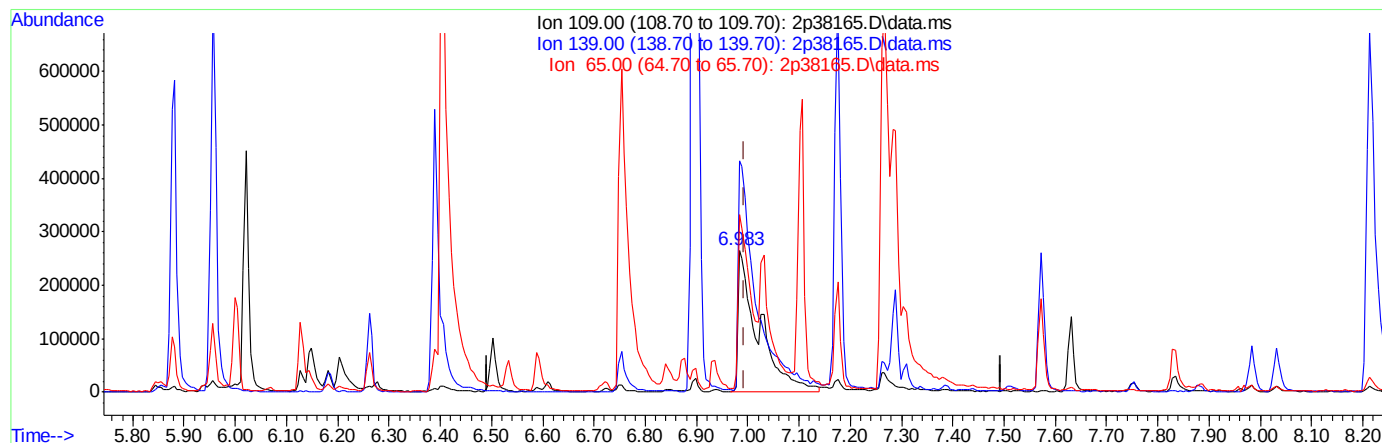
response 1735722

Ion	Exp%	Act%
139.00	100	100
65.00	35.40	39.04
109.00	53.50	22.23#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1594\
Data File : 2p38165.D
Acq On : 5 Jul 2014 1:34 pm
Operator : andrews1
Sample : op76077-bs1
Misc : op76077,e2p1594,35.0
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 10 10:21:47 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 10 10:21:40 2014
Response via : Initial Calibration



TIC: 2p38165.D\data.ms

(61) 4-Nitrophenol (t)

6.983min (-0.010) 60.60ppb m

response 732518

Ion	Exp%	Act%
109.00	100	100
139.00	183.70	163.01
65.00	129.40	125.22
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5726\F36793.D

Vial: 10

Acq On : 6 Jul 2014 5:58 pm

Operator: ashleyd

Sample : op76142-bs1

Inst : MSF

Misc : op76142,ef5726,1000

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Jul 06 18:20:29 2014

Quant Results File: MF5692.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Sat Jul 05 11:45:00 2014

Response via : Initial Calibration

DataAcq Meth : MF5692

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.66	152	154395	40.00	ppb	0.00
24) Naphthalene-d8	5.59	136	661059	40.00	ppb	0.00
47) Acenaphthene-d10	6.99	164	333660	40.00	ppb	0.00
69) Phenanthrene-d10	8.85	188	533998	40.00	ppb	-0.01
83) Chrysene-d12	14.10	240	525599	40.00	ppb	0.00
92) Perylene-d12	17.14	264	464660	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4b	4.66	152	154395	40.00	ppb	0.00
104) Naphthalene-d8b	5.59	136	661059	40.00	ppb	0.00
106) Acenaphthene-d10b	6.99	164	333660	40.00	ppb	0.00
108) Phenanthrene-d10b	8.85	188	533998	40.00	ppb	-0.01
110) Chrysene-d12b	14.10	240	525599	40.00	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol	3.71	112	134420	24.13	ppb	0.00
Spiked Amount 50.000			Recovery =	48.26%		
8) Phenol-d5	4.42	99	123565	17.71	ppb	0.00
Spiked Amount 50.000			Recovery =	35.42%		
25) Nitrobenzene-d5	5.07	82	254376	36.48	ppb	0.00
Spiked Amount 50.000			Recovery =	72.96%		
51) 2-Fluorobiphenyl	6.38	172	451225	38.82	ppb	0.00
Spiked Amount 50.000			Recovery =	77.64%		
73) 2,4,6-Tribromophenol	7.88	330	62396	52.03	ppb	0.00
Spiked Amount 50.000			Recovery =	104.06%		
85) Terphenyl-d14	11.88	244	529092	44.28	ppb	0.00
Spiked Amount 50.000			Recovery =	88.56%		

Target Compounds

						Qvalue
2) 1,4-Dioxane	2.23	88	49688	18.03	ppb	87
3) Pyridine	2.56	79	141659	21.78	ppb	82
4) N-Nitrosodimethylamine	2.52	42	85113	30.63	ppb #	63
6) Indene	4.86	116	398919	39.63	ppb	98
7) Cumene	4.08	105	457163	32.96	ppb	96
9) Phenol	4.43	94	169194	22.10	ppb #	30
10) Aniline	4.43	93	309016	32.96	ppb	70
11) bis(2-Chloroethyl)ether	4.47	93	204885	37.71	ppb	95
12) 2-Chlorophenol	4.52	128	246654	40.73	ppb	86
13) Decane	4.55	43	216996	34.79	ppb	82
14) 1,3-Dichlorobenzene	4.63	146	188799	28.28	ppb	98
15) 1,4-Dichlorobenzene	4.68	146	187346	28.27	ppb	99
16) Benzyl alcohol	4.77	108	140356	34.80	ppb	74
17) 1,2-Dichlorobenzene	4.79	146	186785	29.94	ppb	96
18) Acetophenone	4.96	105	356232	44.98	ppb	97
19) 2-Methylphenol	4.87	108	212959	38.86	ppb	98
20) 2,2'-oxybis(1-Chloropropan	4.86	121	69325	37.68	ppb #	34
21) 3&4-Methylphenol	4.97	108	206053	36.60	ppb	98
22) n-Nitroso-di-n-propylamine	4.96	70	173778	45.34	ppb #	78
23) Hexachloroethane	5.04	201	61317	29.35	ppb	93
26) Nitrobenzene	5.09	77	258454	36.38	ppb	90
27) Quinoline	5.84	129	536467	38.39	ppb	97
28) Isophorone	5.25	82	445490	36.12	ppb	90

(#) = qualifier out of range (m) = manual integration

F36793.D MF5692.M

Mon Jul 07 17:51:10 2014

RT1

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5726\F36793.D

Acq On : 6 Jul 2014 5:58 pm

Sample : op76142-bs1

Misc : op76142,ef5726,1000

MS Integration Params: LSCINT.P

Quant Time: Jul 06 18:20:29 2014

Vial: 10

Operator: ashleyd

Inst : MSF

Multiplr: 1.00

Quant Results File: MF5692.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Sat Jul 05 11:45:00 2014

Response via : Initial Calibration

DataAcq Meth : MF5692

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
29) 2-Nitrophenol	5.32	139	135386	39.84	ppb	89
30) 2,4-Dimethylphenol	5.35	107	263466	40.83	ppb	89
31) Benzoic acid	5.43	105	106131	27.76	ppb	95
32) bis(2-Chloroethoxy)methane	5.41	93	267642	36.90	ppb	97
33) 2,4-Dichlorophenol	5.50	162	208637	39.78	ppb	99
34) 2,6-Dichlorophenol	5.65	162	199551	40.44	ppb	97
36) 1,2,4-Trichlorobenzene	5.55	180	164504	27.37	ppb	98
38) Naphthalene	5.60	128	611550	30.97	ppb	99
39) 4-Chloroaniline	5.64	127	264321	31.12	ppb	95
40) 2,3-Dichloroaniline	6.32	161	253005	37.63	ppb	96
41) Caprolactam	5.89	55	45863	14.72	ppb	90
42) Hexachlorobutadiene	5.69	225	85372	28.00	ppb	98
43) 4-Chloro-3-methylphenol	5.99	107	241470	44.09	ppb	86
44) 2-Methylnaphthalene	6.10	141	364657	31.71	ppb	96
45) 1-Methylnaphthalene	6.18	142	466035	35.14	ppb	97
46) Dimethylnaphthalene	6.60	156	421810	35.73	ppb	95
48) Hexachlorocyclopentadiene	6.22	237	178064	72.73	ppb	99
49) 2,4,6-Trichlorophenol	6.33	196	145968	46.67	ppb	98
50) 2,4,5-Trichlorophenol	6.36	196	159003	49.24	ppb	100
52) 2-Chloronaphthalene	6.49	162	378384	35.62	ppb	94
53) Biphenyl	6.46	154	585036	41.06	ppb	99
54) 2-Nitroaniline	6.57	65	164811	56.15	ppb	81
55) Dimethylphthalate	6.72	163	499453	45.56	ppb	99
56) Acenaphthylene	6.85	152	564227	33.29	ppb	98
57) 2,6-Dinitrotoluene	6.78	165	113962	46.68	ppb	86
58) 3-Nitroaniline	6.95	138	121387	40.83	ppb	98
59) Acenaphthene	7.02	153	428109	39.90	ppb	95
60) 2,4-Dinitrophenol	7.05	184	165916	117.21	ppb	# 18
61) 4-Nitrophenol	7.14	109	53771	38.88	ppb	# 48
62) Dibenzofuran	7.20	168	566368	38.16	ppb	94
63) 2,4-Dinitrotoluene	7.18	165	156740	48.53	ppb	83
64) 2,3,4,6-Tetrachlorophenol	7.34	232	124699	50.19	ppb	92
65) Diethylphthalate	7.44	149	520594	47.85	ppb	99
66) Fluorene	7.58	166	491853	41.67	ppb	98
67) 4-Chlorophenyl-phenylether	7.57	204	224658	42.83	ppb	89
68) 4-Nitroaniline	7.61	138	129489	43.23	ppb	77
70) 4,6-Dinitro-2-methylphenol	7.65	198	105723	54.09	ppb	84
71) n-Nitrosodiphenylamine	7.71	169	347893	45.27	ppb	99
72) 1,2-Diphenylhydrazine	7.76	77	569918	47.82	ppb	94
74) 4-Bromophenyl-phenylether	8.20	248	129073	44.77	ppb	94
75) Hexachlorobenzene	8.29	284	133546	41.78	ppb	90
76) Pentachlorophenol	8.59	266	96663	55.95	ppb	97
77) Phenanthrene	8.88	178	705803	42.69	ppb	99
78) Anthracene	8.96	178	717010	43.73	ppb	99
79) Carbazole	9.24	167	679645	43.27	ppb	98
80) Di-n-butylphthalate	9.93	149	882127	52.35	ppb	99
81) Fluoranthene	11.02	202	771579	46.00	ppb	95
82) Octadecane	8.74	57	428529	56.37	ppb	92
84) Pyrene	11.46	202	796952	42.43	ppb	95

(#)=qualifier out of range (m)=manual integration

F36793.D MF5692.M

Mon Jul 07 17:51:10 2014

RT1

Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5726\F36793.D Vial: 10
 Acq On : 6 Jul 2014 5:58 pm Operator: ashleyd
 Sample : op76142-bs1 Inst : MSF
 Misc : op76142,ef5726,1000 Multiplr: 1.00
 MS Integration Params: LSCINT.P
 Quant Time: Jul 06 18:20:29 2014 Quant Results File: MF5692.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)
 Title : Semi Volatile Extractables by GC/MS
 Last Update : Sat Jul 05 11:45:00 2014
 Response via : Initial Calibration
 DataAcq Meth : MF5692

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
86) Butylbenzylphthalate	13.04	149	403556	53.40	ppb	94
88) Benzo[a]anthracene	14.08	228	690054	41.36	ppb	100
89) 3,3'-Dichlorobenzidine	14.11	252	399809	74.84	ppb	98
90) Chrysene	14.15	228	682299	42.57	ppb	99
91) bis(2-Ethylhexyl)phthalate	14.44	149	610047	60.90	ppb	97
93) Di-n-octylphthalate	15.88	149	941516	52.12	ppb	96
94) Benzo[b]fluoranthene	16.39	252	749047	41.35	ppb	99
95) Benzo[k]fluoranthene	16.45	252	720348	40.41	ppb	99
96) Benzo[a]pyrene	17.02	252	655653	42.84	ppb	99
97) Indeno[1,2,3-cd]pyrene	19.08	276	604567	44.51	ppb	94
99) Dibenz[a,h]anthracene	19.14	278	632973	45.26	ppb	98
100) 7,12-Dimethylbenz(a)anthra	16.41	256	363010	44.15	ppb	99
101) Benzo[g,h,i]perylene	19.52	276	644273	44.56	ppb	97
103) Benzaldehyde	4.34	105	175212	46.19	ppb	96
107) 1,2,4,5-Tetrachlorobenzene	6.23	216	173383	36.84	ppb	99
109) Atrazine	8.45	200	157148	60.26	ppb	100
111) Benzidine	11.35	184	518911	84.99	ppb	99

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 F36793.D MF5692.M Mon Jul 07 17:51:10 2014 RT1

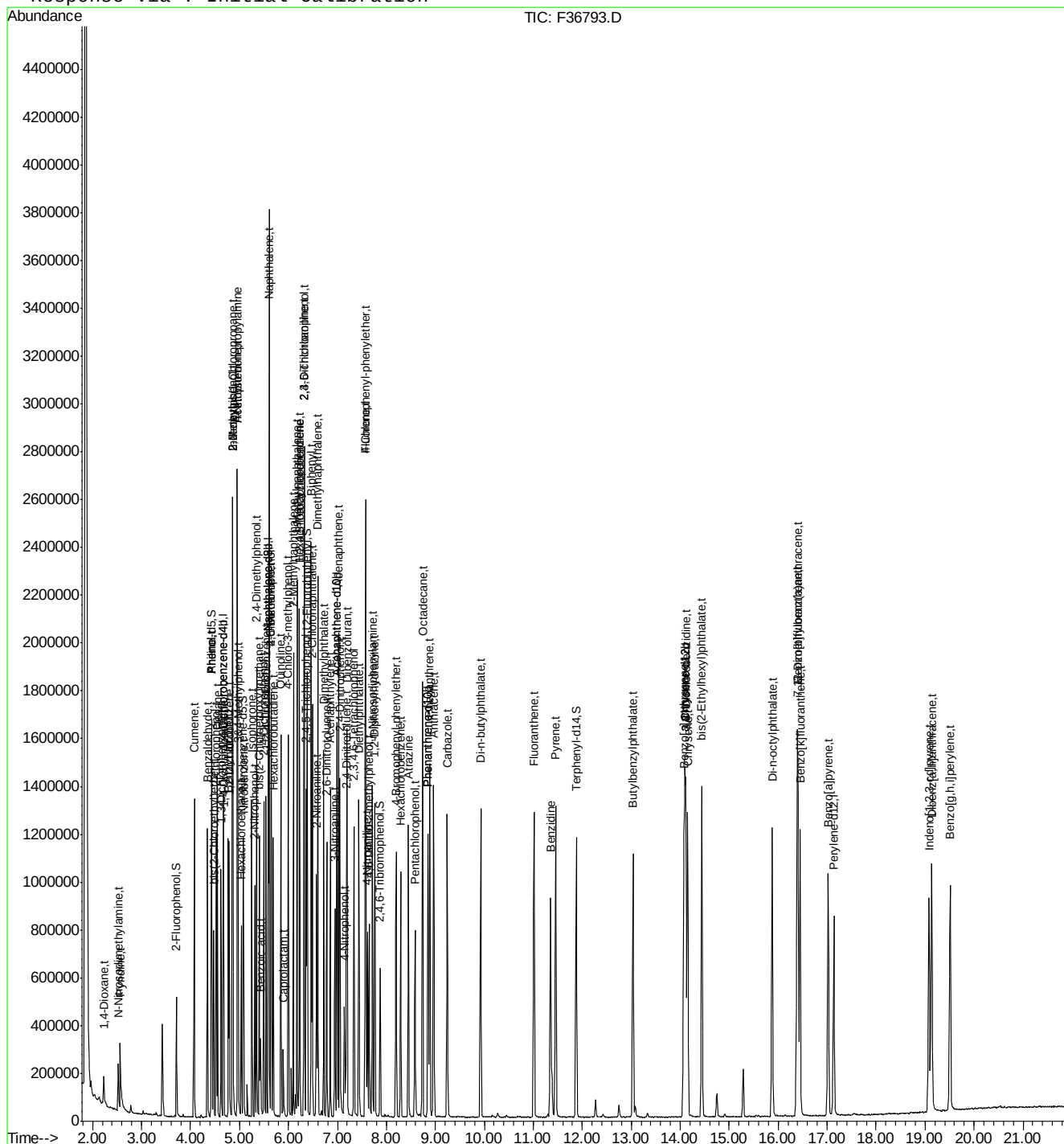
Quantitation Report (QT Reviewed)

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Data File : C:\MSDCHEM\1\DATA\EF5726\F36793.D
Acq On    : 6 Jul 2014    5:58 pm
Sample    : op76142-bs1
Misc      : op76142,ef5726,1000
MS Integration Params: LSCINT.P
Quant Time: Jul 7 17:51 2014
```

Vial: 10
Operator: ashleyd
Inst : MSF
Multiplr: 1.00

Quant Results File: MF5692.RES

Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sat Jul 05 11:45:00 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1594\
 Data File : 2p38184.D
 Acq On : 5 Jul 2014 9:50 pm
 Operator : andrews1
 Sample : op76077-ms
 Misc : op76077,e2p1594,33.5
 ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 10 21:31:32 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Wed Jul 02 14:21:35 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.245	152	1338138	40.00	ppb	-0.02
24) Naphthalene-d8	5.298	136	4625277	40.00	ppb	-0.02
47) Acenaphthene-d10	6.732	164	2584386	40.00	ppb	-0.02
69) Phenanthrene-d10	7.973	188	4265512	40.00	ppb	-0.02
83) Chrysene-d12	11.118	240	3944098	40.00	ppb	0.00
92) Perylene-d12	13.113	264	2852528	40.00	ppb	0.01
102) 1,4-Dichlorobenzene-d4a	4.245	152	1338138	40.00	ppb	-0.02
104) Acenaphthene-d10a	6.732	164	2584386	40.00	ppb	-0.02
107) Chrysene-d12a	11.118	240	3944098	40.00	ppb	-0.08
109) Naphthalene-d8a	5.298	136	4625277	40.00	ppb	-0.02

System Monitoring Compounds

5) 2-Fluorophenol	3.196	112	1976179	49.67	ppb	0.03
Spiked Amount	50.000	Range	11 - 58	Recovery	=	99.34%#
8) Phenol-d5	4.052	99	2179096	48.46	ppb	0.03
Spiked Amount	50.000	Range	10 - 59	Recovery	=	96.92%#
25) Nitrobenzene-d5	4.726	82	1954152	51.34	ppb	-0.02
Spiked Amount	50.000	Range	19 - 61	Recovery	=	102.68%#
51) 2-Fluorobiphenyl	6.192	172	3826599	48.76	ppb	-0.02
Spiked Amount	50.000	Range	21 - 58	Recovery	=	97.52%#
73) 2,4,6-Tribromophenol	7.400	330	667388	55.18	ppb	-0.01
Spiked Amount	50.000	Range	12 - 68	Recovery	=	110.36%#
85) Terphenyl-d14	9.711	244	4179372	52.94	ppb	-0.02
Spiked Amount	50.000	Range	16 - 65	Recovery	=	105.88%#

Target Compounds

						Qvalue
2) 1,4-Dioxane	1.463	88	629544	34.58	ppb	98
3) Pyridine	1.763	79	1669403	38.40	ppb	95
4) N-Nitrosodimethylamine	1.736	74	939457	35.99	ppb	71
6) Indene	4.453	116	3859997	56.89	ppb	99
7) Cumene	3.549	105	5414129	56.14	ppb	99
9) Phenol	4.063	94	2924086	56.60	ppb	90
10) Aniline	3.993	93	1866174	35.24	ppb	92
11) bis(2-Chloroethyl)ether	4.041	93	2060356	57.68	ppb	95
12) 2-Chlorophenol	4.106	128	2518820	57.60	ppb	96
13) Decane	4.122	57	1718687	51.75	ppb	99
14) 1,3-Dichlorobenzene	4.197	146	2524316	50.16	ppb	99
15) 1,4-Dichlorobenzene	4.255	146	2522034	48.94	ppb	100
16) Benzyl alcohol	4.410	108	1188708	50.72	ppb	88
17) 1,2-Dichlorobenzene	4.384	146	2535175	53.76	ppb	99
18) Acetophenone	4.603	105	2955610	52.67	ppb	96
19) 2-Methylphenol	4.539	108	2089642	55.87	ppb	99
20) 2,2'-oxybis(1-Chloropr...	4.491	121	506288	52.67	ppb	95
21) 3&4-Methylphenol	4.678	108	2115569	53.32	ppb	100
22) n-Nitroso-di-n-propyla...	4.608	70	1282606	51.87	ppb	96
23) Hexachloroethane	4.646	201	700465	36.76	ppb	90
26) Nitrobenzene	4.737	77	2105120	52.75	ppb	97
27) Quinoline	5.609	129	4601818	56.62	ppb	99
28) Isophorone	4.940	82	3477271	53.68	ppb	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1594\
 Data File : 2p38184.D
 Acq On : 5 Jul 2014 9:50 pm
 Operator : andrews1
 Sample : op76077-ms
 Misc : op76077,e2p1594,33.5
 ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 10 21:31:32 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Wed Jul 02 14:21:35 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
29) 2-Nitrophenol	5.004	139	1225688	56.80	ppb	# 72
30) 2,4-Dimethylphenol	5.084	107	2262125	69.81	ppb	100
31) Benzoic acid	5.250	105	695190m	23.46	ppb	
32) bis(2-Chloroethoxy)met...	5.122	93	2216910	56.63	ppb	99
33) 2,4-Dichlorophenol	5.245	162	2029080	62.80	ppb	98
34) 2,6-Dichlorophenol	5.400	162	1947623	60.91	ppb	99
36) 1,2,4-Trichlorobenzene	5.261	180	2027007	52.20	ppb	100
38) Naphthalene	5.314	128	5776368	54.26	ppb	99
39) 4-Chloroaniline	5.400	127	1749010	36.19	ppb	97
40) 2,3-Dichloroaniline	6.133	161	2275635	52.83	ppb	94
41) Caprolactam	5.721	113	578547	56.65	ppb	96
42) Hexachlorobutadiene	5.416	225	1137118	51.30	ppb	99
43) 4-Chloro-3-methylphenol	5.855	107	1870273	59.40	ppb	97
44) 2-Methylnaphthalene	5.887	141	3241986	48.20	ppb	97
45) 1-Methylnaphthalene	5.967	141	3694911	52.70	ppb	98
46) Dimethylnaphthalene	6.400	156	3647814	55.71	ppb	99
48) Hexachlorocyclopentadiene	6.010	237	256460	17.81	ppb	98
49) 2,4,6-Trichlorophenol	6.154	196	1403277	62.41	ppb	99
50) 2,4,5-Trichlorophenol	6.213	196	1530530m	57.48	ppb	
52) 2-Chloronaphthalene	6.288	162	3528344	49.46	ppb	97
53) Biphenyl	6.272	154	4945624	55.26	ppb	99
54) 2-Nitroaniline	6.406	65	943424	47.98	ppb	89
55) Dimethylphthalate	6.539	163	4233688	52.60	ppb	99
56) Acenaphthylene	6.619	152	5172059	45.71	ppb	100
57) 2,6-Dinitrotoluene	6.598	165	856184	47.79	ppb	100
58) 3-Nitroaniline	6.753	138	925136	44.31	ppb	95
59) Acenaphthene	6.759	153	3813809	53.14	ppb	95
60) 2,4-Dinitrophenol	6.876	184	108575	16.64	ppb	# 53
61) 4-Nitrophenol	6.999	109	574548m	67.51	ppb	
62) Dibenzofuran	6.903	168	5012739	50.71	ppb	99
63) 2,4-Dinitrotoluene	6.940	165	1036774	43.72	ppb	92
64) 2,3,4,6-Tetrachlorophenol	7.042	232	1213292m	58.17	ppb	
65) Diethylphthalate	7.112	149	4220288	52.33	ppb	98
66) Fluorene	7.186	166	4029973	51.94	ppb	99
67) 4-Chlorophenyl-phenyle...	7.186	204	1910598	52.69	ppb	93
68) 4-Nitroaniline	7.267	138	995222	48.90	ppb	95
70) 4,6-Dinitro-2-methylph...	7.288	198	140950	10.75	ppb	95
71) n-Nitrosodiphenylamine	7.293	169	2810547	55.37	ppb	99
72) 1,2-Diphenylhydrazine	7.315	77	3941831	55.09	ppb	94
74) 4-Bromophenyl-phenylether	7.582	248	1241856	55.18	ppb	97
75) Hexachlorobenzene	7.646	284	1462105	51.93	ppb	99
76) Pentachlorophenol	7.850	266	747597	52.60	ppb	99
77) Phenanthrene	7.994	178	5410006	52.35	ppb	100
78) Anthracene	8.042	178	5761312	54.55	ppb	99
79) Carbazole	8.224	167	5477518	51.80	ppb	99
80) Di-n-butylphthalate	8.561	149	7490444	59.99	ppb	100
81) Fluoranthene	9.230	202	6594018	54.14	ppb	98
82) Octadecane	7.892	43	1496085	60.57	ppb	97
84) Pyrene	9.492	202	6431108	53.57	ppb	100
86) Butylbenzylphthalate	10.385	149	3018076	55.84	ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1594\
Data File : 2p38184.D
Acq On : 5 Jul 2014 9:50 pm
Operator : andrews1
Sample : op76077-ms
Misc : op76077,e2p1594,33.5
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 10 21:31:32 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 02 14:21:35 2014
Response via : Initial Calibration

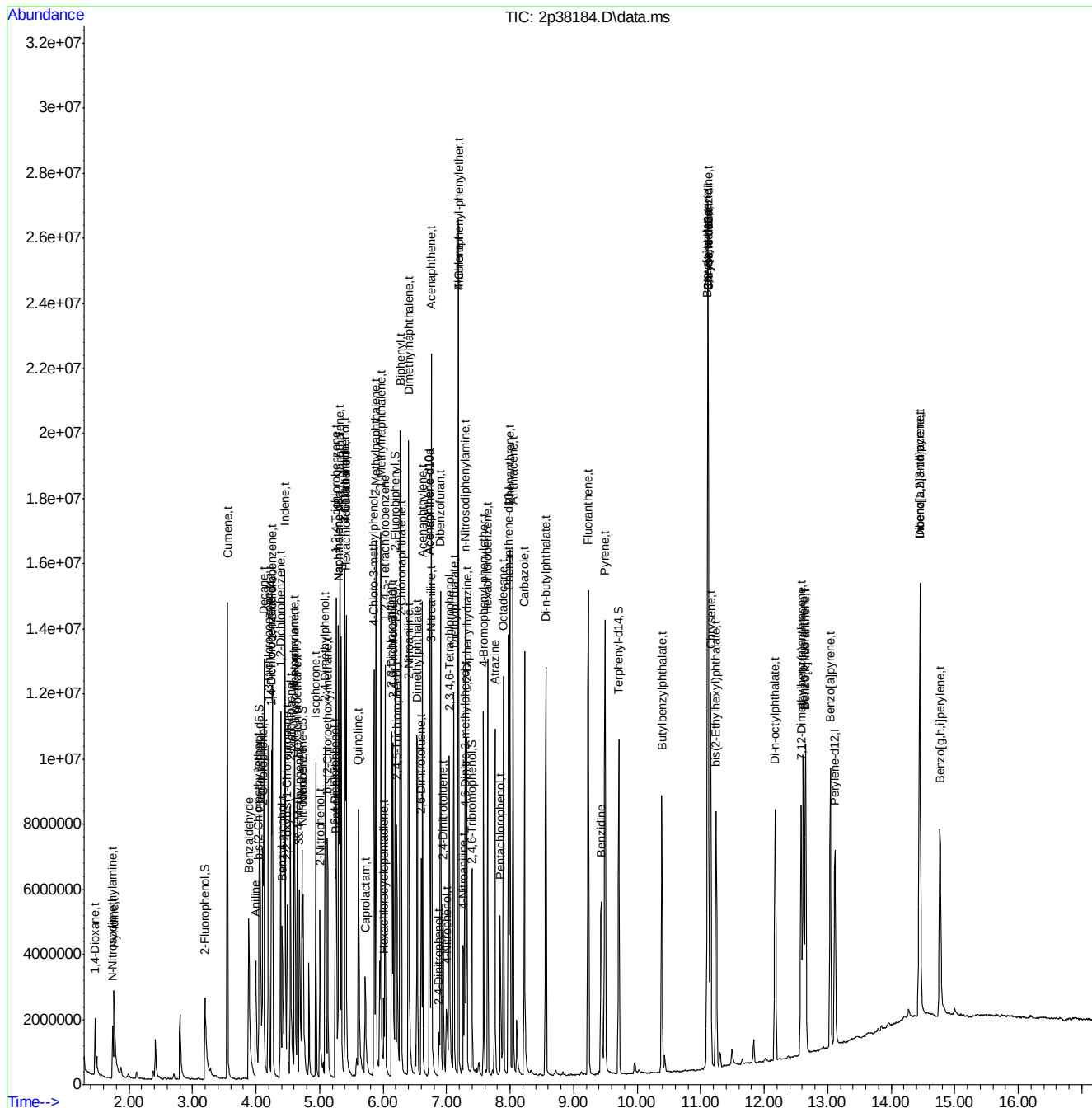
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
88) Benzo[a]anthracene	11.107	228	5591487	50.28	ppb	99
89) 3,3'-Dichlorobenzidine	11.118	252	4045231m	100.08	ppb	
90) Chrysene	11.155	228	5132484	52.36	ppb	100
91) bis(2-Ethylhexyl)phtha...	11.241	149	3946788	55.33	ppb	99
93) Di-n-octylphthalate	12.171	149	6368608m	69.43	ppb	
94) Benzo[b]fluoranthene	12.615	252	4861027	58.20	ppb	98
95) Benzo[k]fluoranthene	12.653	252	4728651	60.64	ppb	97
96) Benzo[a]pyrene	13.038	252	4305914	59.00	ppb	98
97) Indeno[1,2,3-cd]pyrene	14.450	276	4743146	52.64	ppb	98
99) Dibenz[a,h]anthracene	14.450	278	3937174	55.60	ppb	96
100) 7,12-Dimethylbenz(a)an...	12.583	256	2251737	64.57	ppb	98
101) Benzo[g,h,i]perylene	14.765	276	3594856	48.18	ppb	94
103) Benzaldehyde	3.886	105	1730417	51.86	ppb	99
105) Atrazine	7.759	215	561576	55.30	ppb	95
106) 1,2,4,5-Tetrachloroben...	6.031	216	2047581	46.13	ppb	99
108) Benzidine	9.433	184	3270415m	55.89	ppb	

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1594\
Data File : 2p38184.D
Acq On : 5 Jul 2014 9:50 pm
Operator : andrews1
Sample : op76077-ms
Misc : op76077,e2p1594,33.5
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 10 21:31:32 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 02 14:21:35 2014
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: OP76077-MS

Method: SW846 8270D

Lab FileID: 2P38184.D

Analyst approved: 07/10/14 21:36 Andrew Lee Smith

Injection Time: 07/05/14 21:50

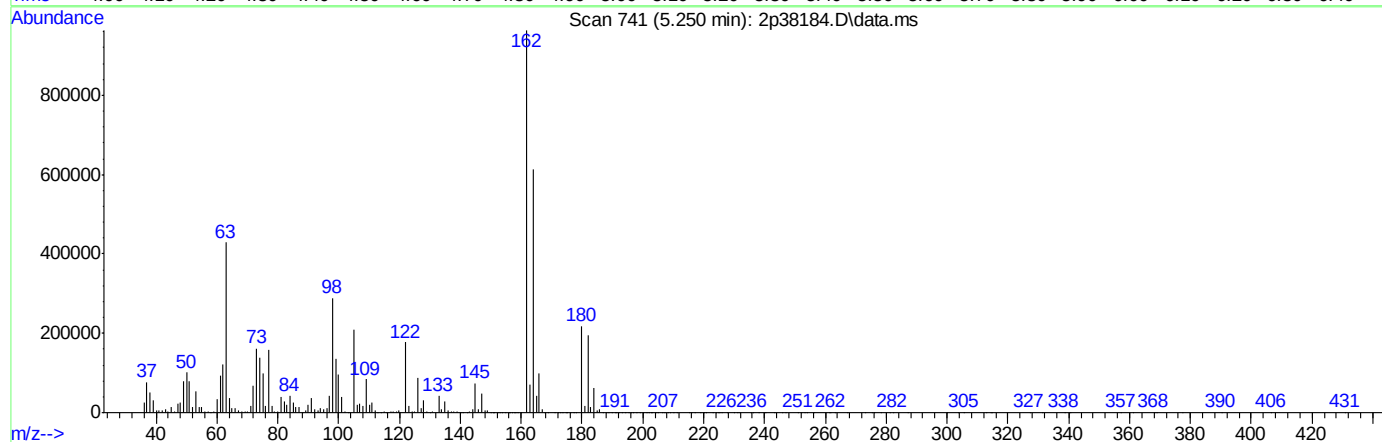
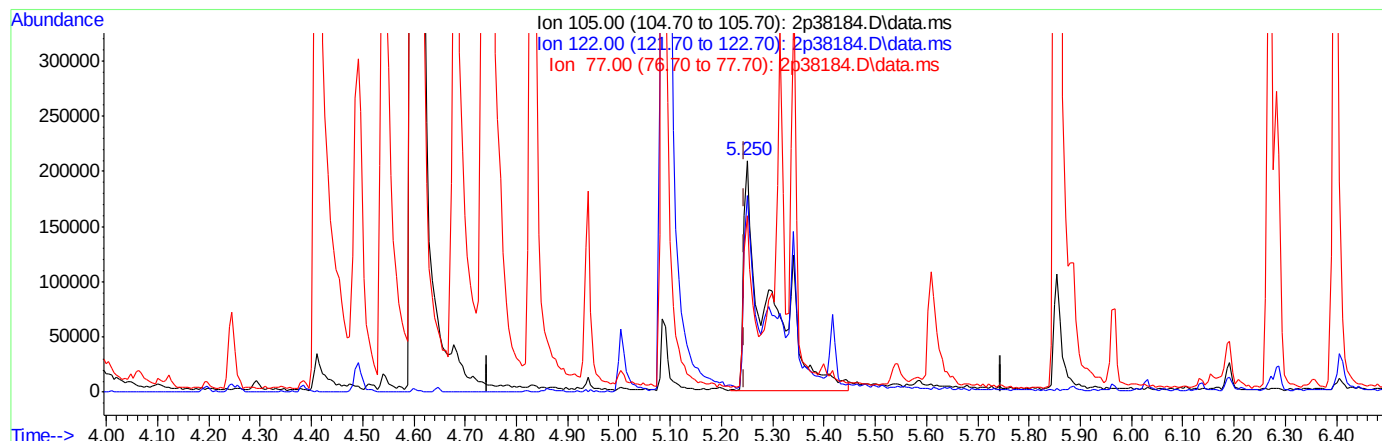
Supervisor approved: 07/14/14 15:34 Cheng-Hwan Ao

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic acid	65-85-0		5.25	Poor instrument integration
2,4,5-Trichlorophenol	95-95-4		6.21	Poor instrument integration
4-Nitrophenol	100-02-7		7.00	Poor instrument integration
2,3,4,6-Tetrachlorophenol	58-90-2		7.04	Poor instrument integration
Benzidine	92-87-5		9.43	Poor instrument integration
3,3'-Dichlorobenzidine	91-94-1		11.12	Poor instrument integration
Di-n-octyl phthalate	117-84-0		12.17	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1594\
Data File : 2p38184.D
Acq On : 5 Jul 2014 9:50 pm
Operator : andrews1
Sample : op76077-ms
Misc : op76077,e2p1594,33.5
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 07 13:07:19 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 02 14:21:35 2014
Response via : Initial Calibration



(31) Benzoic acid (t)

5.250min (+0.005) 23.46ppb m

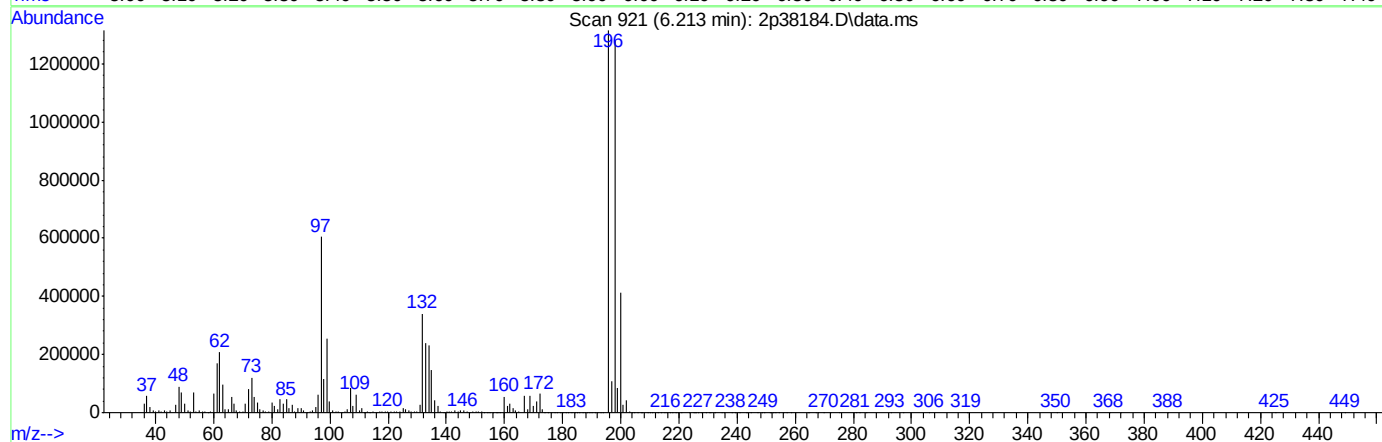
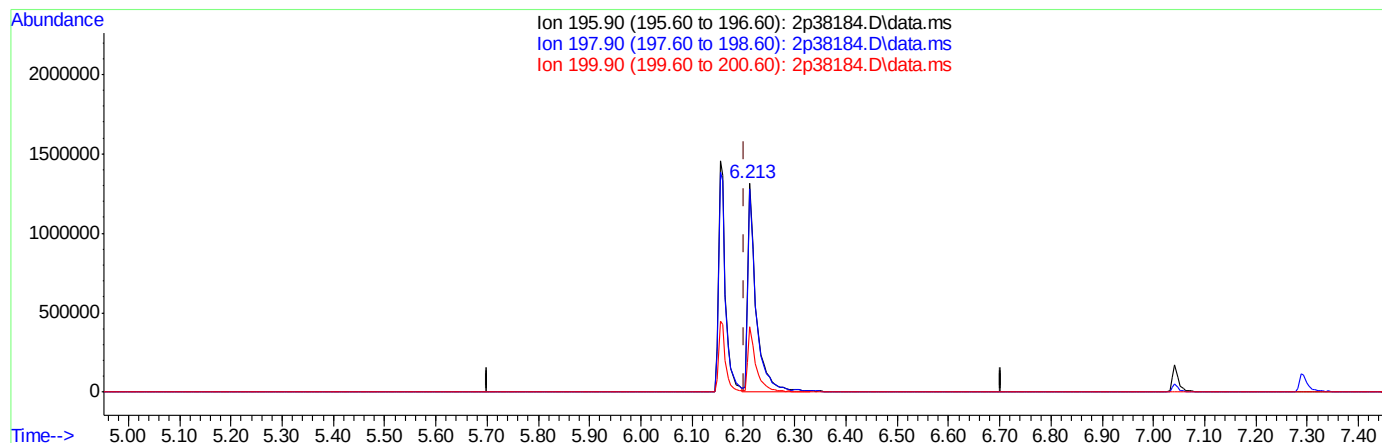
response 695190

Ion	Exp%	Act%
105.00	100	100
122.00	78.20	84.81
77.00	69.40	76.03
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1594\
Data File : 2p38184.D
Acq On : 5 Jul 2014 9:50 pm
Operator : andrews1
Sample : op76077-ms
Misc : op76077,e2p1594,33.5
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 07 13:07:19 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 02 14:21:35 2014
Response via : Initial Calibration



TIC: 2p38184.D\data.ms

(50) 2,4,5-Trichlorophenol (t)

6.213min (+0.011) 57.48ppb m

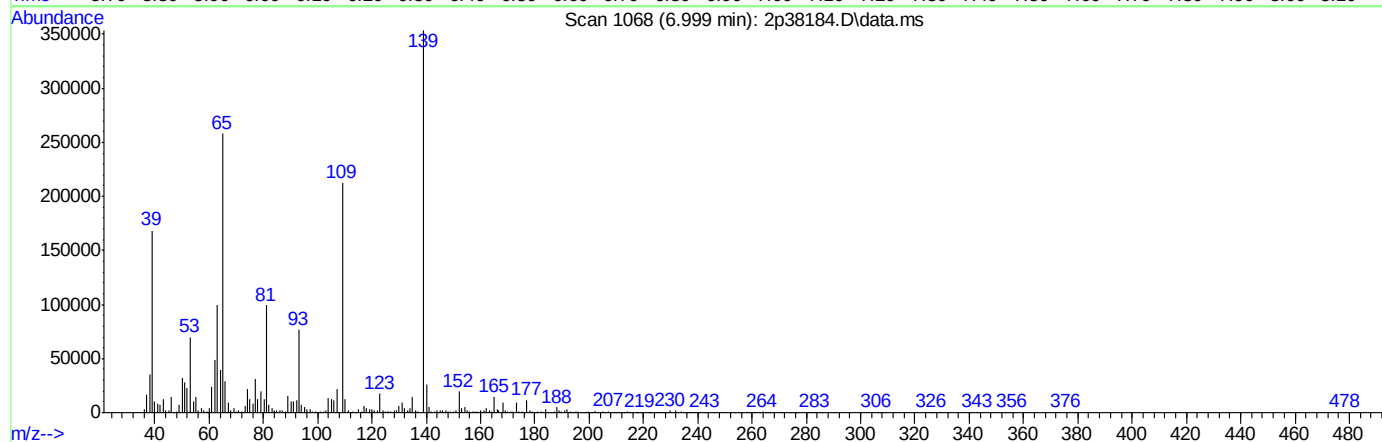
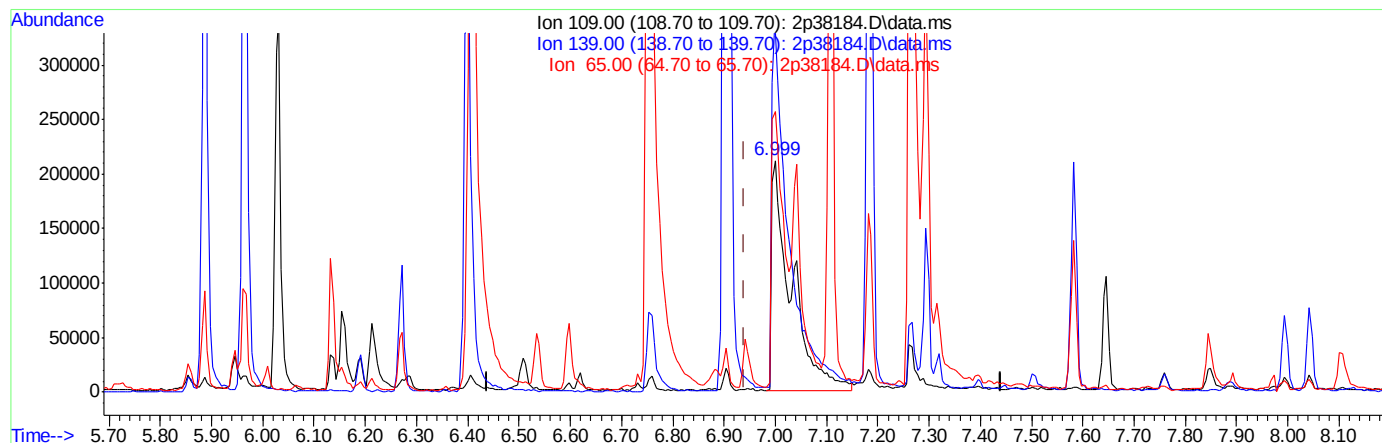
response 1530530

Ion	Exp%	Act%
195.90	100	100
197.90	96.70	97.51
199.90	30.00	31.42
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1594\
Data File : 2p38184.D
Acq On : 5 Jul 2014 9:50 pm
Operator : andrews1
Sample : op76077-ms
Misc : op76077,e2p1594,33.5
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 07 13:07:19 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 02 14:21:35 2014
Response via : Initial Calibration



(61) 4-Nitrophenol (t)

6.999min (+0.059) 67.51ppb m

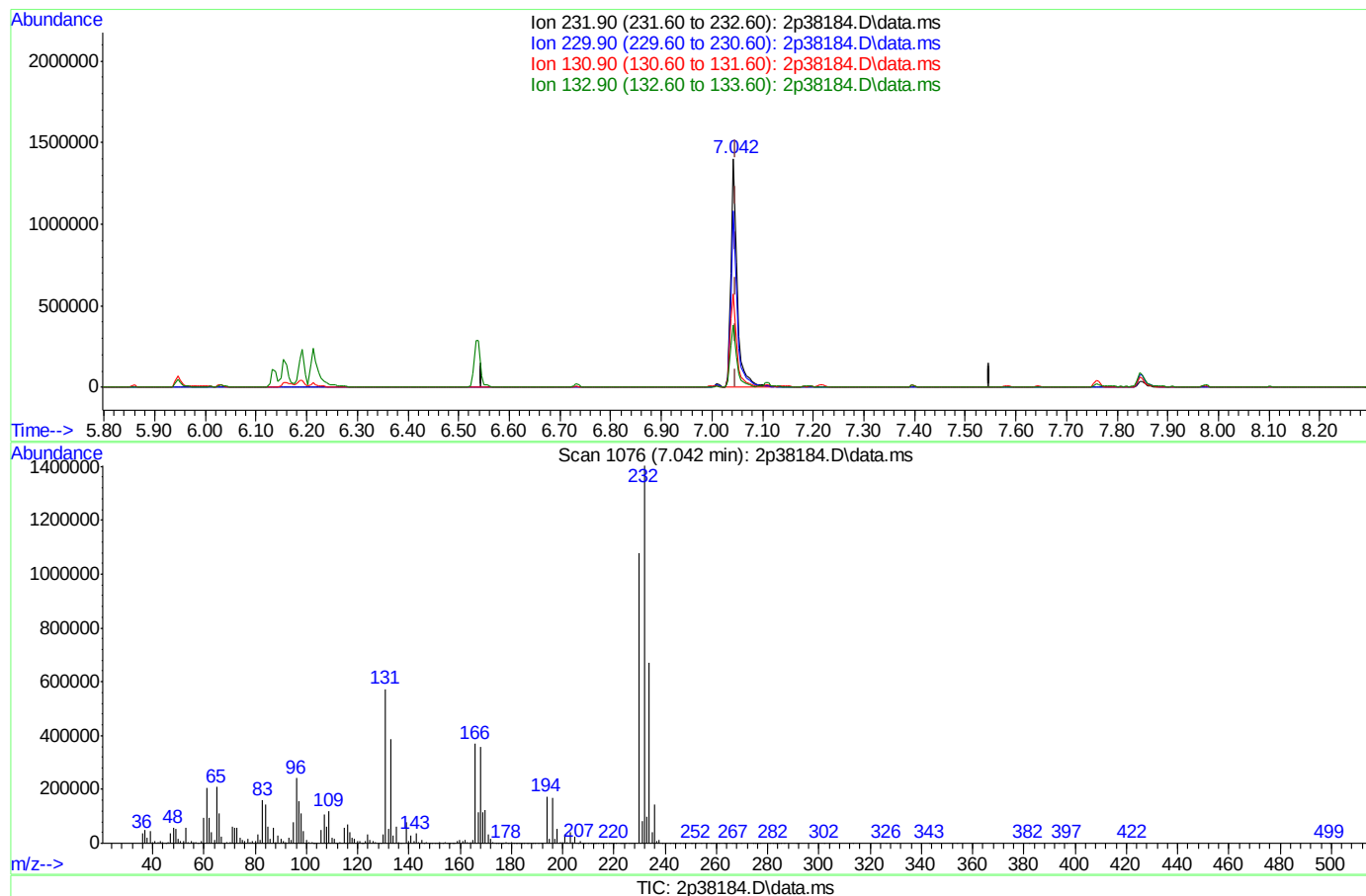
response 574548

Ion	Exp%	Act%
109.00	100	100
139.00	183.70	166.39
65.00	129.40	121.36
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1594\
Data File : 2p38184.D
Acq On : 5 Jul 2014 9:50 pm
Operator : andrews1
Sample : op76077-ms
Misc : op76077,e2p1594,33.5
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 07 13:07:19 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 02 14:21:35 2014
Response via : Initial Calibration



(64) 2,3,4,6-Tetrachlorophenol

7.042min (-0.005) 58.17ppb m

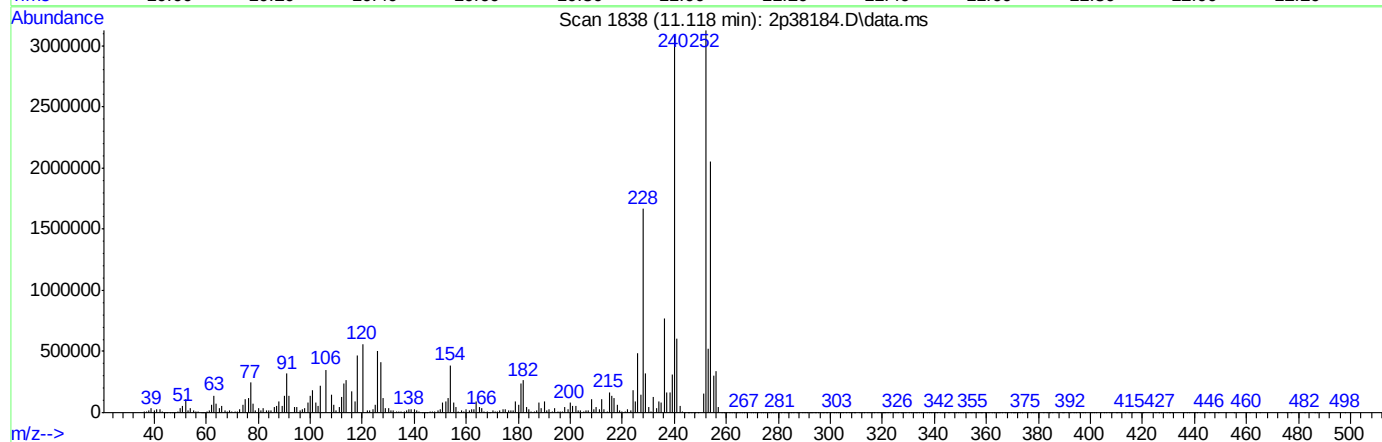
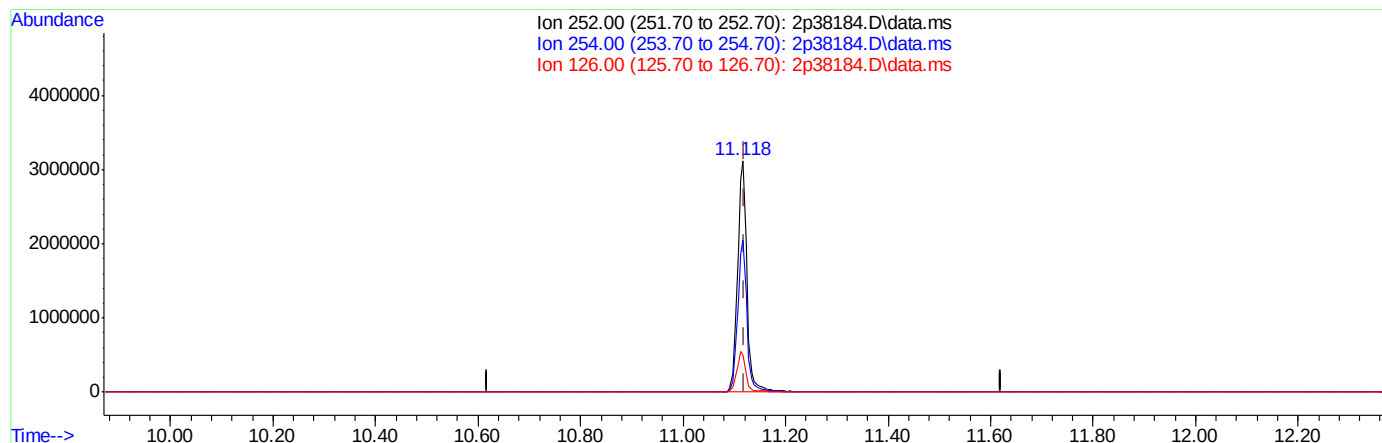
response 1213292

Ion	Exp%	Act%
231.90	100	100
229.90	78.60	76.97
130.90	40.40	40.81
132.90	27.70	27.47

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1594\
Data File : 2p38184.D
Acq On : 5 Jul 2014 9:50 pm
Operator : andrews1
Sample : op76077-ms
Misc : op76077,e2p1594,33.5
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 07 13:07:19 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 02 14:21:35 2014
Response via : Initial Calibration



(89) 3,3'-Dichlorobenzidine (t)

11.118min (-0.002) 100.08ppb m

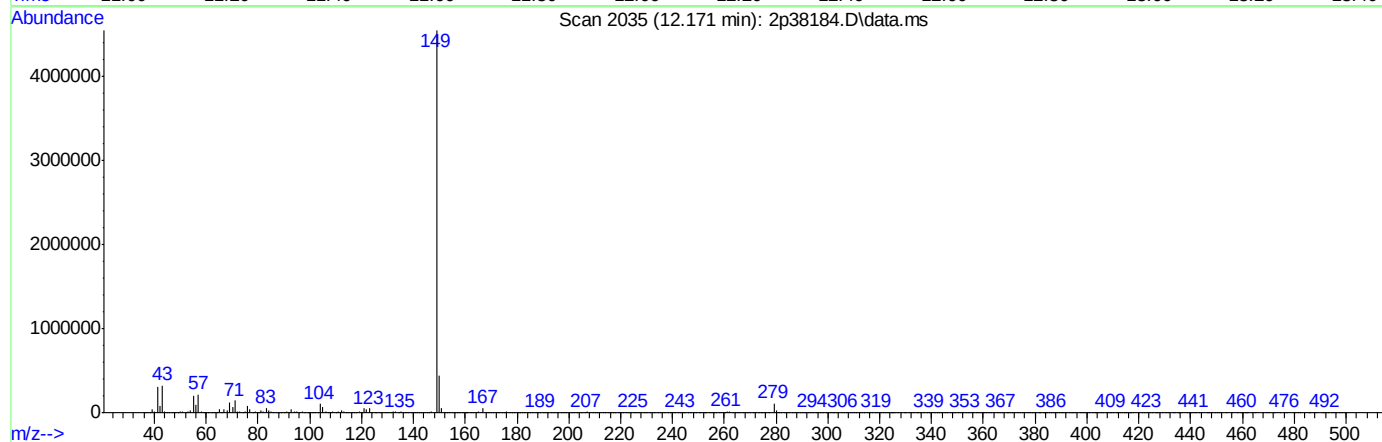
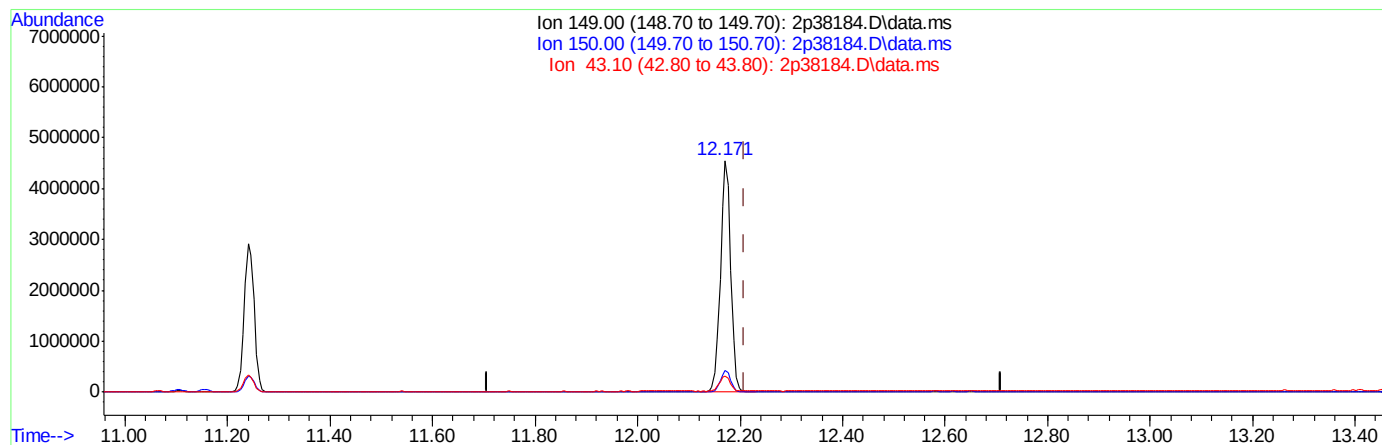
response 4045231

Ion	Exp%	Act%
252.00	100	100
254.00	2.30	65.58#
126.00	24.70	16.29
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1594\
Data File : 2p38184.D
Acq On : 5 Jul 2014 9:50 pm
Operator : andrews1
Sample : op76077-ms
Misc : op76077,e2p1594,33.5
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 07 13:07:19 2014
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QLast Update : Wed Jul 02 14:21:35 2014
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(93) Di-n-octylphthalate (t)

12.171min (-0.037) 69.43ppb m

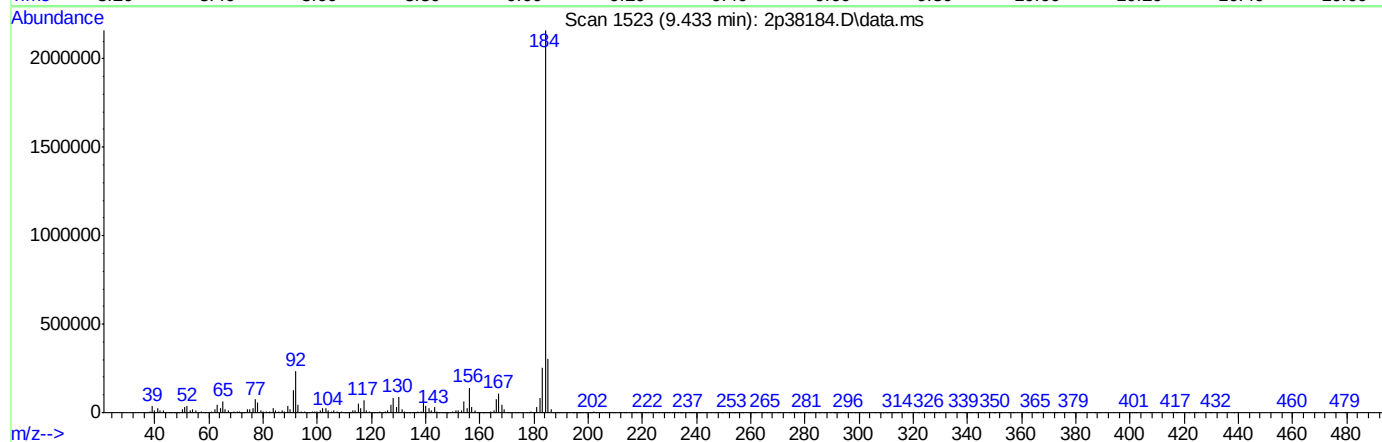
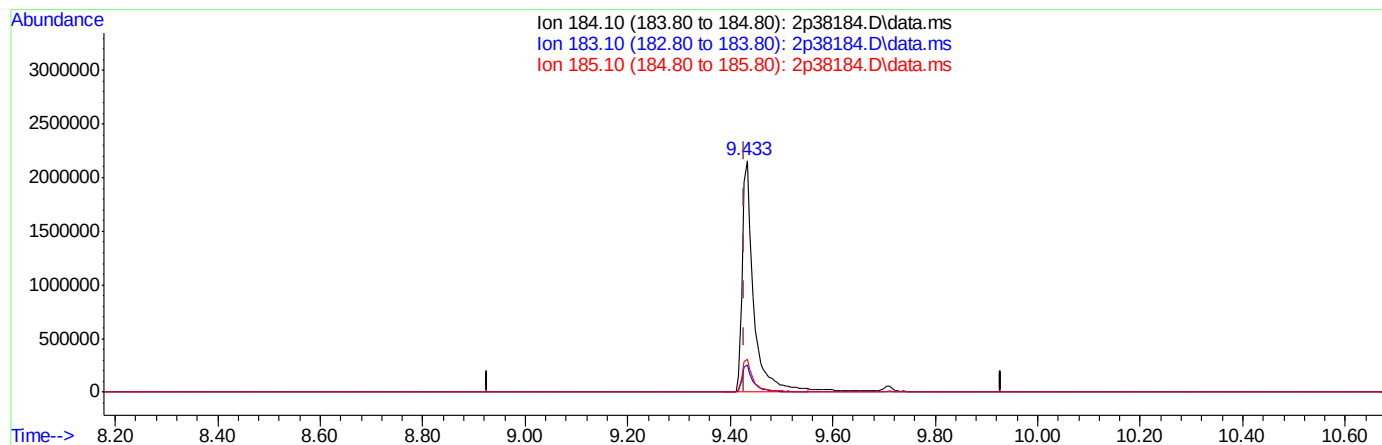
response 6368608

Ion	Exp%	Act%
149.00	100	100
150.00	9.60	9.57
43.10	6.60	7.06
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1594\
Data File : 2p38184.D
Acq On : 5 Jul 2014 9:50 pm
Operator : andrews1
Sample : op76077-ms
Misc : op76077,e2p1594,33.5
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 07 13:07:19 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 02 14:21:35 2014
Response via : Initial Calibration



TIC: 2p38184.D\data.ms

(108) Benzidine

9.433min (+0.005) 55.89ppb m

response 3270415

Ion	Exp%	Act%
184.10	100	100
183.10	11.70	11.79
185.10	14.50	14.19
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1594\
 Data File : 2p38185.D
 Acq On : 5 Jul 2014 10:12 pm
 Operator : andrews1
 Sample : op76077-msd
 Misc : op76077,e2p1594,33.5
 ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jul 10 21:32:49 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Wed Jul 09 10:31:08 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.245	152	1330955	40.00	ppb	0.04
24) Naphthalene-d8	5.298	136	4511887	40.00	ppb	0.04
47) Acenaphthene-d10	6.732	164	2556601	40.00	ppb	0.04
69) Phenanthrene-d10	7.973	188	4203659	40.00	ppb	0.04
83) Chrysene-d12	11.118	240	3903288	40.00	ppb	0.07
92) Perylene-d12	13.113	264	2867666	40.00	ppb	0.08
102) 1,4-Dichlorobenzene-d4a	4.245	152	1330955	40.00	ppb	0.04
104) Acenaphthene-d10a	6.732	164	2556601	40.00	ppb	0.04
107) Chrysene-d12a	11.118	240	3903288	40.00	ppb	0.07
109) Naphthalene-d8a	5.298	136	4511887	40.00	ppb	0.04

System Monitoring Compounds

5) 2-Fluorophenol	3.196	112	2023183	51.13	ppb	0.04
Spiked Amount	50.000	Range	11 - 58	Recovery	=	102.26%#
8) Phenol-d5	4.052	99	2185940	48.87	ppb	0.04
Spiked Amount	50.000	Range	10 - 59	Recovery	=	97.74%#
25) Nitrobenzene-d5	4.726	82	1948279	52.47	ppb	0.04
Spiked Amount	50.000	Range	19 - 61	Recovery	=	104.94%#
51) 2-Fluorobiphenyl	6.191	172	3793531	48.86	ppb	0.04
Spiked Amount	50.000	Range	21 - 58	Recovery	=	97.72%#
73) 2,4,6-Tribromophenol	7.395	330	669464	56.17	ppb	0.04
Spiked Amount	50.000	Range	12 - 68	Recovery	=	112.34%#
85) Terphenyl-d14	9.711	244	4264090	54.58	ppb	0.06
Spiked Amount	50.000	Range	16 - 65	Recovery	=	109.16%#

Target Compounds

						Qvalue
2) 1,4-Dioxane	1.463	88	618084	34.13	ppb	97
3) Pyridine	1.763	79	1662232	38.44	ppb	95
4) N-Nitrosodimethylamine	1.736	74	971373	37.35	ppb	67
6) Indene	4.453	116	3876030	57.43	ppb	100
7) Cumene	3.549	105	5469871	57.02	ppb	99
9) Phenol	4.063	94	2915325	56.74	ppb	90
10) Aniline	3.993	93	1354444	25.71	ppb	92
11) bis(2-Chloroethyl)ether	4.041	93	1996495	56.20	ppb	96
12) 2-Chlorophenol	4.105	128	2502944	57.55	ppb	95
13) Decane	4.121	57	1729170	52.35	ppb	99
14) 1,3-Dichlorobenzene	4.196	146	2445009	48.84	ppb	98
15) 1,4-Dichlorobenzene	4.255	146	2441121	47.63	ppb	98
16) Benzyl alcohol	4.410	108	1220766	52.37	ppb	85
17) 1,2-Dichlorobenzene	4.384	146	2429808	51.80	ppb	99
18) Acetophenone	4.598	105	2976845	53.33	ppb	93
19) 2-Methylphenol	4.539	108	2091402	56.22	ppb	99
20) 2,2'-oxybis(1-Chloropr...	4.491	121	488531	51.10	ppb	89
21) 3&4-Methylphenol	4.678	108	2144813	54.35	ppb	100
22) n-Nitroso-di-n-propyla...	4.608	70	1261134	51.28	ppb	95
23) Hexachloroethane	4.646	201	668145	35.25	ppb	90
26) Nitrobenzene	4.737	77	2036816	52.32	ppb	98
27) Quinoline	5.608	129	4591644	57.91	ppb	100
28) Isophorone	4.940	82	3325261	52.62	ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1594\
 Data File : 2p38185.D
 Acq On : 5 Jul 2014 10:12 pm
 Operator : andrews1
 Sample : op76077-msd
 Misc : op76077,e2p1594,33.5
 ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jul 10 21:32:49 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Wed Jul 09 10:31:08 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
29) 2-Nitrophenol	5.004	139	1221063	58.01	ppb	# 72
30) 2,4-Dimethylphenol	5.084	107	2224318	70.37	ppb	99
31) Benzoic acid	5.250	105	688131m	23.80	ppb	
32) bis(2-Chloroethoxy)met...	5.122	93	2137768	55.98	ppb	99
33) 2,4-Dichlorophenol	5.245	162	1987369	63.05	ppb	99
34) 2,6-Dichlorophenol	5.400	162	1924531	61.70	ppb	98
36) 1,2,4-Trichlorobenzene	5.261	180	1942720	51.28	ppb	98
38) Naphthalene	5.314	128	5537177	53.32	ppb	100
39) 4-Chloroaniline	5.400	127	1349250	28.62	ppb	96
40) 2,3-Dichloroaniline	6.133	161	2176267	51.79	ppb	96
41) Caprolactam	5.721	113	561185	56.33	ppb	98
42) Hexachlorobutadiene	5.416	225	1107865	51.23	ppb	98
43) 4-Chloro-3-methylphenol	5.854	107	1840111	59.91	ppb	97
44) 2-Methylnaphthalene	5.887	141	3221543	49.10	ppb	99
45) 1-Methylnaphthalene	5.967	141	3765487	55.06	ppb	99
46) Dimethylnaphthalene	6.400	156	3654322	57.21	ppb	99
48) Hexachlorocyclopentadiene	6.010	237	243233	17.27	ppb	98
49) 2,4,6-Trichlorophenol	6.154	196	1406020	63.21	ppb	98
50) 2,4,5-Trichlorophenol	6.213	196	1504316	57.11	ppb	97
52) 2-Chloronaphthalene	6.282	162	3435532	48.68	ppb	96
53) Biphenyl	6.272	154	4898255	55.32	ppb	99
54) 2-Nitroaniline	6.405	65	947511	48.71	ppb	90
55) Dimethylphthalate	6.534	163	4102546	51.52	ppb	100
56) Acenaphthylene	6.619	152	4971891	44.42	ppb	99
57) 2,6-Dinitrotoluene	6.598	165	821727	46.36	ppb	99
58) 3-Nitroaniline	6.753	138	819013	39.66	ppb	94
59) Acenaphthene	6.758	153	3668038	51.66	ppb	97
60) 2,4-Dinitrophenol	6.876	184	110086	16.84	ppb	# 44
61) 4-Nitrophenol	6.999	109	569823m	67.69	ppb	
62) Dibenzofuran	6.903	168	4992191	51.06	ppb	99
63) 2,4-Dinitrotoluene	6.940	165	1003276	42.77	ppb	87
64) 2,3,4,6-Tetrachlorophenol	7.042	232	1159306	56.19	ppb	98
65) Diethylphthalate	7.111	149	4011214	50.28	ppb	98
66) Fluorene	7.186	166	3826902	49.86	ppb	100
67) 4-Chlorophenyl-phenyle...	7.186	204	1831835	51.06	ppb	93
68) 4-Nitroaniline	7.266	138	916736	45.53	ppb	96
70) 4,6-Dinitro-2-methylph...	7.288	198	132396	10.25	ppb	96
71) n-Nitrosodiphenylamine	7.293	169	2742834	54.83	ppb	98
72) 1,2-Diphenylhydrazine	7.315	77	3812190	54.06	ppb	96
74) 4-Bromophenyl-phenylether	7.582	248	1187518	53.54	ppb	98
75) Hexachlorobenzene	7.646	284	1428099	51.46	ppb	98
76) Pentachlorophenol	7.844	266	707053	50.48	ppb	97
77) Phenanthrene	7.994	178	5245619	51.50	ppb	100
78) Anthracene	8.042	178	5554249	53.37	ppb	100
79) Carbazole	8.224	167	5489026	52.68	ppb	99
80) Di-n-butylphthalate	8.561	149	7127730	57.93	ppb	100
81) Fluoranthene	9.229	202	6444757	53.70	ppb	98
82) Octadecane	7.892	43	1459591	59.96	ppb	98
84) Pyrene	9.492	202	6376323	53.66	ppb	99
86) Butylbenzylphthalate	10.390	149	2997146	56.03	ppb	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1594\
Data File : 2p38185.D
Acq On : 5 Jul 2014 10:12 pm
Operator : andrews1
Sample : op76077-msd
Misc : op76077,e2p1594,33.5
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jul 10 21:32:49 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 09 10:31:08 2014
Response via : Initial Calibration

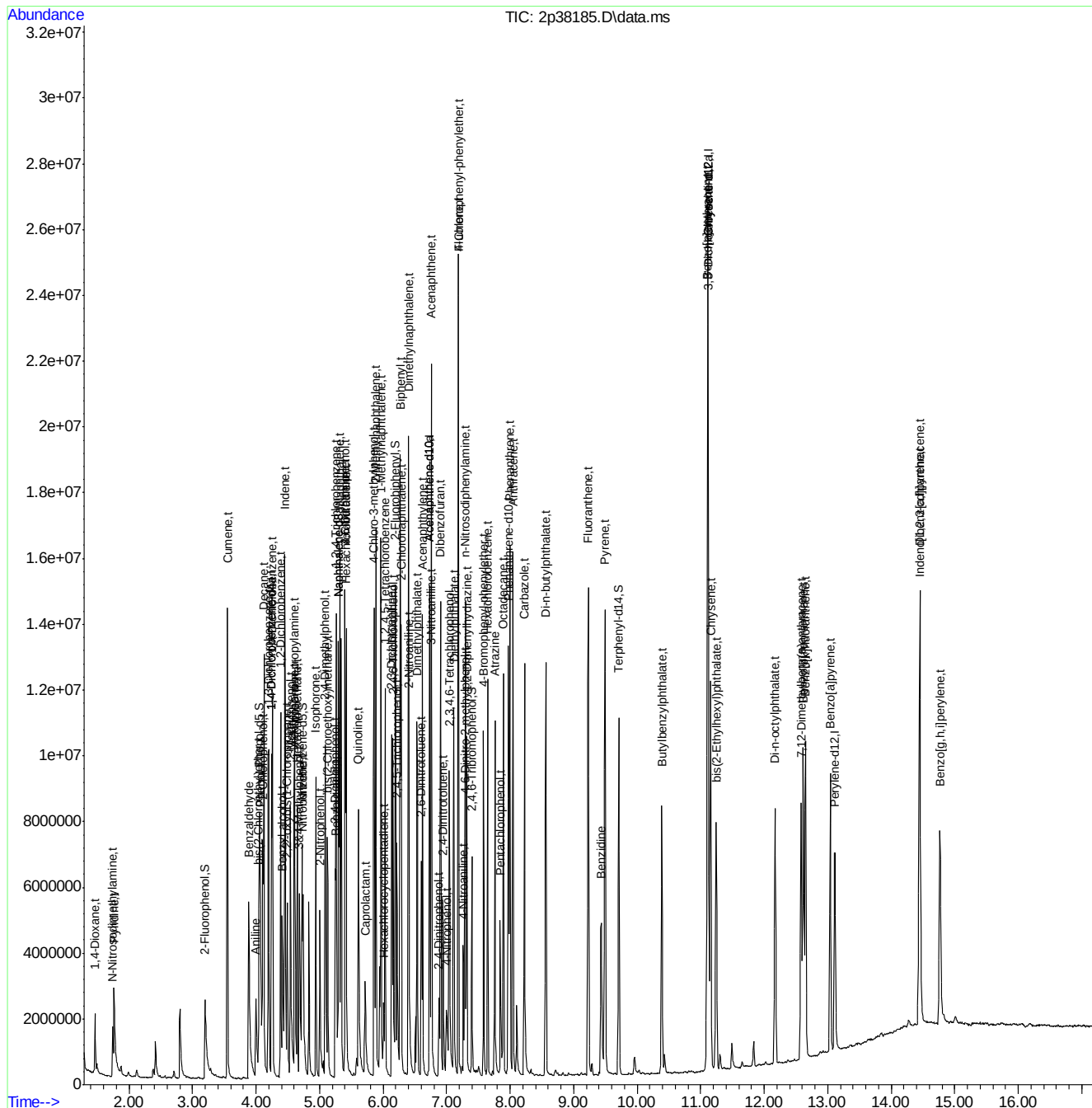
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
88) Benzo[a]anthracene	11.107	228	5514247	50.11	ppb	99
89) 3,3'-Dichlorobenzidine	11.112	252	3742244	93.55	ppb	99
90) Chrysene	11.155	228	5095217	52.52	ppb	99
91) bis(2-Ethylhexyl)phtha...	11.246	149	3853035	54.58	ppb	99
93) Di-n-octylphthalate	12.171	149	6257311	67.86	ppb	99
94) Benzo[b]fluoranthene	12.615	252	4917485	58.57	ppb	99
95) Benzo[k]fluoranthene	12.647	252	4638966	59.17	ppb	97
96) Benzo[a]pyrene	13.038	252	4294192	58.53	ppb	97
97) Indeno[1,2,3-cd]pyrene	14.444	276	4762822	52.58	ppb	94
99) Dibenz[a,h]anthracene	14.450	278	3971631	55.79	ppb	96
100) 7,12-Dimethylbenz(a)an...	12.583	256	2276087	64.92	ppb	99
101) Benzo[g,h,i]perylene	14.765	276	3646287	48.61	ppb	93
103) Benzaldehyde	3.886	105	1838884	55.40	ppb	99
105) Atrazine	7.759	215	534309	53.19	ppb	98
106) 1,2,4,5-Tetrachloroben...	6.031	216	1986229	45.23	ppb	100
108) Benzidine	9.433	184	2997784	51.77	ppb	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1594\
Data File : 2p38185.D
Acq On : 5 Jul 2014 10:12 pm
Operator : andrews1
Sample : op76077-msd
Misc : op76077, e2p1594, 33.5
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jul 10 21:32:49 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 09 10:31:08 2014
Response via : Initial Calibration



M2P1583.M Thu Jul 10 21:32:53 2014 RPT1

Page: 4

9.4.2

Manual Integration Approval Summary

Sample Number: OP76077-MSD

Method: SW846 8270D

Lab FileID: 2P38185.D

Analyst approved: 07/10/14 21:36 Andrew Lee Smith

Injection Time: 07/05/14 22:12

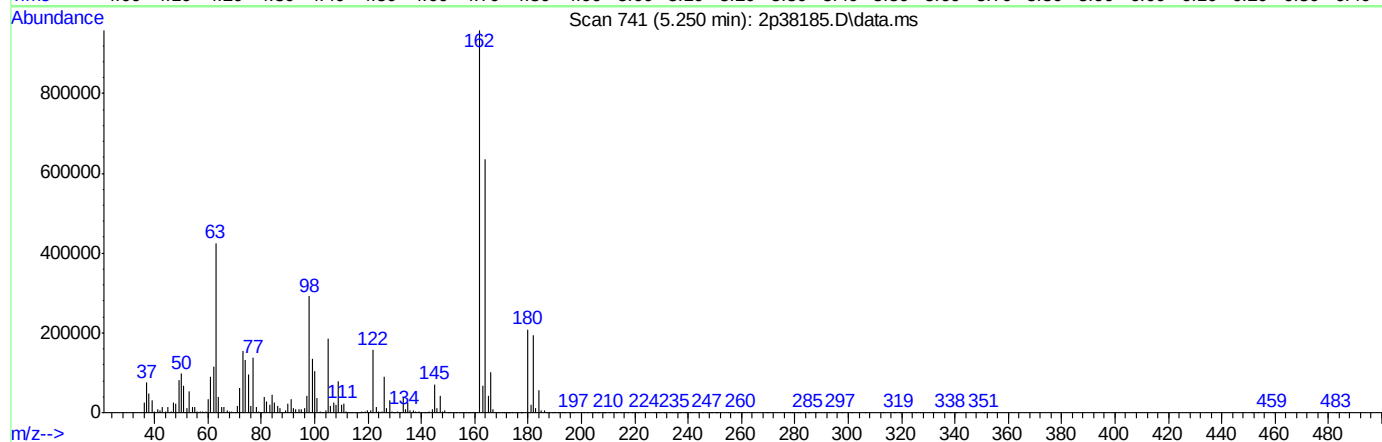
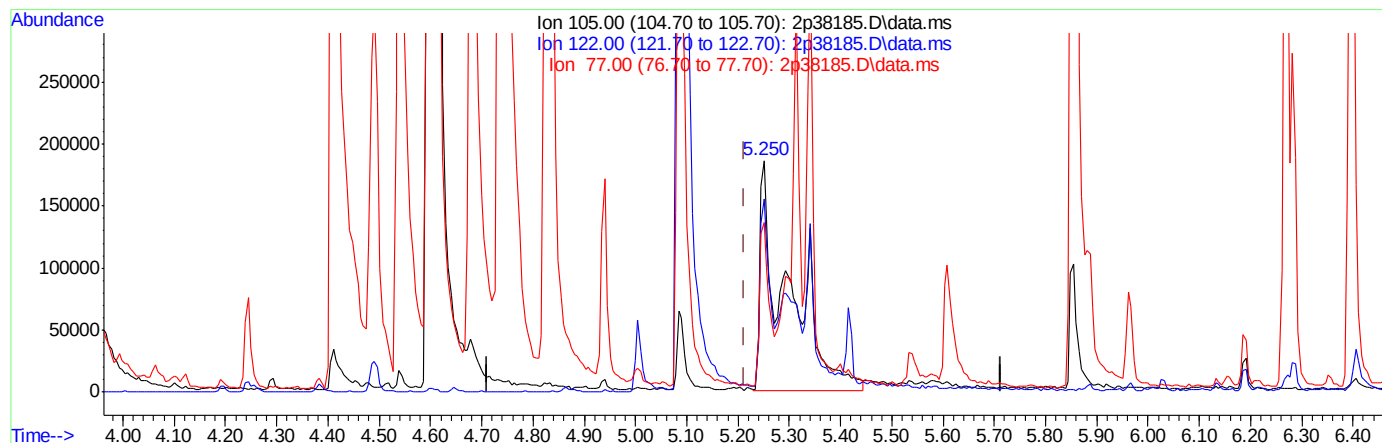
Supervisor approved: 07/14/14 15:34 Cheng-Hwan Ao

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic acid	65-85-0		5.25	Poor instrument integration
4-Nitrophenol	100-02-7		7.00	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1594\
Data File : 2p38185.D
Acq On : 5 Jul 2014 10:12 pm
Operator : andrews1
Sample : op76077-msd
Misc : op76077,e2p1594,33.5
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jul 10 21:32:01 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 09 10:31:08 2014
Response via : Initial Calibration



(31) Benzoic acid (t)

5.250min (+0.037) 23.80ppb m

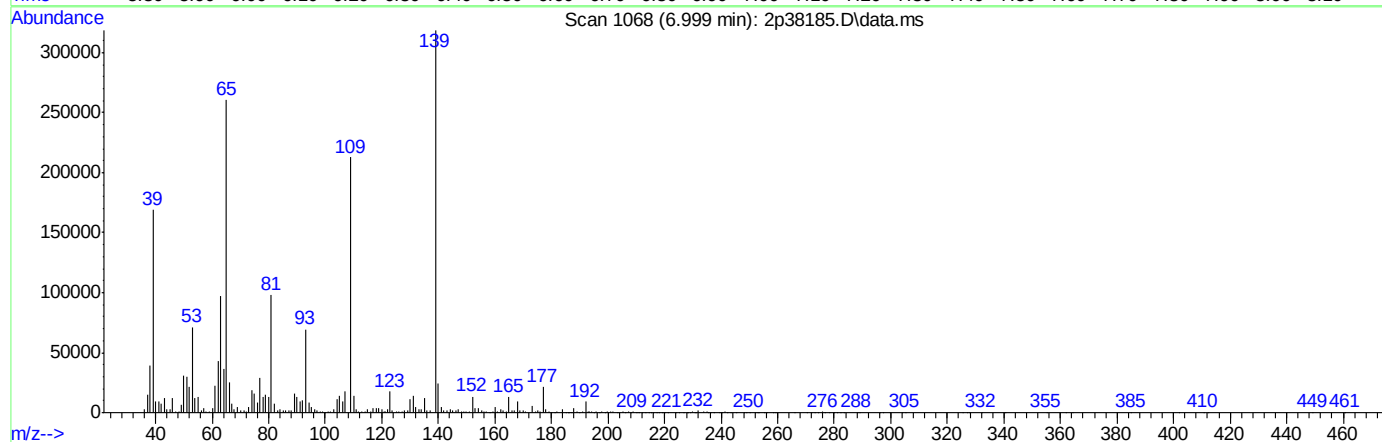
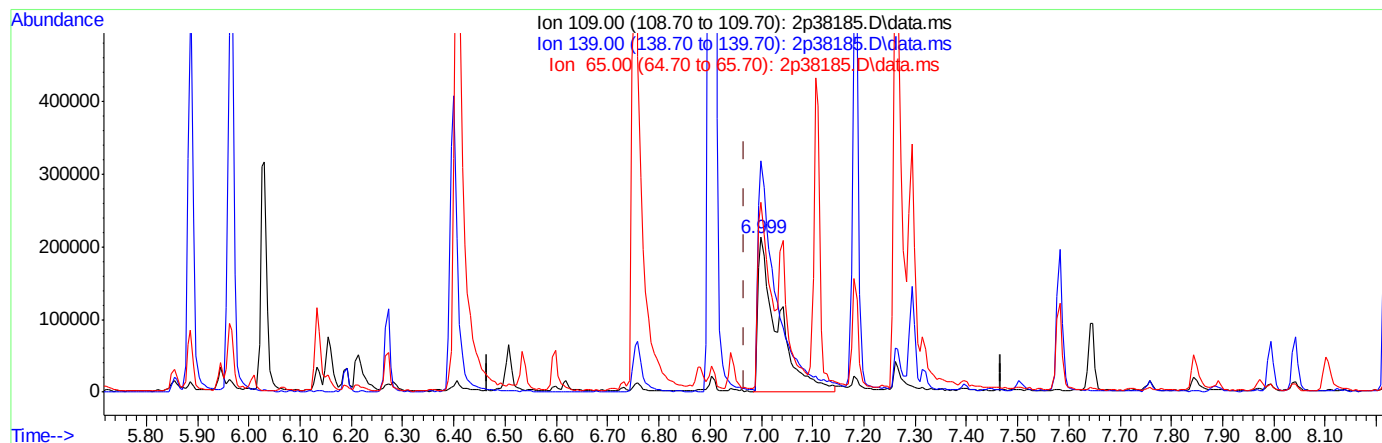
response 688131

Ion	Exp%	Act%
105.00	100	100
122.00	78.20	83.58
77.00	69.40	73.37
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1594\
Data File : 2p38185.D
Acq On : 5 Jul 2014 10:12 pm
Operator : andrews1
Sample : op76077-msd
Misc : op76077,e2p1594,33.5
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jul 10 21:32:01 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 09 10:31:08 2014
Response via : Initial Calibration



(61) 4-Nitrophenol (t)

6.999min (+0.032) 67.69ppb m

response 569823

Ion	Exp%	Act%
109.00	100	100
139.00	183.70	149.62#
65.00	129.40	122.36
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5726\F36794.D

Vial: 11

Acq On : 6 Jul 2014 6:27 pm

Operator: ashleyd

Sample : op76142-ms

Inst : MSF

Misc : op76142,ef5726,500

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Jul 06 18:49:32 2014

Quant Results File: MF5692.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Sat Jul 05 11:45:00 2014

Response via : Initial Calibration

DataAcq Meth : MF5692

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.66	152	144630	40.00	ppb	0.00
24) Naphthalene-d8	5.59	136	620706	40.00	ppb	0.00
47) Acenaphthene-d10	6.99	164	294493	40.00	ppb	0.00
69) Phenanthrene-d10	8.85	188	457340	40.00	ppb	0.00
83) Chrysene-d12	14.10	240	421560	40.00	ppb	0.00
92) Perylene-d12	17.14	264	369825	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4b	4.66	152	144630	40.00	ppb	0.00
104) Naphthalene-d8b	5.59	136	620706	40.00	ppb	0.00
106) Acenaphthene-d10b	6.99	164	294493	40.00	ppb	0.00
108) Phenanthrene-d10b	8.85	188	457340	40.00	ppb	0.00
110) Chrysene-d12b	14.10	240	421560	40.00	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol	3.71	112	188280	36.08	ppb	0.00
Spiked Amount 50.000			Recovery =	72.16%		
8) Phenol-d5	4.43	99	217069	33.21	ppb	0.00
Spiked Amount 50.000			Recovery =	66.42%		
25) Nitrobenzene-d5	5.07	82	256610	39.19	ppb	0.00
Spiked Amount 50.000			Recovery =	78.38%		
51) 2-Fluorobiphenyl	6.38	172	455480	44.40	ppb	0.00
Spiked Amount 50.000			Recovery =	88.80%		
73) 2,4,6-Tribromophenol	7.88	330	59004	57.45	ppb	0.00
Spiked Amount 50.000			Recovery =	114.90%		
85) Terphenyl-d14	11.88	244	446707	46.61	ppb	0.00
Spiked Amount 50.000			Recovery =	93.22%		

Target Compounds

						Qvalue
2) 1,4-Dioxane	2.23	88	89541	34.68	ppb	92
3) Pyridine	2.56	79	164440	27.00	ppb	81
4) N-Nitrosodimethylamine	2.52	42	115244	44.28	ppb	# 57
6) Indene	4.86	116	533779	56.61	ppb	98
7) Cumene	4.08	105	526179	40.50	ppb	97
9) Phenol	4.43	94	287958m	40.16	ppb	
10) Aniline	4.43	93	246752	28.10	ppb	# 1
11) bis(2-Chloroethyl)ether	4.47	93	231567	45.49	ppb	96
12) 2-Chlorophenol	4.53	128	270102	47.61	ppb	93
13) Decane	4.55	43	236235	40.43	ppb	85
14) 1,3-Dichlorobenzene	4.63	146	211516	33.83	ppb	97
15) 1,4-Dichlorobenzene	4.68	146	213064	34.33	ppb	99
16) Benzyl alcohol	4.78	108	164057	43.42	ppb	87
17) 1,2-Dichlorobenzene	4.79	146	208065	35.60	ppb	97
18) Acetophenone	4.96	105	374156	50.43	ppb	98
19) 2-Methylphenol	4.87	108	253856	49.45	ppb	98
20) 2,2'-oxybis(1-Chloropropan	4.86	121	160862	93.33	ppb	# 63
21) 3&4-Methylphenol	4.97	108	269546	51.11	ppb	95
22) n-Nitroso-di-n-propylamine	4.96	70	177857	49.54	ppb	87
23) Hexachloroethane	5.04	201	70971	36.27	ppb	# 80
26) Nitrobenzene	5.09	77	267188	40.06	ppb	90
27) Quinoline	5.86	129	558316	42.55	ppb	97
28) Isophorone	5.26	82	461494	39.85	ppb	95

(#) = qualifier out of range (m) = manual integration

F36794.D MF5692.M

Mon Jul 07 17:52:32 2014

RT1

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5726\F36794.D

Vial: 11

Acq On : 6 Jul 2014 6:27 pm

Operator: ashleyd

Sample : op76142-ms

Inst : MSF

Misc : op76142,ef5726,500

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Jul 06 18:49:32 2014

Quant Results File: MF5692.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Sat Jul 05 11:45:00 2014

Response via : Initial Calibration

DataAcq Meth : MF5692

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
29) 2-Nitrophenol	5.32	139	144477	45.28	ppb	94
30) 2,4-Dimethylphenol	5.35	107	297248	49.06	ppb	92
31) Benzoic acid	5.45	105	210289	52.60	ppb	83
32) bis(2-Chloroethoxy)methane	5.41	93	270346	39.70	ppb	95
33) 2,4-Dichlorophenol	5.50	162	223308	45.34	ppb	98
34) 2,6-Dichlorophenol	5.65	162	209619	45.24	ppb	98
36) 1,2,4-Trichlorobenzene	5.55	180	179996	31.90	ppb	97
38) Naphthalene	5.61	128	4212819	227.21	ppb	77
39) 4-Chloroaniline	5.65	127	156551	19.63	ppb	95
40) 2,3-Dichloroaniline	6.32	161	241435	38.25	ppb	96
41) Caprolactam	5.93	55	76941	26.31	ppb	88
42) Hexachlorobutadiene	5.69	225	95301	33.28	ppb	98
43) 4-Chloro-3-methylphenol	6.00	107	252866	49.17	ppb	86
44) 2-Methylnaphthalene	6.10	141	634842	58.79	ppb	95
45) 1-Methylnaphthalene	6.18	142	919102	73.80	ppb	94
46) Dimethylnaphthalene	6.60	156	495605	44.71	ppb	93
48) Hexachlorocyclopentadiene	6.22	237	217957	100.86	ppb	98
49) 2,4,6-Trichlorophenol	6.33	196	152706	55.32	ppb	99
50) 2,4,5-Trichlorophenol	6.37	196	160606	56.36	ppb	97
52) 2-Chloronaphthalene	6.49	162	384514	41.01	ppb	93
53) Biphenyl	6.46	154	719401	57.21	ppb	99
54) 2-Nitroaniline	6.58	65	168561	65.07	ppb	88
55) Dimethylphthalate	6.72	163	486976	50.33	ppb	96
56) Acenaphthylene	6.85	152	575775	38.48	ppb	99
57) 2,6-Dinitrotoluene	6.79	165	112842	52.37	ppb	94
58) 3-Nitroaniline	6.95	138	90723	34.58	ppb	90
59) Acenaphthene	7.03	153	831114	87.77	ppb	99
60) 2,4-Dinitrophenol	7.06	184	174542	138.08	ppb	# 21
61) 4-Nitrophenol	7.15	109	83640	68.52	ppb	# 55
62) Dibenzofuran	7.20	168	894793	68.30	ppb	96
63) 2,4-Dinitrotoluene	7.19	165	150287	52.72	ppb	91
64) 2,3,4,6-Tetrachlorophenol	7.34	232	123236	56.20	ppb	94
65) Diethylphthalate	7.44	149	508852	52.99	ppb	98
66) Fluorene	7.58	166	702862	67.46	ppb	100
67) 4-Chlorophenyl-phenylether	7.57	204	226570	48.94	ppb	89
68) 4-Nitroaniline	7.61	138	100154	37.88	ppb	75
70) 4,6-Dinitro-2-methylphenol	7.65	198	102595	60.94	ppb	91
71) n-Nitrosodiphenylamine	7.72	169	350087	53.19	ppb	99
72) 1,2-Diphenylhydrazine	7.77	77	558017	54.67	ppb	93
74) 4-Bromophenyl-phenylether	8.20	248	124449	50.40	ppb	95
75) Hexachlorobenzene	8.30	284	123414	45.08	ppb	92
76) Pentachlorophenol	8.59	266	103187	69.73	ppb	98
77) Phenanthrene	8.89	178	1137978	80.37	ppb	100
78) Anthracene	8.97	178	741995	52.84	ppb	99
79) Carbazole	9.25	167	729321	54.22	ppb	98
80) Di-n-butylphthalate	9.93	149	845082	58.56	ppb	99
81) Fluoranthene	11.02	202	802296	55.85	ppb	95
82) Octadecane	8.74	57	409817	62.94	ppb	89
84) Pyrene	11.47	202	795230	52.79	ppb	95

(#) = qualifier out of range (m) = manual integration

F36794.D MF5692.M

Mon Jul 07 17:52:32 2014

RT1

Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5726\F36794.D Vial: 11
 Acq On : 6 Jul 2014 6:27 pm Operator: ashleyd
 Sample : op76142-ms Inst : MSF
 Misc : op76142,ef5726,500 Multiplr: 1.00
 MS Integration Params: LSCINT.P
 Quant Time: Jul 06 18:49:32 2014 Quant Results File: MF5692.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)
 Title : Semi Volatile Extractables by GC/MS
 Last Update : Sat Jul 05 11:45:00 2014
 Response via : Initial Calibration
 DataAcq Meth : MF5692

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
86) Butylbenzylphthalate	13.05	149	375071	61.88	ppb	94
88) Benzo[a]anthracene	14.08	228	627198	46.87	ppb	98
90) Chrysene	14.16	228	614487	47.80	ppb	99
91) bis(2-Ethylhexyl)phthalate	14.45	149	528085	65.73	ppb	97
93) Di-n-octylphthalate	15.88	149	911479	63.39	ppb	95
94) Benzo[b]fluoranthene	16.40	252	681099	47.24	ppb	98
95) Benzo[k]fluoranthene	16.46	252	623818	43.97	ppb	98
96) Benzo[a]pyrene	17.03	252	592848	48.67	ppb	99
97) Indeno[1,2,3-cd]pyrene	19.09	276	558279	51.64	ppb	93
99) Dibenz[a,h]anthracene	19.14	278	577396	51.87	ppb	99
100) 7,12-Dimethylbenz(a)anthra	16.41	256	327229	50.00	ppb	97
101) Benzo[g,h,i]perylene	19.52	276	576564	50.10	ppb	98
103) Benzaldehyde	4.54	105	225438	63.45	ppb #	14
107) 1,2,4,5-Tetrachlorobenzene	6.23	216	187112	45.05	ppb	98
109) Atrazine	8.48	200	101320	45.37	ppb	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 F36794.D MF5692.M Mon Jul 07 17:52:32 2014 RT1

Quantitation Report (QT Reviewed)

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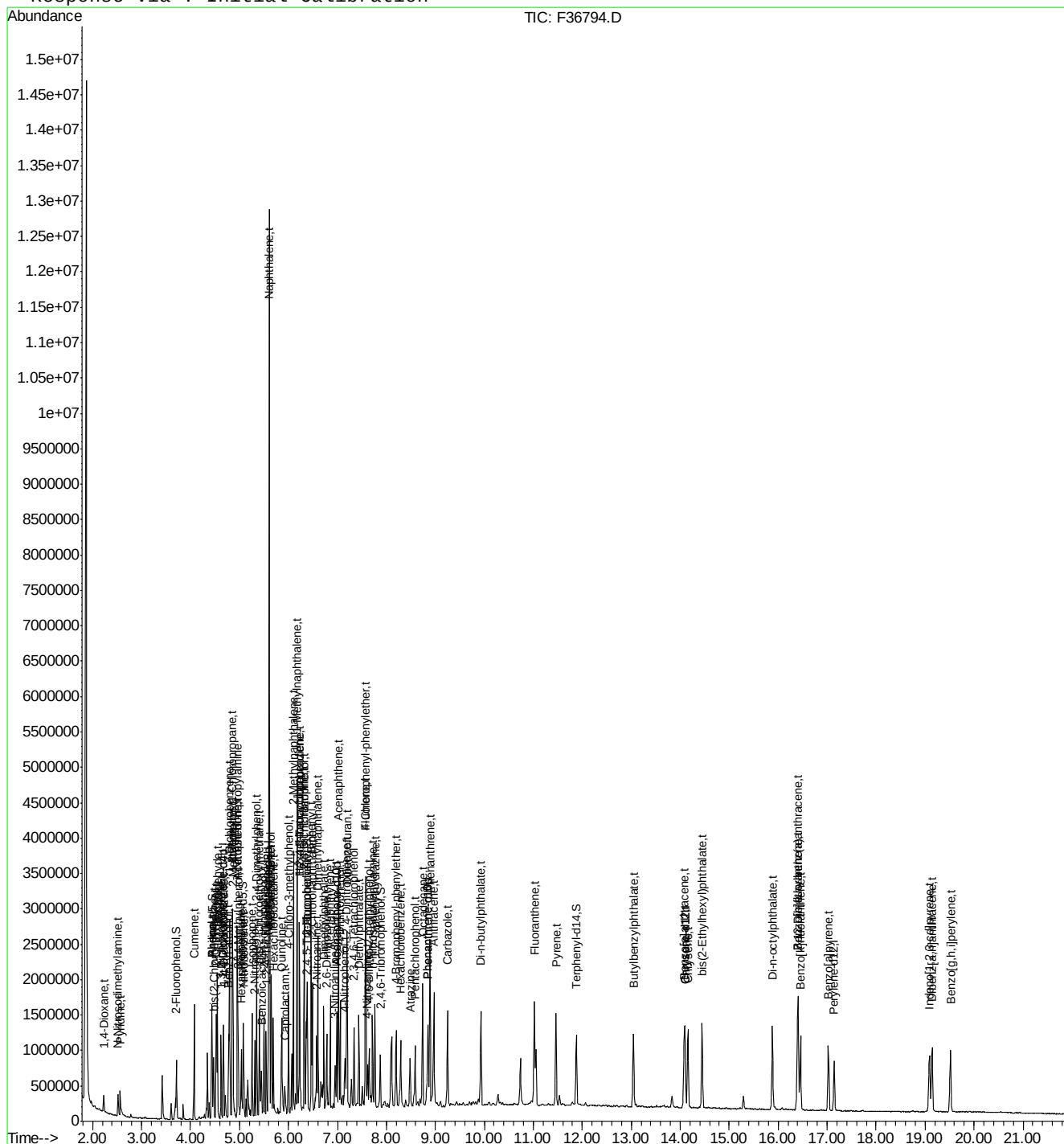
Data File   : C:\MSDCHEM\1\DATA\EF5726\F36794.D
Acq On      : 6 Jul 2014    6:27 pm
Sample      : op76142-ms
Misc        : op76142,ef5726,500
MS Integration Params: LSCINT.P
Quant Time  : Jul 7 17:52 2014

```

```
Vial: 11
Operator: ashleyd
Inst      : MSF
Multiplr: 1.00
```

Quant Results File: MF5692.RES

Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sat Jul 05 11:45:00 2014
Response via : Initial Calibration



F36794.D MF5692.M

Mon Jul 07 17:52:32 2014

RT1

Page 4

Manual Integration Approval Summary

Sample Number: OP76142-MS

Method: SW846 8270D

Lab FileID: F36794.D

Analyst approved: 07/07/14 18:41 Olga Azarihn

Injection Time: 07/06/14 18:27

Supervisor approved: 07/13/14 17:46 Cheng-Hwan Ao

Parameter	CAS	Sig#	R.T. (min.)	Reason
Phenol	108-95-2		4.43	Poor instrument integration

9.4.3.1
9

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF5726\F36794.D

Vial: 11

Acq On : 6 Jul 2014 6:27 pm

Operator: ashleyd

Sample : op76142-ms

Inst : MSF

Misc : op76142,ef5726,500

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Jul 7 17:51 2014

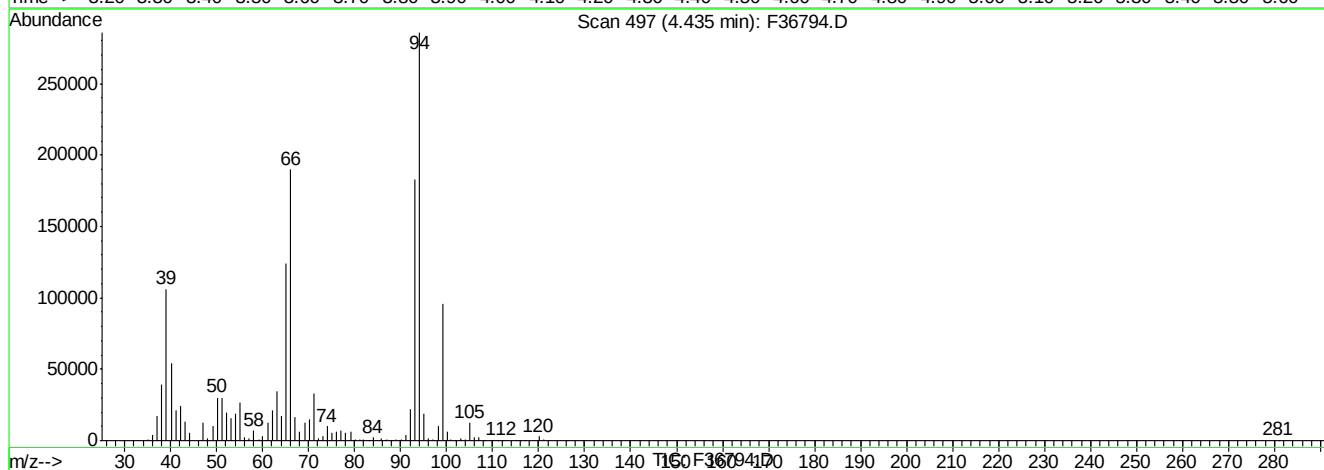
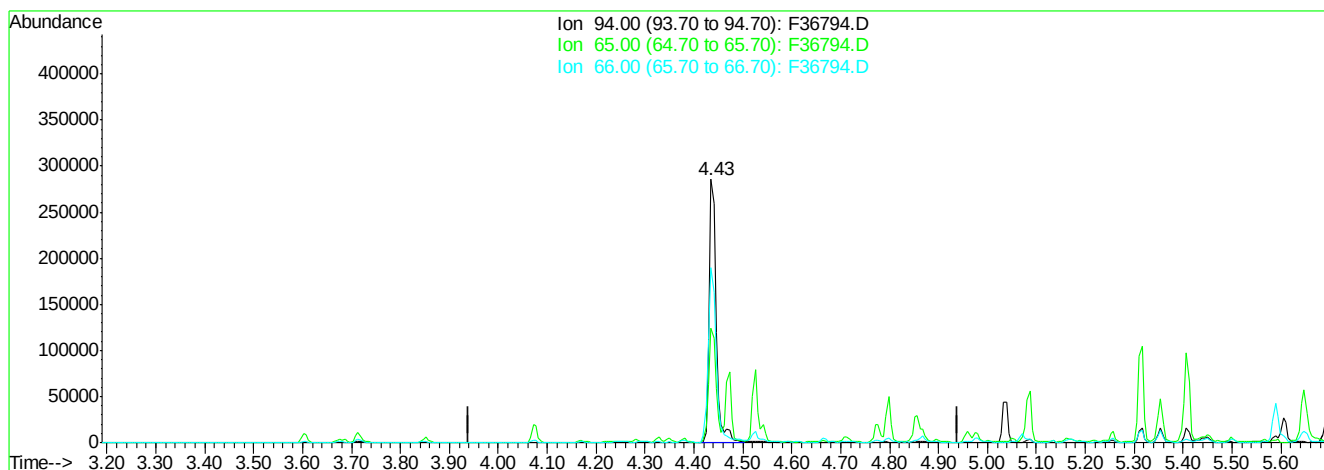
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Sat Jul 05 11:45:00 2014

Response via : Multiple Level Calibration



(9) Phenol (t)

4.43min 40.16ppb m

response 287958

Ion	Exp%	Act%
94.00	100	100
65.00	20.60	43.48
66.00	23.20	66.41#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5726\F36795.D

Vial: 12

Acq On : 6 Jul 2014 6:56 pm

Operator: ashleyd

Sample : op76142-msd

Inst : MSF

Misc : op76142,ef5726,500

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Jul 06 19:18:37 2014

Quant Results File: MF5692.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Sat Jul 05 11:45:00 2014

Response via : Initial Calibration

DataAcq Meth : MF5692

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.67	152	163706	40.00	ppb	0.00
24) Naphthalene-d8	5.59	136	673906	40.00	ppb	0.00
47) Acenaphthene-d10	6.99	164	317501	40.00	ppb	0.00
69) Phenanthrene-d10	8.85	188	474788	40.00	ppb	0.00
83) Chrysene-d12	14.10	240	455015	40.00	ppb	0.00
92) Perylene-d12	17.15	264	407482	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4b	4.67	152	163706	40.00	ppb	0.00
104) Naphthalene-d8b	5.59	136	673906	40.00	ppb	0.00
106) Acenaphthene-d10b	6.99	164	317501	40.00	ppb	0.00
108) Phenanthrene-d10b	8.85	188	474788	40.00	ppb	0.00
110) Chrysene-d12b	14.10	240	455015	40.00	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol	3.71	112	194915	33.00	ppb	0.00
Spiked Amount 50.000			Recovery =	66.00%		
8) Phenol-d5	4.43	99	209829	28.37	ppb	0.00
Spiked Amount 50.000			Recovery =	56.74%		
25) Nitrobenzene-d5	5.07	82	264713	37.23	ppb	0.00
Spiked Amount 50.000			Recovery =	74.46%		
51) 2-Fluorobiphenyl	6.38	172	458357	41.45	ppb	0.00
Spiked Amount 50.000			Recovery =	82.90%		
73) 2,4,6-Tribromophenol	7.88	330	56296	52.80	ppb	0.00
Spiked Amount 50.000			Recovery =	105.60%		
85) Terphenyl-d14	11.88	244	432617	41.82	ppb	0.00
Spiked Amount 50.000			Recovery =	83.64%		

Target Compounds

						Qvalue
2) 1,4-Dioxane	2.23	88	99259	33.96	ppb	92
3) Pyridine	2.56	79	187917	27.25	ppb	81
4) N-Nitrosodimethylamine	2.52	42	124445	42.24	ppb	# 62
6) Indene	4.86	116	569468	53.35	ppb	99
7) Cumene	4.08	105	580659	39.48	ppb	96
9) Phenol	4.44	94	290515	35.79	ppb	# 31
10) Aniline	4.43	93	289045m	29.08	ppb	
11) bis(2-Chloroethyl)ether	4.47	93	233295	40.49	ppb	96
12) 2-Chlorophenol	4.53	128	279091	43.46	ppb	90
13) Decane	4.55	43	266718	40.33	ppb	85
14) 1,3-Dichlorobenzene	4.63	146	227375	32.12	ppb	98
15) 1,4-Dichlorobenzene	4.68	146	230785	32.85	ppb	99
16) Benzyl alcohol	4.78	108	167160	39.09	ppb	84
17) 1,2-Dichlorobenzene	4.79	146	225648	34.11	ppb	97
18) Acetophenone	4.96	105	385031	45.85	ppb	97
19) 2-Methylphenol	4.87	108	258535	44.49	ppb	98
20) 2,2'-oxybis(1-Chloropropan	4.86	121	131386	67.35	ppb	# 56
21) 3&4-Methylphenol	4.98	108	271036	45.40	ppb	99
22) n-Nitroso-di-n-propylamine	4.96	70	182034	44.80	ppb	85
23) Hexachloroethane	5.04	201	77064	34.79	ppb	95
26) Nitrobenzene	5.09	77	275580	38.05	ppb	91
27) Quinoline	5.86	129	556457	39.06	ppb	97
28) Isophorone	5.26	82	469663	37.36	ppb	94

(#) = qualifier out of range (m) = manual integration

F36795.D MF5692.M

Mon Jul 07 17:53:44 2014

RT1

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5726\F36795.D

Vial: 12

Acq On : 6 Jul 2014 6:56 pm

Operator: ashleyd

Sample : op76142-msd

Inst : MSF

Misc : op76142,ef5726,500

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Jul 06 19:18:37 2014

Quant Results File: MF5692.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Sat Jul 05 11:45:00 2014

Response via : Initial Calibration

DataAcq Meth : MF5692

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
29) 2-Nitrophenol	5.32	139	145168	41.91	ppb	91
30) 2,4-Dimethylphenol	5.35	107	302905	46.04	ppb	93
31) Benzoic acid	5.46	105	204830	47.89	ppb	86
32) bis(2-Chloroethoxy)methane	5.41	93	276929	37.46	ppb	98
33) 2,4-Dichlorophenol	5.50	162	223218	41.75	ppb	98
34) 2,6-Dichlorophenol	5.65	162	212467	42.23	ppb	98
36) 1,2,4-Trichlorobenzene	5.55	180	189089	30.86	ppb	99
38) Naphthalene	5.61	128	4511188	224.10	ppb	76
39) 4-Chloroaniline	5.65	127	170413	19.68	ppb	95
40) 2,3-Dichloroaniline	6.32	161	233352	34.05	ppb	95
41) Caprolactam	5.93	55	76059	23.95	ppb	89
42) Hexachlorobutadiene	5.69	225	104593	33.65	ppb	98
43) 4-Chloro-3-methylphenol	6.00	107	253682	45.43	ppb	85
44) 2-Methylnaphthalene	6.10	141	667856	56.96	ppb	96
45) 1-Methylnaphthalene	6.18	142	963114	71.23	ppb	94
46) Dimethylnaphthalene	6.60	156	496961	41.29	ppb	93
48) Hexachlorocyclopentadiene	6.22	237	222387	95.45	ppb	99
49) 2,4,6-Trichlorophenol	6.33	196	152540	51.25	ppb	99
50) 2,4,5-Trichlorophenol	6.37	196	160393	52.20	ppb	97
52) 2-Chloronaphthalene	6.49	162	395842	39.16	ppb	92
53) Biphenyl	6.46	154	730476	53.88	ppb	98
54) 2-Nitroaniline	6.58	65	170591	61.08	ppb	83
55) Dimethylphthalate	6.73	163	480666	46.08	ppb	98
56) Acenaphthylene	6.85	152	576845	35.76	ppb	99
57) 2,6-Dinitrotoluene	6.79	165	109674	47.21	ppb	93
58) 3-Nitroaniline	6.95	138	89478	31.63	ppb	89
59) Acenaphthene	7.03	153	869065	85.12	ppb	99
60) 2,4-Dinitrophenol	7.06	184	165687	122.59	ppb	# 50
61) 4-Nitrophenol	7.16	109	84929	64.54	ppb	# 71
62) Dibenzofuran	7.20	168	907341	64.24	ppb	95
63) 2,4-Dinitrotoluene	7.19	165	147625	48.03	ppb	86
64) 2,3,4,6-Tetrachlorophenol	7.34	232	123372	52.18	ppb	94
65) Diethylphthalate	7.44	149	497353	48.04	ppb	98
66) Fluorene	7.58	166	714908	63.65	ppb	99
67) 4-Chlorophenyl-phenylether	7.57	204	228470	45.78	ppb	88
68) 4-Nitroaniline	7.61	138	97853	34.33	ppb	78
70) 4,6-Dinitro-2-methylphenol	7.65	198	99086	56.88	ppb	90
71) n-Nitrosodiphenylamine	7.72	169	343610	50.29	ppb	98
72) 1,2-Diphenylhydrazine	7.77	77	557729	52.64	ppb	96
74) 4-Bromophenyl-phenylether	8.20	248	121443	47.37	ppb	96
75) Hexachlorobenzene	8.30	284	120934	42.55	ppb	90
76) Pentachlorophenol	8.59	266	100603	65.49	ppb	99
77) Phenanthrene	8.90	178	1130717	76.92	ppb	100
78) Anthracene	8.97	178	731584	50.18	ppb	99
79) Carbazole	9.25	167	709073	50.77	ppb	99
80) Di-n-butylphthalate	9.93	149	815269	54.42	ppb	99
81) Fluoranthene	11.02	202	782384	52.46	ppb	96
82) Octadecane	8.74	57	419098	62.00	ppb	90
84) Pyrene	11.47	202	771531	47.45	ppb	96

(#) = qualifier out of range (m) = manual integration

F36795.D MF5692.M

Mon Jul 07 17:53:44 2014

RT1

Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5726\F36795.D Vial: 12
Acq On : 6 Jul 2014 6:56 pm Operator: ashleyd
Sample : op76142-msd Inst : MSF
Misc : op76142,ef5726,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 06 19:18:37 2014 Quant Results File: MF5692.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sat Jul 05 11:45:00 2014
Response via : Initial Calibration
DataAcq Meth : MF5692

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
86) Butylbenzylphthalate	13.05	149	367077	56.11	ppb	93
88) Benzo[a]anthracene	14.08	228	618162	42.79	ppb	99
90) Chrysene	14.16	228	601019	43.31	ppb	99
91) bis(2-Ethylhexyl)phthalate	14.45	149	515624	59.46	ppb	94
93) Di-n-octylphthalate	15.88	149	890763	56.22	ppb	96
94) Benzo[b]fluoranthene	16.40	252	695558	43.78	ppb	98
95) Benzo[k]fluoranthene	16.46	252	618727	39.58	ppb	99
96) Benzo[a]pyrene	17.03	252	593336	44.21	ppb	99
97) Indeno[1,2,3-cd]pyrene	19.09	276	557576	46.81	ppb	96
99) Dibenz[a,h]anthracene	19.15	278	576601	47.01	ppb	98
100) 7,12-Dimethylbenz(a)anthra	16.41	256	336408	46.65	ppb	98
101) Benzo[g,h,i]perylene	19.53	276	584557	46.10	ppb	95
103) Benzaldehyde	4.34	105	273435	67.99	ppb	82
107) 1,2,4,5-Tetrachlorobenzene	6.23	216	191746	42.82	ppb	98
109) Atrazine	8.48	200	91679	39.54	ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed
F36795.D MF5692.M Mon Jul 07 17:53:44 2014 RT1

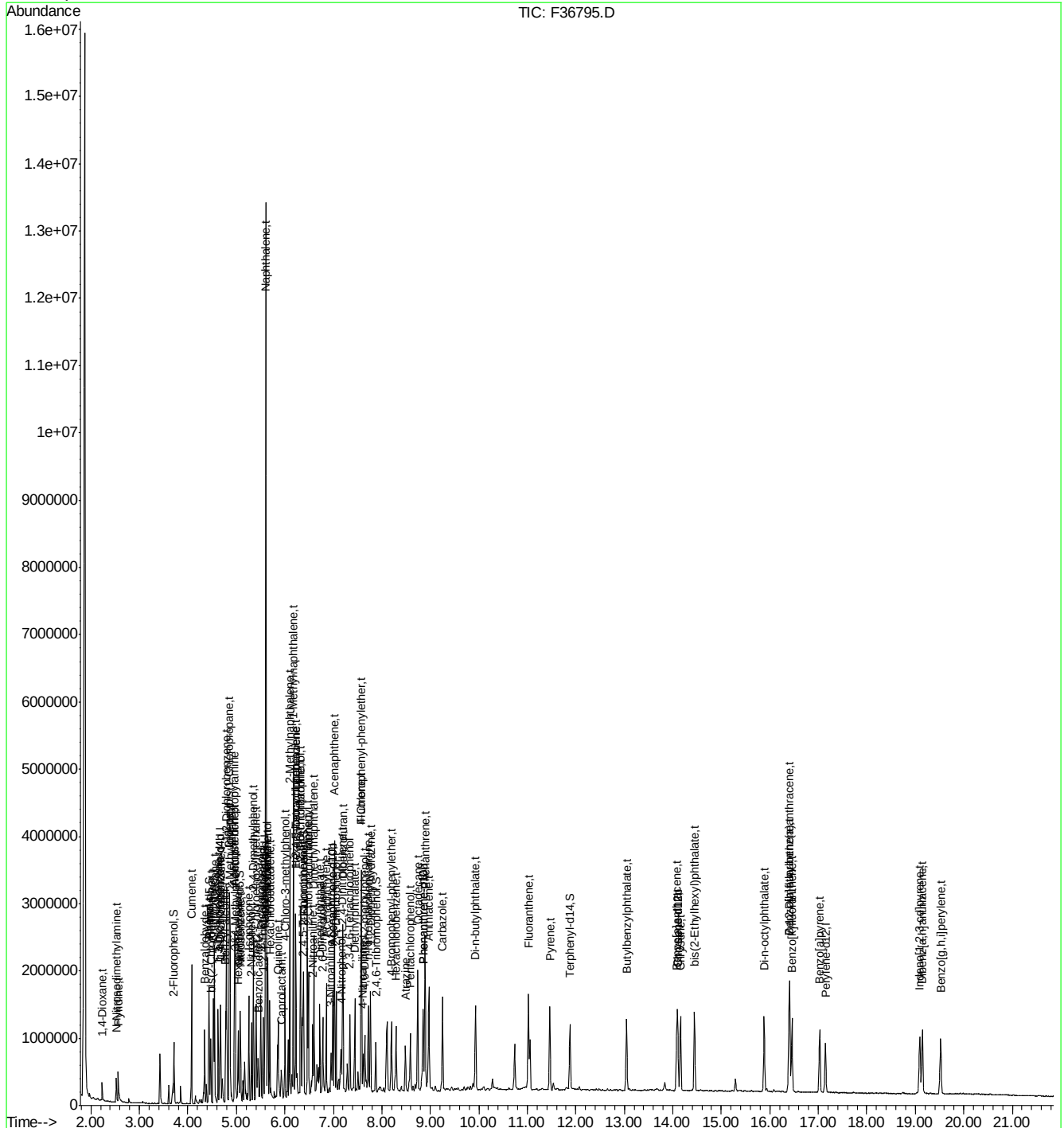
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5726\F36795.D
Acq On : 6 Jul 2014 6:56 pm
Sample : op76142-msd
Misc : op76142,ef5726,500
MS Integration Params: LSCINT.P
Quant Time: Jul 7 17:53 2014 Qu

```
Vial: 12
Operator: ashleyd
Inst : MSF
Multiplr: 1.00
```

Quant Results File: MF5692.RES

Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sat Jul 05 11:45:00 2014
Response via : Initial Calibration



F36795.D MF5692.M

Mon Jul 07 17:53:44 2014

RT1

Page 4

Manual Integration Approval Summary

Sample Number: OP76142-MSD

Method: SW846 8270D

Lab FileID: F36795.D

Analyst approved: 07/07/14 18:41 Olga Azarihn

Injection Time: 07/06/14 18:56

Supervisor approved: 07/13/14 17:46 Cheng-Hwan Ao

Parameter	CAS	Sig#	R.T. (min.)	Reason
Aniline	62-53-3		4.43	Poor instrument integration

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF5726\F36795.D

Vial: 12

Acq On : 6 Jul 2014 6:56 pm

Operator: ashleyd

Sample : op76142-msd

Inst : MSF

Misc : op76142,ef5726,500

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Jul 7 17:52 2014

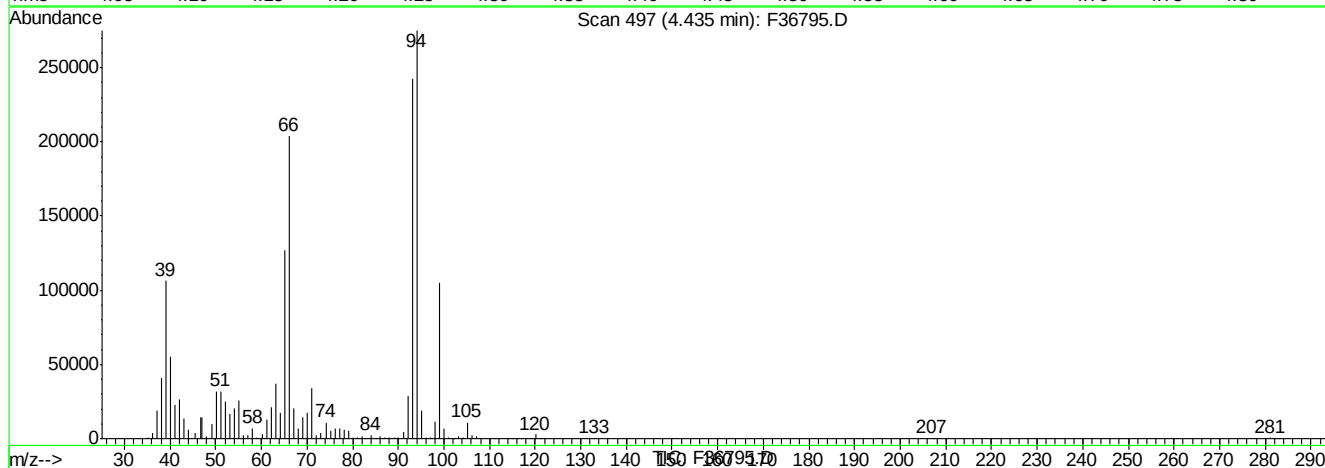
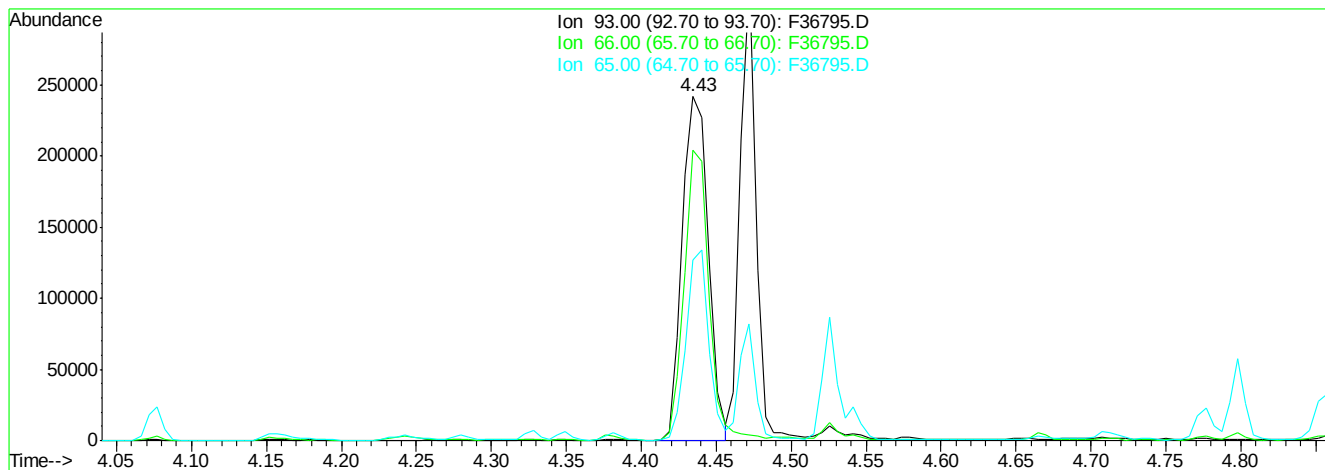
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Sat Jul 05 11:45:00 2014

Response via : Multiple Level Calibration



(10) Aniline (t)

4.43min 29.08ppb m

response 289045

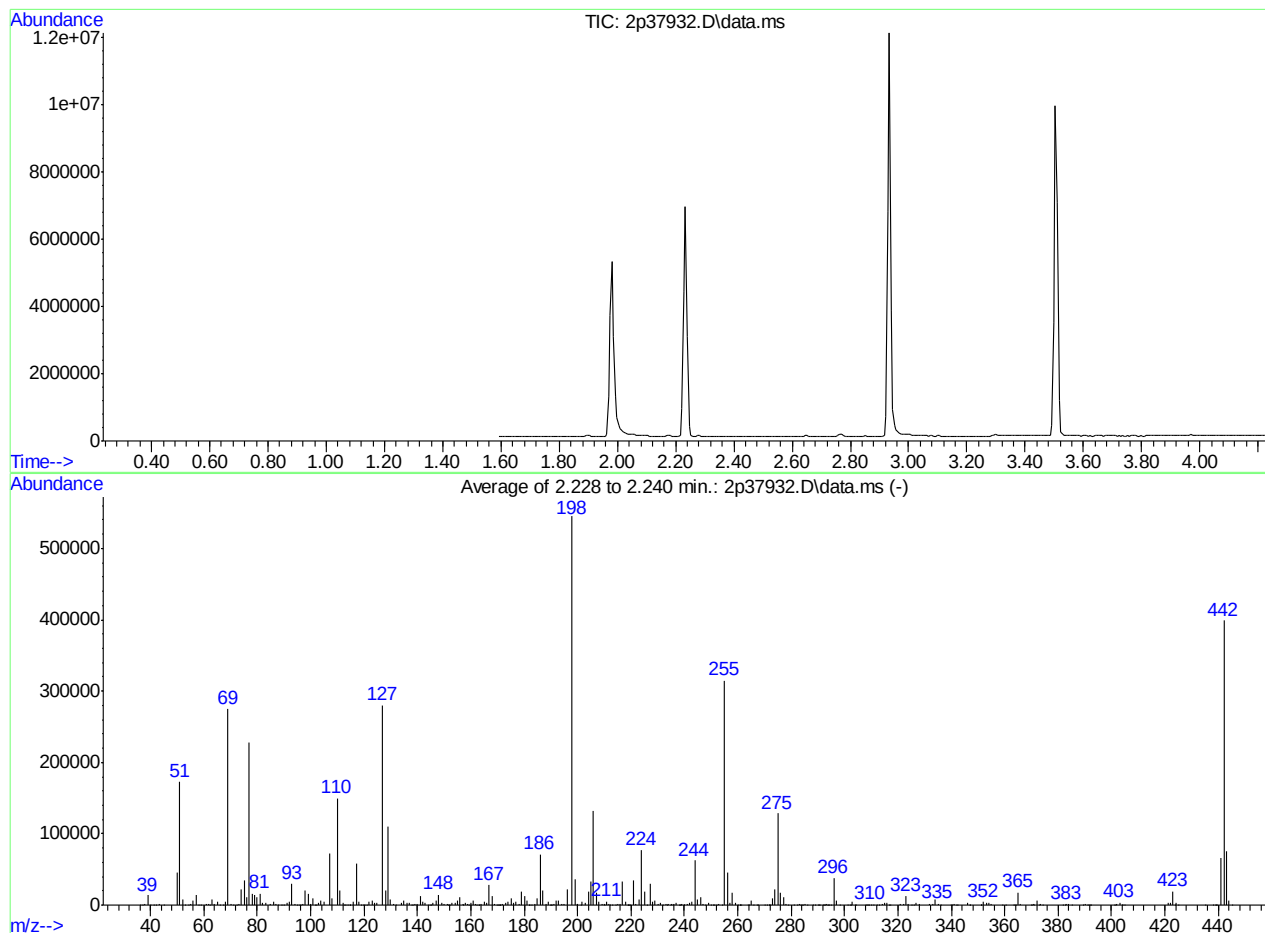
Ion	Exp%	Act%
93.00	100	100
66.00	36.90	84.15#
65.00	19.00	52.40#
0.00	0.00	0.00

DFTPP

Data File : C:\msdchem\1\DATA\2P1583\2p37932.D
 Acq On : 27 Jun 2014 10:37 am
 Sample : dftpp
 Misc : op75638,e2p1583,
 MS Integration Params: events.e

Vial: 1
 Operator: elwiraa
 Inst : MS2P
 Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\DFTPP2P.M (ChemStation Integrator)
 Title :



AutoFind: Scans 109, 110, 111; Background Corrected with Scan 105

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	31.7	172592	PASS
68	69	0.00	2	1.8	5074	PASS
69	198	0.00	100	50.4	274705	PASS
70	69	0.00	2	0.5	1486	PASS
127	198	40	60	51.5	280341	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	544875	PASS
199	198	5	9	6.8	36893	PASS
275	198	10	30	23.5	128184	PASS
365	198	1	100	3.2	17375	PASS
441	443	0.01	100	87.5	66136	PASS
442	198	40	100	73.2	399040	PASS
443	442	17	23	18.9	75547	PASS

Average of 2.228 to 2.240 min.: 2p37932.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.95	25	52.00	8586	62.95	7573	74.00	22366
37.00	672	52.95	407	63.95	1297	75.00	35239
38.00	2176	54.20	111	65.00	4300	76.10	11110
38.95	13590	55.00	1307	66.00	407	77.00	227724
40.00	111	56.00	5638	67.05	560	78.05	15791
41.00	645	56.95	13491	68.00	5074	78.95	14862
42.00	273	58.05	675	69.00	274705	80.00	11732
43.10	936	59.00	121	70.00	1486	81.00	16388
45.00	705	61.00	2196	71.00	404	82.00	3111
49.95	45358	61.95	2283	72.10	465	83.05	3531
51.00	172592	62.15	237	73.00	1433	85.00	2380

Average of 2.228 to 2.240 min.: 2p37932.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
86.00	4245	96.05	844	107.00	72166	117.00	57843
86.90	1953	97.05	1107	108.00	9742	117.95	4084
87.95	615	98.00	19989	110.00	150069	118.90	353
88.90	367	99.00	16072	111.00	21126	119.90	570
90.00	212	100.10	2016	111.95	2871	120.05	679
91.00	3726	101.00	9104	112.70	210	120.90	472
91.95	4297	101.80	212	113.00	336	122.00	4910
93.00	29647	102.00	464	114.00	136	122.95	6785
94.05	1444	103.00	3719	114.50	241	123.95	3456
95.00	538	103.95	6222	114.70	244	124.95	2979
95.80	228	105.00	5045	116.00	4505	127.00	280341

Average of 2.228 to 2.240 min.: 2p37932.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
128.00	21080	139.05	1018	149.00	2853	157.20	734
129.00	110690	139.90	1112	149.95	1376	157.95	2464
129.95	7839	141.00	12363	151.10	1488	158.85	901
131.00	1531	142.05	4521	151.50	717	159.10	692
131.85	698	142.95	2950	151.80	429	159.95	3477
133.90	3559	143.95	734	152.20	372	160.95	6388
134.95	6488	144.80	113	153.00	3920	161.85	1486
135.95	2884	145.05	762	154.05	3082	162.10	321
137.00	3792	145.95	3203	155.00	6239	162.80	168
137.90	406	146.95	5911	156.00	11601	163.05	611
138.20	107	148.00	14464	157.00	2118	163.95	1340

Average of 2.228 to 2.240 min.: 2p37932.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
164.95	4012	173.00	2749	182.85	840	192.00	5912
165.95	3615	174.05	5351	183.80	1522	192.90	6609
166.95	28109	175.05	9201	185.00	9090	194.05	1739
167.95	13020	176.05	3332	186.00	71387	195.00	1560
169.00	2243	177.00	4521	187.00	20178	196.00	21904
169.70	178	177.95	1921	188.05	2275	197.90	544875
169.95	671	178.95	19581	189.00	4540	198.95	36893
170.55	317	180.00	12666	189.70	182	199.90	2307
170.80	536	181.00	6459	189.95	314	200.10	1552
171.05	690	181.80	200	190.40	114	201.10	828
171.95	2284	182.00	769	191.00	1938	201.55	4853

Average of 2.228 to 2.240 min.: 2p37932.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
203.00	3798	211.60	1526	219.60	162	231.00	3138
204.00	18496	212.00	612	220.95	34160	231.90	661
204.95	32901	212.95	422	221.70	1477	233.00	887
206.00	131995	214.00	199	223.00	7940	233.70	478

206.95	17286	215.00	1205	224.00	77067	233.95	1305
208.00	4608	216.00	2321	224.95	18406	234.60	265
208.95	1379	216.90	32432	226.00	826	235.00	2173
209.80	327	217.95	4578	227.00	29368	235.80	460
210.15	2059	218.70	121	228.00	4694	236.00	951
210.70	1107	218.95	324	228.95	6711	236.90	2605
211.00	5021	219.25	376	230.00	1591	238.00	180

Average of 2.228 to 2.240 min.: 2p37932.D\data.ms
dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
238.20	204	247.05	2194	257.00	3241	267.15	293
238.40	274	247.95	408	258.00	17595	267.60	194
238.90	1195	248.90	2858	258.95	2734	269.85	463
239.80	229	250.05	371	259.90	500	271.00	714
240.00	749	250.80	104	260.60	91	271.70	119
240.95	1932	251.10	511	260.80	440	271.90	445
242.05	3383	252.00	374	261.10	144	272.20	269
242.95	4238	252.95	1031	263.60	265	272.95	9329
244.00	62413	253.90	748	264.10	248	273.95	22731
245.05	8588	255.00	314923	264.95	6899	275.00	128184
245.95	10935	256.00	46125	265.85	193	276.00	17682

Average of 2.228 to 2.240 min.: 2p37932.D\data.ms
dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
277.00	11387	288.15	260	294.10	180	307.65	287
277.95	1489	288.85	499	294.85	773	308.05	364
278.95	288	290.00	93	296.00	38469	308.70	144
281.00	146	290.20	137	297.00	5786	309.00	425
282.10	605	290.75	325	298.00	397	309.90	500
282.95	1205	292.00	603	300.95	681	310.90	139
283.30	230	292.20	196	301.90	622	311.90	396
284.00	565	292.80	546	302.20	166	312.95	390
284.30	276	293.00	2143	302.90	4343	313.95	1354
285.00	2290	293.60	205	303.90	313	314.95	3832
286.05	724	293.85	705	304.05	840	316.00	2454

Average of 2.228 to 2.240 min.: 2p37932.D\data.ms
dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
316.80	324	332.90	1210	347.00	190	364.10	391
317.10	551	333.95	8131	350.90	86	365.00	17375
320.90	2061	334.95	2364	351.15	346	365.95	2427
322.00	1050	335.90	170	352.00	4295	369.80	113
323.05	12638	339.95	449	353.05	2906	370.15	423
324.00	2278	340.20	92	354.00	3368	370.80	464
324.90	239	340.95	1313	355.05	875	371.00	1018
325.95	208	341.85	515	358.95	289	372.05	6734
326.90	2953	342.30	162	360.50	97	372.90	857
327.95	1126	345.95	3111	363.30	89	373.15	1190
331.95	1108	346.80	316	363.70	130	374.10	217

Average of 2.228 to 2.240 min.: 2p37932.D\data.ms
dftpp

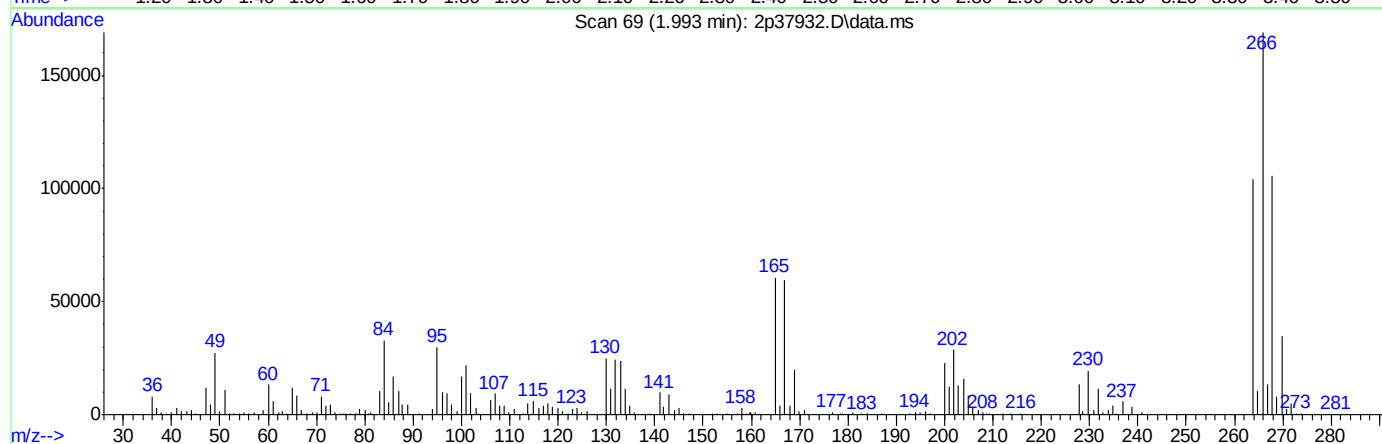
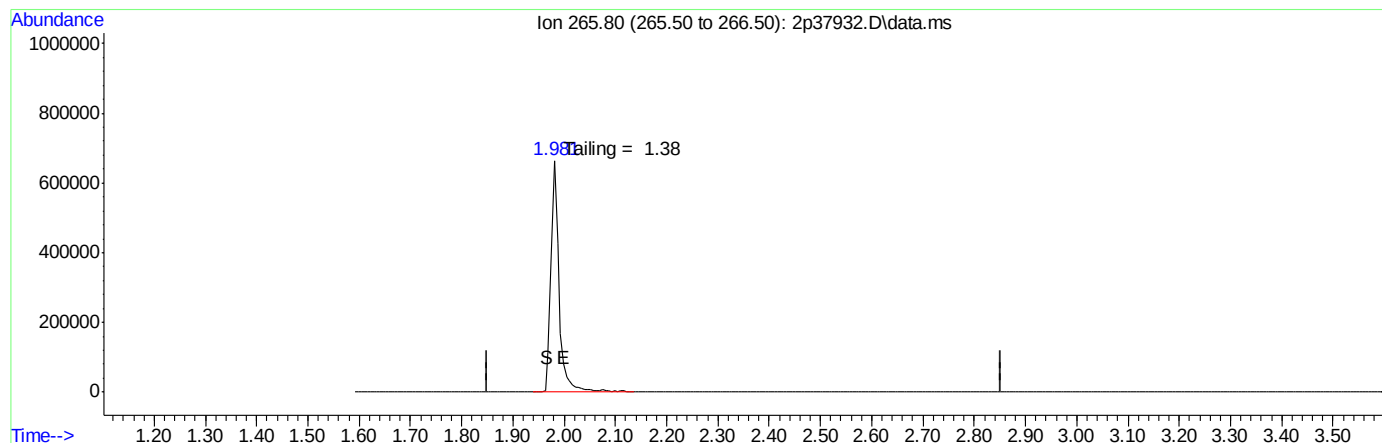
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
381.60	85	400.90	515	423.95	3239	444.95	724
382.75	644	401.40	187	424.95	733		
383.05	1084	401.95	2356	435.25	278		
383.85	895	403.05	3207	438.20	116		
385.00	251	403.90	775	438.90	198		
389.20	95	404.10	668	439.20	133		
389.95	928	404.80	151	439.40	231		
390.95	465	421.05	3008	441.00	66136		
391.20	291	422.05	2672	442.00	399040		
391.90	136	422.95	19704	443.00	75547		
392.10	275	423.80	633	444.00	6444		

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1583\
Data File : 2p37932.D
Acq On : 27 Jun 2014 10:37 am
Operator : elwiraa
Sample : dftpp
Misc : op75638,e2p1583,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 27 10:41:10 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

2.352min (-2.352) 0.00ppb

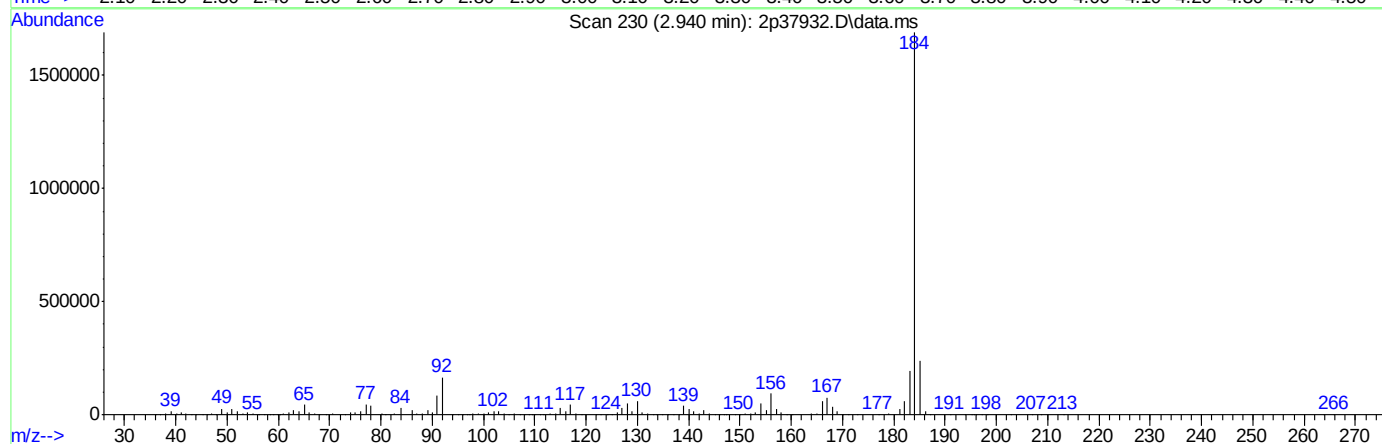
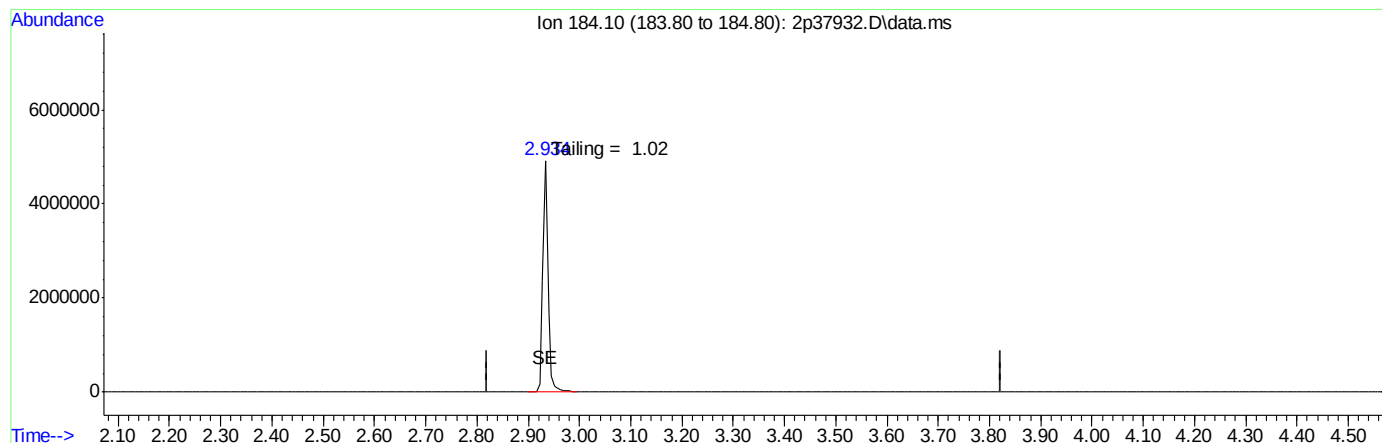
response 0

Ion	Exp%	Act%
265.80	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\2P1583\
Data File : 2p37932.D
Acq On : 27 Jun 2014 10:37 am
Operator : elwiraa
Sample : dftpp
Misc : op75638,e2p1583,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 27 10:41:10 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: 2p37932.D\data.ms

(2) Benzidine

3.322min (-3.322) 0.00ppb

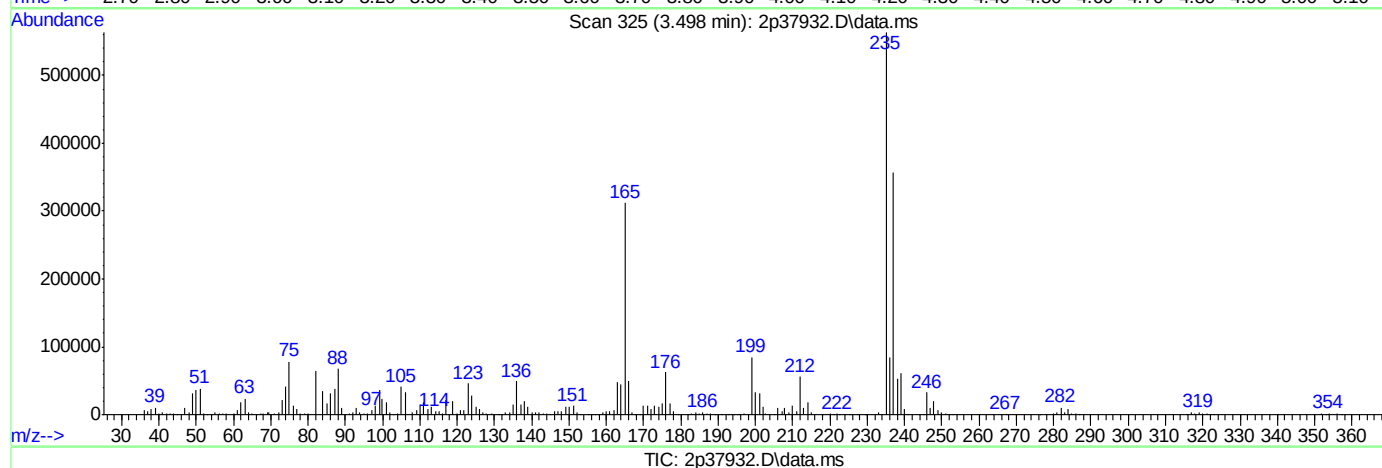
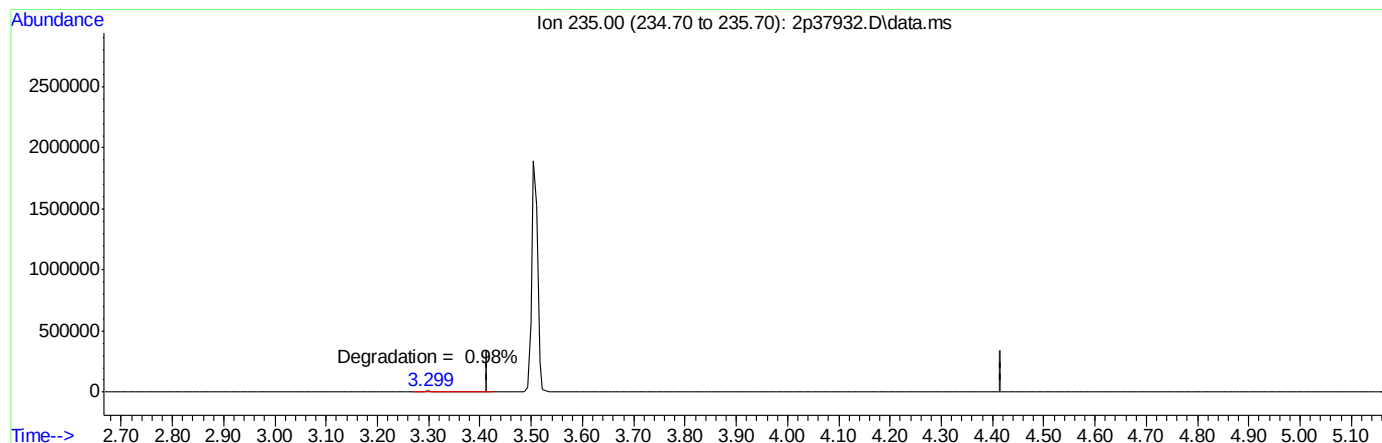
response 0

Ion	Exp%	Act%
184.10	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\2P1583\
Data File : 2p37932.D
Acq On : 27 Jun 2014 10:37 am
Operator : elwiraa
Sample : dftpp
Misc : op75638,e2p1583,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 27 10:41:10 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

3.916min (-3.916) 0.00ppb

response 0

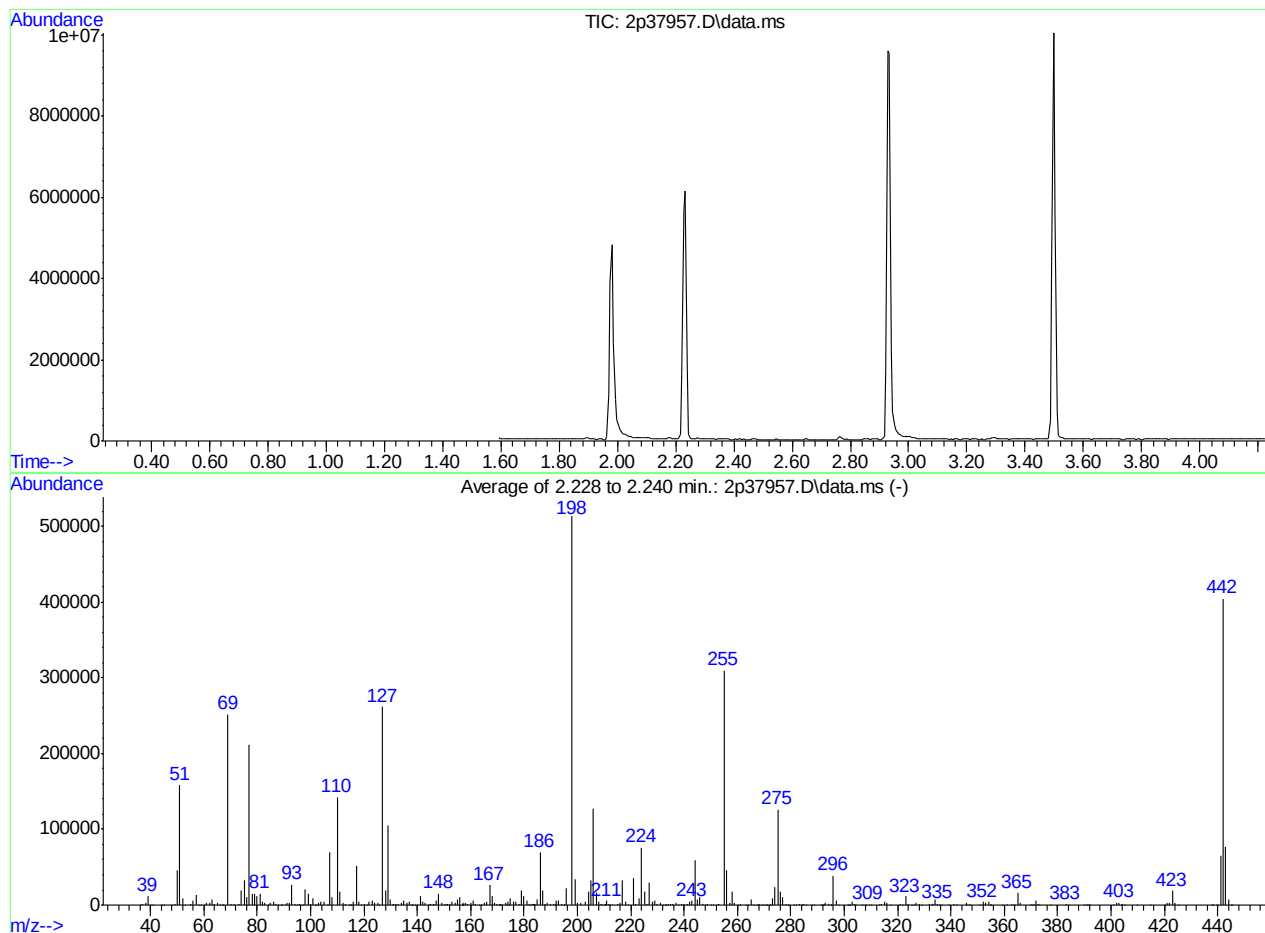
Ion	Exp%	Act%
235.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

DFTPP

Data File : C:\msdchem\1\DATA\2P1583\2p37957.D
 Acq On : 27 Jun 2014 3:27 pm
 Sample : dftpp
 Misc : op75638,e2p1584,
 MS Integration Params: events.e

Vial: 1
 Operator: elwiraa
 Inst : MS2P
 Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\DFTPP2P.M (ChemStation Integrator)
 Title :



AutoFind: Scans 109, 110, 111; Background Corrected with Scan 105

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	31.0	158879	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	49.2	252187	PASS
70	69	0.00	2	0.5	1371	PASS
127	198	40	60	51.0	261683	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	512917	PASS
199	198	5	9	6.7	34526	PASS
275	198	10	30	24.5	125832	PASS
365	198	1	100	3.1	15675	PASS
441	443	0.01	100	84.6	64955	PASS
442	198	40	100	78.8	404309	PASS
443	442	17	23	19.0	76752	PASS

Average of 2.228 to 2.240 min.: 2p37957.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.90	247	51.00	158879	63.00	7811	74.00	19018
37.00	963	52.00	8832	64.00	1214	75.00	32717
38.00	2434	53.00	333	65.00	3483	76.05	10642
38.95	12587	54.95	1553	65.90	431	77.00	211961
40.00	595	55.95	5434	66.70	95	78.00	14299
40.90	202	57.00	12720	67.20	428	79.00	15308
44.00	661	57.95	617	69.00	252187	80.00	11354
44.95	496	59.00	85	69.95	1371	80.95	15350
48.05	444	60.05	779	71.00	341	82.00	4071
49.00	1471	61.10	2366	71.20	85	82.90	3319
50.00	45979	61.95	2758	72.95	1349	83.90	231

Average of 2.228 to 2.240 min.: 2p37957.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
85.00	2529	95.10	450	103.95	4836	115.05	708
85.90	4309	95.95	1089	105.00	4942	116.00	4032
87.00	2156	96.20	212	106.20	400	117.00	52119
87.90	575	97.00	132	107.00	69330	117.95	4533
88.85	457	98.00	20450	108.00	9991	118.95	399
89.10	95	99.00	15096	110.00	142501	119.95	952
90.20	464	99.95	1385	111.00	18195	121.10	89
91.00	3649	101.00	8949	112.00	2653	122.00	4944
92.00	3656	101.70	388	112.95	1310	123.00	6383
93.00	26750	102.20	121	114.20	136	123.95	3163
93.95	2073	103.00	3636	114.50	158	125.00	2804

Average of 2.228 to 2.240 min.: 2p37957.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
125.70	227	136.00	2672	144.10	262	152.95	4016
127.00	261683	137.00	4072	145.00	871	154.00	2857
128.00	19276	137.60	162	145.80	138	155.00	6908
129.00	104699	137.95	764	146.05	1687	156.00	10679
129.95	7912	138.30	135	146.95	5546	156.70	157
130.80	300	138.85	638	148.00	14871	157.00	2510
131.05	1499	139.90	476	149.00	2632	157.30	187
132.00	1455	141.00	12130	150.10	745	158.05	2367
132.90	874	142.05	3838	150.95	1016	158.90	1904
134.00	2680	143.00	2641	151.45	1874	160.00	3256
135.00	6575	143.90	641	152.10	988	161.00	5747

Average of 2.228 to 2.240 min.: 2p37957.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
161.90	1305	170.95	1091	179.00	19074	187.00	19587
162.85	563	171.20	193	180.00	12062	188.00	1685
163.80	530	172.00	1748	181.00	5777	188.85	2892
164.00	381	172.95	2362	181.95	939	189.85	806
164.90	3703	173.40	141	182.40	464	191.00	2266
166.05	3801	173.90	4578	183.05	909	191.40	181
167.00	25972	174.20	641	183.40	155	192.00	5745
168.00	12364	174.95	9213	183.80	904	193.00	5739
169.00	2531	176.05	4269	184.00	970	194.00	1538
169.90	1147	176.90	4120	185.00	7989	194.80	660
170.50	464	178.05	1136	186.00	69573	195.00	526

Average of 2.228 to 2.240 min.: 2p37957.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
195.95	22867	208.90	1269	217.90	4219	229.95	921
197.90	512917	209.20	119	218.95	377	230.95	2999
198.95	34526	210.00	197	220.95	35687	232.00	497
199.95	2996	210.40	1552	221.90	2177	232.95	449

201.45	2880	210.95	5609	223.00	8941	233.20	268
203.00	4190	211.60	1325	224.00	76235	233.95	1864
204.00	17687	212.10	485	225.00	17474	235.00	2180
205.00	32150	213.00	247	226.00	1592	235.85	1195
206.00	127525	214.95	1232	227.00	29521	237.00	2632
207.00	16391	216.00	2791	228.00	3961	237.90	139
207.95	4075	216.90	32449	228.85	5290	238.90	1349

Average of 2.228 to 2.240 min.: 2p37957.D\data.ms
dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
239.95	927	250.95	521	263.00	108	272.20	509
241.00	1930	251.90	552	263.90	360	273.00	9496
242.00	4789	253.00	1587	265.00	6943	274.00	23377
243.00	5587	255.00	309781	265.80	122	275.00	125832
244.00	59989	255.95	45661	267.20	155	276.00	17722
244.95	7987	257.00	2960	267.90	887	277.00	9763
245.90	10840	258.00	17123	268.80	96	278.00	1413
247.00	2205	258.90	2678	269.85	670	278.85	340
247.95	513	259.90	699	270.70	383	279.10	148
248.90	2170	260.75	393	271.10	324	281.10	113
249.85	561	261.00	150	272.00	346	281.75	196

Average of 2.228 to 2.240 min.: 2p37957.D\data.ms
dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
283.05	1276	292.95	2728	303.85	1385	317.05	505
284.00	583	294.00	923	304.20	204	321.05	1560
284.20	384	294.80	279	306.80	107	321.90	215
284.95	1867	295.00	181	307.90	209	323.00	11710
285.90	200	295.95	38584	308.10	327	324.00	2170
287.95	250	296.90	5612	309.10	524	325.20	94
288.80	649	297.95	407	309.90	351	325.90	129
291.15	580	301.05	714	312.90	335	326.90	2360
291.60	94	301.85	748	313.90	1740	328.00	852
292.00	405	302.10	157	314.95	4251	329.10	234
292.30	224	303.00	4033	315.95	2755	331.95	1071

Average of 2.228 to 2.240 min.: 2p37957.D\data.ms
dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
332.70	253	346.00	2931	362.50	89	373.10	701
333.00	882	346.75	571	363.40	113	377.20	93
334.00	7948	347.10	97	364.00	484	383.00	1458
334.95	1960	351.00	273	364.95	15675	383.90	330
335.70	118	352.00	4422	365.90	2521	389.95	649
335.90	87	352.90	2528	369.60	224	390.80	483
336.40	100	354.00	3782	370.10	192	391.00	137
339.10	107	354.60	133	370.80	390	391.70	182
341.05	1911	354.95	484	370.95	537	392.00	171
341.95	565	359.05	253	371.95	5904	401.00	219
345.60	297	361.00	127	372.85	833	402.05	2502

Average of 2.228 to 2.240 min.: 2p37957.D\data.ms
dftpp

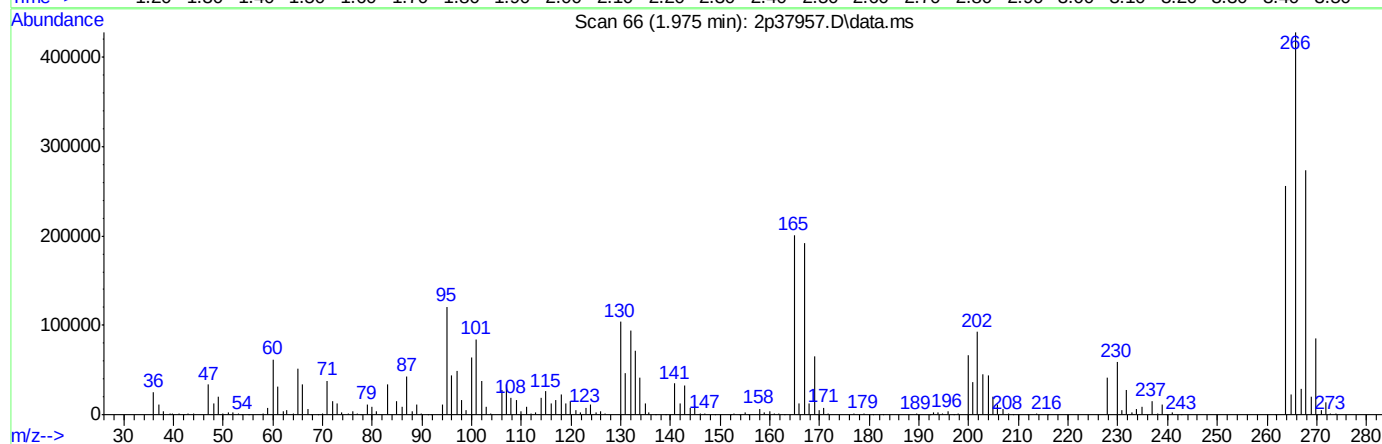
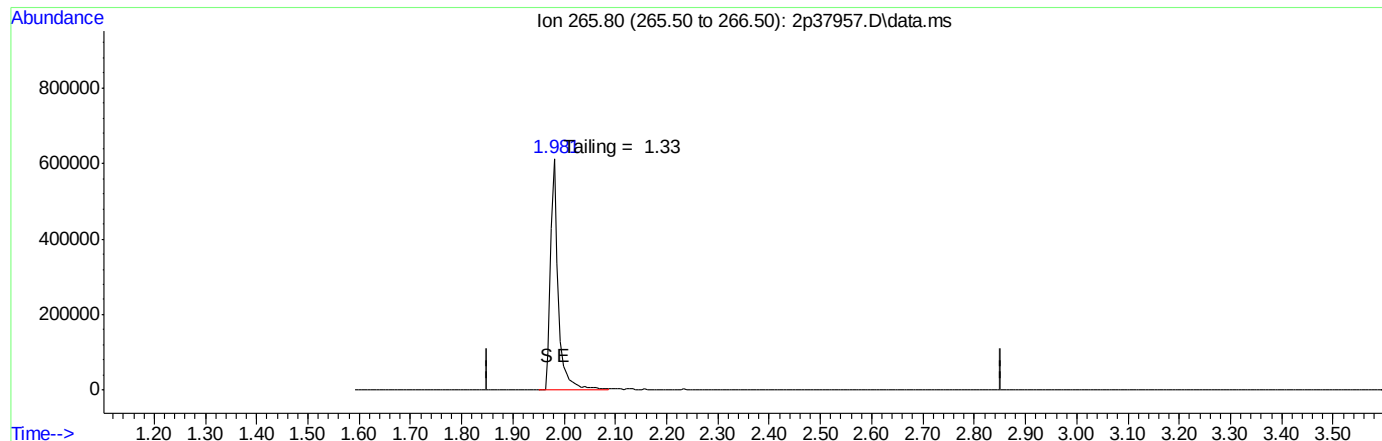
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
403.00	3638	425.10	319				
403.70	317	438.00	236				
404.05	1232	438.40	366				
405.00	164	439.30	251				
409.80	91	439.80	230				
414.70	131	441.00	64955				
420.00	103	442.00	404309				
420.95	2897	443.00	76752				
422.00	2735	444.00	7526				
423.00	19047	444.90	148				
424.05	3469	445.20	259				

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1583\
Data File : 2p37957.D
Acq On : 27 Jun 2014 3:27 pm
Operator : elwiraa
Sample : dftpp
Misc : op75638,e2p1584,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 27 15:31:22 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

2.352min (-2.352) 0.00ppb

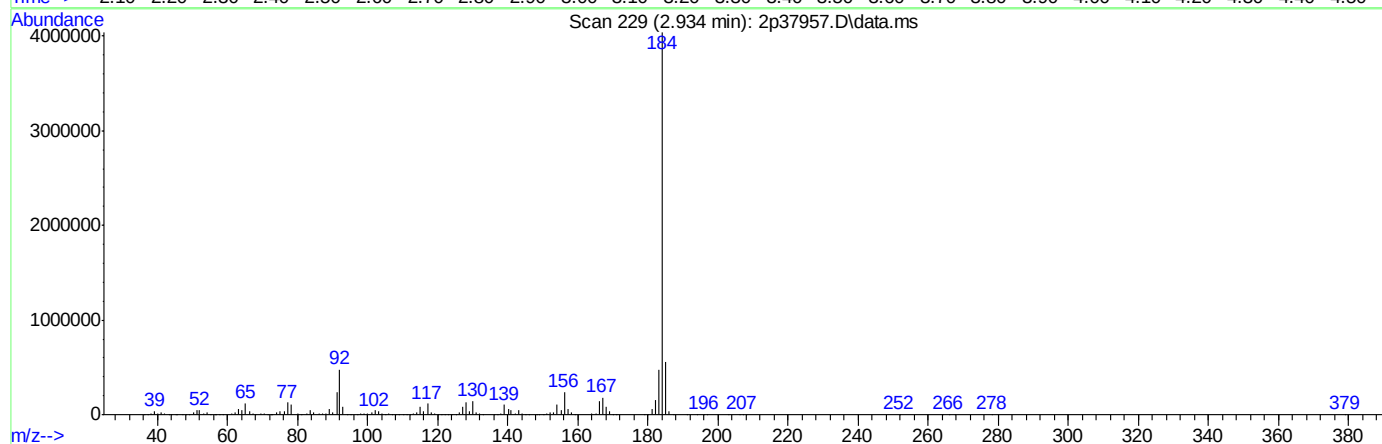
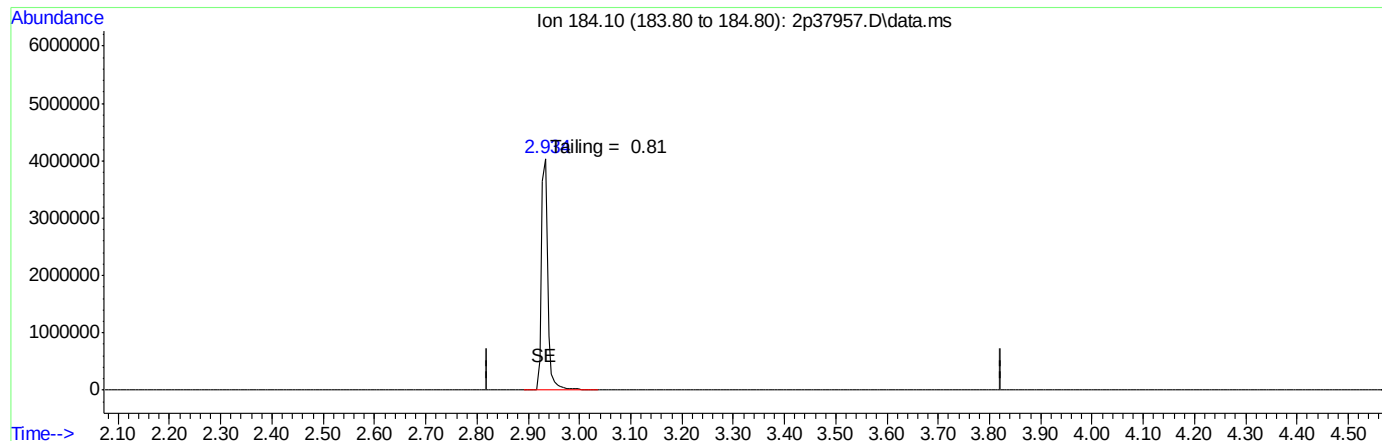
response 0

Ion	Exp%	Act%
265.80	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\2P1583\
Data File : 2p37957.D
Acq On : 27 Jun 2014 3:27 pm
Operator : elwiraa
Sample : dftpp
Misc : op75638,e2p1584,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 27 15:31:22 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: 2p37957.D\data.ms

(2) Benzidine

3.322min (-3.322) 0.00ppb

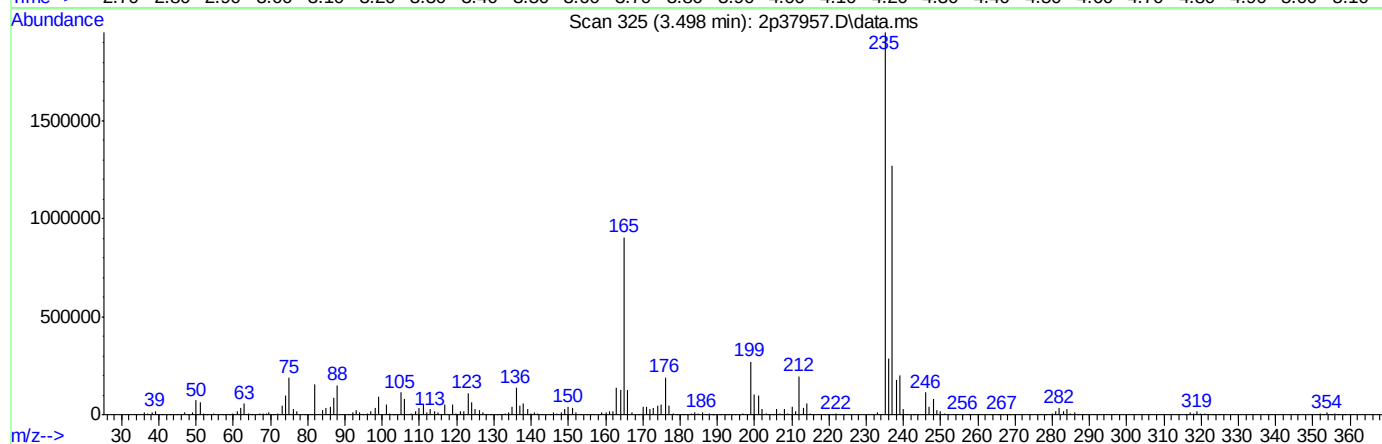
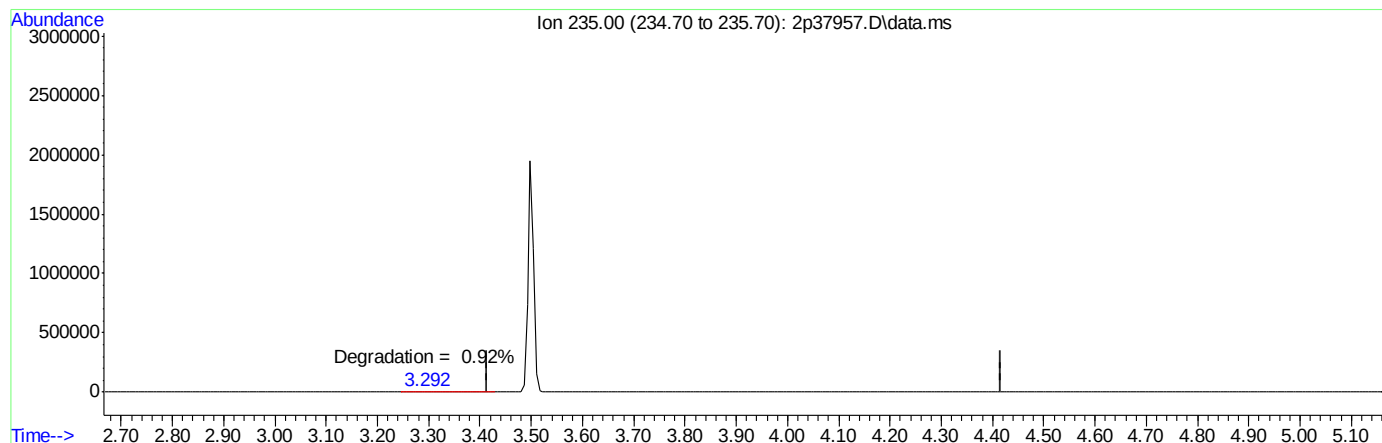
response 0

Ion	Exp%	Act%
184.10	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\2P1583\
Data File : 2p37957.D
Acq On : 27 Jun 2014 3:27 pm
Operator : elwiraa
Sample : dftpp
Misc : op75638,e2p1584,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 27 15:31:22 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

3.916min (-3.916) 0.00ppb

response 0

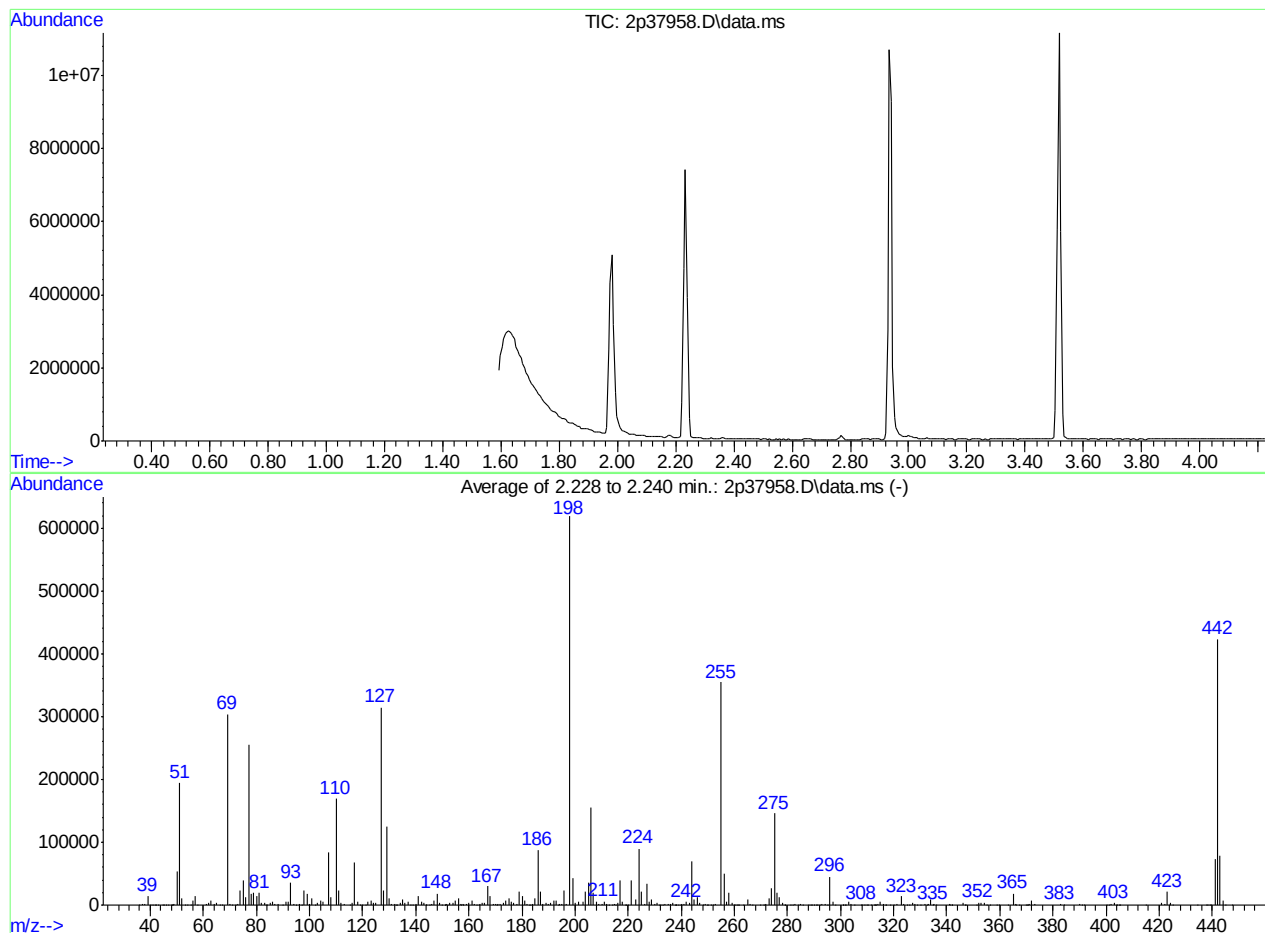
Ion	Exp%	Act%
235.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

DFTPP

Data File : C:\msdchem\1\DATA\2P1585\2p37958.D
 Acq On : 30 Jun 2014 9:10 am
 Sample : dftpp
 Misc : op75638,e2p1585,
 MS Integration Params: events.e

Vial: 1
 Operator: elwiraa
 Inst : MS2P
 Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\DFTPP2P.M (ChemStation Integrator)
 Title :



AutoFind: Scans 109, 110, 111; Background Corrected with Scan 97

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	31.3	193799	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	49.1	303830	PASS
70	69	0.00	2	0.4	1271	PASS
127	198	40	60	50.9	314575	PASS
197	198	0.00	1	0.3	1863	PASS
198	198	100	100	100.0	618624	PASS
199	198	5	9	6.9	42707	PASS
275	198	10	30	23.5	145672	PASS
365	198	1	100	3.0	18280	PASS
441	443	0.01	100	94.3	74088	PASS
442	198	40	100	68.5	423787	PASS
443	442	17	23	18.5	78565	PASS

Average of 2.228 to 2.240 min.: 2p37958.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	63	46.10	88	55.05	538	69.00	303830
37.00	1295	46.75	306	55.95	6560	70.00	1271
38.00	1991	47.90	135	57.00	14179	71.00	52
39.05	14473	48.10	215	57.95	766	71.90	110
40.00	565	48.40	135	61.05	2512	73.05	1627
41.00	671	49.00	2167	61.95	2764	73.95	23867
41.80	122	50.05	53167	62.95	8045	75.00	39955
42.00	91	51.05	193799	63.95	1075	76.10	13006
43.05	458	52.05	10268	65.05	3787	77.00	255477
44.80	182	53.05	831	66.00	430	78.00	18188
45.00	171	53.95	229	67.00	535	78.95	19288

Average of 2.228 to 2.240 min.: 2p37958.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
80.00	14519	91.00	4762	102.10	278	116.05	3877
81.00	19601	92.05	4772	102.90	3849	116.95	67870
82.00	3895	92.95	34971	104.00	6827	117.95	4815
83.00	3551	93.95	1777	104.95	5764	119.10	323
83.70	266	94.90	418	106.95	84180	119.90	816
84.00	167	96.00	1052	108.00	11974	121.10	160
85.05	3092	97.05	792	110.00	169294	121.95	5548
85.95	5829	98.00	23395	111.00	23965	123.00	7830
86.95	2474	99.00	18501	112.00	3747	124.00	3538
87.95	1404	99.95	1516	112.95	1056	125.00	4166
89.90	125	101.00	10538	115.00	354	127.00	314575

Average of 2.228 to 2.240 min.: 2p37958.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
128.00	23946	137.90	82	148.00	18052	156.90	366
129.00	124520	139.00	608	148.95	2952	157.15	1643
129.95	10618	139.95	2299	150.00	611	157.80	610
131.00	1596	140.95	14266	151.00	290	157.95	1747
131.95	1475	142.05	5132	151.20	413	159.00	1827
132.70	496	143.00	3300	151.50	1305	159.95	4423
132.90	84	143.80	406	151.95	9	161.05	7297
134.00	3650	144.00	389	152.95	4500	161.95	1992
135.00	8674	145.00	884	153.95	3365	163.05	297
135.95	3436	145.95	2458	155.00	7505	163.80	245
137.00	4707	147.00	7671	156.00	11344	164.10	1449

Average of 2.228 to 2.240 min.: 2p37958.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
164.95	3749	175.00	10137	185.05	9921	194.95	1223
165.90	3595	175.90	5183	186.00	88045	196.00	23645
166.95	29953	177.00	4510	186.95	21623	196.80	1863
168.00	13690	178.05	1705	188.00	2265	197.90	618624
169.05	2295	178.90	21453	189.00	4341	199.00	42707
170.05	1824	180.00	13678	189.95	1325	199.90	3085
170.70	413	181.00	7178	190.95	2825	201.45	4909
171.05	1089	181.90	1101	191.90	7219	202.90	4625
171.95	2036	182.70	250	192.95	7465	203.95	21467
173.00	3098	183.00	442	193.90	457	205.00	36295
173.95	6602	183.90	1411	194.10	1248	205.95	155314

Average of 2.228 to 2.240 min.: 2p37958.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
207.00	20078	216.95	38848	227.95	5783	237.60	200
208.00	4554	217.95	4804	228.95	8187	237.90	132
209.00	1600	218.90	554	229.95	1111	238.10	227
210.00	983	219.20	246	230.95	3407	239.00	794

210.90	6280	219.80	694	231.70	209	239.90	429
212.00	1298	220.95	39597	232.00	725	240.05	1018
212.85	552	222.95	9353	232.90	550	241.05	1969
213.95	295	224.00	89659	234.00	2531	242.00	4875
214.95	1204	225.00	21704	234.95	2643	243.05	4127
215.20	362	226.05	2202	235.90	1560	244.00	70246
216.05	2935	227.00	34869	236.95	2784	245.00	9055

Average of 2.228 to 2.240 min.: 2p37958.D\data.ms
dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
246.00	12563	257.05	4566	266.70	112	278.80	21
246.90	3390	257.95	19789	269.85	212	279.05	416
248.00	821	258.95	4015	270.85	594	281.00	190
249.05	2451	259.90	3	271.20	150	281.90	540
249.80	168	260.20	307	272.00	1214	283.00	1499
250.05	437	260.90	214	272.95	10480	283.95	786
250.95	750	261.30	213	274.00	26208	285.05	2571
252.00	688	261.85	213	275.00	145672	285.95	530
253.00	1559	263.30	139	276.00	19017	287.90	421
255.00	354688	264.95	8393	277.00	12981	288.85	516
256.00	49819	266.00	1043	277.95	3003	289.15	438

Average of 2.228 to 2.240 min.: 2p37958.D\data.ms
dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
290.05	699	301.10	201	311.45	208	319.80	109
290.90	182	301.80	150	312.60	88	321.10	1703
291.40	165	302.00	800	312.80	161	322.95	13764
291.90	496	303.00	5236	313.10	235	323.95	2642
292.95	2642	303.95	1416	313.40	233	325.05	692
294.00	964	305.00	262	314.05	2435	325.90	348
294.90	493	307.85	288	314.95	4603	326.95	2999
296.00	44717	308.10	471	316.05	2484	327.95	1397
296.95	6119	309.10	377	316.95	446	329.00	580
298.00	350	309.95	324	317.20	197	329.90	137
300.85	474	310.25	282	318.90	102	331.90	980

Average of 2.228 to 2.240 min.: 2p37958.D\data.ms
dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
332.70	180	346.80	150	364.95	18280	383.95	438
333.00	1133	346.95	783	365.90	2024	389.95	1020
334.05	9114	351.00	222	366.10	877	391.05	728
334.90	695	352.05	4257	367.10	216	391.80	103
335.05	1416	353.00	3002	369.70	104	400.30	105
335.90	161	354.05	3317	370.05	274	401.00	325
340.90	241	354.90	761	370.50	146	401.95	2657
341.05	1152	356.10	108	371.10	968	403.00	3380
341.75	370	358.70	114	372.00	6518	403.85	593
342.00	208	359.80	114	373.05	1652	404.10	551
345.95	3780	363.10	139	382.85	1542	404.90	178

Average of 2.228 to 2.240 min.: 2p37958.D\data.ms
dftpp

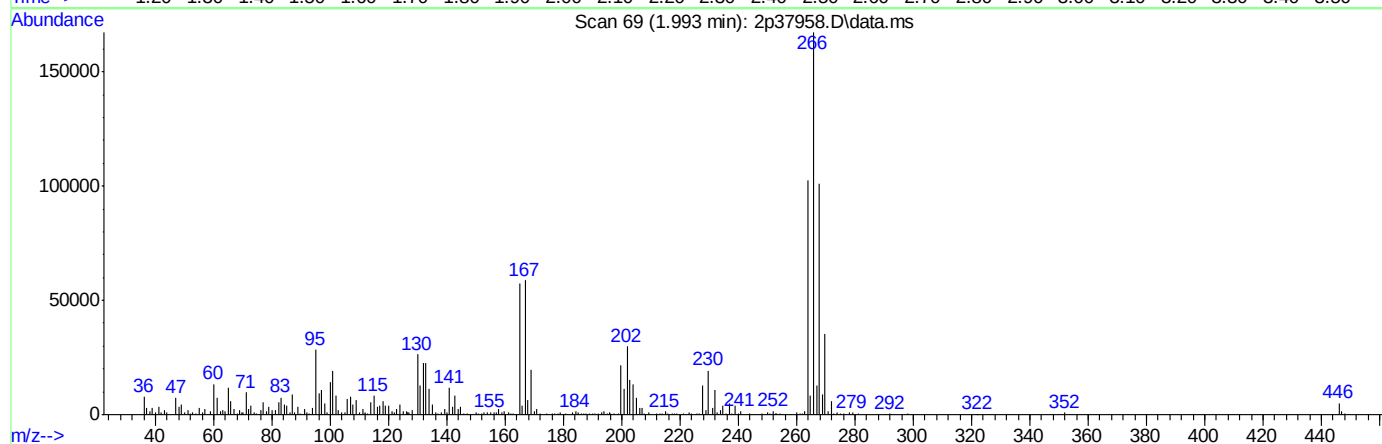
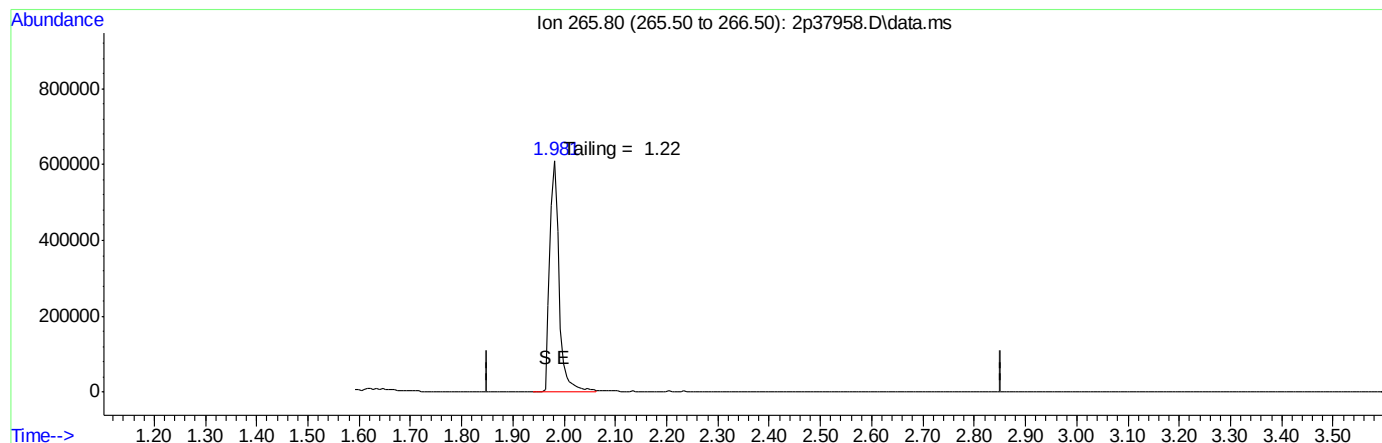
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
405.20	95	438.85	444				
415.10	151	439.65	596				
420.90	3137	441.05	74088				
422.05	2487	442.00	423787				
423.05	20719	443.00	78565				
423.90	479	444.00	7550				
424.05	3035	445.05	279				
424.95	276	447.30	406				
434.50	128						
437.90	170						
438.15	335						

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1585\
Data File : 2p37958.D
Acq On : 30 Jun 2014 9:10 am
Operator : elwiraa
Sample : dftpp
Misc : op75638,e2p1585,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 30 09:13:51 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

2.352min (-2.352) 0.00ppb

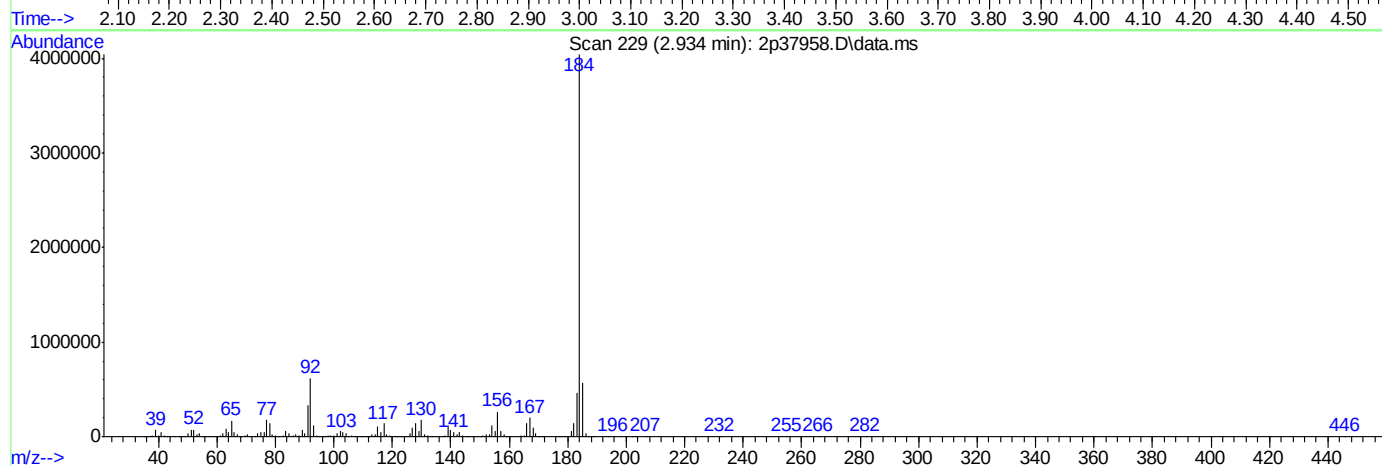
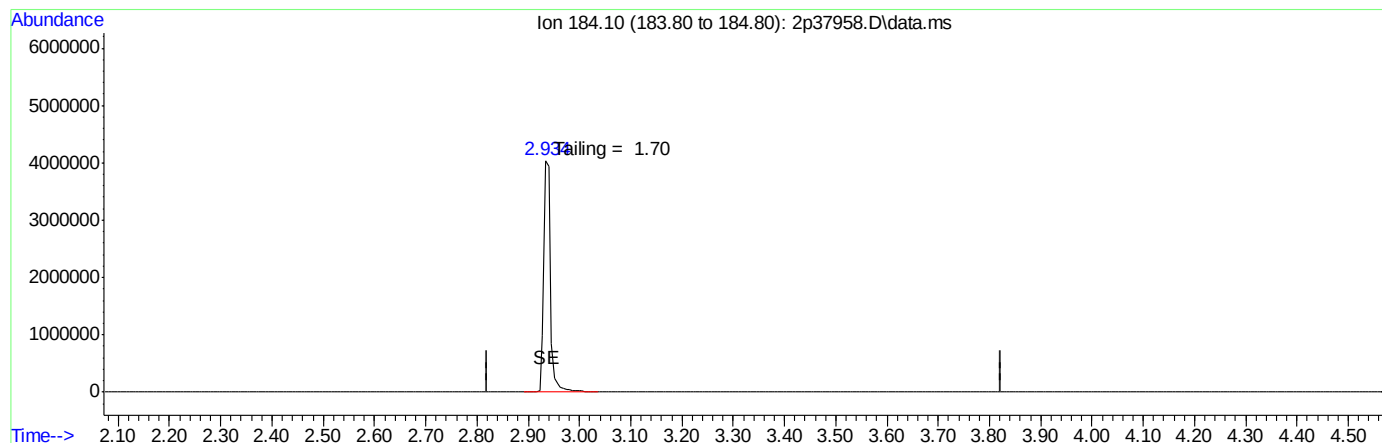
response 0

Ion	Exp%	Act%
265.80	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\2P1585\
Data File : 2p37958.D
Acq On : 30 Jun 2014 9:10 am
Operator : elwiraa
Sample : dftpp
Misc : op75638,e2p1585,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 30 09:13:51 2014
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP2P.M
Quant Title :
QLast Update : Thu May 29 09:05:38 2014
Response via : Initial Calibration



(2) Benzidine

3.322min (-3.322) 0.00ppb

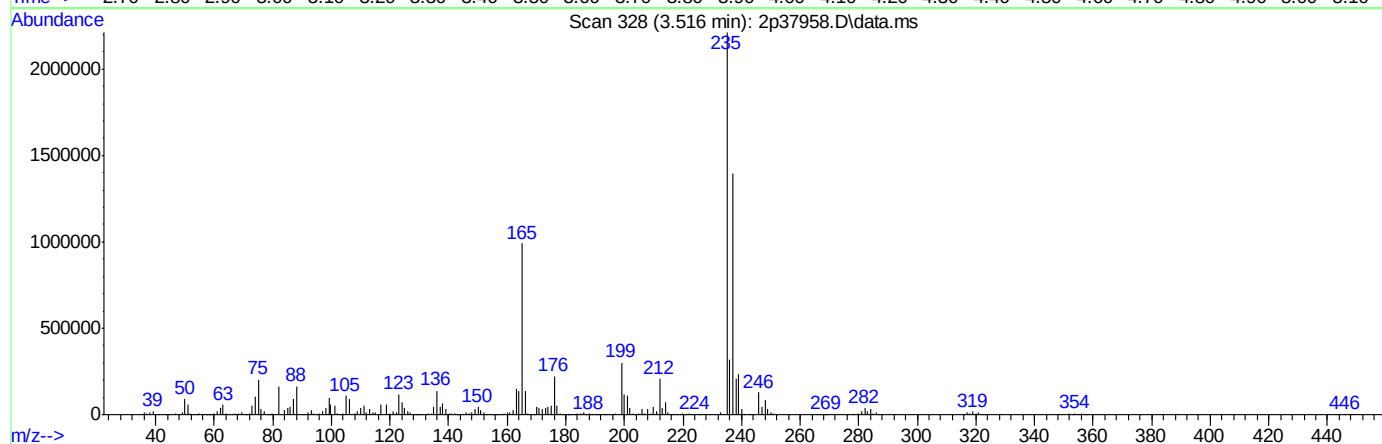
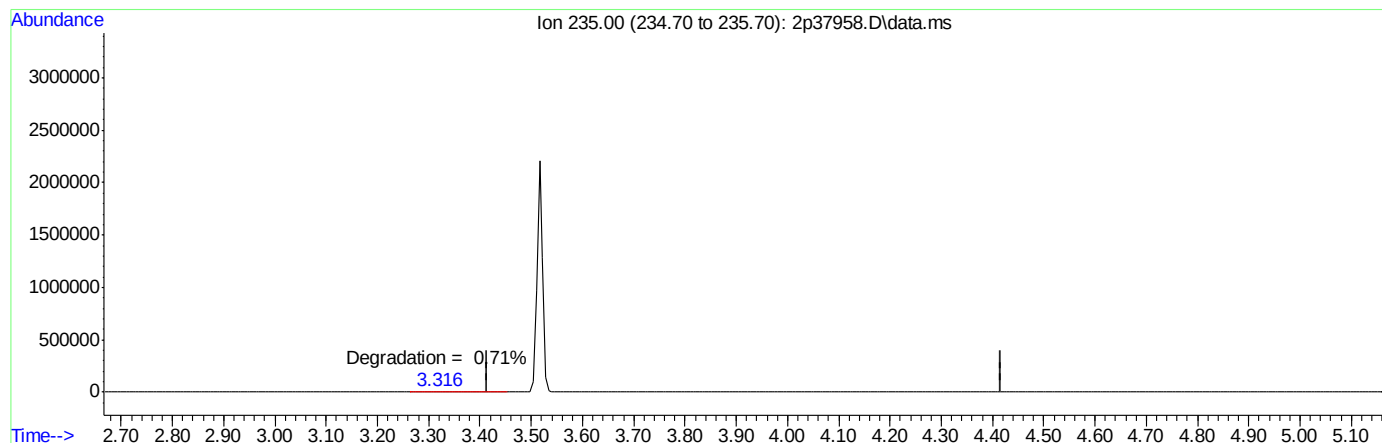
response 0

Ion	Exp%	Act%
184.10	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\2P1585\
Data File : 2p37958.D
Acq On : 30 Jun 2014 9:10 am
Operator : elwiraa
Sample : dftpp
Misc : op75638,e2p1585,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 30 09:13:51 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: 2p37958.D\data.ms

(3) PP-DDT

3.916min (-3.916) 0.00ppb

response 0

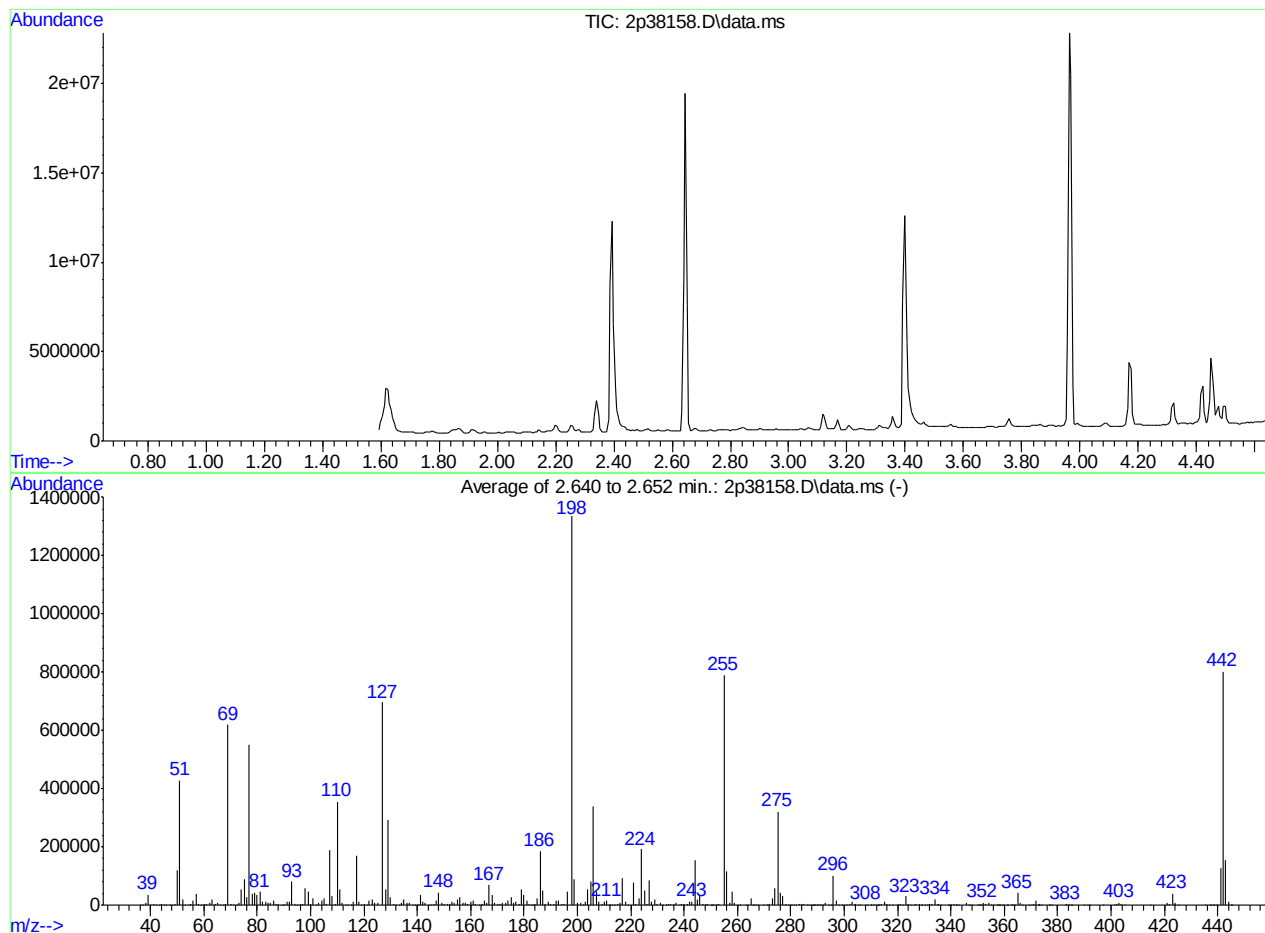
Ion	Exp%	Act%
235.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

DFTPP

Data File : C:\msdchem\1\DATA\2P1594\2p38158.D
 Acq On : 5 Jul 2014 11:27 am
 Sample : dftpp
 Misc : op75909,e2p1594,
 MS Integration Params: events.e

Vial: 1
 Operator: andrews1
 Inst : MS2P
 Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\DFTPP2P.M (ChemStation Integrator)
 Title :



AutoFind: Scans 179, 180, 181; Background Corrected with Scan 173

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	32.1	427779	PASS
68	69	0.00	2	0.9	5382	PASS
69	198	0.00	100	46.3	618009	PASS
70	69	0.00	2	0.7	4441	PASS
127	198	40	60	52.2	696579	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	1334251	PASS
199	198	5	9	6.7	89536	PASS
275	198	10	30	24.0	320469	PASS
365	198	1	100	3.1	41707	PASS
441	443	0.01	100	82.6	128251	PASS
442	198	40	100	60.1	802112	PASS
443	442	17	23	19.4	155296	PASS

Average of 2.640 to 2.652 min.: 2p38158.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.90	725	46.95	1174	58.05	2419	69.00	618009
37.00	788	48.00	1944	59.00	681	70.00	4441
38.00	6006	49.00	4816	60.00	2701	71.00	2028
39.00	35002	50.00	120369	60.95	5889	72.10	999
40.00	609	51.00	427779	62.00	6724	73.00	6990
41.00	3250	52.00	20645	63.05	18883	74.00	55188
42.00	207	53.05	1760	64.05	2489	75.00	88379
43.10	1313	54.10	63	65.00	9516	76.05	26818
43.95	2988	55.00	4383	66.00	1365	77.00	551379
45.00	1405	56.00	14895	67.00	354	78.00	38155
45.95	373	57.00	39288	68.10	5382	79.00	41602

Average of 2.640 to 2.652 min.: 2p38158.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
80.00	33195	89.90	575	101.00	22955	111.95	7137
81.00	45577	91.00	11572	102.00	1193	113.00	1150
82.00	10395	92.00	10706	103.00	9159	114.05	1527
83.05	11472	93.00	79292	104.00	15647	114.95	766
83.90	9411	94.00	4878	105.00	22426	116.00	10976
85.00	8121	95.00	828	106.05	4666	117.00	170746
85.90	17427	96.00	4740	107.00	189072	118.00	11343
86.95	5876	97.05	2753	108.00	29284	118.90	1419
87.90	3766	98.00	57731	109.10	4641	120.00	2368
89.00	579	99.00	46598	110.00	355454	121.00	2011
89.70	107	99.95	3255	111.00	54465	121.95	13720

Average of 2.640 to 2.652 min.: 2p38158.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
123.00	19858	135.00	20882	145.00	1330	156.00	26571
123.95	8870	136.00	8863	146.00	4721	157.00	6953
125.00	8612	137.05	9744	147.00	13924	157.95	6969
126.95	696579	138.05	1725	148.00	43908	158.95	4537
128.00	52568	139.00	1409	148.95	9317	159.95	10354
129.00	292895	139.95	1337	150.05	2458	160.95	15792
129.95	26868	140.20	956	151.05	4941	161.95	4978
130.95	5019	141.00	34466	151.95	2568	163.05	1249
131.95	1733	141.95	11218	153.00	10463	163.90	841
133.05	284	143.00	8222	153.95	8076	164.10	2120
134.00	8362	144.00	1786	155.00	18943	165.00	14176

Average of 2.640 to 2.652 min.: 2p38158.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
166.00	9584	177.00	10725	187.00	50526	198.90	89536
166.95	69263	178.00	4530	187.95	5039	200.00	7337
168.00	33553	179.00	52577	188.95	11719	201.45	7802
169.00	6545	179.95	35195	190.00	2335	202.15	429
170.00	2975	181.00	15173	191.05	5505	203.00	11100
170.95	2633	182.00	2607	191.95	14646	203.95	52429
171.95	7700	182.80	656	192.95	17249	205.00	82221
172.95	8431	183.00	935	194.00	3316	205.95	339021
174.00	13807	183.95	4184	195.00	2141	207.00	45329
175.00	26990	184.95	24126	196.00	47339	208.00	11618
176.00	8271	186.00	184876	197.90	1.33425e+006	209.05	4177

Average of 2.640 to 2.652 min.: 2p38158.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
210.10	9884	220.95	78023	232.10	1250	243.00	12034
211.00	15136	221.90	2524	233.05	1223	244.00	154829
211.70	787	223.00	23609	233.95	5751	245.00	20400
212.05	1307	223.95	191487	234.90	5711	245.95	31117

212.95	1760	225.00	49733	235.95	4237	247.00	5312
214.00	522	226.00	5909	237.05	6662	247.70	191
214.95	3288	227.00	83917	238.05	1217	247.95	1593
215.95	7736	227.90	11693	239.00	3677	248.90	4838
216.95	92495	229.00	19039	239.95	2688	250.00	855
218.00	11948	230.00	2348	241.00	5047	250.40	202
218.95	1379	230.95	6477	242.00	11338	251.00	669

Average of 2.640 to 2.652 min.: 2p38158.D\data.ms
dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
251.80	332	263.70	887	275.00	320469	285.00	4606
252.05	1223	265.00	21556	276.00	42133	286.00	1409
253.00	4052	265.80	1716	277.00	29181	286.90	88
255.00	790187	265.90	473	278.00	5007	287.90	196
256.00	116235	266.95	1051	278.95	1413	288.05	452
257.00	9135	267.80	488	279.80	228	288.80	831
258.00	46669	269.85	1483	280.05	335	289.10	262
258.95	7220	270.95	1512	281.00	742	289.80	399
259.90	772	272.05	2409	281.95	832	290.10	999
260.95	622	273.00	22981	283.00	3072	290.95	519
263.00	174	274.00	59208	284.05	2424	291.30	178

Average of 2.640 to 2.652 min.: 2p38158.D\data.ms
dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
292.05	1556	303.00	11429	312.40	166	322.00	1614
293.00	7448	303.90	478	312.60	315	323.00	29234
294.00	1885	304.10	2750	313.05	802	324.00	5582
294.90	467	304.95	466	314.05	4130	324.95	966
296.00	102083	305.85	298	315.00	11010	325.90	887
296.95	13868	308.00	1714	316.00	5217	326.90	5378
297.95	1630	308.90	803	317.00	1095	327.95	3045
299.10	380	309.90	334	318.00	217	328.80	413
300.20	107	310.15	958	319.90	145	329.10	438
300.95	1319	311.00	172	320.15	389	330.10	90
302.05	2172	311.90	304	321.00	3298	331.10	119

Average of 2.640 to 2.652 min.: 2p38158.D\data.ms
dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
331.95	2387	341.90	723	352.00	8417	360.80	92
332.95	3042	342.15	152	353.00	5596	361.25	257
334.05	20019	343.00	175	354.00	7747	362.80	130
334.90	764	345.95	8349	355.05	1557	363.10	90
335.10	4037	346.60	353	355.80	292	363.50	158
336.05	984	346.90	839	357.15	261	363.90	93
338.90	201	347.90	131	357.40	168	365.00	41707
339.10	282	349.80	153	357.90	92	366.00	6410
339.80	174	350.60	90	358.20	92	366.90	421
340.05	604	351.00	357	359.05	640	369.40	110
341.00	3570	351.20	285	359.80	134	370.10	1134

Average of 2.640 to 2.652 min.: 2p38158.D\data.ms
dftpp

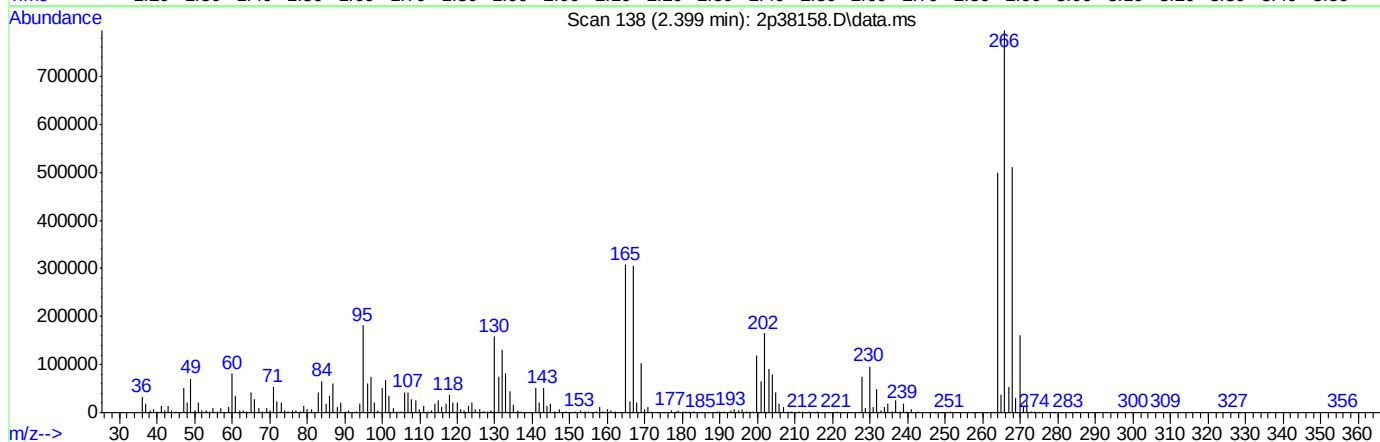
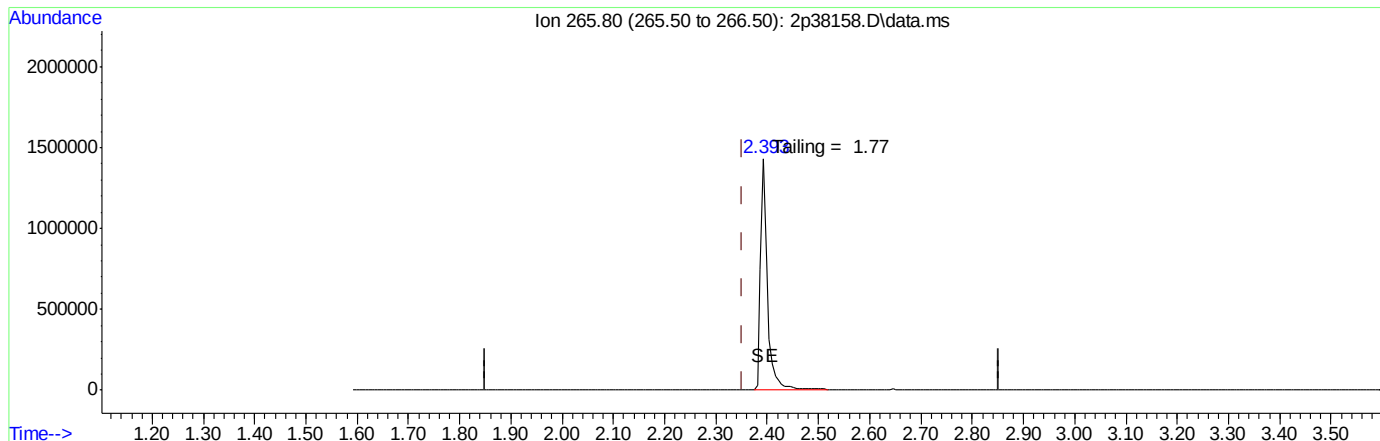
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
370.95	2081	383.90	703	403.95	2534	437.50	152
372.00	15331	384.10	522	405.05	414	438.10	419
372.70	224	384.80	206	414.85	255	438.85	366
373.05	2958	385.20	157	421.05	6028	439.55	822
373.30	685	390.05	1861	422.05	5905	440.00	676
373.95	675	391.15	1258	423.00	40424	441.00	128251
376.80	257	391.95	657	423.80	424	442.00	802112
377.10	233	397.20	89	424.00	7065	443.00	155296
377.90	200	401.15	950	425.05	938	444.05	13273
383.00	3648	402.05	4819	435.50	144	444.80	224
383.20	358	403.00	8123	436.85	308	445.20	118

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1594\
Data File : 2p38158.D
Acq On : 5 Jul 2014 11:27 am
Operator : andrews1
Sample : dftpp
Misc : op75909,e2p1594,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 05 11:31:26 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

2.396min (+0.044) 280.49ppb

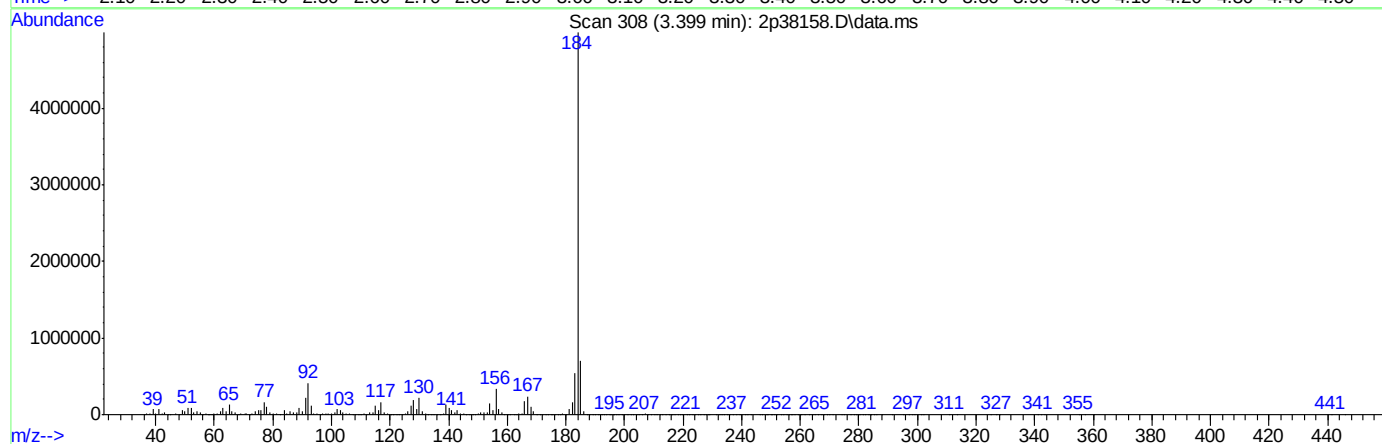
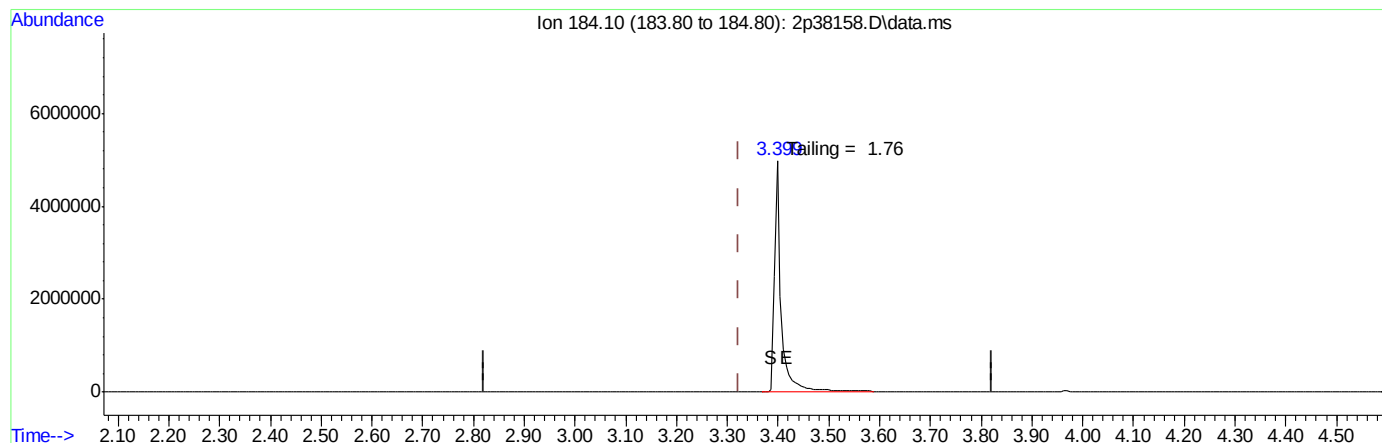
response 13333031

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\2P1594\
Data File : 2p38158.D
Acq On : 5 Jul 2014 11:27 am
Operator : andrews1
Sample : dftpp
Misc : op75909,e2p1594,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 05 11:31:26 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: 2p38158.D\data.ms

(2) Benzidine

3.401min (+0.079) 201.11ppb

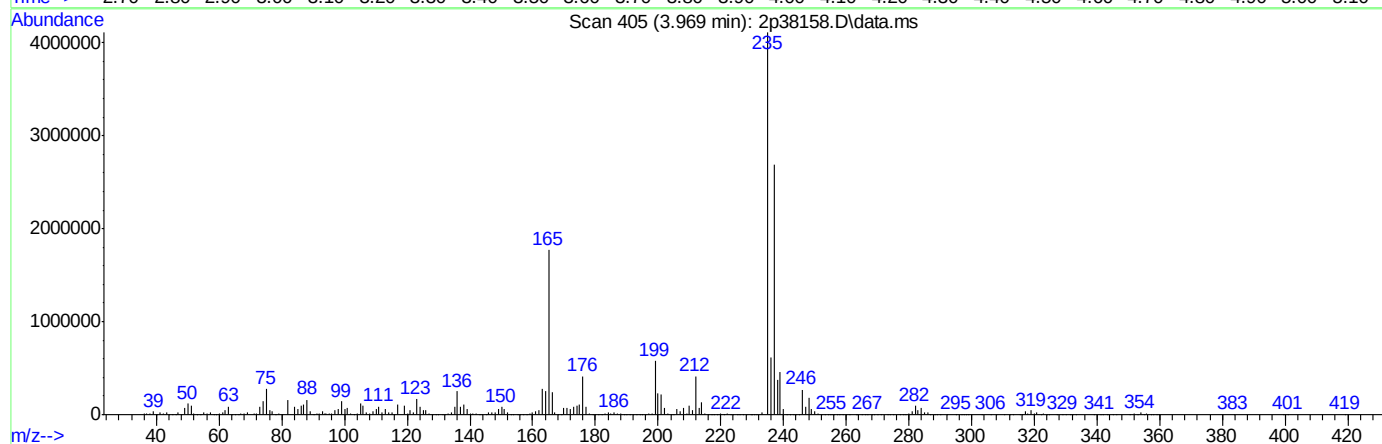
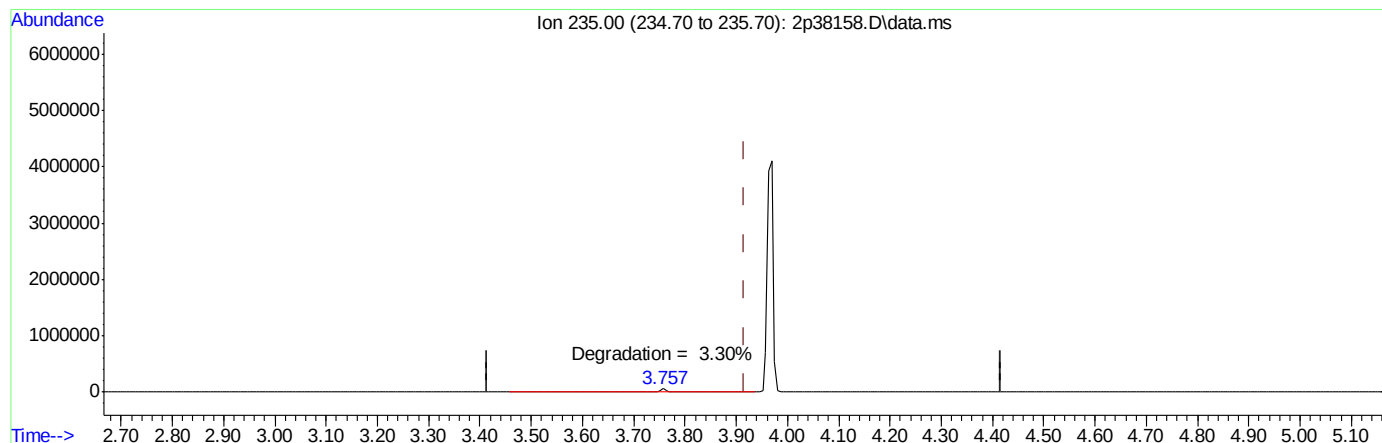
response 45454180

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\2P1594\
Data File : 2p38158.D
Acq On : 5 Jul 2014 11:27 am
Operator : andrews1
Sample : dftpp
Misc : op75909,e2p1594,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 05 11:31:26 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: 2p38158.D\data.ms

(3) PP-DDT

3.969min (+0.053) 351.16ppb

response 33039190

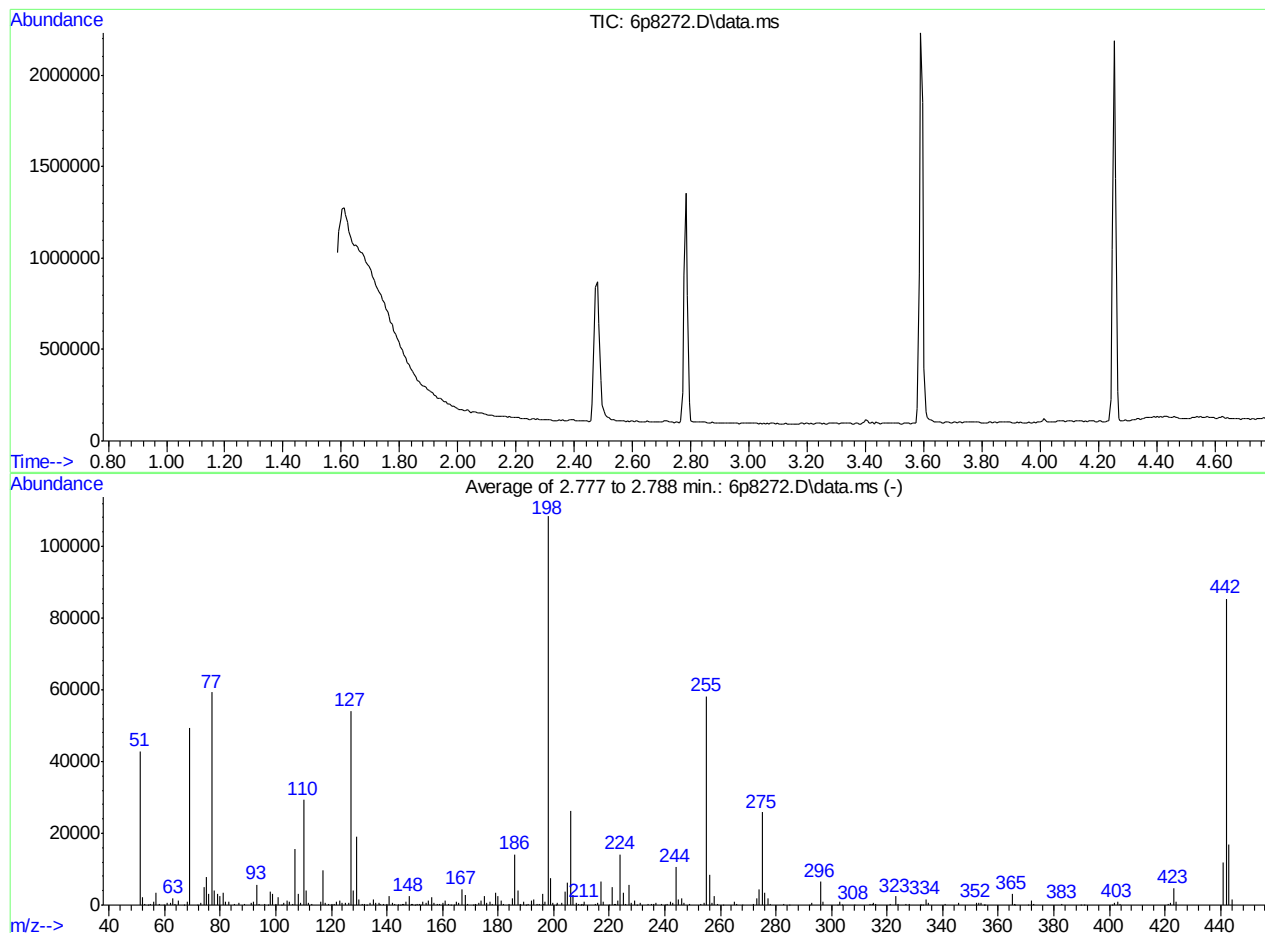
Ion	Exp%	Act%
235.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

DFTPP

Data File : C:\msdchem\1\DATA\6p357\6p8272.D
 Acq On : 26 Jun 2014 2:55 pm
 Sample : dftpp
 Misc : op75816,e6p357
 MS Integration Params: events.e

Vial: 1
 Operator: samtap
 Inst : MS6P
 Multipl: 1.00

Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M (ChemStation Integrator)
 Title : zebron ZB-5msi 30mx0.25mmx0.25um



AutoFind: Scans 209, 210, 211; Background Corrected with Scan 205

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	39.6	42873	PASS
68	69	0.00	2	1.6	807	PASS
69	198	0.00	100	45.5	49257	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	50.0	54181	PASS
197	198	0.00	1	0.8	865	PASS
198	198	100	100	100.0	108309	PASS
199	198	5	9	7.0	7564	PASS
275	198	10	30	23.8	25824	PASS
365	198	1	100	2.8	3072	PASS
441	443	0.01	100	71.6	12025	PASS
442	198	40	100	78.8	85371	PASS
443	442	17	23	19.7	16799	PASS

Average of 2.777 to 2.788 min.: 6p8272.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
51.00	42873	63.00	1937	77.00	59317	91.90	906
51.95	2188	63.90	247	78.00	4135	93.00	5662
52.90	214	65.00	1184	78.95	3017	93.95	239
54.05	15	66.95	136	80.00	2494	96.00	300
55.00	272	68.00	807	80.90	3374	97.00	58
56.00	919	69.00	49257	82.00	920	98.00	3630
57.00	3325	71.80	72	82.95	839	99.00	3087
58.05	234	72.90	582	84.90	357	100.00	356
59.85	26	74.00	4873	86.90	587	100.95	2329
60.95	720	75.00	7786	88.90	196	101.90	105
61.95	707	76.00	3133	91.00	786	102.95	768

Average of 2.777 to 2.788 min.: 6p8272.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
103.90	1209	117.00	9593	128.00	3999	138.90	249
105.00	1019	117.95	737	129.00	19138	140.00	278
105.95	395	118.95	232	129.95	1558	140.90	2367
107.00	15497	120.00	248	130.95	446	141.95	772
108.00	3014	121.00	185	131.95	247	142.95	470
109.05	664	121.95	1014	132.70	68	143.85	161
110.00	29315	123.00	1152	133.95	710	144.10	90
111.00	3925	123.95	528	135.00	1475	144.95	167
111.90	644	124.90	532	135.95	668	145.75	232
113.00	207	126.10	692	137.00	778	146.00	290
116.00	898	127.00	54181	137.70	214	147.00	1089

Average of 2.777 to 2.788 min.: 6p8272.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
148.00	2535	157.00	562	168.00	2699	178.95	3463
148.90	198	158.00	423	169.00	387	180.00	2532
149.05	471	158.95	283	171.10	96	181.00	1112
149.95	161	159.95	668	171.80	230	182.05	308
150.90	394	161.00	1375	172.00	117	183.80	338
151.85	202	161.95	436	172.95	670	185.00	1737
152.10	98	163.00	82	174.00	1120	186.00	14153
152.95	815	164.00	158	175.00	2426	187.00	4048
154.00	564	164.90	1060	175.95	485	187.90	131
155.00	1354	165.90	729	176.90	955	188.05	272
156.00	2139	166.95	4425	177.95	318	189.00	833

Average of 2.777 to 2.788 min.: 6p8272.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
190.00	69	199.85	485	210.30	190	222.95	1336
190.95	406	200.80	104	210.50	108	224.00	14154
191.95	1210	201.45	736	211.00	871	225.00	3364
193.00	1426	202.95	640	214.90	322	225.90	390
194.00	408	204.00	3826	215.90	581	226.95	5781
194.90	297	205.00	6287	216.95	6721	228.00	682
196.00	3038	206.00	26267	217.90	948	228.95	1213
196.60	314	206.95	2884	219.90	107	229.90	67
197.00	865	208.00	488	220.95	5089	230.95	558
197.95	108309	208.90	308	221.80	271	233.95	348
198.90	7564	209.90	111	222.10	230	235.05	307

Average of 2.777 to 2.788 min.: 6p8272.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
235.85	277	248.85	417	268.00	75	292.95	625
236.95	549	252.90	309	271.90	213	296.00	6434
238.90	259	254.05	504	272.95	1931	297.00	822
239.90	88	255.00	58197	273.95	4428	302.10	78

240.95	319	255.95	8443	275.00	25824	302.95	920
241.95	897	256.95	655	276.00	3376	303.80	96
243.00	737	257.95	2603	276.95	1950	308.00	94
244.00	10602	258.95	450	277.95	361	313.95	441
245.00	1547	261.10	73	282.85	220	314.70	184
245.95	1961	264.90	927	284.90	153	314.95	707
246.85	495	265.85	332	292.00	67	315.85	476

Average of 2.777 to 2.788 min.: 6p8272.D\data.ms
dftpp

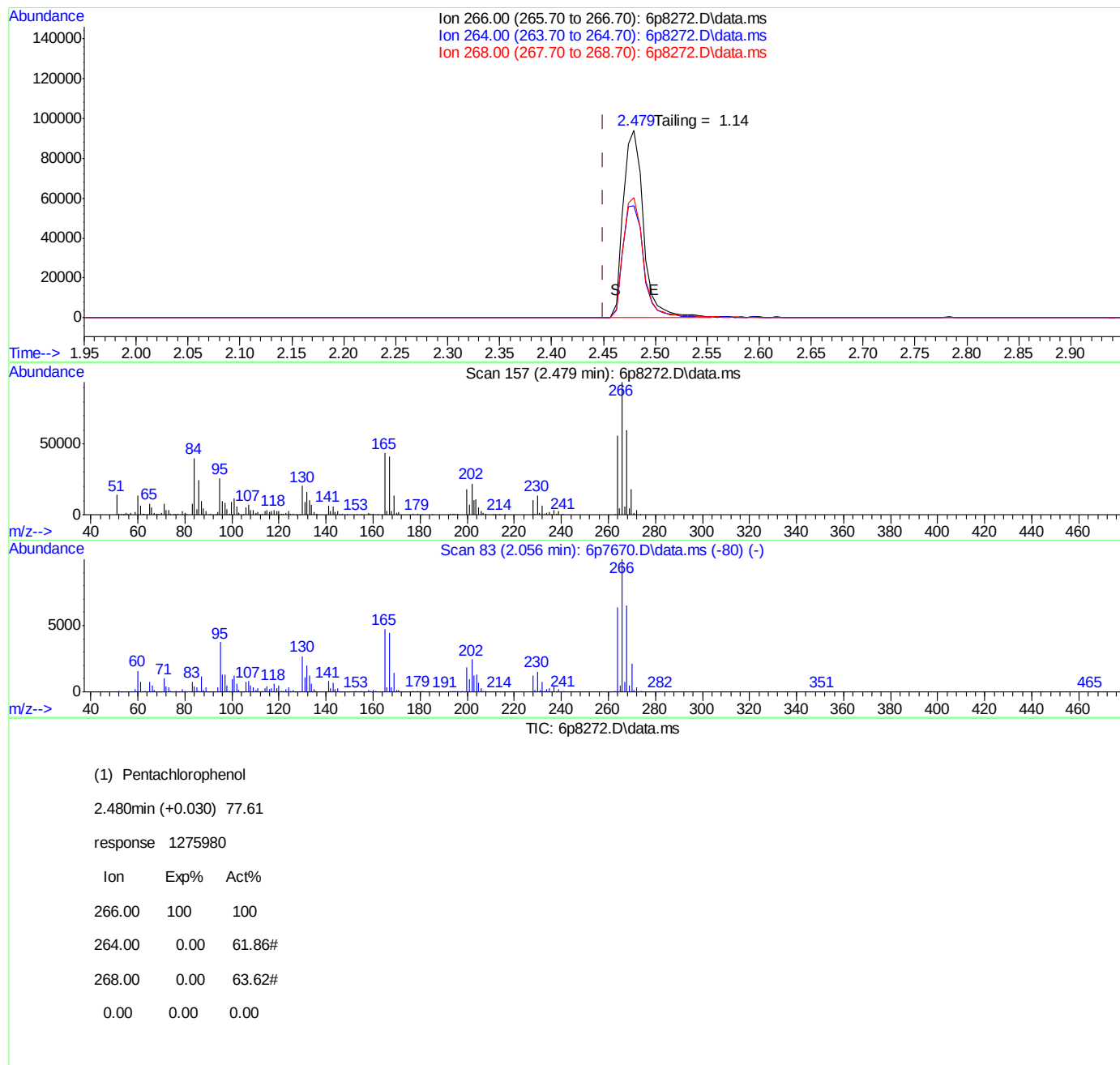
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
320.95	187	345.85	515	372.90	318	424.00	972
322.95	2356	351.95	701	382.95	365	440.95	12025
323.95	473	352.95	549	389.80	78	442.00	85371
326.90	266	353.95	688	391.00	94	443.00	16799
327.85	242	354.80	127	400.90	75	443.95	1601
331.80	88	355.00	103	401.90	583		
332.00	78	364.90	3072	402.90	913		
332.90	74	365.80	111	403.95	267		
333.95	1616	366.00	346	420.95	472		
334.85	505	370.90	96	421.90	742		
341.05	306	372.00	1186	423.00	4698		

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\6p357\
Data File : 6p8272.D
Acq On : 26 Jun 2014 2:55 pm
Operator : samtap
Sample : dftpp
Misc : op75816,e6p357
ALS Vial : 1 Sample Multiplier: 1

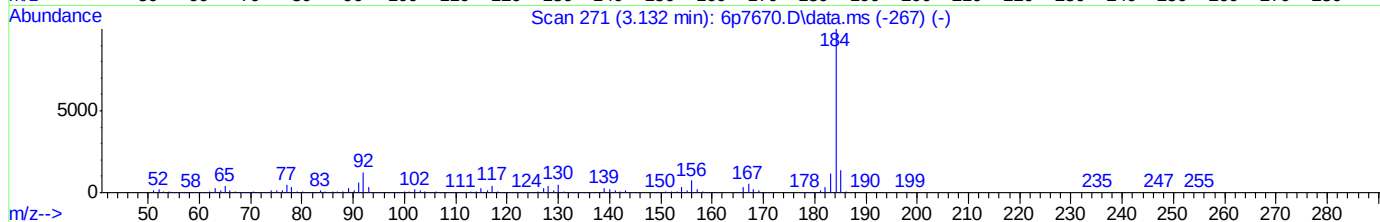
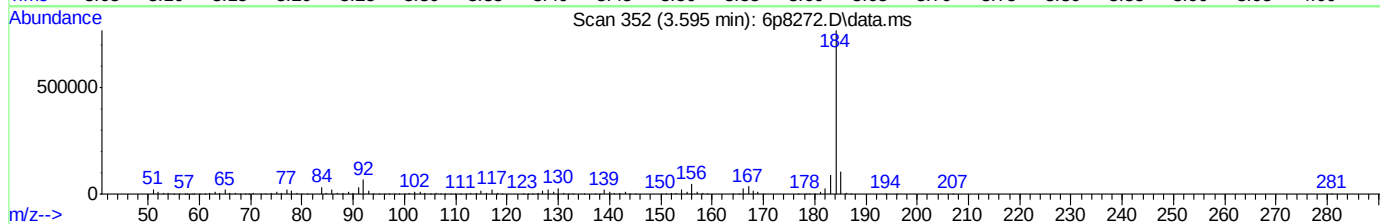
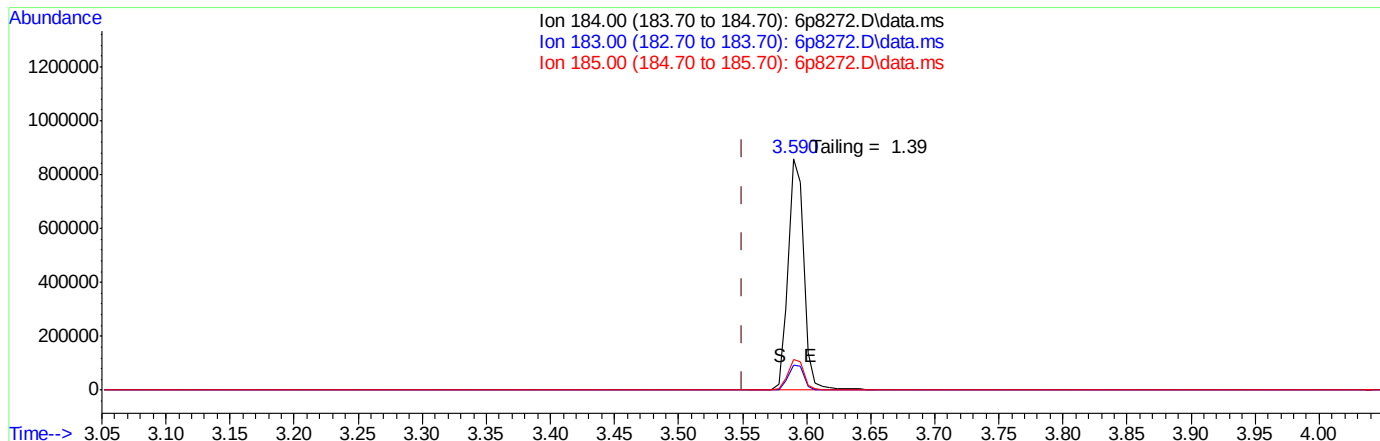
Quant Time: Jun 26 15:00:42 2014
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M
Quant Title : zebron ZB-5msi 30mx0.25mmx0.25um
QLast Update : Wed Jun 04 08:53:31 2014
Response via : Initial Calibration

9.5.5.1
9

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\6p357\
Data File : 6p8272.D
Acq On : 26 Jun 2014 2:55 pm
Operator : samtap
Sample : dftpp
Misc : op75816,e6p357
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 26 15:00:42 2014
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M
Quant Title : zebron ZB-5msi 30mx0.25mmx0.25um
QLast Update : Wed Jun 04 08:53:31 2014
Response via : Initial Calibration



TIC: 6p8272.D\data.ms

(2) Benzidine

3.594min (+0.044) 83.01

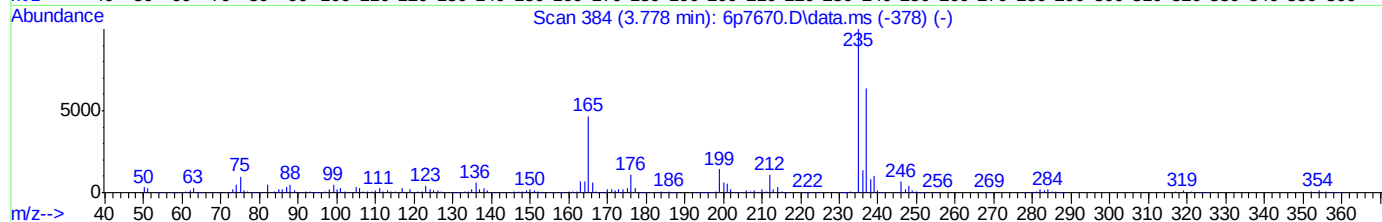
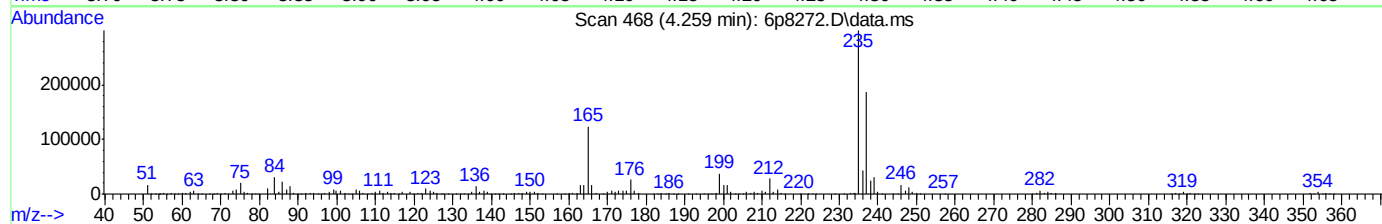
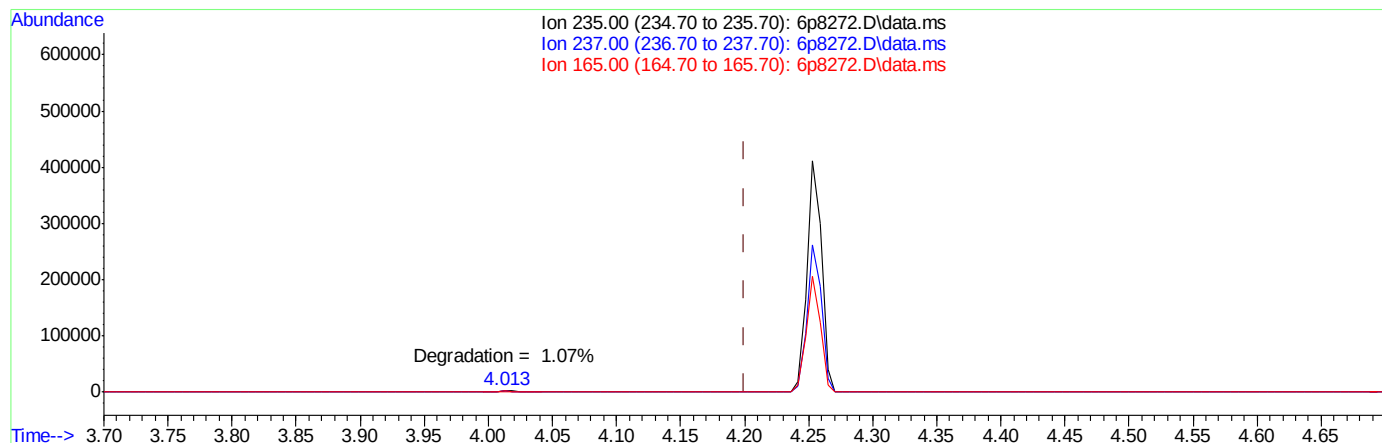
response 7405715

Ion	Exp%	Act%
184.00	100	100
183.00	0.00	11.06#
185.00	0.00	13.92#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p357\
Data File : 6p8272.D
Acq On : 26 Jun 2014 2:55 pm
Operator : samtap
Sample : dftpp
Misc : op75816,e6p357
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 26 15:00:42 2014
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M
Quant Title : zebron ZB-5msi 30mx0.25mmx0.25um
QLast Update : Wed Jun 04 08:53:31 2014
Response via : Initial Calibration



(3) PP-DDT

4.257min (+0.057) 80.93

response 3209830

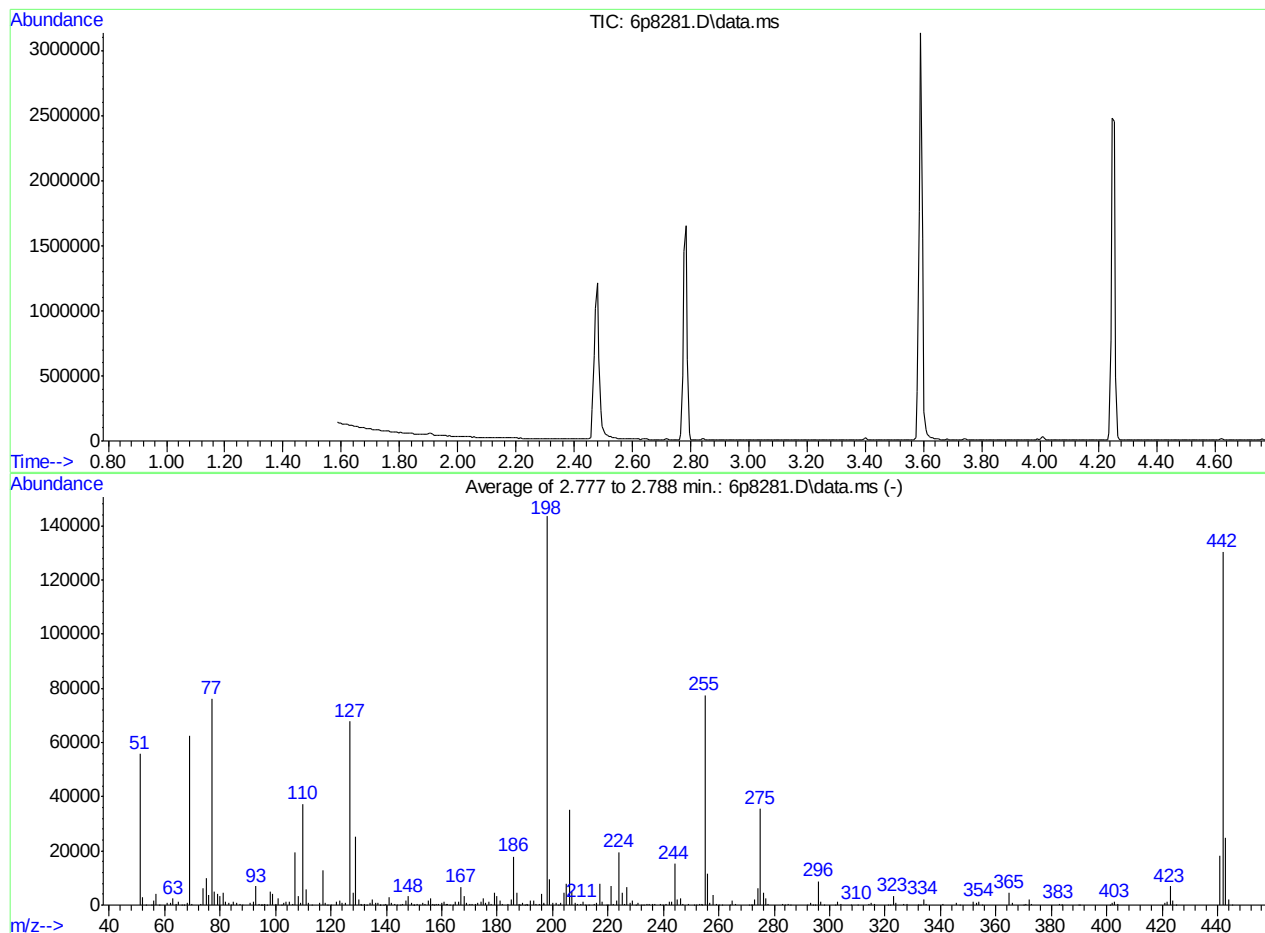
Ion	Exp%	Act%
235.00	100	100
237.00	0.00	63.22#
165.00	0.00	48.59#
0.00	0.00	0.00

DFTPP

Data File : C:\msdchem\1\DATA\6p357\6p8281.D
 Acq On : 26 Jun 2014 6:48 pm
 Sample : dftpp
 Misc : op75816,e6p358
 MS Integration Params: events.e

Vial: 1
 Operator: samtap
 Inst : MS6P
 Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M (ChemStation Integrator)
 Title : zebron ZB-5msi 30mx0.25mmx0.25um



AutoFind: Scans 209, 210, 211; Background Corrected with Scan 205

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	38.9	55737	PASS
68	69	0.00	2	1.7	1030	PASS
69	198	0.00	100	43.5	62368	PASS
70	69	0.00	2	0.7	439	PASS
127	198	40	60	47.2	67653	PASS
197	198	0.00	1	0.5	714	PASS
198	198	100	100	100.0	143371	PASS
199	198	5	9	6.6	9456	PASS
275	198	10	30	24.8	35560	PASS
365	198	1	100	3.1	4377	PASS
441	443	0.01	100	73.9	18287	PASS
442	198	40	100	90.7	130093	PASS
443	442	17	23	19.0	24733	PASS

Average of 2.777 to 2.788 min.: 6p8281.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
50.95	55737	64.95	1157	78.00	4927	91.00	1010
52.00	3023	65.95	154	79.00	4272	91.95	1114
53.10	68	67.10	77	80.00	3330	93.00	6858
55.05	82	68.05	1030	81.00	4681	93.95	490
56.00	1777	69.00	62368	81.95	1310	94.70	75
57.00	4190	69.95	439	82.95	1007	94.90	189
57.95	193	72.95	560	83.90	55	95.20	72
61.00	748	74.00	6121	84.90	1101	95.95	428
62.00	678	75.00	9820	85.90	754	96.95	222
63.00	2329	76.00	3671	87.00	637	98.00	5165
64.00	248	77.00	76061	87.85	88	99.00	4320

Average of 2.777 to 2.788 min.: 6p8281.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
100.00	427	111.00	5728	125.00	714	136.00	765
101.00	2626	111.95	649	127.00	67653	136.95	988
102.00	93	113.00	174	128.00	4686	137.70	175
102.95	894	115.95	952	129.00	25090	137.90	138
103.95	1392	117.00	12703	130.00	2131	138.95	171
105.00	1398	118.00	982	130.80	116	139.90	238
106.05	510	118.90	70	131.00	268	141.00	2850
107.00	19604	119.95	201	131.95	290	141.95	1033
108.00	3324	121.95	1151	132.95	150	142.90	594
109.15	669	123.00	1731	133.90	718	144.00	75
110.00	37362	123.95	790	135.00	1939	144.85	161

Average of 2.777 to 2.788 min.: 6p8281.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
145.90	517	156.00	2653	164.95	1290	175.95	692
147.00	1740	156.90	234	166.05	1123	177.00	1178
148.00	3140	157.10	175	166.95	6724	178.00	467
149.00	821	157.95	545	168.00	3393	179.00	4515
149.80	79	158.95	298	169.00	771	180.00	3307
150.00	110	159.95	1007	169.95	228	180.95	1675
151.05	434	161.00	1368	170.90	296	181.90	276
152.10	87	161.80	265	171.95	602	183.90	328
152.95	890	162.00	270	173.05	724	184.95	2145
153.95	626	162.90	76	174.00	1194	186.00	17908
155.00	1645	164.00	169	175.00	2638	187.00	4682

Average of 2.777 to 2.788 min.: 6p8281.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
188.00	444	196.80	450	207.00	4794	219.40	71
188.20	75	197.00	714	208.00	1007	220.00	82
188.95	990	198.00	143371	208.95	321	221.00	6847
189.85	215	199.00	9456	210.05	469	221.80	294
190.80	156	199.90	725	210.95	1219	222.95	1877
190.95	391	201.45	662	211.85	187	224.00	19560
192.00	1496	202.00	126	213.10	69	225.00	4714
193.00	1790	203.00	884	214.95	288	225.95	483
193.95	498	204.00	4396	215.95	733	226.95	6783
195.05	276	205.00	8046	217.00	8025	227.90	953
196.00	4291	206.00	35328	217.90	1174	228.95	1735

Average of 2.777 to 2.788 min.: 6p8281.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
229.85	187	241.95	1115	254.05	453	270.70	103
230.95	708	242.95	1130	255.00	77376	271.80	90
232.00	93	244.00	15165	256.00	11659	272.05	205
233.00	67	245.00	2066	256.90	790	273.00	2238

233.90	430	246.00	2481	258.00	3931	273.95	6215
235.00	505	246.95	477	259.00	636	275.00	35560
235.95	372	249.00	632	259.95	177	276.00	4679
236.95	599	250.90	68	261.00	117	277.00	2658
238.90	390	252.00	206	264.00	77	277.95	329
239.80	222	252.90	489	264.95	1842	282.90	387
240.90	335	253.70	114	265.90	323	283.90	173

Average of 2.777 to 2.788 min.: 6p8281.D\data.ms
dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
285.00	481	303.95	363	327.85	332	354.00	1420
285.90	79	307.80	77	331.90	88	355.05	200
291.95	201	310.00	82	332.05	156	364.95	4377
292.95	739	314.00	535	332.90	210	365.90	681
293.90	131	314.90	905	334.00	2161	370.00	102
294.90	69	316.00	638	334.95	526	370.95	332
296.00	8794	321.00	172	340.95	352	372.00	1890
296.95	1397	322.00	73	345.90	845	373.00	565
297.90	88	323.00	3321	346.90	74	382.95	560
302.00	99	324.00	789	351.95	1094	383.70	82
302.95	1124	326.85	541	352.85	673	383.85	174

Average of 2.777 to 2.788 min.: 6p8281.D\data.ms
dftpp

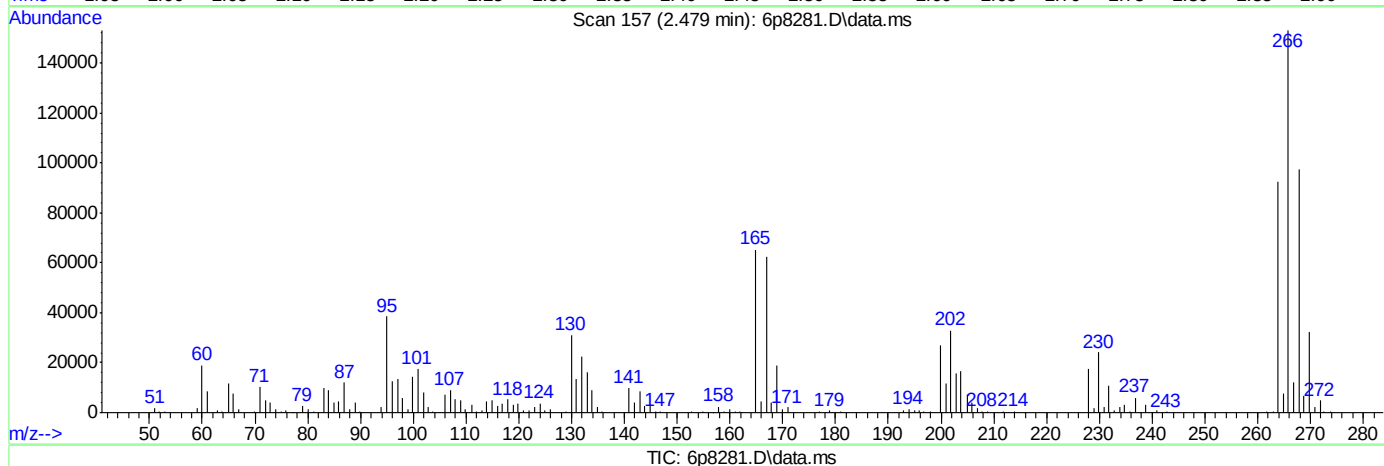
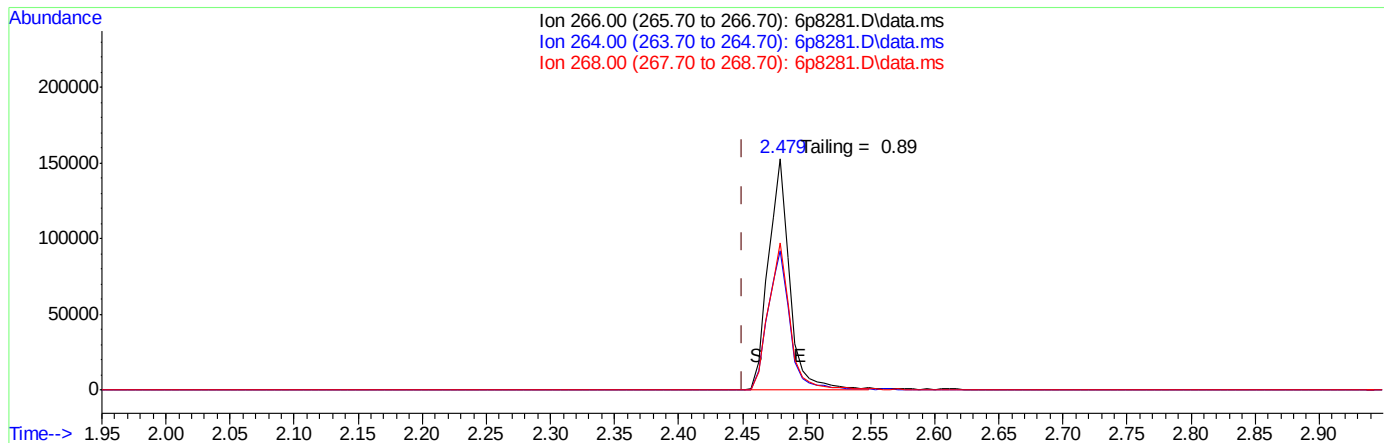
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
389.90	98	441.00	18287				
390.10	69	442.00	130093				
401.00	94	443.00	24733				
402.00	949	444.00	2188				
402.95	1154	445.10	86				
403.95	329						
420.90	994						
422.00	1079						
423.00	6866						
423.95	1620						
425.10	177						

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p357\
Data File : 6p8281.D
Acq On : 26 Jun 2014 6:48 pm
Operator : samtap
Sample : dftpp
Misc : op75816,e6p358
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 26 18:54:18 2014
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M
Quant Title : zebron ZB-5msi 30mx0.25mmx0.25um
QLast Update : Wed Jun 04 08:53:31 2014
Response via : Initial Calibration



(1) Pentachlorophenol

2.481min (+0.031) 106.39

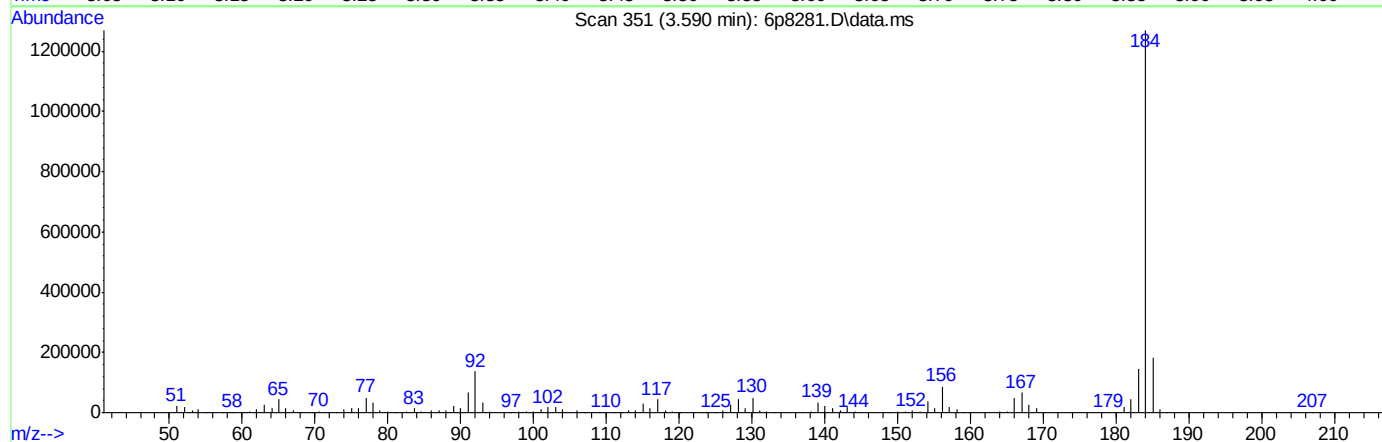
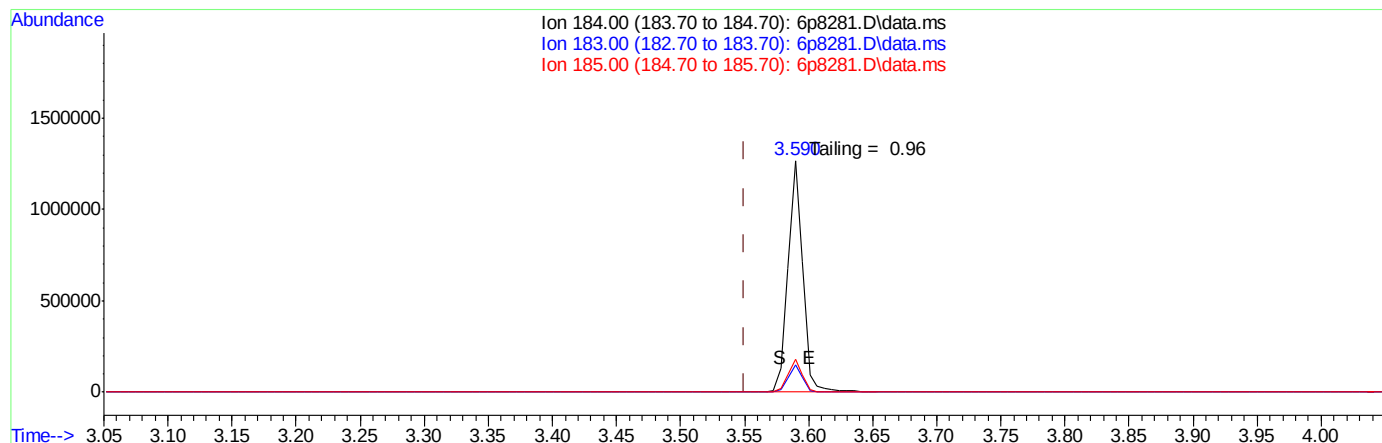
response 1749108

Ion	Exp%	Act%
266.00	100	100
264.00	0.00	63.59#
268.00	0.00	64.59#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\6p357\
Data File : 6p8281.D
Acq On : 26 Jun 2014 6:48 pm
Operator : samtap
Sample : dftpp
Misc : op75816,e6p358
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 26 18:54:18 2014
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M
Quant Title : zebron ZB-5msi 30mx0.25mmx0.25um
QLast Update : Wed Jun 04 08:53:31 2014
Response via : Initial Calibration



(2) Benzidine

3.592min (+0.042) 114.37

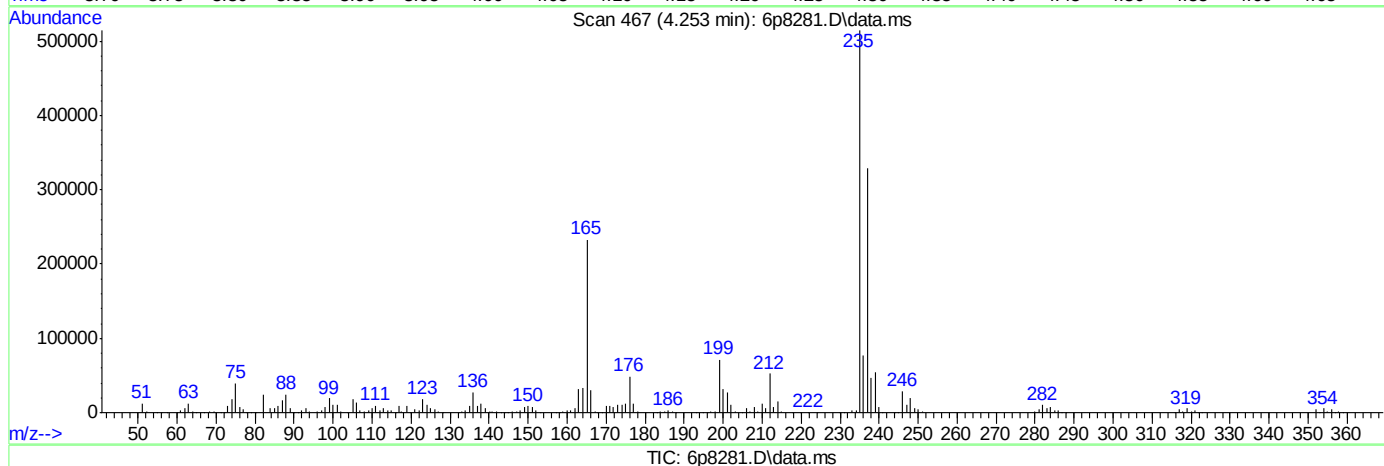
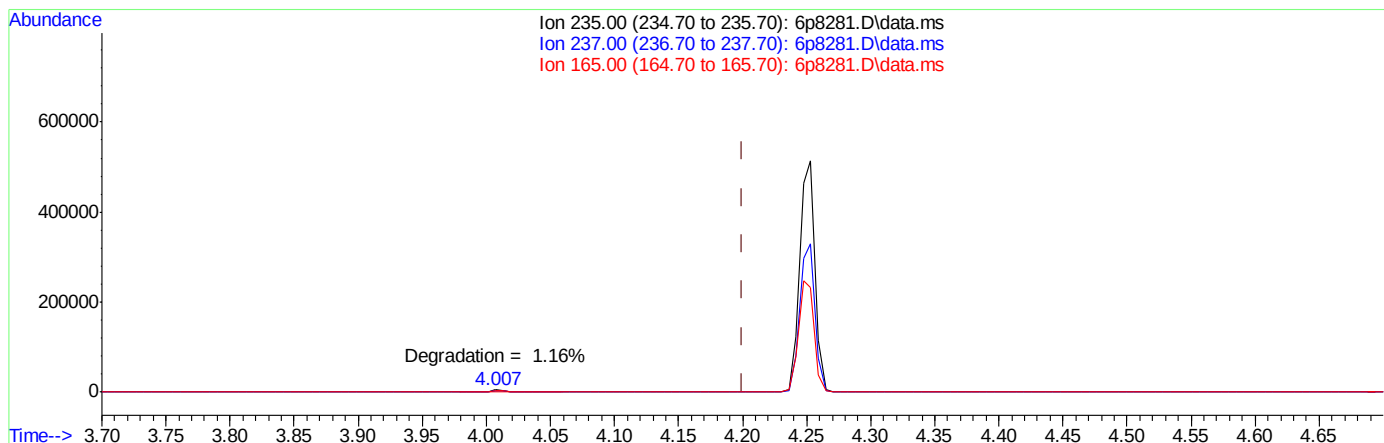
response 10203543

Ion	Exp%	Act%
184.00	100	100
183.00	0.00	11.12#
185.00	0.00	13.91#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\6p357\
Data File : 6p8281.D
Acq On : 26 Jun 2014 6:48 pm
Operator : samtap
Sample : dftpp
Misc : op75816,e6p358
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 26 18:54:18 2014
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M
Quant Title : zebron ZB-5msi 30mx0.25mmx0.25um
QLast Update : Wed Jun 04 08:53:31 2014
Response via : Initial Calibration



(3) PP-DDT

4.253min (+0.053) 106.52

response 4224835

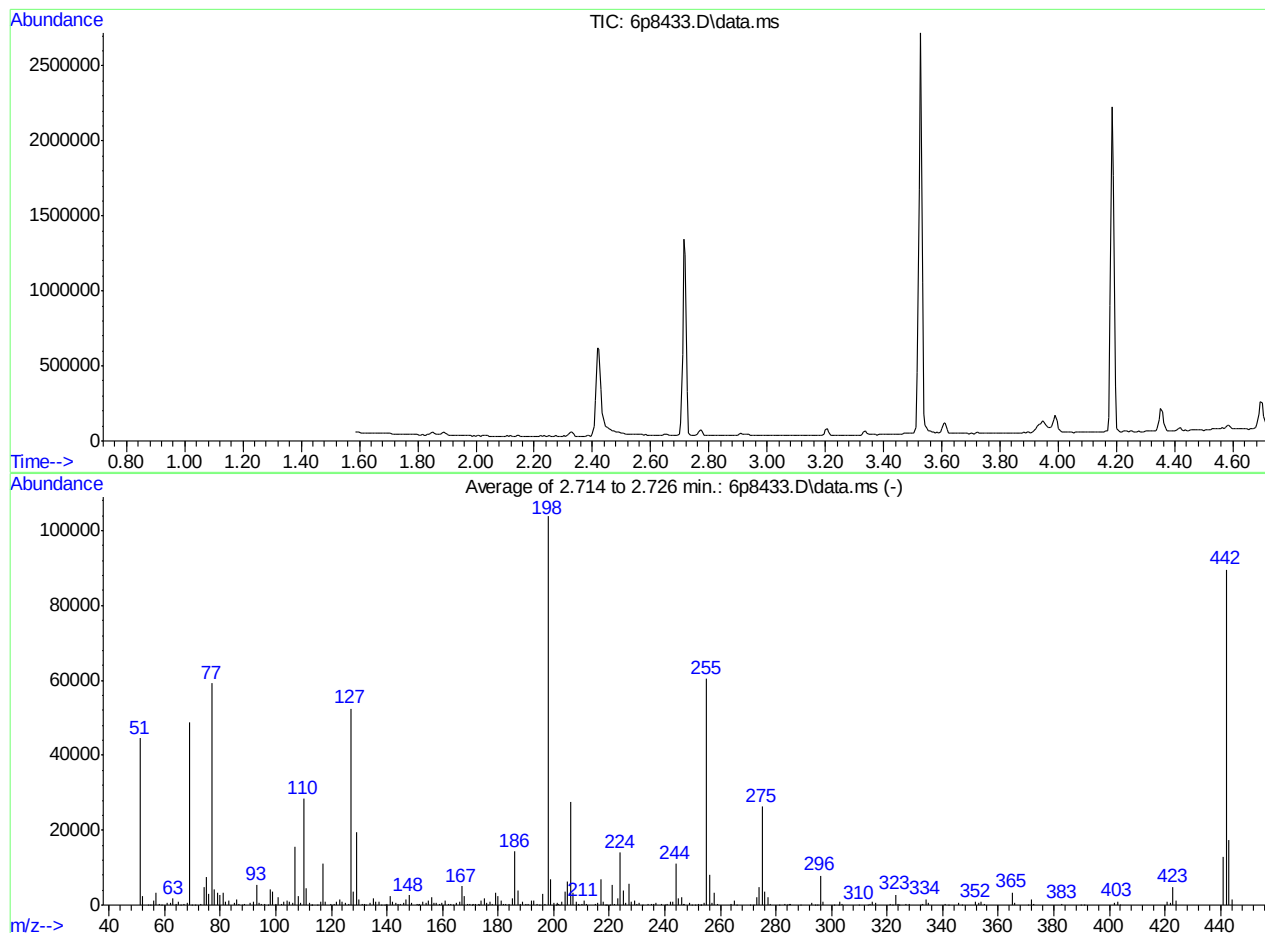
Ion	Exp%	Act%
235.00	100	100
237.00	0.00	64.07#
165.00	0.00	49.24#
0.00	0.00	0.00

DFTPP

Data File : C:\msdchem\1\DATA\6p364\6p8433.D
 Acq On : 2 Jul 2014 9:40 pm
 Sample : dftpp
 Misc : op75816,e6p364
 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 198, 199, 200; Background Corrected with Scan 193

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	42.9	44556	PASS
68	69	0.00	2	1.1	559	PASS
69	198	0.00	100	47.1	48837	PASS
70	69	0.00	2	0.3	141	PASS
127	198	40	60	50.6	52550	PASS
197	198	0.00	1	0.2	250	PASS
198	198	100	100	100.0	103787	PASS
199	198	5	9	6.6	6875	PASS
275	198	10	30	25.4	26329	PASS
365	198	1	100	3.3	3379	PASS
441	443	0.01	100	74.4	12962	PASS
442	198	40	100	86.4	89651	PASS
443	442	17	23	19.4	17424	PASS

Average of 2.714 to 2.726 min.: 6p8433.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
51.00	44556	63.95	267	76.00	3093	87.90	51
52.00	2262	65.00	828	77.00	59243	88.90	161
53.90	93	65.90	75	78.00	4073	90.90	680
55.00	152	67.10	313	78.95	3250	91.95	1011
56.00	1127	67.95	559	79.95	2758	93.00	5257
57.00	3327	68.95	48837	80.95	3374	93.95	685
57.95	312	69.95	141	82.00	936	94.90	252
58.95	71	70.95	151	82.95	1218	95.90	165
60.95	666	72.95	364	84.95	558	97.05	72
62.00	686	74.00	4892	85.90	1403	97.95	4137
63.00	1731	75.00	7588	86.90	442	99.00	3505

Average of 2.714 to 2.726 min.: 6p8433.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
99.95	299	111.00	4352	123.00	1493	133.85	494
100.95	2173	112.00	559	123.95	858	134.95	1695
101.95	201	112.90	148	124.95	557	136.00	793
103.00	804	113.10	91	126.10	257	137.00	785
104.00	1342	115.00	126	127.00	52550	138.10	159
105.00	1004	116.00	894	128.00	3661	139.00	68
106.00	460	116.95	11108	129.00	19371	139.95	200
107.00	15677	117.95	828	130.00	1626	141.00	2440
108.00	2332	119.95	249	130.90	441	141.90	948
109.05	614	121.05	294	131.85	188	143.00	550
110.00	28323	121.90	795	132.10	125	143.85	171

Average of 2.714 to 2.726 min.: 6p8433.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
144.90	196	156.00	2173	167.00	5029	176.00	464
145.95	524	157.00	501	168.00	2406	176.30	67
147.00	1386	157.90	475	168.85	337	177.00	896
147.95	2617	159.05	286	169.90	167	177.95	327
148.95	502	159.90	556	170.70	77	179.00	3271
151.00	278	160.95	1237	171.00	243	180.00	2508
151.30	128	162.00	406	171.95	403	181.00	1245
151.85	271	163.00	168	172.90	393	181.95	268
152.95	851	163.95	158	173.10	95	182.90	207
154.00	513	165.00	721	174.00	1133	183.95	185
155.00	1214	166.00	898	175.00	1688	185.00	1730

Average of 2.714 to 2.726 min.: 6p8433.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
186.00	14260	197.00	250	206.00	27416	217.95	889
187.00	3966	198.00	103787	206.95	3217	218.80	99
187.95	396	199.00	6875	207.95	1039	219.00	96
188.95	973	199.90	605	208.80	100	220.10	85
189.85	209	200.70	84	209.00	166	221.00	5292
191.00	358	201.35	610	210.05	438	221.70	236
192.00	1225	201.60	201	210.90	1096	223.00	1761
193.00	1073	202.00	99	211.65	204	224.00	13979
193.90	304	202.95	797	214.90	265	225.00	3876
195.00	152	204.00	3721	216.00	628	225.95	497
195.95	3078	205.00	6271	217.00	6921	226.95	5719

Average of 2.714 to 2.726 min.: 6p8433.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
227.95	915	240.90	393	252.05	186	265.80	126
228.95	1219	242.00	872	252.90	150	270.80	76
230.00	306	243.00	769	253.10	131	272.00	119
230.90	507	244.00	11033	254.00	461	273.00	1984

231.90	88	245.00	1695	255.00	60360	274.00	4808
234.00	342	245.90	2203	256.00	8200	275.00	26329
235.00	391	246.80	372	256.95	708	276.00	3582
235.90	244	247.00	160	257.95	3414	277.00	1992
236.95	495	248.95	521	258.95	412	277.95	387
238.90	219	249.80	96	263.85	422	281.10	159
240.00	155	251.10	72	264.95	1186	283.05	218

Average of 2.714 to 2.726 min.: 6p8433.D\data.ms
dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
284.10	117	303.00	891	324.20	87	351.90	825
284.90	289	303.85	169	326.85	437	352.90	522
285.10	188	310.00	88	327.95	208	353.95	806
289.00	83	313.00	77	331.90	112	354.95	164
292.95	548	313.90	350	332.95	202	364.90	3379
294.00	82	314.85	910	333.95	1503	365.90	499
294.80	105	315.85	460	334.95	475	370.70	89
296.00	7843	321.00	294	340.95	236	371.95	1464
296.95	900	321.90	78	341.90	72	372.90	198
300.90	72	323.00	2719	345.90	671	382.90	458
302.70	77	324.00	399	347.00	71	389.80	72

Average of 2.714 to 2.726 min.: 6p8433.D\data.ms
dftpp

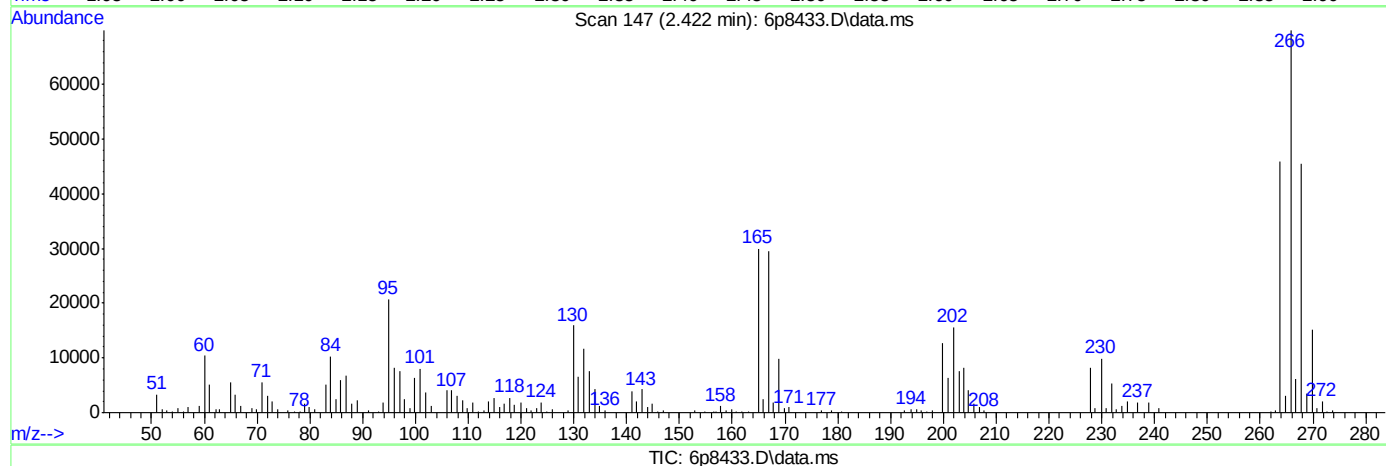
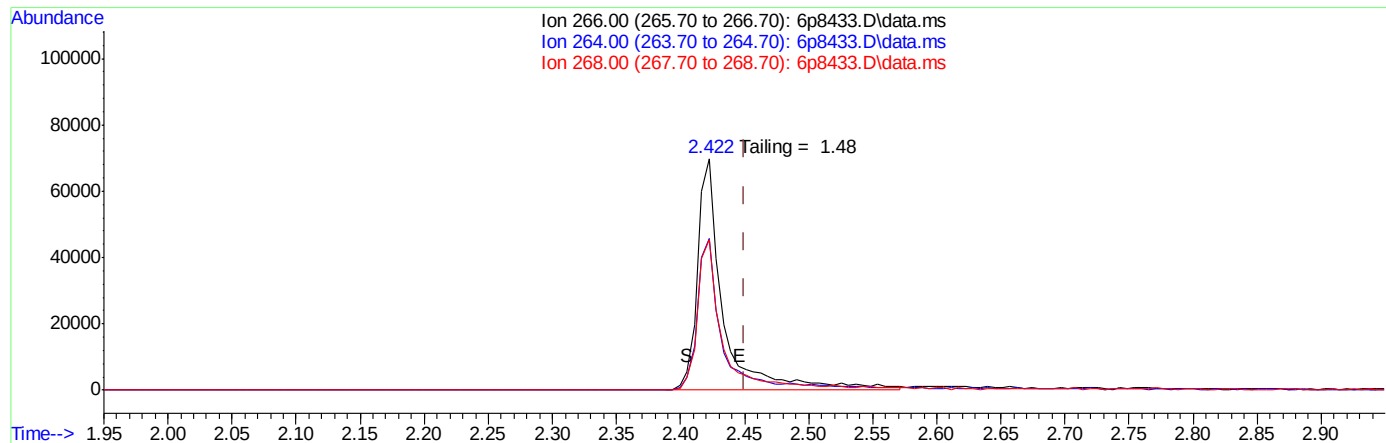
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
391.00	131	444.00	1520				
401.95	747						
402.90	918						
404.00	150						
420.95	763						
421.90	637						
422.95	4935						
423.95	1073						
441.00	12962						
442.00	89651						
443.00	17424						

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\6p364\
Data File : 6p8433.D
Acq On : 2 Jul 2014 9:40 pm
Operator : andrews1
Sample : dftpp
Misc : op75816,e6p364
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 02 21:46:00 2014
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M
Quant Title : zebron ZB-5msi 30mx0.25mmx0.25um
QLast Update : Wed Jun 04 08:53:31 2014
Response via : Initial Calibration



(1) Pentachlorophenol

2.423min (-0.027) 56.06

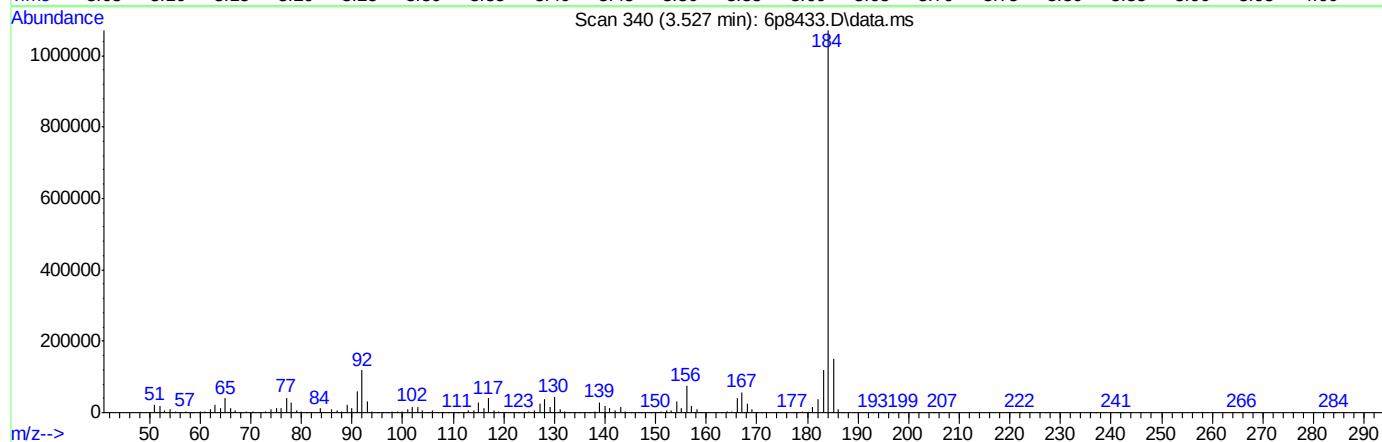
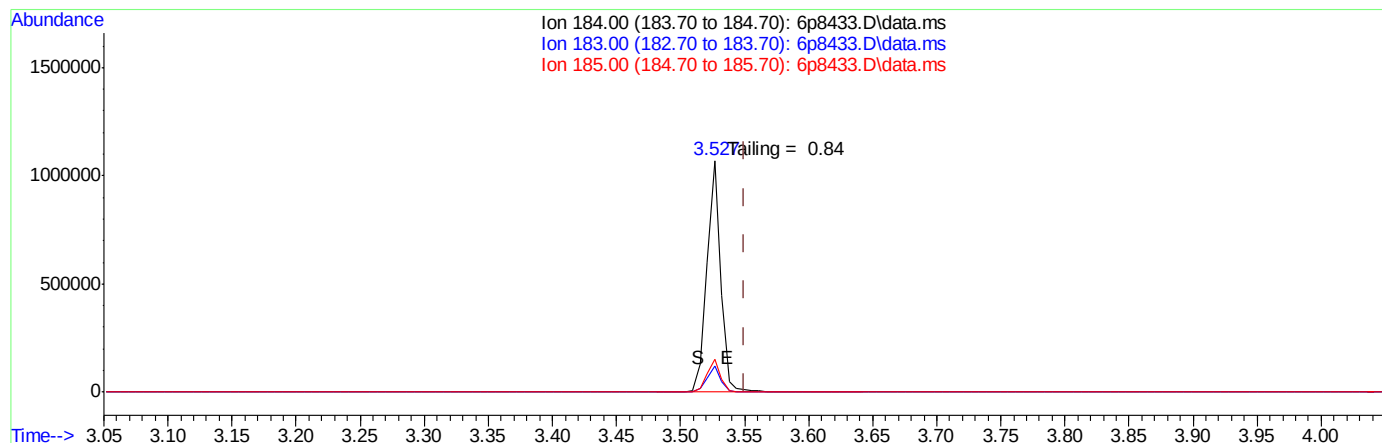
response 921600

Ion	Exp%	Act%
266.00	100	100
264.00	0.00	63.20#
268.00	0.00	63.18#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\6p364\
Data File : 6p8433.D
Acq On : 2 Jul 2014 9:40 pm
Operator : andrews1
Sample : dftpp
Misc : op75816,e6p364
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 02 21:46:00 2014
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M
Quant Title : zebron ZB-5msi 30mx0.25mmx0.25um
QLast Update : Wed Jun 04 08:53:31 2014
Response via : Initial Calibration



(2) Benzidine

3.529min (-0.021) 90.30

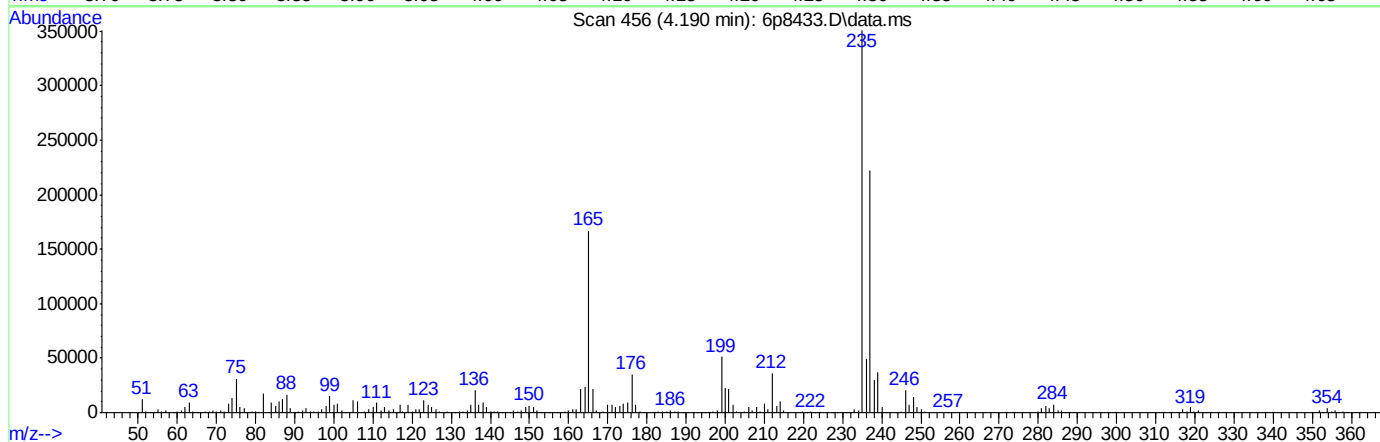
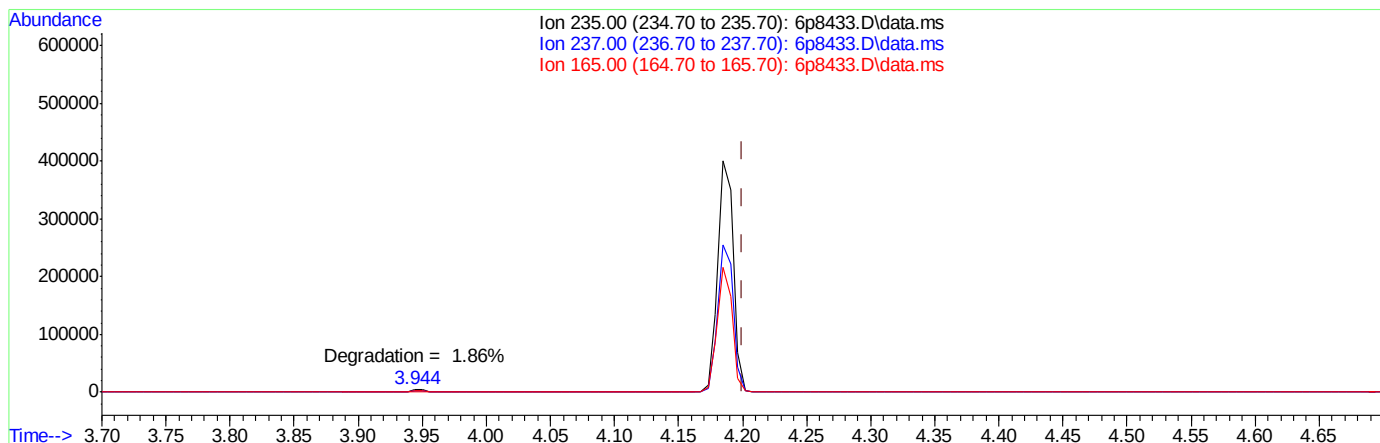
response 8056198

Ion	Exp%	Act%
184.00	100	100
183.00	0.00	11.03#
185.00	0.00	13.74#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\6p364\
Data File : 6p8433.D
Acq On : 2 Jul 2014 9:40 pm
Operator : andrews1
Sample : dftpp
Misc : op75816,e6p364
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 02 21:46:00 2014
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M
Quant Title : zebron ZB-5msi 30mx0.25mmx0.25um
QLast Update : Wed Jun 04 08:53:31 2014
Response via : Initial Calibration



(3) PP-DDT

4.189min (-0.011) 84.05

response 3333481

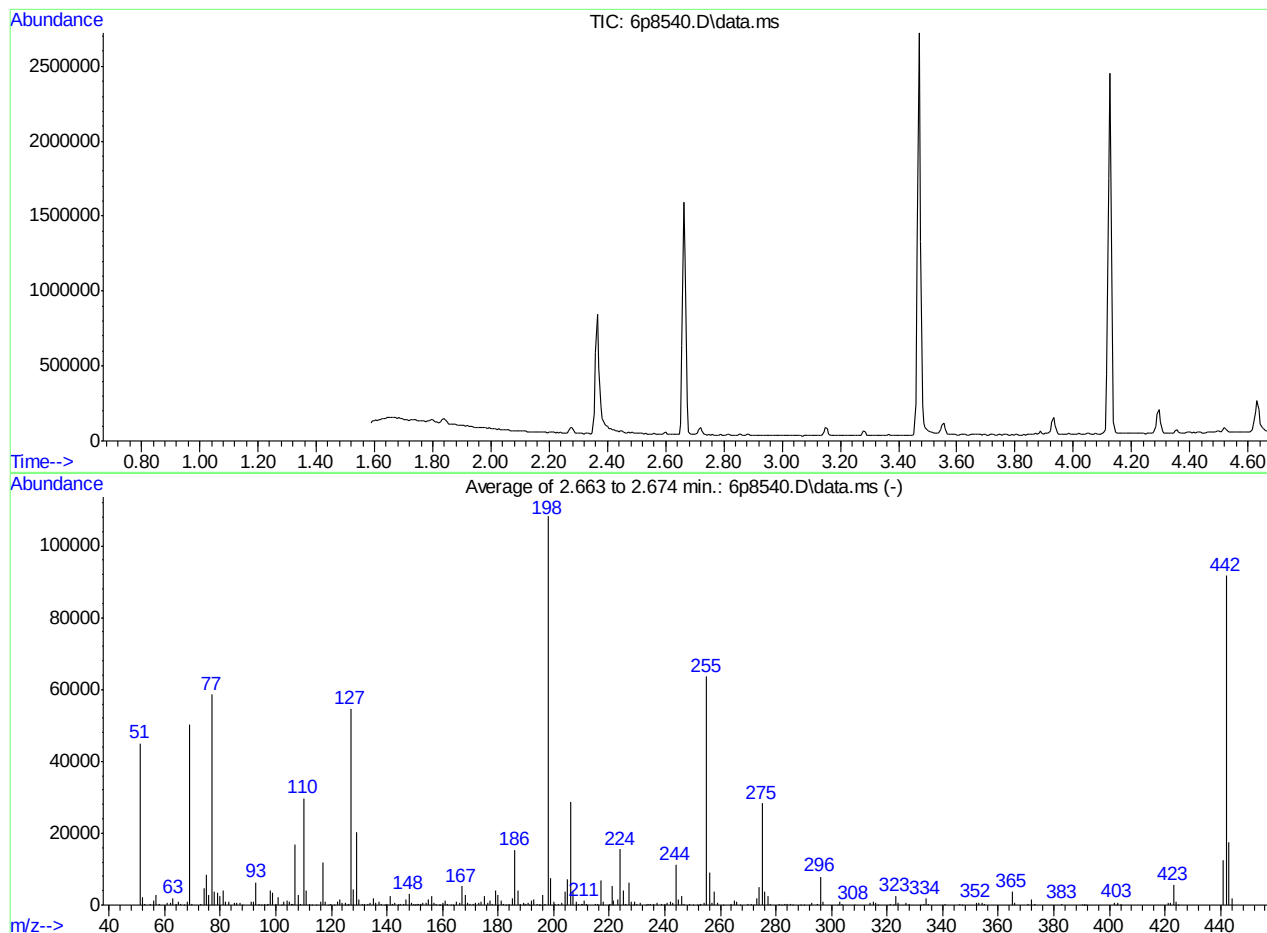
Ion	Exp%	Act%
235.00	100	100
237.00	0.00	63.63#
165.00	0.00	51.85#
0.00	0.00	0.00

DFTPP

Data File : C:\msdchem\1\DATA\6p368\6p8540.D
Acq On : 8 Jul 2014 10:47 am
Sample : dftpp
Misc : op75816,e6p368
MS Integration Params: events.e

Vial: 1
Operator: ashleyv
Inst : MS6P
Multipl: 1.00

Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M (ChemStation Integrator)
Title : zebron ZB-5msi 30mx0.25mmx0.25um



AutoFind: Scans 189, 190, 191; Background Corrected with Scan 185

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	41.6	45007	PASS
68	69	0.00	2	1.7	872	PASS
69	198	0.00	100	46.4	50189	PASS
70	69	0.00	2	0.4	225	PASS
127	198	40	60	50.4	54492	PASS
197	198	0.00	1	0.4	411	PASS
198	198	100	100	100.0	108160	PASS
199	198	5	9	6.9	7414	PASS
275	198	10	30	26.2	28329	PASS
365	198	1	100	3.4	3721	PASS
441	443	0.01	100	71.8	12555	PASS
442	198	40	100	84.7	91584	PASS
443	442	17	23	19.1	17484	PASS

Average of 2.663 to 2.674 min.: 6p8540.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
51.00	45007	64.95	1056	77.95	3705	91.95	825
51.95	2187	65.75	180	79.00	3504	92.95	6344
52.95	434	66.95	28	80.00	2445	94.00	350
55.00	179	67.95	872	81.00	3969	94.95	72
55.95	1401	68.95	50189	82.00	814	96.00	337
57.00	2915	69.95	225	82.95	956	96.80	148
58.00	211	72.95	360	84.90	606	97.00	210
61.05	756	74.00	4836	85.90	618	98.00	4185
62.00	743	75.00	8440	86.95	759	99.00	3478
63.00	2026	76.00	2886	87.90	146	99.95	307
63.95	296	76.95	58655	90.95	808	100.85	2069

Average of 2.663 to 2.674 min.: 6p8540.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
101.90	137	111.95	254	124.00	733	133.00	176
102.90	849	113.00	55	124.90	669	134.00	707
103.90	1289	114.70	81	125.10	129	135.00	1961
104.95	935	116.00	809	125.70	165	135.95	578
105.80	251	117.00	11781	126.05	466	137.00	911
106.00	185	117.95	860	127.00	54492	137.95	277
106.95	16929	119.00	117	128.00	4282	139.00	75
108.00	2933	119.95	416	129.00	20353	139.95	244
109.05	409	120.95	58	129.90	1487	141.00	2546
110.00	29672	122.00	972	130.95	346	141.90	415
110.95	4153	122.90	1457	132.05	241	142.10	286

Average of 2.663 to 2.674 min.: 6p8540.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
142.95	605	151.20	242	159.95	762	171.00	222
143.80	95	151.95	200	161.00	1401	171.95	580
144.10	130	152.20	67	161.90	347	173.00	707
144.90	295	152.95	565	162.80	112	173.95	1004
146.00	446	153.90	658	163.75	157	175.00	2363
146.95	1475	155.00	1459	164.90	1033	176.10	630
148.00	3071	156.00	2515	166.00	606	176.95	1107
149.00	511	156.95	508	166.95	5191	178.00	442
149.80	250	157.90	410	168.00	2742	178.95	3926
150.20	72	158.80	158	168.95	586	180.00	2736
151.00	169	159.00	123	169.95	200	180.95	1290

Average of 2.663 to 2.674 min.: 6p8540.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
181.90	236	191.20	68	200.65	199	211.00	1122
182.90	94	191.95	1251	201.50	463	211.60	192
184.00	294	193.00	1625	203.00	672	211.90	89
185.00	1789	193.95	309	204.00	3870	214.90	346
186.00	15325	194.70	124	205.00	7192	215.90	455
187.00	4018	195.00	151	206.00	28595	216.95	6958
187.95	436	196.00	2925	207.00	3847	217.90	1010
189.00	730	197.00	411	207.95	1032	220.00	158
189.20	87	198.00	108160	208.90	351	220.30	280
190.00	207	198.95	7414	210.00	271	220.95	5429
190.90	537	199.90	800	210.20	216	221.60	1296

Average of 2.663 to 2.674 min.: 6p8540.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
222.90	1537	233.95	369	245.95	2454	257.95	3823
224.00	15579	234.95	425	247.00	476	258.95	545
225.00	3925	235.90	346	248.80	367	260.90	129
226.00	428	237.00	626	250.00	80	264.00	168

227.00	6119	238.90	242	251.85	153	265.00	1406
228.00	866	239.85	199	252.70	133	265.90	792
228.70	89	240.95	485	253.10	294	267.10	85
229.00	990	241.95	852	254.00	480	269.85	212
230.00	199	243.00	734	255.00	63556	271.00	169
230.95	515	244.00	11188	256.00	8975	272.00	126
233.00	96	245.00	1659	257.00	516	272.95	2030

Average of 2.663 to 2.674 min.: 6p8540.D\data.ms
dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
274.00	4931	288.90	142	313.95	494	333.00	269
275.00	28329	290.10	80	314.95	860	333.95	1747
276.00	3649	292.10	67	316.00	486	334.90	478
276.95	2438	292.90	512	316.60	84	340.85	299
277.85	343	295.05	183	320.95	346	345.90	422
280.95	317	295.95	7931	322.10	78	346.90	73
281.90	78	297.00	1094	323.00	2663	351.95	791
283.05	231	301.95	147	324.00	490	352.95	521
283.95	228	302.95	1070	326.90	531	354.00	787
285.00	448	303.90	263	327.90	210	354.85	219
285.90	85	308.00	106	331.90	133	364.90	3721

Average of 2.663 to 2.674 min.: 6p8540.D\data.ms
dftpp

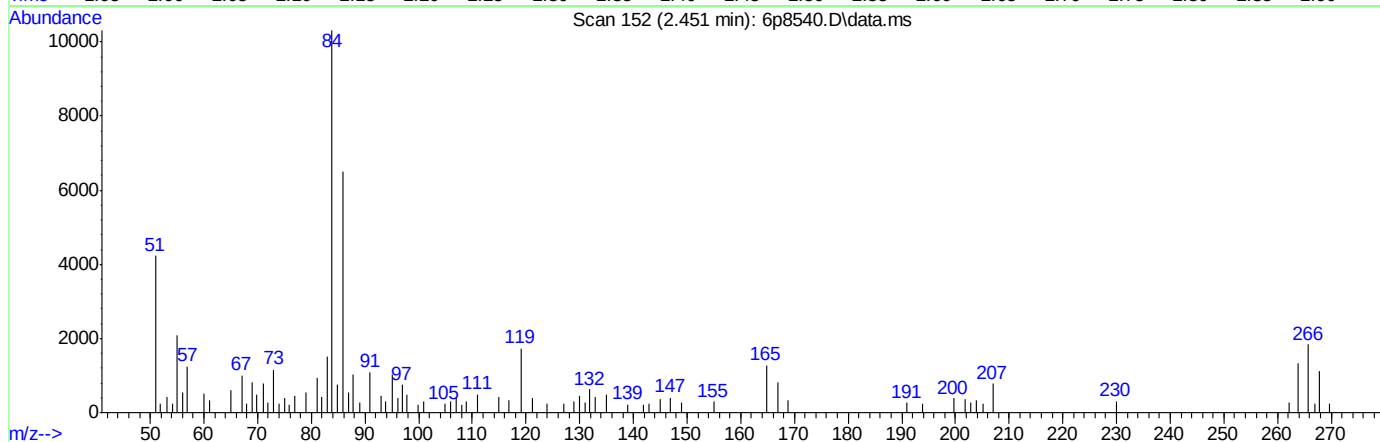
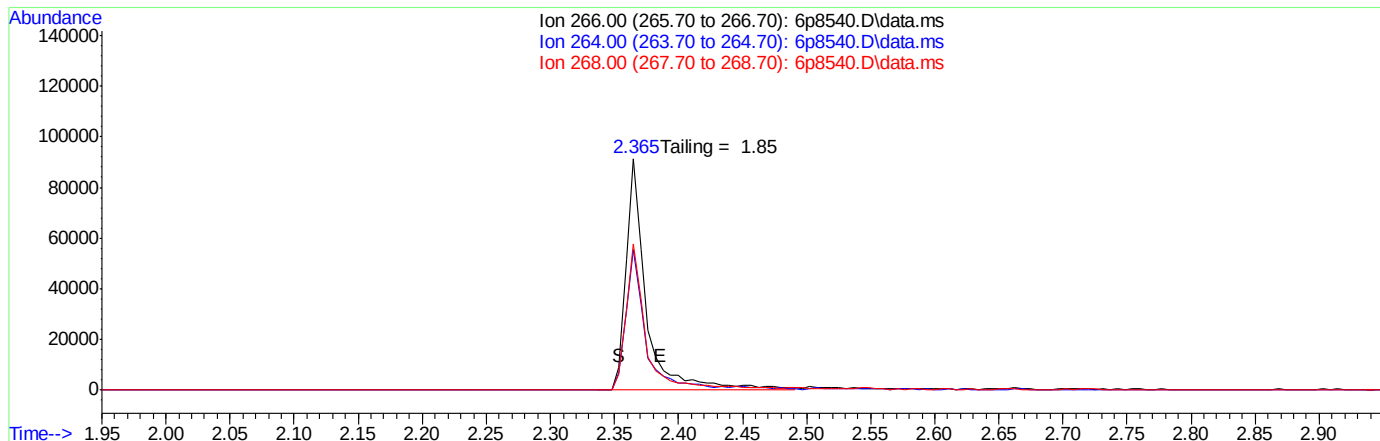
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
365.95	491	402.95	727	443.95	1737		
370.90	253	403.80	110				
371.90	1557	404.00	158				
372.95	385	420.95	680				
382.90	383	421.95	660				
389.90	70	423.00	5544				
390.70	113	423.95	921				
391.00	93	424.80	75				
391.80	83	440.95	12555				
401.95	600	442.00	91584				
402.60	101	443.00	17484				

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p368\
Data File : 6p8540.D
Acq On : 8 Jul 2014 10:47 am
Operator : ashleyv
Sample : dftpp
Misc : op75816,e6p368
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 08 10:52:26 2014
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M
Quant Title : zebron ZB-5msi 30mx0.25mmx0.25um
QLast Update : Wed Jun 04 08:53:31 2014
Response via : Initial Calibration



(1) Pentachlorophenol

2.450min (-2.450) 0.00

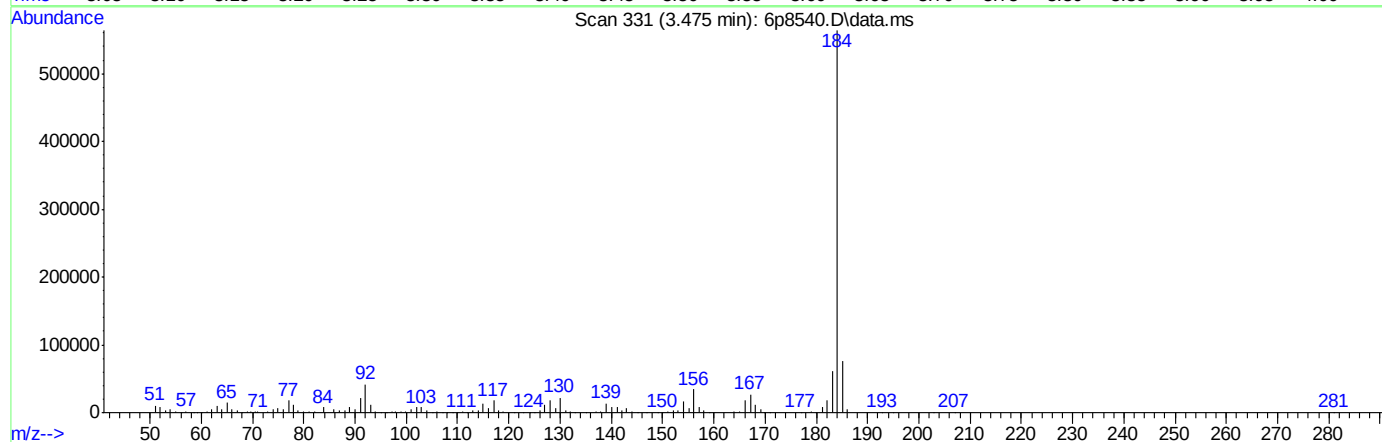
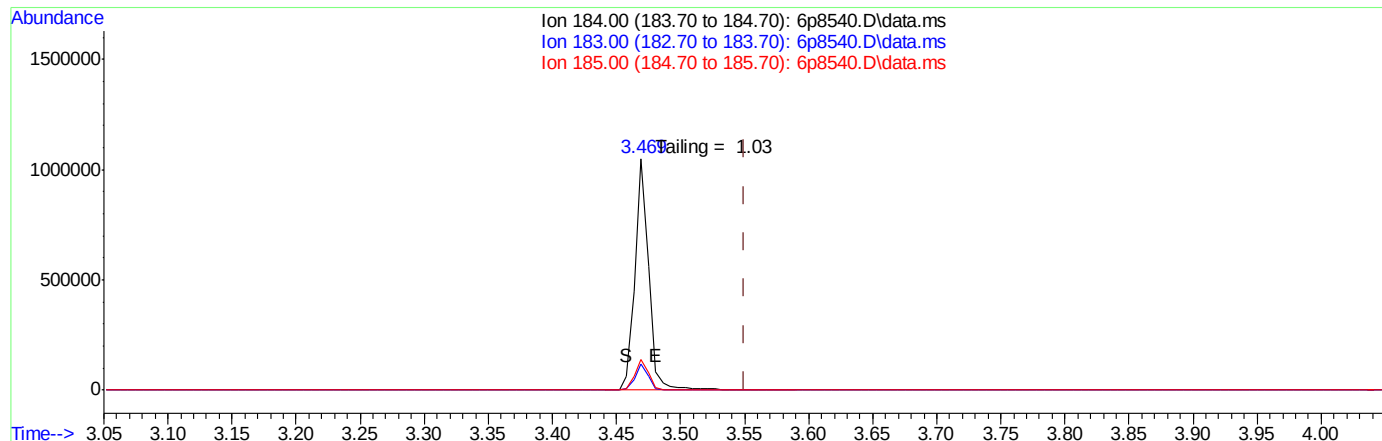
response 0

Ion	Exp%	Act%
266.00	100	0.00
264.00	0.00	0.00
268.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p368\
Data File : 6p8540.D
Acq On : 8 Jul 2014 10:47 am
Operator : ashleyv
Sample : dftpp
Misc : op75816,e6p368
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 08 10:52:26 2014
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M
Quant Title : zebron ZB-5msi 30mx0.25mmx0.25um
QLast Update : Wed Jun 04 08:53:31 2014
Response via : Initial Calibration



(2) Benzidine

3.472min (-0.078) 88.40

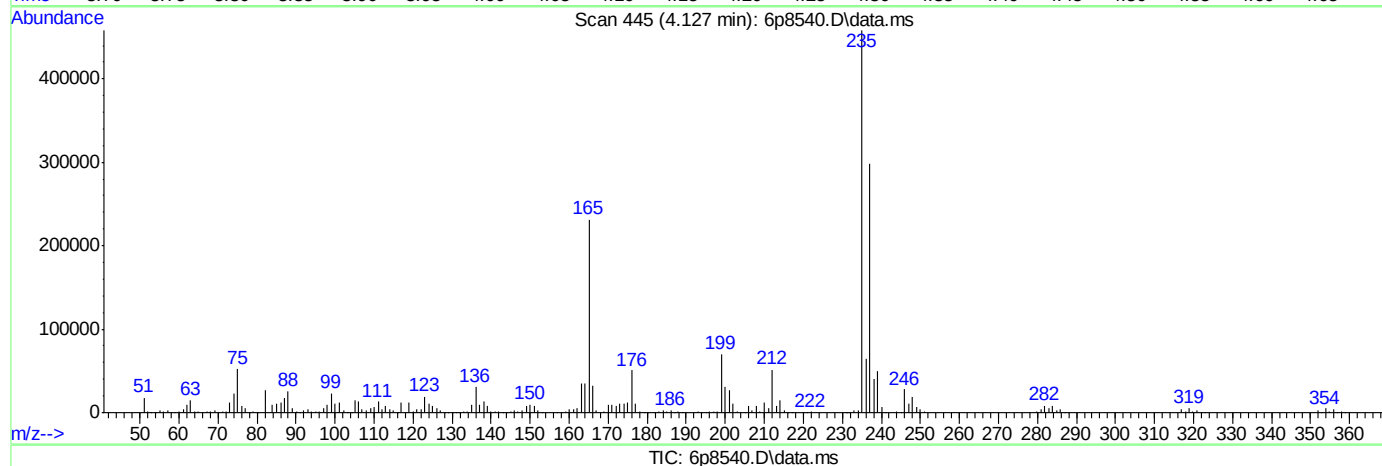
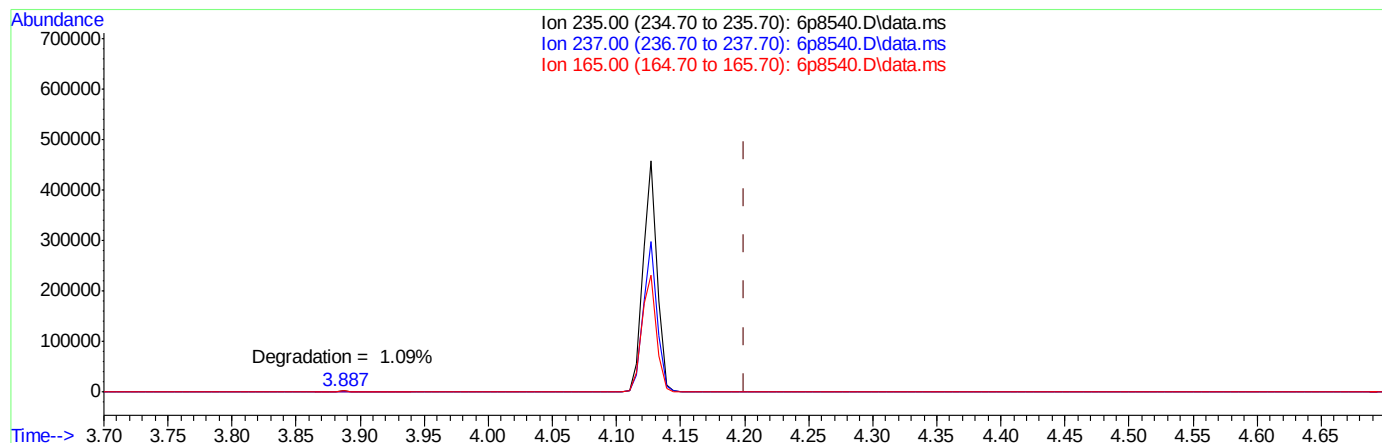
response 7886955

Ion	Exp%	Act%
184.00	100	100
183.00	0.00	11.18#
185.00	0.00	13.53#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\6p368\
Data File : 6p8540.D
Acq On : 8 Jul 2014 10:47 am
Operator : ashleyv
Sample : dftpp
Misc : op75816,e6p368
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 08 10:52:26 2014
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M
Quant Title : zebron ZB-5msi 30mx0.25mmx0.25um
QLast Update : Wed Jun 04 08:53:31 2014
Response via : Initial Calibration



(3) PP-DDT

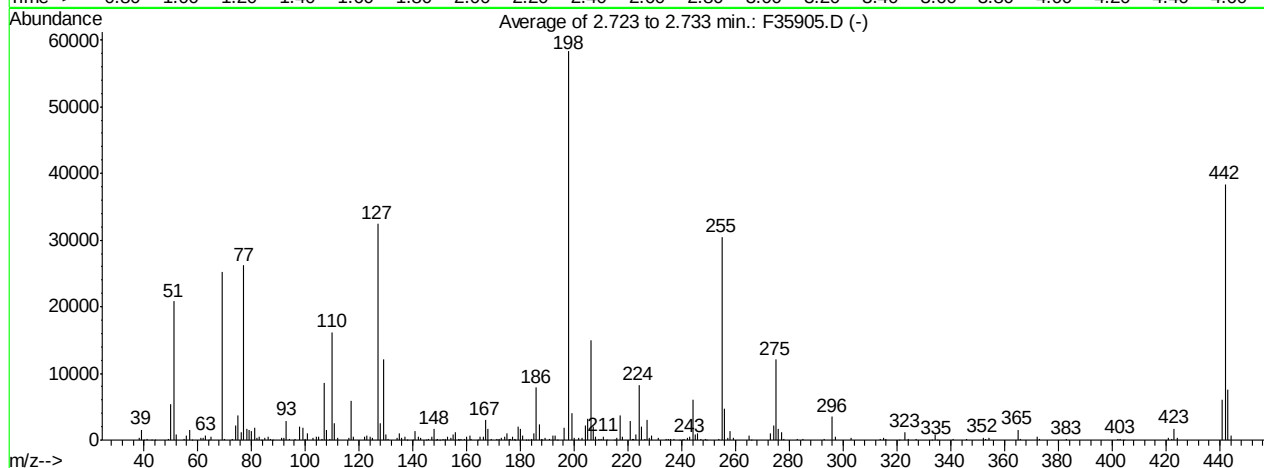
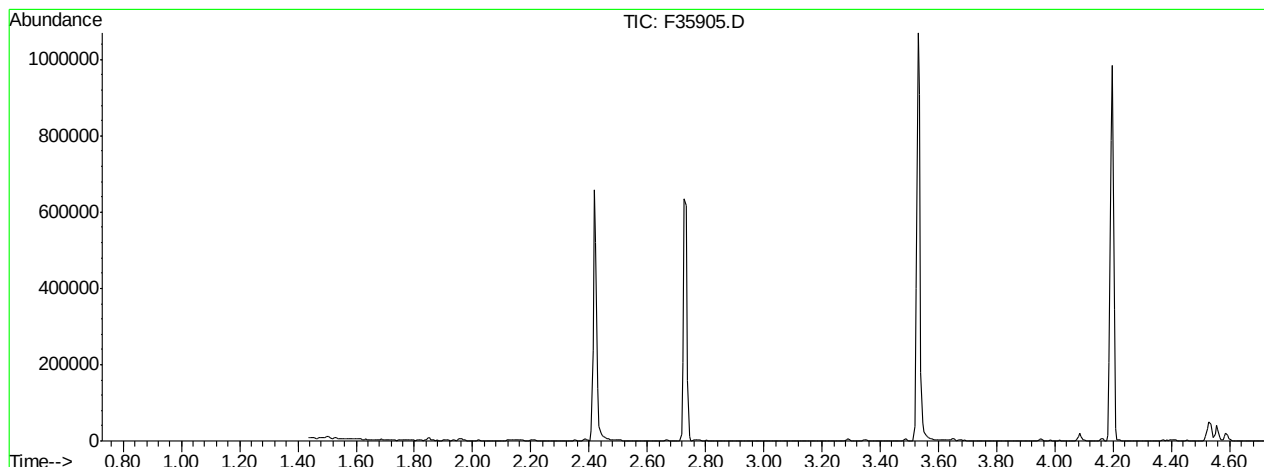
4.129min (-0.071) 87.07

response 3453319

Ion	Exp%	Act%
235.00	100	100
237.00	0.00	63.74#
165.00	0.00	52.74#
0.00	0.00	0.00

DFTPP

Data File : C:\MSDCHEM\1\DATA\EF5692\F35905.D Vial: 1
 Acq On : 11 Jun 2014 8:23 pm Operator: ashleyd
 Sample : dftpp Inst : MSF
 Misc : op74333,ef5692 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Method : C:\MSDCHEM\1\METHODS\DFTPPF.M (RTE Integrator)
 Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um



AutoFind: Scans 242, 243, 244; Background Corrected with Scan 238

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	35.7	20813	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	43.3	25234	PASS
70	69	0.00	2	0.6	143	PASS
127	198	40	60	55.5	32378	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	58298	PASS
199	198	5	9	6.9	4043	PASS
275	198	10	30	20.8	12104	PASS
365	198	1	100	2.7	1588	PASS
441	443	0.10	100	78.8	5976	PASS
442	198	40	100	65.8	38349	PASS
443	442	17	23	19.8	7588	PASS

Average of 2.723 to 2.733 min.: F35905.D

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
38.10	317	56.00	662	74.10	2218	85.00	337
39.05	1517	57.05	1539	75.05	3686	86.05	519
40.10	60	58.00	61	76.10	1191	87.05	257
41.10	108	61.10	296	77.10	26199	88.00	66
43.00	55	62.05	298	78.10	1761	91.05	403
44.00	53	63.05	714	79.05	1572	92.00	394
49.00	125	64.10	72	80.00	1360	93.00	2947
50.10	5384	65.10	458	81.05	1853	94.00	203
51.10	20813	69.00	25234	81.95	387	96.10	159
52.10	914	70.05	143	83.00	469	98.00	2103
55.05	186	73.05	249	83.90	38	99.00	1853

Average of 2.723 to 2.733 min.: F35905.D

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
100.00	160	112.05	267	130.00	916	145.10	64
101.00	1043	116.05	398	131.00	189	145.95	250
103.00	421	117.00	5841	134.00	285	147.00	559
104.00	582	117.95	474	135.05	933	148.00	1652
105.05	514	122.05	485	136.00	341	148.90	63
106.05	216	123.05	730	137.05	439	149.05	246
107.00	8541	124.00	467	138.10	51	150.00	50
108.05	1465	124.95	335	139.90	67	151.05	182
109.00	101	127.00	32378	141.00	1356	152.00	107
110.00	16209	128.00	2560	142.05	545	152.95	441
111.00	2446	129.00	12070	143.05	324	153.95	356

Average of 2.723 to 2.733 min.: F35905.D

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
155.00	820	166.05	472	176.95	543	187.00	2436
156.00	1221	167.00	2958	177.70	60	187.90	55
156.90	146	168.00	1684	178.05	175	188.05	202
157.10	85	169.05	220	178.95	2012	188.95	372
158.00	188	171.05	112	180.00	1637	190.95	250
158.95	187	172.00	212	181.00	710	192.00	642
160.05	443	173.00	343	181.90	63	193.00	652
161.05	708	174.05	564	182.90	52	193.80	54
161.85	181	175.05	939	184.10	179	196.05	1845
164.00	69	175.95	231	185.05	1015	198.00	58298
165.05	549	176.20	167	186.00	7840	199.00	4043

Average of 2.723 to 2.733 min.: F35905.D

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
200.00	262	211.90	75	226.10	196	241.00	143
201.50	371	215.00	64	227.00	3114	242.05	406
203.00	301	216.00	314	227.95	416	243.05	455
204.00	2143	217.00	3769	228.95	657	244.10	6050
205.05	3263	218.05	507	231.10	303	245.05	849
206.10	14950	221.00	2847	234.00	187	246.00	1081
207.05	2051	221.70	104	235.00	223	247.05	200
208.00	501	221.90	237	236.00	130	248.90	105
209.05	199	223.05	874	236.95	250	249.10	60
209.90	95	224.10	8285	239.00	59	253.90	118
210.95	570	225.05	2061	240.00	70	255.00	30495

Average of 2.723 to 2.733 min.: F35905.D

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
256.00	4764	278.00	220	323.10	1193	365.00	1588
257.05	337	283.00	93	324.05	256	365.95	183
258.00	1368	285.10	218	326.95	212	372.10	556
259.00	298	293.00	214	333.00	75	373.05	161

265.05	594	296.00	3501	334.00	783	383.00	96
266.00	54	297.05	441	335.00	87	402.00	161
273.00	934	302.95	359	341.05	138	403.00	225
274.00	2165	313.95	163	345.95	240	404.00	65
275.00	12104	315.00	408	352.00	340	421.05	288
276.00	1723	316.05	231	352.95	168	422.05	205
277.05	1144	321.00	68	354.00	412	423.00	1701

Average of 2.723 to 2.733 min.: F35905.D

dftpp

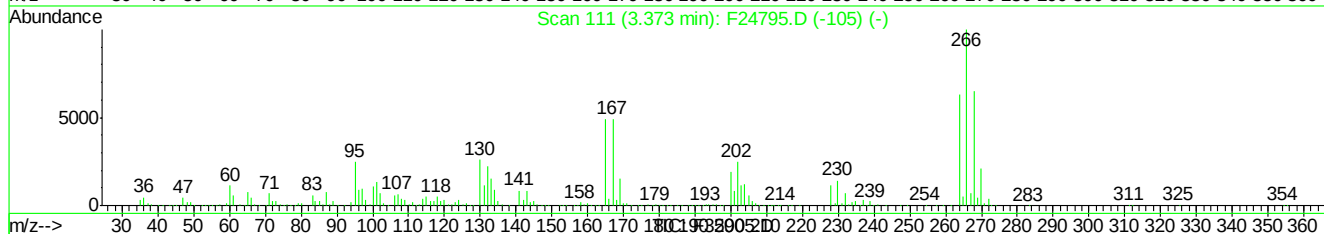
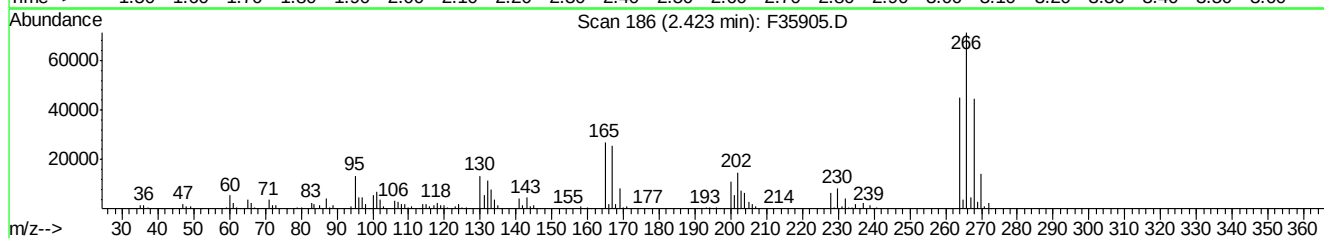
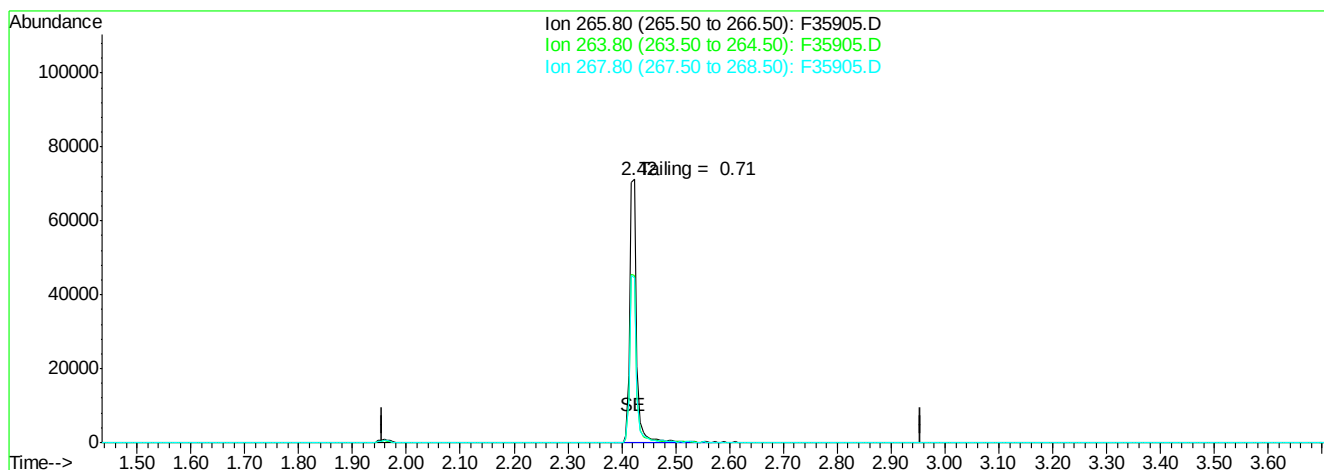
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
424.05	277						
441.00	5976						
442.05	38349						
443.00	7588						
444.05	746						

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF5692\F35905.D Vial: 1
 Acq On : 11 Jun 2014 8:23 pm Operator: ashleyd
 Sample : dftpp Inst : MSF
 Misc : op74333,ef5692 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 11 20:33 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPPF.M (RTE Integrator)
 Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 Last Update : Mon Apr 14 11:03:43 2014
 Response via : Multiple Level Calibration



(1) Pentachlorophenol (t)

2.42min 34.16ppb

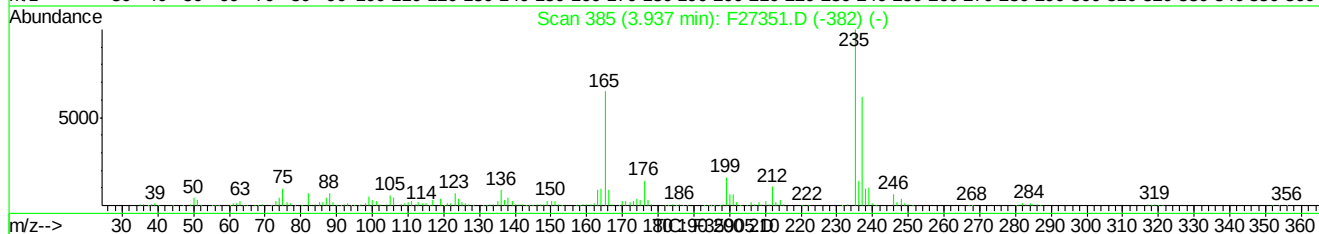
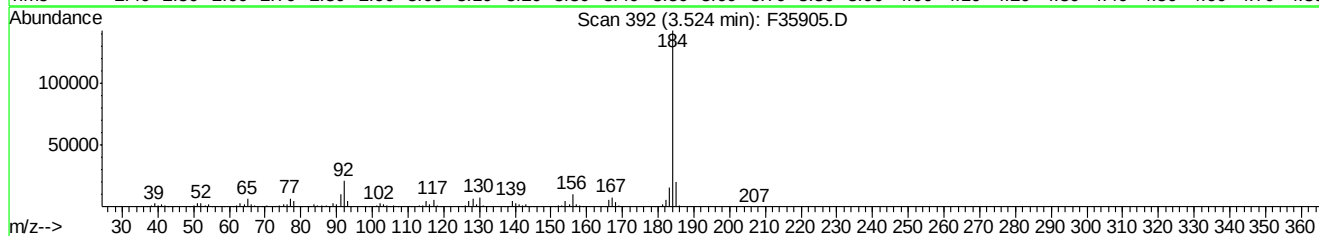
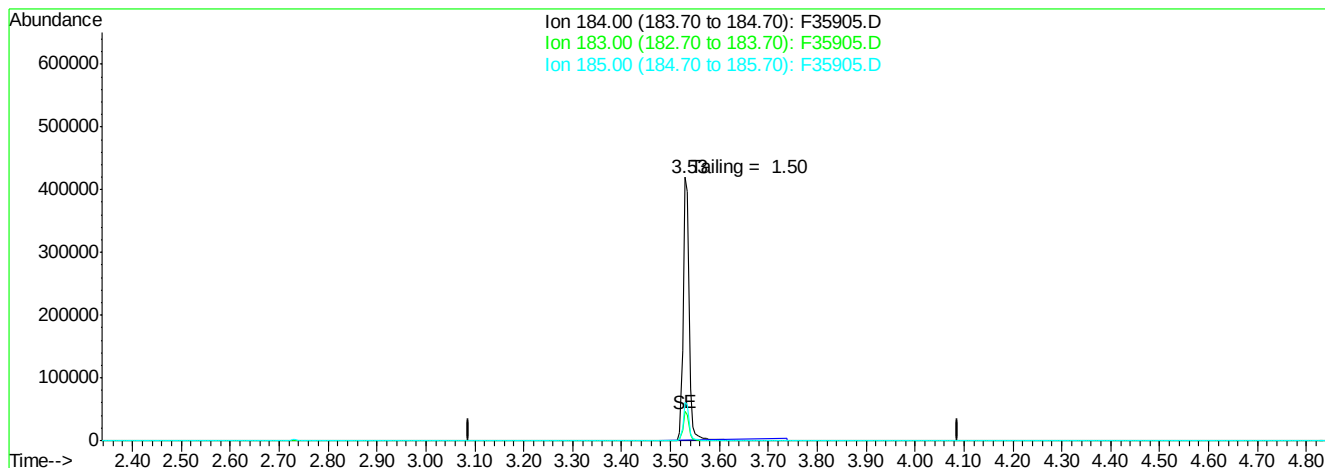
response 63493

Ion	Exp%	Act%
265.80	100	100
263.80	63.00	63.46
267.80	64.80	62.64
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF5692\F35905.D Vial: 1
Acq On : 11 Jun 2014 8:23 pm Operator: ashleyd
Sample : dftpp Inst : MSF
Misc : op74333,ef5692 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 11 20:33 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPPF.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
Last Update : Mon Apr 14 11:03:43 2014
Response via : Multiple Level Calibration



(2) Benzidine (t)

3.53min 19.16ppb

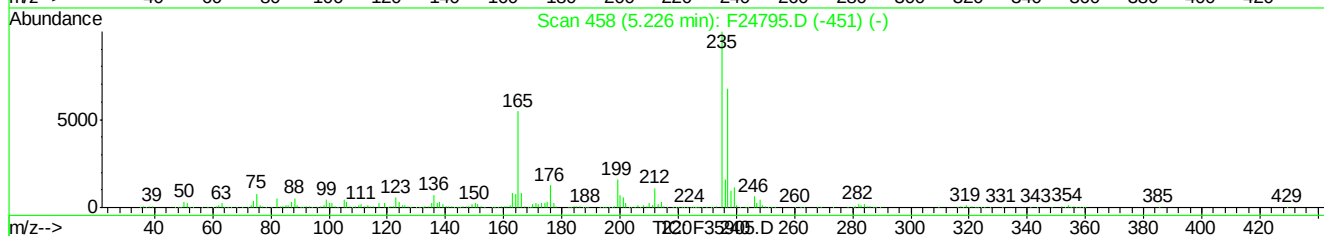
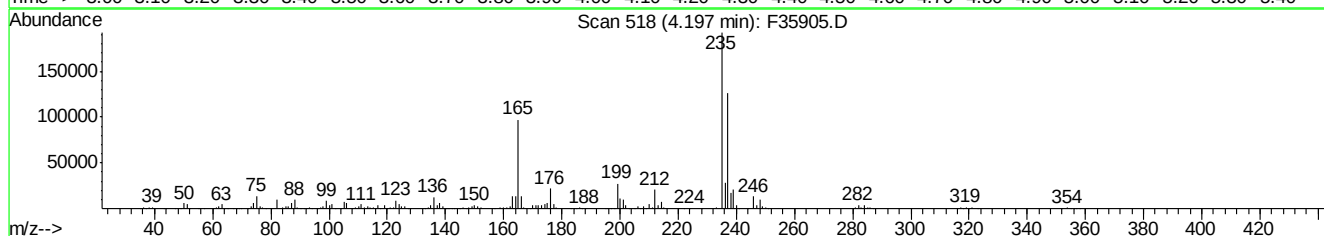
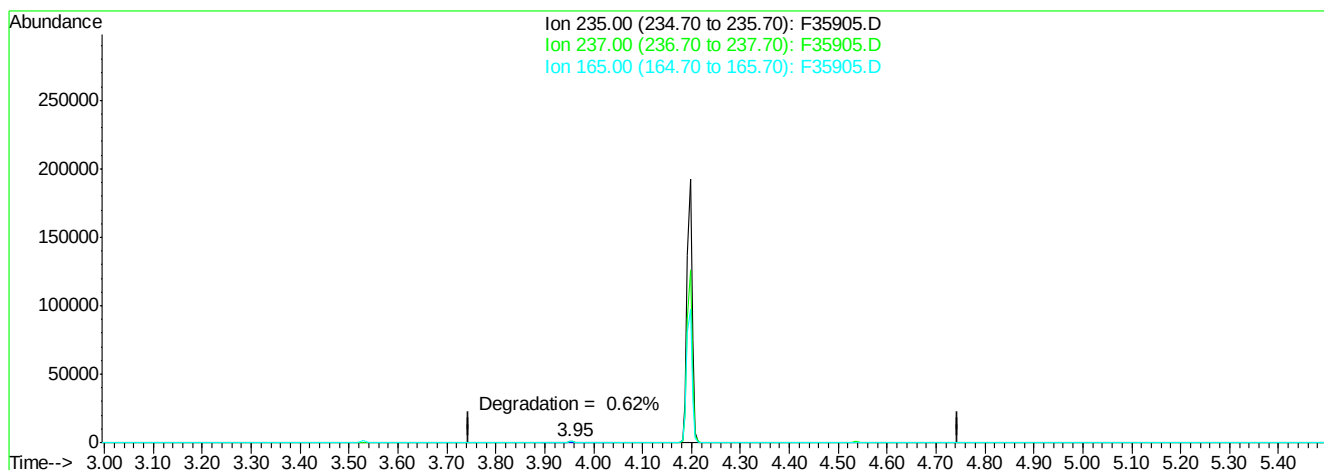
response 358976

Ion	Exp%	Act%
184.00	100	100
183.00	12.60	10.83
185.00	16.20	14.31
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF5692\F35905.D Vial: 1
Acq On : 11 Jun 2014 8:23 pm Operator: ashleyd
Sample : dftpp Inst : MSF
Misc : op74333,ef5692 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 11 20:33 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPPF.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
Last Update : Mon Apr 14 11:03:43 2014
Response via : Single Level Calibration



(3) ddt (t)

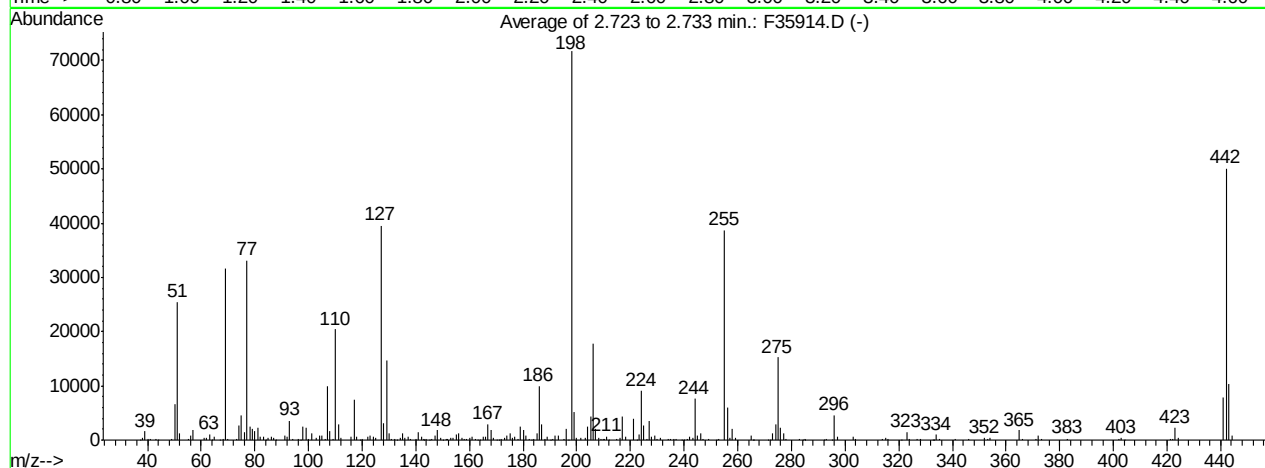
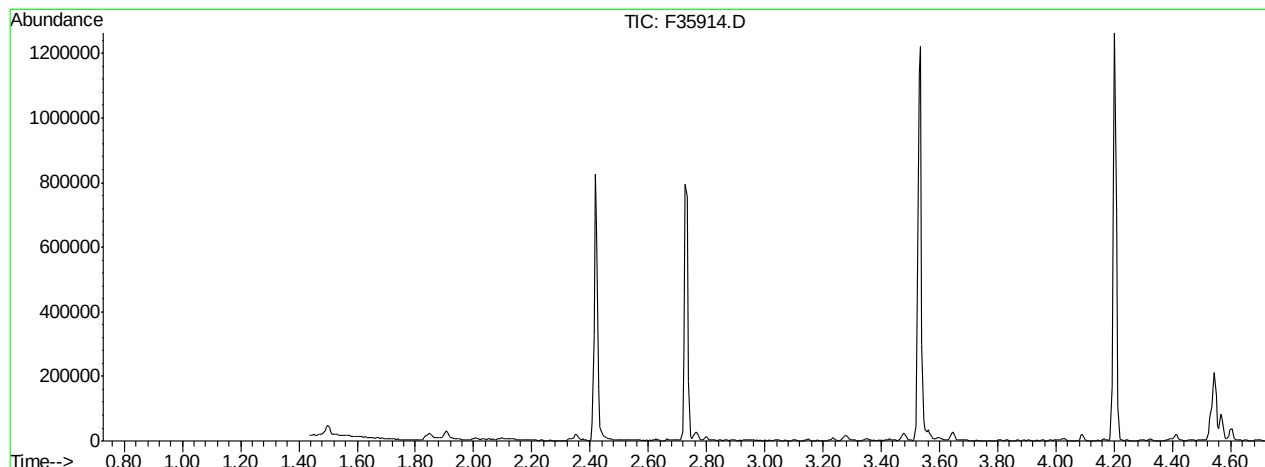
4.20min 9.16ppb

response 142174

Ion	Exp%	Act%
235.00	100	100
237.00	66.70	65.48
165.00	59.50	52.98
0.00	0.00	0.00

DFTPP

Data File : C:\MSDCHEM\1\DATA\EF5693\F35914.D Vial: 1
 Acq On : 12 Jun 2014 8:50 am Operator: ashleyd
 Sample : dftpp Inst : MSF
 Misc : op74333,ef5693 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Method : C:\MSDCHEM\1\METHODS\DFTPPF.M (RTE Integrator)
 Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um



AutoFind: Scans 242, 243, 244; Background Corrected with Scan 238

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result
						Pass/Fail
51	198	30	60	35.6	25505	PASS
68	69	0.00	2	0.8	254	PASS
69	198	0.00	100	44.2	31648	PASS
70	69	0.00	2	0.5	153	PASS
127	198	40	60	55.2	39592	PASS
197	198	0.00	1	0.1	54	PASS
198	198	100	100	100.0	71669	PASS
199	198	5	9	7.1	5085	PASS
275	198	10	30	21.3	15287	PASS
365	198	1	100	2.6	1838	PASS
441	443	0.10	100	77.5	7950	PASS
442	198	40	100	69.9	50114	PASS
443	442	17	23	20.5	10255	PASS

Average of 2.723 to 2.733 min.: F35914.D

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
37.10	61	55.05	275	70.00	153	83.05	584
38.10	414	56.10	766	73.05	291	84.00	68
39.10	1639	57.05	1808	74.10	2732	85.00	448
40.00	152	61.05	334	75.05	4624	86.05	668
41.05	227	62.05	380	76.10	1427	87.05	440
43.05	156	63.10	1066	77.05	33141	88.00	81
44.00	12	64.00	62	78.10	2518	91.05	784
49.05	277	65.05	625	79.00	2078	92.05	572
50.10	6634	67.10	54	80.00	1660	93.00	3540
51.10	25505	68.05	254	81.00	2209	94.00	265
52.10	1311	69.00	31648	82.00	660	96.05	158

Average of 2.723 to 2.733 min.: F35914.D

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
97.00	64	109.10	143	124.00	534	136.05	385
98.00	2485	110.00	20386	125.05	463	137.05	671
99.00	2212	111.05	2935	127.00	39592	138.05	134
100.05	285	112.00	451	128.05	3014	140.05	156
101.00	1239	115.95	578	129.00	14616	141.05	1535
103.00	425	117.00	7552	130.05	1285	142.05	576
104.00	781	118.00	597	131.00	299	142.80	78
105.00	883	119.10	62	132.05	154	143.00	298
106.05	226	119.95	129	132.80	51	143.95	143
107.00	10025	122.00	565	134.00	349	144.90	65
108.00	1667	123.05	909	135.00	1194	145.95	303

Average of 2.723 to 2.733 min.: F35914.D

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
147.05	873	157.95	249	169.05	353	180.00	1777
148.00	1831	159.05	215	170.10	62	181.05	887
149.05	429	160.05	479	171.00	64	182.05	152
150.10	77	160.95	714	172.00	266	183.10	67
151.15	285	162.05	255	173.00	384	184.00	206
151.95	156	163.00	68	174.05	798	185.00	1180
153.05	517	164.00	74	175.00	1350	186.00	9964
154.05	426	165.00	572	176.05	491	187.05	2909
155.00	987	166.00	537	176.95	608	188.05	244
156.10	1308	167.00	2911	178.10	213	189.00	624
157.15	333	168.00	1781	179.00	2435	190.00	53

Average of 2.723 to 2.733 min.: F35914.D

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
191.05	268	204.00	2460	216.00	347	229.00	741
192.05	778	205.05	4277	217.00	4404	229.95	156
193.00	900	206.10	17831	218.00	571	231.05	383
195.05	125	207.00	2159	221.00	3890	233.95	270
196.00	2146	208.00	509	222.20	55	235.00	302
196.70	54	209.00	186	223.00	1096	235.95	134
198.00	71669	210.00	112	224.10	9088	237.00	252
198.95	5085	210.30	242	225.05	2632	239.00	85
200.00	426	211.15	669	226.00	257	240.05	105
201.55	413	211.90	92	227.00	3608	241.00	186
202.95	459	215.00	168	228.00	574	242.00	541

Average of 2.723 to 2.733 min.: F35914.D

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
243.10	506	258.00	2004	277.00	1230	303.05	550
244.10	7580	259.00	372	277.95	204	304.00	119
245.05	904	265.00	744	283.00	145	314.05	187
246.00	1232	265.80	73	284.00	82	315.00	391

246.90	224	266.00	96	284.90	52	316.00	241
249.00	292	271.10	54	285.05	177	321.00	102
252.10	58	272.10	51	292.10	61	323.00	1477
252.95	209	273.00	1175	293.00	268	324.05	290
255.00	38756	274.00	2998	294.90	83	327.00	268
256.00	5970	275.00	15287	296.00	4575	328.00	211
257.05	454	276.00	2219	296.95	584	332.80	67

Average of 2.723 to 2.733 min.: F35914.D

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
333.00	68	372.05	749	442.00	50114		
334.00	1012	373.00	161	443.00	10255		
335.00	194	382.95	223	444.05	918		
341.05	183	402.00	248				
346.00	309	402.95	415				
352.05	328	403.90	77				
353.05	253	421.05	287				
354.05	384	422.00	315				
365.00	1838	423.00	2261				
366.00	230	424.00	512				
371.05	122	441.00	7950				

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF5693\F35914.D

Vial: 1

Acq On : 12 Jun 2014 8:50 am

Operator: ashleyd

Sample : dftpp

Inst : MSF

Misc : op74333,ef5693

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Jun 12 8:56 2014

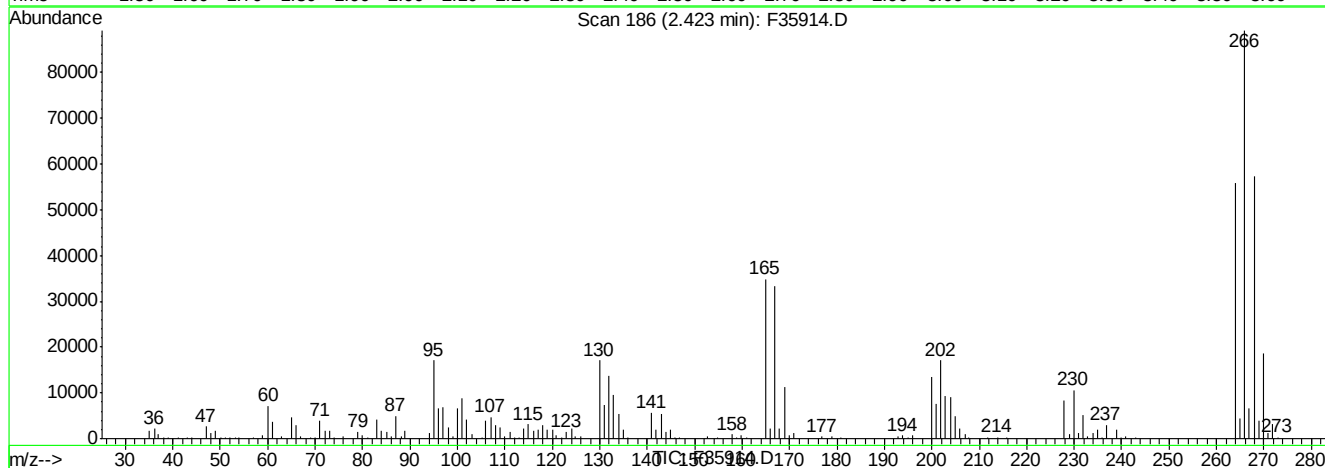
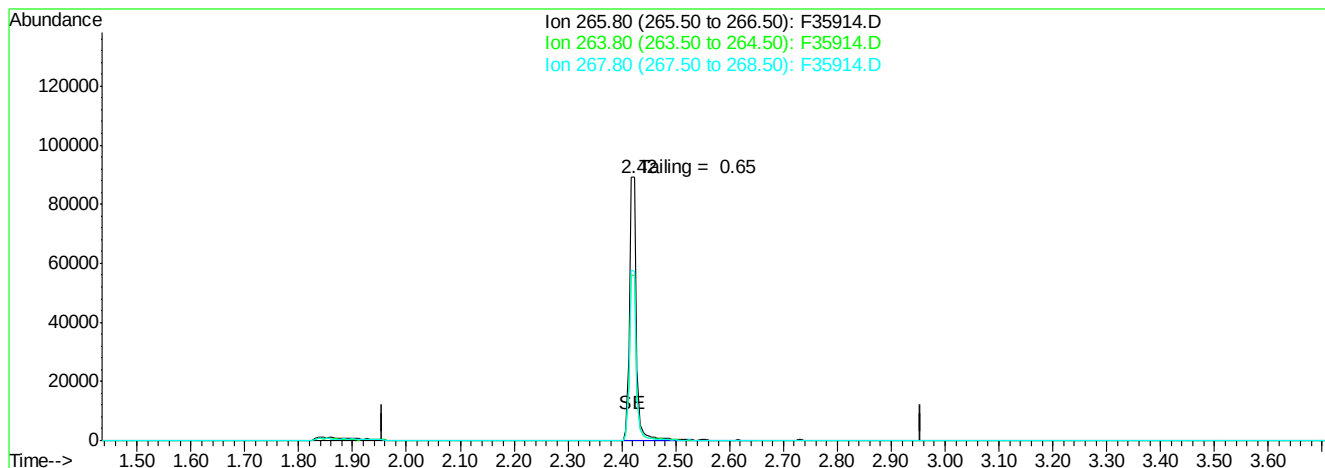
Quant Results File: temp.res

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

Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um

Last Update : Mon Apr 14 11:03:43 2014

Response via : Multiple Level Calibration



(1) Pentachlorophenol (t)

2.42min 43.60ppb

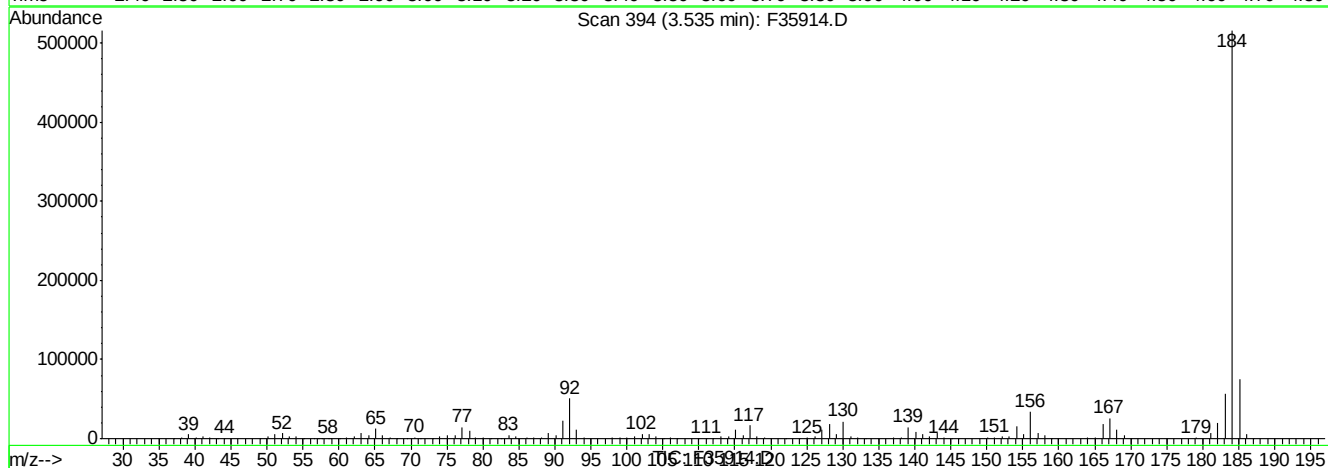
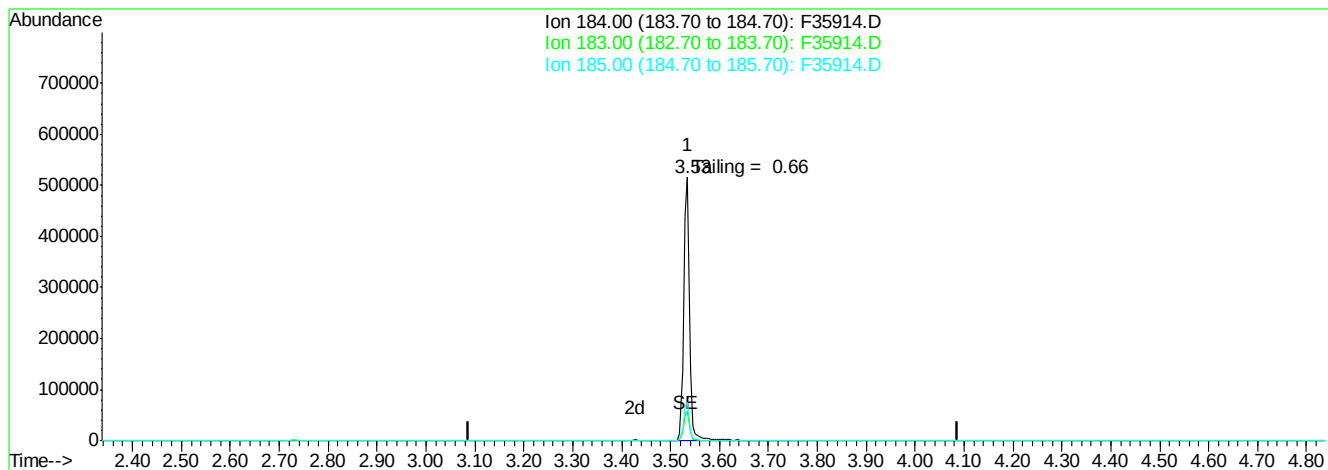
response 81054

Ion	Exp%	Act%
265.80	100	100
263.80	63.00	62.65
267.80	64.80	64.27
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF5693\F35914.D Vial: 1
Acq On : 12 Jun 2014 8:50 am Operator: ashleyd
Sample : dftpp Inst : MSF
Misc : op74333,ef5693 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 12 8:56 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPPF.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
Last Update : Mon Apr 14 11:03:43 2014
Response via : Multiple Level Calibration



(2) Benzidine (t)

3.53min 22.65ppb

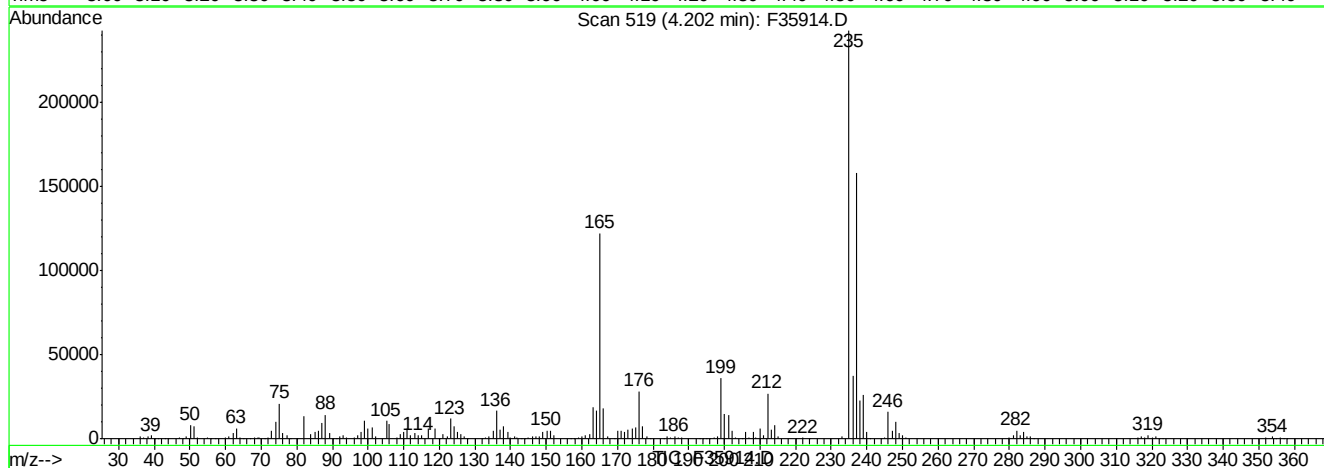
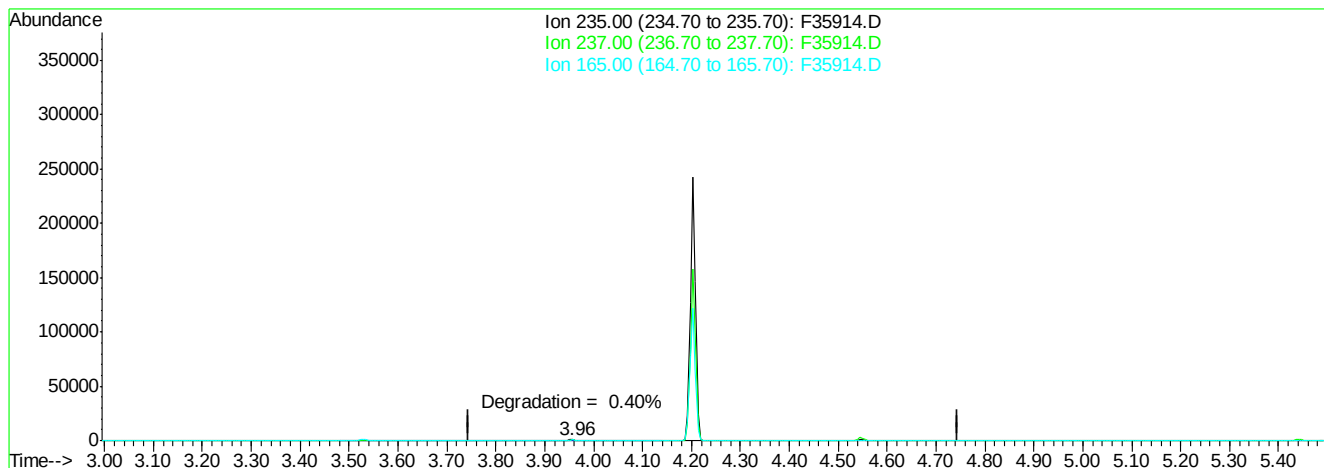
response 424392

Ion	Exp%	Act%
184.00	100	100
183.00	12.60	11.01
185.00	16.20	14.82
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF5693\F35914.D Vial: 1
Acq On : 12 Jun 2014 8:50 am Operator: ashleyd
Sample : dftpp Inst : MSF
Misc : op74333,ef5693 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 12 8:56 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPPF.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
Last Update : Mon Apr 14 11:03:43 2014
Response via : Single Level Calibration



(3) ddt (t)

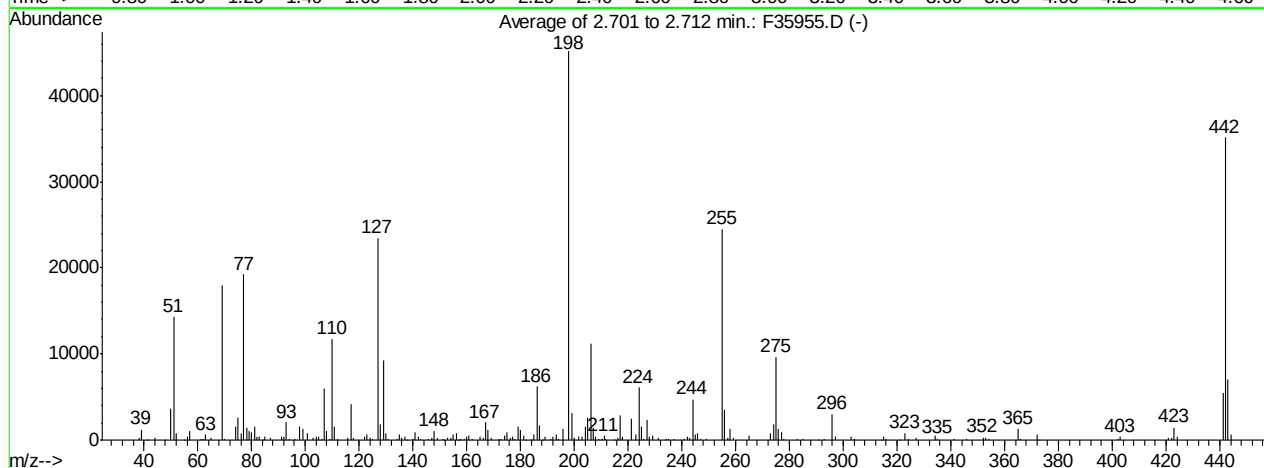
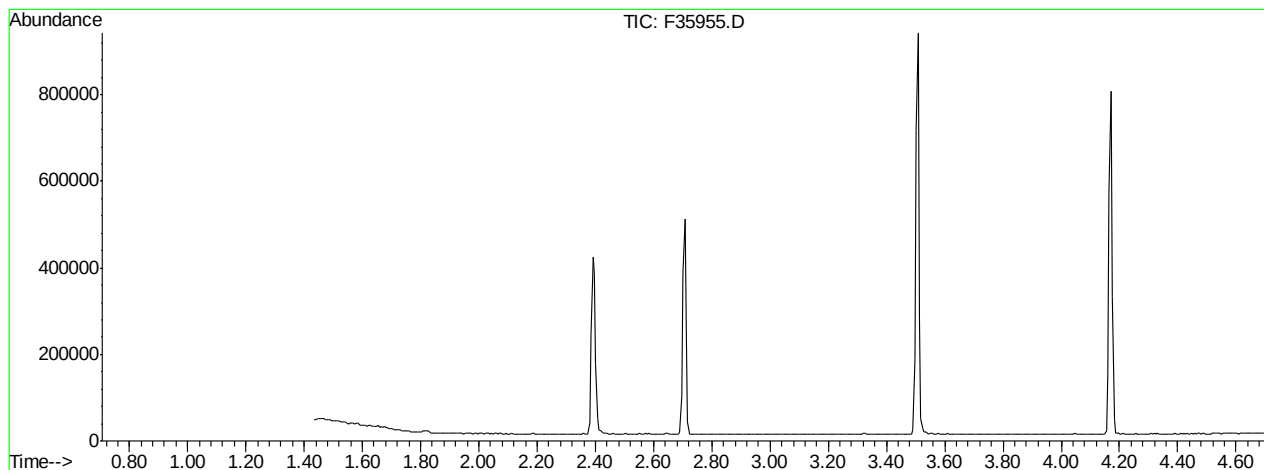
4.20min 11.70ppb

response 181741

Ion	Exp%	Act%
235.00	100	100
237.00	66.70	65.63
165.00	59.50	51.78
0.00	0.00	0.00

DFTPP

Data File : C:\MSDCHEM\1\DATA\EF5695\F35955.D Vial: 1
Acq On : 13 Jun 2014 7:31 am Operator: elwiraa
Sample : dftpp Inst : MSF
Misc : op74333,ef5695,1000,,,1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\MSDCHEM\1\METHODS\DFTPPF.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um



AutoFind: Scans 238, 239, 240; Background Corrected with Scan 233

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	31.6	14273	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	39.8	17948	PASS
70	69	0.00	2	0.7	121	PASS
127	198	40	60	52.1	23496	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	45120	PASS
199	198	5	9	6.9	3091	PASS
275	198	10	30	21.5	9685	PASS
365	198	1	100	2.8	1281	PASS
441	443	0.10	100	77.6	5493	PASS
442	198	40	100	77.9	35133	PASS
443	442	17	23	20.2	7083	PASS

Average of 2.701 to 2.712 min.: F35955.D

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
38.10	259	61.00	188	79.10	1111	94.05	127
39.10	1181	62.10	173	80.00	949	96.05	125
41.05	53	63.05	631	81.05	1560	98.00	1592
44.00	232	65.10	323	82.00	362	99.00	1268
48.00	5	69.00	17948	83.00	433	101.00	747
50.10	3591	69.95	121	84.00	53	103.05	212
51.05	14273	74.10	1591	85.00	406	104.00	442
52.10	795	75.05	2625	87.00	239	105.00	400
55.10	15	76.10	842	91.10	371	106.10	75
56.05	419	77.10	19225	92.00	350	107.05	6016
57.10	1048	78.10	1390	93.00	2028	108.00	982

Average of 2.701 to 2.712 min.: F35955.D

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
109.10	102	127.00	23496	141.00	931	154.00	211
110.00	11726	128.00	1803	142.00	416	155.00	651
111.00	1606	129.00	9222	143.00	181	156.10	830
112.05	174	130.00	846	146.00	147	156.90	64
116.00	296	131.00	77	146.90	174	157.10	52
117.00	4218	134.00	90	147.10	281	157.90	176
118.05	323	135.00	615	148.00	1083	158.95	133
122.00	357	136.00	230	149.00	279	160.00	331
123.05	602	137.05	390	151.05	164	161.00	467
124.00	204	138.00	54	151.70	66	162.05	106
125.05	168	140.00	111	152.95	299	165.00	364

Average of 2.701 to 2.712 min.: F35955.D

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
166.05	293	179.00	1525	191.10	86	205.10	2549
167.00	2051	180.00	1168	192.00	435	206.10	11245
168.00	1194	181.05	544	193.10	647	207.10	1407
169.05	267	182.00	50	194.00	94	208.05	427
172.00	148	183.90	68	196.00	1311	209.00	142
173.00	191	184.10	57	198.00	45120	210.20	71
174.00	527	185.05	697	199.00	3091	210.50	126
175.00	865	186.10	6217	200.05	221	211.10	494
176.10	276	187.05	1646	201.50	335	211.60	79
177.00	400	188.10	63	203.00	336	215.00	50
178.05	129	189.05	344	204.05	1539	216.05	240

Average of 2.701 to 2.712 min.: F35955.D

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
217.00	2859	234.00	134	249.00	80	276.00	1344
218.05	366	234.90	94	255.00	24490	277.00	872
221.05	2446	237.05	141	256.00	3535	277.95	120
223.00	604	239.10	57	256.90	102	283.05	108
224.05	6112	240.90	117	257.05	207	285.00	114
225.05	1627	242.00	378	258.05	1271	290.90	51
226.00	129	243.05	280	259.10	246	292.90	170
227.05	2352	244.10	4709	264.95	478	296.00	3004
228.00	339	245.00	618	273.05	818	296.95	400
229.00	509	246.00	772	274.00	1795	303.00	359
231.05	251	246.95	184	275.00	9685	304.00	74

Average of 2.701 to 2.712 min.: F35955.D

dftpp

Modified:subtracted

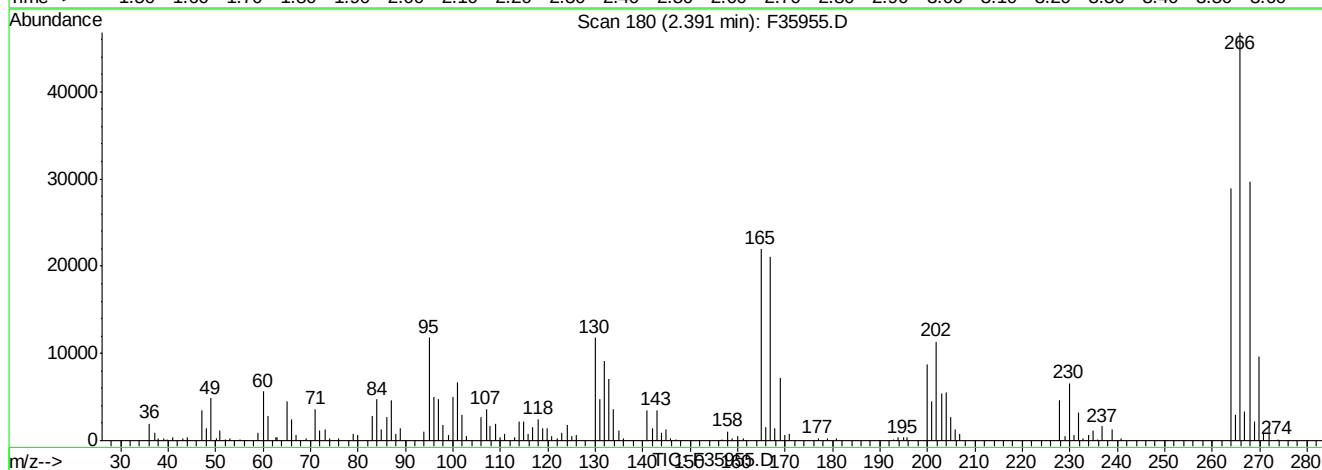
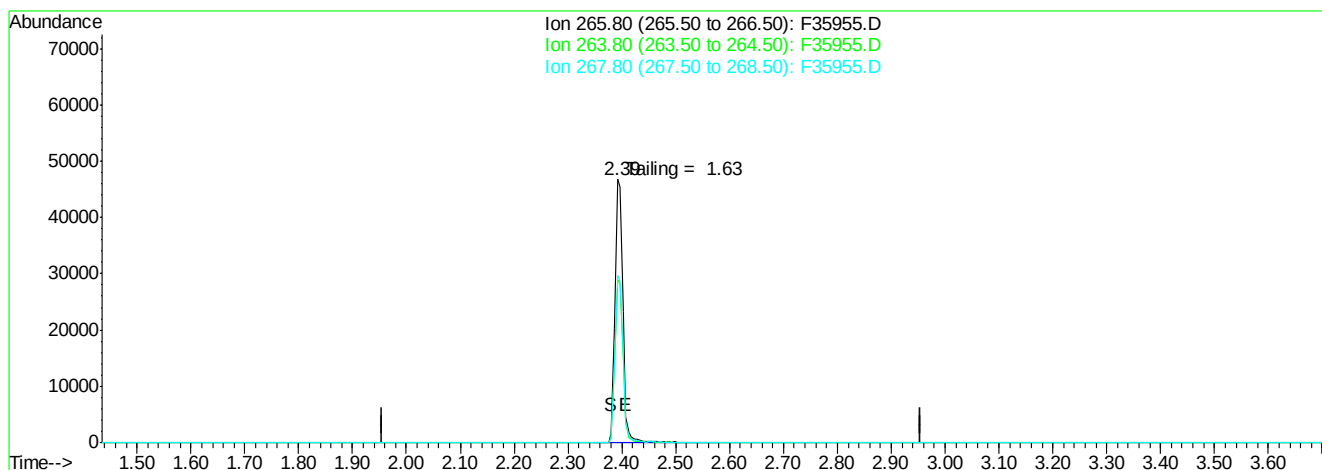
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
314.00	61	352.00	298	423.00	1484		
314.95	361	352.95	213	424.05	415		
316.00	75	354.05	184	441.05	5493		
321.00	61	365.00	1281	442.05	35133		

323.05	815	365.95	141	443.10	7083
324.00	158	371.95	603	444.00	656
326.95	214	373.10	61		
334.05	574	402.05	150		
335.05	166	403.00	342		
341.05	114	421.00	244		
346.00	168	422.00	269		

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF5695\F35955.D Vial: 1
Acq On : 13 Jun 2014 7:31 am Operator: elwiraa
Sample : dftpp Inst : MSF
Misc : op74333,ef5695,1000,,,1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 13 7:49 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPPF.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
Last Update : Mon Apr 14 11:03:43 2014
Response via : Multiple Level Calibration



(1) Pentachlorophenol (t)

2.39min 25.50ppb

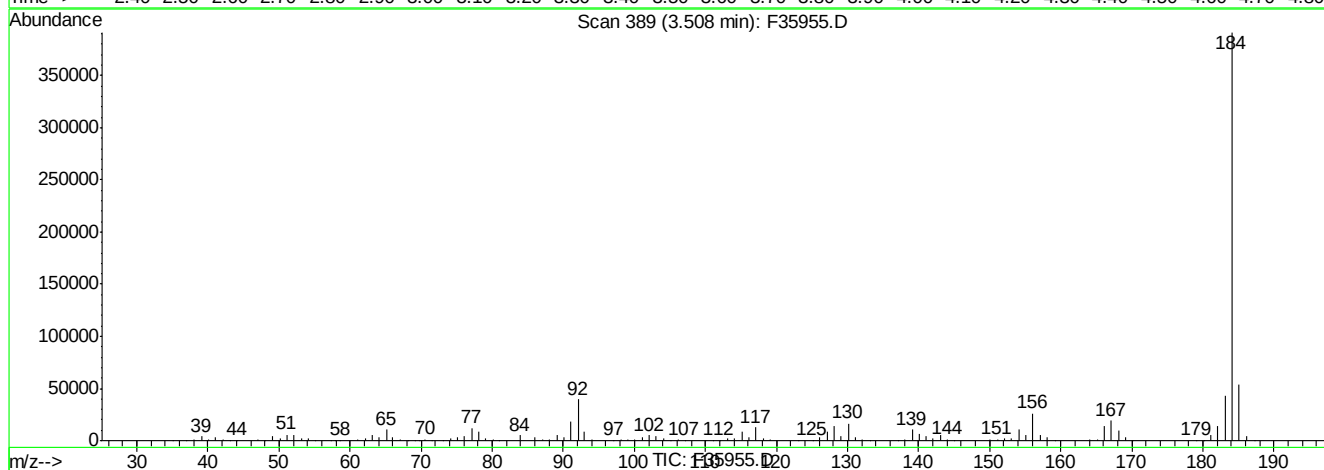
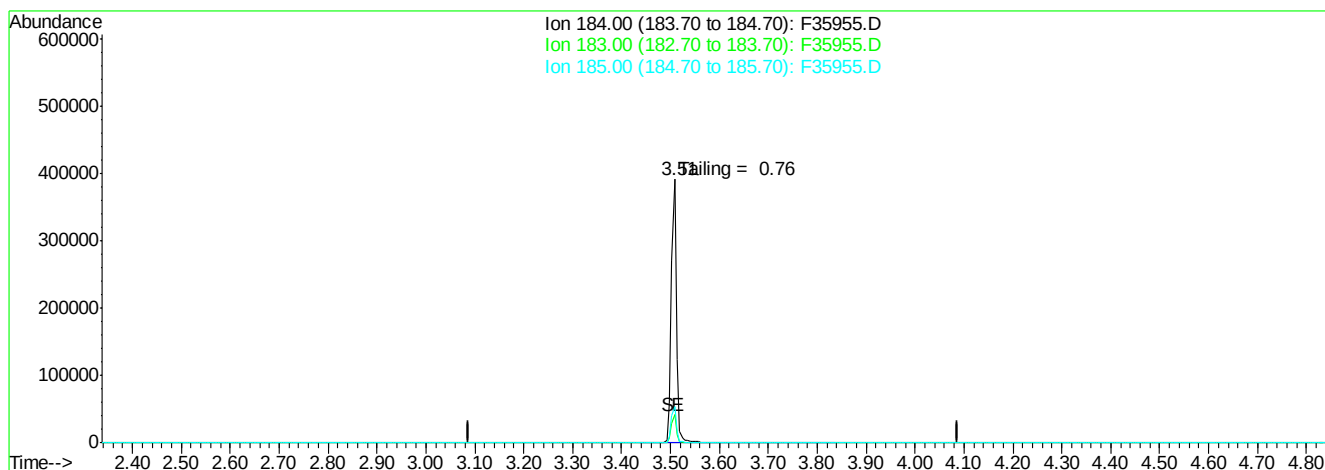
response 47407

Ion	Exp%	Act%
265.80	100	100
263.80	63.00	61.79
267.80	64.80	63.27
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF5695\F35955.D Vial: 1
Acq On : 13 Jun 2014 7:31 am Operator: elwiraa
Sample : dftpp Inst : MSF
Misc : op74333,ef5695,1000,,,1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 13 7:49 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPPF.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
Last Update : Mon Apr 14 11:03:43 2014
Response via : Multiple Level Calibration



(2) Benzidine (t)

3.51min 15.22ppb

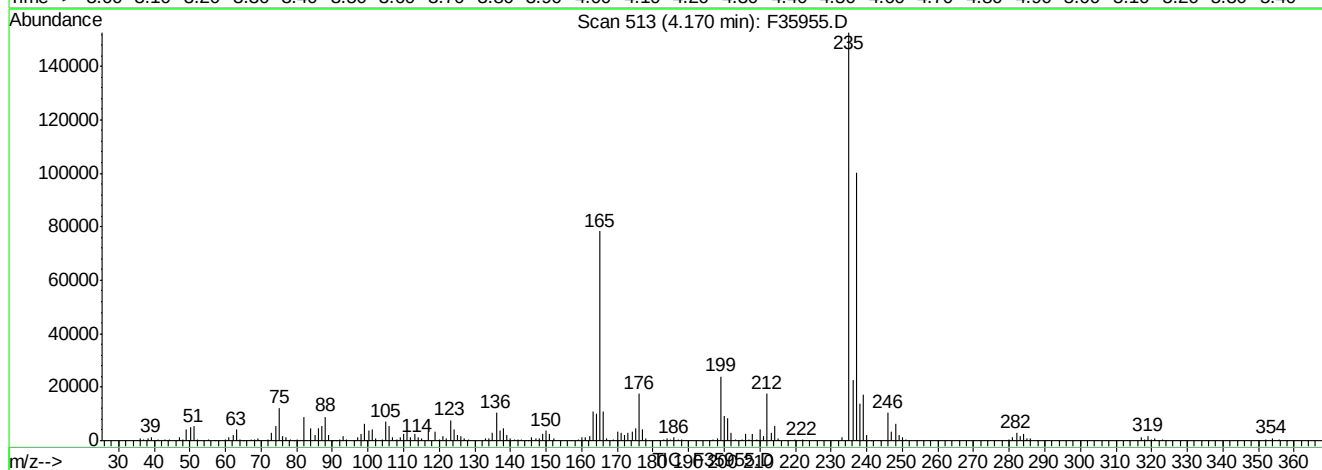
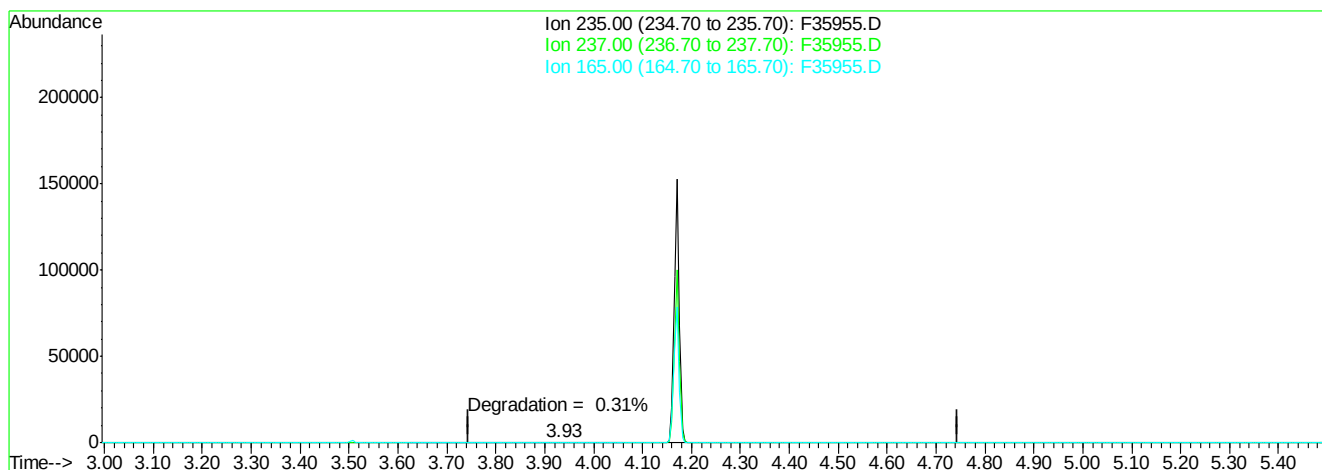
response 285112

Ion	Exp%	Act%
184.00	100	100
183.00	12.60	10.61
185.00	16.20	13.95
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF5695\F35955.D Vial: 1
Acq On : 13 Jun 2014 7:31 am Operator: elwiraa
Sample : dftpp Inst : MSF
Misc : op74333,ef5695,1000,,,1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 13 7:49 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPPF.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
Last Update : Mon Apr 14 11:03:43 2014
Response via : Single Level Calibration



(3) ddt (t)

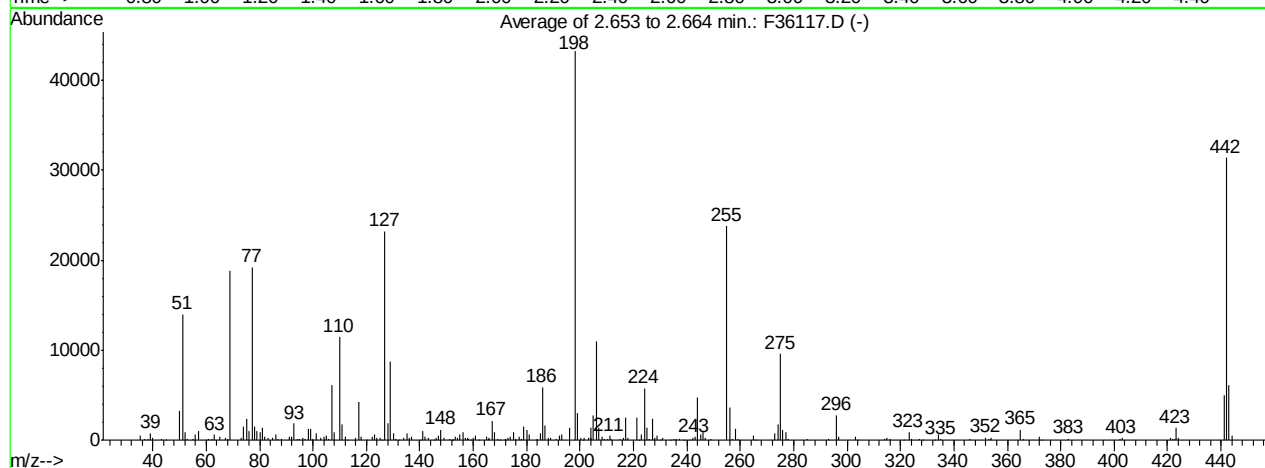
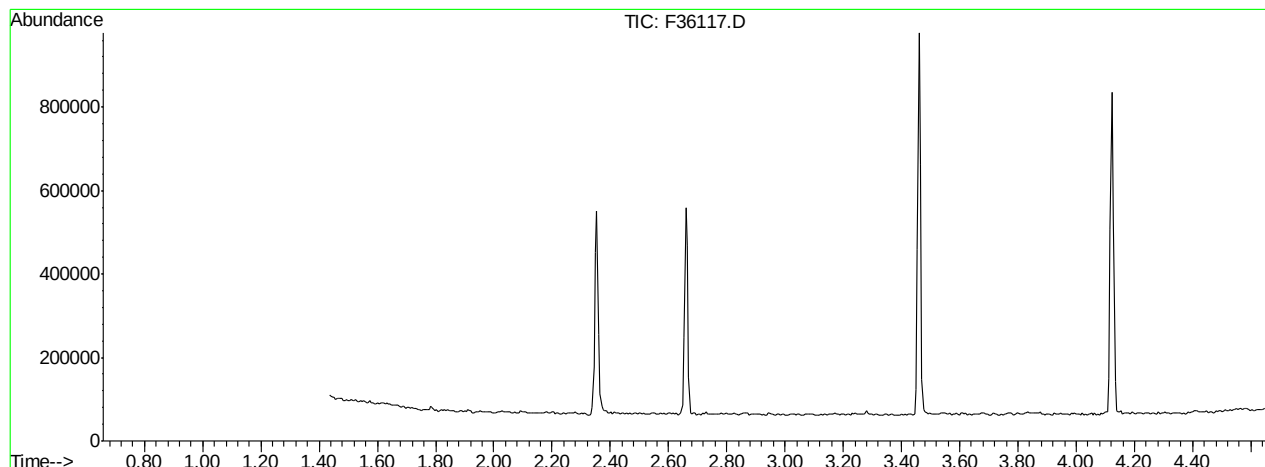
4.17min 7.16ppb

response 111242

Ion	Exp%	Act%
235.00	100	100
237.00	66.70	65.41
165.00	59.50	52.97
0.00	0.00	0.00

DFTPP

Data File : C:\MSDCHEM\1\DATA\EF5702\F36117.D Vial: 1
 Acq On : 18 Jun 2014 8:02 pm Operator: ashleyd
 Sample : dftpp Inst : MSF
 Misc : op74333,ef5702 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Method : C:\MSDCHEM\1\METHODS\DFTPPF.M (RTE Integrator)
 Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um



AutoFind: Scans 229, 230, 231; Background Corrected with Scan 225

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	32.3	13983	PASS
68	69	0.00	2	1.0	183	PASS
69	198	0.00	100	43.6	18832	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	53.8	23256	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	43232	PASS
199	198	5	9	6.8	2958	PASS
275	198	10	30	22.1	9565	PASS
365	198	1	100	2.7	1150	PASS
441	443	0.10	100	82.3	5028	PASS
442	198	40	100	72.6	31391	PASS
443	442	17	23	19.5	6109	PASS

Average of 2.653 to 2.664 min.: F36117.D

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.10	562	55.05	125	73.00	262	85.00	306
37.00	190	56.05	629	74.05	1530	86.00	668
38.05	106	57.05	1059	75.00	2378	86.95	95
39.10	806	60.00	57	76.10	998	88.00	83
40.00	196	61.05	170	77.10	19243	91.00	329
43.10	85	62.00	183	78.10	1456	92.00	353
45.10	50	63.05	611	79.05	997	93.00	1846
50.05	3302	65.10	337	80.00	871	94.00	126
51.05	13983	67.05	197	81.00	1386	95.10	93
52.10	842	68.10	183	82.00	370	96.00	194
53.00	76	69.00	18832	83.00	212	97.10	171

Average of 2.653 to 2.664 min.: F36117.D

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
98.05	1287	111.05	1784	126.00	54	140.10	54
99.00	1307	111.95	338	127.00	23256	141.00	1031
99.90	70	113.00	54	128.10	1864	141.95	334
101.00	789	116.05	302	129.00	8728	143.05	283
103.00	313	117.00	4216	130.00	780	145.10	53
104.05	397	118.00	406	131.10	139	146.00	210
105.00	485	120.00	60	132.10	56	146.95	533
106.00	180	122.00	432	134.00	203	148.00	1136
107.00	6088	123.05	643	135.00	723	149.00	204
108.05	916	123.95	290	136.05	282	151.05	129
110.00	11425	125.05	302	137.05	389	151.90	63

Average of 2.653 to 2.664 min.: F36117.D

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
152.20	53	162.10	55	174.00	418	186.00	5877
153.05	350	165.05	405	175.05	877	187.00	1659
153.90	230	165.90	92	176.00	190	188.05	207
155.00	568	166.05	248	177.00	335	189.00	306
156.05	913	167.00	2130	178.00	170	190.95	133
157.00	234	168.00	902	179.00	1519	192.10	472
157.85	212	169.05	180	180.00	1080	193.05	582
158.30	82	170.10	67	181.00	685	196.00	1408
159.00	65	171.60	54	183.90	69	198.00	43232
159.95	286	172.00	100	184.10	54	199.00	2958
161.00	552	173.00	230	185.05	705	200.10	201

Average of 2.653 to 2.664 min.: F36117.D

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
200.90	61	211.00	488	226.05	146	241.00	64
201.50	216	211.70	140	227.00	2395	242.05	301
203.05	225	214.95	101	228.05	273	243.05	338
203.90	201	216.10	199	229.00	559	244.10	4728
204.05	1320	217.00	2553	230.10	56	245.05	670
205.05	2731	218.00	310	231.05	261	246.00	855
206.10	10988	221.05	2518	234.00	57	246.95	216
207.05	1347	222.10	63	235.05	135	249.00	168
208.05	395	222.95	577	236.00	122	255.00	23769
208.95	137	224.10	5800	237.00	166	256.00	3678
210.40	135	225.05	1412	239.00	50	257.00	188

Average of 2.653 to 2.664 min.: F36117.D

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
258.00	1220	292.95	160	327.05	134	372.05	439
259.00	191	296.00	2797	328.10	61	372.90	57
265.05	468	297.00	430	332.80	53	383.00	132
265.90	50	303.00	326	334.10	603	402.10	150

273.00	708	304.10	52	335.10	86	402.95	196
274.00	1705	314.05	161	346.00	173	421.00	246
275.00	9565	314.90	299	352.00	273	421.90	138
276.00	1184	316.05	150	353.05	186	422.90	102
277.00	825	321.00	60	354.05	258	423.05	1345
278.05	146	323.05	911	365.00	1150	424.10	245
285.00	129	324.00	145	366.00	149	441.10	5028

Average of 2.653 to 2.664 min.: F36117.D

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
442.05	31391						
443.10	6109						
444.00	545						

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF5702\F36117.D

Vial: 1

Acq On : 18 Jun 2014 8:02 pm

Operator: ashleyd

Sample : dftpp

Inst : MSF

Misc : op74333,ef5702

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Jun 18 20:16 2014

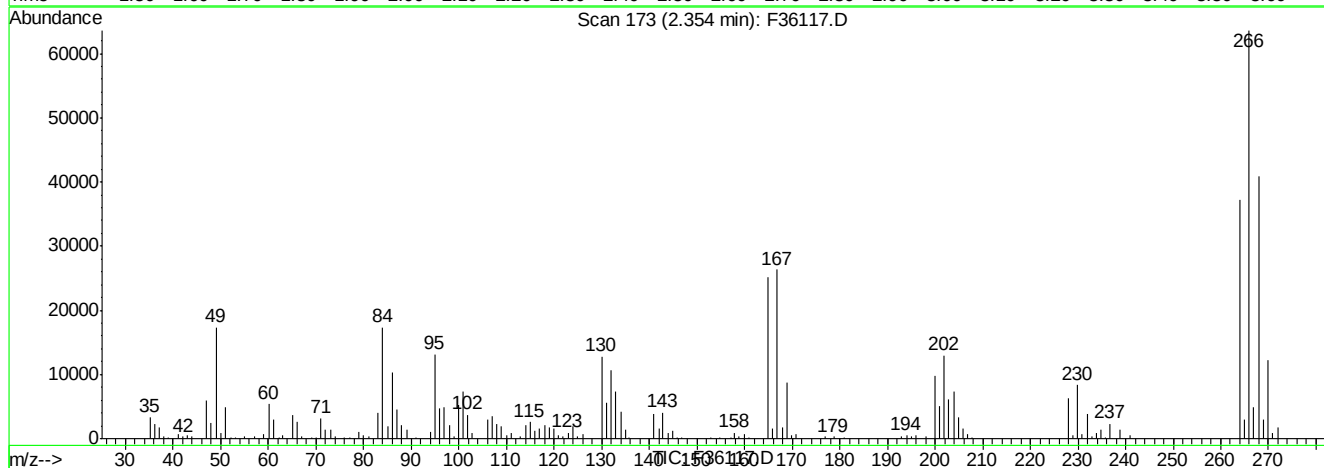
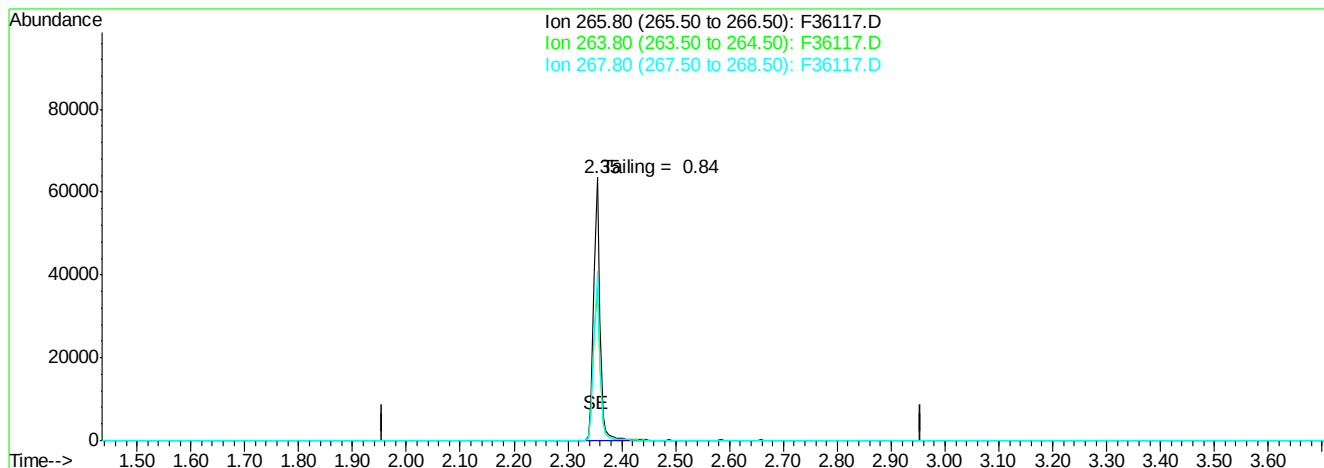
Quant Results File: temp.res

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

Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um

Last Update : Mon Apr 14 11:03:43 2014

Response via : Multiple Level Calibration



(1) Pentachlorophenol (t)

2.35min 27.25ppb

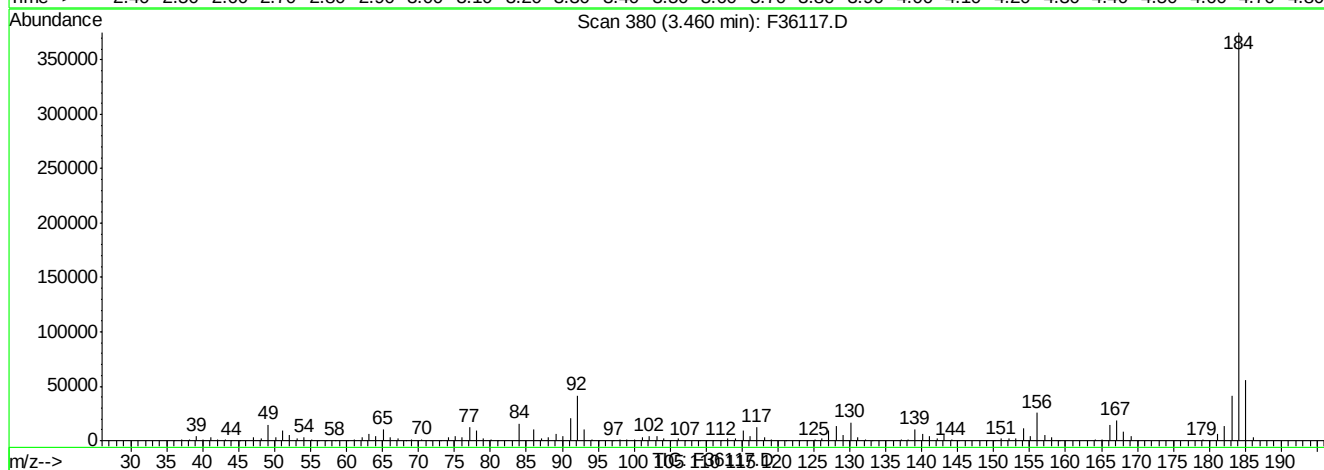
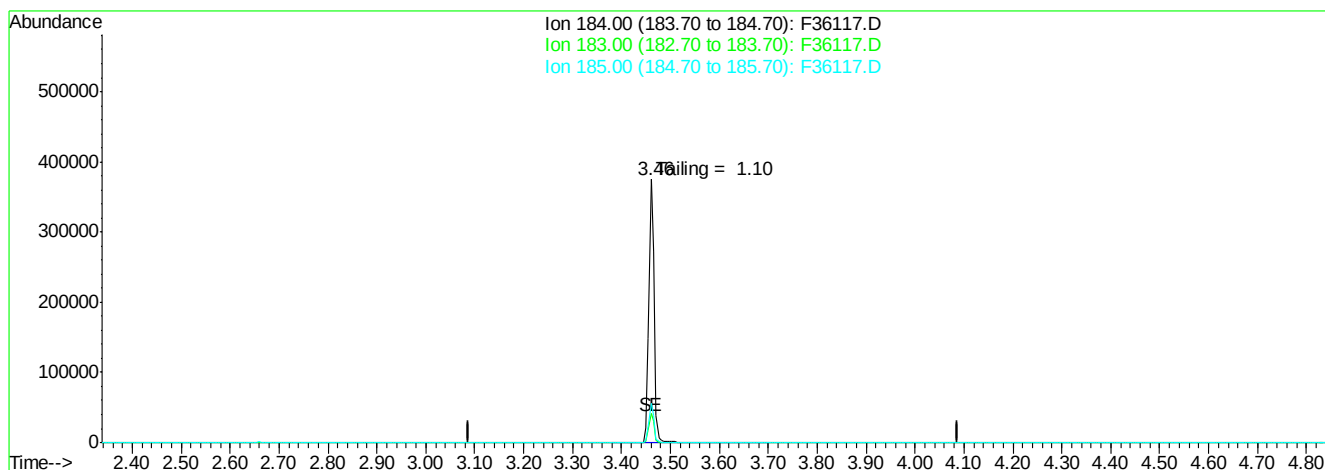
response 50657

Ion	Exp%	Act%
265.80	100	100
263.80	63.00	58.59
267.80	64.80	64.24
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF5702\F36117.D Vial: 1
Acq On : 18 Jun 2014 8:02 pm Operator: ashleyd
Sample : dftpp Inst : MSF
Misc : op74333,ef5702 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 18 20:16 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPPF.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
Last Update : Mon Apr 14 11:03:43 2014
Response via : Multiple Level Calibration



(2) Benzidine (t)

3.46min 14.98ppb

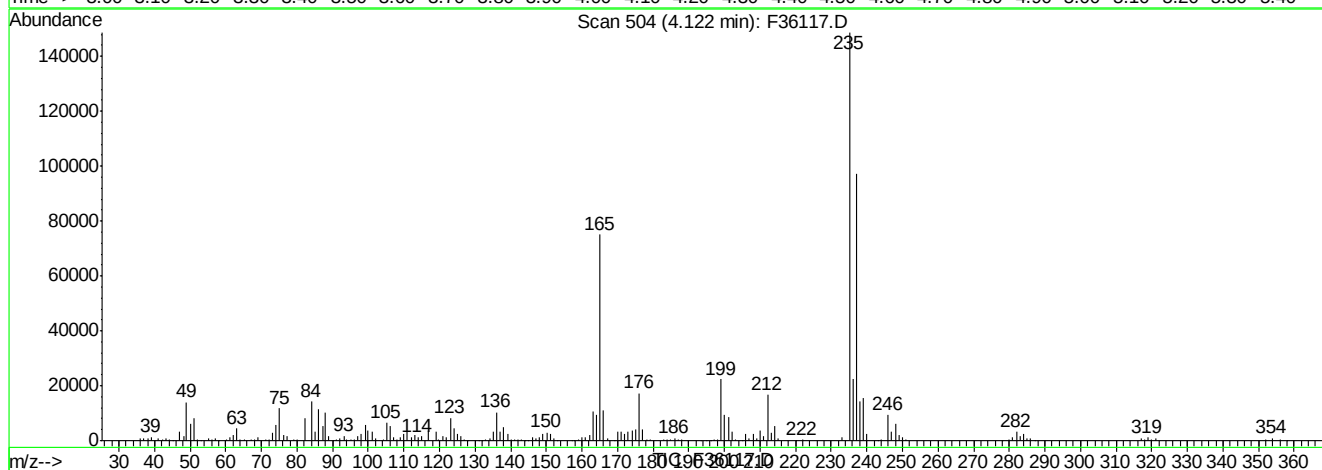
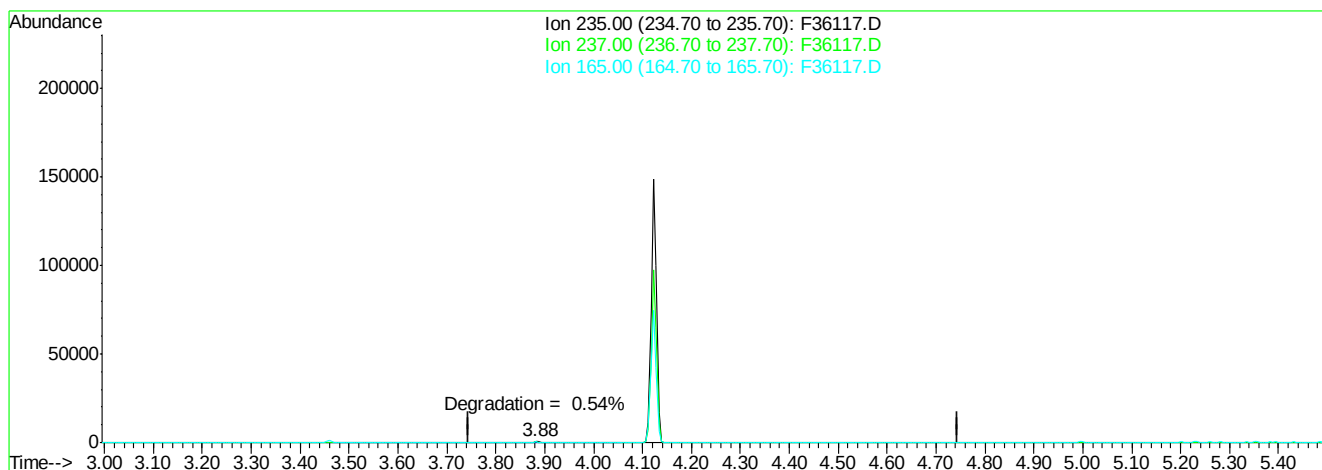
response 280705

Ion	Exp%	Act%
184.00	100	100
183.00	12.60	10.95
185.00	16.20	14.67
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF5702\F36117.D Vial: 1
Acq On : 18 Jun 2014 8:02 pm Operator: ashleyd
Sample : dftpp Inst : MSF
Misc : op74333,ef5702 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 18 20:16 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPPF.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
Last Update : Mon Apr 14 11:03:43 2014
Response via : Single Level Calibration



(3) ddt (t)

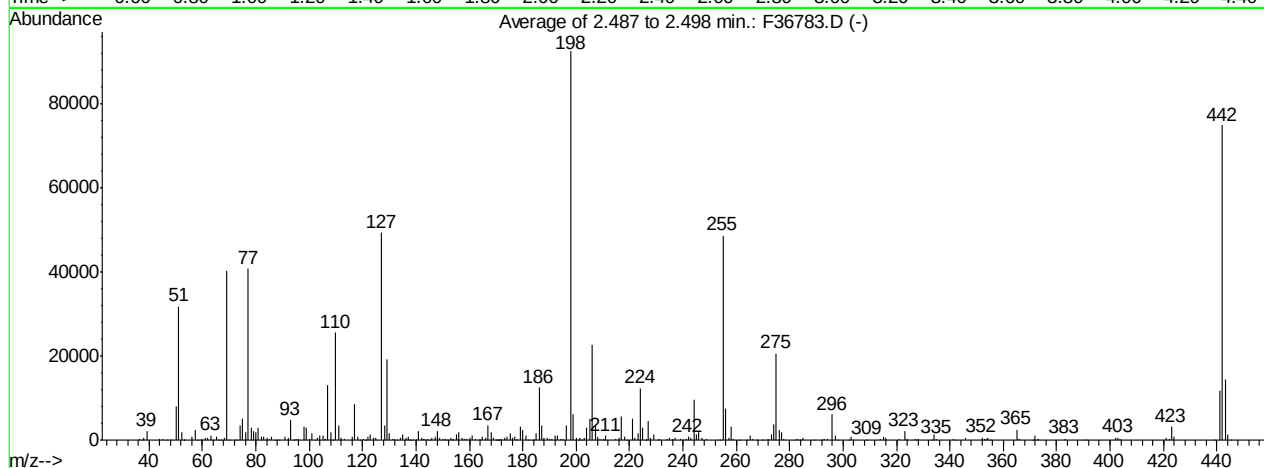
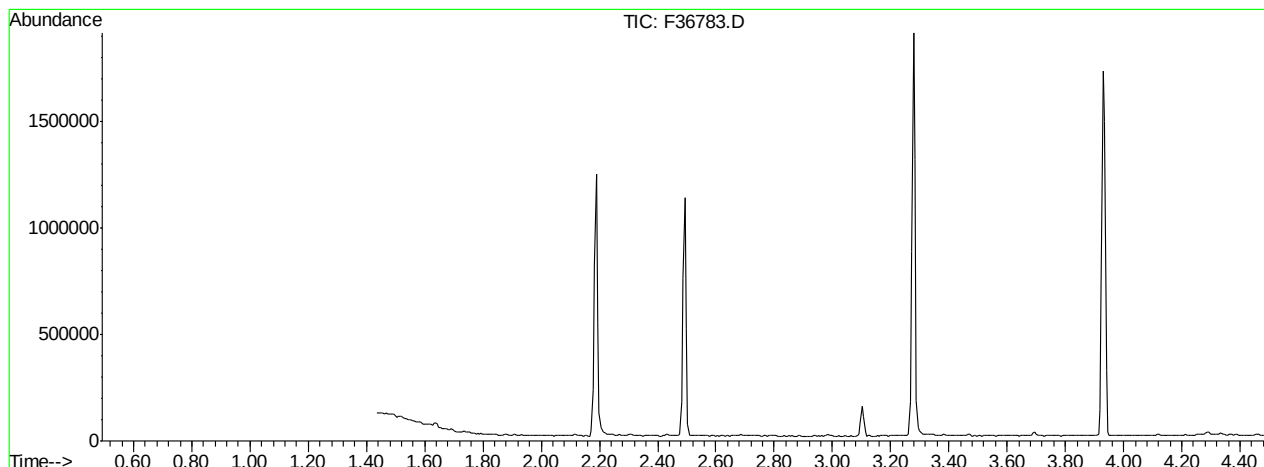
4.12min 7.32ppb

response 113691

Ion	Exp%	Act%
235.00	100	100
237.00	66.70	64.99
165.00	59.50	50.81
0.00	0.00	0.00

DFTPP

Data File : C:\MSDCHEM\1\DATA\EF5726\F36783.D Vial: 1
Acq On : 6 Jul 2014 1:28 pm Operator: ashleyd
Sample : dftpp Inst : MSF
Misc : op74333,ef5726 Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\MSDCHEM\1\METHODS\DFTPPF.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um



AutoFind: Scans 198, 199, 200; Background Corrected with Scan 193

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	34.5	31882	PASS
68	69	0.00	2	1.6	657	PASS
69	198	0.00	100	43.6	40339	PASS
70	69	0.00	2	0.3	117	PASS
127	198	40	60	53.4	49365	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	92514	PASS
199	198	5	9	6.7	6224	PASS
275	198	10	30	22.3	20600	PASS
365	198	1	100	2.7	2509	PASS
441	443	0.10	100	81.9	11831	PASS
442	198	40	100	81.0	74954	PASS
443	442	17	23	19.3	14441	PASS

Average of 2.487 to 2.498 min.: F36783.D

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.10	197	52.90	51	66.10	54	78.10	2946
37.00	101	53.10	54	67.05	37	79.10	2215
38.15	422	56.05	856	68.10	657	80.05	1823
39.10	2207	57.10	2349	69.00	40339	81.00	2830
43.95	180	58.10	102	70.05	117	82.05	885
45.05	225	60.00	168	71.90	56	83.10	808
47.00	34	61.05	484	73.00	139	84.00	427
48.05	81	62.00	472	74.10	3452	85.05	397
50.05	8113	63.10	1204	75.05	5195	86.00	677
51.05	31882	64.00	75	76.10	1849	87.05	136
52.10	1786	65.10	696	77.10	40762	88.00	1

Average of 2.487 to 2.498 min.: F36783.D

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
89.00	53	102.05	110	112.05	469	125.05	636
91.05	727	103.00	549	113.00	190	127.05	49365
92.00	657	104.05	988	116.00	692	128.10	3481
93.00	4753	105.00	1012	117.00	8677	129.00	19139
94.10	84	106.00	145	118.05	764	130.00	1706
95.00	164	106.20	146	118.95	123	131.00	352
96.05	325	107.05	12968	120.10	203	132.10	219
98.05	3137	108.10	1990	121.00	52	133.05	125
99.00	2869	109.00	55	122.00	792	134.05	526
100.00	221	110.00	25593	123.00	1216	135.05	1294
101.00	1652	111.05	3466	124.05	433	136.10	545

Average of 2.487 to 2.498 min.: F36783.D

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
137.10	724	144.90	61	154.05	364	166.00	455
137.70	67	146.05	438	155.10	1215	167.00	3473
138.05	142	147.00	855	156.05	1758	168.00	1919
138.90	109	148.00	2190	157.10	568	169.05	435
139.90	126	149.00	613	157.95	301	170.00	62
140.10	106	149.95	173	159.05	362	170.30	59
141.00	2160	151.05	372	160.00	623	170.60	55
142.05	621	151.60	64	161.00	950	170.90	54
142.90	168	151.90	73	162.10	279	171.10	92
143.05	344	153.00	631	164.05	238	172.00	357
144.05	147	153.80	82	165.00	676	173.05	613

Average of 2.487 to 2.498 min.: F36783.D

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
174.05	867	185.05	1482	196.10	3526	207.10	3407
175.10	1614	186.05	12531	198.00	92514	208.05	735
176.00	579	187.00	3555	199.00	6224	209.05	174
177.00	700	188.05	422	200.00	530	210.15	299
177.90	246	189.00	560	200.90	119	210.40	97
179.00	3239	190.00	159	201.55	657	211.05	998
180.05	2529	191.00	383	202.10	64	214.95	190
181.00	1063	192.00	1111	203.00	574	216.05	505
182.00	96	193.05	1084	204.05	2856	217.00	5501
183.90	123	194.05	254	205.05	5095	218.00	787
184.10	54	195.15	153	206.10	22781	219.10	54

Average of 2.487 to 2.498 min.: F36783.D

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
221.10	5148	231.10	295	244.05	9536	259.05	281
222.05	542	233.95	408	245.10	1287	261.00	57
223.00	1499	235.05	435	246.00	1787	264.00	127
224.10	12324	235.80	55	246.95	505	265.00	1036

225.05	2828	236.05	318	248.95	254	265.90	354
226.00	67	236.95	456	253.10	85	267.90	67
226.20	53	238.95	145	254.00	136	269.90	62
227.00	4549	240.00	64	255.00	48680	272.10	176
228.00	665	241.15	329	256.00	7435	273.00	1462
229.00	1309	241.95	676	257.05	511	274.05	3649
230.90	81	243.05	599	258.00	3111	275.00	20600

Average of 2.487 to 2.498 min.: F36783.D

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
276.00	2538	294.05	150	321.10	201	346.00	463
277.00	1943	296.00	6080	323.10	2248	351.95	556
277.95	347	296.95	957	324.05	392	352.90	127
282.10	57	297.80	57	326.95	236	353.10	242
283.00	202	302.00	118	327.20	99	353.90	148
283.80	68	303.00	751	328.10	195	354.10	413
284.00	71	304.00	61	333.05	127	355.00	66
285.00	422	309.00	50	334.05	1333	365.05	2509
289.10	60	314.00	231	335.05	342	366.00	391
292.10	66	315.00	698	341.05	204	371.00	135
293.00	406	316.05	483	342.10	55	372.05	1099

Average of 2.487 to 2.498 min.: F36783.D

dftpp

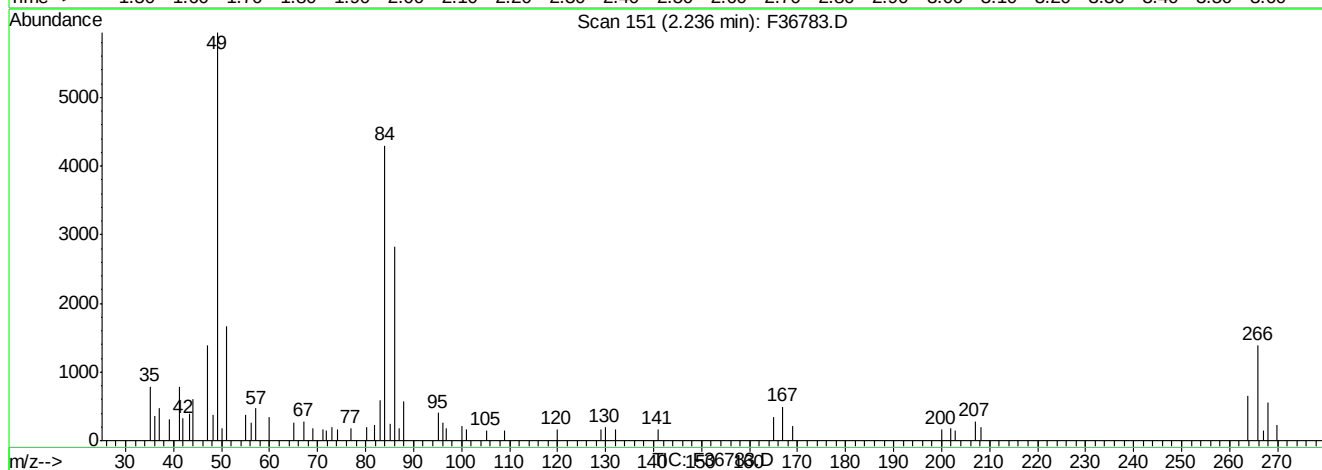
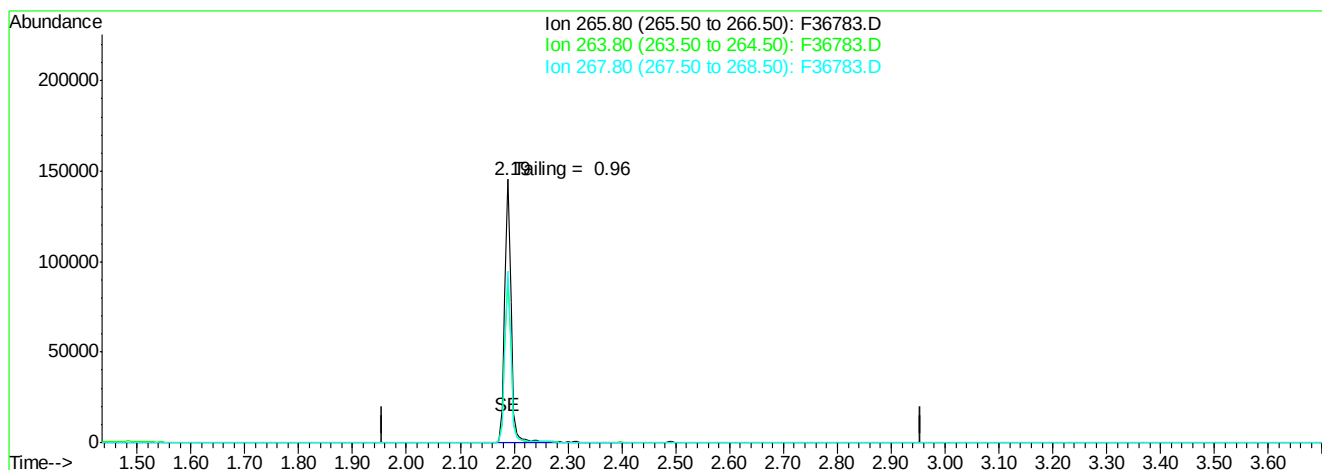
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
372.90	52	424.10	715				
373.05	191	439.20	50				
383.00	305	441.10	11831				
390.00	69	442.05	74954				
391.10	51	443.05	14441				
402.00	426	444.00	1224				
403.00	637	445.20	71				
403.95	236						
421.05	517						
422.10	389						
423.05	3134						

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF5726\F36783.D Vial: 1
Acq On : 6 Jul 2014 1:28 pm Operator: ashleyd
Sample : dftpp Inst : MSF
Misc : op74333,ef5726 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 6 13:33 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPPF.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
Last Update : Mon Apr 14 11:03:43 2014
Response via : Multiple Level Calibration



(1) Pentachlorophenol (t)

2.24min 0.78ppb

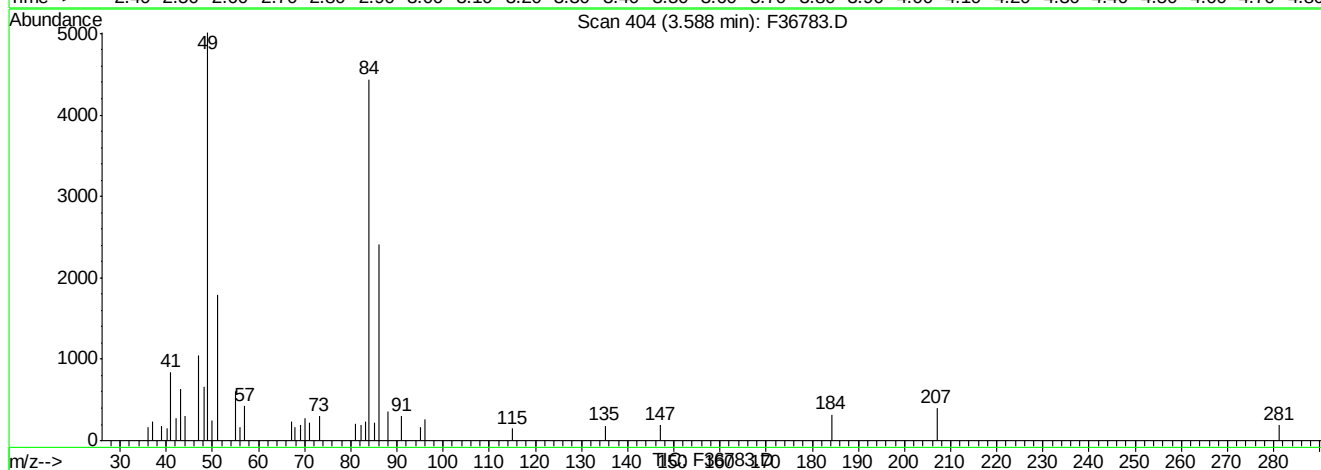
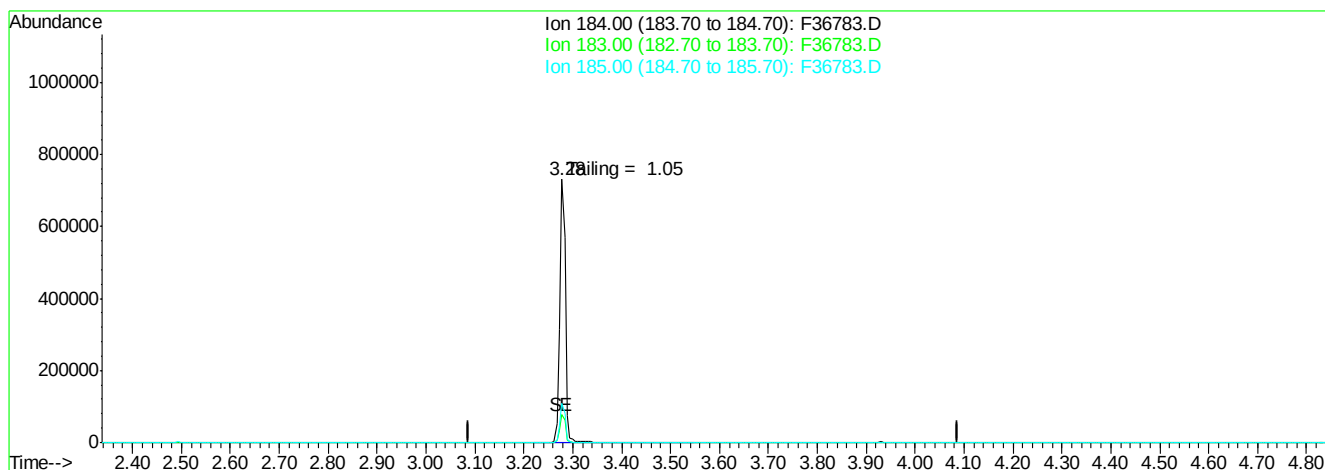
response 1443

Ion	Exp%	Act%
265.80	100	100
263.80	63.00	35.83
267.80	64.80	3.20#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF5726\F36783.D Vial: 1
Acq On : 6 Jul 2014 1:28 pm Operator: ashleyd
Sample : dftpp Inst : MSF
Misc : op74333,ef5726 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 6 13:33 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPPF.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
Last Update : Mon Apr 14 11:03:43 2014
Response via : Multiple Level Calibration



(2) Benzidine (t)

3.59min 0.00ppb

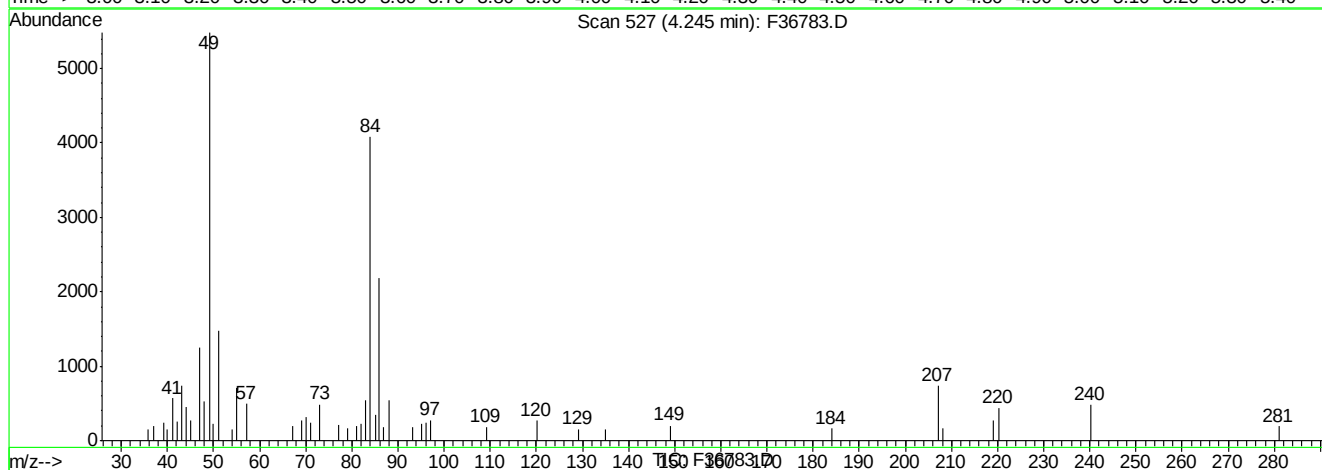
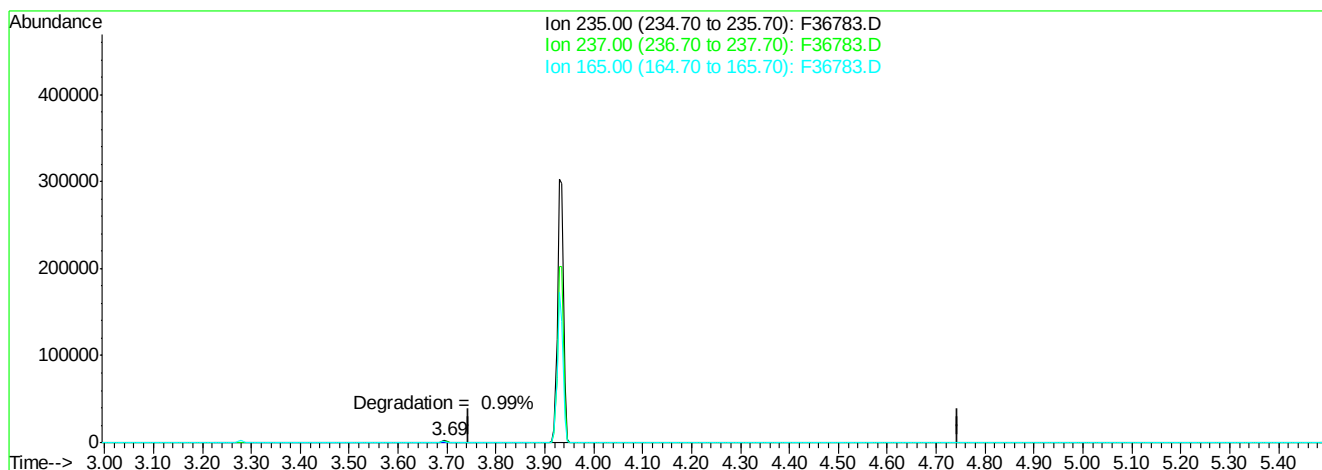
response 0

Ion	Exp%	Act%
184.00	100	0.00
183.00	12.60	0.00
185.00	16.20	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF5726\F36783.D Vial: 1
Acq On : 6 Jul 2014 1:28 pm Operator: ashleyd
Sample : dftpp Inst : MSF
Misc : op74333,ef5726 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 6 13:33 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPPF.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
Last Update : Mon Apr 14 11:03:43 2014
Response via : Single Level Calibration



(3) ddt (t)

4.25min 0.00ppb

response 0

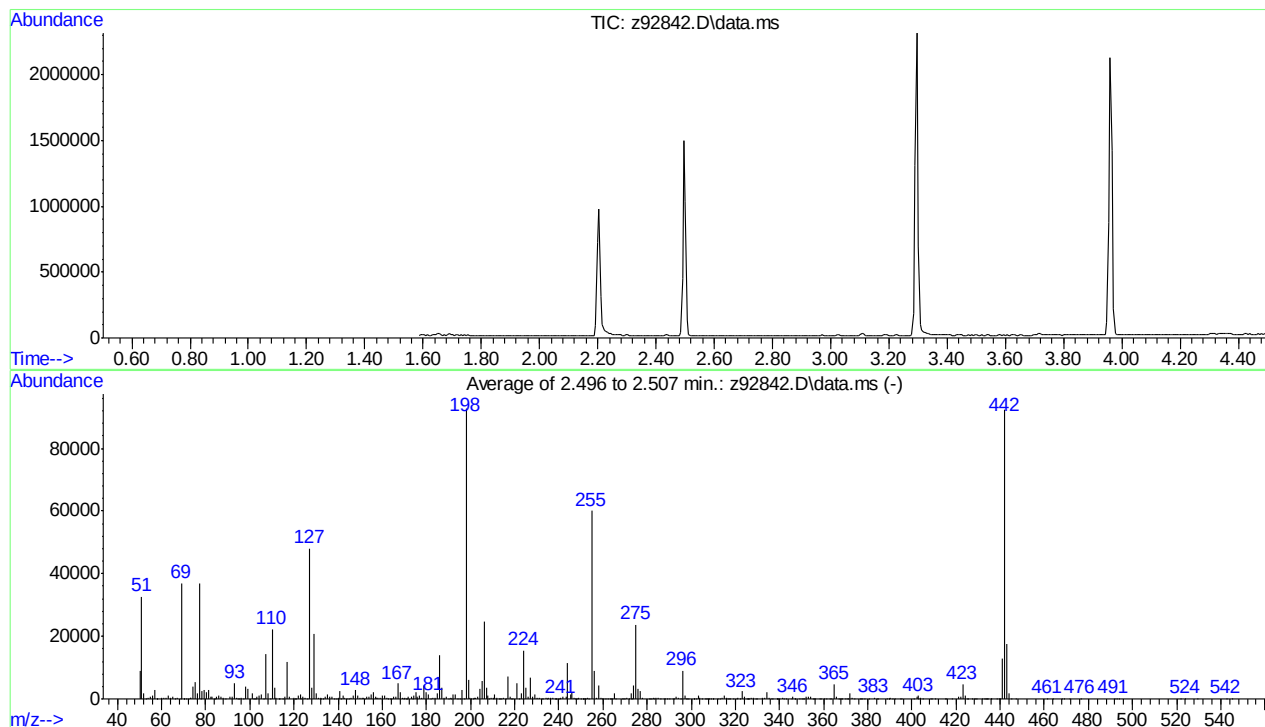
Ion	Exp%	Act%
235.00	100	0.00
237.00	66.70	0.00#
165.00	59.50	0.00#
0.00	0.00	0.00

DFTPP

Data Path : C:\msdchem\1\DATA\ez4614\
 Data File : z92842.D
 Acq On : 23 Jun 2014 2:00 pm
 Operator : ashleyv
 Sample : dftpp
 Misc : op75490,ez4614
 ALS Vial : 1 Sample Multiplier: 1

Integration File: events.e

Method : C:\msdchem\1\METHODS\dftppz.m
 Title : column rtx-5msi 30mx0.25mmx0.25um
 Last Update : Sun Feb 23 14:24:12 2014



AutoFind: Scans 160, 161, 162; Background Corrected with Scan 155

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	35.2	32604	PASS
68	69	0.00	2	0.2	72	PASS
69	198	0.00	100	39.8	36887	PASS
70	69	0.00	2	0.4	132	PASS
127	198	40	60	51.9	48108	PASS
197	198	0.00	1	0.1	47	PASS
198	198	100	100	100.0	92726	PASS
199	198	5	9	6.5	6037	PASS
275	198	10	30	25.5	23643	PASS
365	198	1	100	5.2	4829	PASS
441	443	0.01	100	73.3	12728	PASS
442	198	40	100	99.8	92528	PASS
443	442	17	23	18.8	17376	PASS

Average of 2.496 to 2.507 min.: z92842.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
50.10	8880	61.10	475	71.15	92	80.10	1990
51.10	32604	62.15	468	72.15	51	81.10	3020
52.10	1718	63.20	1253	73.00	297	82.10	613
53.10	33	64.05	204	73.10	224	83.10	665
54.10	198	65.05	788	74.10	3852	84.00	50
55.10	684	66.15	54	75.10	5430	84.30	69
56.10	913	67.20	290	76.10	1864	85.10	691
57.05	2848	68.40	72	77.05	36881	86.05	919
58.00	120	69.10	36887	77.80	84	87.00	633
58.15	97	70.00	89	78.05	2365	88.00	200
60.10	459	70.20	132	79.10	2698	88.95	101

Average of 2.496 to 2.507 min.: z92842.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
91.00	906	101.85	17	111.05	3431	122.05	966
92.10	595	102.10	88	112.05	450	123.00	1315
93.10	5054	102.80	64	113.10	168	123.20	128
94.05	246	103.05	644	113.30	43	124.00	609
94.30	130	104.05	1189	115.05	44	125.10	531
95.10	50	105.00	1500	116.05	760	125.80	50
96.00	341	106.10	114	117.10	11913	127.10	48108
97.15	157	107.10	14177	118.05	801	128.10	3642
98.00	3954	108.05	1977	120.00	221	129.05	20804
99.05	3215	109.05	58	120.30	43	130.05	1835
100.95	1805	110.10	22346	121.20	191	131.00	349

Average of 2.496 to 2.507 min.: z92842.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
131.90	253	141.20	123	151.40	207	161.10	1231
132.20	112	142.05	999	151.80	94	162.00	310
133.00	57	143.00	507	153.00	737	162.80	54
134.00	633	143.95	148	154.05	633	163.80	59
135.00	1391	145.00	95	155.10	1310	164.20	19
136.10	662	145.95	418	156.05	2174	165.00	715
137.05	869	147.05	1034	157.05	706	166.05	865
138.05	31	148.00	2785	157.60	192	167.05	4898
139.05	88	149.05	1165	158.05	523	168.00	2184
140.05	248	150.10	239	159.05	467	169.05	378
141.00	2471	151.10	437	160.10	926	169.70	78

Average of 2.496 to 2.507 min.: z92842.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
170.10	206	178.05	215	189.10	844	199.00	6037
170.90	185	179.05	4179	190.05	61	199.90	301
171.20	92	180.05	2313	191.00	199	200.10	133
171.95	571	181.05	1328	191.15	99	201.10	184
173.10	667	182.00	167	192.00	1299	201.50	279
173.80	41	182.95	196	193.10	1311	202.05	227
174.10	1125	184.00	350	194.00	190	203.00	706
175.10	2092	185.05	1884	195.00	17	204.00	3360
175.60	29	186.10	13919	196.00	2902	205.10	5833
176.05	660	187.10	3731	196.90	47	206.10	24793
177.05	910	188.00	396	198.00	92726	207.10	3441

Average of 2.496 to 2.507 min.: z92842.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
208.05	1010	216.10	103	227.00	6972	237.05	538
208.30	103	217.00	7004	228.10	788	238.40	89
209.10	370	218.00	744	229.05	1347	238.60	16
210.10	206	218.40	22	230.05	192	239.00	123

210.40	51	218.90	190	231.00	511	239.80	168
210.95	1424	221.05	5085	232.05	162	240.10	135
211.85	292	222.10	23	232.90	71	240.95	350
212.80	22	223.05	1676	234.00	482	242.05	800
213.15	36	224.10	15419	234.80	30	243.15	774
213.90	18	225.10	3723	235.05	541	244.10	11303
215.05	347	226.10	602	236.00	297	245.15	1503

Average of 2.496 to 2.507 min.: z92842.D\data.ms
dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
246.05	2281	252.15	141	262.00	63	272.60	38
247.05	540	253.05	397	263.05	54	273.00	1669
247.30	52	253.70	24	263.70	99	273.20	140
248.00	47	255.00	60001	264.00	2	274.00	4453
248.20	56	256.00	8923	265.00	1804	275.00	23643
249.00	432	257.00	418	265.85	91	276.05	3298
249.90	103	258.05	4155	268.80	68	277.05	2382
250.80	38	258.95	499	269.10	37	278.05	511
251.10	61	259.80	57	269.90	71	281.10	95
251.30	27	260.10	45	271.00	241	281.70	60
251.90	65	261.00	33	272.00	109	282.10	21

Average of 2.496 to 2.507 min.: z92842.D\data.ms
dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
282.95	260	292.90	565	303.05	1089	312.10	35
283.20	25	294.05	327	304.00	301	313.20	74
284.00	263	294.95	126	305.00	38	314.05	539
285.00	379	296.00	9016	306.10	37	314.95	1041
285.95	115	297.05	1143	306.80	20	316.05	416
287.40	24	297.90	68	307.20	20	316.70	54
287.90	82	298.20	69	307.70	30	316.90	46
289.00	57	298.70	30	308.00	66	317.50	23
290.05	92	301.05	78	309.05	120	318.80	24
291.80	35	301.30	22	309.90	82	320.70	37
292.00	39	302.05	143	310.10	168	321.00	339

Average of 2.496 to 2.507 min.: z92842.D\data.ms
dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
322.05	77	332.05	268	342.15	120	353.05	724
323.10	2422	333.05	293	342.95	70	354.10	900
324.05	570	334.10	2025	345.60	39	355.00	102
325.05	64	335.05	373	346.05	560	355.80	51
325.50	18	336.30	30	346.90	26	356.00	24
325.90	56	336.90	19	347.20	24	358.40	35
326.40	18	338.90	31	349.20	21	358.90	110
326.95	441	339.10	44	350.00	75	360.30	46
327.95	413	339.60	24	350.60	23	361.00	16
329.00	106	340.00	38	351.00	115	362.60	22
329.70	22	341.15	461	352.05	822	363.30	29

Average of 2.496 to 2.507 min.: z92842.D\data.ms
dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
365.00	4829	374.00	17	389.90	38	405.00	87
366.00	660	376.40	35	390.05	299	408.20	36
366.80	19	376.70	108	391.10	115	408.80	20
367.20	21	377.70	18	392.00	90	410.30	45
367.60	20	378.30	42	394.80	19	414.95	94
368.30	45	380.70	23	395.40	23	415.60	21
370.05	118	382.95	364	401.00	59	418.20	23
370.90	161	383.85	91	402.10	581	421.00	640
371.10	25	384.70	38	402.70	87	422.00	637
372.10	1624	388.70	26	402.95	911	423.00	4833
373.10	496	389.80	101	404.00	422	424.00	1072

Average of 2.496 to 2.507 min.: z92842.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
425.00	107	434.30	22	446.95	47	523.80	22
425.30	24	435.70	36	461.30	32	529.20	19
427.40	65	436.10	18	463.90	20	542.50	23
428.30	22	438.45	59	467.90	16	544.90	16
428.60	18	439.30	95	468.70	24		
429.30	17	439.90	23	471.60	26		
431.60	22	441.00	12728	476.30	17		
432.60	42	442.00	92528	491.60	29		
433.10	16	443.00	17376	492.90	25		
433.60	23	444.00	1758	493.70	16		
433.80	17	445.00	104	521.50	21		

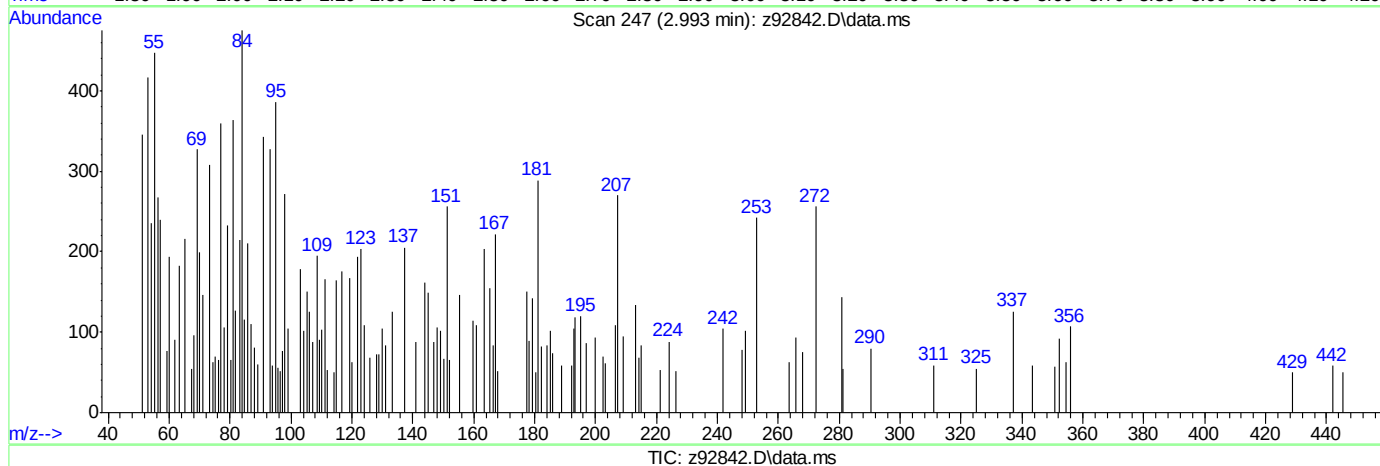
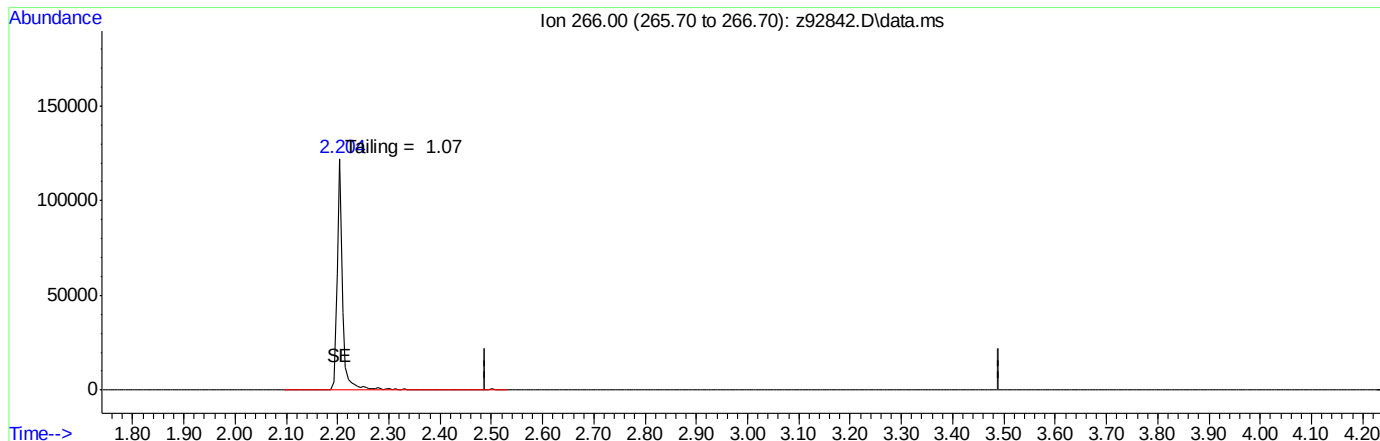
9.5.14

9

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez4614\
Data File : z92842.D
Acq On : 23 Jun 2014 2:00 pm
Operator : ashleyv
Sample : dftpp
Misc : op75490,ez4614
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 25 16:02:05 2014
Quant Method : C:\msdchem\1\METHODS\dftppz.m
Quant Title : column rtx-5msi 30mx0.25mmx0.25um
QLast Update : Sun Feb 23 14:24:12 2014
Response via : Initial Calibration



(1) Pentachlorophenol

2.990min (-2.990) 0.00

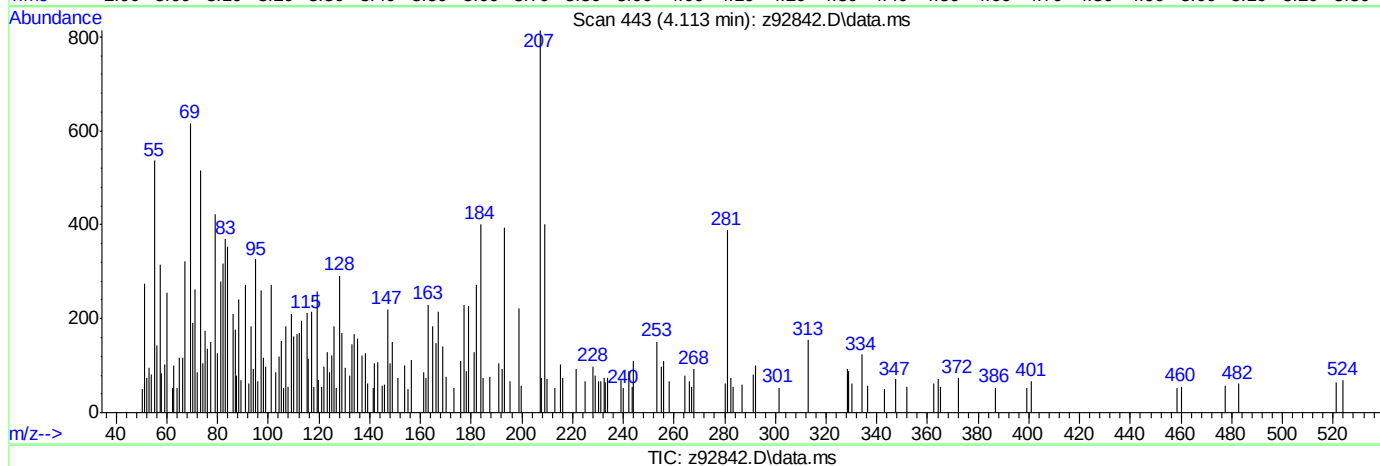
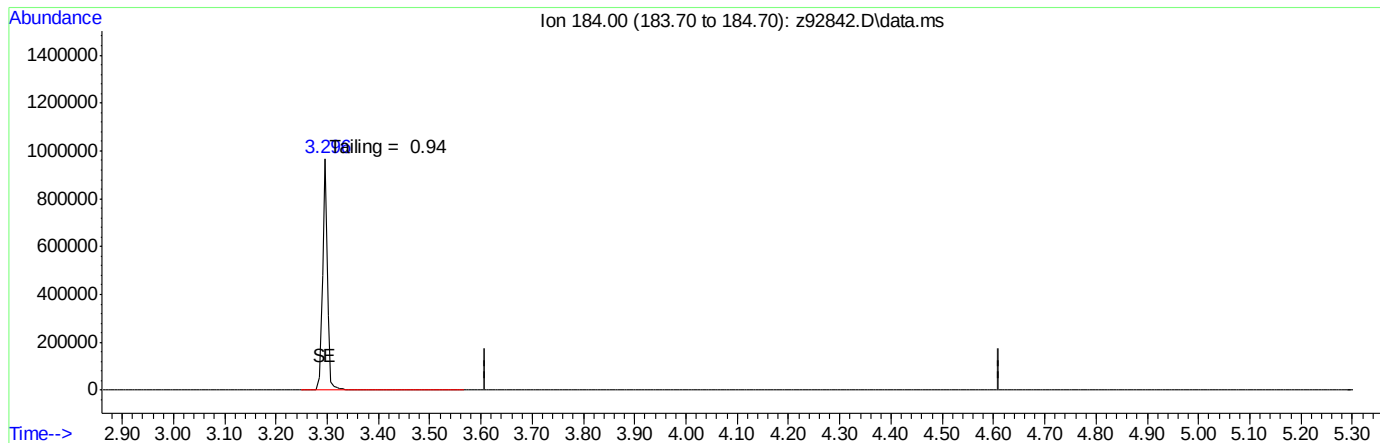
response 0

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\ez4614\
Data File : z92842.D
Acq On : 23 Jun 2014 2:00 pm
Operator : ashleyv
Sample : dftpp
Misc : op75490,ez4614
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 25 16:02:05 2014
Quant Method : C:\msdchem\1\METHODS\dftppz.m
Quant Title : column rtx-5msi 30mx0.25mmx0.25um
QLast Update : Sun Feb 23 14:24:12 2014
Response via : Initial Calibration



(2) Benzidine

4.110min (-4.110) 0.00

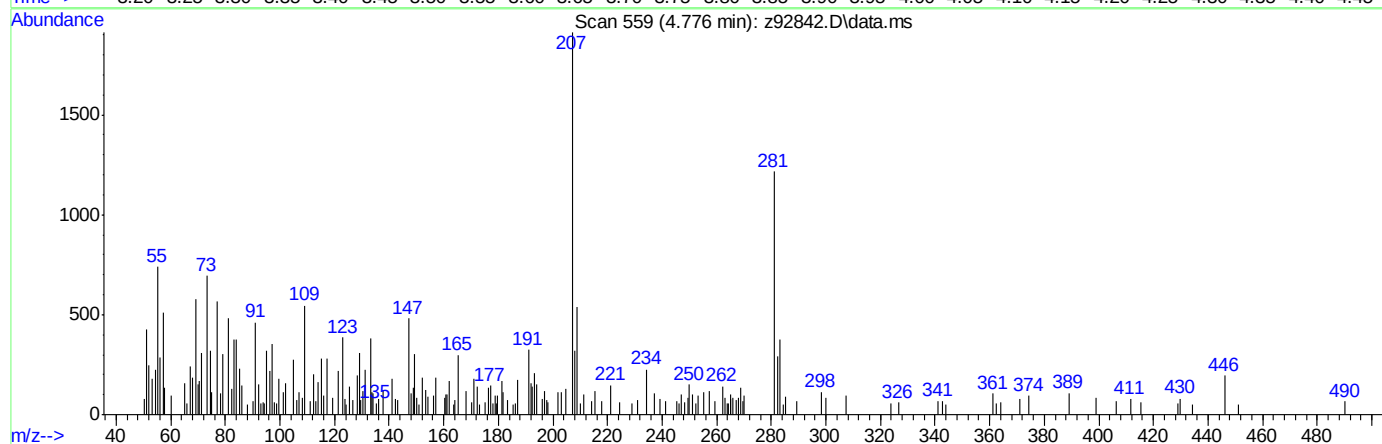
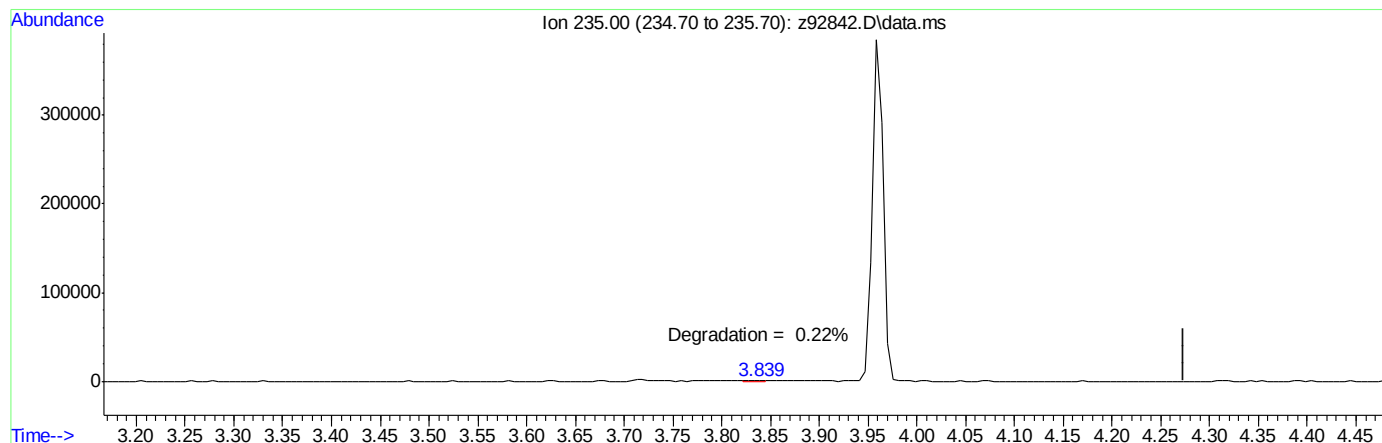
response 0

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\ez4614\
Data File : z92842.D
Acq On : 23 Jun 2014 2:00 pm
Operator : ashleyv
Sample : dftpp
Misc : op75490,ez4614
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 25 16:02:05 2014
Quant Method : C:\msdchem\1\METHODS\dftppz.m
Quant Title : column rtx-5msi 30mx0.25mmx0.25um
QLast Update : Sun Feb 23 14:24:12 2014
Response via : Initial Calibration



TIC: z92842.D\data.ms

(3) PP-DDT

4.773min (-4.773) 0.00

response 0

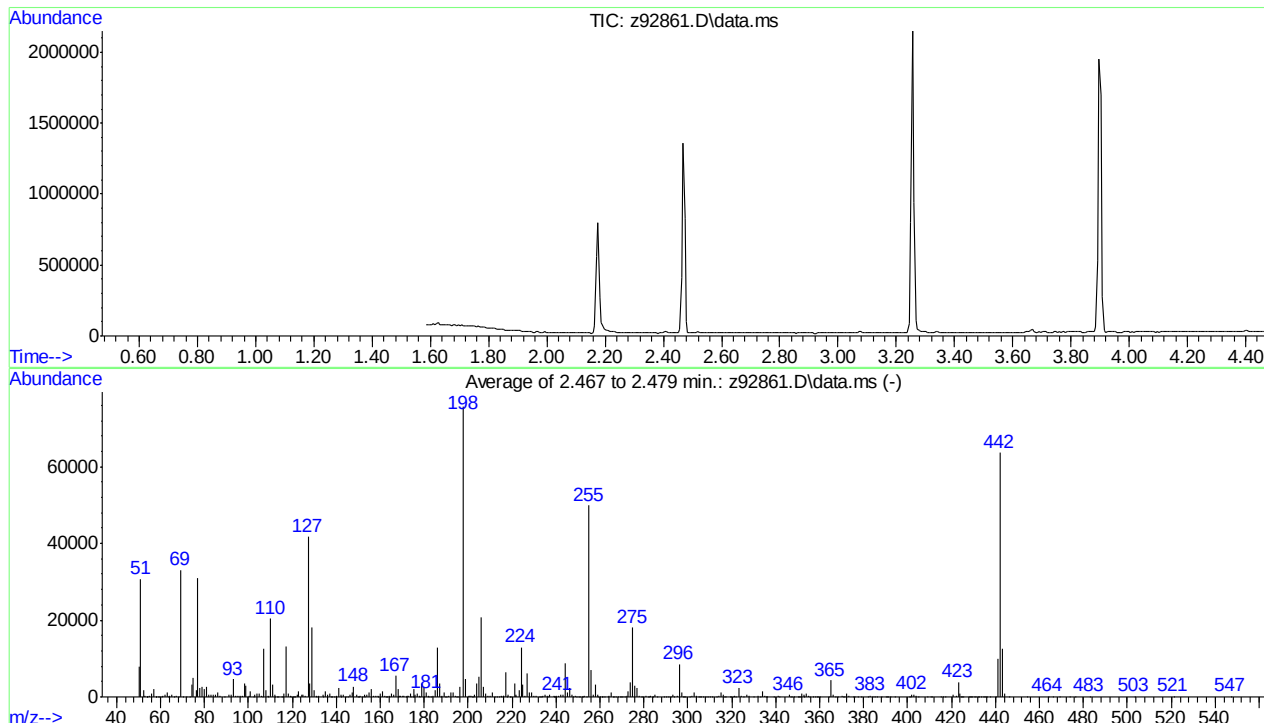
Ion	Exp%	Act%
235.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

DFTPP

Data Path : C:\msdchem\1\DATA\ez4615\
Data File : z92861.D
Acq On : 24 Jun 2014 11:23 am
Operator : ashleyv
Sample : dftpp
Misc : op75490,ez4615
ALS Vial : 1 Sample Multiplier: 1

Integration File: events.e

Method : C:\msdchem\1\METHODS\dftppz.m
Title : column rtx-5msi 30mx0.25mmx0.25um
Last Update : Sun Feb 23 14:24:12 2014



AutoFind: Scans 155, 156, 157; Background Corrected with Scan 150

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	40.6	30743	PASS
68	69	0.00	2	0.4	129	PASS
69	198	0.00	100	43.7	33090	PASS
70	69	0.00	2	0.2	73	PASS
127	198	40	60	55.1	41680	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	75682	PASS
199	198	5	9	6.2	4679	PASS
275	198	10	30	23.8	18031	PASS
365	198	1	100	5.8	4376	PASS
441	443	0.01	100	79.3	10077	PASS
442	198	40	100	84.1	63669	PASS
443	442	17	23	20.0	12704	PASS

Average of 2.467 to 2.479 min.: z92861.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
50.10	7802	59.20	20	68.05	129	80.05	1939
51.05	30743	59.70	50	69.10	33090	81.10	2637
52.20	1703	60.30	38	70.05	73	82.00	669
53.10	205	61.05	425	72.00	76	83.05	529
54.00	61	62.10	519	73.05	129	84.00	578
54.10	9	63.10	1313	74.10	3317	85.10	641
55.10	294	63.80	54	75.00	5017	86.00	1147
56.10	923	64.10	200	76.10	1769	86.95	273
57.05	2038	65.05	461	77.10	31072	88.90	72
58.00	37	66.00	107	78.10	2251	91.05	495
58.20	38	67.05	195	79.10	2683	92.10	725

Average of 2.467 to 2.479 min.: z92861.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
93.10	4573	104.00	963	112.15	479	120.50	57
94.05	377	105.10	978	113.10	48	121.10	29
95.10	272	106.00	169	113.75	60	122.05	681
96.15	157	106.20	70	115.10	139	123.00	1534
97.10	287	107.05	12674	115.40	94	124.05	680
98.10	3579	108.05	1706	116.10	1003	125.05	554
99.00	2800	108.90	36	117.10	13119	125.95	311
100.10	344	109.15	302	118.05	809	127.10	41680
101.05	1442	110.05	20322	119.10	180	128.00	3460
102.20	27	111.00	3102	119.40	62	129.00	18020
102.95	461	111.90	46	120.00	134	130.00	1753

Average of 2.467 to 2.479 min.: z92861.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
130.80	42	139.95	287	150.00	128	159.00	292
131.05	309	141.05	2223	150.20	145	159.20	86
132.05	213	142.10	718	151.05	302	160.05	910
134.00	504	142.40	34	151.85	94	161.10	1360
134.20	54	143.05	638	152.70	18	162.05	229
135.00	1540	144.15	122	153.05	693	162.35	58
136.10	520	145.05	115	153.95	450	163.10	79
137.05	874	146.05	571	155.00	1120	164.00	180
137.80	97	147.00	1183	156.05	1961	164.15	69
138.10	33	148.00	2726	157.05	438	165.00	773
139.00	95	149.05	481	157.95	344	166.05	704

Average of 2.467 to 2.479 min.: z92861.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
167.00	5423	174.00	963	181.05	1039	189.80	137
168.00	2133	174.80	31	181.90	148	190.15	75
168.20	49	175.10	2089	182.10	212	191.05	328
168.90	320	175.30	48	183.10	110	192.00	1038
169.10	178	176.05	575	184.05	340	193.10	1034
170.15	224	177.00	825	185.05	1797	194.15	213
170.90	170	177.80	23	186.10	12862	194.90	107
171.50	19	178.05	366	187.05	3433	195.15	94
172.00	447	178.95	3426	187.80	21	196.00	2598
172.95	387	179.80	70	188.15	373	198.00	75682
173.70	18	180.05	2753	189.00	1160	199.00	4679

Average of 2.467 to 2.479 min.: z92861.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
200.05	397	208.95	235	217.80	59	227.00	6063
200.85	203	210.00	173	218.05	658	228.00	1161
201.50	371	211.00	1151	219.00	59	229.00	1130
201.70	53	212.00	103	219.40	38	229.95	236

202.30	58	213.10	28	221.05	3555	231.10	447
203.05	579	214.30	35	221.70	456	232.40	65
204.10	3641	215.10	240	221.90	415	233.00	42
205.00	5305	215.30	28	223.05	1660	233.40	25
206.05	20776	215.90	304	224.10	12883	234.05	347
207.05	2736	216.05	289	225.00	3266	234.95	501
208.05	892	217.00	6329	225.90	221	236.05	328

Average of 2.467 to 2.479 min.: z92861.D\data.ms
dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
236.70	22	246.00	2294	255.00	49942	263.95	235
237.10	560	247.00	465	256.00	6937	265.00	1252
238.95	301	247.90	45	257.05	648	265.95	76
239.20	24	248.90	301	258.00	3323	266.20	149
239.70	24	249.30	29	258.80	26	267.20	72
239.95	191	250.10	19	259.05	629	268.10	32
241.10	370	250.90	9	259.95	143	269.00	74
242.05	649	251.90	9	260.80	41	269.70	90
243.00	512	252.30	45	261.20	38	270.05	96
244.05	8830	253.05	304	262.10	17	271.00	133
245.10	1176	253.70	83	263.70	25	272.00	226

Average of 2.467 to 2.479 min.: z92861.D\data.ms
dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
272.95	1462	283.00	220	295.05	187	305.20	31
274.00	3942	283.80	39	296.00	8579	305.80	29
275.00	18031	284.05	115	297.00	1234	307.10	31
276.00	2987	285.10	462	297.90	22	307.95	102
277.00	2325	286.05	101	298.10	21	308.85	111
278.00	296	289.05	141	298.95	46	310.05	104
279.00	137	290.00	61	301.00	85	311.00	19
279.30	51	291.00	82	301.95	188	313.00	136
281.05	206	292.10	100	303.00	1161	314.00	300
282.00	22	293.00	500	304.05	268	315.00	1173
282.40	33	293.90	133	304.90	25	316.05	507

Average of 2.467 to 2.479 min.: z92861.D\data.ms
dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
316.80	57	327.95	231	346.00	550	354.00	856
317.10	46	329.90	34	346.70	59	355.10	202
319.10	31	332.05	229	347.10	55	355.30	18
319.90	24	332.90	141	348.20	19	357.00	84
320.60	53	334.00	1402	350.10	22	358.05	48
321.15	185	335.00	325	350.40	20	358.85	112
321.85	99	335.60	19	350.90	37	359.10	29
323.00	2245	336.20	32	351.10	56	359.90	67
324.10	368	338.85	64	352.05	873	363.90	23
325.05	21	340.95	362	352.60	33	365.00	4376
327.00	630	341.80	26	353.05	613	366.05	666

Average of 2.467 to 2.479 min.: z92861.D\data.ms
dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
367.10	46	381.90	17	401.00	27	417.10	22
368.15	70	383.10	384	401.20	70	420.90	561
370.05	168	384.15	100	401.95	617	422.05	342
370.95	146	385.00	41	403.05	614	423.00	3823
371.25	78	385.90	36	403.95	270	424.00	752
372.05	982	388.10	21	404.85	71	424.20	43
373.00	317	389.95	93	409.10	23	424.85	74
375.30	20	390.40	36	410.40	18	425.40	23
375.90	24	390.95	86	410.80	55	428.00	72
377.10	45	392.05	95	415.30	25	428.30	30
378.70	20	394.10	27	416.10	25	428.80	42

Average of 2.467 to 2.479 min.: z92861.D\data.ms

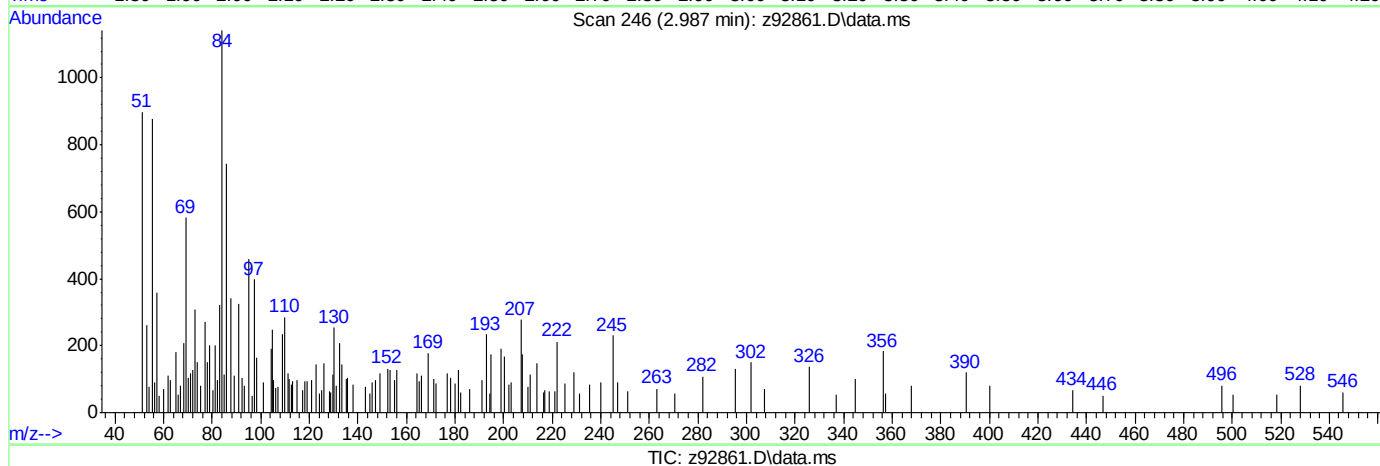
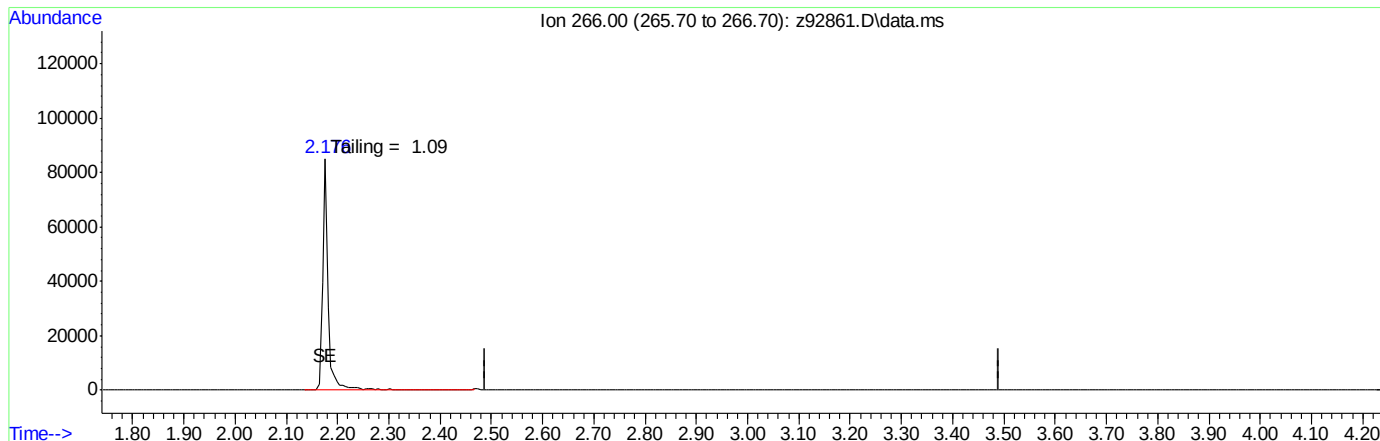
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
429.20	62	439.90	44	476.10	17		
430.60	46	441.00	10077	482.90	18		
431.10	17	442.00	63669	503.20	36		
432.00	47	443.00	12704	521.20	29		
432.55	57	444.05	985	547.00	18		
433.40	27	446.20	25				
434.50	25	454.40	20				
435.00	21	463.90	30				
435.30	17	466.10	18				
435.90	82	469.10	25				
437.30	44	473.80	25				

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez4615\
Data File : z92861.D
Acq On : 24 Jun 2014 11:23 am
Operator : ashleyv
Sample : dftpp
Misc : op75490,ez4615
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 24 11:32:26 2014
Quant Method : C:\msdchem\1\METHODS\dftppz.m
Quant Title : column rtx-5msi 30mx0.25mmx0.25um
QLast Update : Sun Feb 23 14:24:12 2014
Response via : Initial Calibration



(1) Pentachlorophenol

2.990min (-2.990) 0.00

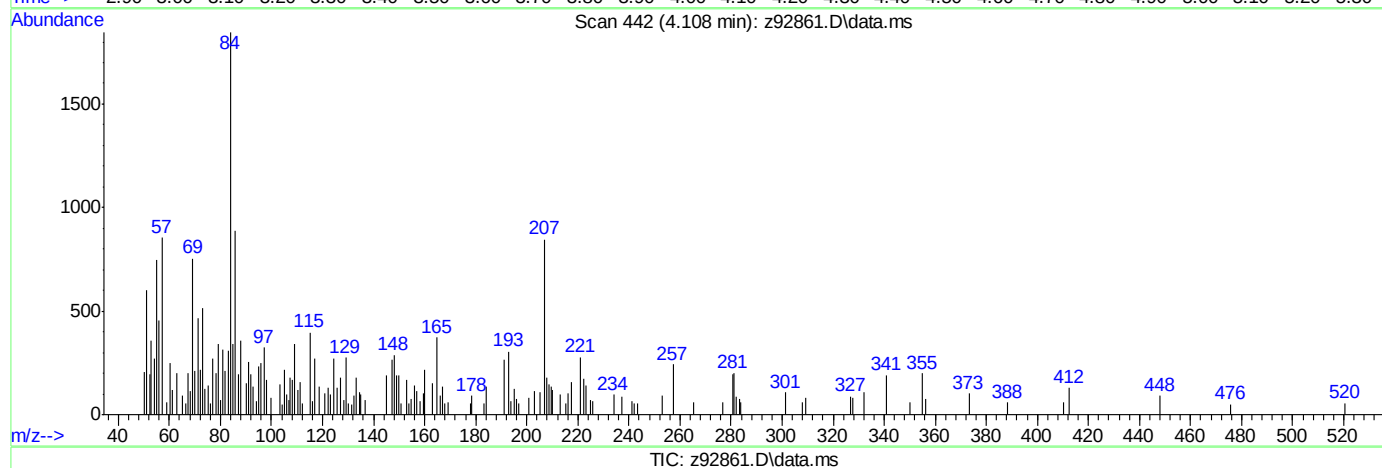
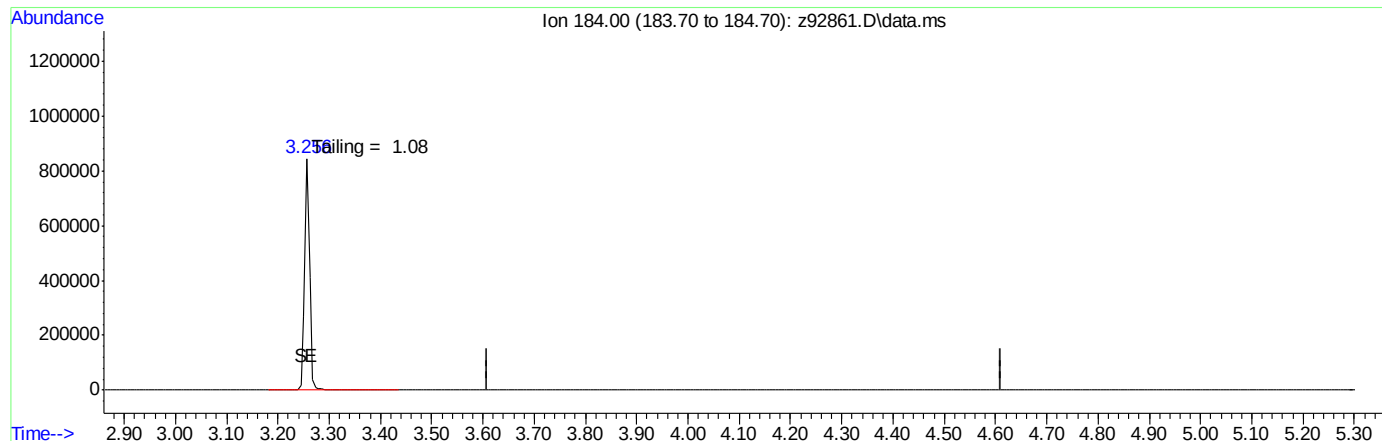
response 0

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\ez4615\
Data File : z92861.D
Acq On : 24 Jun 2014 11:23 am
Operator : ashleyv
Sample : dftpp
Misc : op75490,ez4615
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 24 11:32:26 2014
Quant Method : C:\msdchem\1\METHODS\dftppz.m
Quant Title : column rtx-5msi 30mx0.25mmx0.25um
QLast Update : Sun Feb 23 14:24:12 2014
Response via : Initial Calibration



(2) Benzidine

4.110min (-4.110) 0.00

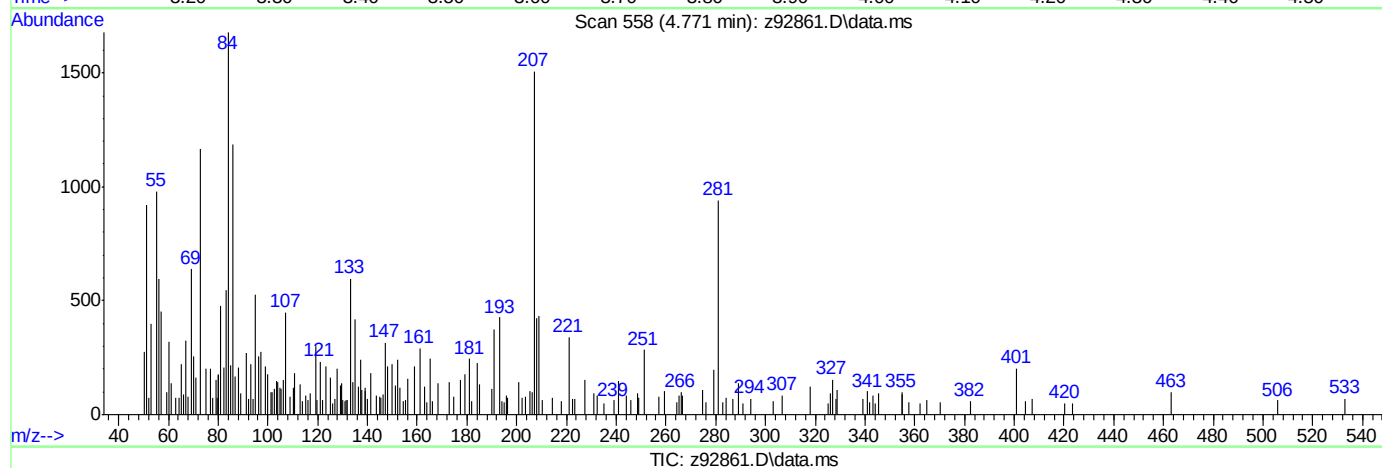
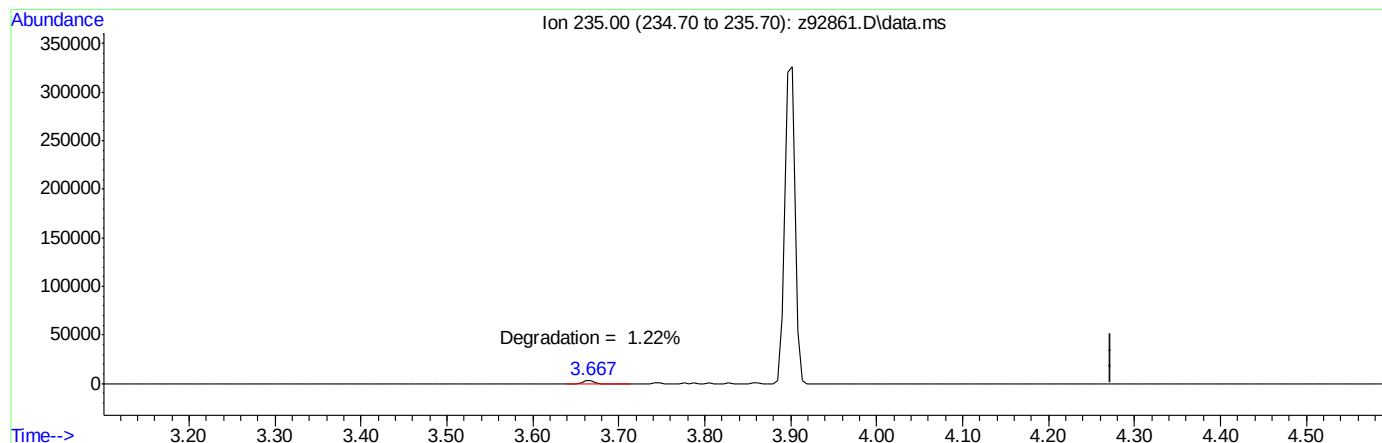
response 0

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\ez4615\
Data File : z92861.D
Acq On : 24 Jun 2014 11:23 am
Operator : ashleyv
Sample : dftpp
Misc : op75490,ez4615
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 24 11:32:26 2014
Quant Method : C:\msdchem\1\METHODS\dftppz.m
Quant Title : column rtx-5msi 30mx0.25mmx0.25um
QLast Update : Sun Feb 23 14:24:12 2014
Response via : Initial Calibration



(3) PP-DDT

4.773min (-4.773) 0.00

response 0

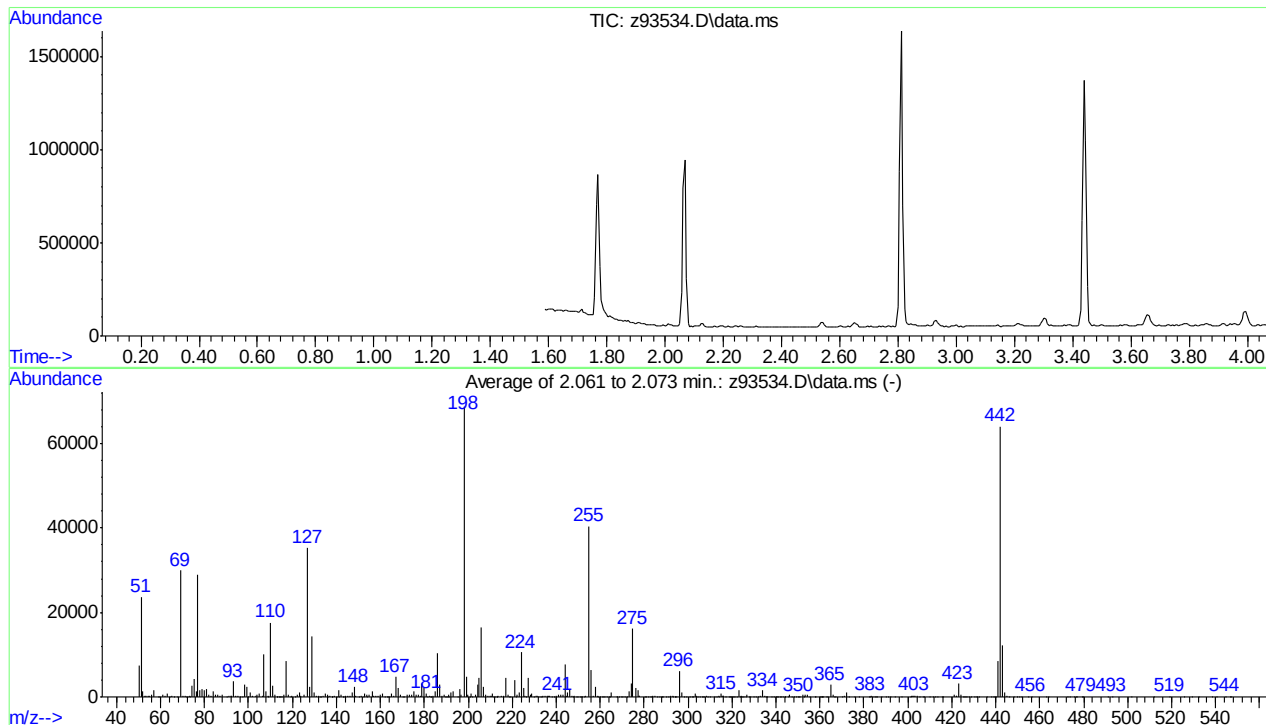
Ion	Exp%	Act%
235.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

DFTPP

Data Path : C:\msdchem\1\DATA\ez4640\
 Data File : z93534.D
 Acq On : 11 Jul 2014 10:25 pm
 Operator : andrews1
 Sample : dftpp
 Misc : op76211,ez4640
 ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\MZ4615.M
 Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 Last Update : Sat Jul 12 14:13:23 2014



AutoFind: Scans 84, 85, 86; Background Corrected with Scan 80

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	34.4	23669	PASS
68	69	0.00	2	0.5	139	PASS
69	198	0.00	100	43.5	29924	PASS
70	69	0.00	2	0.5	160	PASS
127	198	40	60	51.2	35206	PASS
197	198	0.00	1	0.6	442	PASS
198	198	100	100	100.0	68757	PASS
199	198	5	9	7.1	4897	PASS
275	198	10	30	23.5	16143	PASS
365	198	1	100	4.2	2905	PASS
441	443	0.10	100	69.6	8535	PASS
442	198	40	100	93.1	64024	PASS
443	442	17	23	19.2	12268	PASS

Average of 2.061 to 2.073 min.: z93534.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
50.10	7570	61.00	511	72.30	26	82.00	545
51.10	23669	62.00	396	73.10	67	83.05	342
52.05	1352	63.10	896	73.30	264	84.00	1241
53.05	193	64.05	90	74.05	2634	85.05	409
53.30	180	65.05	384	75.10	4289	86.00	628
54.20	263	66.15	130	76.15	1357	87.00	236
55.05	145	67.90	139	77.05	29063	88.00	547
56.05	576	69.10	29924	78.10	1651	90.10	59
57.10	1705	70.05	160	79.05	1841	91.00	273
59.05	128	71.10	239	80.05	1645	92.00	177
59.60	31	71.95	14	81.10	1979	92.20	205

Average of 2.061 to 2.073 min.: z93534.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
93.05	3659	104.00	620	113.10	128	122.00	527
94.10	346	105.05	701	113.95	29	123.05	984
95.00	252	106.20	296	114.30	105	123.95	376
96.05	135	107.00	10184	114.70	98	125.05	622
97.10	93	108.00	1406	115.10	94	127.05	35206
98.05	2891	108.90	112	116.05	461	128.05	2467
99.05	2407	109.10	159	117.05	8616	129.00	14459
100.00	99	110.05	17560	118.00	589	129.95	985
101.00	1136	111.10	2781	119.00	132	131.10	335
102.00	188	112.10	504	119.90	156	132.10	225
103.10	392	112.80	70	121.30	27	132.55	47

Average of 2.061 to 2.073 min.: z93534.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
132.95	84	141.20	29	151.30	244	160.95	881
134.15	221	142.00	660	152.15	88	162.10	131
135.05	919	142.90	93	153.05	683	163.05	57
135.80	36	143.05	71	153.60	62	163.30	46
136.05	497	144.20	164	154.00	423	164.00	101
137.10	374	145.05	270	154.90	670	165.05	792
137.90	50	146.20	187	156.15	1465	165.95	365
138.05	5	147.05	1007	157.10	216	167.00	4755
139.20	178	148.00	2328	158.00	369	168.00	2188
140.00	78	148.95	400	159.00	181	169.05	650
141.00	1668	150.05	133	159.95	555	169.95	139

Average of 2.061 to 2.073 min.: z93534.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
170.65	132	181.50	30	190.05	108	199.95	417
172.15	447	182.25	180	190.30	77	200.75	66
173.00	429	182.80	37	191.05	486	201.50	699
174.05	654	183.00	36	191.30	30	201.90	13
175.05	1464	184.10	359	192.00	992	203.05	544
176.15	445	185.10	1297	193.05	1264	204.10	3024
177.05	638	186.05	10295	195.10	113	205.00	4506
178.10	197	187.10	2857	196.00	1992	206.10	16540
179.00	3222	188.05	370	196.80	442	207.05	2310
180.00	2141	189.10	633	198.00	68757	208.00	539
181.05	803	189.70	40	199.00	4897	209.05	235

Average of 2.061 to 2.073 min.: z93534.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
209.95	179	217.95	661	227.05	4591	235.90	163
210.60	370	218.80	134	228.05	558	236.20	196
210.95	738	219.20	112	228.95	833	237.05	200
211.70	42	221.05	3866	229.95	121	238.20	47

212.10	85	221.80	80	231.00	166	238.95	138
212.80	107	222.05	563	231.15	240	239.90	244
213.10	50	223.10	1027	232.05	16	241.05	448
213.30	158	224.10	10531	232.95	91	242.10	649
215.15	155	225.05	2203	233.20	47	243.05	452
215.85	376	225.85	258	233.80	269	244.05	7623
217.00	4583	226.20	67	235.05	275	244.80	238

Average of 2.061 to 2.073 min.: z93534.D\data.ms
dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
245.05	1089	253.25	353	263.10	76	273.05	1439
246.00	1845	255.00	40464	263.75	50	274.00	3170
247.00	391	256.00	6295	264.25	116	274.95	16143
247.90	28	257.00	384	265.05	1185	276.05	2176
248.10	151	258.00	2488	267.50	30	277.05	1568
249.20	74	258.80	163	267.70	63	277.80	183
249.85	136	259.10	48	268.80	43	278.00	256
250.75	35	259.90	70	269.50	53	280.10	37
251.00	42	261.00	37	270.00	82	280.85	107
251.50	44	261.25	81	271.15	123	282.00	58
252.90	92	261.70	21	272.00	120	282.90	47

Average of 2.061 to 2.073 min.: z93534.D\data.ms
dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
283.15	69	293.00	333	302.05	72	312.10	21
284.05	216	293.20	101	303.10	709	312.80	112
285.15	162	293.90	53	303.80	199	313.90	247
285.90	85	294.10	65	304.10	65	314.20	82
287.00	44	294.80	43	305.15	125	315.05	694
287.90	20	296.00	6222	306.10	57	315.70	153
288.10	30	297.05	1042	306.80	37	316.00	183
288.70	130	297.90	64	307.10	50	316.20	187
289.90	46	299.20	26	308.10	164	316.90	70
291.00	22	300.95	109	308.90	27	318.50	101
291.95	144	301.80	17	309.95	112	319.10	40

Average of 2.061 to 2.073 min.: z93534.D\data.ms
dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
319.50	25	326.00	16	336.00	22	345.50	25
320.10	23	326.90	602	337.70	23	345.85	476
320.80	112	327.85	135	339.20	19	346.10	161
321.05	109	328.25	83	339.80	17	347.30	43
322.10	97	329.80	68	340.30	22	348.10	42
323.05	1483	330.90	24	341.00	83	349.10	52
323.80	34	332.00	73	342.00	18	350.05	65
324.05	177	332.95	208	342.20	54	350.30	66
324.30	111	334.00	1508	342.90	27	350.70	47
324.90	18	334.95	318	343.90	55	352.10	556
325.20	43	335.20	65	344.30	72	352.90	67

Average of 2.061 to 2.073 min.: z93534.D\data.ms
dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
353.05	411	363.50	35	382.10	17	394.00	19
354.05	639	364.95	2905	382.80	42	397.30	39
355.05	72	366.05	429	383.10	310	400.95	92
357.70	20	366.60	65	383.95	109	401.85	243
358.00	32	367.00	32	384.80	101	402.10	250
359.70	20	370.05	99	385.40	22	402.85	226
360.20	26	371.00	185	386.00	64	403.10	356
360.80	23	372.05	981	387.80	26	404.05	327
361.00	57	373.10	103	390.00	91	405.20	31
361.50	16	375.65	83	390.95	54	406.70	41
362.80	37	377.50	51	391.80	20	407.50	21

Average of 2.061 to 2.073 min.: z93534.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
409.60	33	425.20	30	437.85	58	449.40	24
411.20	38	425.40	28	439.10	20	450.50	23
412.60	23	426.30	33	439.60	37	451.80	33
413.60	38	426.90	38	440.00	17	454.60	21
415.20	22	427.75	41	441.05	8535	456.20	21
416.00	23	428.60	50	442.00	64024	463.00	20
420.95	511	430.00	24	443.05	12268	463.90	21
421.90	222	431.00	29	444.05	1074	472.60	35
422.10	211	431.50	24	445.15	153	473.80	49
423.10	3133	432.40	40	446.20	91	475.40	32
424.05	643	435.80	34	448.30	45	476.40	29

Average of 2.061 to 2.073 min.: z93534.D\data.ms

dftpp

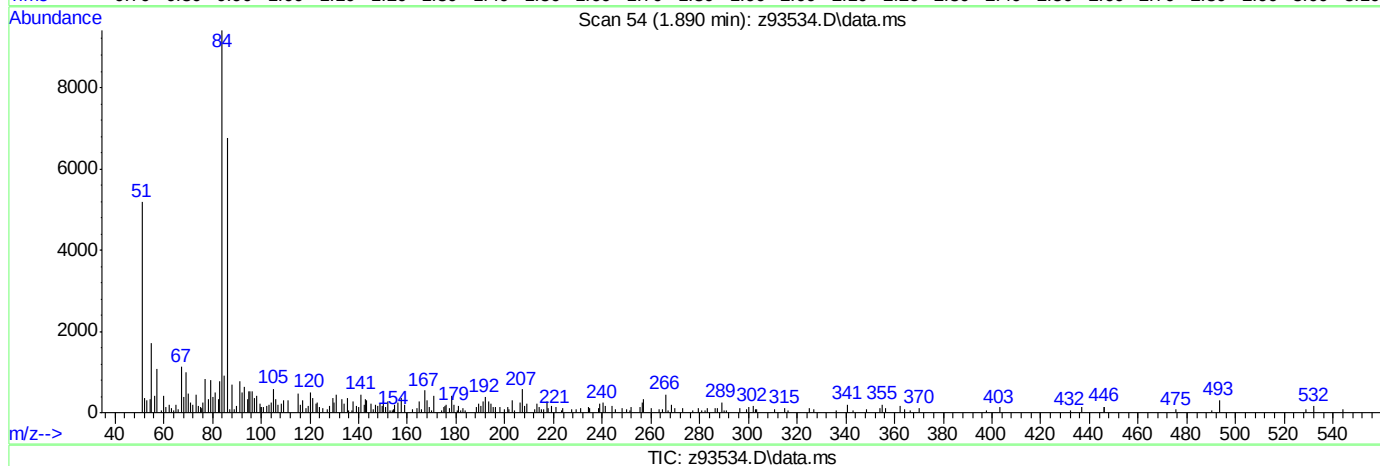
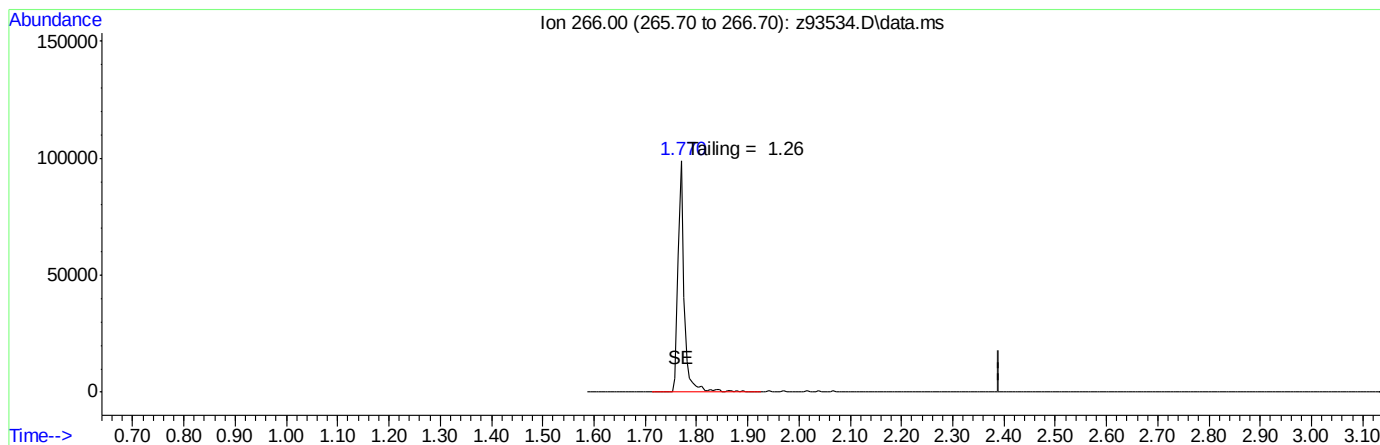
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
476.80	28	538.40	21				
479.10	58	540.50	21				
479.70	20	544.30	43				
490.90	22	546.40	19				
492.80	27	546.80	24				
501.40	18						
511.60	16						
519.00	64						
525.60	18						
529.20	56						
532.20	29						

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez4640\
Data File : z93534.D
Acq On : 11 Jul 2014 10:25 pm
Operator : andrews1
Sample : dftpp
Misc : op76211, ez4640
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 11 22:30:49 2014
Quant Method : C:\MSDCHEM\1\METHODS\DFTPPZ.M
Quant Title : column rtx-5msi 30mx0.25mmx0.25um
QLast Update : Fri Jul 04 07:30:26 2014
Response via : Initial Calibration



(1) Pentachlorophenol

1.890min (-1.890) 0.00

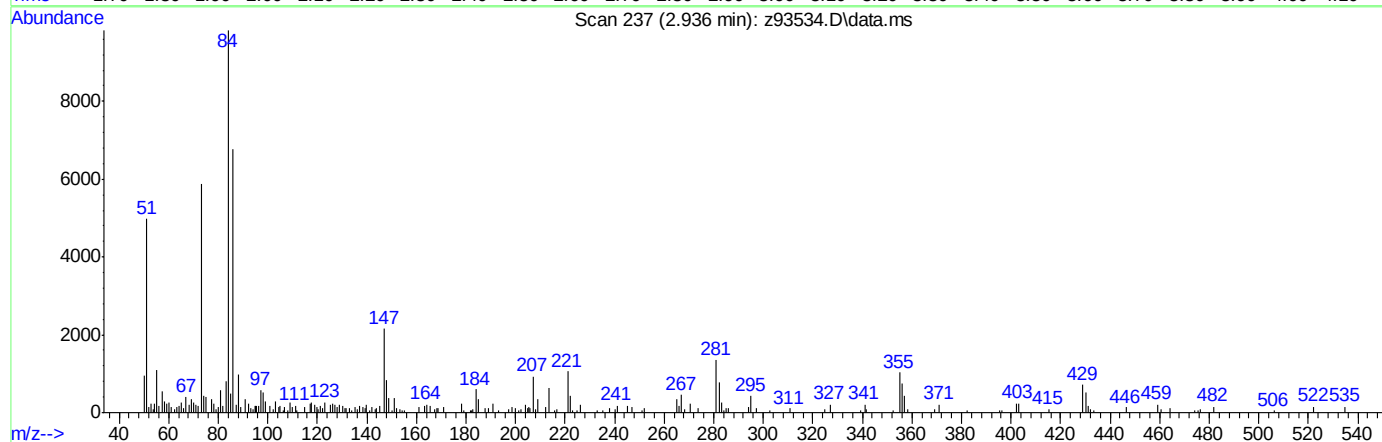
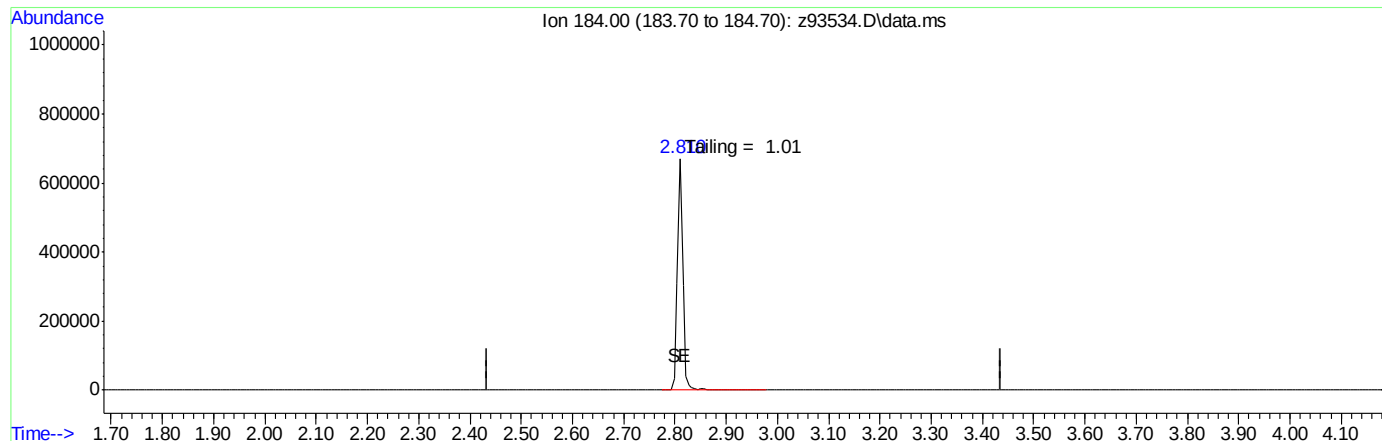
response 0

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\ez4640\
Data File : z93534.D
Acq On : 11 Jul 2014 10:25 pm
Operator : andrews1
Sample : dftpp
Misc : op76211, ez4640
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 11 22:30:49 2014
Quant Method : C:\MSDCHEM\1\METHODS\DFTPPZ.M
Quant Title : column rtx-5msi 30mx0.25mmx0.25um
QLast Update : Fri Jul 04 07:30:26 2014
Response via : Initial Calibration



(2) Benzidine

2.936min (-2.936) 0.00

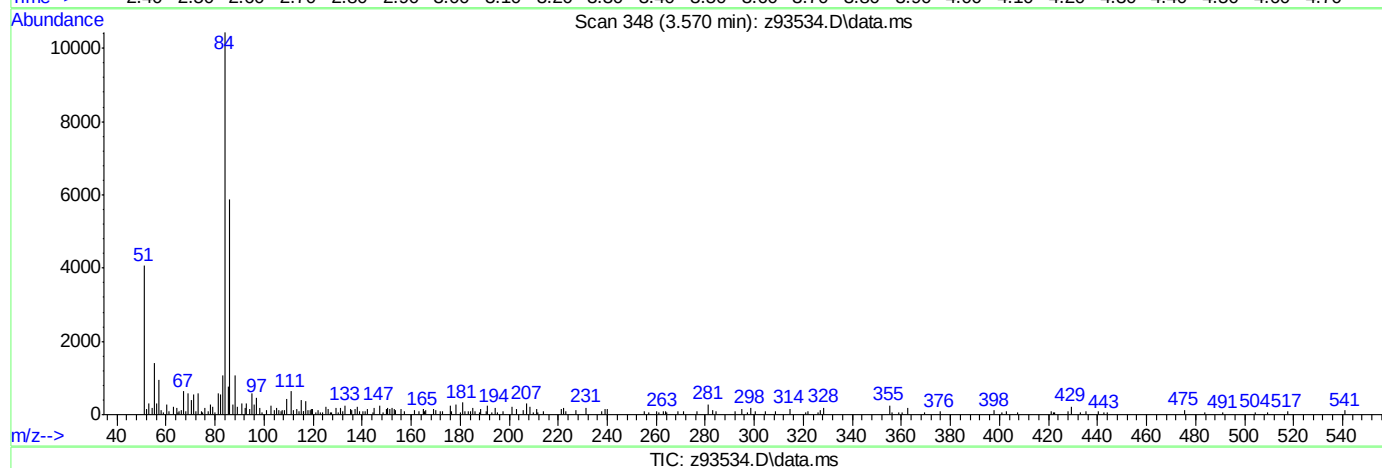
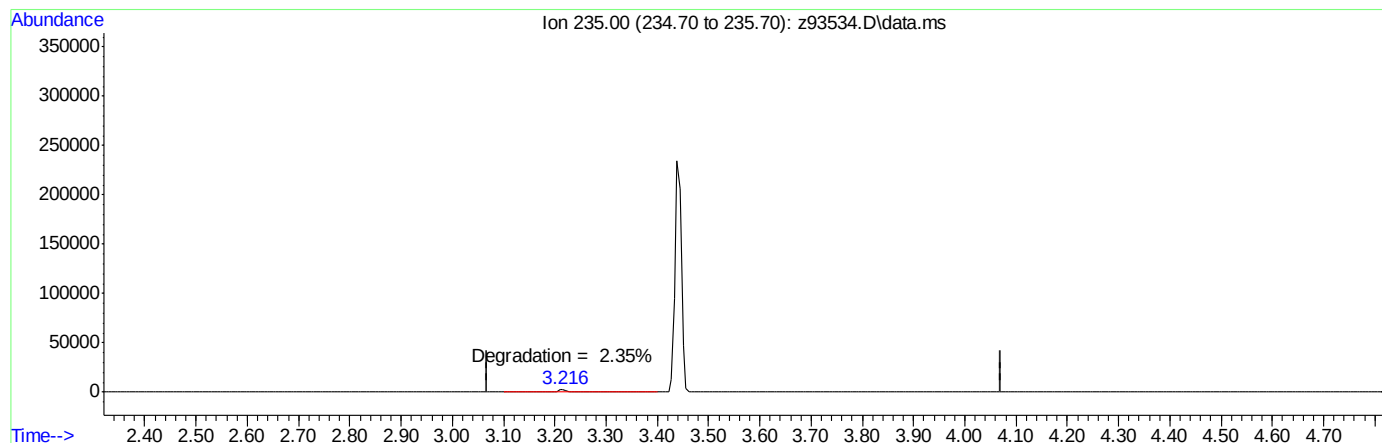
response 0

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\ez4640\
Data File : z93534.D
Acq On : 11 Jul 2014 10:25 pm
Operator : andrews1
Sample : dftpp
Misc : op76211, ez4640
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 11 22:30:49 2014
Quant Method : C:\MSDCHEM\1\METHODS\DFTPPZ.M
Quant Title : column rtx-5msi 30mx0.25mmx0.25um
QLast Update : Fri Jul 04 07:30:26 2014
Response via : Initial Calibration



(3) PP-DDT

3.570min (-3.570) 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\2P1583\
 Data File : 2p37933.D
 Acq On : 27 Jun 2014 11:04 am
 Operator : elwiraa
 Sample : ic1583-100
 Misc : op75638,e2p1583,
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 30 16:13:14 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Fri Jun 27 13:42:25 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.266	152	1102615	40.00	ppb	0.00
24) Naphthalene-d8	5.320	136	4050743	40.00	ppb	0.00
47) Acenaphthene-d10	6.759	164	2373767	40.00	ppb	0.00
69) Phenanthrene-d10	7.994	188	4264053	40.00	ppb	0.00
83) Chrysene-d12	11.134	240	4017923	40.00	ppb	0.01
92) Perylene-d12	13.107	264	4155786	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	4.266	152	1102615	40.00	ppb	0.00
104) Acenaphthene-d10a	6.759	164	2373767	40.00	ppb	0.00
107) Chrysene-d12a	11.134	240	4017923	40.00	ppb	0.01
110) Phenanthrene-d10a	7.994	188	4264053	40.00	ppb	0.00
112) Naphthalene-d8a	5.320	136	4050743	40.00	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol	3.159	112	3548646	96.98	ppb	0.00
Spiked Amount	50.000	Range	11 - 58	Recovery	=	193.96%#
8) Phenol-d5	4.031	99	4193049	97.21	ppb	0.00
Spiked Amount	50.000	Range	10 - 59	Recovery	=	194.42%#
25) Nitrobenzene-d5	4.742	82	3533473	102.08	ppb	0.00
Spiked Amount	50.000	Range	19 - 61	Recovery	=	204.16%#
51) 2-Fluorobiphenyl	6.218	172	6326593	90.88	ppb	0.00
Spiked Amount	50.000	Range	21 - 58	Recovery	=	181.76%#
73) 2,4,6-Tribromophenol	7.411	330	1341704	101.89	ppb	0.00
Spiked Amount	50.000	Range	12 - 68	Recovery	=	203.78%#
85) Terphenyl-d14	9.738	244	8527097	100.62	ppb	0.00
Spiked Amount	50.000	Range	16 - 65	Recovery	=	201.24%#
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	1.453	88	1534937	93.57	ppb	100
3) Pyridine	1.736	79	3809384	92.95	ppb	99
4) N-Nitrosodimethylamine	1.715	74	2266799	100.97	ppb	93
6) Indene	4.480	116	5539719	95.68	ppb	98
7) Cumene	3.571	105	7848565	92.68	ppb	99
9) Phenol	4.042	94	4397788	94.80	ppb	100
10) Aniline	3.999	93	4187353	91.38	ppb	96
11) bis(2-Chloroethyl)ether	4.068	93	2733379	95.42	ppb	97
12) 2-Chlorophenol	4.106	128	3566408	94.79	ppb	97
13) Decane	4.154	57	2666297	96.21	ppb	98
14) 1,3-Dichlorobenzene	4.218	146	4016929	94.34	ppb	99
15) 1,4-Dichlorobenzene	4.282	146	4021591	95.88	ppb	99
16) Benzyl alcohol	4.416	108	2049463	96.67	ppb	98
17) 1,2-Dichlorobenzene	4.405	146	3675825	92.56	ppb	99
18) Acetophenone	4.625	105	4730606	95.16	ppb	97
19) 2-Methylphenol	4.534	108	3016481	98.55	ppb	100
20) 2,2'-oxybis(1-Chloropr...	4.518	121	808877	97.68	ppb	95
21) 3&4-Methylphenol	4.667	108	3352590	99.33	ppb	98
22) n-Nitroso-di-n-propyla...	4.635	70	2181580	99.61	ppb	98
23) Hexachloroethane	4.678	201	1469161	93.26	ppb	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1583\
 Data File : 2p37933.D
 Acq On : 27 Jun 2014 11:04 am
 Operator : elwiraa
 Sample : ic1583-100
 Misc : op75638,e2p1583,
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 30 16:13:14 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Fri Jun 27 13:42:25 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Nitrobenzene	4.758	77	3359261	95.55	ppb	98
27) Quinoline	5.651	129	7589286	100.67	ppb	100
28) Isophorone	4.961	82	5795341	98.50	ppb	98
29) 2-Nitrophenol	5.020	139	2004069	94.87	ppb	90
30) 2,4-Dimethylphenol	5.090	107	3181049	103.16	ppb	97
31) Benzoic acid	5.266	105	2823588m	101.10	ppb	
32) bis(2-Chloroethoxy)met...	5.149	93	3579781	100.61	ppb	100
33) 2,4-Dichlorophenol	5.234	162	3071813	100.58	ppb	97
34) 2,6-Dichlorophenol	5.411	162	2793102	94.76	ppb	98
35) 1,3,5-Trichlorobenzene	5.026	180	3389467	90.93	ppb	100
36) 1,2,4-Trichlorobenzene	5.282	180	3206859	92.55	ppb	99
37) 1,2,3-Trichlorobenzene	5.464	180	3135885	93.94	ppb	99
38) Naphthalene	5.336	128	7532300	75.84	ppb	93
39) 4-Chloroaniline	5.411	127	4067045	91.94	ppb	99
40) 2,3-Dichloroaniline	6.149	161	3837337	98.42	ppb	98
41) Caprolactam	5.737	113	1012037	105.34	ppb	98
42) Hexachlorobutadiene	5.448	225	1898912	95.64	ppb	99
43) 4-Chloro-3-methylphenol	5.844	107	3022984	98.68	ppb	99
44) 2-Methylnaphthalene	5.908	141	5744301	92.53	ppb	98
45) 1-Methylnaphthalene	5.988	141	5808268	93.64	ppb	95
46) Dimethylnaphthalene	6.422	156	5484493	92.34	ppb	98
48) Hexachlorocyclopentadiene	6.042	237	3581867	209.51	ppb	99
49) 2,4,6-Trichlorophenol	6.165	196	2158791	96.52	ppb	97
50) 2,4,5-Trichlorophenol	6.208	196	2409812	96.54	ppb	98
52) 2-Chloronaphthalene	6.309	162	5769269	88.66	ppb	97
53) Biphenyl	6.293	154	6978211	83.23	ppb	99
54) 2-Nitroaniline	6.416	65	1812573	96.90	ppb	97
55) Dimethylphthalate	6.561	163	7293684	95.69	ppb	99
56) Acenaphthylene	6.641	152	8471146	77.05	ppb	77
57) 2,6-Dinitrotoluene	6.614	165	1746981	98.25	ppb	96
58) 3-Nitroaniline	6.753	138	2068301	98.75	ppb	97
59) Acenaphthene	6.785	153	6193270	91.67	ppb	98
60) 2,4-Dinitrophenol	6.855	184	2436541	219.61	ppb	98
61) 4-Nitrophenol	6.940	109	855943	100.35	ppb	97
62) Dibenzofuran	6.930	168	7616110	80.24	ppb	77
63) 2,4-Dinitrotoluene	6.957	165	2271960	98.45	ppb	79
64) 2,3,4,6-Tetrachlorophenol	7.053	232	2083041	101.17	ppb	96
65) Diethylphthalate	7.138	149	7302912	94.58	ppb	99
66) Fluorene	7.208	166	6338955	86.44	ppb	100
67) 4-Chlorophenyl-phenyle...	7.213	204	2926131	87.14	ppb	96
68) 4-Nitroaniline	7.267	138	2061561	102.93	ppb	100
70) 4,6-Dinitro-2-methylph...	7.299	198	1529350	106.71	ppb	91
71) n-Nitrosodiphenylamine	7.320	169	4751037	93.62	ppb	99
72) 1,2-Diphenylhydrazine	7.347	77	6614920m	92.33	ppb	
74) 4-Bromophenyl-phenylether	7.614	248	2230036	97.35	ppb	95
75) Hexachlorobenzene	7.673	284	2763512	96.77	ppb	98
76) Pentachlorophenol	7.855	266	3163624	207.05	ppb	99
77) Phenanthrene	8.021	178	8839553	82.70	ppb	84
78) Anthracene	8.064	178	8952584	80.73	ppb	98
79) Carbazole	8.229	167	9261968	82.85	ppb	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1583\
 Data File : 2p37933.D
 Acq On : 27 Jun 2014 11:04 am
 Operator : elwiraa
 Sample : ic1583-100
 Misc : op75638,e2p1583,
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 30 16:13:14 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Fri Jun 27 13:42:25 2014
 Response via : Initial Calibration

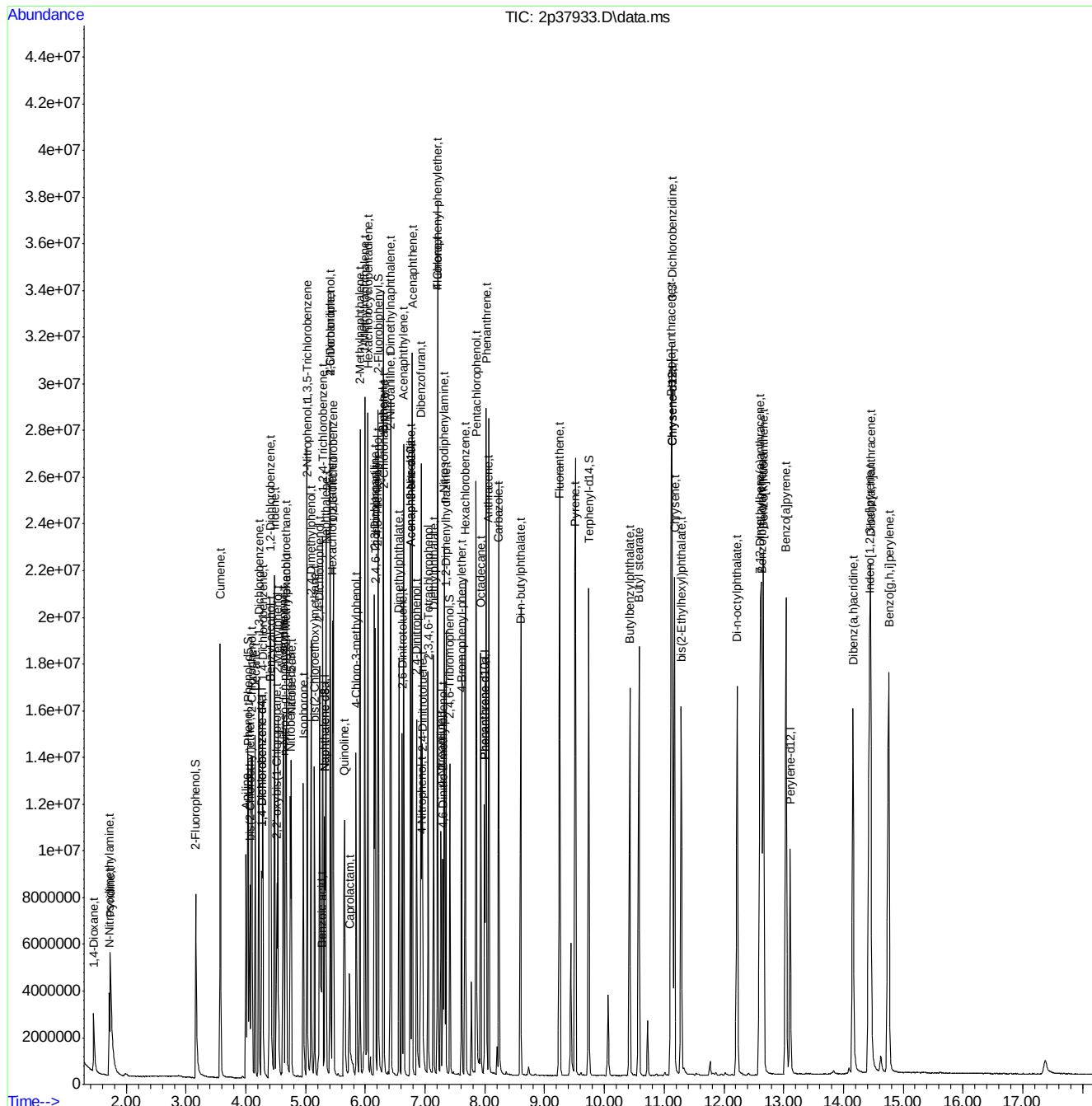
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) Di-n-butylphthalate	8.593	149	10667643	74.95	ppb	92
81) Fluoranthene	9.246	202	10960314	83.88	ppb	93
82) Octadecane	7.930	43	2409391	94.44	ppb	99
84) Pyrene	9.508	202	11402946	89.01	ppb	98
86) Butylbenzylphthalate	10.422	149	6193970	100.88	ppb	99
87) Butyl stearate	10.578	56	3580530	100.63	ppb	96
88) Benzo[a]anthracene	11.118	228	11515227	99.48	ppb	99
89) 3,3'-Dichlorobenzidine	11.128	252	4383900m	39.58	ppb	
90) Chrysene	11.177	228	10399190	100.06	ppb	99
91) bis(2-Ethylhexyl)phtha...	11.284	149	8383153	103.27	ppb	99
93) Di-n-octylphthalate	12.220	149	14376737	94.04	ppb	95
94) Benzo[b]fluoranthene	12.631	252	12597974	97.11	ppb	98
95) Benzo[k]fluoranthene	12.669	252	10349808	91.44	ppb	98
96) Benzo[a]pyrene	13.043	252	11203490	95.78	ppb	99
97) Indeno[1,2,3-cd]pyrene	14.439	276	13722715	96.82	ppb	97
98) Dibenz(a,h)acridine	14.166	279	10226760	98.15	ppb	99
99) Dibenz[a,h]anthracene	14.461	278	10632502	97.02	ppb	97
100) 7,12-Dimethylbenz(a)an...	12.610	256	5640949	95.25	ppb	99
101) Benzo[g,h,i]perylene	14.760	276	11465947	96.51	ppb	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1583\
Data File : 2p37933.D
Acq On : 27 Jun 2014 11:04 am
Operator : elwiraa
Sample : ic1583-100
Misc : op75638,e2p1583,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 30 16:13:14 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 27 13:42:25 2014
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: E2P1583-IC1583

Method: SW846 8270D

Lab FileID: 2P37933.D

Analyst approved: 07/01/14 12:35 Elwira Antonik

Injection Time: 06/27/14 11:04

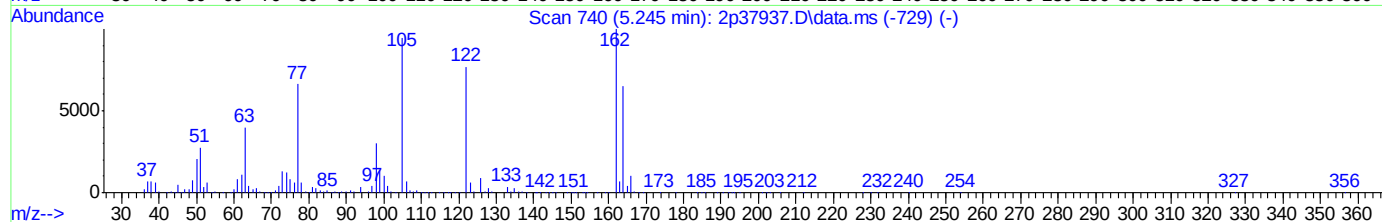
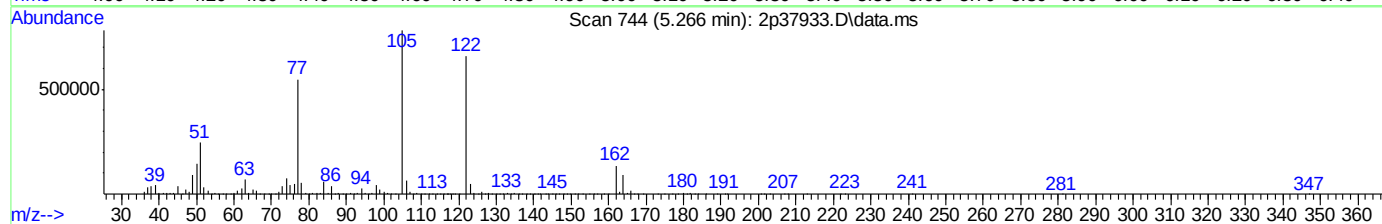
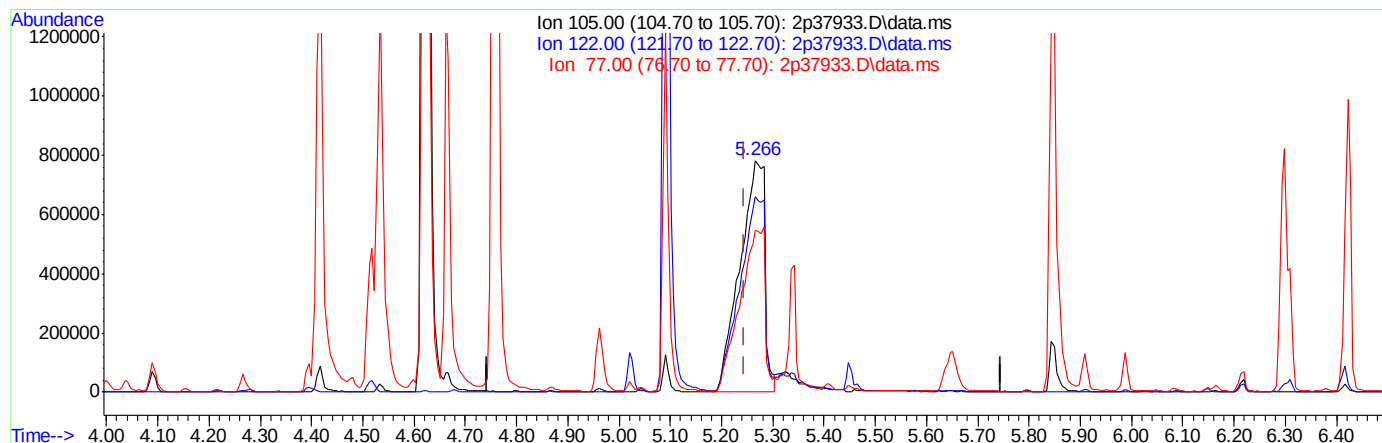
Supervisor approved: 07/02/14 17:06 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic acid	65-85-0		5.27	Poor instrument integration
1,2-Diphenylhydrazine	122-66-7		7.35	Poor instrument integration
3,3'-Dichlorobenzidine	91-94-1		11.13	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1583\
Data File : 2p37933.D
Acq On : 27 Jun 2014 11:04 am
Operator : elwiraa
Sample : ic1583-100
Misc : op75638,e2p1583,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 27 13:42:34 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 27 13:42:25 2014
Response via : Initial Calibration



TIC: 2p37933.D\data.ms

(31) Benzoic acid (t)

5.266min (+0.022) 93.97ppb

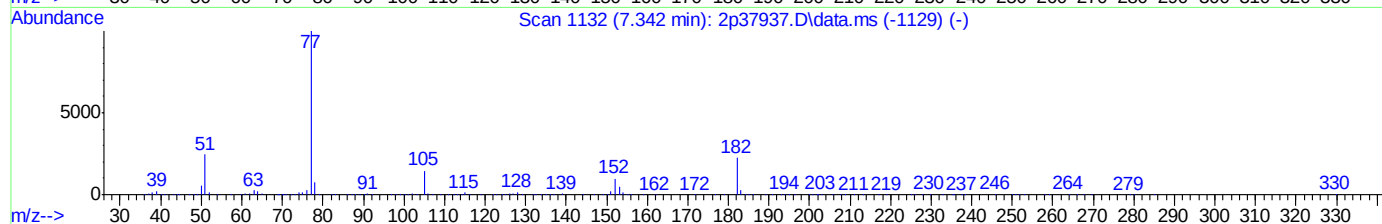
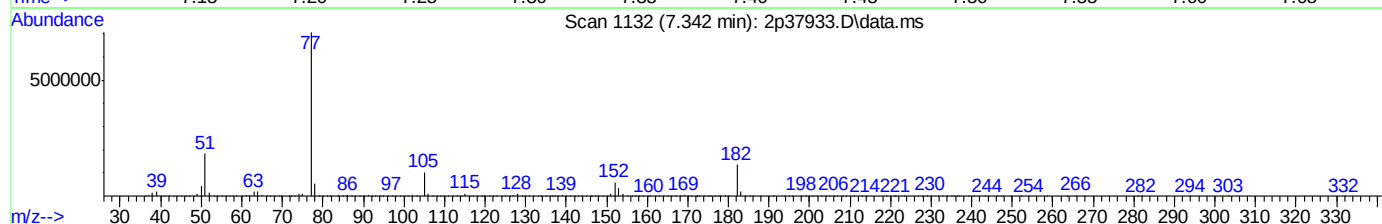
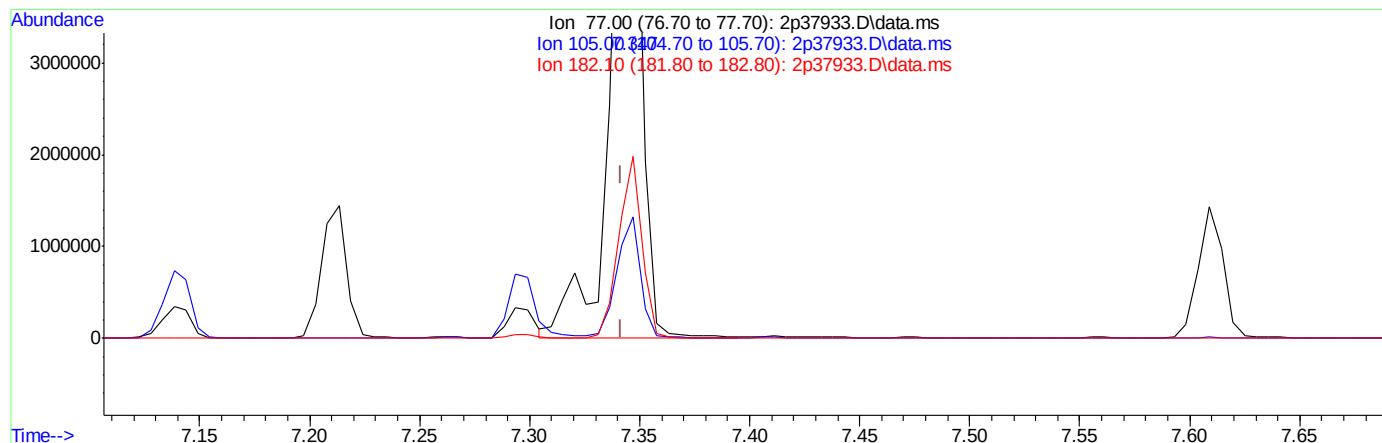
response 2624385

Ion	Exp%	Act%
105.00	100	100
122.00	78.20	84.00
77.00	69.40	69.58
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1583\
Data File : 2p37933.D
Acq On : 27 Jun 2014 11:04 am
Operator : elwiraa
Sample : ic1583-100
Misc : op75638,e2p1583,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 27 13:45:17 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 27 13:42:25 2014
Response via : Initial Calibration



TIC: 2p37933.D\data.ms

(72) 1,2-Diphenylhydrazine (t)

7.347min (+0.005) 99.64ppb

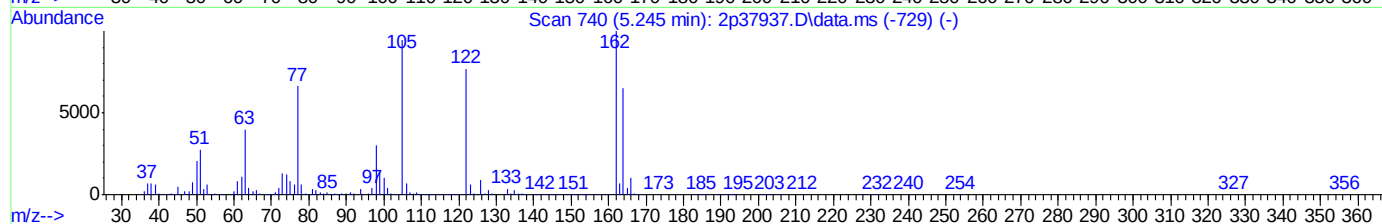
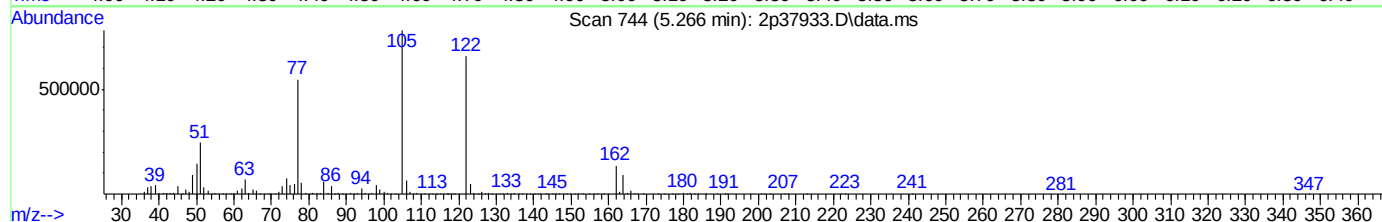
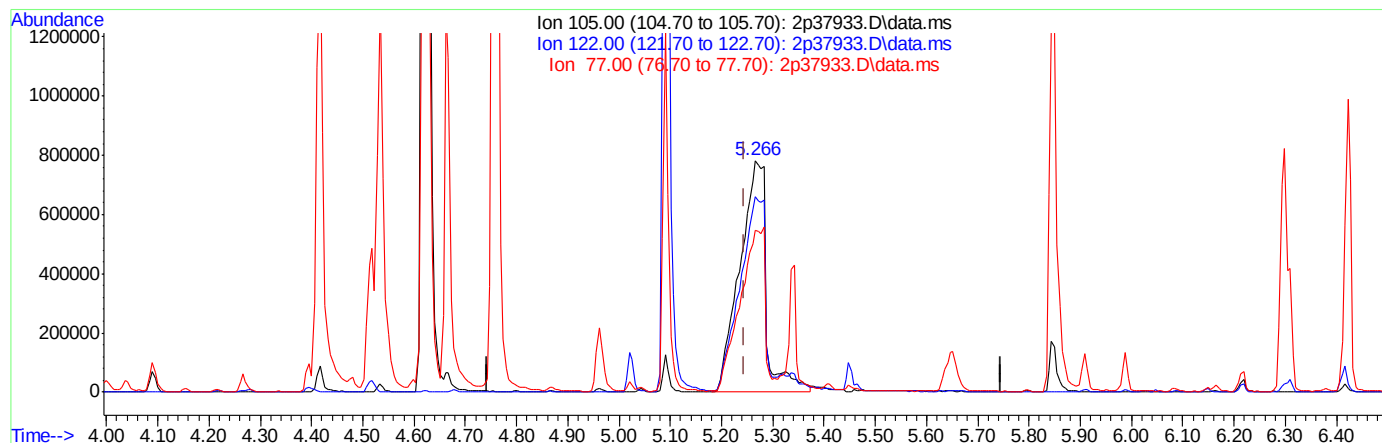
response 7138919

Ion	Exp%	Act%
77.00	100	100
105.00	14.60	14.76
182.10	22.40	23.68
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1583\
Data File : 2p37933.D
Acq On : 27 Jun 2014 11:04 am
Operator : elwiraa
Sample : ic1583-100
Misc : op75638,e2p1583,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 27 13:57:10 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 27 13:42:25 2014
Response via : Initial Calibration



TIC: 2p37933.D\data.ms

(31) Benzoic acid (t)

5.266min (+0.022) 101.10ppb m

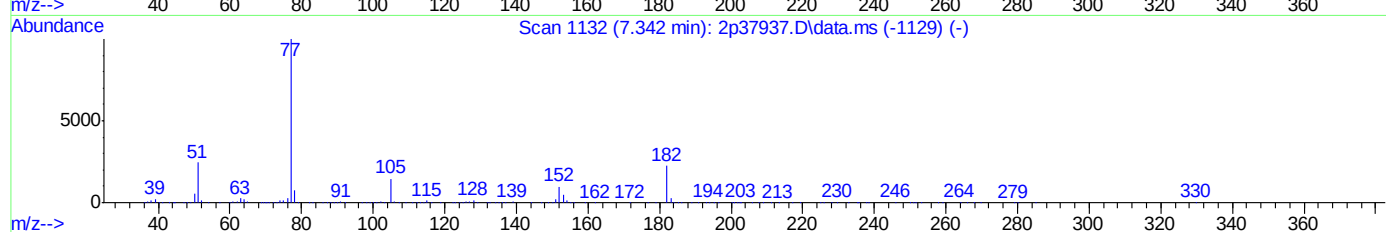
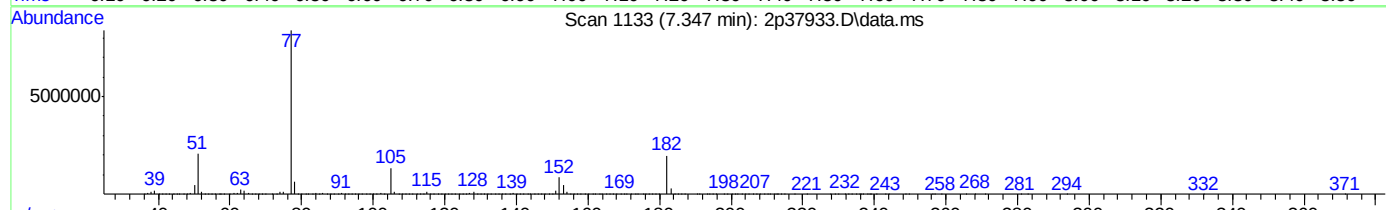
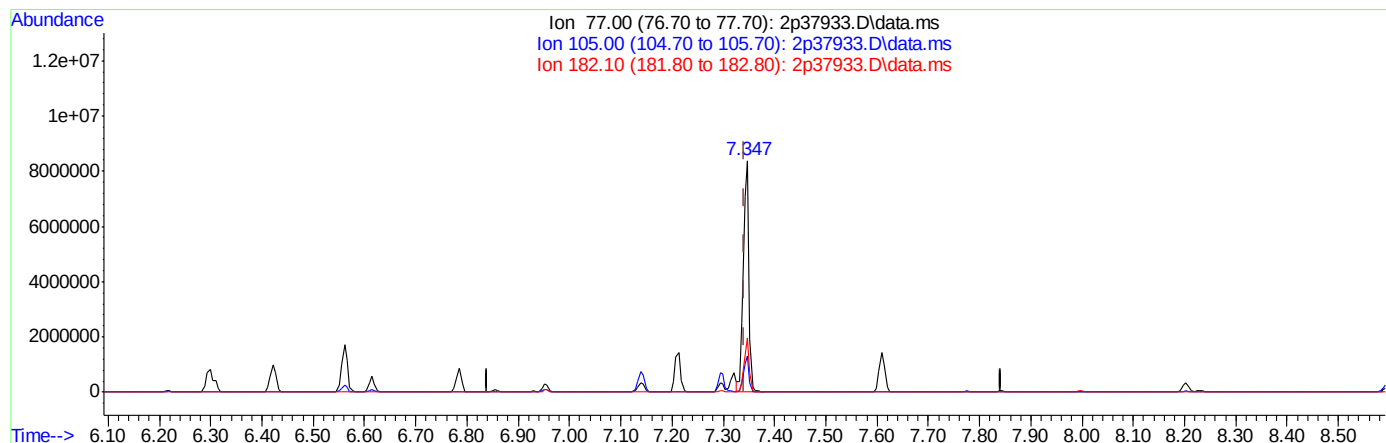
response 2823588

Ion	Exp%	Act%
105.00	100	100
122.00	78.20	84.37
77.00	69.40	70.10
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1583\
Data File : 2p37933.D
Acq On : 27 Jun 2014 11:04 am
Operator : elwiraa
Sample : ic1583-100
Misc : op75638,e2p1583,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 27 13:57:10 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 27 13:42:25 2014
Response via : Initial Calibration



TIC: 2p37933.D\data.ms

(72) 1,2-Diphenylhydrazine (t)

7.347min (+0.005) 92.33ppb m

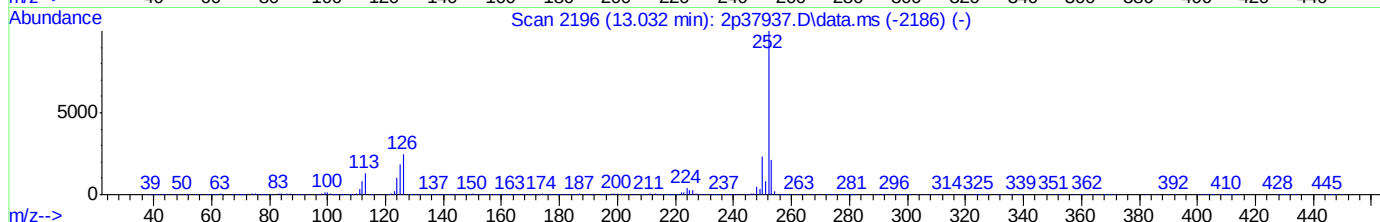
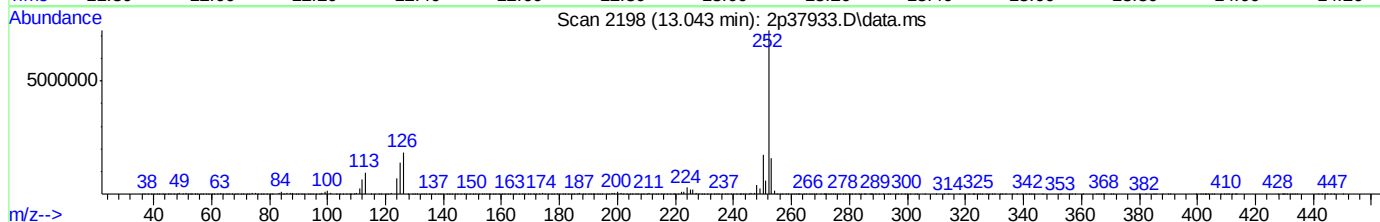
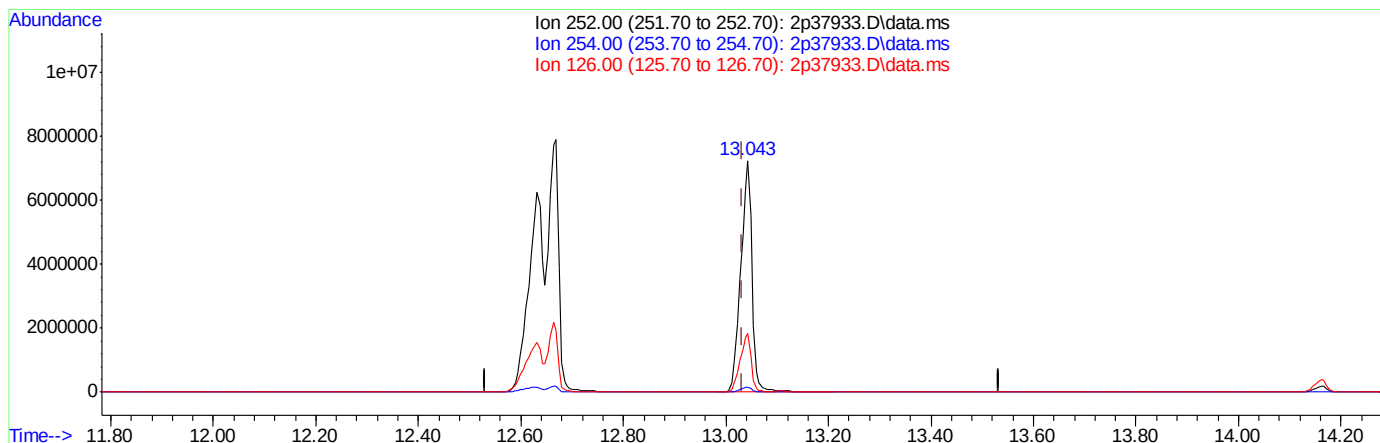
response 6614920

Ion	Exp%	Act%
77.00	100	100
105.00	14.60	15.79
182.10	22.40	23.63
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1583\
Data File : 2p37933.D
Acq On : 27 Jun 2014 11:04 am
Operator : elwiraa
Sample : ic1583-100
Misc : op75638,e2p1583,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 27 13:57:10 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 27 13:42:25 2014
Response via : Initial Calibration



TIC: 2p37933.D\data.ms

(89) 3,3'-Dichlorobenzidine (t)

13.043min (+0.011) 101.14ppb

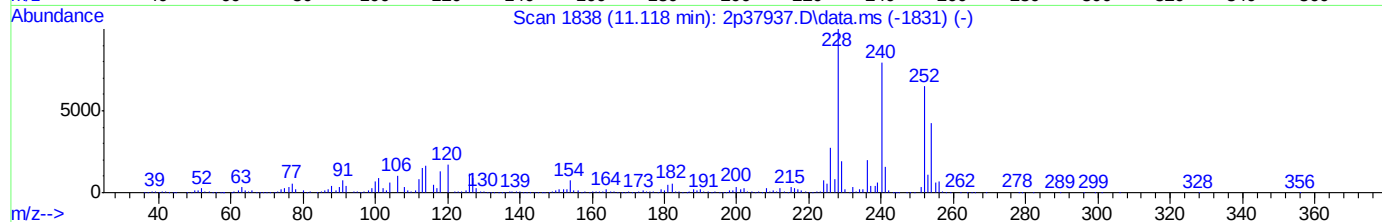
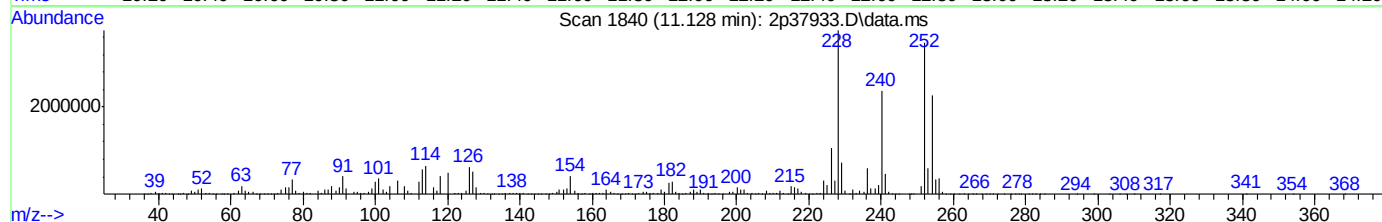
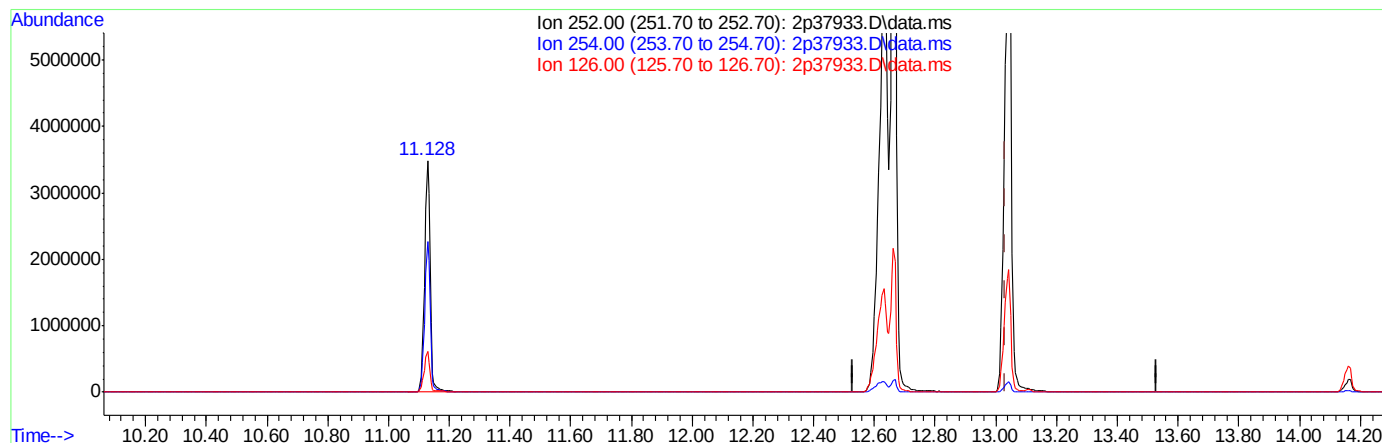
response 11201307

Ion	Exp%	Act%
252.00	100	100
254.00	2.30	2.24
126.00	24.70	25.45
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1583\
Data File : 2p37933.D
Acq On : 27 Jun 2014 11:04 am
Operator : elwiraa
Sample : ic1583-100
Misc : op75638,e2p1583,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 30 16:13:14 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 27 13:42:25 2014
Response via : Initial Calibration



TIC: 2p37933.D\data.ms

(89) 3,3'-Dichlorobenzidine (t)

11.128min (-1.904) 39.58ppb m

response 4383900

Ion	Exp%	Act%
252.00	100	100
254.00	2.30	65.06#
126.00	24.70	17.78
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1583\
 Data File : 2p37934.D
 Acq On : 27 Jun 2014 11:36 am
 Operator : elwiraa
 Sample : ic1583-1
 Misc : op75638,e2p1583,
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 30 16:18:59 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Fri Jun 27 13:45:29 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.266	152	1243640	40.00	ppb	0.00
24) Naphthalene-d8	5.314	136	4633260	40.00	ppb	0.00
47) Acenaphthene-d10	6.753	164	2516930	40.00	ppb	0.00
69) Phenanthrene-d10	7.989	188	4225897	40.00	ppb	0.00
83) Chrysene-d12	11.118	240	4242319	40.00	ppb	0.00
92) Perylene-d12	13.097	264	3963095	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	4.266	152	1243640	40.00	ppb	0.00
104) Acenaphthene-d10a	6.753	164	2516930	40.00	ppb	0.00
107) Chrysene-d12a	11.118	240	4242319	40.00	ppb	0.00
110) Phenanthrene-d10a	7.989	188	4225897	40.00	ppb	0.00
112) Naphthalene-d8a	5.314	136	4633260	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	4.063	99	26404	0.55	ppb	0.04
Spiked Amount	50.000	Range	10 - 59	Recovery	=	1.10%#
25) Nitrobenzene-d5	4.769	82	30522	0.76	ppb	0.03
Spiked Amount	50.000	Range	19 - 61	Recovery	=	1.52%#
51) 2-Fluorobiphenyl	6.213	172	80514	1.14	ppb	0.00
Spiked Amount	50.000	Range	21 - 58	Recovery	=	2.28%#
73) 2,4,6-Tribromophenol	7.411	330	9677	0.73	ppb	0.00
Spiked Amount	50.000	Range	12 - 68	Recovery	=	1.46%#
85) Terphenyl-d14	9.738	244	74164	0.83	ppb	0.00
Spiked Amount	50.000	Range	16 - 65	Recovery	=	1.66%#
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	1.469	88	16598	0.93	ppb	91
6) Indene	4.485	116	56726	0.89	ppb	89
7) Cumene	3.576	105	78887	0.86	ppb	99
9) Phenol	4.079	94	31322	0.61	ppb	83
10) Aniline	4.041	93	46160m	0.93	ppb	
11) bis(2-Chloroethyl)ether	4.100	93	31896	1.01	ppb	95
12) 2-Chlorophenol	4.132	128	35653	0.86	ppb	92
13) Decane	4.154	57	30319	0.99	ppb	90
14) 1,3-Dichlorobenzene	4.223	146	43713	0.94	ppb	89
15) 1,4-Dichlorobenzene	4.282	146	49381	1.07	ppb	90
17) 1,2-Dichlorobenzene	4.410	146	43233	1.00	ppb	86
18) Acetophenone	4.667	105	45944m	0.84	ppb	
19) 2-Methylphenol	4.555	108	35319m	1.03	ppb	
20) 2,2'-oxybis(1-Chloropr...	4.517	121	7979	0.86	ppb	# 80
21) 3&4-Methylphenol	4.726	108	36914m	0.97	ppb	
22) n-Nitroso-di-n-propyla...	4.630	70	20020	0.81	ppb	81
23) Hexachloroethane	4.678	201	18433	1.07	ppb	93
26) Nitrobenzene	4.779	77	40560	1.03	ppb	81
27) Quinoline	5.646	129	73143	0.85	ppb	88
28) Isophorone	4.951	82	60967	0.91	ppb	93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1583\
 Data File : 2p37934.D
 Acq On : 27 Jun 2014 11:36 am
 Operator : elwiraa
 Sample : ic1583-1
 Misc : op75638,e2p1583,
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 30 16:18:59 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Fri Jun 27 13:45:29 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
29) 2-Nitrophenol	5.047	139	15105	0.64	ppb	82
32) bis(2-Chloroethoxy)met...	5.154	93	33817	0.83	ppb	88
33) 2,4-Dichlorophenol	5.293	162	24006	0.69	ppb	95
34) 2,6-Dichlorophenol	5.427	162	28687	0.87	ppb	84
35) 1,3,5-Trichlorobenzene	5.025	180	38004	0.93	ppb	98
36) 1,2,4-Trichlorobenzene	5.282	180	38772	1.02	ppb	99
37) 1,2,3-Trichlorobenzene	5.464	180	36774	0.99	ppb	86
38) Naphthalene	5.336	128	106627	1.07	ppb	97
39) 4-Chloroaniline	5.432	127	46637	0.96	ppb	96
40) 2,3-Dichloroaniline	6.154	161	37291	0.84	ppb	89
42) Hexachlorobutadiene	5.448	225	21483	0.97	ppb	96
43) 4-Chloro-3-methylphenol	5.871	107	24238m	0.70	ppb	
44) 2-Methylnaphthalene	5.913	141	60843	0.89	ppb	97
45) 1-Methylnaphthalene	5.988	141	70906	1.03	ppb	99
46) Dimethylnaphthalene	6.421	156	61350	0.94	ppb	95
49) 2,4,6-Trichlorophenol	6.170	196	17526	0.75	ppb	94
50) 2,4,5-Trichlorophenol	6.224	196	23120	0.89	ppb	71
52) 2-Chloronaphthalene	6.309	162	66696	1.02	ppb	97
53) Biphenyl	6.293	154	86446	1.06	ppb	99
54) 2-Nitroaniline	6.432	65	17806	0.91	ppb	92
55) Dimethylphthalate	6.555	163	73540	0.93	ppb	93
56) Acenaphthylene	6.641	152	107276	1.04	ppb	98
57) 2,6-Dinitrotoluene	6.614	165	14643	0.78	ppb	99
58) 3-Nitroaniline	6.780	138	17137	0.78	ppb	78
59) Acenaphthene	6.780	153	69888	1.02	ppb	99
62) Dibenzofuran	6.930	168	96694	1.07	ppb	97
63) 2,4-Dinitrotoluene	6.972	165	17571	0.72	ppb	# 44
64) 2,3,4,6-Tetrachlorophenol	7.058	232	17504	0.80	ppb	93
65) Diethylphthalate	7.127	149	73754	0.93	ppb	98
66) Fluorene	7.208	166	74173	1.02	ppb	96
67) 4-Chlorophenyl-phenyle...	7.213	204	35424	1.06	ppb	94
68) 4-Nitroaniline	7.277	138	14314	0.66	ppb	90
71) n-Nitrosodiphenylamine	7.315	169	50075	1.03	ppb	95
72) 1,2-Diphenylhydrazine	7.341	77	66105	0.93	ppb	98
74) 4-Bromophenyl-phenylether	7.614	248	21612	0.96	ppb	85
75) Hexachlorobenzene	7.662	284	26886	0.97	ppb	89
77) Phenanthrene	8.010	178	106784	1.10	ppb	97
78) Anthracene	8.063	178	101761	1.02	ppb	94
79) Carbazole	8.240	167	99677	0.98	ppb	99
80) Di-n-butylphthalate	8.593	149	105409	0.85	ppb	99
81) Fluoranthene	9.246	202	103201	0.87	ppb	98
82) Octadecane	7.930	43	21252	0.86	ppb	92
84) Pyrene	9.508	202	119519	0.93	ppb	98
86) Butylbenzylphthalate	10.412	149	44914	0.69	ppb	99
87) Butyl stearate	10.561	56	25688	0.68	ppb	90
88) Benzo[a]anthracene	11.107	228	115004	0.94	ppb	90
89) 3,3'-Dichlorobenzidine	11.128	252	35799m	0.30	ppb	
90) Chrysene	11.155	228	94755	0.86	ppb	97
91) bis(2-Ethylhexyl)phtha...	11.278	149	55620	0.64	ppb	98
93) Di-n-octylphthalate	12.203	149	94371	0.67	ppb	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1583\
Data File : 2p37934.D
Acq On : 27 Jun 2014 11:36 am
Operator : elwiraa
Sample : ic1583-1
Misc : op75638,e2p1583,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 30 16:18:59 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 27 13:45:29 2014
Response via : Initial Calibration

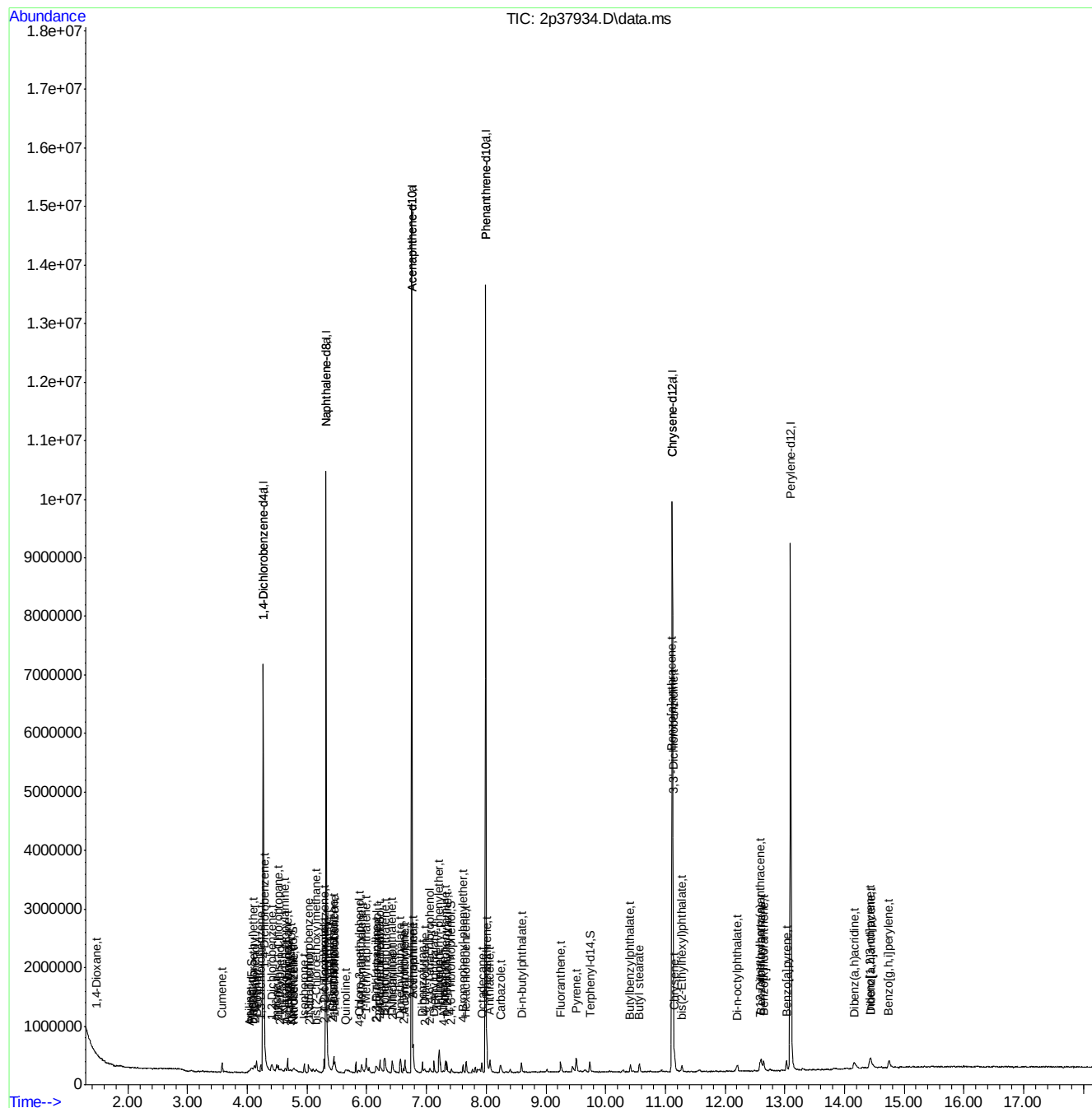
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94)	Benzo[b]fluoranthene	12.604	252	98639	0.81	ppb	94
95)	Benzo[k]fluoranthene	12.642	252	101009	0.98	ppb	92
96)	Benzo[a]pyrene	13.032	252	84122	0.77	ppb	93
97)	Indeno[1,2,3-cd]pyrene	14.423	276	105331	0.79	ppb	98
98)	Dibenz(a,h)acridine	14.161	279	71905	0.73	ppb	94
99)	Dibenz[a,h]anthracene	14.444	278	89834	0.87	ppb	92
100)	7,12-Dimethylbenz(a)an...	12.588	256	34253	0.62	ppb	92
101)	Benzo[g,h,i]perylene	14.744	276	88205	0.79	ppb	97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1583\
 Data File : 2p37934.D
 Acq On : 27 Jun 2014 11:36 am
 Operator : elwiraa
 Sample : ic1583-1
 Misc : op75638,e2p1583,
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 30 16:18:59 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Fri Jun 27 13:45:29 2014
 Response via : Initial Calibration



Manual Integration Approval Summary

Page 1 of 1

Sample Number: E2P1583-IC1583 **Method:** SW846 8270D
Lab FileID: 2P37934.D **Analyst approved:** 07/01/14 12:35 Elwira Antonik
Injection Time: 06/27/14 11:36 **Supervisor approved:** 07/02/14 17:06 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
Aniline	62-53-3		4.04	Poor instrument integration
2-Methylphenol	95-48-7		4.55	Poor instrument integration
Acetophenone	98-86-2		4.67	Poor instrument integration
3&4-Methylphenol			4.73	Poor instrument integration
4-Chloro-3-methyl phenol	59-50-7		5.87	Poor instrument integration
3,3'-Dichlorobenzidine	91-94-1		11.13	Poor instrument integration

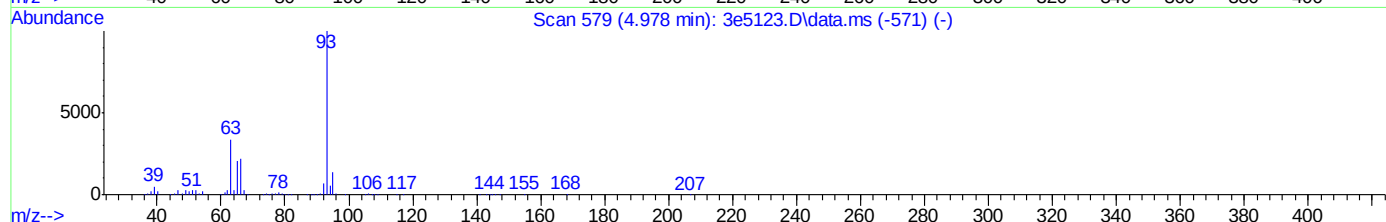
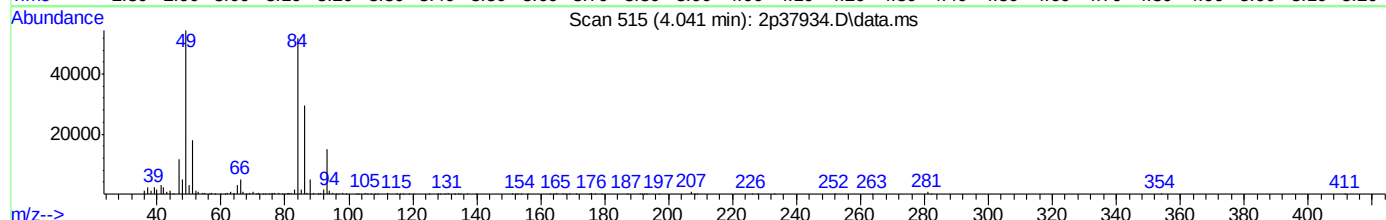
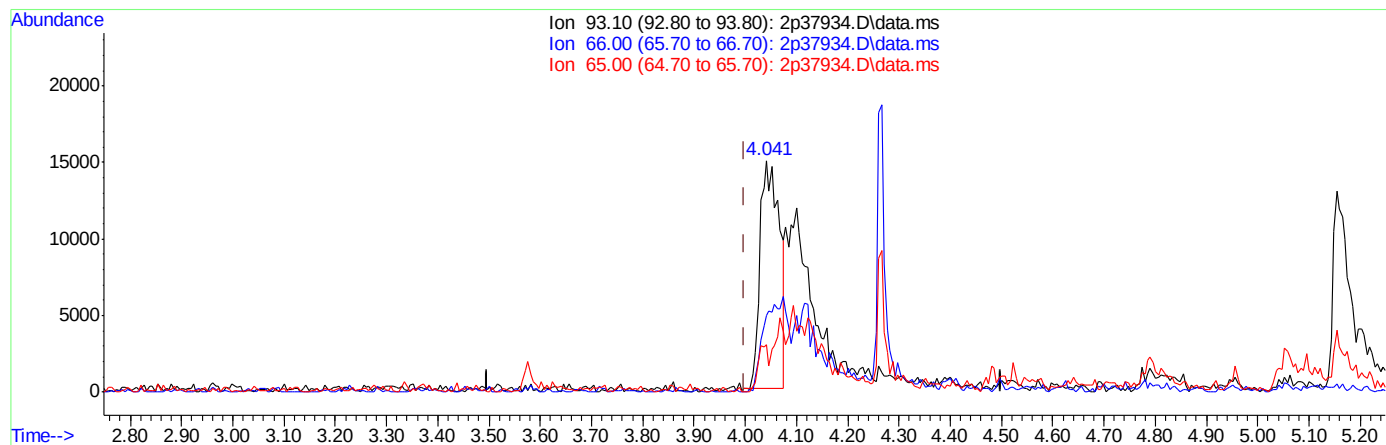
9.6.2.1

9

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1583\
Data File : 2p37934.D
Acq On : 27 Jun 2014 11:36 am
Operator : elwiraa
Sample : ic1583-1
Misc : op75638,e2p1583,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 27 13:45:39 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 27 13:45:29 2014
Response via : Initial Calibration



TIC: 2p37934.D\data.ms

(10) Aniline

4.041min (+0.043) 0.78ppb

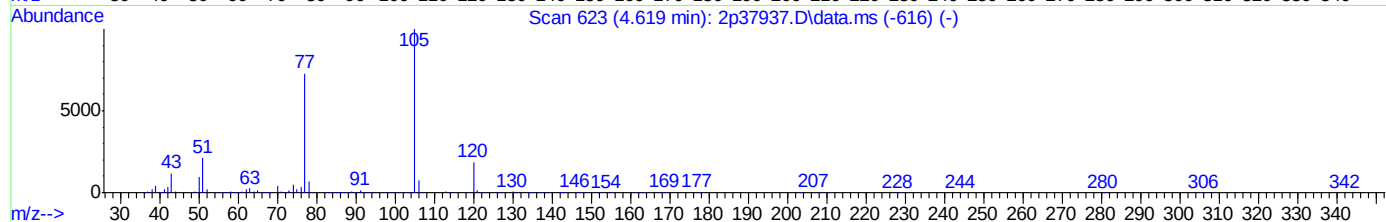
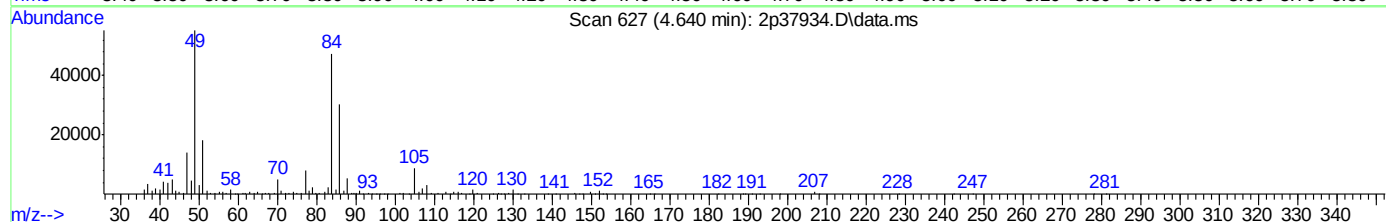
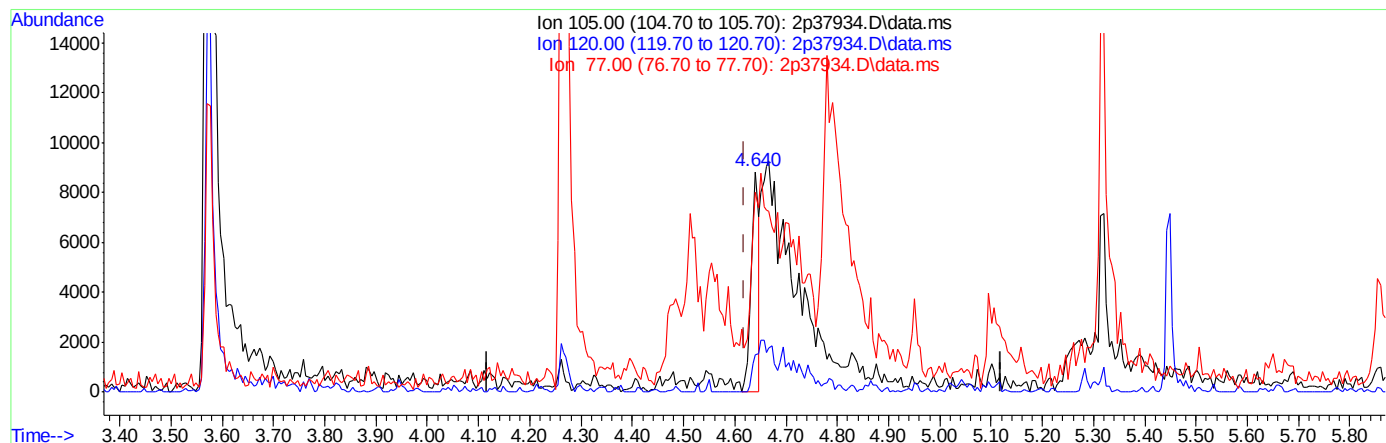
response 38710

Ion	Exp%	Act%
93.10	100	100
66.00	30.50	18.71
65.00	14.50	10.84
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1583\
Data File : 2p37934.D
Acq On : 27 Jun 2014 11:36 am
Operator : elwiraa
Sample : ic1583-1
Misc : op75638,e2p1583,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 27 13:45:39 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 27 13:45:29 2014
Response via : Initial Calibration



TIC: 2p37934.D\data.ms

(18) Acetophenone (t)

4.640min (+0.021) 0.16ppb

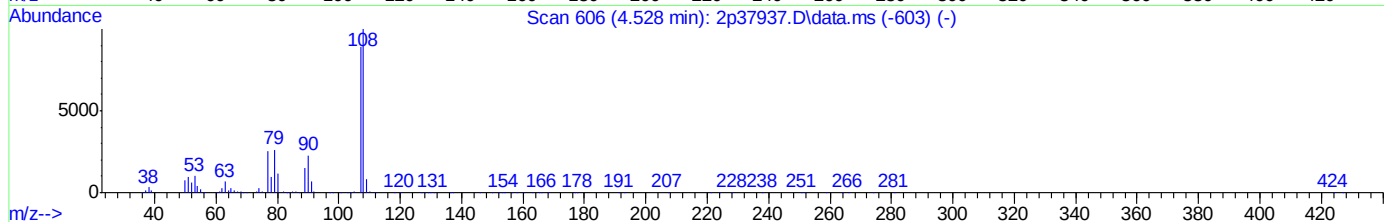
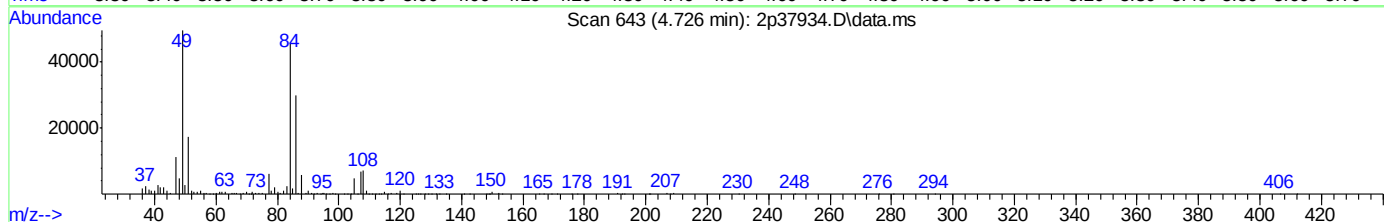
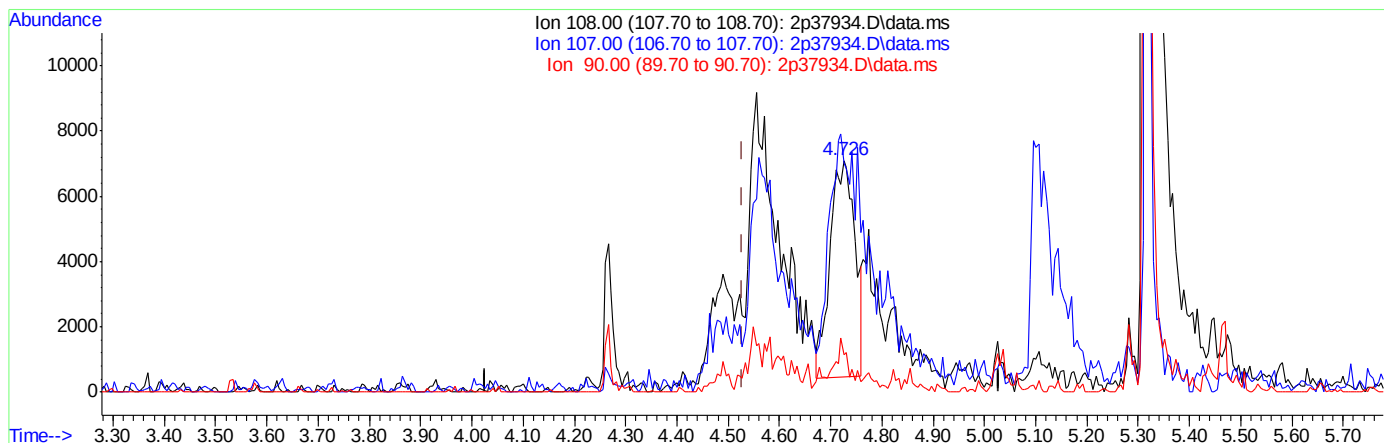
response 8730

Ion	Exp%	Act%
105.00	100	100
120.00	18.90	13.94
77.00	70.70	57.40
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1583\
Data File : 2p37934.D
Acq On : 27 Jun 2014 11:36 am
Operator : elwiraa
Sample : ic1583-1
Misc : op75638,e2p1583,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 27 13:45:39 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 27 13:45:29 2014
Response via : Initial Calibration



TIC: 2p37934.D\data.ms

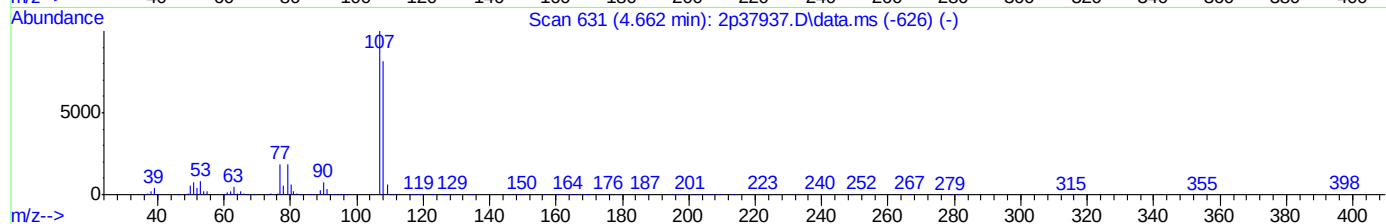
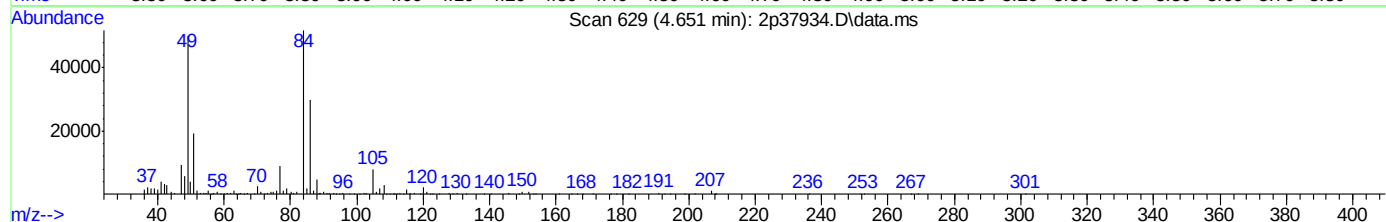
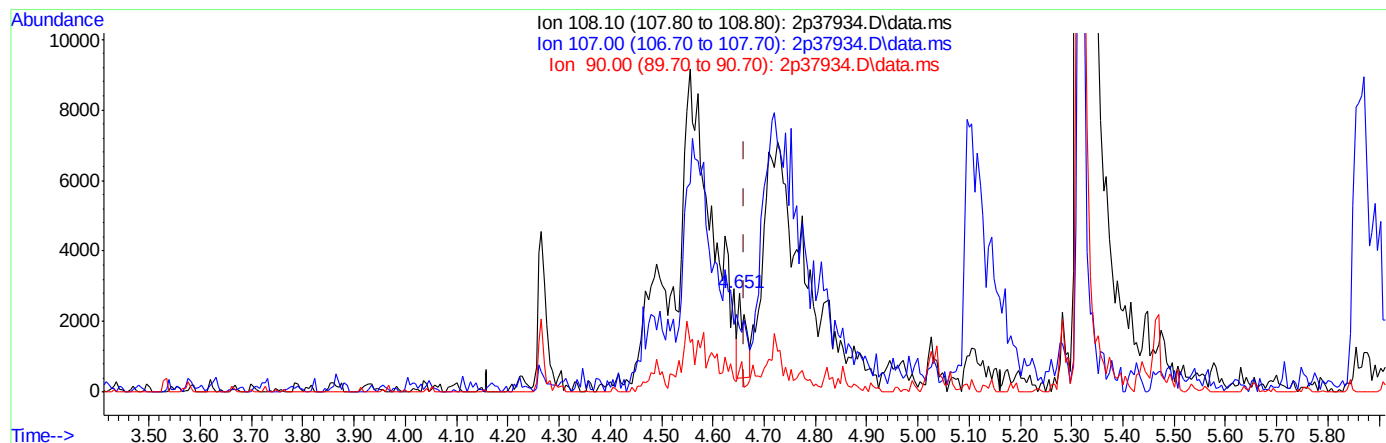
(19) 2-Methylphenol (t)
4.726min (+0.198) 0.65ppb
response 22120

Ion	Exp%	Act%
108.00	100	100
107.00	88.70	86.95
90.00	22.70	18.31
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1583\
Data File : 2p37934.D
Acq On : 27 Jun 2014 11:36 am
Operator : elwiraa
Sample : ic1583-1
Misc : op75638,e2p1583,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 27 13:45:39 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 27 13:45:29 2014
Response via : Initial Calibration



TIC: 2p37934.D\data.ms

(21) 3&4-Methylphenol (t)

4.651min (-0.011) 0.06ppb

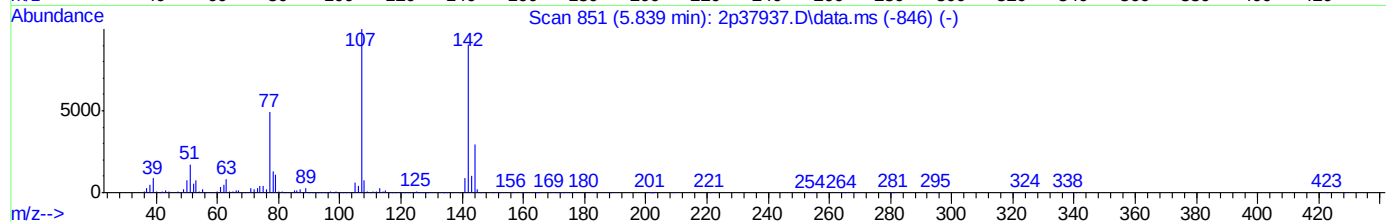
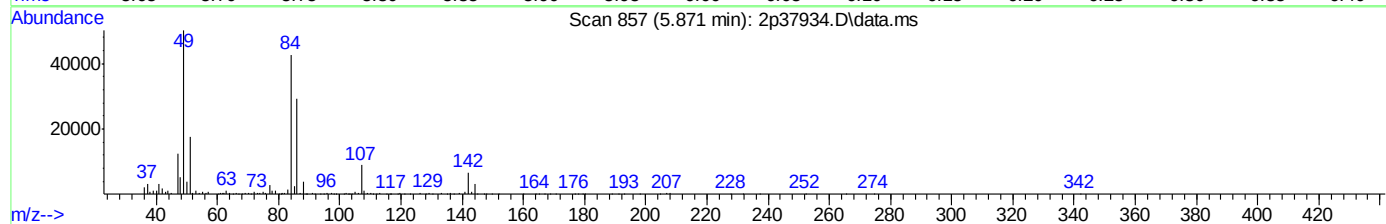
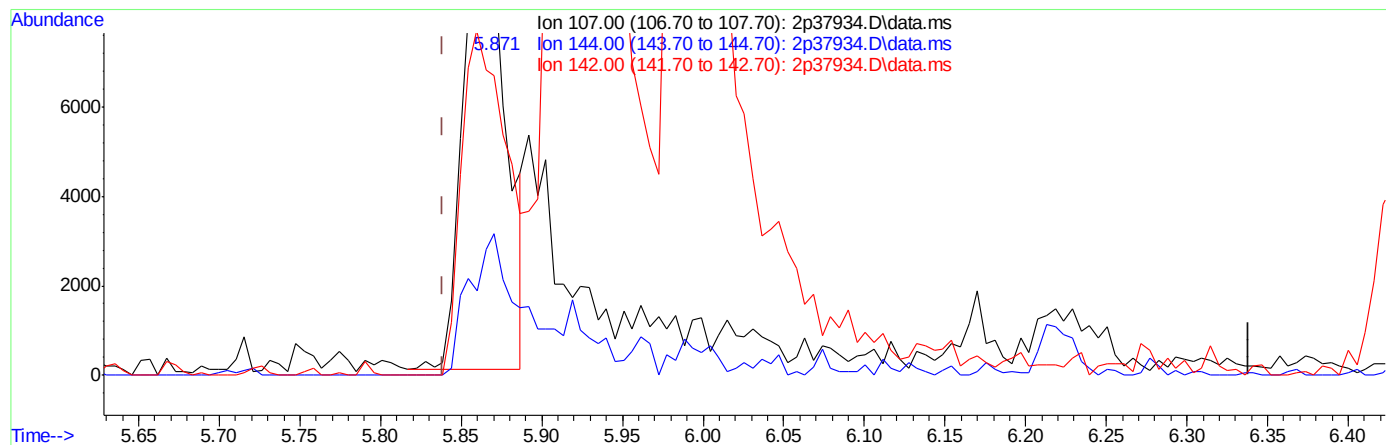
response 2444

Ion	Exp%	Act%
108.10	100	100
107.00	123.00	6.66#
90.00	9.60	19.92
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1583\
Data File : 2p37934.D
Acq On : 27 Jun 2014 11:36 am
Operator : elwiraa
Sample : ic1583-1
Misc : op75638,e2p1583,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 27 13:45:39 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 27 13:45:29 2014
Response via : Initial Calibration



TIC: 2p37934.D\data.ms

(43) 4-Chloro-3-methylphenol (t)

5.871min (+0.032) 0.50ppb

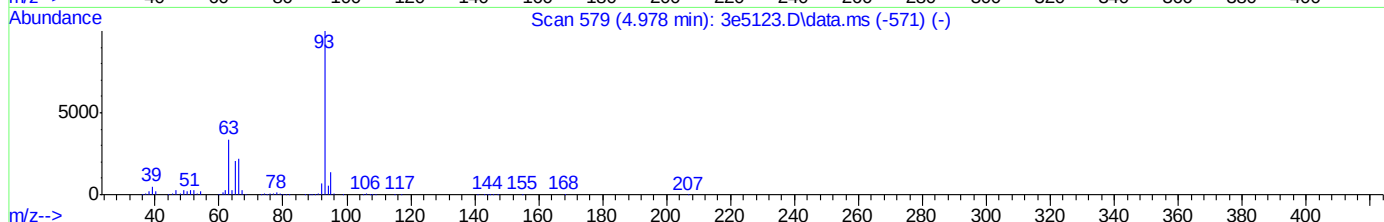
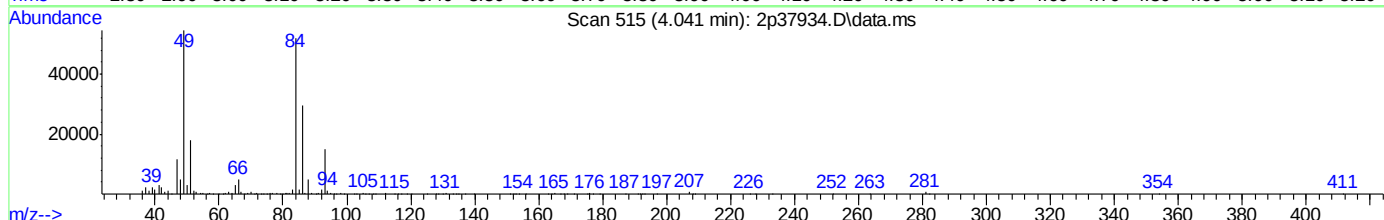
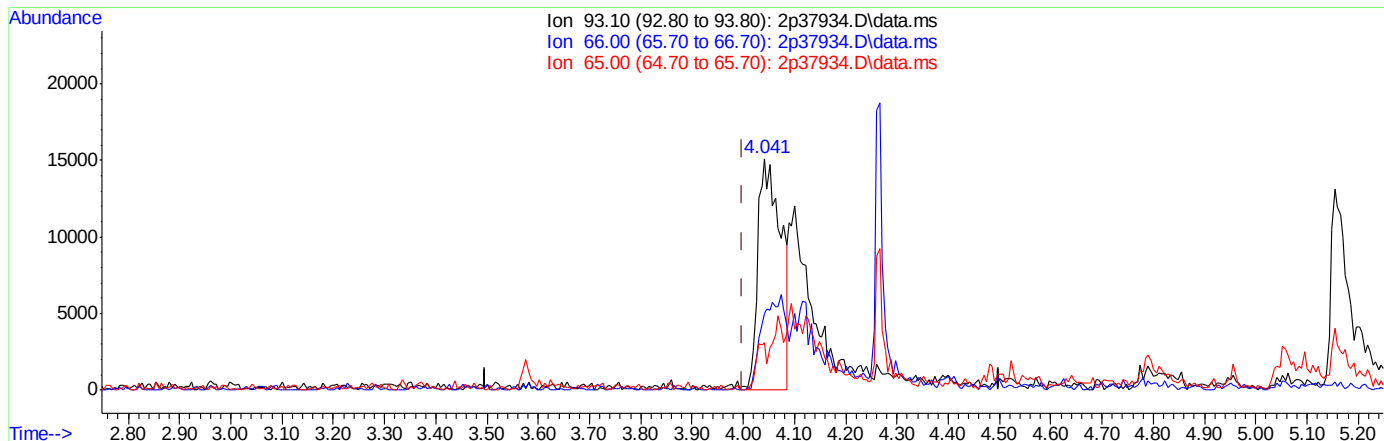
response 17441

Ion	Exp%	Act%
107.00	100	100
144.00	29.70	35.77
142.00	90.20	74.43
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1583\
Data File : 2p37934.D
Acq On : 27 Jun 2014 11:36 am
Operator : elwiraa
Sample : ic1583-1
Misc : op75638,e2p1583,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 27 13:49:07 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 27 13:45:29 2014
Response via : Initial Calibration



TIC: 2p37934.D\data.ms

(10) Aniline

4.041min (+0.043) 0.93ppb m

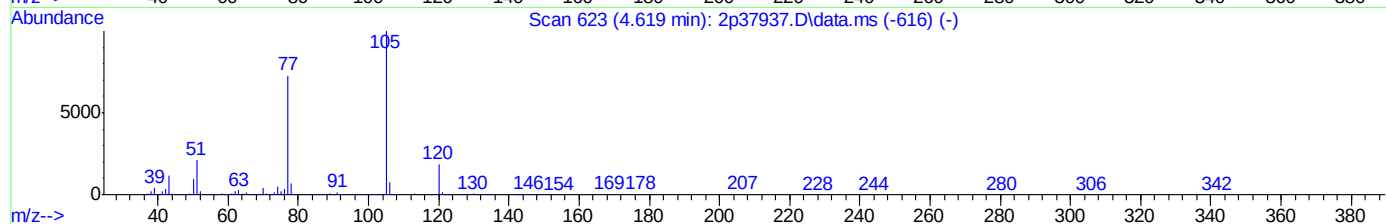
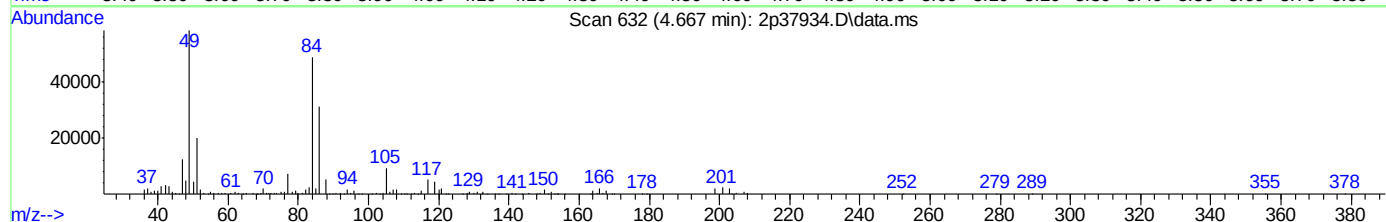
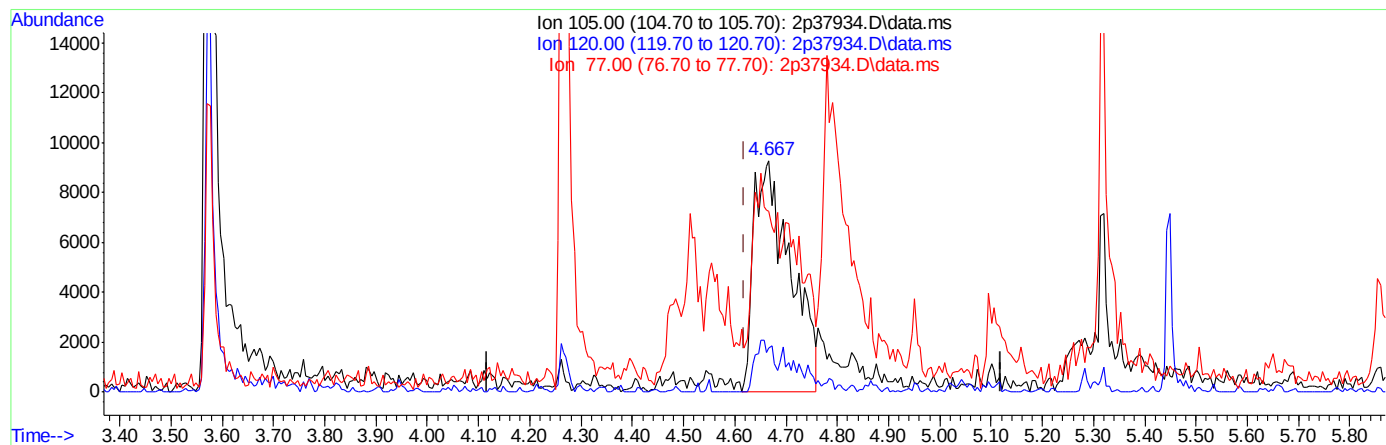
response 46160

Ion	Exp%	Act%
93.10	100	100
66.00	30.50	33.14
65.00	14.50	20.26
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1583\
Data File : 2p37934.D
Acq On : 27 Jun 2014 11:36 am
Operator : elwiraa
Sample : ic1583-1
Misc : op75638,e2p1583,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 27 13:49:07 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 27 13:45:29 2014
Response via : Initial Calibration



TIC: 2p37934.D\data.ms

(18) Acetophenone (t)

4.667min (+0.048) 0.84ppb m

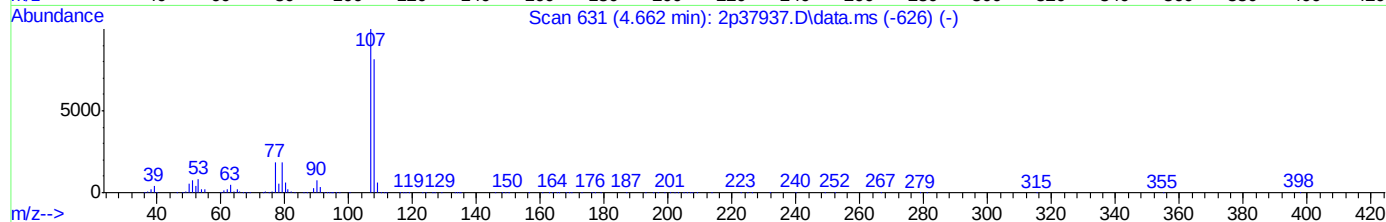
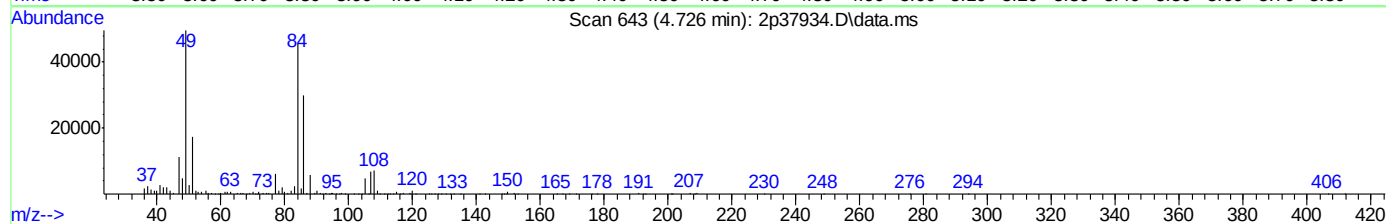
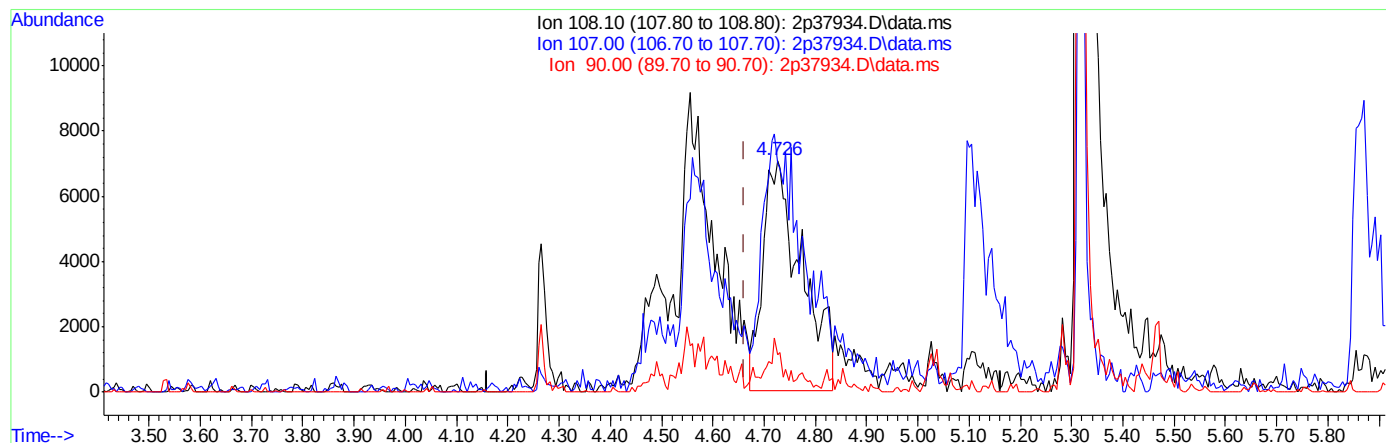
response 45944

Ion	Exp%	Act%
105.00	100	100
120.00	18.90	19.07
77.00	70.70	78.13
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1583\
Data File : 2p37934.D
Acq On : 27 Jun 2014 11:36 am
Operator : elwiraa
Sample : ic1583-1
Misc : op75638,e2p1583,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 27 13:49:07 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 27 13:45:29 2014
Response via : Initial Calibration



TIC: 2p37934.D\data.ms

(21) 3&4-Methylphenol (t)

4.726min (+0.064) 0.97ppb m

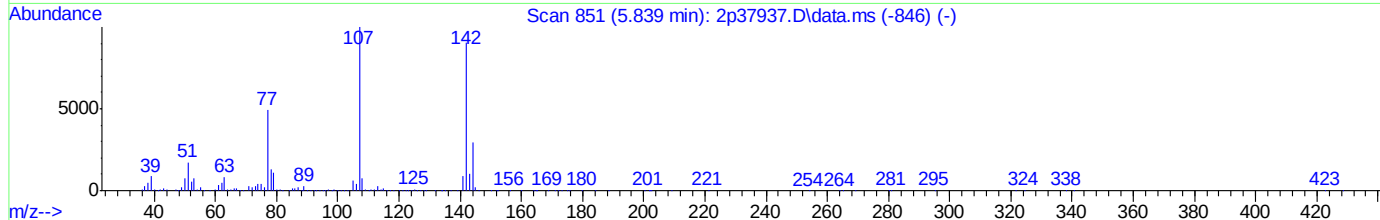
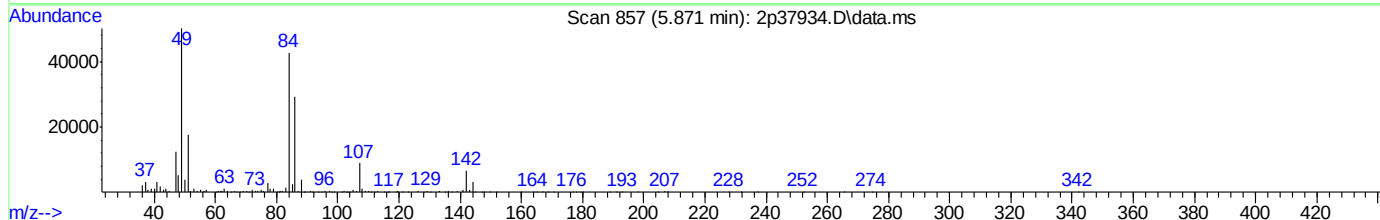
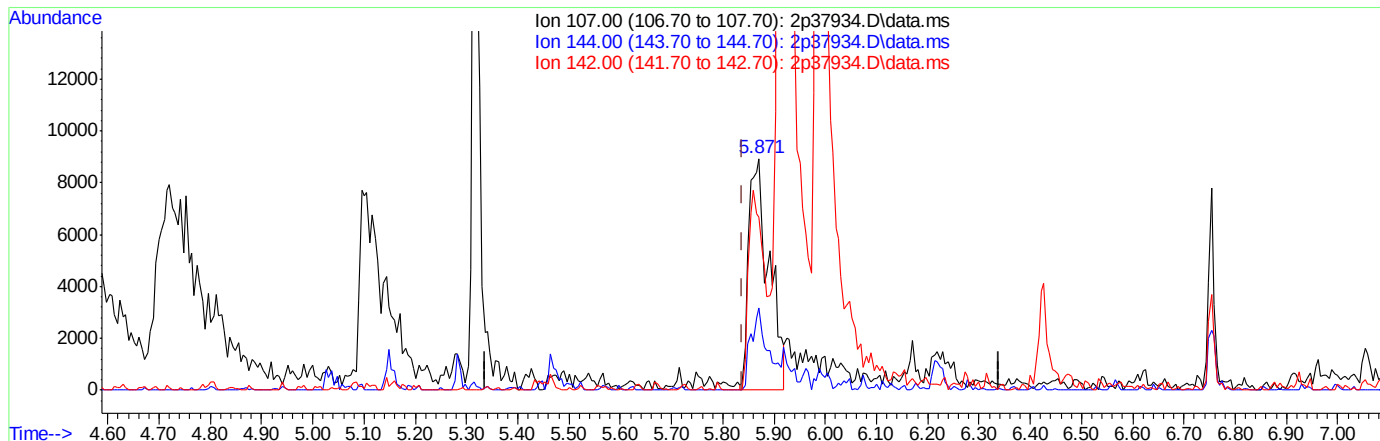
response 36914

Ion	Exp%	Act%
108.10	100	100
107.00	123.00	98.69
90.00	9.60	16.34
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1583\
Data File : 2p37934.D
Acq On : 27 Jun 2014 11:36 am
Operator : elwiraa
Sample : ic1583-1
Misc : op75638,e2p1583,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 27 13:49:07 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 27 13:45:29 2014
Response via : Initial Calibration



TIC: 2p37934.D\data.ms

(43) 4-Chloro-3-methylphenol (t)

5.871min (+0.032) 0.70ppb m

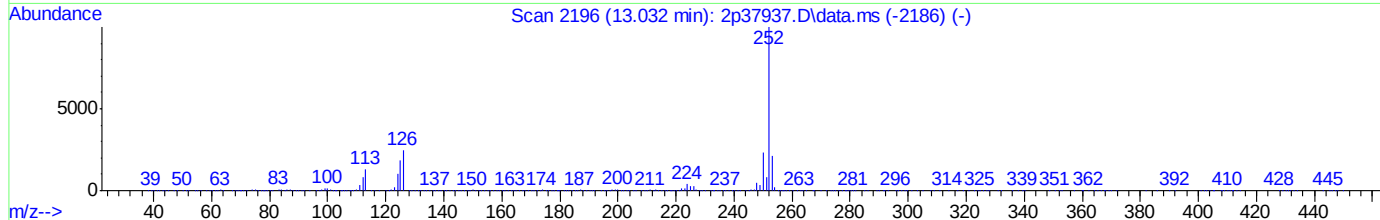
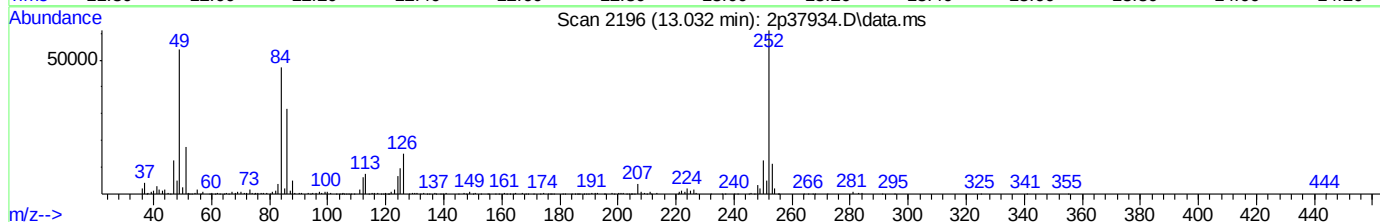
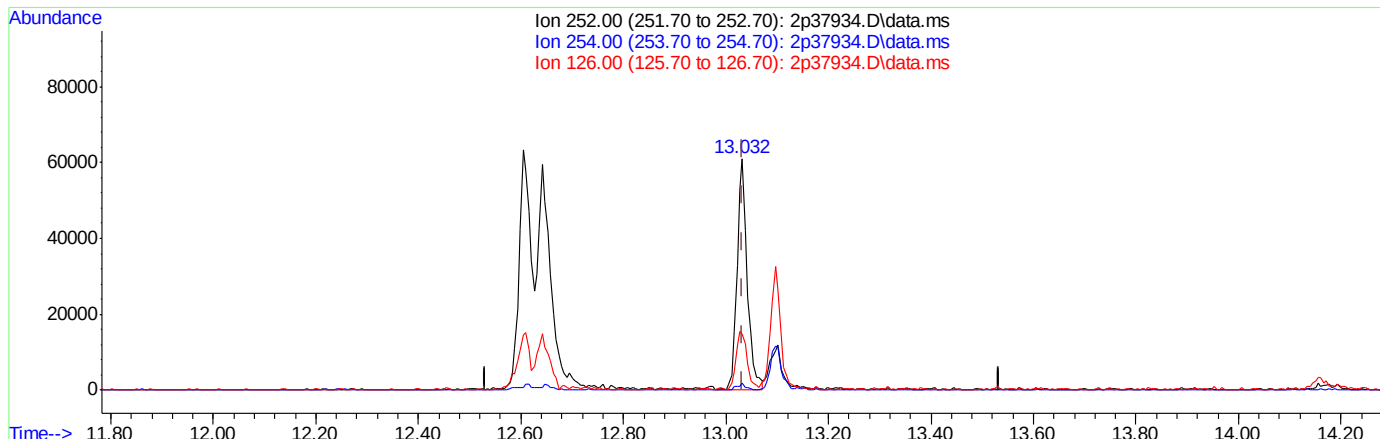
response 24238

Ion	Exp%	Act%
107.00	100	100
144.00	29.70	35.49
142.00	90.20	74.83
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1583\
Data File : 2p37934.D
Acq On : 27 Jun 2014 11:36 am
Operator : elwiraa
Sample : ic1583-1
Misc : op75638,e2p1583,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 30 09:40:13 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 27 13:45:29 2014
Response via : Initial Calibration



TIC: 2p37934.D\data.ms

(89) 3,3'-Dichlorobenzidine (t)

13.032min (-0.000) 0.72ppb

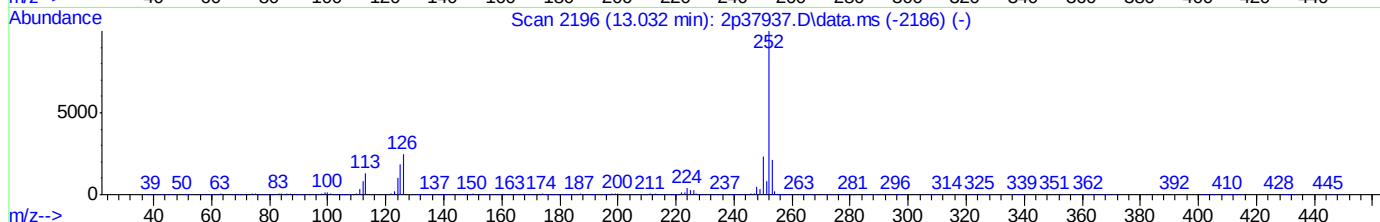
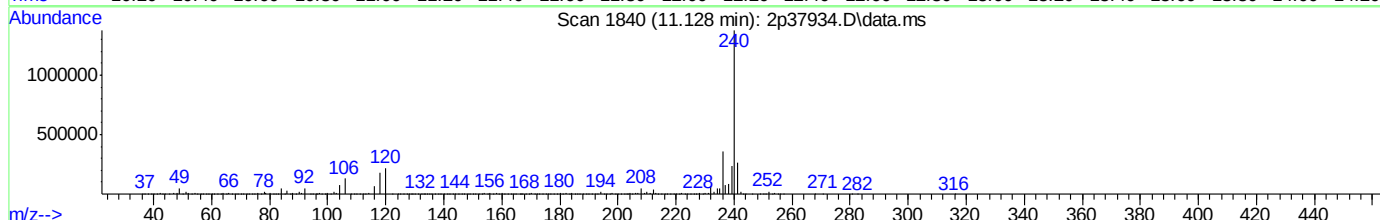
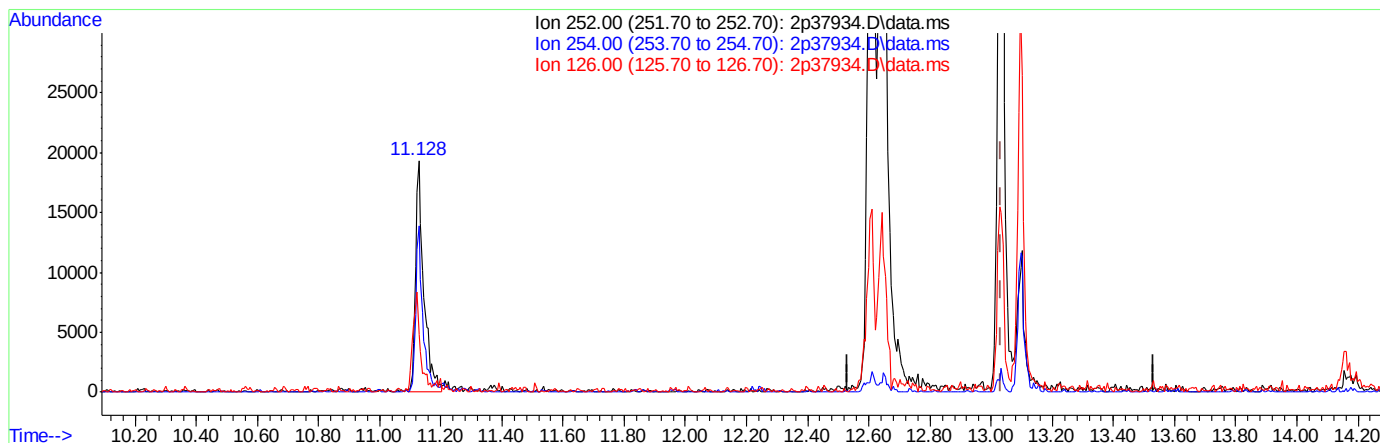
response 84098

Ion	Exp%	Act%
252.00	100	100
254.00	2.30	2.97
126.00	24.70	23.12
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1583\
Data File : 2p37934.D
Acq On : 27 Jun 2014 11:36 am
Operator : elwiraa
Sample : ic1583-1
Misc : op75638,e2p1583,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 30 09:40:13 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 27 13:45:29 2014
Response via : Initial Calibration



TIC: 2p37934.D\data.ms

(89) 3,3'-Dichlorobenzidine (t)

11.128min (-1.904) 0.30ppb m

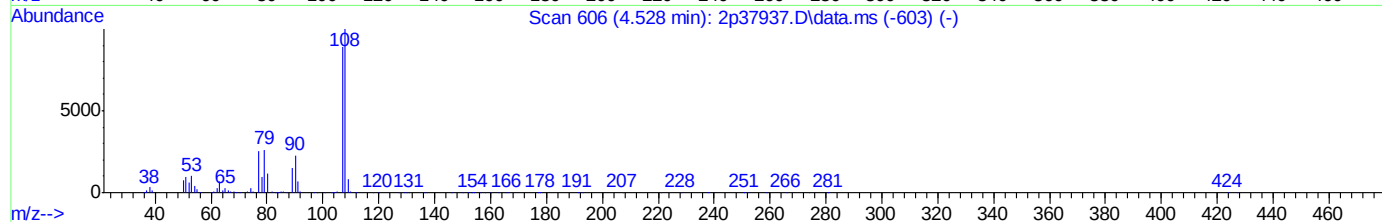
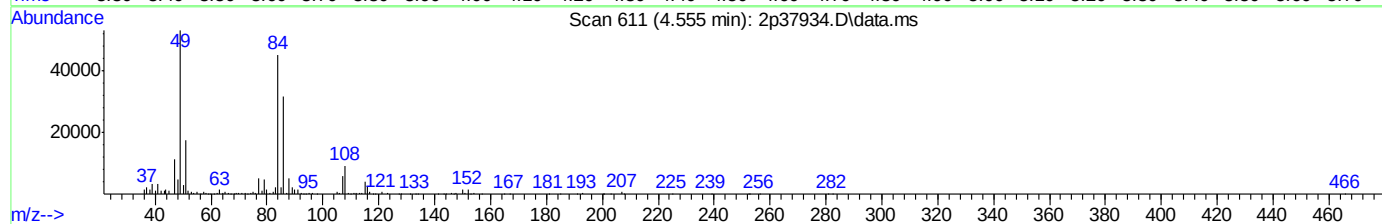
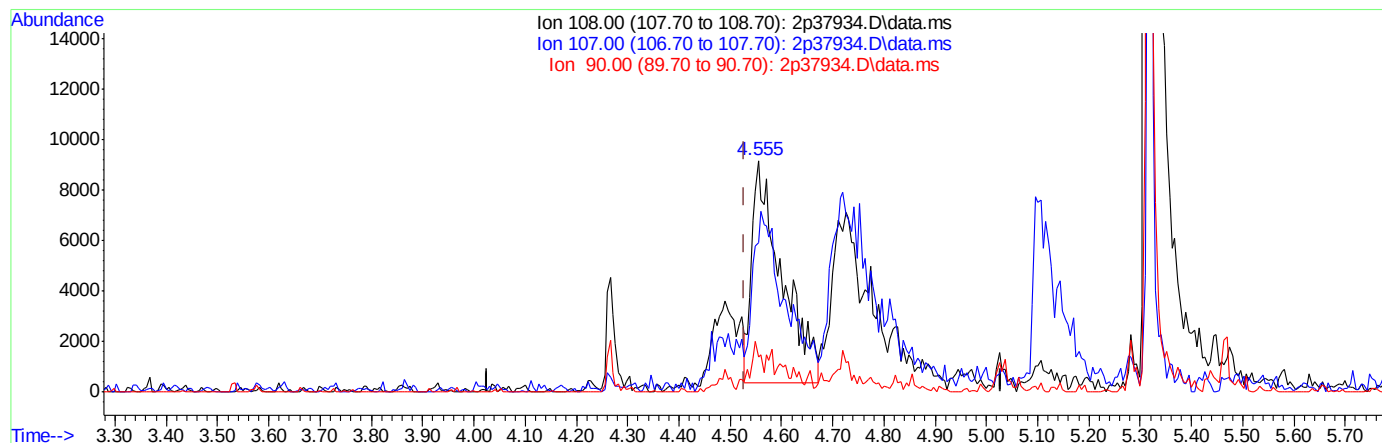
response 35799

Ion	Exp%	Act%
252.00	100	100
254.00	2.30	71.56#
126.00	24.70	24.72
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1583\
Data File : 2p37934.D
Acq On : 27 Jun 2014 11:36 am
Operator : elwiraa
Sample : ic1583-1
Misc : op75638,e2p1583,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 30 16:15:00 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 27 13:45:29 2014
Response via : Initial Calibration



TIC: 2p37934.D\data.ms

(19) 2-Methylphenol (t)

4.555min (+0.027) 1.03ppb m

response 35319

Ion	Exp%	Act%
108.00	100	100
107.00	88.70	64.74
90.00	22.70	15.39
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1583\
 Data File : 2p37935.D
 Acq On : 27 Jun 2014 12:15 pm
 Operator : elwiraa
 Sample : ic1583-2
 Misc : op75638,e2p1583,
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 02 14:13:14 2014
 Quant Method : C:\msdchem\1\METHODS\M2P1583.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Wed Jul 02 14:11:11 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.266	152	1252350	40.00	ppb	0.00
24) Naphthalene-d8	5.314	136	4567046	40.00	ppb	0.00
47) Acenaphthene-d10	6.753	164	2472209	40.00	ppb	0.00
69) Phenanthrene-d10	7.989	188	4207380	40.00	ppb	0.00
83) Chrysene-d12	11.118	240	4201122	40.00	ppb	0.00
92) Perylene-d12	13.102	264	3928920	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	4.266	152	1252350	40.00	ppb	0.00
104) Acenaphthene-d10a	6.753	164	2472209	40.00	ppb	0.00
107) Chrysene-d12a	11.118	240	4201122	40.00	ppb	0.00
110) Phenanthrene-d10a	7.989	188	4207380	40.00	ppb	0.00
112) Naphthalene-d8a	5.314	136	4567046	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	4.047	99	65876	1.57	ppb	0.02
Spiked Amount	50.000	Range	10 - 59	Recovery	=	3.14%#
25) Nitrobenzene-d5	4.753	82	73361	1.95	ppb	0.01
Spiked Amount	50.000	Range	19 - 61	Recovery	=	3.90%#
51) 2-Fluorobiphenyl	6.213	172	161378	2.15	ppb	0.00
Spiked Amount	50.000	Range	21 - 58	Recovery	=	4.30%#
73) 2,4,6-Tribromophenol	7.411	330	21471	1.80	ppb	0.00
Spiked Amount	50.000	Range	12 - 68	Recovery	=	3.60%#
85) Terphenyl-d14	9.738	244	159016	1.89	ppb	0.00
Spiked Amount	50.000	Range	16 - 65	Recovery	=	3.78%#
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	1.463	88	29417	1.73	ppb	92
3) Pyridine	1.816	79	59692	1.47	ppb	85
4) N-Nitrosodimethylamine	1.795	74	20945	2.17	ppb	70
6) Indene	4.480	116	129086	2.03	ppb	97
7) Cumene	3.571	105	170615	1.89	ppb	98
9) Phenol	4.058	94	95616	1.98	ppb	91
10) Aniline	4.031	93	88106	1.78	ppb	75
11) bis(2-Chloroethyl)ether	4.084	93	69209	2.07	ppb	86
12) 2-Chlorophenol	4.116	128	75866	1.85	ppb	98
13) Decane	4.154	57	61087	1.97	ppb	93
14) 1,3-Dichlorobenzene	4.223	146	92771	1.97	ppb	94
15) 1,4-Dichlorobenzene	4.282	146	101457	2.10	ppb	94
16) Benzyl alcohol	4.459	108	33368m	1.52	ppb	
17) 1,2-Dichlorobenzene	4.411	146	89319	2.02	ppb	93
18) Acetophenone	4.635	105	99986	1.90	ppb	# 71
19) 2-Methylphenol	4.544	108	73407m	2.10	ppb	
20) 2,2'-oxybis(1-Chloropr...	4.517	121	17916	1.99	ppb	# 88
21) 3&4-Methylphenol	4.705	108	75913m	2.04	ppb	
22) n-Nitroso-di-n-propyla...	4.624	70	38238	1.65	ppb	91
23) Hexachloroethane	4.678	201	38460	2.16	ppb	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1583\
 Data File : 2p37935.D
 Acq On : 27 Jun 2014 12:15 pm
 Operator : elwiraa
 Sample : ic1583-2
 Misc : op75638,e2p1583,
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 02 14:13:14 2014
 Quant Method : C:\msdchem\1\METHODS\M2P1583.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Wed Jul 02 14:11:11 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Nitrobenzene	4.774	77	81571	2.07	ppb	98
27) Quinoline	5.641	129	153822	1.92	ppb	95
28) Isophorone	4.951	82	124612	1.95	ppb	96
29) 2-Nitrophenol	5.036	139	38297	1.80	ppb	89
30) 2,4-Dimethylphenol	5.095	107	54627	1.71	ppb	95
32) bis(2-Chloroethoxy)met...	5.149	93	73763	1.91	ppb	98
33) 2,4-Dichlorophenol	5.266	162	58587	1.84	ppb	91
34) 2,6-Dichlorophenol	5.416	162	61278	1.94	ppb	98
35) 1,3,5-Trichlorobenzene	5.026	180	81824	2.02	ppb	90
36) 1,2,4-Trichlorobenzene	5.282	180	79511	2.07	ppb	99
37) 1,2,3-Trichlorobenzene	5.464	180	77318	2.07	ppb	99
38) Naphthalene	5.336	128	224099	2.13	ppb	99
39) 4-Chloroaniline	5.421	127	91907	1.93	ppb	97
40) 2,3-Dichloroaniline	6.149	161	86097	2.02	ppb	96
41) Caprolactam	5.683	113	15242	1.51	ppb	# 80
42) Hexachlorobutadiene	5.448	225	44396	2.03	ppb	97
43) 4-Chloro-3-methylphenol	5.849	107	54469	1.75	ppb	82
44) 2-Methylnaphthalene	5.908	141	128386	1.93	ppb	99
45) 1-Methylnaphthalene	5.988	141	151052	2.18	ppb	96
46) Dimethylnaphthalene	6.422	156	131482	2.03	ppb	98
48) Hexachlorocyclopentadiene	6.037	237	24620	6.10	ppb	90
49) 2,4,6-Trichlorophenol	6.170	196	38298	1.78	ppb	98
50) 2,4,5-Trichlorophenol	6.218	196	52260	2.05	ppb	96
52) 2-Chloronaphthalene	6.304	162	149608	2.19	ppb	98
53) Biphenyl	6.293	154	183643	2.14	ppb	98
54) 2-Nitroaniline	6.422	65	35434	1.88	ppb	# 73
55) Dimethylphthalate	6.555	163	151946	1.97	ppb	97
56) Acenaphthylene	6.636	152	225670	2.09	ppb	99
57) 2,6-Dinitrotoluene	6.609	165	29842	1.74	ppb	91
58) 3-Nitroaniline	6.764	138	34785	1.74	ppb	91
59) Acenaphthene	6.780	153	142363	2.07	ppb	95
61) 4-Nitrophenol	6.999	109	8504	1.12	ppb	# 70
62) Dibenzofuran	6.930	168	200963	2.13	ppb	100
63) 2,4-Dinitrotoluene	6.962	165	43317	1.91	ppb	78
64) 2,3,4,6-Tetrachlorophenol	7.053	232	36622	1.84	ppb	88
65) Diethylphthalate	7.128	149	149130	1.93	ppb	99
66) Fluorene	7.202	166	153107	2.06	ppb	99
67) 4-Chlorophenyl-phenyle...	7.208	204	72979	2.10	ppb	99
68) 4-Nitroaniline	7.267	138	33650	1.73	ppb	94
70) 4,6-Dinitro-2-methylph...	7.304	198	8508	0.73	ppb	# 62
71) n-Nitrosodiphenylamine	7.315	169	103175	2.06	ppb	98
72) 1,2-Diphenylhydrazine	7.336	77	149637	2.12	ppb	96
74) 4-Bromophenyl-phenylether	7.609	248	45644	2.06	ppb	95
75) Hexachlorobenzene	7.668	284	56563	2.04	ppb	99
76) Pentachlorophenol	7.855	266	33408	2.53	ppb	95
77) Phenanthrene	8.010	178	219083	2.15	ppb	97
78) Anthracene	8.064	178	220935	2.12	ppb	97
79) Carbazole	8.235	167	205393	1.97	ppb	97
80) Di-n-butylphthalate	8.593	149	230841	1.87	ppb	100
81) Fluoranthene	9.246	202	236396	1.97	ppb	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1583\
 Data File : 2p37935.D
 Acq On : 27 Jun 2014 12:15 pm
 Operator : elwiraa
 Sample : ic1583-2
 Misc : op75638,e2p1583,
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 02 14:13:14 2014
 Quant Method : C:\msdchem\1\METHODS\M2P1583.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Wed Jul 02 14:11:11 2014
 Response via : Initial Calibration

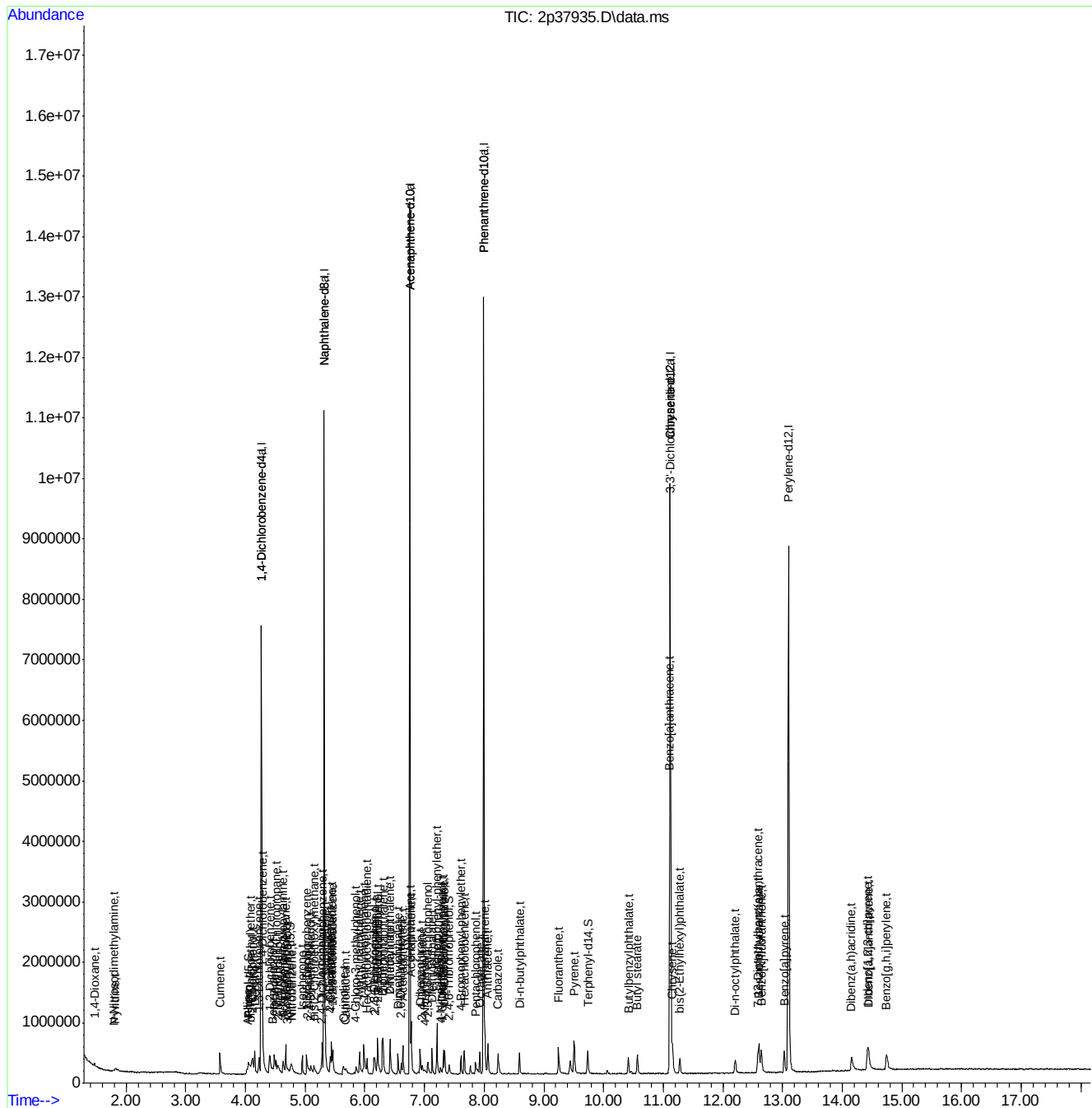
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
82) Octadecane	7.930	43	47620	1.95	ppb	97
84) Pyrene	9.508	202	256114	2.00	ppb	96
86) Butylbenzylphthalate	10.417	149	99507	1.73	ppb	99
87) Butyl stearate	10.567	56	60403	1.76	ppb	96
88) Benzo[a]anthracene	11.107	228	234429	1.98	ppb	99
89) 3,3'-Dichlorobenzidine	11.123	252	76523	1.78	ppb #	80
90) Chrysene	11.155	228	209682	2.01	ppb	97
91) bis(2-Ethylhexyl)phtha...	11.278	149	125655	1.65	ppb	96
93) Di-n-octylphthalate	12.209	149	197904	1.57	ppb	99
94) Benzo[b]fluoranthene	12.605	252	219494	1.91	ppb	96
95) Benzo[k]fluoranthene	12.642	252	216853	2.02	ppb	96
96) Benzo[a]pyrene	13.033	252	181592	1.81	ppb	96
97) Indeno[1,2,3-cd]pyrene	14.423	276	233215	1.88	ppb	95
98) Dibenz(a,h)acridine	14.156	279	158266	1.80	ppb	90
99) Dibenz[a,h]anthracene	14.450	278	181479	1.86	ppb	96
100) 7,12-Dimethylbenz(a)an...	12.589	256	83717	1.74	ppb	98
101) Benzo[g,h,i]perylene	14.744	276	187004	1.82	ppb	93

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

(QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1583\
Data File : 2p37935.D
Acq On : 27 Jun 2014 12:15 pm
Operator : elwiraa
Sample : ic1583-2
Misc : op75638,e2p1583,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 02 14:13:14 2014
Quant Method : C:\msdchem\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 02 14:11:11 2014
Response via : Initial Calibration



Page: 4

Manual Integration Approval Summary

Page 1 of 1

Sample Number: E2P1583-IC1583 **Method:** SW846 8270D
Lab FileID: 2P37935.D **Analyst approved:** 07/01/14 12:35 Elwira Antonik
Injection Time: 06/27/14 12:15 **Supervisor approved:** 07/02/14 17:06 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
1,4-Dioxane	123-91-1		1.46	Poor instrument integration
n-Nitrosodimethylamine	62-75-9		1.80	Poor instrument integration
bis(2-Chloroethyl)ether	111-44-4		4.08	Poor instrument integration
Benzyl Alcohol	100-51-6		4.46	Poor instrument integration
2-Methylphenol	95-48-7		4.54	Poor instrument integration
3&4-Methylphenol			4.70	Poor instrument integration
3,3'-Dichlorobenzidine	91-94-1		11.12	Poor instrument integration

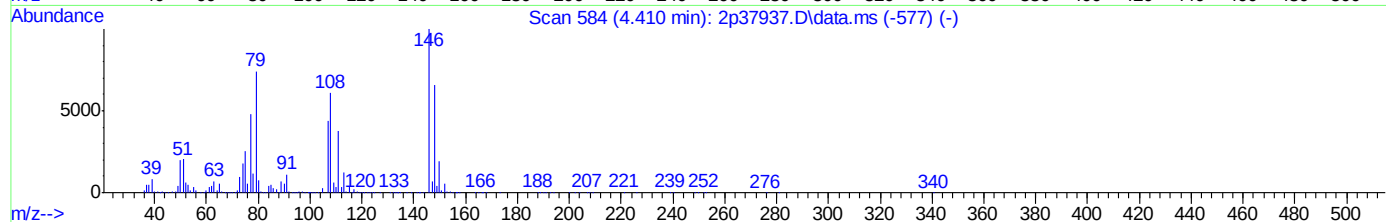
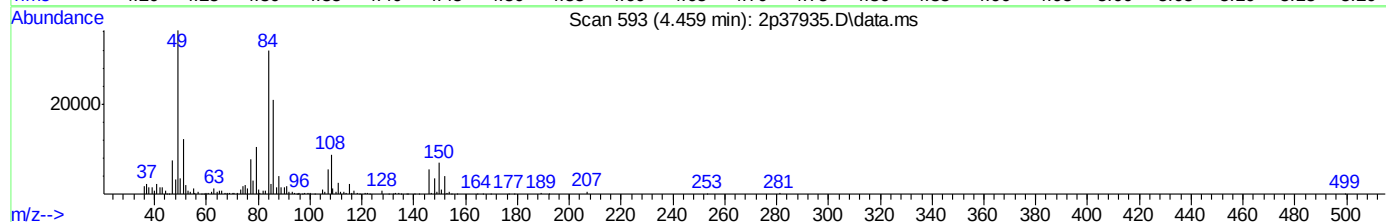
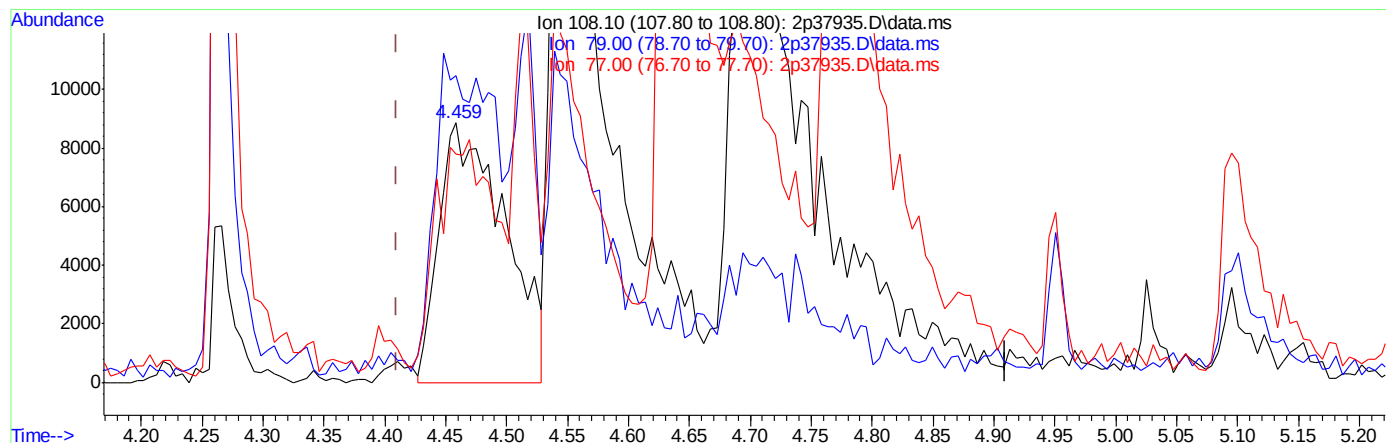
9.6.3.1

9

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1583\
Data File : 2p37935.D
Acq On : 27 Jun 2014 12:15 pm
Operator : elwiraa
Sample : ic1583-2
Misc : op75638,e2p1583,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 02 14:11:24 2014
Quant Method : C:\msdchem\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 02 14:11:11 2014
Response via : Initial Calibration



TIC: 2p37935.D\data.ms

(16) Benzyl alcohol (t)

4.459min (+0.049) 1.52ppb m

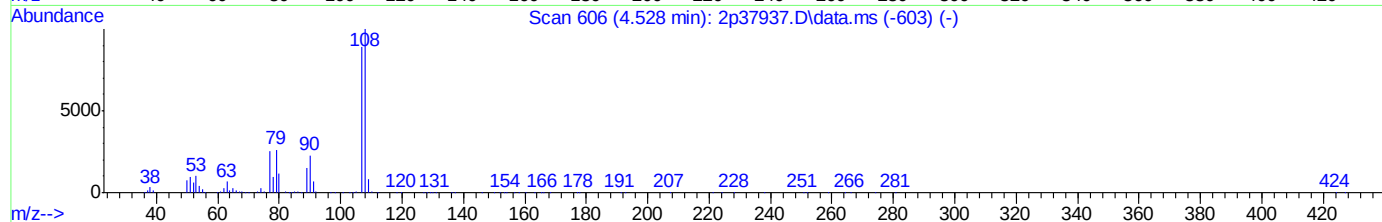
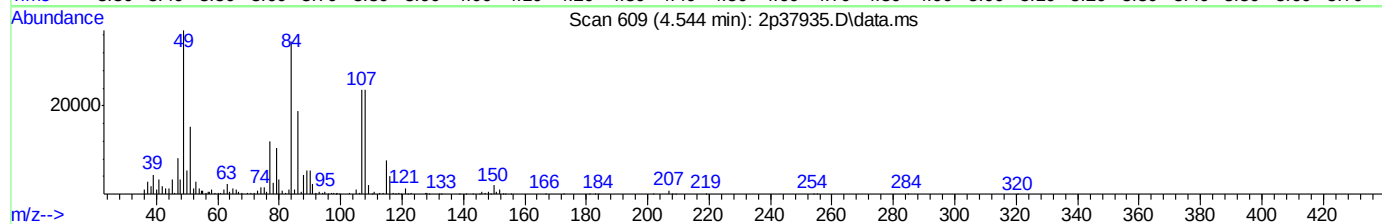
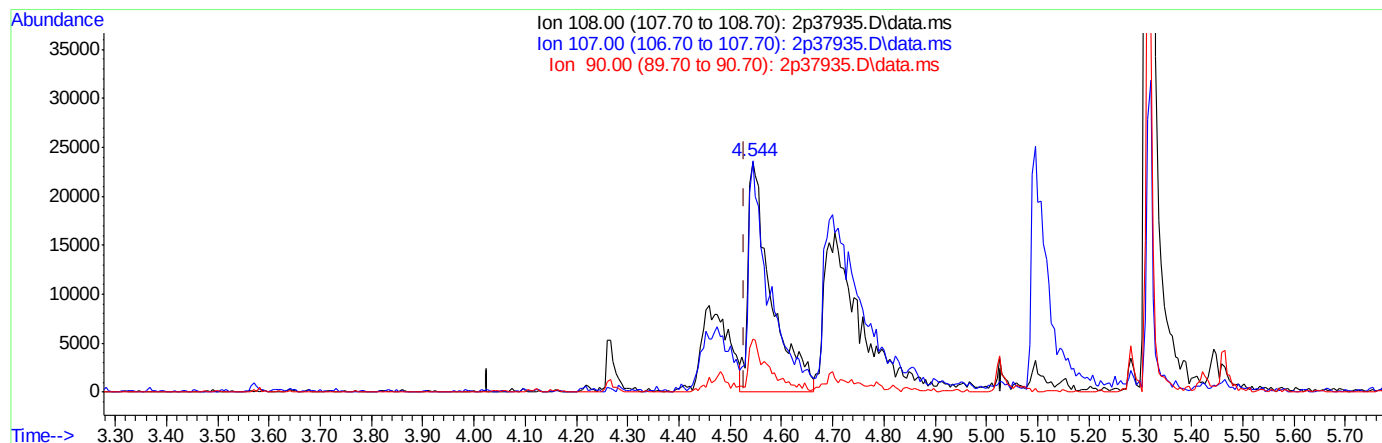
response 33368

Ion	Exp%	Act%
108.10	100	100
79.00	111.20	118.07
77.00	66.30	87.88
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1583\
Data File : 2p37935.D
Acq On : 27 Jun 2014 12:15 pm
Operator : elwiraa
Sample : ic1583-2
Misc : op75638,e2p1583,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 02 14:11:24 2014
Quant Method : C:\msdchem\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 02 14:11:11 2014
Response via : Initial Calibration



TIC: 2p37935.D\data.ms

(19) 2-Methylphenol (t)

4.544min (+0.016) 2.10ppb m

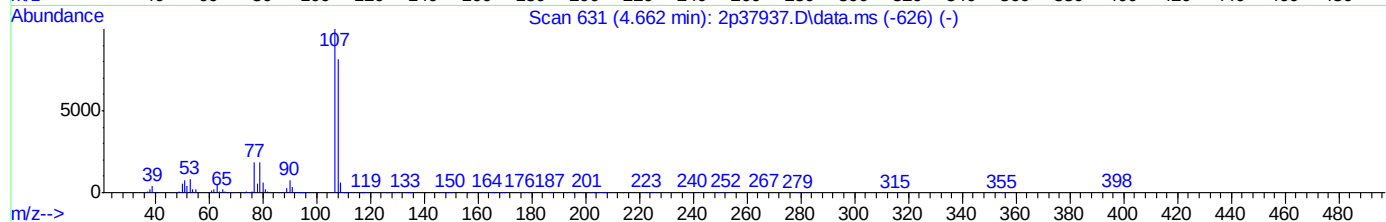
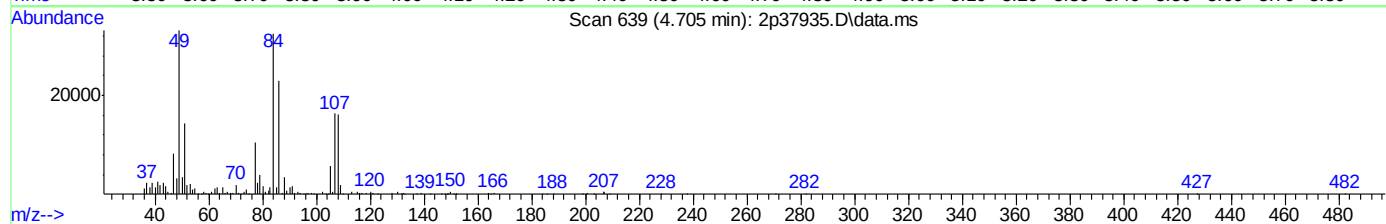
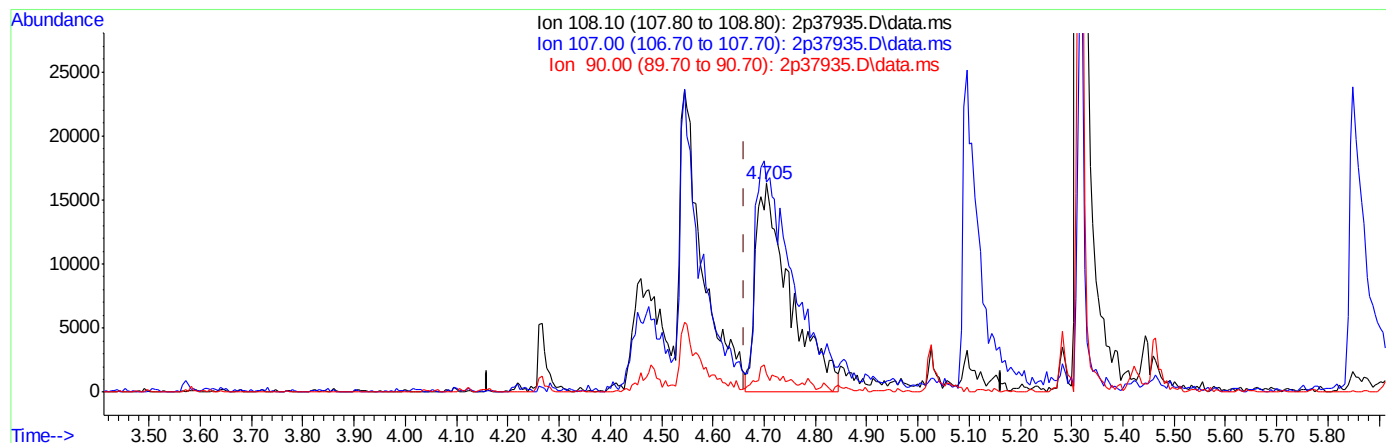
response 73407

Ion	Exp%	Act%
108.00	100	100
107.00	88.70	100.44
90.00	22.70	23.19
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1583\
Data File : 2p37935.D
Acq On : 27 Jun 2014 12:15 pm
Operator : elwiraa
Sample : ic1583-2
Misc : op75638,e2p1583,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 02 14:11:24 2014
Quant Method : C:\msdchem\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 02 14:11:11 2014
Response via : Initial Calibration



TIC: 2p37935.D\data.ms

(21) 3&4-Methylphenol (t)

4.705min (+0.043) 2.04ppb m

response 75913

Ion	Exp%	Act%
108.10	100	100
107.00	123.00	100.52
90.00	9.60	8.98
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1583\
 Data File : 2p37936.D
 Acq On : 27 Jun 2014 12:37 pm
 Operator : elwiraa
 Sample : ic1583-80
 Misc : op75638,e2p1583,
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 30 16:16:09 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Fri Jun 27 13:52:34 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.266	152	1200641	40.00	ppb	0.00
24) Naphthalene-d8	5.325	136	4575756	40.00	ppb	0.00
47) Acenaphthene-d10	6.758	164	2654166	40.00	ppb	0.00
69) Phenanthrene-d10	7.999	188	4723327	40.00	ppb	0.00
83) Chrysene-d12	11.134	240	4387935	40.00	ppb	0.01
92) Perylene-d12	13.107	264	4520029	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	4.266	152	1200641	40.00	ppb	0.00
104) Acenaphthene-d10a	6.758	164	2654166	40.00	ppb	0.00
107) Chrysene-d12a	11.134	240	4387935	40.00	ppb	0.01
110) Phenanthrene-d10a	7.999	188	4723327	40.00	ppb	0.00
112) Naphthalene-d8a	5.325	136	4575756	40.00	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol	3.164	112	3074720	113.62	ppb	0.00
Spiked Amount	50.000	Range	11 - 58	Recovery	=	227.24%#
8) Phenol-d5	4.031	99	3588044	95.87	ppb	0.00
Spiked Amount	50.000	Range	10 - 59	Recovery	=	191.74%#
25) Nitrobenzene-d5	4.742	82	3045491	83.49	ppb	0.00
Spiked Amount	50.000	Range	19 - 61	Recovery	=	166.98%#
51) 2-Fluorobiphenyl	6.218	172	5561625	69.50	ppb	0.00
Spiked Amount	50.000	Range	21 - 58	Recovery	=	139.00%#
73) 2,4,6-Tribromophenol	7.416	330	1165385	89.10	ppb	0.00
Spiked Amount	50.000	Range	12 - 68	Recovery	=	178.20%#
85) Terphenyl-d14	9.738	244	7489414	86.73	ppb	0.00
Spiked Amount	50.000	Range	16 - 65	Recovery	=	173.46%#
108) 1-chlorooctadecane	0.000	57	0d	0.00	ppb	
111) 0-terphenyl	0.000	230	0d	0.00	ppb	

Target Compounds

Qvalue

2) 1,4-Dioxane	1.458	88	1397225	85.55	ppb	98
3) Pyridine	1.741	79	3379228	100.06	ppb	100
4) N-Nitrosodimethylamine	1.720	74	1881390	103.49	ppb	99
6) Indene	4.480	116	4753222	79.22	ppb	99
7) Cumene	3.576	105	7158974	85.32	ppb	99
9) Phenol	4.041	94	3753096	86.04	ppb	98
10) Aniline	3.999	93	3651137	80.12	ppb	98
11) bis(2-Chloroethyl)ether	4.068	93	2353698	75.36	ppb	98
12) 2-Chlorophenol	4.106	128	3068252	81.50	ppb	97
13) Decane	4.159	57	2384530	80.99	ppb	97
14) 1,3-Dichlorobenzene	4.218	146	3543276	80.17	ppb	100
15) 1,4-Dichlorobenzene	4.282	146	3495338	75.26	ppb	100
16) Benzyl alcohol	4.416	108	1729186	98.13	ppb	96
17) 1,2-Dichlorobenzene	4.410	146	3193684	76.12	ppb	99
18) Acetophenone	4.624	105	4083277	82.52	ppb	97
19) 2-Methylphenol	4.533	108	2549565	76.94	ppb	100
20) 2,2'-oxybis(1-Chloropr...	4.517	121	697881	81.82	ppb	97
21) 3&4-Methylphenol	4.667	108	2821300	77.25	ppb	99
22) n-Nitroso-di-n-propyla...	4.635	70	1853874	86.97	ppb	98
23) Hexachloroethane	4.678	201	1299556	74.92	ppb	94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1583\
 Data File : 2p37936.D
 Acq On : 27 Jun 2014 12:37 pm
 Operator : elwiraa
 Sample : ic1583-80
 Misc : op75638,e2p1583,
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 30 16:16:09 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Fri Jun 27 13:52:34 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Nitrobenzene	4.758	77	2961373	74.70	ppb	98
27) Quinoline	5.646	129	6602609	82.49	ppb	99
28) Isophorone	4.961	82	5018897	78.86	ppb	99
29) 2-Nitrophenol	5.025	139	1721877	85.45	ppb	93
30) 2,4-Dimethylphenol	5.090	107	2732078	95.13	ppb	98
31) Benzoic acid	5.277	105	2376541m	103.10	ppb	
32) bis(2-Chloroethoxy)met...	5.148	93	3114383	82.51	ppb	100
33) 2,4-Dichlorophenol	5.234	162	2683420	87.80	ppb	96
34) 2,6-Dichlorophenol	5.411	162	2459692	79.43	ppb	98
35) 1,3,5-Trichlorobenzene	5.025	180	3035170	76.40	ppb	99
36) 1,2,4-Trichlorobenzene	5.282	180	2844784	74.14	ppb	99
37) 1,2,3-Trichlorobenzene	5.464	180	2810836	75.88	ppb	99
38) Naphthalene	5.341	128	7353928	70.91	ppb	88
39) 4-Chloroaniline	5.411	127	3632506	77.28	ppb	99
40) 2,3-Dichloroaniline	6.149	161	3424363	81.85	ppb	98
41) Caprolactam	5.731	113	875653	98.10	ppb	99
42) Hexachlorobutadiene	5.453	225	1691791	77.48	ppb	98
43) 4-Chloro-3-methylphenol	5.844	107	2644883	88.18	ppb	98
44) 2-Methylnaphthalene	5.908	141	5199865	80.18	ppb	99
45) 1-Methylnaphthalene	5.988	141	5178032	73.61	ppb	99
46) Dimethylnaphthalene	6.427	156	5002386	78.31	ppb	100
48) Hexachlorocyclopentadiene	6.042	237	3081761	249.12	ppb	99
49) 2,4,6-Trichlorophenol	6.165	196	1909554	86.61	ppb	98
50) 2,4,5-Trichlorophenol	6.208	196	2096635	78.17	ppb	99
52) 2-Chloronaphthalene	6.309	162	5356988	74.43	ppb	97
53) Biphenyl	6.298	154	6571146	72.71	ppb	92
54) 2-Nitroaniline	6.416	65	1625478	82.32	ppb	95
55) Dimethylphthalate	6.561	163	6523149	80.06	ppb	99
56) Acenaphthylene	6.641	152	7911915	70.03	ppb	85
57) 2,6-Dinitrotoluene	6.614	165	1534436	86.60	ppb	97
58) 3-Nitroaniline	6.753	138	1805806	86.72	ppb	97
59) Acenaphthene	6.785	153	5564826	75.48	ppb	99
60) 2,4-Dinitrophenol	6.855	184	2059370	228.96	ppb	98
61) 4-Nitrophenol	6.940	109	743017	94.16	ppb	96
62) Dibenzofuran	6.930	168	7090411	70.71	ppb	85
63) 2,4-Dinitrotoluene	6.956	165	1983668	85.33	ppb	76
64) 2,3,4,6-Tetrachlorophenol	7.053	232	1828183	86.61	ppb	97
65) Diethylphthalate	7.138	149	6525782	80.11	ppb	99
66) Fluorene	7.208	166	5757223	73.51	ppb	99
67) 4-Chlorophenyl-phenyle...	7.213	204	2645052	72.08	ppb	98
68) 4-Nitroaniline	7.267	138	1787657	90.97	ppb	99
70) 4,6-Dinitro-2-methylph...	7.299	198	1313377	104.81	ppb	92
71) n-Nitrosodiphenylamine	7.320	169	4222748	75.84	ppb	100
72) 1,2-Diphenylhydrazine	7.347	77	6034369m	76.31	ppb	
74) 4-Bromophenyl-phenylether	7.614	248	2001415	80.17	ppb	96
75) Hexachlorobenzene	7.673	284	2460975	79.36	ppb	95
76) Pentachlorophenol	7.855	266	2726224	206.72	ppb	99
77) Phenanthrene	8.021	178	8004810	69.81	ppb	88
78) Anthracene	8.069	178	8434844	73.39	ppb	90
79) Carbazole	8.229	167	8806911	77.74	ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1583\
 Data File : 2p37936.D
 Acq On : 27 Jun 2014 12:37 pm
 Operator : elwiraa
 Sample : ic1583-80
 Misc : op75638,e2p1583,
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 30 16:16:09 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Fri Jun 27 13:52:34 2014
 Response via : Initial Calibration

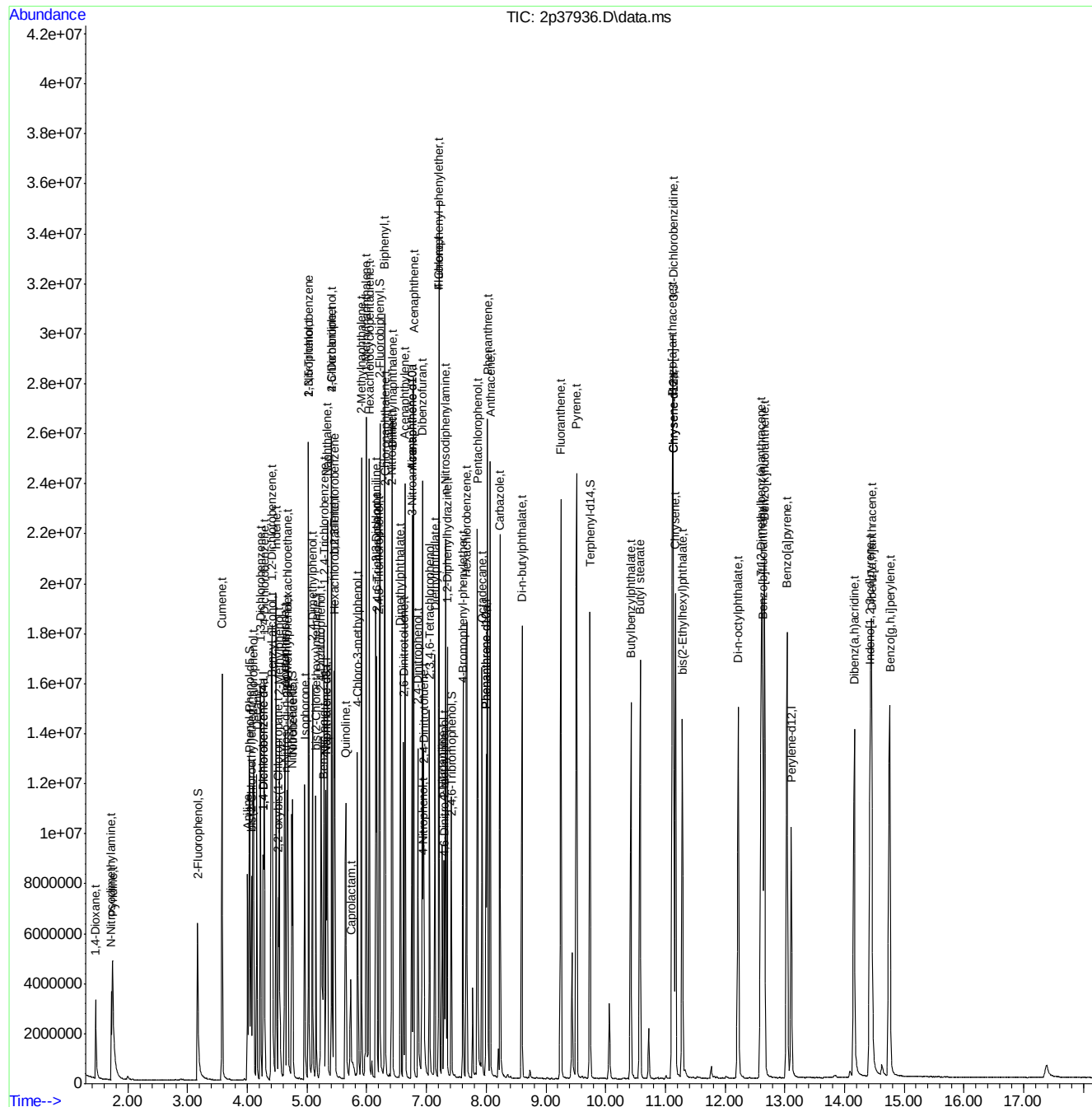
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) Di-n-butylphthalate	8.593	149	10075867	77.03	ppb	93
81) Fluoranthene	9.251	202	10341426	80.45	ppb	92
82) Octadecane	7.930	43	2119779	80.42	ppb	99
84) Pyrene	9.513	202	10524828	80.68	ppb	92
86) Butylbenzylphthalate	10.422	149	5449336	93.50	ppb	100
87) Butyl stearate	10.577	56	3156595	92.79	ppb	96
88) Benzo[a]anthracene	11.118	228	10042101	81.39	ppb	99
89) 3,3'-Dichlorobenzidine	11.128	252	3821969m	35.95	ppb	
90) Chrysene	11.171	228	9074759	83.53	ppb	100
91) bis(2-Ethylhexyl)phtha...	11.283	149	7392132	97.47	ppb	99
93) Di-n-octylphthalate	12.219	149	13064483	96.04	ppb	99
94) Benzo[b]fluoranthene	12.631	252	10305117	79.75	ppb	99
95) Benzo[k]fluoranthene	12.663	252	9502899	79.92	ppb	99
96) Benzo[a]pyrene	13.038	252	9643078	85.81	ppb	98
97) Indeno[1,2,3-cd]pyrene	14.434	276	11583576	83.08	ppb	98
98) Dibenz(a,h)acridine	14.166	279	8721404	87.74	ppb	98
99) Dibenz[a,h]anthracene	14.460	278	8950014	81.05	ppb	97
100) 7,12-Dimethylbenz(a)an...	12.610	256	4932583	92.63	ppb	100
101) Benzo[g,h,i]perylene	14.760	276	9745193	84.36	ppb	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1583\
Data File : 2p37936.D
Acq On : 27 Jun 2014 12:37 pm
Operator : elwiraa
Sample : ic1583-80
Misc : op75638,e2p1583,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 30 16:16:09 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 27 13:52:34 2014
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: E2P1583-IC1583

Method: SW846 8270D

Lab FileID: 2P37936.D

Analyst approved: 07/01/14 12:35 Elwira Antonik

Injection Time: 06/27/14 12:37

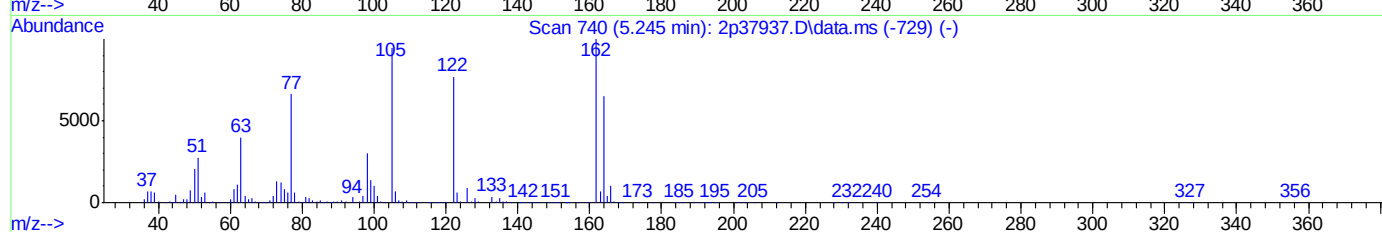
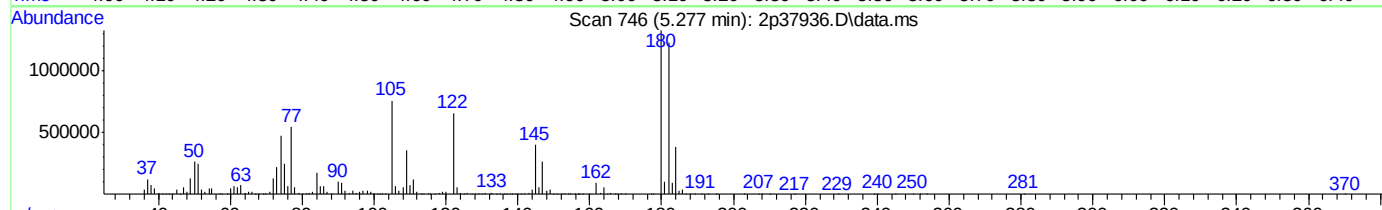
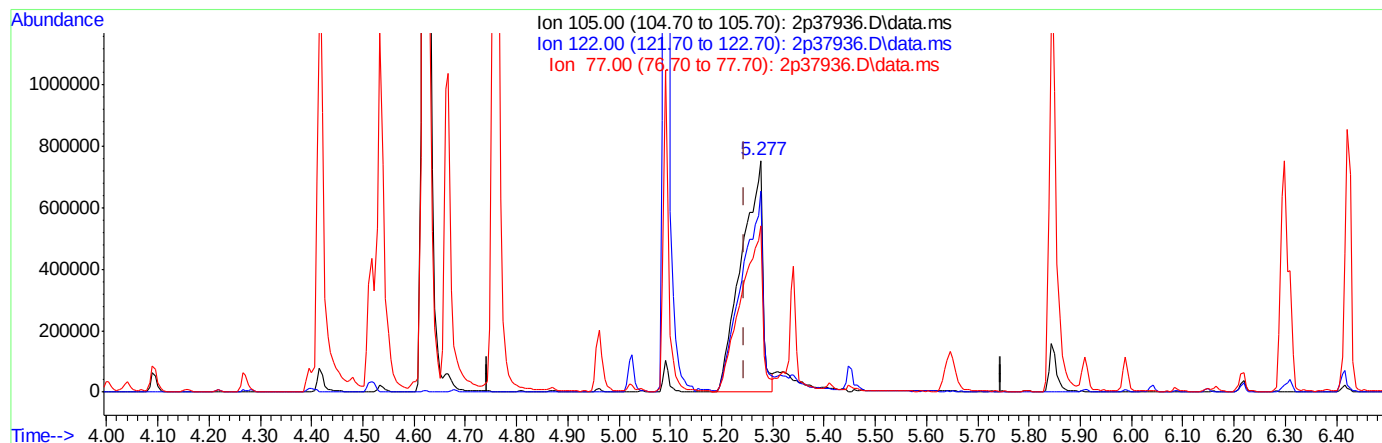
Supervisor approved: 07/02/14 17:06 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic acid	65-85-0		5.28	Poor instrument integration
1,2-Diphenylhydrazine	122-66-7		7.35	Poor instrument integration
3,3'-Dichlorobenzidine	91-94-1		11.13	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1583\
Data File : 2p37936.D
Acq On : 27 Jun 2014 12:37 pm
Operator : elwiraa
Sample : ic1583-80
Misc : op75638,e2p1583,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 27 13:52:41 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 27 13:52:34 2014
Response via : Initial Calibration



TIC: 2p37936.D\data.ms

(31) Benzoic acid (t)

5.277min (+0.032) 93.68ppb

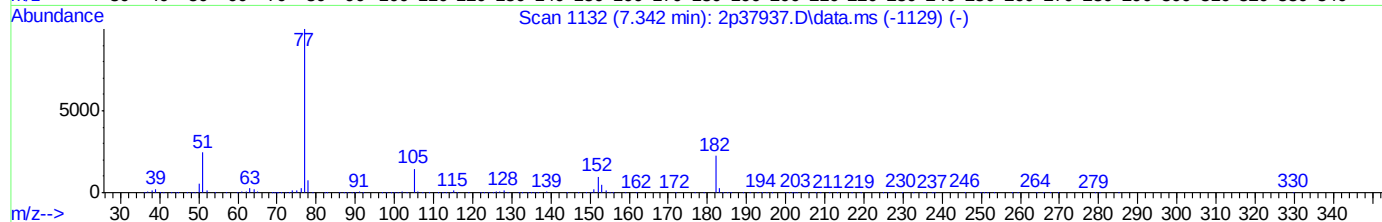
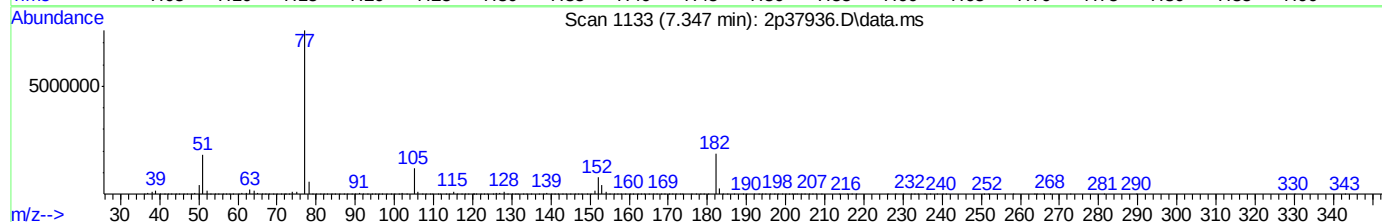
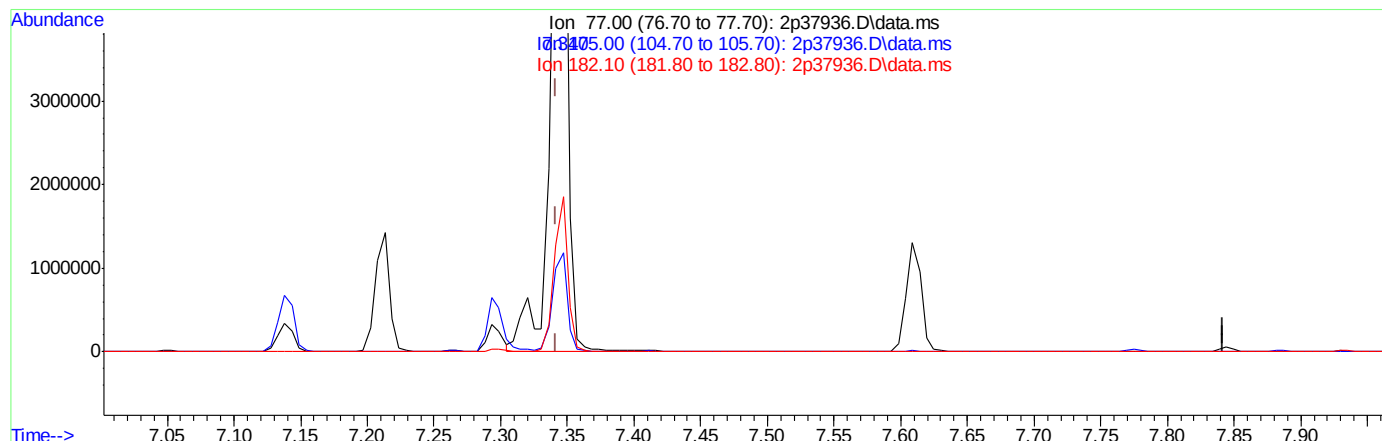
response 2159262

Ion	Exp%	Act%
105.00	100	100
122.00	78.20	86.31
77.00	69.40	71.76
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1583\
Data File : 2p37936.D
Acq On : 27 Jun 2014 12:37 pm
Operator : elwiraa
Sample : ic1583-80
Misc : op75638,e2p1583,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 27 13:55:14 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 27 13:52:34 2014
Response via : Initial Calibration



TIC: 2p37936.D\data.ms

(72) 1,2-Diphenylhydrazine (t)

7.347min (+0.005) 82.20ppb

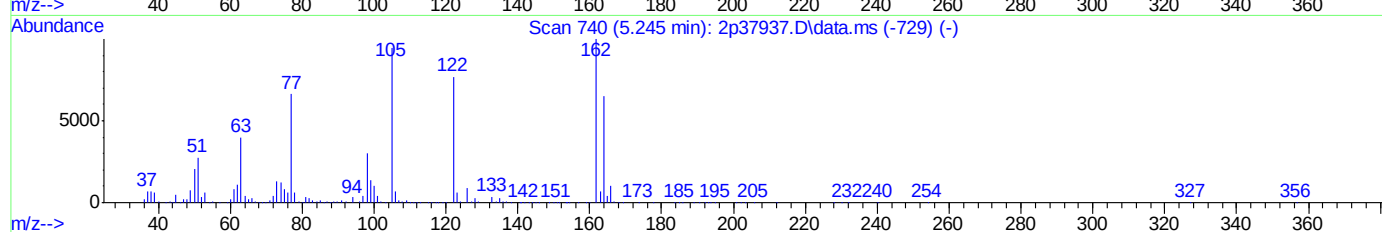
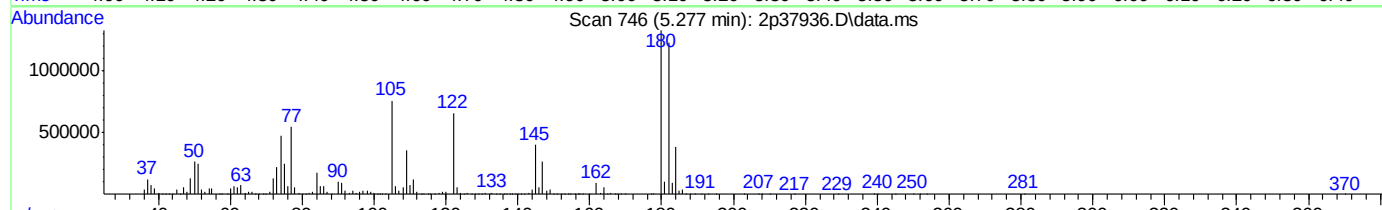
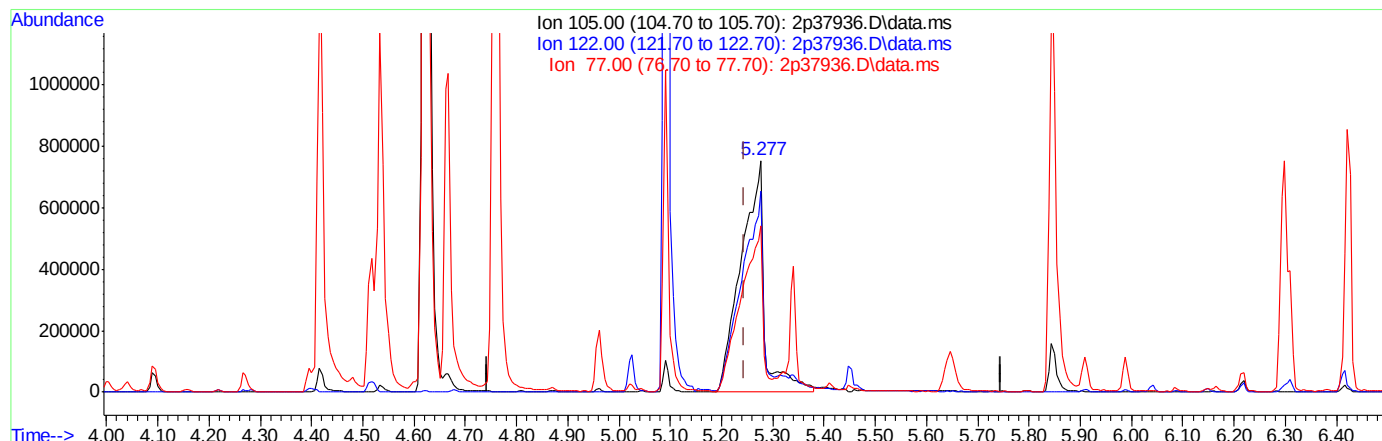
response 6500371

Ion	Exp%	Act%
77.00	100	100
105.00	14.60	14.61
182.10	22.40	24.43
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1583\
Data File : 2p37936.D
Acq On : 27 Jun 2014 12:37 pm
Operator : elwiraa
Sample : ic1583-80
Misc : op75638,e2p1583,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 27 13:57:51 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 27 13:52:34 2014
Response via : Initial Calibration



TIC: 2p37936.D\data.ms

(31) Benzoic acid (t)

5.277min (+0.032) 103.10ppb m

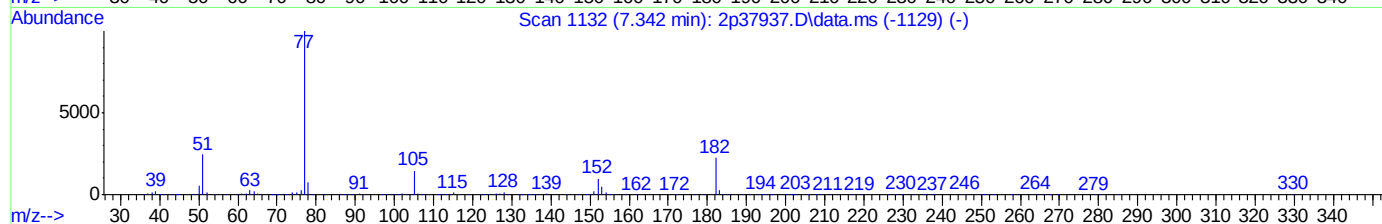
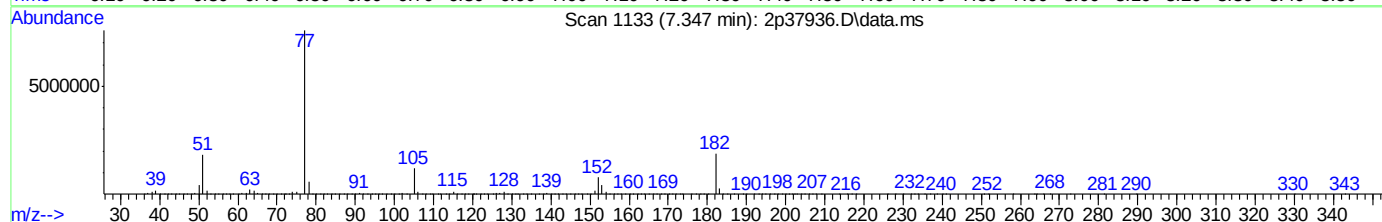
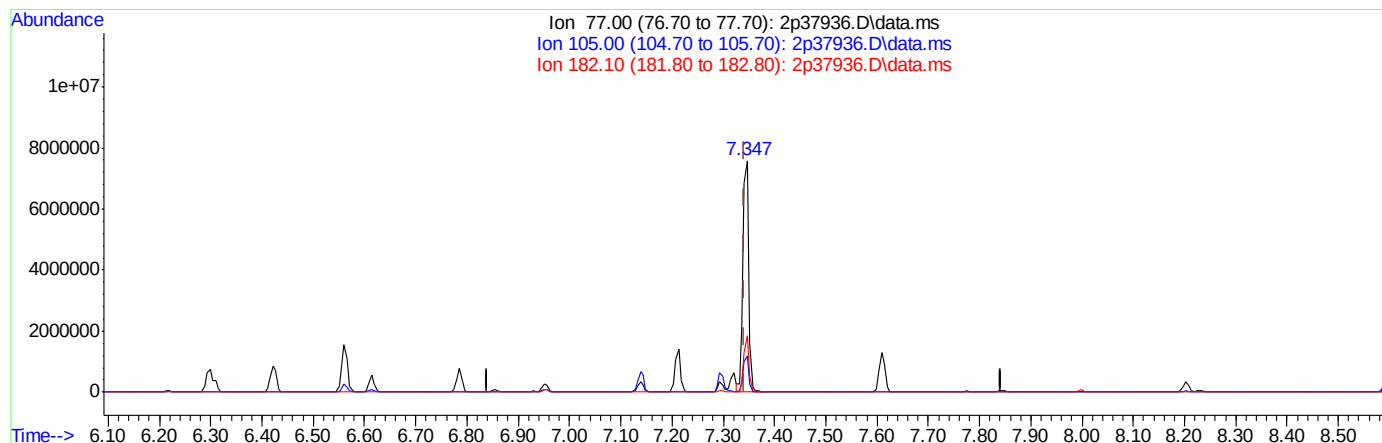
response 2376541

Ion	Exp%	Act%
105.00	100	100
122.00	78.20	86.83
77.00	69.40	71.97
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1583\
Data File : 2p37936.D
Acq On : 27 Jun 2014 12:37 pm
Operator : elwiraa
Sample : ic1583-80
Misc : op75638,e2p1583,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 27 13:57:51 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 27 13:52:34 2014
Response via : Initial Calibration



TIC: 2p37936.D\data.ms

(72) 1,2-Diphenylhydrazine (t)

7.347min (+0.005) 76.31ppb m

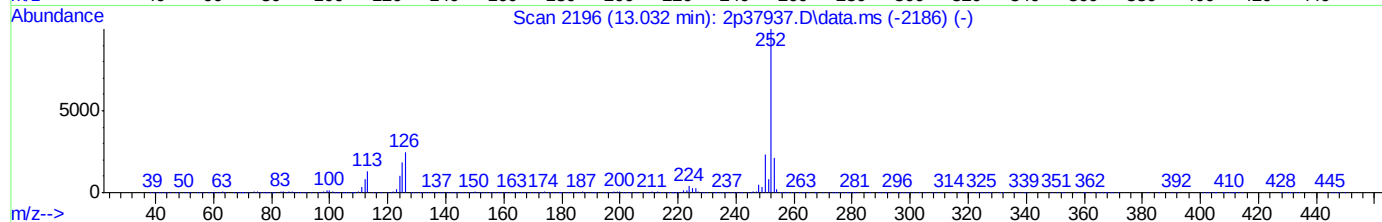
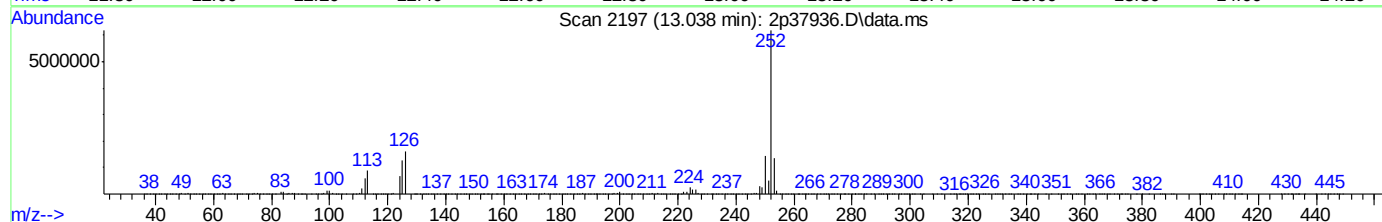
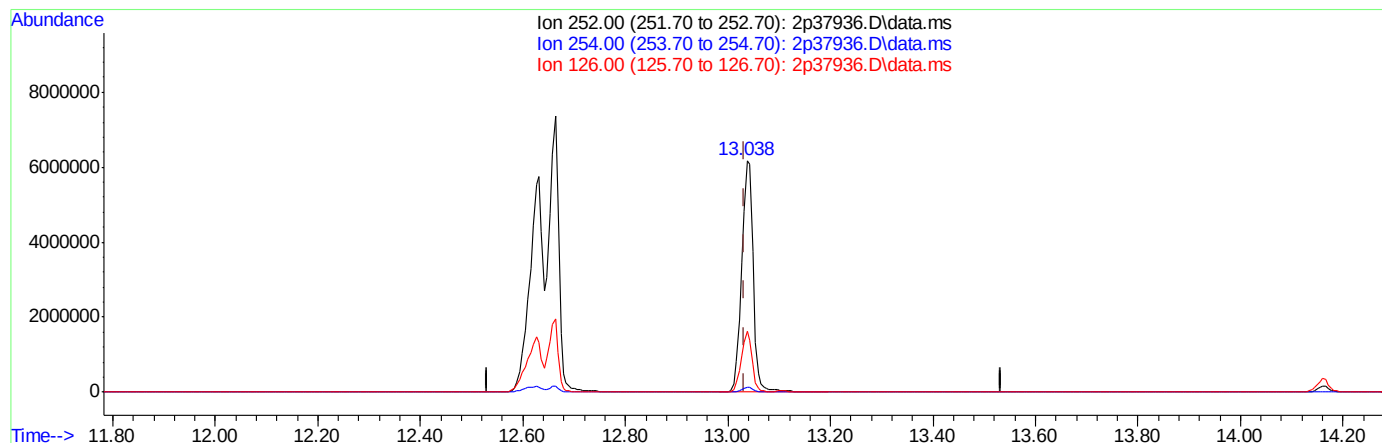
response 6034369

Ion	Exp%	Act%
77.00	100	100
105.00	14.60	15.55
182.10	22.40	24.39
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1583\
Data File : 2p37936.D
Acq On : 27 Jun 2014 12:37 pm
Operator : elwiraa
Sample : ic1583-80
Misc : op75638,e2p1583,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 27 13:57:51 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 27 13:52:34 2014
Response via : Initial Calibration



TIC: 2p37936.D\data.ms

(89) 3,3'-Dichlorobenzidine (t)

13.038min (+0.005) 90.71ppb

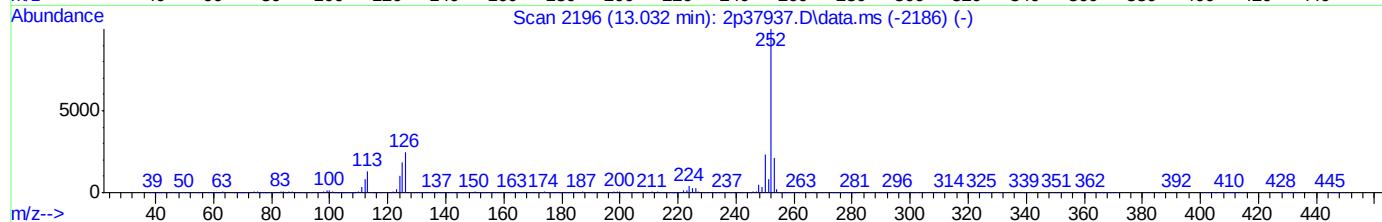
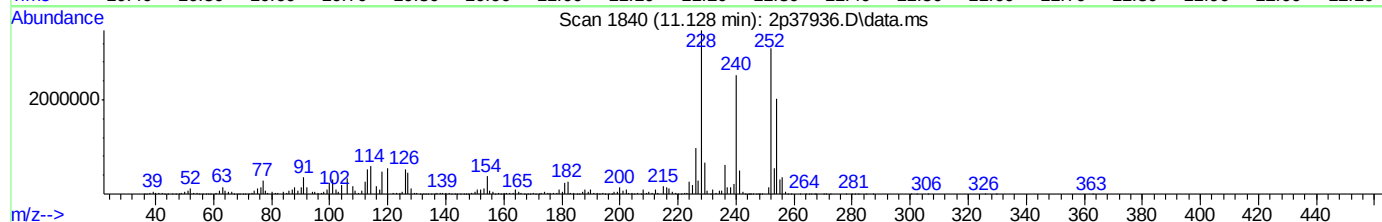
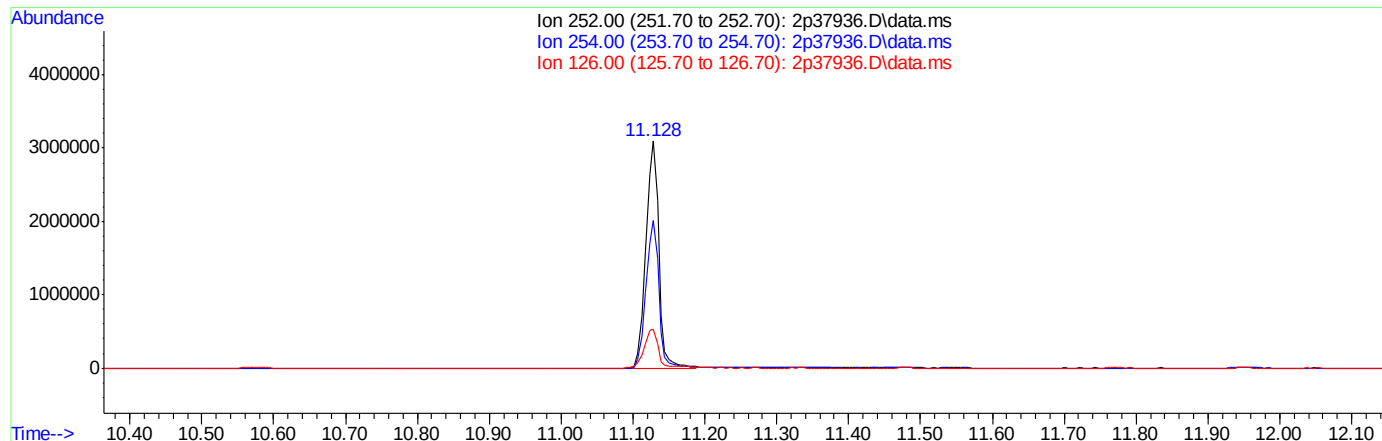
response 9643078

Ion	Exp%	Act%
252.00	100	100
254.00	2.30	2.18
126.00	24.70	26.37
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1583\
Data File : 2p37936.D
Acq On : 27 Jun 2014 12:37 pm
Operator : elwiraa
Sample : ic1583-80
Misc : op75638,e2p1583,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 27 13:57:51 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 27 13:52:34 2014
Response via : Initial Calibration



TIC: 2p37936.D\data.ms

(89) 3,3'-Dichlorobenzidine (t)

11.128min (-1.904) 35.95ppb m

response 3821969

Ion	Exp%	Act%
252.00	100	100
254.00	2.30	65.29#
126.00	24.70	17.13
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1583\
 Data File : 2p37937.D
 Acq On : 27 Jun 2014 1:00 pm
 Operator : elwiraa
 Sample : icc1583-50
 Misc : op75638,e2p1583,
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 30 16:16:43 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Fri Jun 27 13:37:09 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.266	152	1072535	40.00	ppb	0.00
24) Naphthalene-d8	5.320	136	3928954	40.00	ppb	0.00
47) Acenaphthene-d10	6.753	164	2279743	40.00	ppb	0.00
69) Phenanthrene-d10	7.994	188	4021491	40.00	ppb	0.00
83) Chrysene-d12	11.123	240	3957269	40.00	ppb	0.00
92) Perylene-d12	13.102	264	3875297	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	4.266	152	1072535	40.00	ppb	0.00
104) Acenaphthene-d10a	6.753	164	2279743	40.00	ppb	0.00
107) Chrysene-d12a	11.123	240	3957269	40.00	ppb	0.00
110) Phenanthrene-d10a	7.994	188	4021491	40.00	ppb	0.00
112) Naphthalene-d8a	5.320	136	3928954	40.00	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol	3.164	112	1779682	50.00	ppb	0.00
Spiked Amount	50.000	Range	11 - 58	Recovery	=	100.00%#
8) Phenol-d5	4.025	99	2097956	50.00	ppb	0.00
Spiked Amount	50.000	Range	10 - 59	Recovery	=	100.00%#
25) Nitrobenzene-d5	4.742	82	1678640	50.00	ppb	0.00
Spiked Amount	50.000	Range	19 - 61	Recovery	=	100.00%#
51) 2-Fluorobiphenyl	6.213	172	3342988	50.00	ppb	0.00
Spiked Amount	50.000	Range	21 - 58	Recovery	=	100.00%#
73) 2,4,6-Tribromophenol	7.411	330	620924	50.00	ppb	0.00
Spiked Amount	50.000	Range	12 - 68	Recovery	=	100.00%#
85) Terphenyl-d14	9.732	244	4173188	50.24	ppb	0.00
Spiked Amount	50.000	Range	16 - 65	Recovery	=	100.48%#
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	1.458	88	797864	50.00	ppb	100
3) Pyridine	1.742	79	1993217	50.00	ppb	100
4) N-Nitrosodimethylamine	1.720	74	1091932	50.00	ppb	100
6) Indene	4.480	116	2815806	50.00	ppb	100
7) Cumene	3.571	105	4118895	50.00	ppb	100
9) Phenol	4.036	94	2256140	50.00	ppb	100
10) Aniline	3.999	93	2228567	50.00	ppb	100
11) bis(2-Chloroethyl)ether	4.063	93	1393159	50.00	ppb	100
12) 2-Chlorophenol	4.100	128	1829929	50.00	ppb	100
13) Decane	4.154	57	1347888	50.00	ppb	100
14) 1,3-Dichlorobenzene	4.218	146	2070944	50.00	ppb	100
15) 1,4-Dichlorobenzene	4.282	146	2039890	50.00	ppb	100
16) Benzyl alcohol	4.410	108	1031117	50.00	ppb	100
17) 1,2-Dichlorobenzene	4.405	146	1931511	50.00	ppb	100
18) Acetophenone	4.619	105	2417823	50.00	ppb	100
19) 2-Methylphenol	4.528	108	1488647	50.00	ppb	100
20) 2,2'-oxybis(1-Chloropr...	4.517	121	402748	50.00	ppb	100
21) 3&4-Methylphenol	4.662	108	1641545	50.00	ppb	100
22) n-Nitroso-di-n-propyla...	4.630	70	1065213	50.00	ppb	100
23) Hexachloroethane	4.678	201	766218	50.00	ppb	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1583\
 Data File : 2p37937.D
 Acq On : 27 Jun 2014 1:00 pm
 Operator : elwiraa
 Sample : icc1583-50
 Misc : op75638,e2p1583,
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 30 16:16:43 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Fri Jun 27 13:37:09 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Nitrobenzene	4.753	77	1704970	50.00	ppb	100
27) Quinoline	5.630	129	3656039	50.00	ppb	100
28) Isophorone	4.956	82	2853307	50.00	ppb	100
29) 2-Nitrophenol	5.020	139	1024409	50.00	ppb	100
30) 2,4-Dimethylphenol	5.084	107	1495398	50.00	ppb	100
31) Benzoic acid	5.245	105	1354452	50.00	ppb	100
32) bis(2-Chloroethoxy)met...	5.143	93	1725501	50.00	ppb	100
33) 2,4-Dichlorophenol	5.234	162	1481152	50.00	ppb	100
34) 2,6-Dichlorophenol	5.411	162	1429418	50.00	ppb	100
35) 1,3,5-Trichlorobenzene	5.026	180	1807823	50.00	ppb	100
36) 1,2,4-Trichlorobenzene	5.282	180	1680421	50.00	ppb	100
37) 1,2,3-Trichlorobenzene	5.464	180	1618829	50.00	ppb	100
38) Naphthalene	5.336	128	4816680	50.00	ppb	100
39) 4-Chloroaniline	5.405	127	2145282	50.00	ppb	100
40) 2,3-Dichloroaniline	6.149	161	1890886	50.00	ppb	100
41) Caprolactam	5.710	113	465946	50.00	ppb	100
42) Hexachlorobutadiene	5.448	225	962935	50.00	ppb	100
43) 4-Chloro-3-methylphenol	5.839	107	1485707	50.00	ppb	100
44) 2-Methylnaphthalene	5.908	141	3010653	50.00	ppb	100
45) 1-Methylnaphthalene	5.983	141	3007978	50.00	ppb	100
46) Dimethylnaphthalene	6.422	156	2880553	50.00	ppb	100
48) Hexachlorocyclopentadiene	6.042	237	1641927	100.00	ppb	100
49) 2,4,6-Trichlorophenol	6.159	196	1074015	50.00	ppb	100
50) 2,4,5-Trichlorophenol	6.202	196	1198611	50.00	ppb	100
52) 2-Chloronaphthalene	6.304	162	3124733	50.00	ppb	100
53) Biphenyl	6.293	154	4026211	50.00	ppb	100
54) 2-Nitroaniline	6.411	65	898221	50.00	ppb	100
55) Dimethylphthalate	6.555	163	3660160	50.00	ppb	100
56) Acenaphthylene	6.641	152	5279494	50.00	ppb	100
57) 2,6-Dinitrotoluene	6.609	165	853843	50.00	ppb	100
58) 3-Nitroaniline	6.748	138	1005756	50.00	ppb	100
59) Acenaphthene	6.780	153	3244347	50.00	ppb	100
60) 2,4-Dinitrophenol	6.849	184	1065525	100.00	ppb	100
61) 4-Nitrophenol	6.940	109	409603	50.00	ppb	100
62) Dibenzofuran	6.924	168	4557713	50.00	ppb	100
63) 2,4-Dinitrotoluene	6.946	165	1108117	50.00	ppb	100
64) 2,3,4,6-Tetrachlorophenol	7.047	232	988730	50.00	ppb	100
65) Diethylphthalate	7.133	149	3707949	50.00	ppb	100
66) Fluorene	7.202	166	3521360	50.00	ppb	100
67) 4-Chlorophenyl-phenyle...	7.208	204	1612447	50.00	ppb	100
68) 4-Nitroaniline	7.256	138	961767	50.00	ppb	100
70) 4,6-Dinitro-2-methylph...	7.288	198	675803	50.00	ppb	100
71) n-Nitrosodiphenylamine	7.315	169	2393122	50.00	ppb	100
72) 1,2-Diphenylhydrazine	7.342	77	3378433	50.00	ppb	100
74) 4-Bromophenyl-phenylether	7.609	248	1080208	50.00	ppb	100
75) Hexachlorobenzene	7.668	284	1346686	50.00	ppb	100
76) Pentachlorophenol	7.850	266	1441020	100.00	ppb	100
77) Phenanthrene	8.015	178	5040346	50.00	ppb	100
78) Anthracene	8.064	178	5229196	50.00	ppb	100
79) Carbazole	8.229	167	5271761	50.00	ppb	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1583\
 Data File : 2p37937.D
 Acq On : 27 Jun 2014 1:00 pm
 Operator : elwiraa
 Sample : icc1583-50
 Misc : op75638,e2p1583,
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 30 16:16:43 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Fri Jun 27 13:37:09 2014
 Response via : Initial Calibration

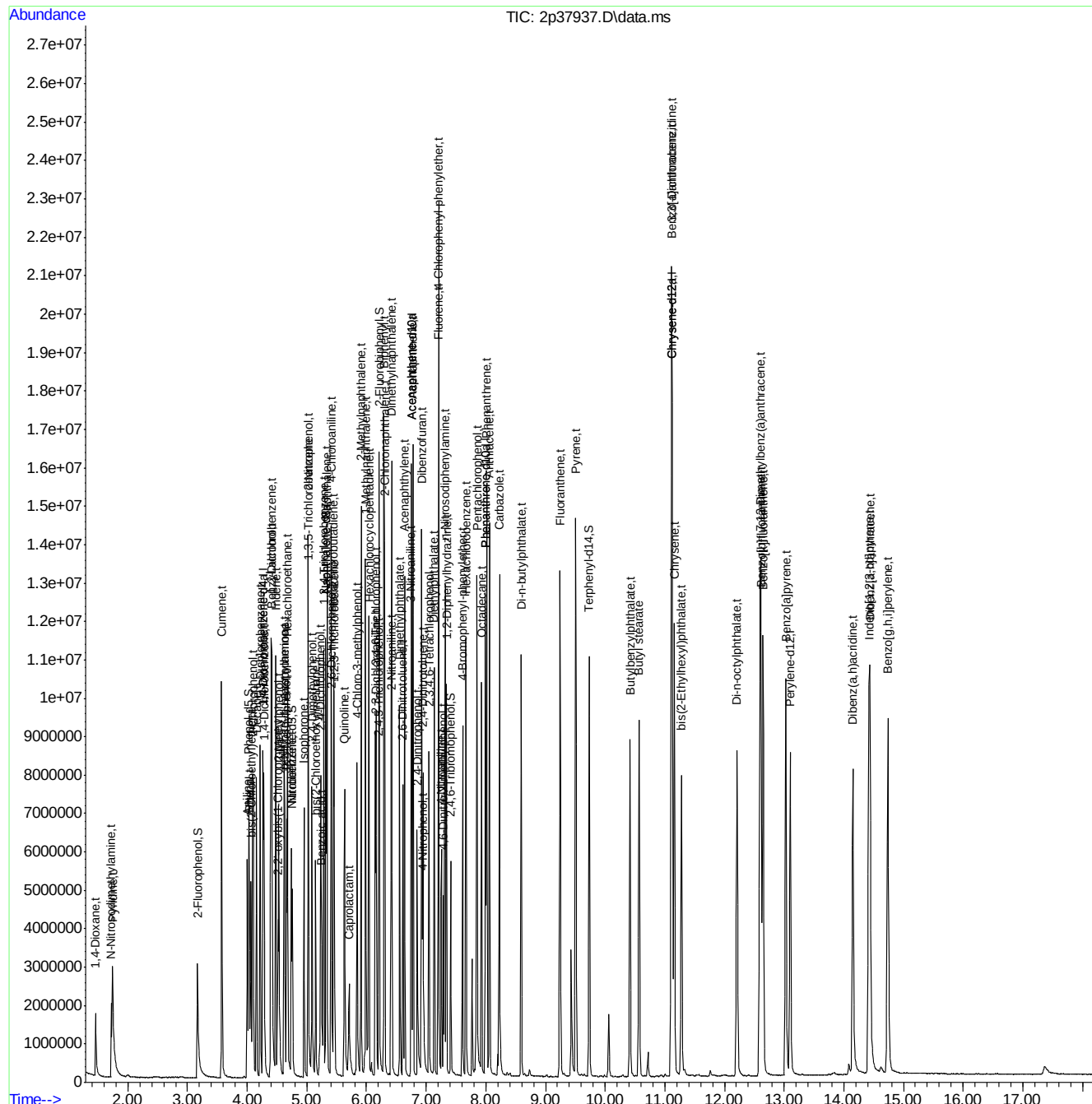
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) Di-n-butylphthalate	8.593	149	6711546	50.00	ppb	100
81) Fluoranthene	9.246	202	6161632	50.00	ppb	100
82) Octadecane	7.930	43	1203038	50.00	ppb	100
84) Pyrene	9.508	202	6308711	50.24	ppb	100
86) Butylbenzylphthalate	10.417	149	3023620	50.24	ppb	100
87) Butyl stearate	10.567	56	1752115	50.24	ppb	100
88) Benzo[a]anthracene	11.112	228	5700187	50.24	ppb	100
89) 3,3'-Dichlorobenzidine	11.118	252	2214605m	20.40	ppb	
90) Chrysene	11.160	228	5118211	50.24	ppb	100
91) bis(2-Ethylhexyl)phtha...	11.278	149	3997421	50.24	ppb	100
93) Di-n-octylphthalate	12.209	149	7127994	50.00	ppb	100
94) Benzo[b]fluoranthene	12.615	252	6048704	50.00	ppb	100
95) Benzo[k]fluoranthene	12.647	252	5277508	50.00	ppb	100
96) Benzo[a]pyrene	13.032	252	5454040	50.00	ppb	100
97) Indeno[1,2,3-cd]pyrene	14.423	276	6608240	50.00	ppb	100
98) Dibenz(a,h)acridine	14.156	279	4858183	50.00	ppb	100
99) Dibenz[a,h]anthracene	14.439	278	5109841	50.00	ppb	100
100) 7,12-Dimethylbenz(a)an...	12.599	256	2761320	50.00	ppb	100
101) Benzo[g,h,i]perylene	14.739	276	5539454	50.00	ppb	100

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

(QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1583\
Data File : 2p37937.D
Acq On : 27 Jun 2014 1:00 pm
Operator : elwiraa
Sample : icc1583-50
Misc : op75638,e2p1583,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 30 16:16:43 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 27 13:37:09 2014
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: E2P1583-ICC1583

Method: SW846 8270D

Lab FileID: 2P37937.D

Analyst approved: 07/01/14 12:35 Elwira Antonik

Injection Time: 06/27/14 13:00

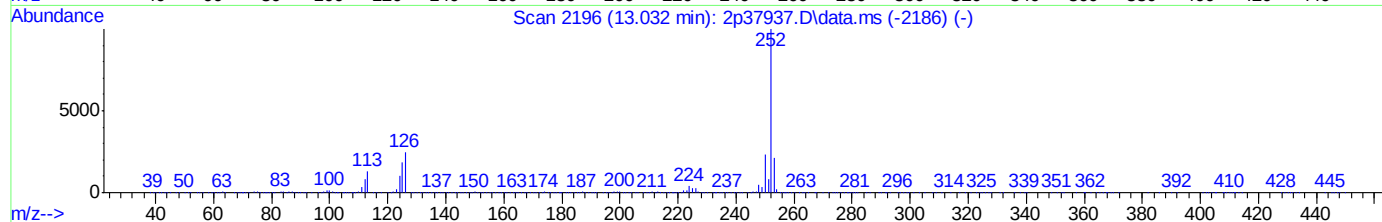
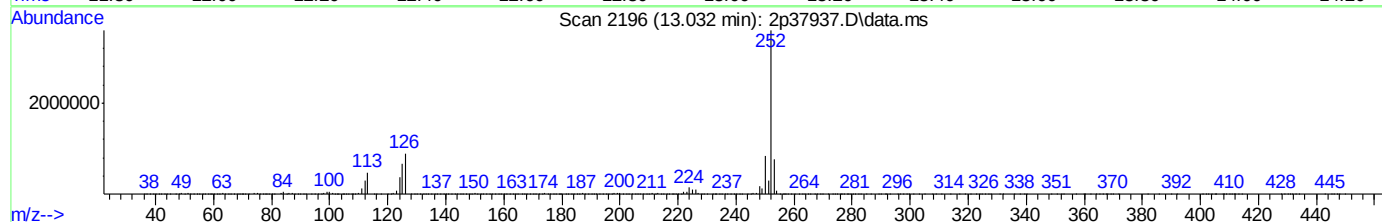
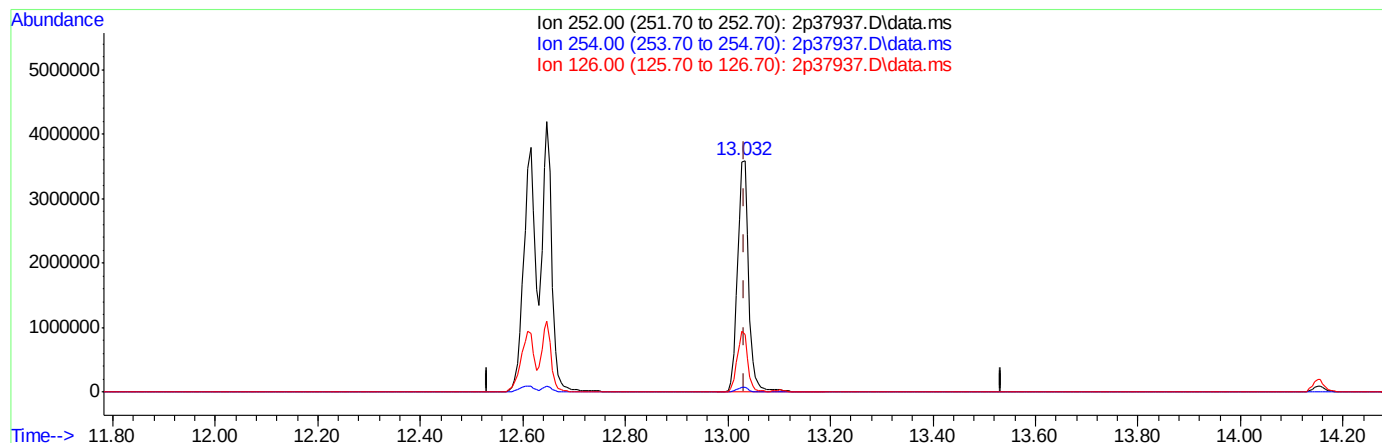
Supervisor approved: 07/02/14 17:06 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
3,3'-Dichlorobenzidine	91-94-1		11.12	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1583\
Data File : 2p37937.D
Acq On : 27 Jun 2014 1:00 pm
Operator : elwiraa
Sample : icc1583-50
Misc : op75638,e2p1583,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 27 13:41:15 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 27 13:37:09 2014
Response via : Initial Calibration



TIC: 2p37937.D\data.ms

(89) 3,3'-Dichlorobenzidine (t)

13.032min (0.000) 50.24ppb

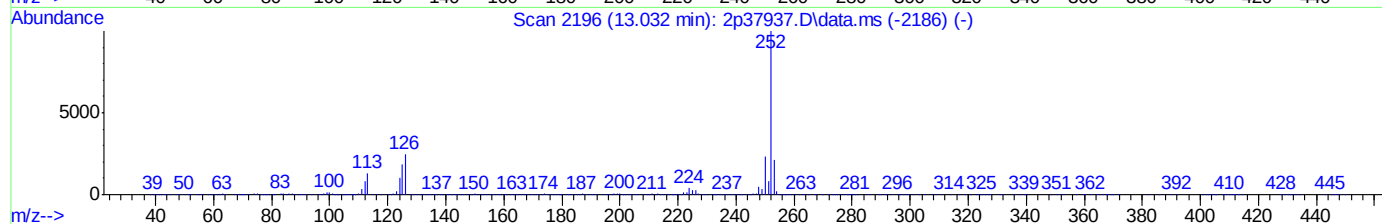
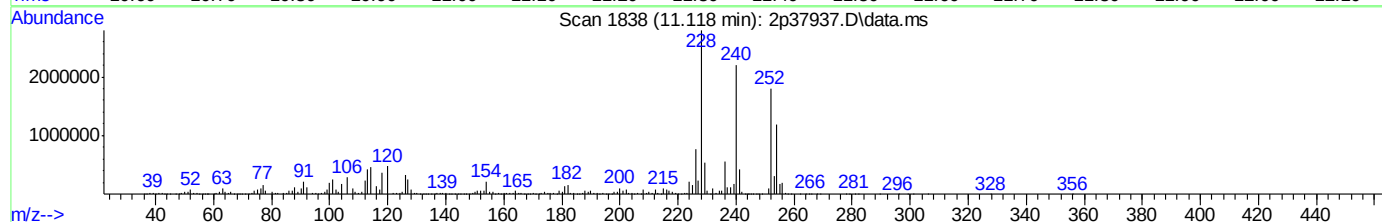
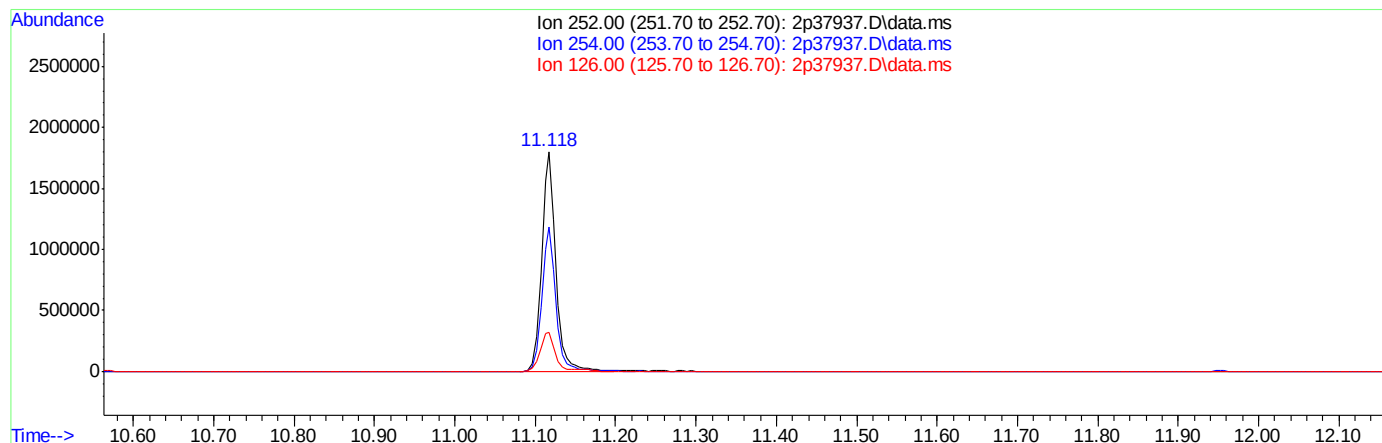
response 5454040

Ion	Exp%	Act%
252.00	100	100
254.00	2.30	2.32
126.00	24.70	24.71
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1583\
Data File : 2p37937.D
Acq On : 27 Jun 2014 1:00 pm
Operator : elwiraa
Sample : icc1583-50
Misc : op75638,e2p1583,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 27 13:41:15 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 27 13:37:09 2014
Response via : Initial Calibration



TIC: 2p37937.D\data.ms

(89) 3,3'-Dichlorobenzidine (t)

11.118min (-1.915) 20.40ppb m

response 2214605

Ion	Exp%	Act%
252.00	100	100
254.00	2.30	65.83#
126.00	24.70	17.67
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1583\
 Data File : 2p37938.D
 Acq On : 27 Jun 2014 2:06 pm
 Operator : elwiraa
 Sample : ic1583-25
 Misc : op75638,e2p1583,
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 30 16:17:18 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Fri Jun 27 13:58:03 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.266	152	1236116	40.00	ppb	0.00
24) Naphthalene-d8	5.320	136	4415015	40.00	ppb	0.00
47) Acenaphthene-d10	6.753	164	2526787	40.00	ppb	0.00
69) Phenanthrene-d10	7.994	188	4390916	40.00	ppb	0.00
83) Chrysene-d12	11.123	240	4459264	40.00	ppb	0.00
92) Perylene-d12	13.102	264	4183673	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	4.266	152	1236116	40.00	ppb	0.00
104) Acenaphthene-d10a	6.753	164	2526787	40.00	ppb	0.00
107) Chrysene-d12a	11.123	240	4459264	40.00	ppb	0.00
110) Phenanthrene-d10a	7.994	188	4390916	40.00	ppb	0.00
112) Naphthalene-d8a	5.320	136	4415015	40.00	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol	3.164	112	891069	29.50	ppb	0.00
Spiked Amount	50.000	Range	11 - 58	Recovery	=	59.00%#
8) Phenol-d5	4.020	99	1183327	29.54	ppb	0.00
Spiked Amount	50.000	Range	10 - 59	Recovery	=	59.08%#
25) Nitrobenzene-d5	4.737	82	954257	26.88	ppb	0.00
Spiked Amount	50.000	Range	19 - 61	Recovery	=	53.76%
51) 2-Fluorobiphenyl	6.213	172	1926552	25.97	ppb	0.00
Spiked Amount	50.000	Range	21 - 58	Recovery	=	51.94%
73) 2,4,6-Tribromophenol	7.411	330	324261	26.08	ppb	0.00
Spiked Amount	50.000	Range	12 - 68	Recovery	=	52.16%
85) Terphenyl-d14	9.732	244	2286633	25.62	ppb	0.00
Spiked Amount	50.000	Range	16 - 65	Recovery	=	51.24%
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	1.458	88	454527	26.66	ppb	97
3) Pyridine	1.747	79	1100891	30.15	ppb	98
4) N-Nitrosodimethylamine	1.726	74	596137	30.08	ppb	99
6) Indene	4.475	116	1606038	26.05	ppb	100
7) Cumene	3.571	105	2380446	27.19	ppb	100
9) Phenol	4.031	94	1309584	28.73	ppb	93
10) Aniline	3.999	93	1307828	27.87	ppb	96
11) bis(2-Chloroethyl)ether	4.063	93	858188	27.00	ppb	96
12) 2-Chlorophenol	4.100	128	1083825	27.86	ppb	95
13) Decane	4.154	57	768713	25.30	ppb	99
14) 1,3-Dichlorobenzene	4.218	146	1200982	26.38	ppb	100
15) 1,4-Dichlorobenzene	4.277	146	1198254	25.36	ppb	99
16) Benzyl alcohol	4.411	108	581715	30.67	ppb	97
17) 1,2-Dichlorobenzene	4.405	146	1129015	26.39	ppb	99
18) Acetophenone	4.614	105	1342283	26.18	ppb	92
19) 2-Methylphenol	4.528	108	844844	24.95	ppb	98
20) 2,2'-oxybis(1-Chloropr...	4.512	121	224387	25.44	ppb	94
21) 3&4-Methylphenol	4.662	108	900192	24.11	ppb	100
22) n-Nitroso-di-n-propyla...	4.625	70	611091	27.37	ppb	98
23) Hexachloroethane	4.678	201	433302	24.58	ppb	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1583\
 Data File : 2p37938.D
 Acq On : 27 Jun 2014 2:06 pm
 Operator : elwiraa
 Sample : ic1583-25
 Misc : op75638,e2p1583,
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 30 16:17:18 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Fri Jun 27 13:58:03 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Nitrobenzene	4.753	77	959484	25.42	ppb	99
27) Quinoline	5.625	129	1995307	25.68	ppb	100
28) Isophorone	4.951	82	1611800	26.32	ppb	100
29) 2-Nitrophenol	5.020	139	566051	28.72	ppb	86
30) 2,4-Dimethylphenol	5.084	107	772005	26.84	ppb	98
31) Benzoic acid	5.224	105	700531	29.38	ppb	97
32) bis(2-Chloroethoxy)met...	5.143	93	985052	26.88	ppb	99
33) 2,4-Dichlorophenol	5.234	162	844640	28.09	ppb	97
34) 2,6-Dichlorophenol	5.405	162	807679	27.07	ppb	99
35) 1,3,5-Trichlorobenzene	5.020	180	1038282	27.33	ppb	100
36) 1,2,4-Trichlorobenzene	5.282	180	943221	25.85	ppb	98
37) 1,2,3-Trichlorobenzene	5.459	180	911671	25.77	ppb	98
38) Naphthalene	5.336	128	2728589	27.90	ppb	99
39) 4-Chloroaniline	5.400	127	1198367	26.60	ppb	96
40) 2,3-Dichloroaniline	6.144	161	1063495	26.22	ppb	95
41) Caprolactam	5.694	113	262868	29.20	ppb	94
42) Hexachlorobutadiene	5.448	225	540526	25.82	ppb	98
43) 4-Chloro-3-methylphenol	5.833	107	816386	27.64	ppb	97
44) 2-Methylnaphthalene	5.908	141	1692103	27.03	ppb	98
45) 1-Methylnaphthalene	5.983	141	1688037	25.27	ppb	99
46) Dimethylnaphthalene	6.416	156	1638487	26.70	ppb	99
48) Hexachlorocyclopentadiene	6.037	237	860848	65.77	ppb	97
49) 2,4,6-Trichlorophenol	6.160	196	581836	27.27	ppb	99
50) 2,4,5-Trichlorophenol	6.202	196	666038	26.20	ppb	99
52) 2-Chloronaphthalene	6.304	162	1779700	26.34	ppb	99
53) Biphenyl	6.293	154	2257261	26.72	ppb	100
54) 2-Nitroaniline	6.406	65	490238	25.93	ppb	91
55) Dimethylphthalate	6.555	163	2018111	26.01	ppb	100
56) Acenaphthylene	6.636	152	2991072	28.52	ppb	99
57) 2,6-Dinitrotoluene	6.609	165	461435	26.91	ppb	96
58) 3-Nitroaniline	6.748	138	543946	26.99	ppb	97
59) Acenaphthene	6.780	153	1764828	25.43	ppb	99
60) 2,4-Dinitrophenol	6.850	184	525657	55.42	ppb	95
61) 4-Nitrophenol	6.940	109	225443	28.74	ppb	97
62) Dibenzofuran	6.924	168	2529358	27.12	ppb	99
63) 2,4-Dinitrotoluene	6.946	165	613741	27.37	ppb	84
64) 2,3,4,6-Tetrachlorophenol	7.047	232	526703	25.78	ppb	99
65) Diethylphthalate	7.133	149	2009608	25.91	ppb	99
66) Fluorene	7.203	166	1979464	26.99	ppb	100
67) 4-Chlorophenyl-phenyle...	7.208	204	921450	26.91	ppb	98
68) 4-Nitroaniline	7.251	138	523968	27.26	ppb	98
70) 4,6-Dinitro-2-methylph...	7.288	198	357064	28.45	ppb	99
71) n-Nitrosodiphenylamine	7.315	169	1317472	25.72	ppb	98
72) 1,2-Diphenylhydrazine	7.336	77	1886180	26.29	ppb	94
74) 4-Bromophenyl-phenylether	7.609	248	589297	25.38	ppb	97
75) Hexachlorobenzene	7.668	284	729923	25.36	ppb	100
76) Pentachlorophenol	7.850	266	772124	59.51	ppb	99
77) Phenanthrene	8.016	178	2794530	26.90	ppb	100
78) Anthracene	8.058	178	2878151	27.39	ppb	99
79) Carbazole	8.229	167	2885602	27.56	ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1583\
Data File : 2p37938.D
Acq On : 27 Jun 2014 2:06 pm
Operator : elwiraa
Sample : ic1583-25
Misc : op75638,e2p1583,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 30 16:17:18 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 27 13:58:03 2014
Response via : Initial Calibration

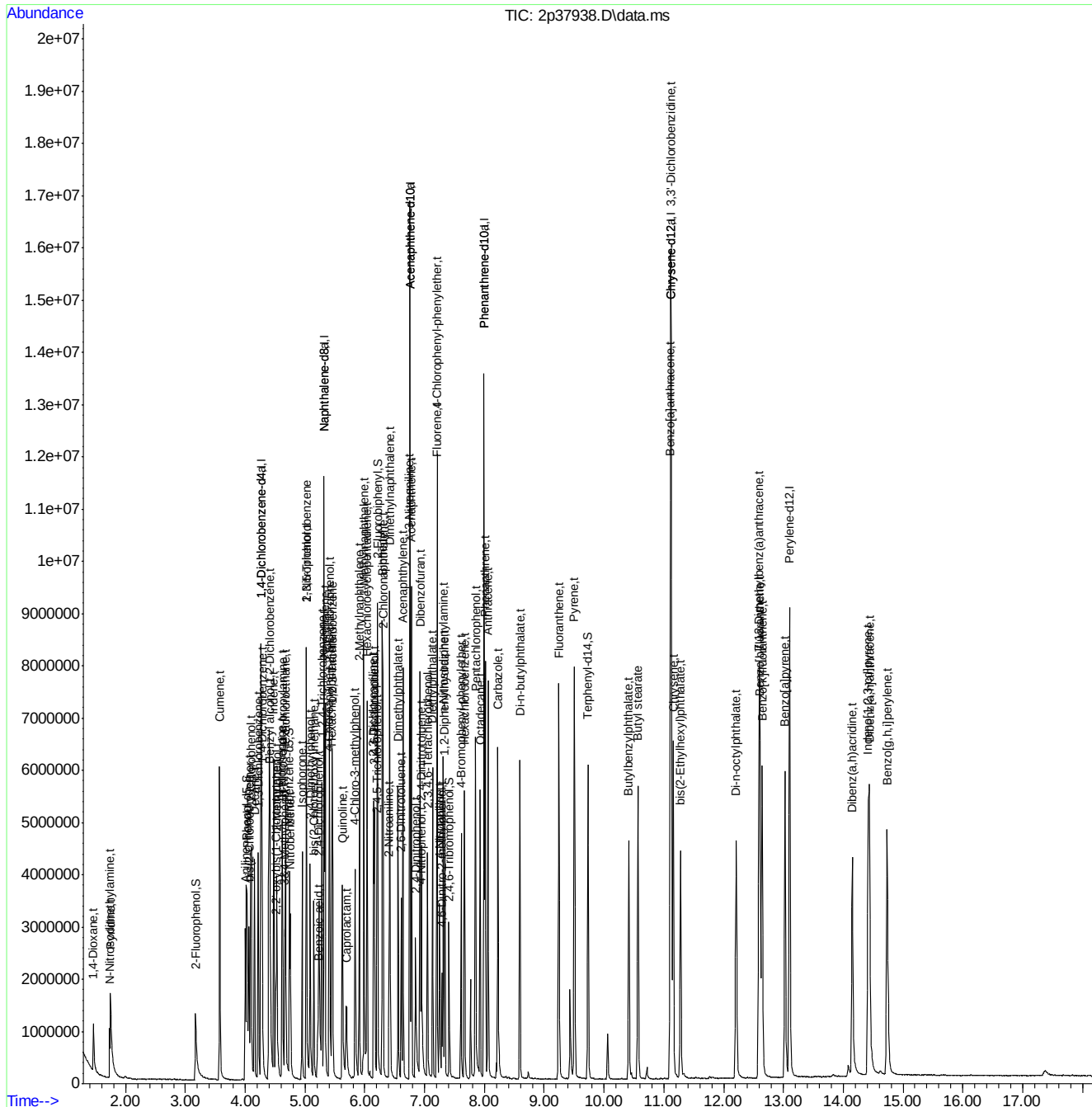
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) Di-n-butylphthalate	8.593	149	3640330	30.16	ppb	99
81) Fluoranthene	9.246	202	3419993	28.59	ppb	98
82) Octadecane	7.930	43	664860	27.11	ppb	97
84) Pyrene	9.502	202	3544853	26.69	ppb	99
86) Butylbenzylphthalate	10.412	149	1598987	26.12	ppb	97
87) Butyl stearate	10.567	56	973318	27.28	ppb	98
88) Benzo[a]anthracene	11.107	228	3176627	25.25	ppb	100
89) 3,3'-Dichlorobenzidine	11.118	252	1220593m	11.00	ppb	
90) Chrysene	11.161	228	2803699	25.17	ppb	100
91) bis(2-Ethylhexyl)phtha...	11.278	149	2173405	27.02	ppb	100
93) Di-n-octylphthalate	12.209	149	3809291	29.09	ppb	100
94) Benzo[b]fluoranthene	12.610	252	3249930	27.19	ppb	99
95) Benzo[k]fluoranthene	12.642	252	2969230	26.98	ppb	99
96) Benzo[a]pyrene	13.027	252	2855992	27.07	ppb	99
97) Indeno[1,2,3-cd]pyrene	14.418	276	3519932	27.07	ppb	99
98) Dibenz(a,h)acridine	14.150	279	2533485	27.01	ppb	99
99) Dibenz[a,h]anthracene	14.439	278	2703639	26.38	ppb	99
100) 7,12-Dimethylbenz(a)an...	12.594	256	1460519	28.73	ppb	99
101) Benzo[g,h,i]perylene	14.733	276	2910340	26.92	ppb	98

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

(QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1583\
Data File : 2p37938.D
Acq On : 27 Jun 2014 2:06 pm
Operator : elwiraa
Sample : ic1583-25
Misc : op75638,e2p1583,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 30 16:17:18 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 27 13:58:03 2014
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: E2P1583-IC1583

Method: SW846 8270D

Lab FileID: 2P37938.D

Analyst approved: 07/01/14 12:35 Elwira Antonik

Injection Time: 06/27/14 14:06

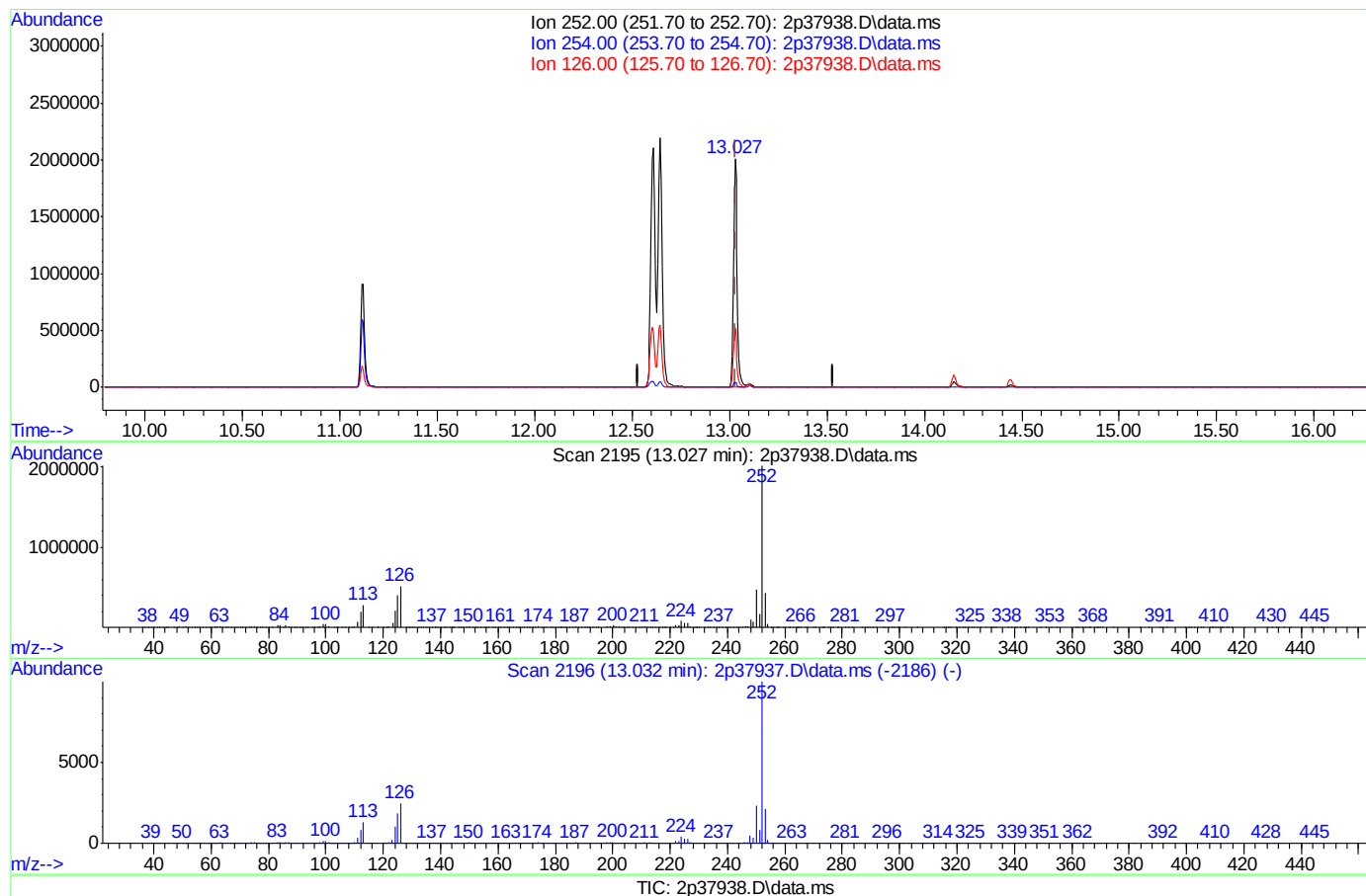
Supervisor approved: 07/02/14 17:06 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
3,3'-Dichlorobenzidine	91-94-1		11.12	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1583\
Data File : 2p37938.D
Acq On : 27 Jun 2014 2:06 pm
Operator : elwiraa
Sample : ic1583-25
Misc : op75638,e2p1583,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 27 15:11:54 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 27 13:58:03 2014
Response via : Initial Calibration



(89) 3,3'-Dichlorobenzidine (t)

13.027min (-0.005) 25.75ppb

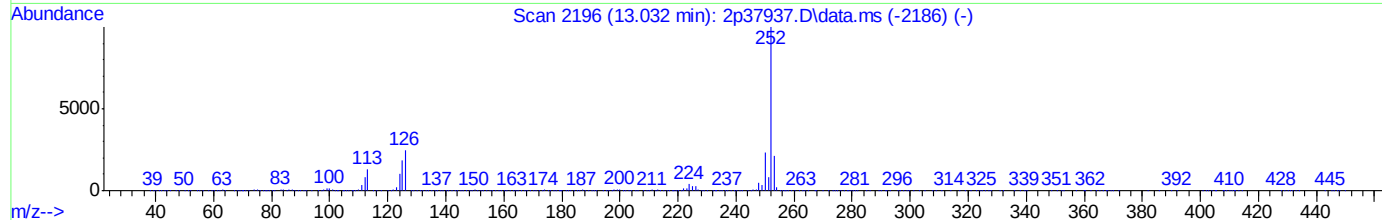
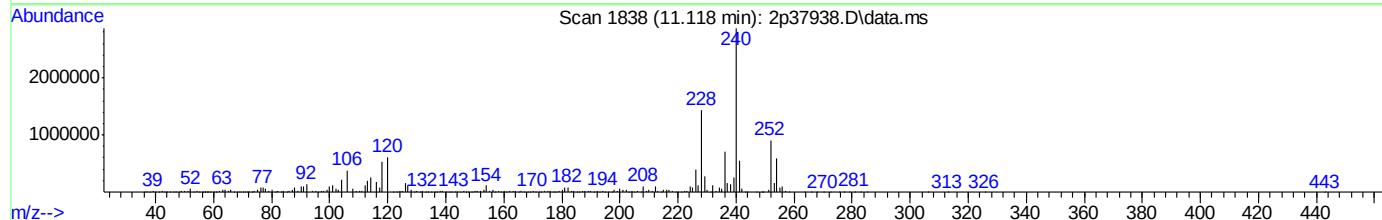
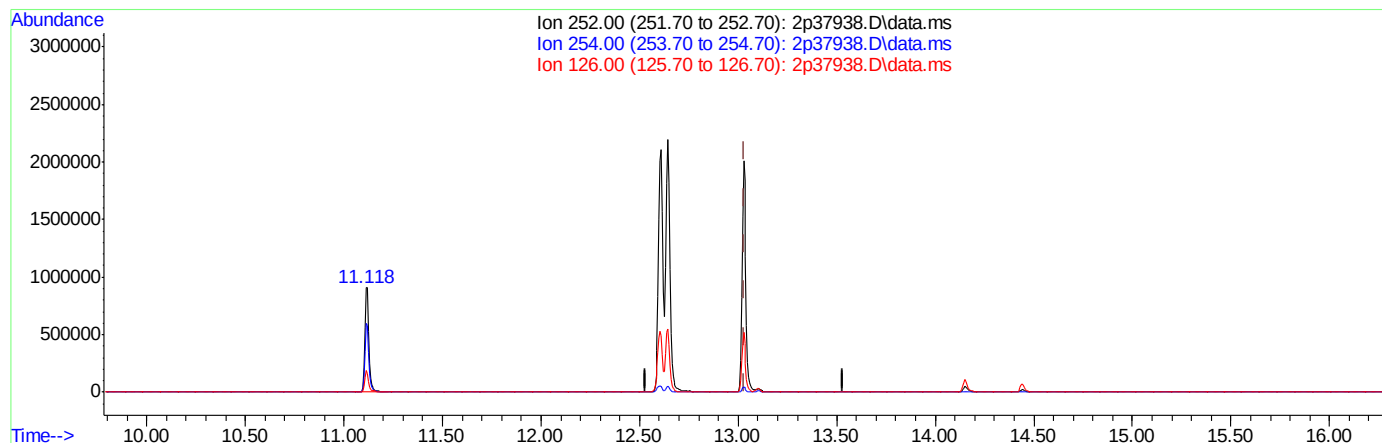
response 2856214

Ion	Exp%	Act%
252.00	100	100
254.00	2.30	2.21
126.00	24.70	25.59
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1583\
Data File : 2p37938.D
Acq On : 27 Jun 2014 2:06 pm
Operator : elwiraa
Sample : ic1583-25
Misc : op75638,e2p1583,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 27 15:11:54 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 27 13:58:03 2014
Response via : Initial Calibration



(89) 3,3'-Dichlorobenzidine (t)

11.118min (-1.915) 11.00ppb m

response 1220593

Ion	Exp%	Act%
252.00	100	100
254.00	2.30	64.06#
126.00	24.70	17.01
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1583\
 Data File : 2p37939.D
 Acq On : 27 Jun 2014 2:29 pm
 Operator : elwiraa
 Sample : ic1583-10
 Misc : op75638,e2p1583,
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 30 16:17:52 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Fri Jun 27 15:12:27 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.266	152	1692485	40.00	ppb	0.00
24) Naphthalene-d8	5.320	136	6009048	40.00	ppb	0.00
47) Acenaphthene-d10	6.753	164	3335661	40.00	ppb	0.00
69) Phenanthrene-d10	7.994	188	5803698	40.00	ppb	0.00
83) Chrysene-d12	11.128	240	6096749	40.00	ppb	0.00
92) Perylene-d12	13.107	264	5703968	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	4.266	152	1692485	40.00	ppb	0.00
104) Acenaphthene-d10a	6.753	164	3335661	40.00	ppb	0.00
107) Chrysene-d12a	11.128	240	6096749	40.00	ppb	0.00
110) Phenanthrene-d10a	7.994	188	5803698	40.00	ppb	0.00
112) Naphthalene-d8a	5.320	136	6009048	40.00	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol	3.180	112	443404	10.41	ppb	0.02
Spiked Amount	50.000	Range	11 - 58	Recovery	=	20.82%
8) Phenol-d5	4.025	99	609141	10.78	ppb	0.00
Spiked Amount	50.000	Range	10 - 59	Recovery	=	21.56%
25) Nitrobenzene-d5	4.742	82	515582	10.54	ppb	0.00
Spiked Amount	50.000	Range	19 - 61	Recovery	=	21.08%
51) 2-Fluorobiphenyl	6.213	172	1068339	10.84	ppb	0.00
Spiked Amount	50.000	Range	21 - 58	Recovery	=	21.68%
73) 2,4,6-Tribromophenol	7.411	330	161482	9.75	ppb	0.00
Spiked Amount	50.000	Range	12 - 68	Recovery	=	19.50%
85) Terphenyl-d14	9.732	244	1220030	9.96	ppb	0.00
Spiked Amount	50.000	Range	16 - 65	Recovery	=	19.92%
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	1.463	88	221417	9.38	ppb	96
3) Pyridine	1.758	79	514630	9.95	ppb	96
4) N-Nitrosodimethylamine	1.736	74	291090	10.38	ppb	99
6) Indene	4.480	116	877725	10.33	ppb	100
7) Cumene	3.571	105	1256886	10.34	ppb	99
9) Phenol	4.036	94	697577	10.91	ppb	95
10) Aniline	4.004	93	720976	11.01	ppb	97
11) bis(2-Chloroethyl)ether	4.063	93	475968	10.79	ppb	94
12) 2-Chlorophenol	4.106	128	583577	10.75	ppb	98
13) Decane	4.154	57	429572	10.30	ppb	99
14) 1,3-Dichlorobenzene	4.218	146	656932	10.44	ppb	97
15) 1,4-Dichlorobenzene	4.282	146	650096	10.02	ppb	98
16) Benzyl alcohol	4.416	108	302634	11.23	ppb	89
17) 1,2-Dichlorobenzene	4.405	146	605028	10.23	ppb	99
18) Acetophenone	4.619	105	725182	10.25	ppb	96
19) 2-Methylphenol	4.528	108	480726	10.37	ppb	97
20) 2,2'-oxybis(1-Chloropr...	4.517	121	121783	10.05	ppb	94
21) 3&4-Methylphenol	4.667	108	484431	9.53	ppb	100
22) n-Nitroso-di-n-propyla...	4.624	70	325071	10.47	ppb	96
23) Hexachloroethane	4.678	201	240535	9.99	ppb	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1583\
 Data File : 2p37939.D
 Acq On : 27 Jun 2014 2:29 pm
 Operator : elwiraa
 Sample : ic1583-10
 Misc : op75638,e2p1583,
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 30 16:17:52 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Fri Jun 27 15:12:27 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Nitrobenzene	4.758	77	529973	10.29	ppb	96
27) Quinoline	5.619	129	1048809	9.87	ppb	99
28) Isophorone	4.951	82	851983	10.13	ppb	98
29) 2-Nitrophenol	5.020	139	301086	10.95	ppb	# 72
30) 2,4-Dimethylphenol	5.084	107	401819	10.14	ppb	99
31) Benzoic acid	5.207	105	320490m	9.54	ppb	
32) bis(2-Chloroethoxy)met...	5.143	93	521156	10.32	ppb	100
33) 2,4-Dichlorophenol	5.239	162	445115	10.66	ppb	99
34) 2,6-Dichlorophenol	5.411	162	432739	10.51	ppb	98
35) 1,3,5-Trichlorobenzene	5.026	180	564994	10.76	ppb	99
36) 1,2,4-Trichlorobenzene	5.282	180	516918	10.35	ppb	99
37) 1,2,3-Trichlorobenzene	5.459	180	510319	10.54	ppb	97
38) Naphthalene	5.336	128	1449767	10.69	ppb	100
39) 4-Chloroaniline	5.405	127	663674	10.71	ppb	98
40) 2,3-Dichloroaniline	6.149	161	571857	10.28	ppb	97
41) Caprolactam	5.683	113	131785	10.46	ppb	97
42) Hexachlorobutadiene	5.448	225	295344	10.31	ppb	99
43) 4-Chloro-3-methylphenol	5.839	107	424108	10.37	ppb	96
44) 2-Methylnaphthalene	5.908	141	915052	10.60	ppb	98
45) 1-Methylnaphthalene	5.983	141	923090	10.14	ppb	97
46) Dimethylnaphthalene	6.422	156	878694	10.40	ppb	98
48) Hexachlorocyclopentadiene	6.036	237	366304	20.14	ppb	98
49) 2,4,6-Trichlorophenol	6.159	196	305862	10.70	ppb	97
50) 2,4,5-Trichlorophenol	6.208	196	357812	10.58	ppb	95
52) 2-Chloronaphthalene	6.304	162	980359	10.89	ppb	97
53) Biphenyl	6.293	154	1221134	10.83	ppb	98
54) 2-Nitroaniline	6.411	65	261994	10.43	ppb	92
55) Dimethylphthalate	6.555	163	1052072	10.20	ppb	100
56) Acenaphthylene	6.641	152	1571143	11.09	ppb	98
57) 2,6-Dinitrotoluene	6.609	165	237870	10.38	ppb	99
58) 3-Nitroaniline	6.748	138	274855	10.19	ppb	91
59) Acenaphthene	6.780	153	929738	10.12	ppb	98
60) 2,4-Dinitrophenol	6.855	184	220230	17.21	ppb	97
61) 4-Nitrophenol	6.951	109	105511	9.89	ppb	# 62
62) Dibenzofuran	6.924	168	1341058	10.74	ppb	99
63) 2,4-Dinitrotoluene	6.951	165	328172	10.91	ppb	91
64) 2,3,4,6-Tetrachlorophenol	7.047	232	272894	10.07	ppb	97
65) Diethylphthalate	7.133	149	1075503	10.44	ppb	99
66) Fluorene	7.202	166	1063587	10.84	ppb	100
67) 4-Chlorophenyl-phenyle...	7.208	204	492181	10.75	ppb	99
68) 4-Nitroaniline	7.251	138	282270	10.96	ppb	98
70) 4,6-Dinitro-2-methylph...	7.288	198	159755	9.37	ppb	95
71) n-Nitrosodiphenylamine	7.315	169	719339	10.57	ppb	99
72) 1,2-Diphenylhydrazine	7.336	77	1001287	10.47	ppb	94
74) 4-Bromophenyl-phenylether	7.609	248	303609	9.87	ppb	96
75) Hexachlorobenzene	7.668	284	390454	10.24	ppb	99
76) Pentachlorophenol	7.850	266	355639	20.10	ppb	99
77) Phenanthrene	8.015	178	1420180	10.21	ppb	100
78) Anthracene	8.064	178	1532102	10.86	ppb	99
79) Carbazole	8.229	167	1540197	10.94	ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1583\
 Data File : 2p37939.D
 Acq On : 27 Jun 2014 2:29 pm
 Operator : elwiraa
 Sample : ic1583-10
 Misc : op75638,e2p1583,
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 30 16:17:52 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Fri Jun 27 15:12:27 2014
 Response via : Initial Calibration

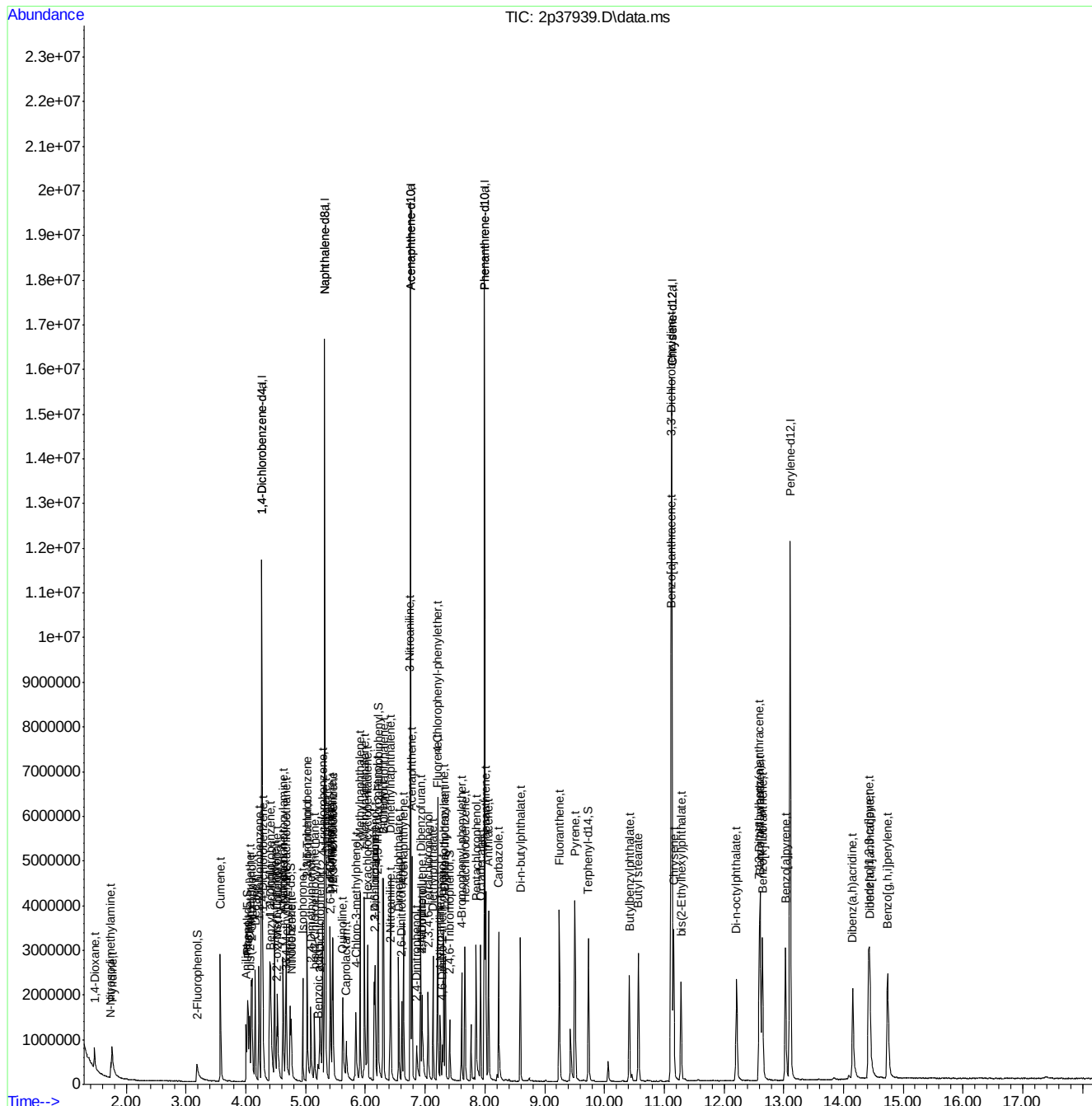
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) Di-n-butylphthalate	8.593	149	1885523	11.43	ppb	99
81) Fluoranthene	9.246	202	1801346	11.13	ppb	99
82) Octadecane	7.930	43	355332	10.81	ppb	95
84) Pyrene	9.508	202	1904033	10.37	ppb	98
86) Butylbenzylphthalate	10.417	149	841048	9.97	ppb	99
87) Butyl stearate	10.567	56	510267	10.30	ppb	99
88) Benzo[a]anthracene	11.112	228	1726636	10.02	ppb	99
89) 3,3'-Dichlorobenzidine	11.118	252	638620m	4.19	ppb	
90) Chrysene	11.160	228	1477847	9.69	ppb	99
91) bis(2-Ethylhexyl)phtha...	11.283	149	1112793	9.98	ppb	99
93) Di-n-octylphthalate	12.209	149	1934681	10.55	ppb	99
94) Benzo[b]fluoranthene	12.610	252	1742453	10.54	ppb	99
95) Benzo[k]fluoranthene	12.642	252	1637921	10.78	ppb	99
96) Benzo[a]pyrene	13.032	252	1476734	10.13	ppb	99
97) Indeno[1,2,3-cd]pyrene	14.423	276	1860765	10.35	ppb	99
98) Dibenz(a,h)acridine	14.156	279	1285705	9.92	ppb	98
99) Dibenz[a,h]anthracene	14.444	278	1467818	10.41	ppb	99
100) 7,12-Dimethylbenz(a)an...	12.594	256	695586	9.79	ppb	98
101) Benzo[g,h,i]perylene	14.739	276	1531731	10.26	ppb	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1583\
Data File : 2p37939.D
Acq On : 27 Jun 2014 2:29 pm
Operator : elwiraa
Sample : ic1583-10
Misc : op75638,e2p1583,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 30 16:17:52 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 27 15:12:27 2014
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: E2P1583-IC1583

Method: SW846 8270D

Lab FileID: 2P37939.D

Analyst approved: 07/01/14 12:35 Elwira Antonik

Injection Time: 06/27/14 14:29

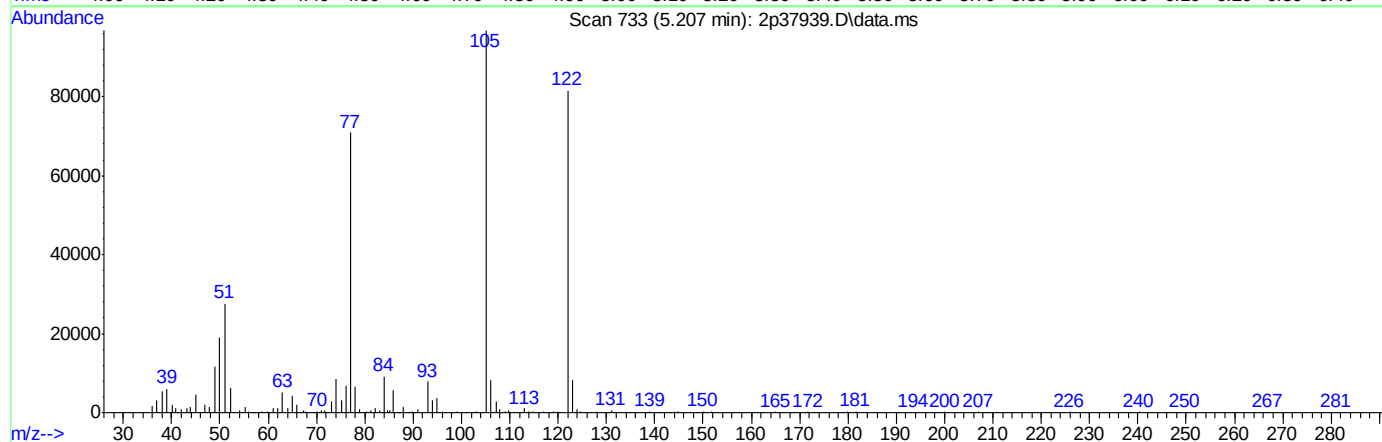
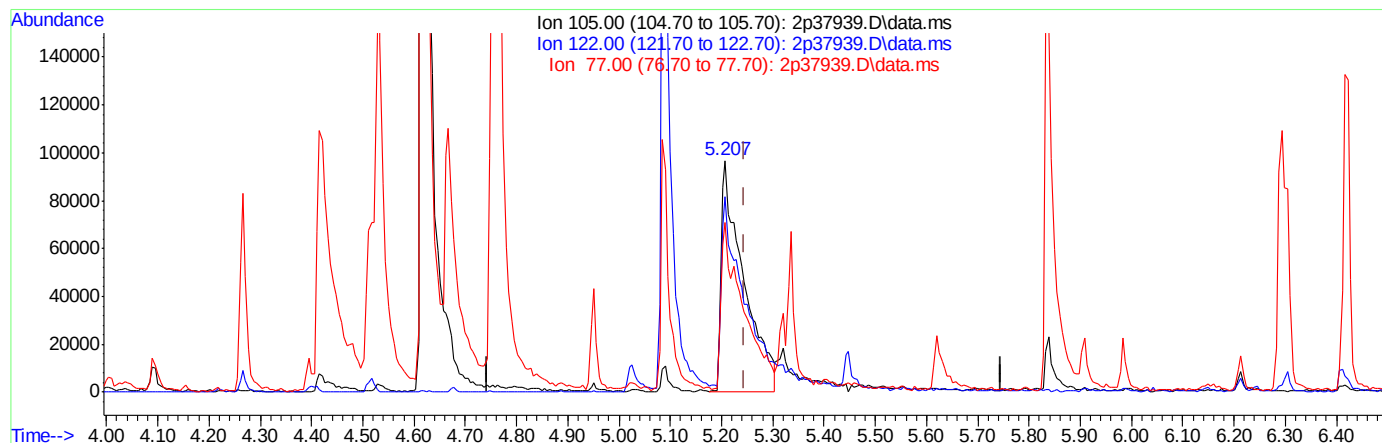
Supervisor approved: 07/02/14 17:06 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic acid	65-85-0		5.21	Poor instrument integration
3,3'-Dichlorobenzidine	91-94-1		11.12	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1583\
Data File : 2p37939.D
Acq On : 27 Jun 2014 2:29 pm
Operator : elwiraa
Sample : ic1583-10
Misc : op75638,e2p1583,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 27 15:15:34 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 27 15:12:27 2014
Response via : Initial Calibration



(31) Benzoic acid (t)

5.207min (-0.037) 8.57ppb

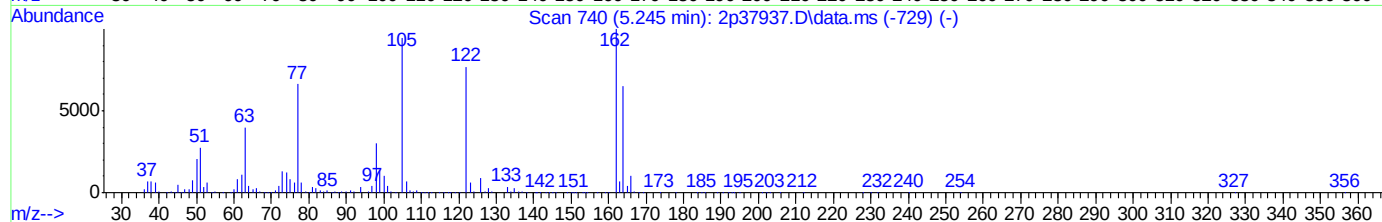
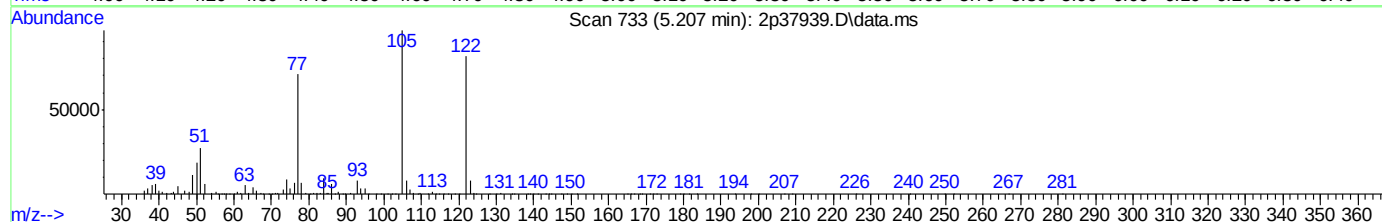
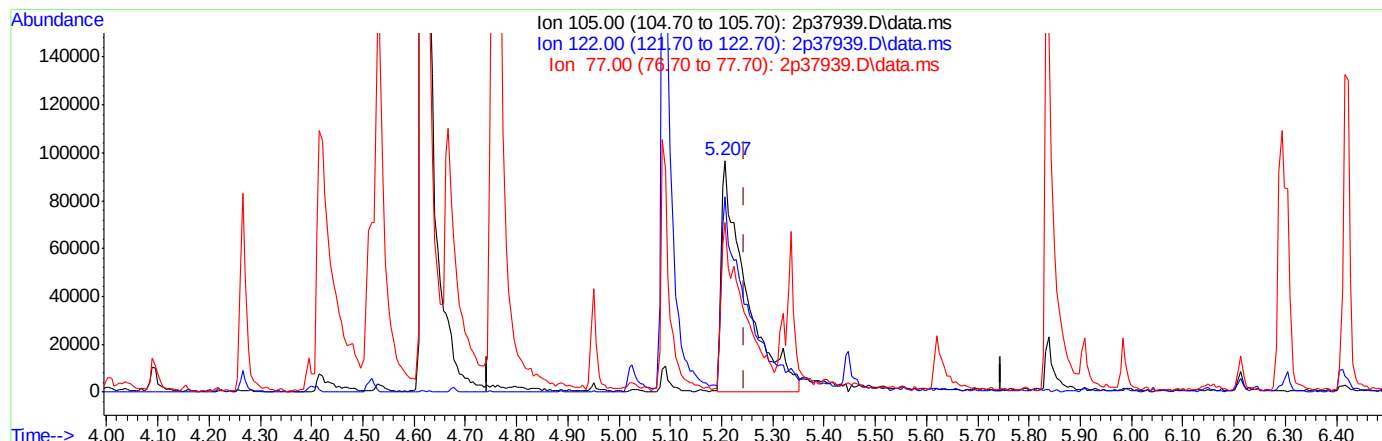
response 287845

Ion	Exp%	Act%
105.00	100	100
122.00	78.20	81.95
77.00	69.40	72.84
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1583\
Data File : 2p37939.D
Acq On : 27 Jun 2014 2:29 pm
Operator : elwiraa
Sample : ic1583-10
Misc : op75638,e2p1583,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 27 15:21:16 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 27 15:12:27 2014
Response via : Initial Calibration



TIC: 2p37939.D\data.ms

(31) Benzoic acid (t)

5.207min (-0.037) 9.54ppb m

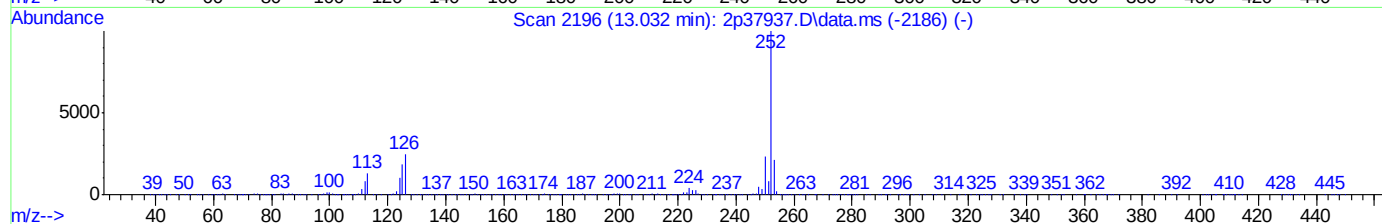
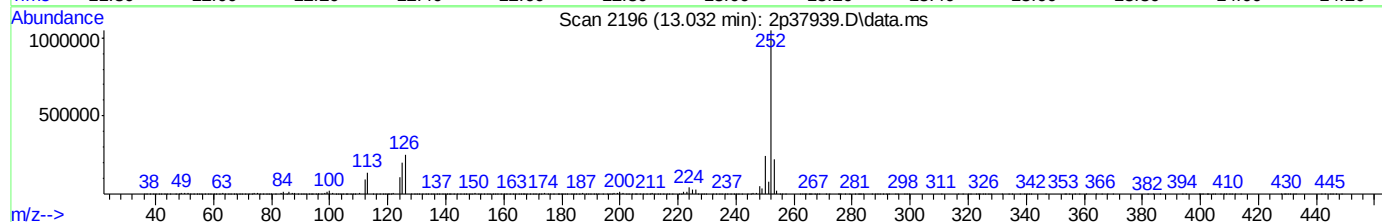
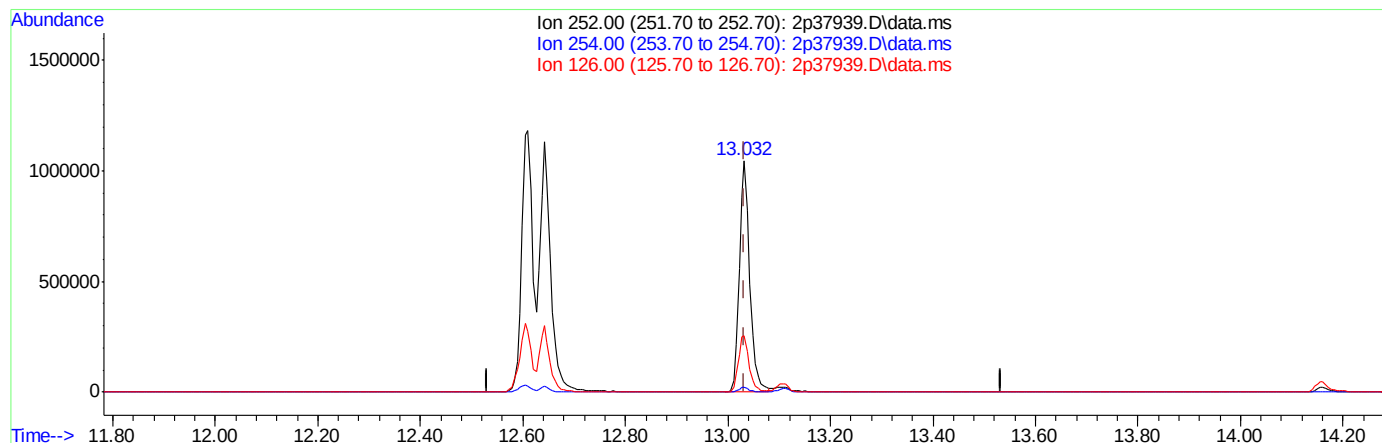
response 320490

Ion	Exp%	Act%
105.00	100	100
122.00	78.20	84.24
77.00	69.40	73.27
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1583\
Data File : 2p37939.D
Acq On : 27 Jun 2014 2:29 pm
Operator : elwiraa
Sample : ic1583-10
Misc : op75638,e2p1583,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 27 15:21:16 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 27 15:12:27 2014
Response via : Initial Calibration



TIC: 2p37939.D\data.ms

(89) 3,3'-Dichlorobenzidine (t)

13.032min (-0.000) 9.69ppb

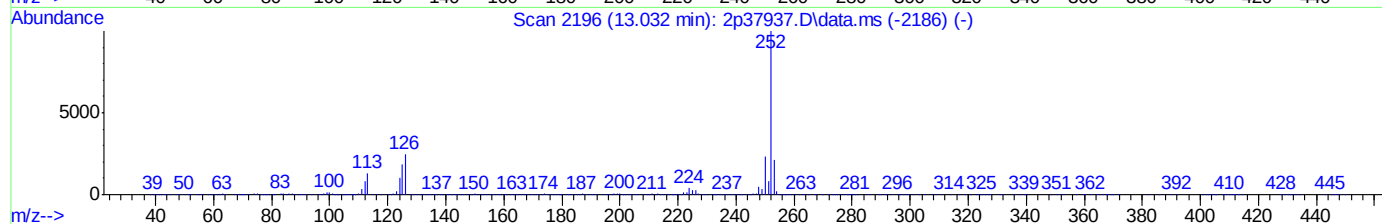
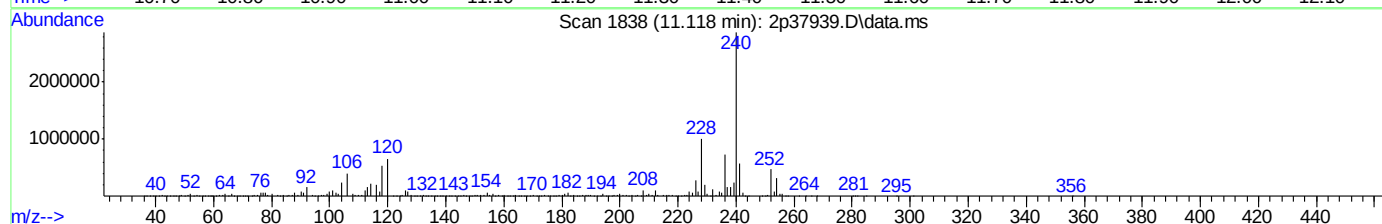
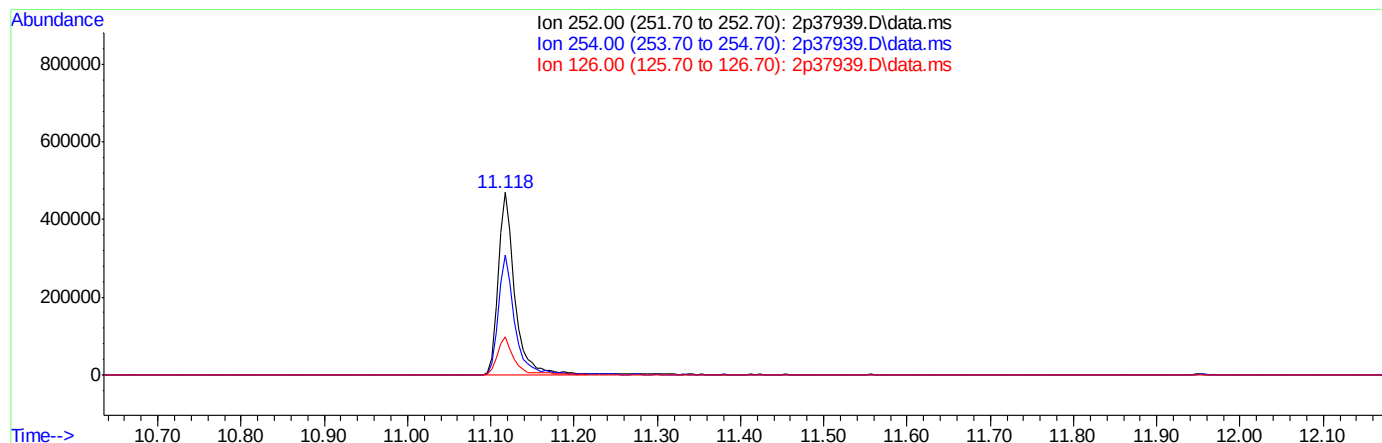
response 1476724

Ion	Exp%	Act%
252.00	100	100
254.00	2.30	2.12
126.00	24.70	24.14
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1583\
Data File : 2p37939.D
Acq On : 27 Jun 2014 2:29 pm
Operator : elwiraa
Sample : ic1583-10
Misc : op75638,e2p1583,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 27 15:21:16 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 27 15:12:27 2014
Response via : Initial Calibration



TIC: 2p37939.D\data.ms

(89) 3,3'-Dichlorobenzidine (t)

11.118min (-1.915) 4.19ppb m

response 638620

Ion	Exp%	Act%
252.00	100	100
254.00	2.30	66.01#
126.00	24.70	20.76
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1583\
 Data File : 2p37940.D
 Acq On : 27 Jun 2014 2:52 pm
 Operator : elwiraa
 Sample : ic1583-5
 Misc : op75638,e2p1583,
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 02 16:51:16 2014
 Quant Method : C:\msdchem\1\METHODS\M2P1583.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Wed Jul 02 14:01:58 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.266	152	1468025	40.00	ppb	0.00
24) Naphthalene-d8	5.320	136	5344982	40.00	ppb	0.00
47) Acenaphthene-d10	6.753	164	2883791	40.00	ppb	0.00
69) Phenanthrene-d10	7.989	188	4965847	40.00	ppb	0.00
83) Chrysene-d12	11.118	240	5131613	40.00	ppb	0.00
92) Perylene-d12	13.102	264	4755768	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	4.266	152	1468025	40.00	ppb	0.00
104) Acenaphthene-d10a	6.753	164	2883791	40.00	ppb	0.00
107) Chrysene-d12a	11.118	240	5131613	40.00	ppb	0.00
110) Phenanthrene-d10a	7.989	188	4965847	40.00	ppb	0.00
112) Naphthalene-d8a	5.320	136	5344982	40.00	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol	3.207	112	190609m	4.65	ppb	0.04
Spiked Amount 50.000	Range 11 - 58		Recovery =	9.30%#		
8) Phenol-d5	4.036	99	238824	4.84	ppb	0.01
Spiked Amount 50.000	Range 10 - 59		Recovery =	9.68%		
25) Nitrobenzene-d5	4.747	82	224639	5.11	ppb	0.00
Spiked Amount 50.000	Range 19 - 61		Recovery =	10.22%#		
51) 2-Fluorobiphenyl	6.213	172	484798	5.54	ppb	0.00
Spiked Amount 50.000	Range 21 - 58		Recovery =	11.08%#		
73) 2,4,6-Tribromophenol	7.411	330	69193	4.91	ppb	0.00
Spiked Amount 50.000	Range 12 - 68		Recovery =	9.82%#		
85) Terphenyl-d14	9.732	244	501434	4.88	ppb	0.00
Spiked Amount 50.000	Range 16 - 65		Recovery =	9.76%#		
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	1.463	88	92596	4.64	ppb	95
3) Pyridine	1.779	79	225021	4.72	ppb	98
4) N-Nitrosodimethylamine	1.757	74	93311	4.29	ppb	95
6) Indene	4.480	116	384896	5.17	ppb	97
7) Cumene	3.576	105	522834	4.94	ppb	99
9) Phenol	4.047	94	299908	5.29	ppb	93
10) Aniline	4.009	93	307214	5.29	ppb	88
11) bis(2-Chloroethyl)ether	4.068	93	213623	5.45	ppb	94
12) 2-Chlorophenol	4.111	128	253181	5.28	ppb	96
13) Decane	4.154	57	186375	5.12	ppb	99
14) 1,3-Dichlorobenzene	4.218	146	286890	5.20	ppb	97
15) 1,4-Dichlorobenzene	4.282	146	292062	5.17	ppb	95
16) Benzyl alcohol	4.432	108	123058	4.79	ppb	# 67
17) 1,2-Dichlorobenzene	4.410	146	268946	5.20	ppb	100
18) Acetophenone	4.624	105	307107	4.99	ppb	93
19) 2-Methylphenol	4.533	108	209109	5.10	ppb	97
20) 2,2'-oxybis(1-Chloropr...	4.512	121	53800	5.10	ppb	94
21) 3&4-Methylphenol	4.678	108	213511	4.89	ppb	97
22) n-Nitroso-di-n-propyla...	4.624	70	136046	5.02	ppb	98
23) Hexachloroethane	4.678	201	105484	5.05	ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1583\
 Data File : 2p37940.D
 Acq On : 27 Jun 2014 2:52 pm
 Operator : elwiraa
 Sample : ic1583-5
 Misc : op75638,e2p1583,
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 02 16:51:16 2014
 Quant Method : C:\msdchem\1\METHODS\M2P1583.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Wed Jul 02 14:01:58 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Nitrobenzene	4.763	77	234167	5.08	ppb	98
27) Quinoline	5.625	129	455433	4.85	ppb	99
28) Isophorone	4.951	82	371862	4.97	ppb	99
29) 2-Nitrophenol	5.031	139	130055	5.22	ppb	87
30) 2,4-Dimethylphenol	5.090	107	172452	4.61	ppb	99
31) Benzoic acid	5.229	105	83157	2.58	ppb	87
32) bis(2-Chloroethoxy)met...	5.148	93	230026	5.08	ppb	99
33) 2,4-Dichlorophenol	5.250	162	181186	4.85	ppb	96
34) 2,6-Dichlorophenol	5.411	162	186954	5.06	ppb	96
35) 1,3,5-Trichlorobenzene	5.025	180	245790	5.18	ppb	98
36) 1,2,4-Trichlorobenzene	5.282	180	232670	5.18	ppb	99
37) 1,2,3-Trichlorobenzene	5.464	180	228091	5.22	ppb	94
38) Naphthalene	5.336	128	655607	5.33	ppb	99
39) 4-Chloroaniline	5.411	127	285620	5.11	ppb	95
40) 2,3-Dichloroaniline	6.149	161	251926	5.06	ppb	97
41) Caprolactam	5.678	113	52113	4.42	ppb	97
42) Hexachlorobutadiene	5.448	225	128819	5.03	ppb	97
43) 4-Chloro-3-methylphenol	5.838	107	175301	4.82	ppb	94
44) 2-Methylnaphthalene	5.908	141	397697	5.12	ppb	95
45) 1-Methylnaphthalene	5.983	141	400303	4.94	ppb	99
46) Dimethylnaphthalene	6.421	156	381629	5.04	ppb	99
48) Hexachlorocyclopentadiene	6.036	237	113644	9.96	ppb	97
49) 2,4,6-Trichlorophenol	6.165	196	129778	5.17	ppb	98
50) 2,4,5-Trichlorophenol	6.213	196	156484	5.27	ppb	95
52) 2-Chloronaphthalene	6.304	162	426472	5.36	ppb	98
53) Biphenyl	6.293	154	541504	5.42	ppb	98
54) 2-Nitroaniline	6.416	65	113014	5.15	ppb	83
55) Dimethylphthalate	6.555	163	463927	5.17	ppb	99
56) Acenaphthylene	6.635	152	695854	5.51	ppb	98
57) 2,6-Dinitrotoluene	6.609	165	102339	5.12	ppb	97
58) 3-Nitroaniline	6.753	138	113744	4.88	ppb	# 56
59) Acenaphthene	6.780	153	418681	5.23	ppb	99
60) 2,4-Dinitrophenol	6.871	184	53477	11.85	ppb	95
61) 4-Nitrophenol	6.967	109	33555m	3.79	ppb	
62) Dibenzofuran	6.924	168	594019	5.39	ppb	99
63) 2,4-Dinitrotoluene	6.951	165	136540	5.16	ppb	77
64) 2,3,4,6-Tetrachlorophenol	7.053	232	109895	4.72	ppb	97
65) Diethylphthalate	7.127	149	462537	5.14	ppb	99
66) Fluorene	7.202	166	458609	5.30	ppb	98
67) 4-Chlorophenyl-phenyle...	7.208	204	218455	5.40	ppb	100
68) 4-Nitroaniline	7.256	138	118453	5.22	ppb	96
70) 4,6-Dinitro-2-methylph...	7.293	198	49921	3.62	ppb	95
71) n-Nitrosodiphenylamine	7.309	169	309570	5.24	ppb	97
72) 1,2-Diphenylhydrazine	7.336	77	448332	5.38	ppb	95
74) 4-Bromophenyl-phenylether	7.609	248	128465	4.90	ppb	96
75) Hexachlorobenzene	7.668	284	165301	5.04	ppb	98
76) Pentachlorophenol	7.850	266	124609	7.99	ppb	98
77) Phenanthrene	8.010	178	636182	5.29	ppb	99
78) Anthracene	8.058	178	640302	5.21	ppb	98
79) Carbazole	8.229	167	651542	5.29	ppb	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1583\
 Data File : 2p37940.D
 Acq On : 27 Jun 2014 2:52 pm
 Operator : elwiraa
 Sample : ic1583-5
 Misc : op75638,e2p1583,
 ALS Vial : 9 Sample Multiplier: 1

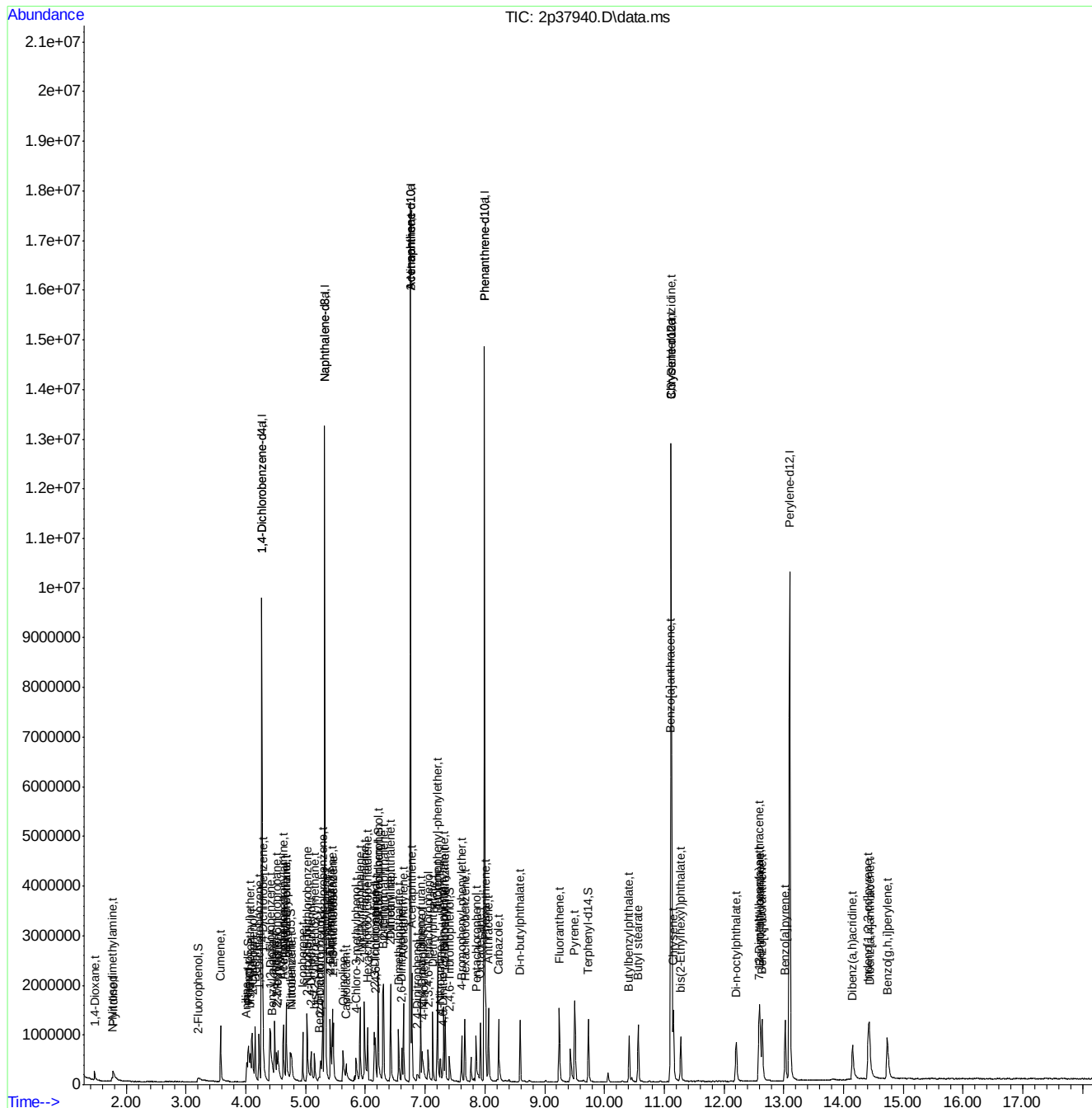
Quant Time: Jul 02 16:51:16 2014
 Quant Method : C:\msdchem\1\METHODS\M2P1583.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Wed Jul 02 14:01:58 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) Di-n-butylphthalate	8.588	149	771908	5.31	ppb	98
81) Fluoranthene	9.240	202	744657	5.25	ppb	98
82) Octadecane	7.924	43	154255	5.36	ppb	95
84) Pyrene	9.502	202	810643	5.19	ppb	99
86) Butylbenzylphthalate	10.412	149	329656	4.69	ppb	97
87) Butyl stearate	10.567	56	209401	5.00	ppb	97
88) Benzo[a]anthracene	11.107	228	709583	4.90	ppb	99
89) 3,3'-Dichlorobenzidine	11.118	252	257239m	4.90	ppb	
90) Chrysene	11.155	228	629972	4.94	ppb	100
91) bis(2-Ethylhexyl)phtha...	11.278	149	429875	4.63	ppb	99
93) Di-n-octylphthalate	12.203	149	722823	4.73	ppb	98
94) Benzo[b]fluoranthene	12.604	252	707484	5.08	ppb	98
95) Benzo[k]fluoranthene	12.637	252	715705	5.50	ppb	99
96) Benzo[a]pyrene	13.027	252	603125	4.96	ppb	98
97) Indeno[1,2,3-cd]pyrene	14.418	276	737098	4.91	ppb	98
98) Dibenz(a,h)acridine	14.150	279	488192	4.58	ppb	100
99) Dibenz[a,h]anthracene	14.439	278	583508	4.94	ppb	96
100) 7,12-Dimethylbenz(a)an...	12.583	256	258902	4.45	ppb	96
101) Benzo[g,h,i]perylene	14.739	276	603755	4.85	ppb	95

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

Data Path : C:\msdchem\1\DATA\2P1583\
Data File : 2p37940.D
Acq On : 27 Jun 2014 2:52 pm
Operator : elwiraa
Sample : ic1583-5
Misc : op75638,e2p1583,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 02 16:51:16 2014
Quant Method : C:\msdchem\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 02 14:01:58 2014
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: E2P1583-IC1583

Method: SW846 8270D

Lab FileID: 2P37940.D

Analyst approved: 07/02/14 17:03 Harpreet Kaur

Injection Time: 06/27/14 14:52

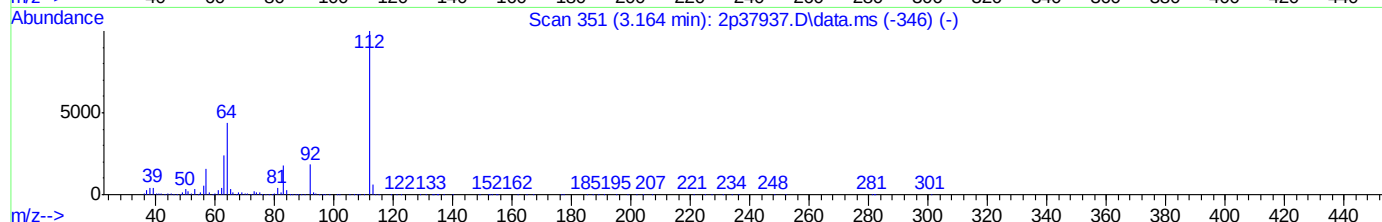
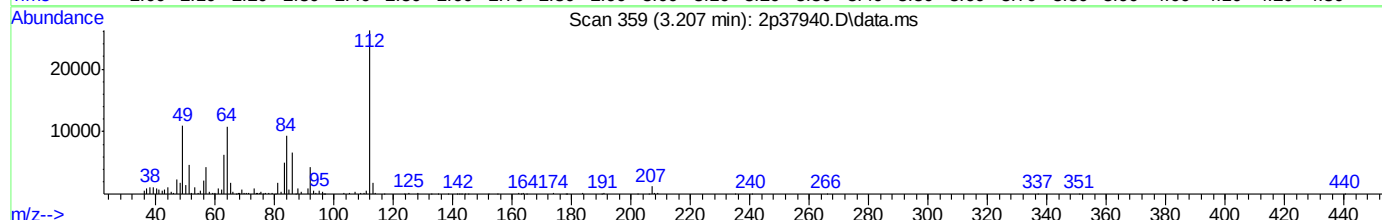
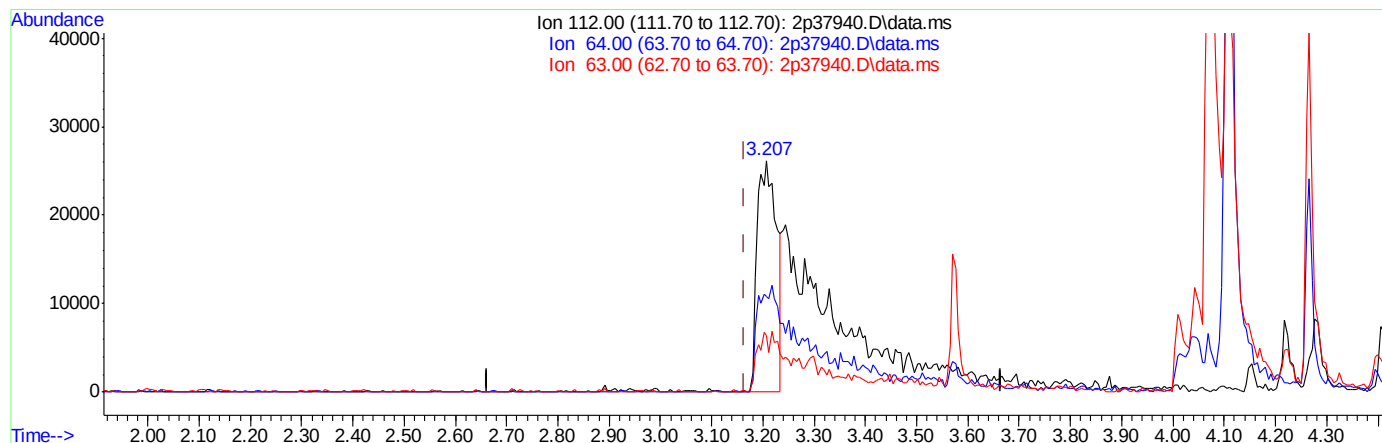
Supervisor approved: 07/02/14 17:06 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
2-Fluorophenol	367-12-4		3.21	Poor instrument integration
4-Nitrophenol	100-02-7		6.97	Poor instrument integration
3,3'-Dichlorobenzidine	91-94-1		11.12	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1583\
Data File : 2p37940.D
Acq On : 27 Jun 2014 2:52 pm
Operator : elwiraa
Sample : ic1583-5
Misc : op75638,e2p1583,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 27 15:16:13 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 27 15:15:55 2014
Response via : Initial Calibration



TIC: 2p37940.D\data.ms

(5) 2-Fluorophenol (S)

3.207min (+0.043) 1.86ppb

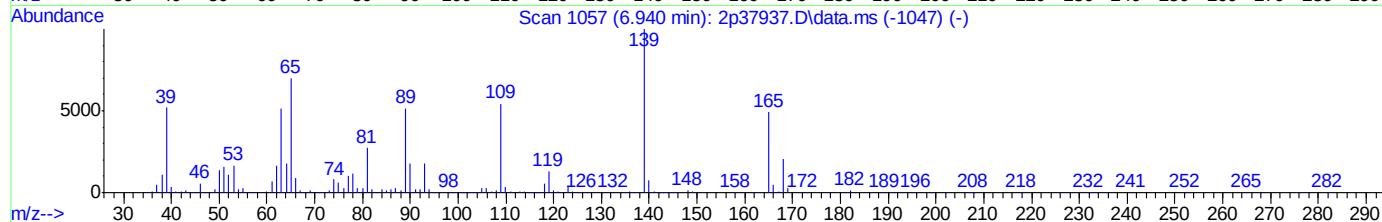
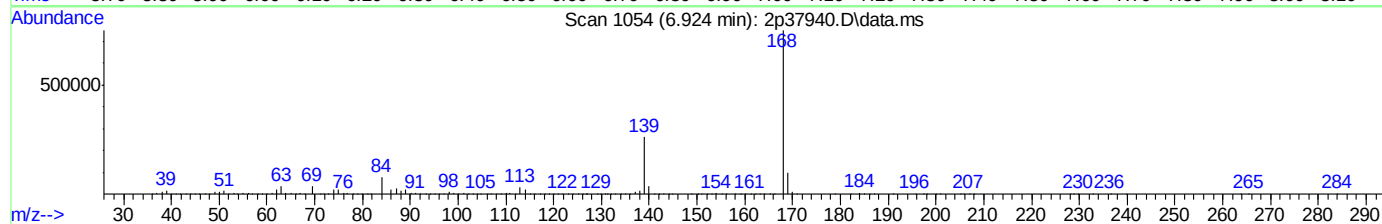
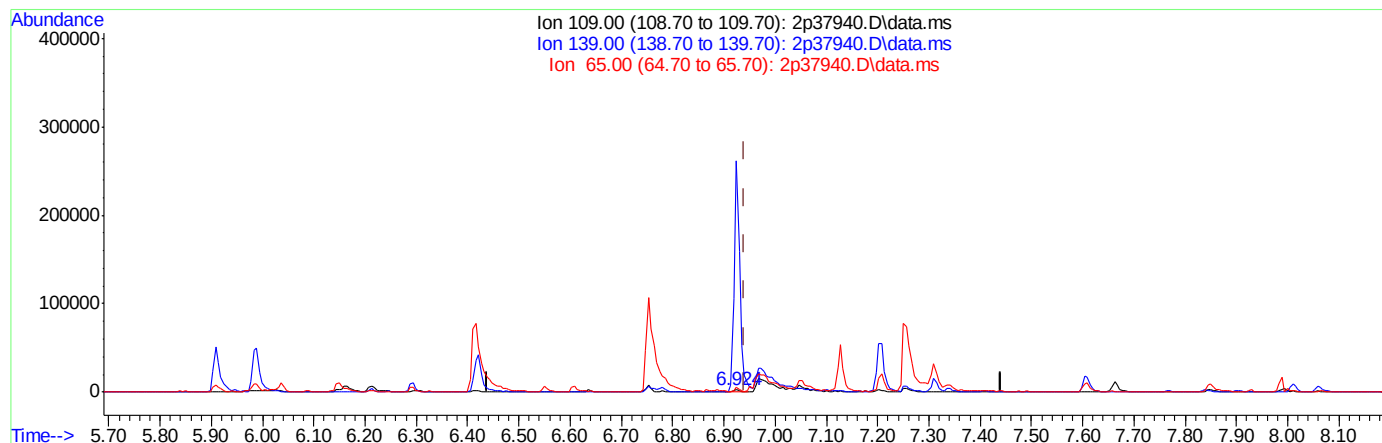
response 68955

Ion	Exp%	Act%
112.00	100	100
64.00	43.50	40.15
63.00	23.70	23.71
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1583\
Data File : 2p37940.D
Acq On : 27 Jun 2014 2:52 pm
Operator : elwiraa
Sample : ic1583-5
Misc : op75638,e2p1583,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 27 15:16:13 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 27 15:15:55 2014
Response via : Initial Calibration



TIC: 2p37940.D\data.ms

(61) 4-Nitrophenol (t)

6.924min (-0.016) 0.22ppb

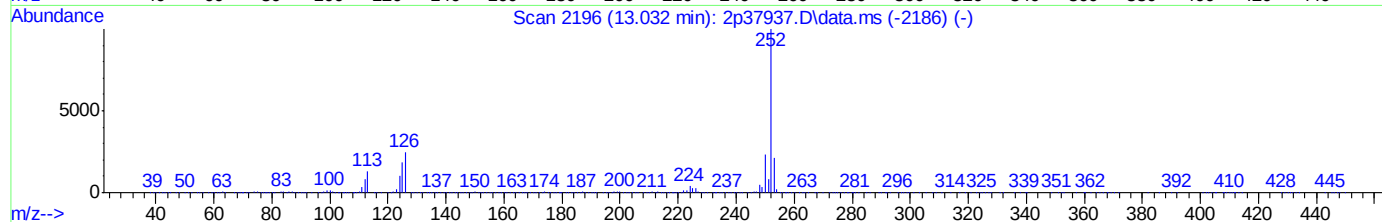
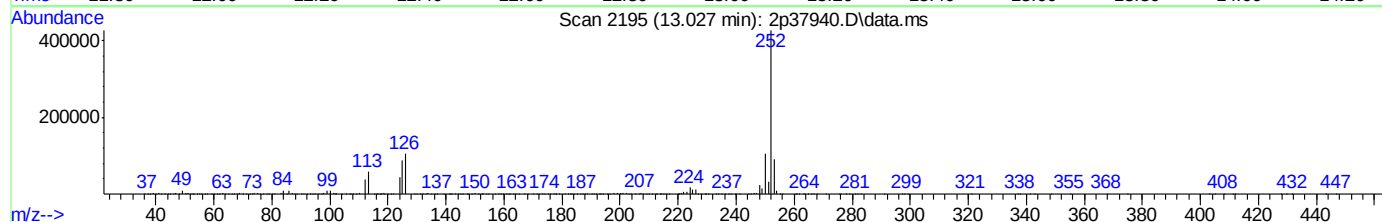
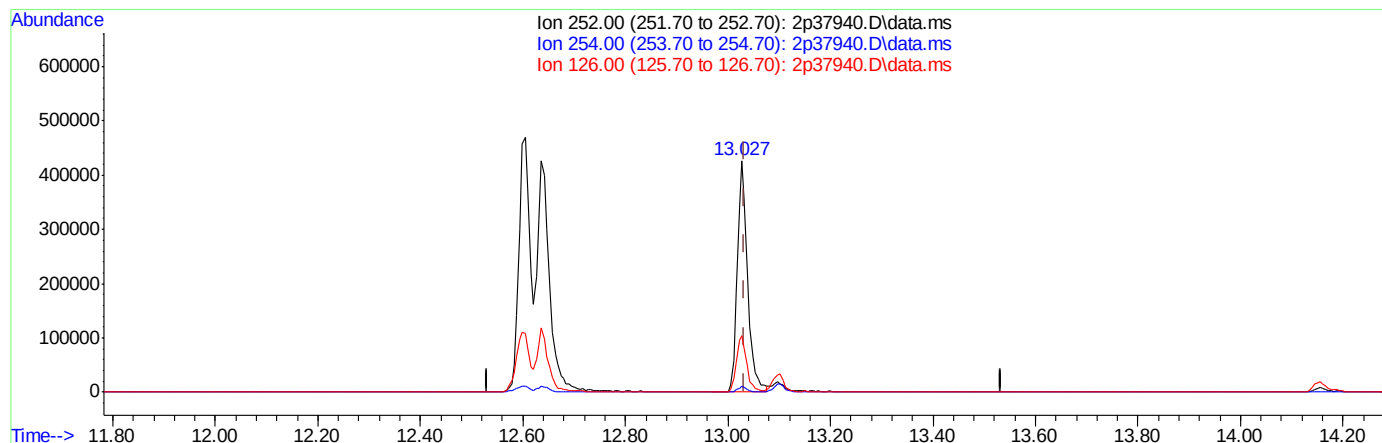
response 2053

Ion	Exp%	Act%
109.00	100	100
139.00	183.70	10425.09#
65.00	129.40	131.95
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1583\
Data File : 2p37940.D
Acq On : 27 Jun 2014 2:52 pm
Operator : elwiraa
Sample : ic1583-5
Misc : op75638,e2p1583,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 30 11:31:36 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 30 08:35:13 2014
Response via : Initial Calibration



TIC: 2p37940.D\data.ms

(89) 3,3'-Dichlorobenzidine (t)

13.027min (-0.005) 4.76ppb

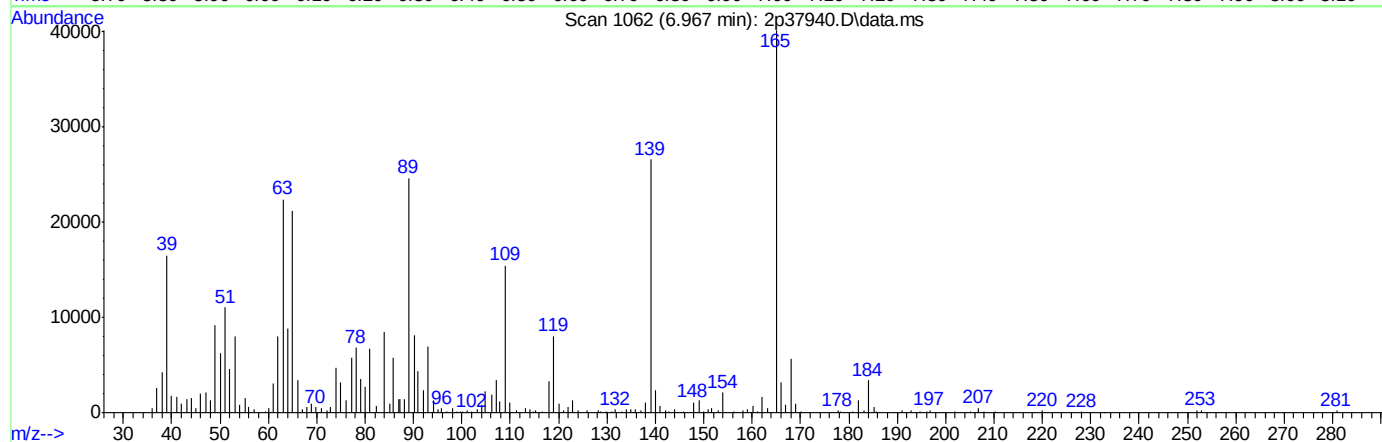
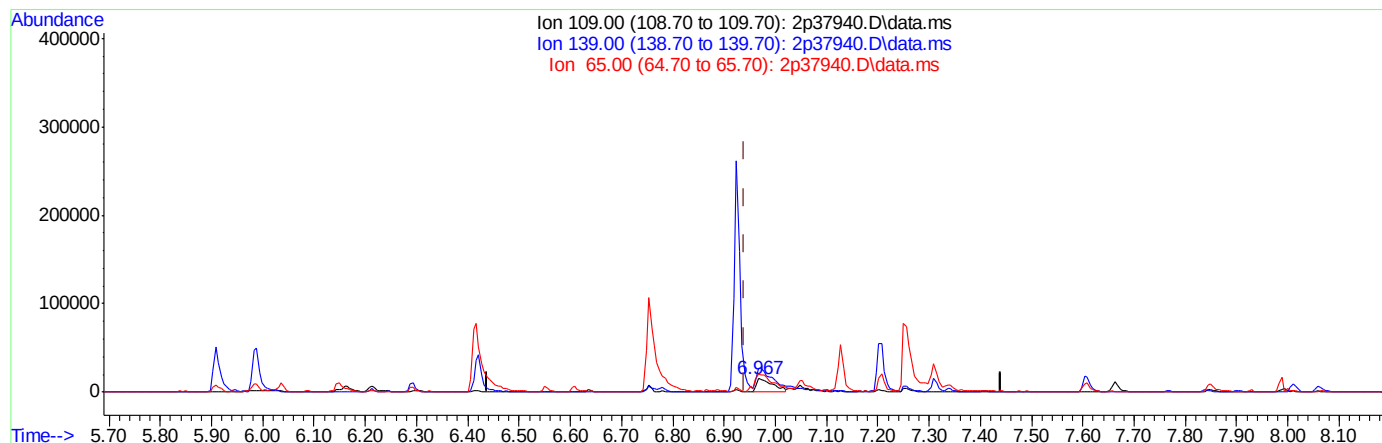
response 603125

Ion	Exp%	Act%
252.00	100	100
254.00	2.30	2.36
126.00	24.70	24.10
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1583\
Data File : 2p37940.D
Acq On : 27 Jun 2014 2:52 pm
Operator : elwiraa
Sample : ic1583-5
Misc : op75638,e2p1583,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 02 14:10:16 2014
Quant Method : C:\msdchem\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 02 14:01:58 2014
Response via : Initial Calibration



(61) 4-Nitrophenol (t)

6.967min (+0.027) 3.79ppb m

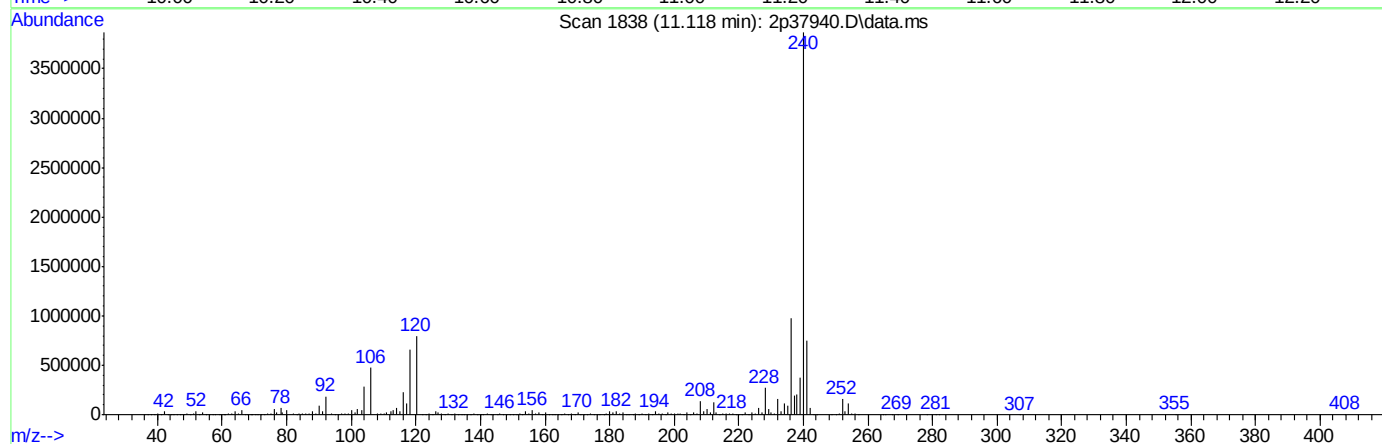
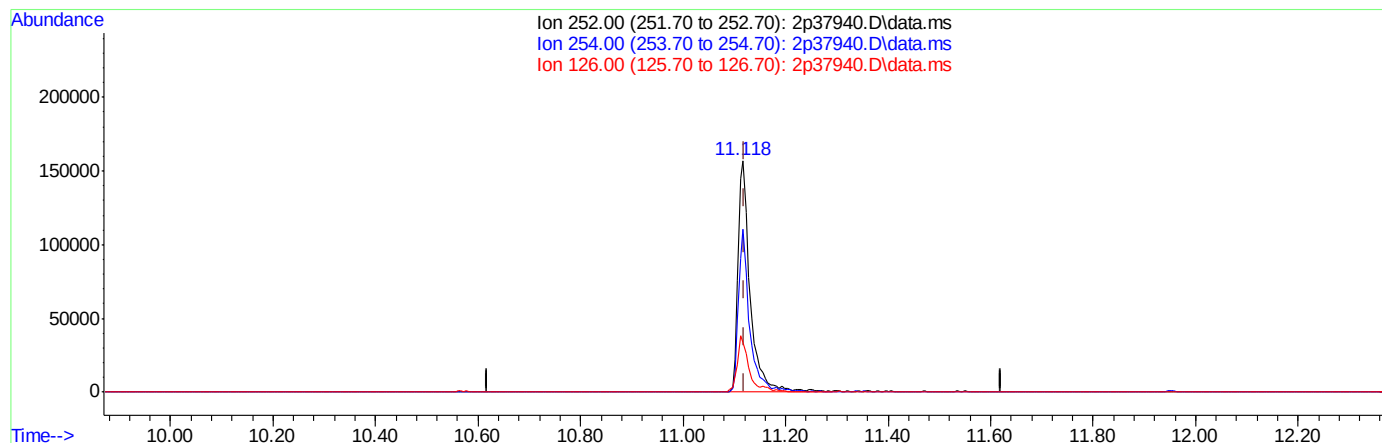
response 33555

Ion	Exp%	Act%
109.00	100	100
139.00	183.70	172.24
65.00	129.40	137.08
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1583\
Data File : 2p37940.D
Acq On : 27 Jun 2014 2:52 pm
Operator : elwiraa
Sample : ic1583-5
Misc : op75638,e2p1583,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 02 14:10:16 2014
Quant Method : C:\msdchem\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 02 14:01:58 2014
Response via : Initial Calibration



TIC: 2p37940.D\data.ms

(89) 3,3'-Dichlorobenzidine (t)

11.118min (-0.002) 4.90ppb m

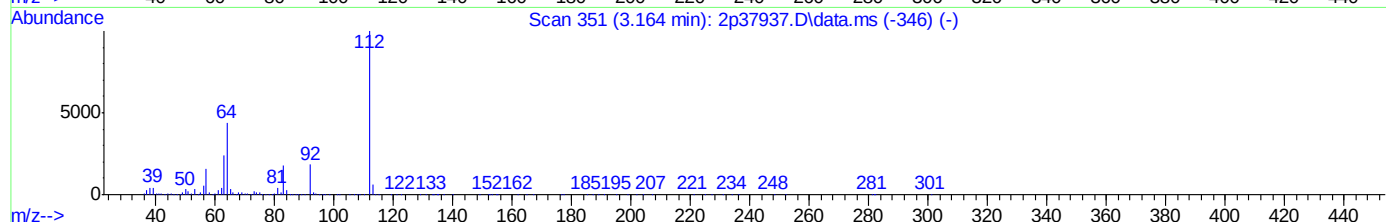
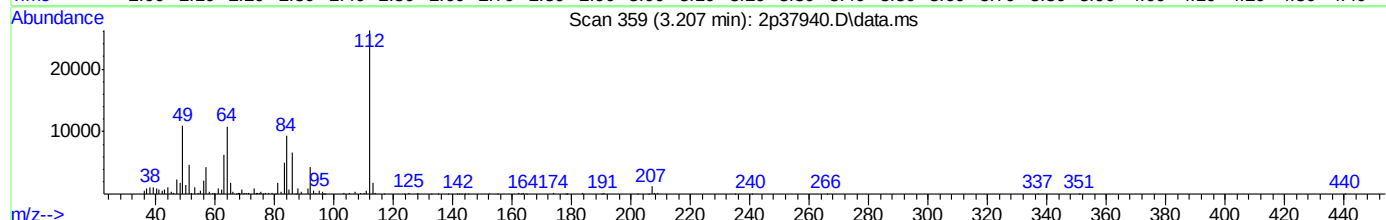
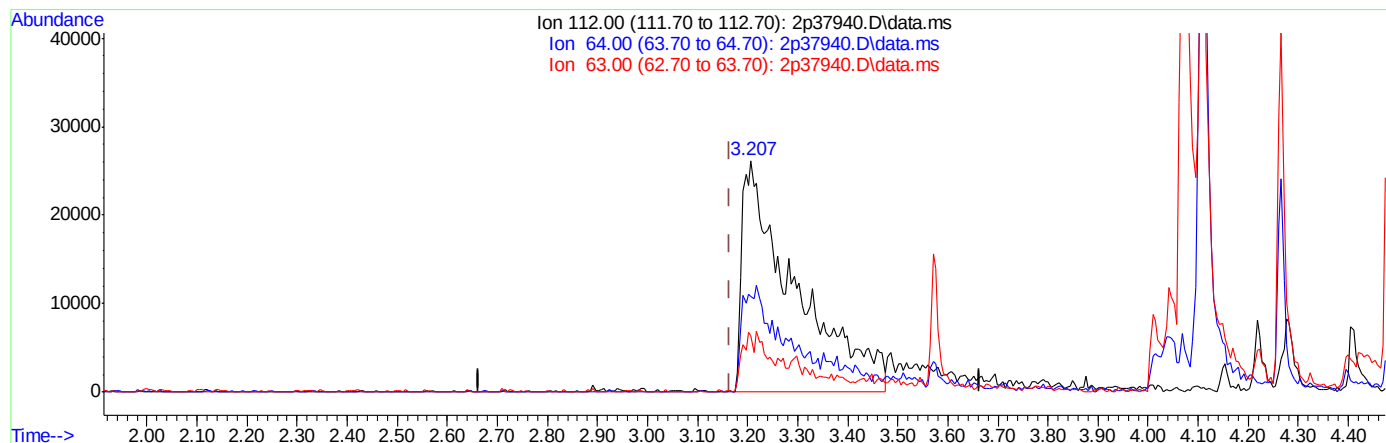
response 257239

Ion	Exp%	Act%
252.00	100	100
254.00	2.30	70.20#
126.00	24.70	21.63
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1583\
Data File : 2p37940.D
Acq On : 27 Jun 2014 2:52 pm
Operator : elwiraa
Sample : ic1583-5
Misc : op75638,e2p1583,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 02 16:51:16 2014
Quant Method : C:\msdchem\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 02 14:01:58 2014
Response via : Initial Calibration



TIC: 2p37940.D\data.ms

(5) 2-Fluorophenol (S)

3.207min (+0.043) 4.65ppb m

response 190609

Ion	Exp%	Act%
112.00	100	100
64.00	43.50	41.31
63.00	23.70	24.34
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1583\
 Data File : 2p37942.D
 Acq On : 27 Jun 2014 3:40 pm
 Operator : elwiraa
 Sample : ic1584-100
 Misc : op75638,e2p1584,
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 30 07:49:50 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Mon Jun 30 07:47:28 2014
 Response via : Initial Calibration

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

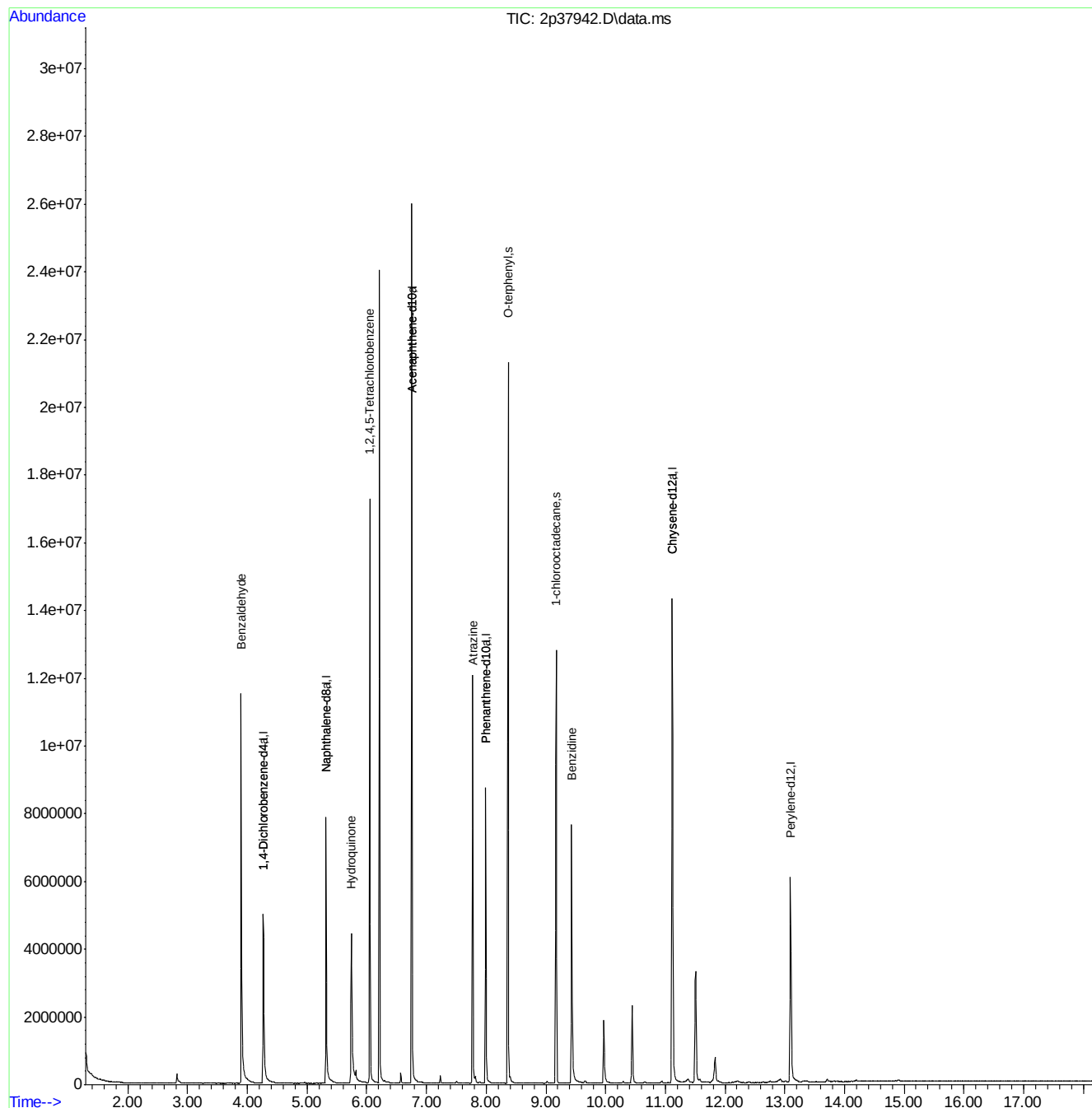
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.266	152	947312	40.00	ppb	0.00
24) Naphthalene-d8	5.320	136	3684262	40.00	ppb	0.00
47) Acenaphthene-d10	6.758	164	1708043	40.00	ppb	0.00
69) Phenanthrene-d10	7.989	188	3098898	40.00	ppb	0.00
83) Chrysene-d12	11.118	240	3143794	40.00	ppb	0.00
92) Perylene-d12	13.102	264	2877291	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	4.266	152	947312	40.00	ppb	0.00
104) Acenaphthene-d10a	6.758	164	1708043	40.00	ppb	0.00
107) Chrysene-d12a	11.118	240	3143794	40.00	ppb	0.00
110) Phenanthrene-d10a	7.989	188	3098898	40.00	ppb	0.00
112) Naphthalene-d8a	5.320	136	3684262	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	0d	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	9.171	57	1836548	100.10	ppb	0.00
111) O-terphenyl	8.368	230	4095187	97.48	ppb	0.00
Target Compounds						Qvalue
103) Benzaldehyde	3.897	105	2526253	99.95	ppb	99
105) Atrazine	7.780	215	727814	149.83	ppb	92
106) 1,2,4,5-Tetrachloroben...	6.052	216	2861118	100.33	ppb	97
109) Benzidine	9.433	184	3482055	64.18	ppb	100
113) Hydroquinone	5.742	110	3014185	98.87	ppb	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1583\
Data File : 2p37942.D
Acq On : 27 Jun 2014 3:40 pm
Operator : elwiraa
Sample : ic1584-100
Misc : op75638,e2p1584,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 30 07:49:50 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 30 07:47:28 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1583\
 Data File : 2p37943.D
 Acq On : 27 Jun 2014 4:02 pm
 Operator : elwiraa
 Sample : icc1584-50
 Misc : op75638,e2p1584,
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 30 07:44:29 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Mon Jun 30 07:43:18 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.266	152	831739	40.00	ppb	0.00
24) Naphthalene-d8	5.320	136	3191041	40.00	ppb	0.00
47) Acenaphthene-d10	6.753	164	1623513	40.00	ppb	0.00
69) Phenanthrene-d10	7.989	188	2815669	40.00	ppb	0.00
83) Chrysene-d12	11.118	240	2822163	40.00	ppb	0.00
92) Perylene-d12	13.091	264	2539903	40.00	ppb	-0.01
102) 1,4-Dichlorobenzene-d4a	4.266	152	831739	40.00	ppb	0.00
104) Acenaphthene-d10a	6.753	164	1623513	40.00	ppb	0.00
107) Chrysene-d12a	11.118	240	2822163	40.00	ppb	0.00
110) Phenanthrene-d10a	7.989	188	2815669	40.00	ppb	0.00
112) Naphthalene-d8a	5.320	136	3191041	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	0d	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	9.165	57	823512	49.88	ppb	0.00
111) O-terphenyl	8.363	230	1908613	50.00	ppb	0.00

Target Compounds

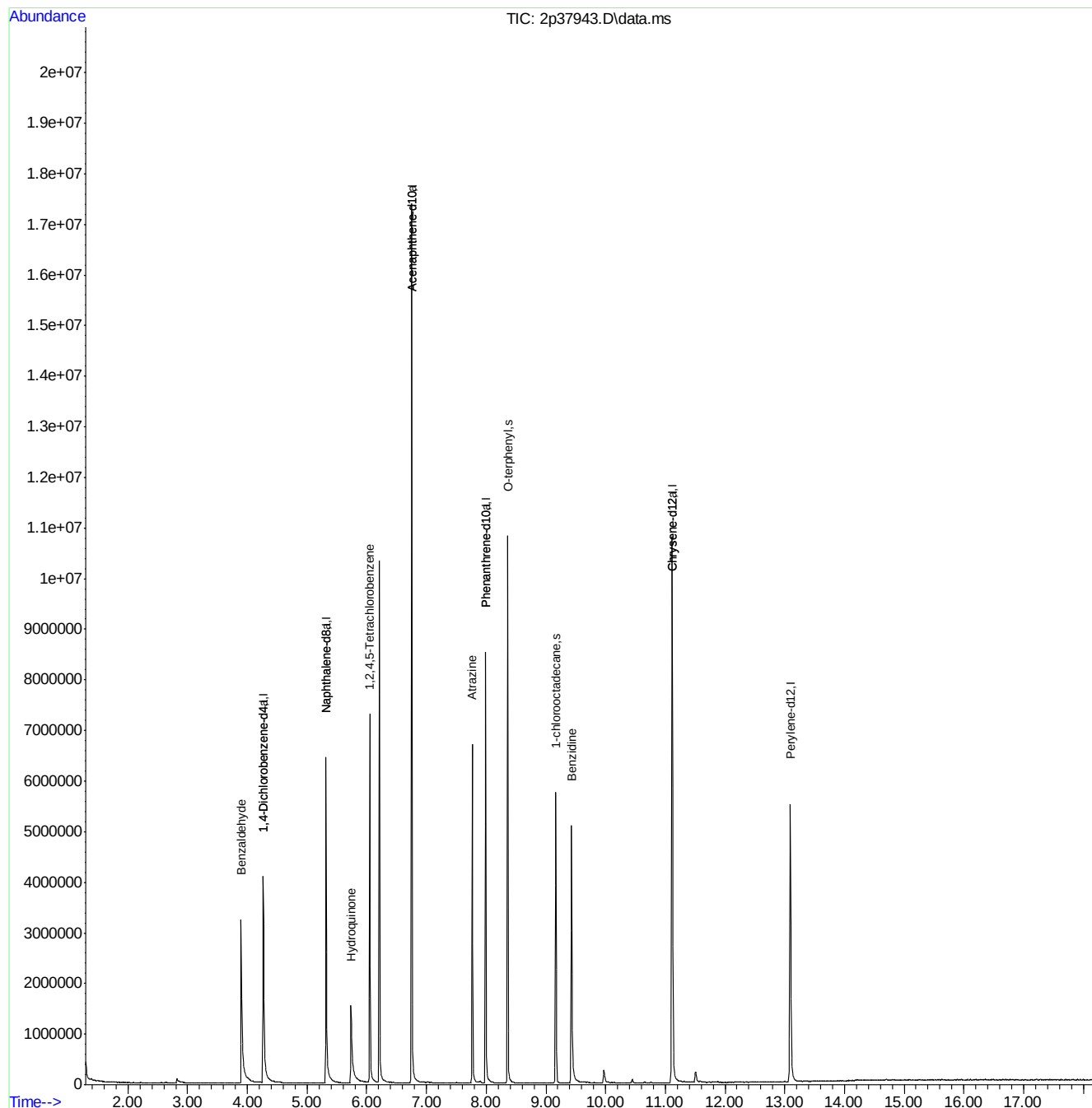
						Qvalue
103) Benzaldehyde	3.897	105	1109626	50.00	ppb	100
105) Atrazine	7.769	215	322122	69.77	ppb	100
106) 1,2,4,5-Tetrachloroben...	6.053	216	1355272	50.30	ppb	100
109) Benzidine	9.428	184	2435152	49.63	ppb	100
113) Hydroquinone	5.737	110	1320198	48.78	ppb	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1583\
Data File : 2p37943.D
Acq On : 27 Jun 2014 4:02 pm
Operator : elwiraa
Sample : icc1584-50
Misc : op75638,e2p1584,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 30 07:44:29 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 30 07:43:18 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1583\
 Data File : 2p37944.D
 Acq On : 27 Jun 2014 4:25 pm
 Operator : elwiraa
 Sample : ic1584-25
 Misc : op75638,e2p1584,
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 30 07:51:01 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Mon Jun 30 07:47:28 2014
 Response via : Initial Calibration

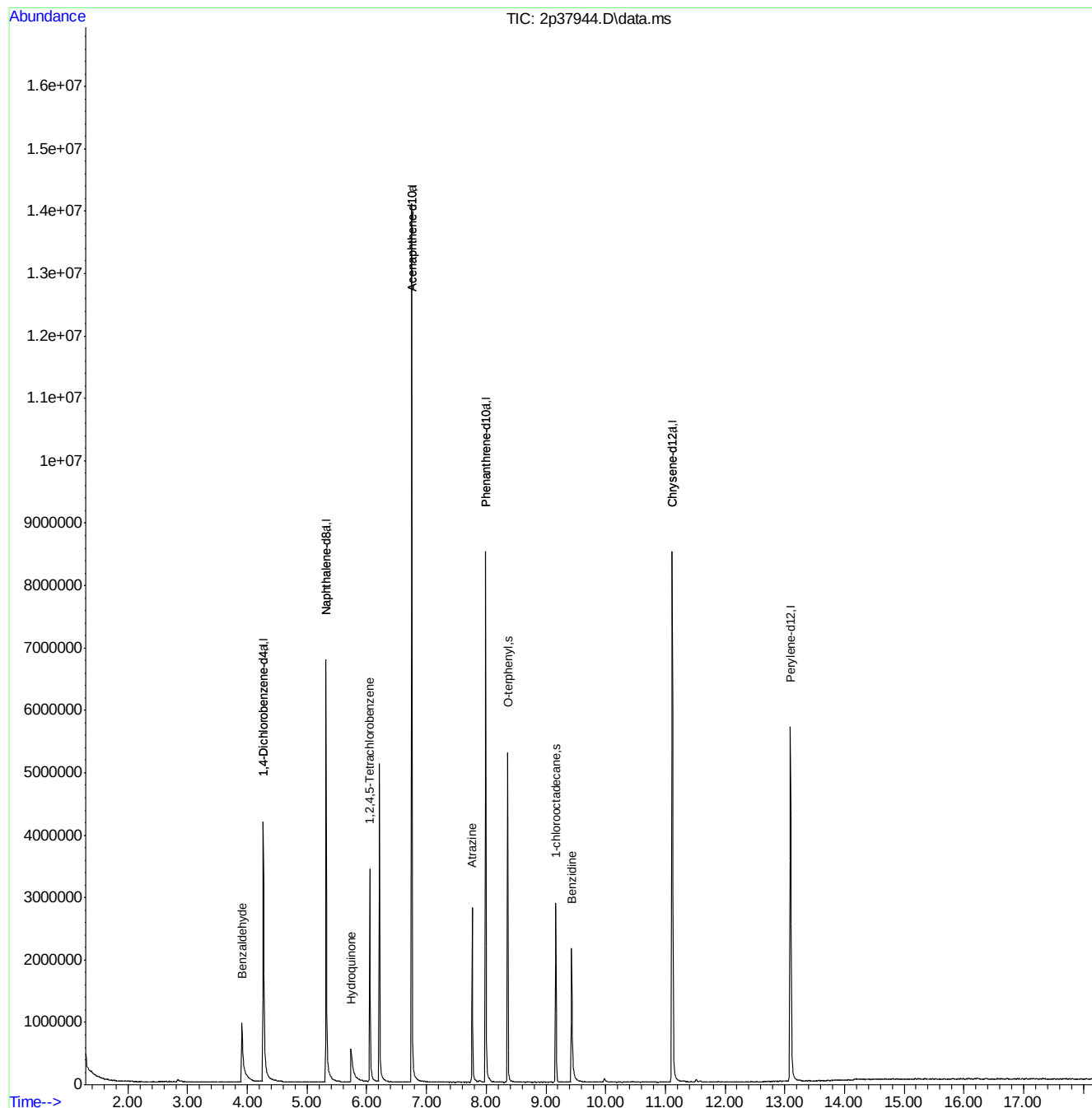
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.266	152	855478	40.00	ppb	0.00
24) Naphthalene-d8	5.320	136	3257220	40.00	ppb	0.00
47) Acenaphthene-d10	6.753	164	1692535	40.00	ppb	0.00
69) Phenanthrene-d10	7.989	188	2912182	40.00	ppb	0.00
83) Chrysene-d12	11.117	240	2948461	40.00	ppb	0.00
92) Perylene-d12	13.096	264	2686097	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	4.266	152	855478	40.00	ppb	0.00
104) Acenaphthene-d10a	6.753	164	1692535	40.00	ppb	0.00
107) Chrysene-d12a	11.117	240	2948461	40.00	ppb	0.00
110) Phenanthrene-d10a	7.989	188	2912182	40.00	ppb	0.00
112) Naphthalene-d8a	5.320	136	3257220	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	9.165	57	411031	23.89	ppb	0.00
111) O-terphenyl	8.363	230	970593	24.58	ppb	0.00
Target Compounds						
103) Benzaldehyde	3.908	105	506884	22.21	ppb	Qvalue 98
105) Atrazine	7.769	215	159513	33.14	ppb	95
106) 1,2,4,5-Tetrachloroben...	6.052	216	664732	23.52	ppb	100
109) Benzidine	9.433	184	1227992	24.13	ppb	99
113) Hydroquinone	5.737	110	628259	23.31	ppb	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1583\
Data File : 2p37944.D
Acq On : 27 Jun 2014 4:25 pm
Operator : elwiraa
Sample : ic1584-25
Misc : op75638,e2p1584,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 30 07:51:01 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 30 07:47:28 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1583\
 Data File : 2p37945.D
 Acq On : 27 Jun 2014 4:48 pm
 Operator : elwiraa
 Sample : ic1584-80
 Misc : op75638,e2p1584,
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 30 07:52:07 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Mon Jun 30 07:47:28 2014
 Response via : Initial Calibration

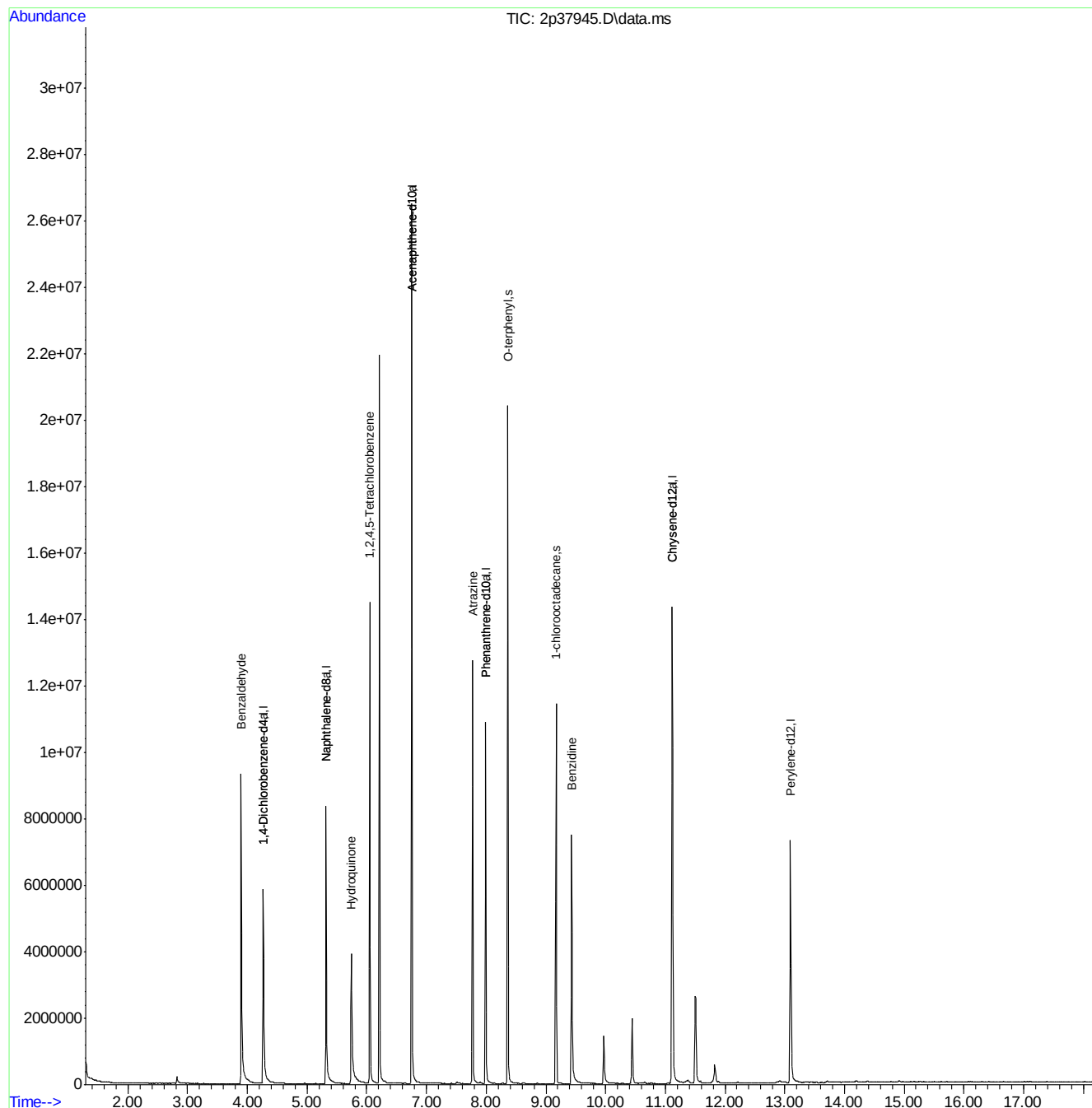
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.266	152	1031439	40.00	ppb	0.00
24) Naphthalene-d8	5.320	136	4016804	40.00	ppb	0.00
47) Acenaphthene-d10	6.753	164	1921753	40.00	ppb	0.00
69) Phenanthrene-d10	7.989	188	3490582	40.00	ppb	0.00
83) Chrysene-d12	11.118	240	3571197	40.00	ppb	0.00
92) Perylene-d12	13.097	264	3231136	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	4.266	152	1031439	40.00	ppb	0.00
104) Acenaphthene-d10a	6.753	164	1921753	40.00	ppb	0.00
107) Chrysene-d12a	11.118	240	3571197	40.00	ppb	0.00
110) Phenanthrene-d10a	7.989	188	3490582	40.00	ppb	0.00
112) Naphthalene-d8a	5.320	136	4016804	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	9.171	57	1685295	80.86	ppb	0.00
111) O-terphenyl	8.363	230	3786157	80.01	ppb	0.00
Target Compounds						
103) Benzaldehyde	3.897	105	2234938	81.21	ppb	98
105) Atrazine	7.775	215	669329	122.47	ppb	97
106) 1,2,4,5-Tetrachloroben...	6.052	216	2623780	81.78	ppb	100
109) Benzidine	9.433	184	3507905	56.92	ppb	100
113) Hydroquinone	5.742	110	2731930	82.20	ppb	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1583\
Data File : 2p37945.D
Acq On : 27 Jun 2014 4:48 pm
Operator : elwiraa
Sample : ic1584-80
Misc : op75638,e2p1584,
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 30 07:52:07 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 30 07:47:28 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1583\
 Data File : 2p37946.D
 Acq On : 27 Jun 2014 5:11 pm
 Operator : elwiraa
 Sample : ic1584-10
 Misc : op75638,e2p1584,
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 30 07:53:52 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Mon Jun 30 07:47:28 2014
 Response via : Initial Calibration

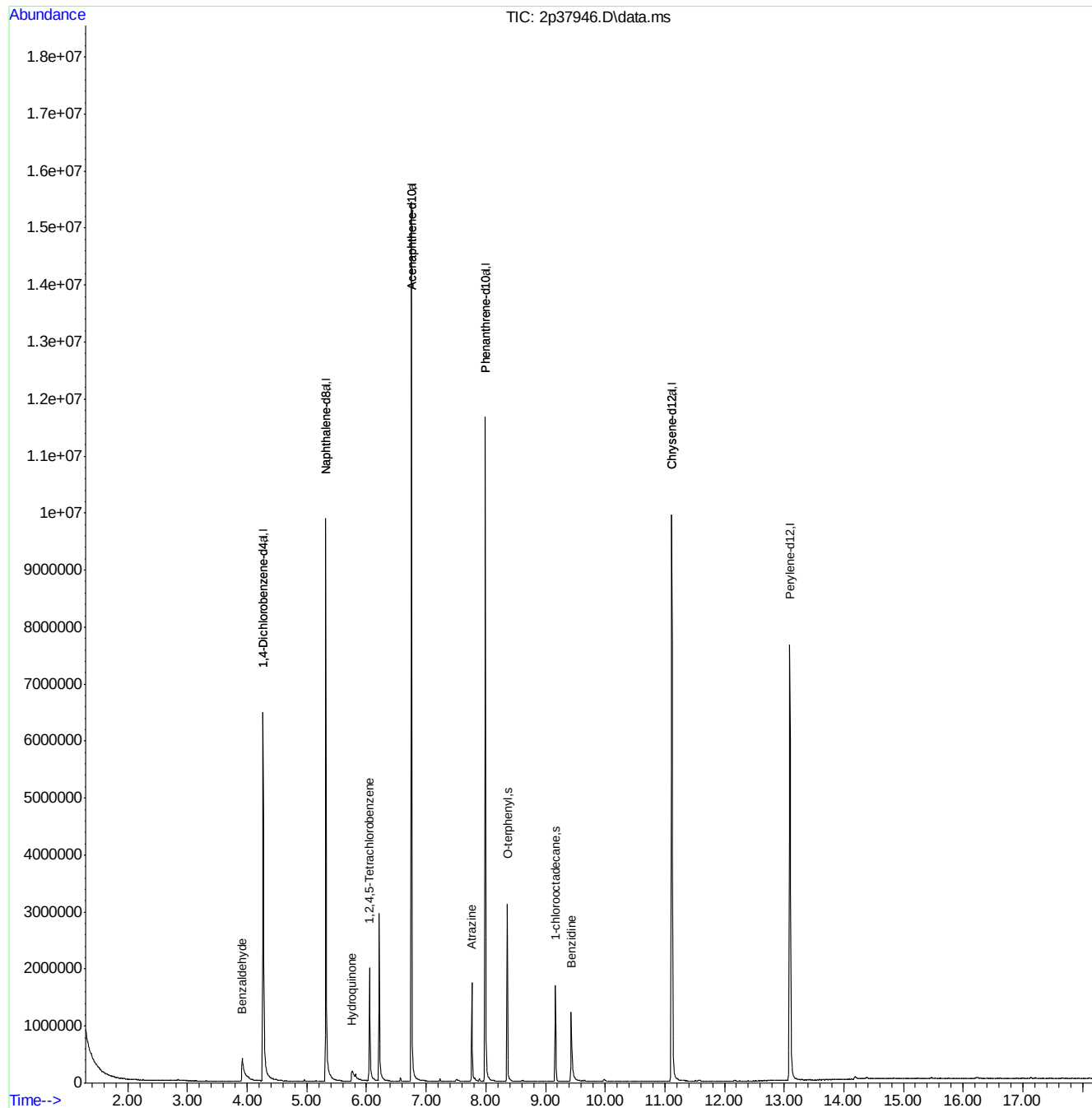
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.266	152	1134515	40.00	ppb	0.00
24) Naphthalene-d8	5.320	136	4313379	40.00	ppb	0.00
47) Acenaphthene-d10	6.753	164	2238269	40.00	ppb	0.00
69) Phenanthrene-d10	7.989	188	3834297	40.00	ppb	0.00
83) Chrysene-d12	11.118	240	3950545	40.00	ppb	0.00
92) Perylene-d12	13.097	264	3477226	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	4.266	152	1134515	40.00	ppb	0.00
104) Acenaphthene-d10a	6.753	164	2238269	40.00	ppb	0.00
107) Chrysene-d12a	11.118	240	3950545	40.00	ppb	0.00
110) Phenanthrene-d10a	7.989	188	3834297	40.00	ppb	0.00
112) Naphthalene-d8a	5.320	136	4313379	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	0d	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	9.165	57	242882	10.53	ppb	0.00
111) O-terphenyl	8.363	230	587781	11.31	ppb	0.00
Target Compounds						
103) Benzaldehyde	3.918	105	312742	10.33	ppb	98
105) Atrazine	7.769	215	95898	15.07	ppb	89
106) 1,2,4,5-Tetrachloroben...	6.052	216	409582	10.96	ppb	99
109) Benzidine	9.433	184	711415	10.43	ppb	98
113) Hydroquinone	5.758	110	335957m	9.41	ppb	

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1583\
Data File : 2p37946.D
Acq On : 27 Jun 2014 5:11 pm
Operator : elwiraa
Sample : ic1584-10
Misc : op75638,e2p1584,
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 30 07:53:52 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 30 07:47:28 2014
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: E2P1584-IC1584

Method: SW846 8270D

Lab FileID: 2P37946.D

Analyst approved: 06/30/14 15:02 Elwira Antonik

Injection Time: 06/27/14 17:11

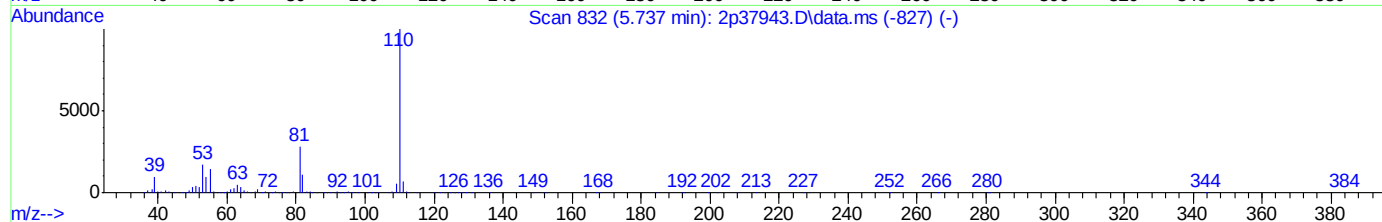
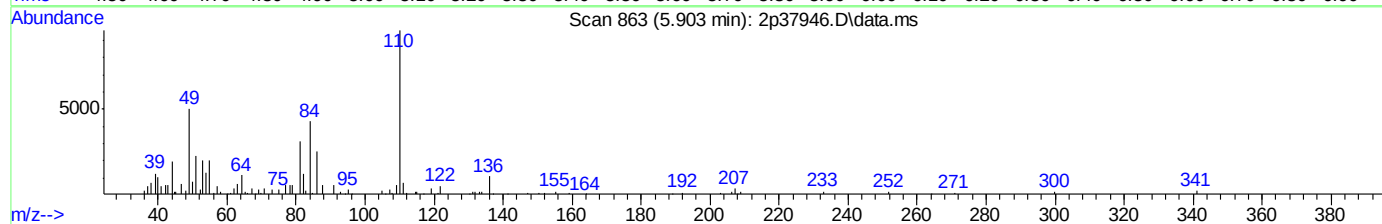
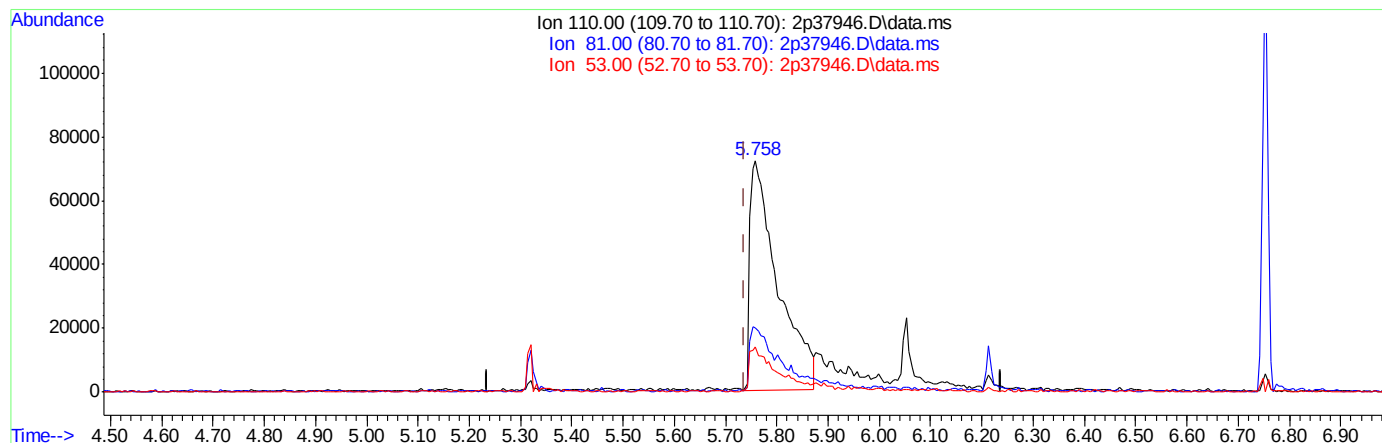
Supervisor approved: 07/02/14 13:47 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
Hydroquinone	123-31-9		5.76	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1583\
Data File : 2p37946.D
Acq On : 27 Jun 2014 5:11 pm
Operator : elwiraa
Sample : ic1584-10
Misc : op75638,e2p1584,
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 30 07:48:46 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 30 07:47:28 2014
Response via : Initial Calibration



TIC: 2p37946.D\data.ms

(113) Hydroquinone

5.758min (+0.021) 7.59ppb

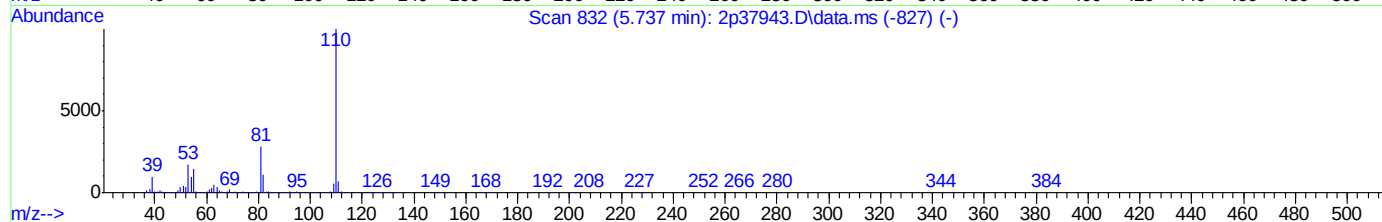
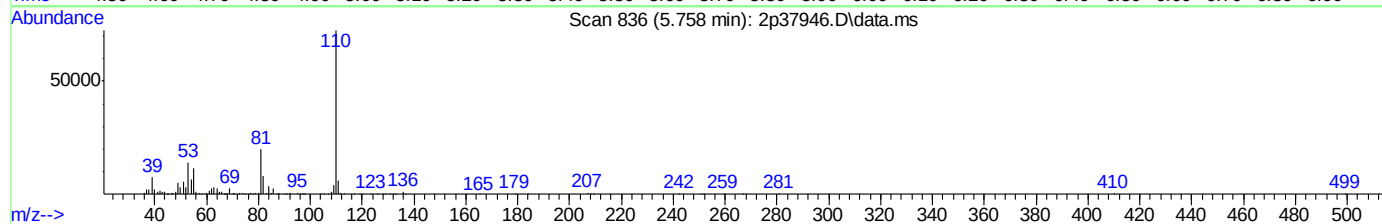
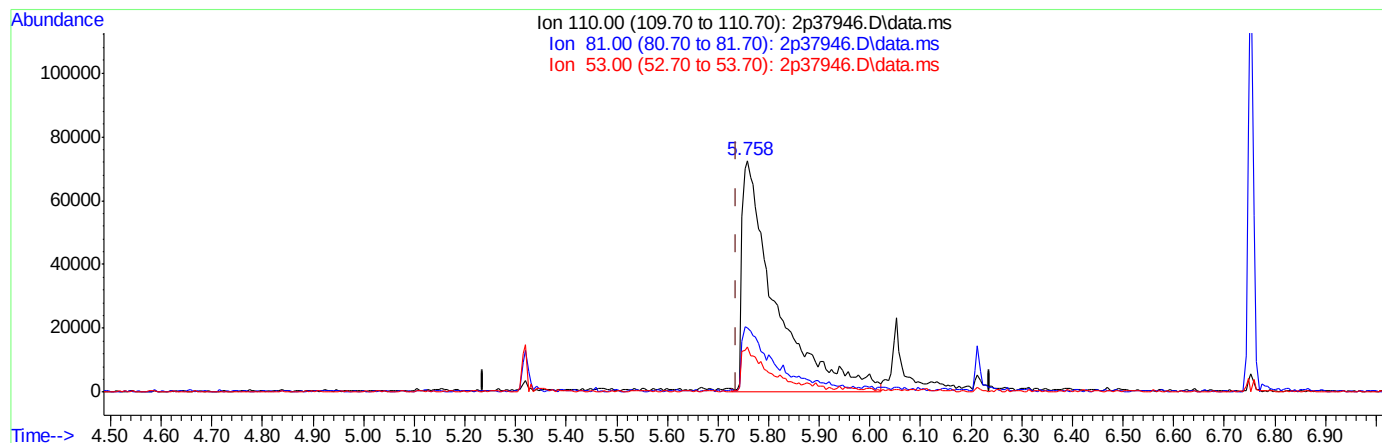
response 270962

Ion	Exp%	Act%
110.00	100	100
81.00	28.40	26.73
53.00	17.20	18.93
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1583\
Data File : 2p37946.D
Acq On : 27 Jun 2014 5:11 pm
Operator : elwiraa
Sample : ic1584-10
Misc : op75638,e2p1584,
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 30 07:53:52 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 30 07:47:28 2014
Response via : Initial Calibration



TIC: 2p37946.D\data.ms

(113) Hydroquinone

5.758min (+0.021) 9.41ppb m

response 335957

Ion	Exp%	Act%
110.00	100	100
81.00	28.40	27.73
53.00	17.20	19.31
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1583\
 Data File : 2p37947.D
 Acq On : 27 Jun 2014 5:34 pm
 Operator : elwiraa
 Sample : ic1584-5
 Misc : op75638,e2p1584,
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 30 07:56:05 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Mon Jun 30 07:47:28 2014
 Response via : Initial Calibration

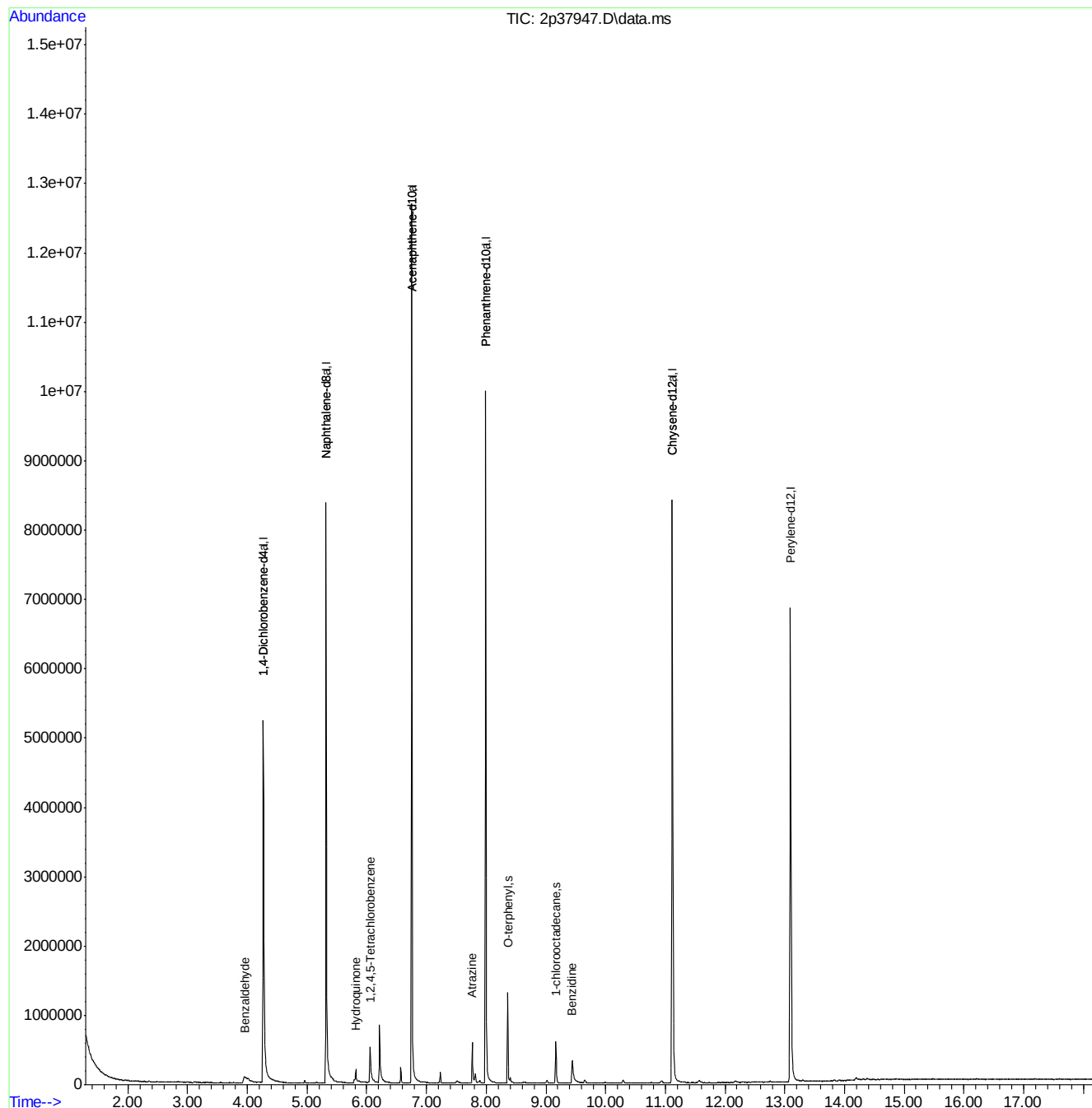
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.266	152	1010395	40.00	ppb	0.00
24) Naphthalene-d8	5.320	136	3831710	40.00	ppb	0.00
47) Acenaphthene-d10	6.753	164	2018929	40.00	ppb	0.00
69) Phenanthrene-d10	7.989	188	3523524	40.00	ppb	0.00
83) Chrysene-d12	11.118	240	3526960	40.00	ppb	0.00
92) Perylene-d12	13.097	264	3116624	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	4.266	152	1010395	40.00	ppb	0.00
104) Acenaphthene-d10a	6.753	164	2018929	40.00	ppb	0.00
107) Chrysene-d12a	11.118	240	3526960	40.00	ppb	0.00
110) Phenanthrene-d10a	7.989	188	3523524	40.00	ppb	0.00
112) Naphthalene-d8a	5.320	136	3831710	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	0d	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	9.165	57	94192	4.58	ppb	0.00
111) O-terphenyl	8.363	230	243812	5.10	ppb	0.00
Target Compounds						
103) Benzaldehyde	3.961	105	108193	4.01	ppb	88
105) Atrazine	7.769	215	35831	6.24	ppb	94
106) 1,2,4,5-Tetrachloroben...	6.058	216	165683	4.92	ppb	98
109) Benzidine	9.438	184	256692	4.22	ppb	95
113) Hydroquinone	5.812	110	114647m	3.62	ppb	

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1583\
Data File : 2p37947.D
Acq On : 27 Jun 2014 5:34 pm
Operator : elwiraa
Sample : ic1584-5
Misc : op75638,e2p1584,
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 30 07:56:05 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 30 07:47:28 2014
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: E2P1584-IC1584

Method: SW846 8270D

Lab FileID: 2P37947.D

Analyst approved: 06/30/14 15:02 Elwira Antonik

Injection Time: 06/27/14 17:34

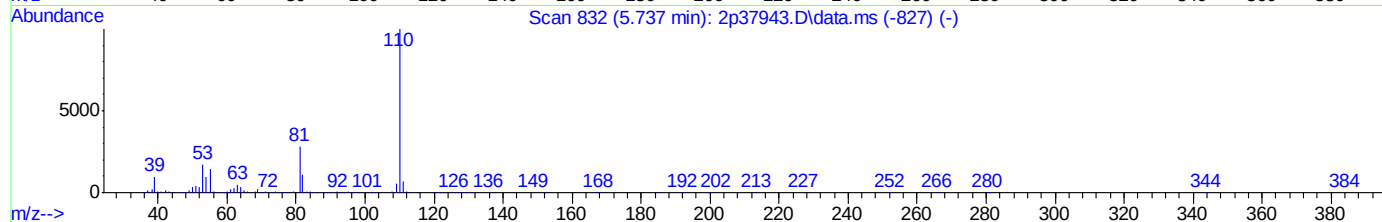
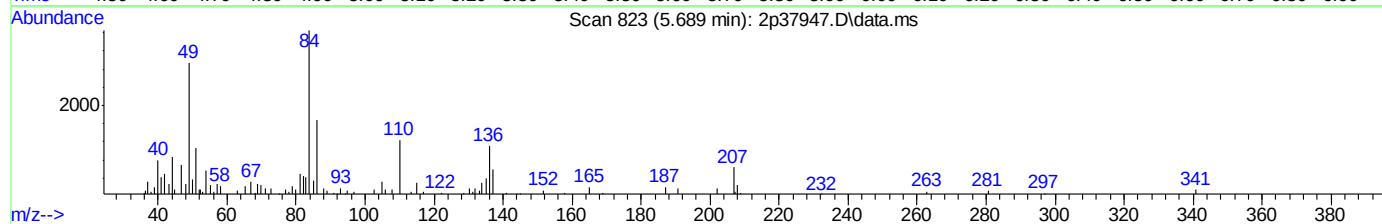
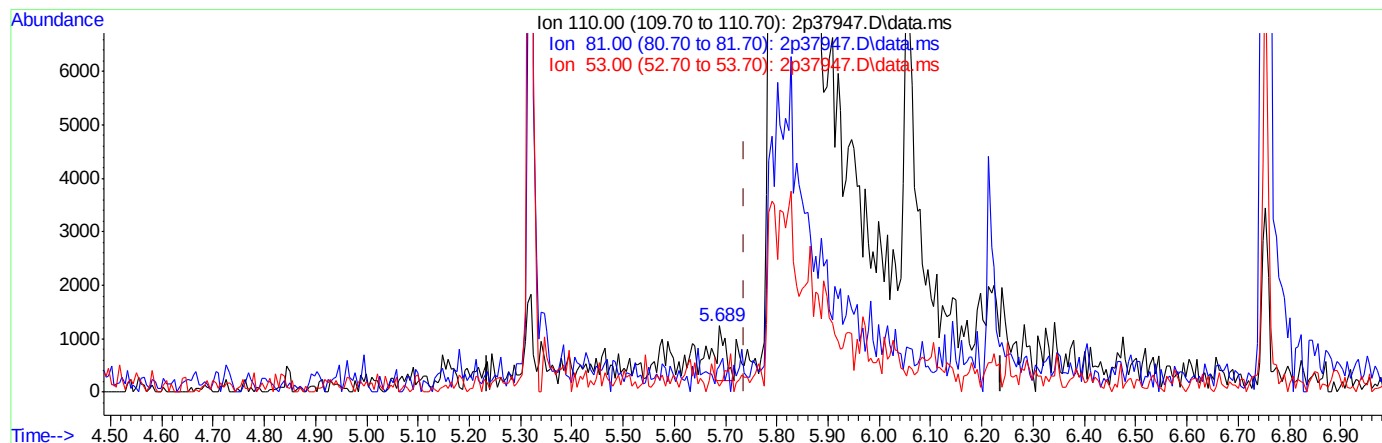
Supervisor approved: 07/02/14 13:47 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
Hydroquinone	123-31-9		5.81	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1583\
Data File : 2p37947.D
Acq On : 27 Jun 2014 5:34 pm
Operator : elwiraa
Sample : ic1584-5
Misc : op75638,e2p1584,
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 30 07:48:50 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 30 07:47:28 2014
Response via : Initial Calibration



TIC: 2p37947.D\data.ms

(113) Hydroquinone

5.689min (-0.048) 0.03ppb

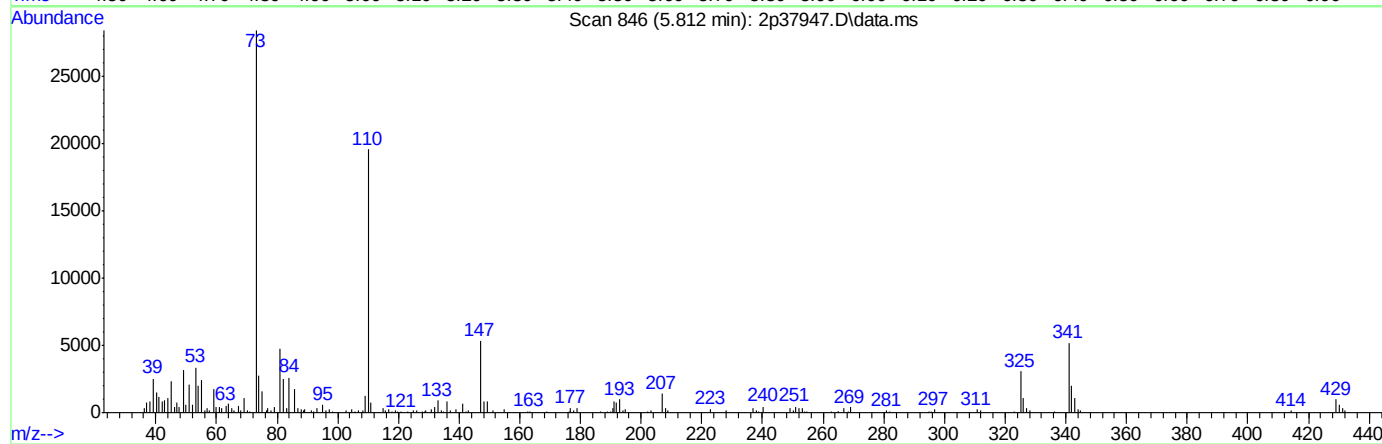
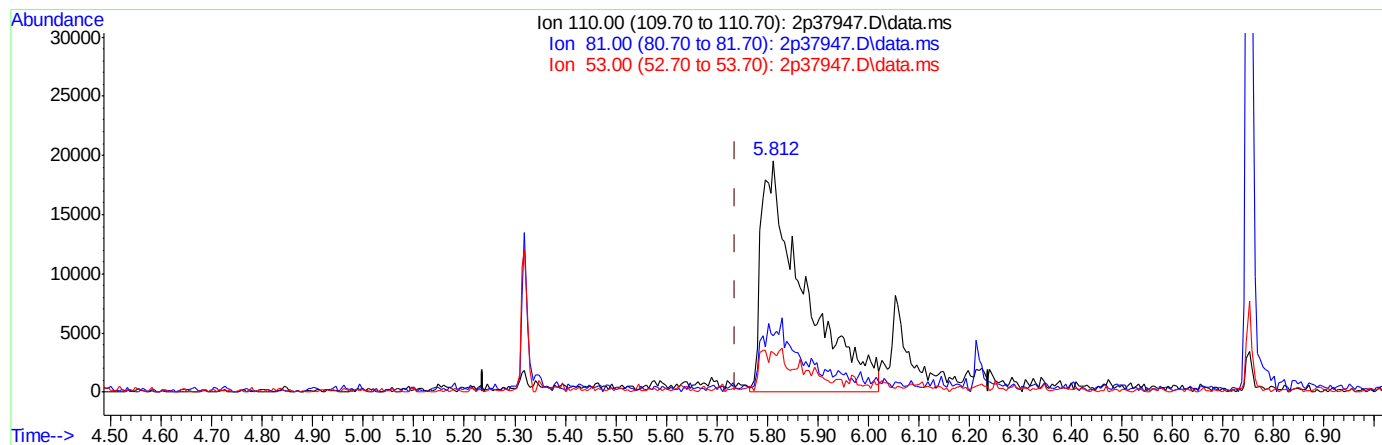
response 1057

Ion	Exp%	Act%
110.00	100	100
81.00	28.40	19.25
53.00	17.20	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1583\
Data File : 2p37947.D
Acq On : 27 Jun 2014 5:34 pm
Operator : elwiraa
Sample : ic1584-5
Misc : op75638,e2p1584,
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 30 07:56:05 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 30 07:47:28 2014
Response via : Initial Calibration



TIC: 2p37947.D\data.ms

(113) Hydroquinone

5.812min (+0.075) 3.62ppb m

response 114647

Ion	Exp%	Act%
110.00	100	100
81.00	28.40	24.16
53.00	17.20	17.22
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1583\
 Data File : 2p37948.D
 Acq On : 27 Jun 2014 5:57 pm
 Operator : elwiraa
 Sample : ic1584-2
 Misc : op75638,e2p1584,
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 02 14:32:25 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Mon Jun 30 07:47:28 2014
 Response via : Initial Calibration

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

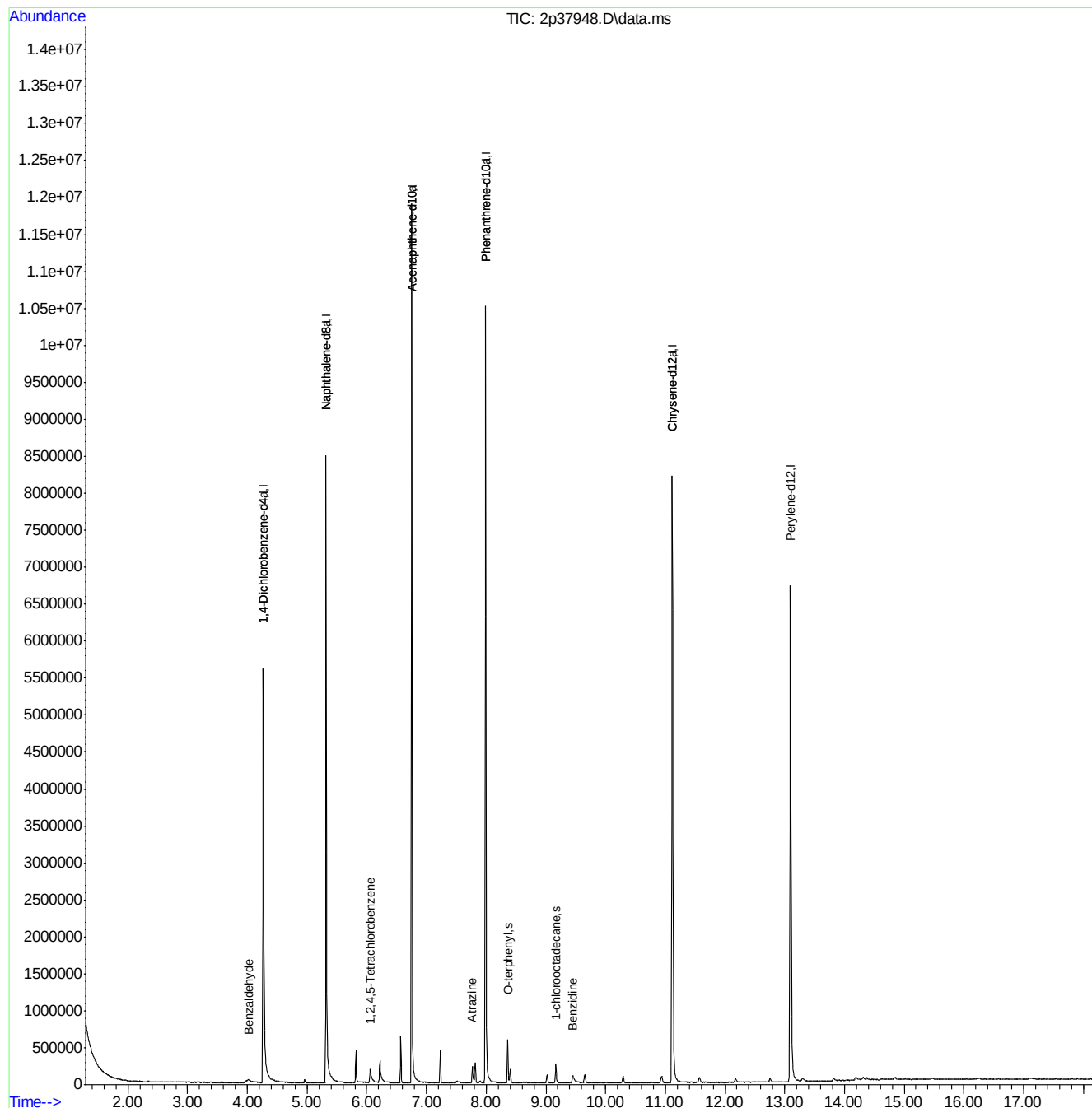
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.266	152	1053677	40.00	ppb	0.00
24) Naphthalene-d8	5.320	136	3928147	40.00	ppb	0.00
47) Acenaphthene-d10	6.753	164	2027742	40.00	ppb	0.00
69) Phenanthrene-d10	7.989	188	3528318	40.00	ppb	0.00
83) Chrysene-d12	11.118	240	3563187	40.00	ppb	0.00
92) Perylene-d12	13.097	264	3126146	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	4.266	152	1053677	40.00	ppb	0.00
104) Acenaphthene-d10a	6.753	164	2027742	40.00	ppb	0.00
107) Chrysene-d12a	11.118	240	3563187	40.00	ppb	0.00
110) Phenanthrene-d10a	7.989	188	3528318	40.00	ppb	0.00
112) Naphthalene-d8a	5.320	136	3928147	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	0d	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	9.171	57	41453	1.99	ppb	0.00
111) O-terphenyl	8.363	230	113610	2.38	ppb	0.00
Target Compounds						Qvalue
103) Benzaldehyde	4.015	105	53783m	1.91	ppb	
105) Atrazine	7.769	215	17138	2.97	ppb	91
106) 1,2,4,5-Tetrachloroben...	6.058	216	75983	2.24	ppb	98
109) Benzidine	9.449	184	99884m	1.62	ppb	

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1583\
Data File : 2p37948.D
Acq On : 27 Jun 2014 5:57 pm
Operator : elwiraa
Sample : ic1584-2
Misc : op75638,e2p1584,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 02 14:32:25 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 30 07:47:28 2014
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: E2P1584-IC1584

Method: SW846 8270D

Lab FileID: 2P37948.D

Analyst approved: 06/30/14 15:02 Elwira Antonik

Injection Time: 06/27/14 17:57

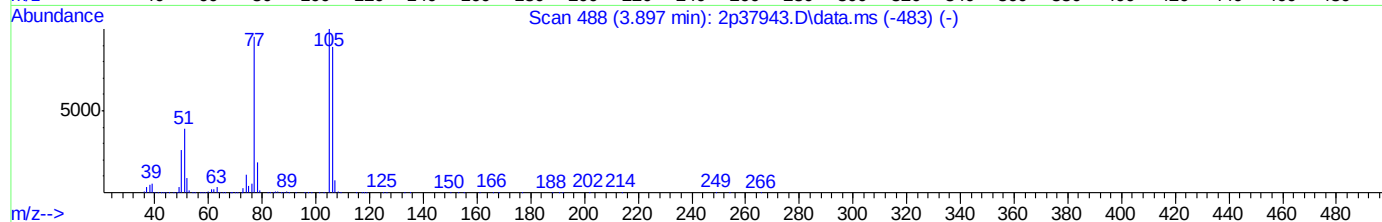
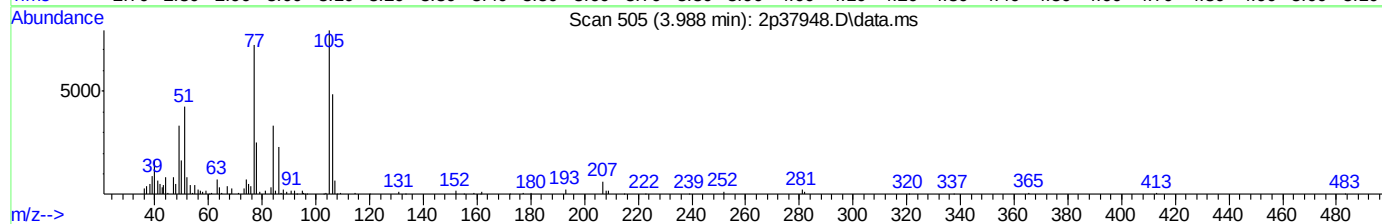
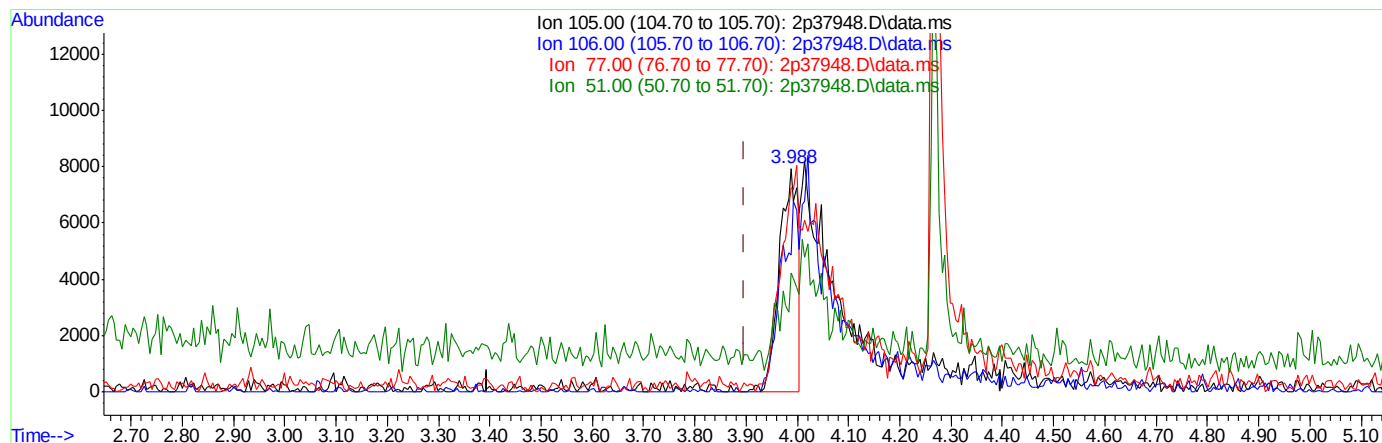
Supervisor approved: 07/02/14 13:47 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzaldehyde	100-52-7		4.01	Poor instrument integration
Hydroquinone	123-31-9		5.86	Poor instrument integration
Benzidine	92-87-5		9.45	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1583\
Data File : 2p37948.D
Acq On : 27 Jun 2014 5:57 pm
Operator : elwiraa
Sample : ic1584-2
Misc : op75638,e2p1584,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 30 07:48:54 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 30 07:47:28 2014
Response via : Initial Calibration



TIC: 2p37948.D\data.ms

(103) Benzaldehyde

3.988min (+0.091) 0.72ppb

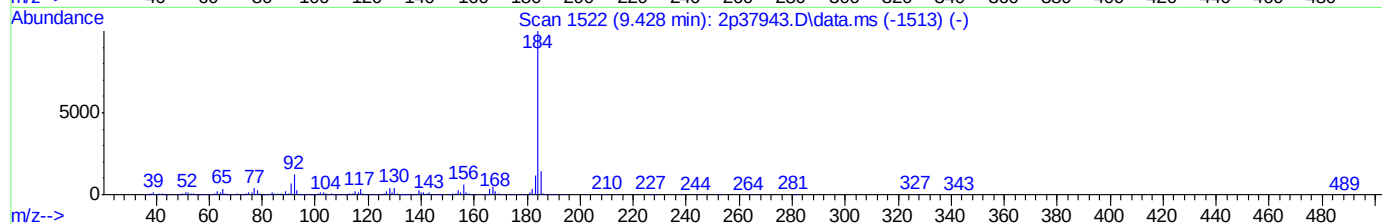
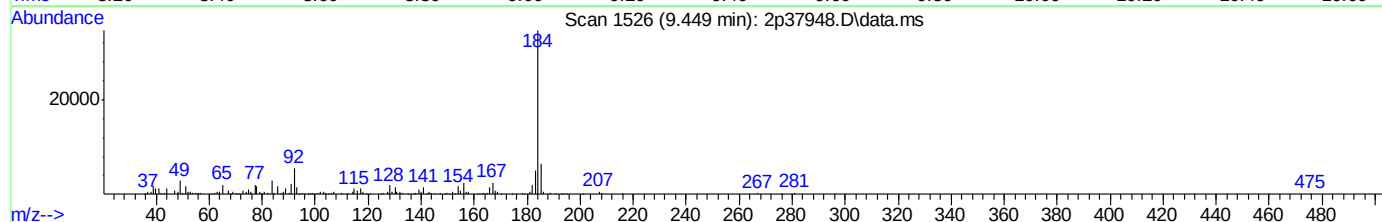
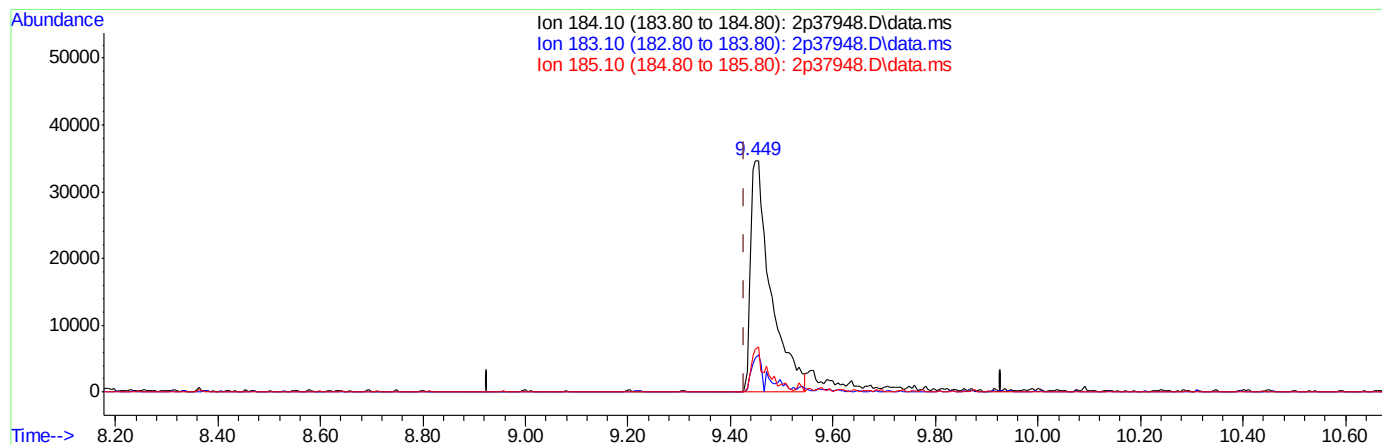
response 20135

Ion	Exp%	Act%
105.00	100	100
106.00	89.00	48.54#
77.00	95.40	86.94
51.00	38.80	37.23

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1583\
Data File : 2p37948.D
Acq On : 27 Jun 2014 5:57 pm
Operator : elwiraa
Sample : ic1584-2
Misc : op75638,e2p1584,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 30 07:48:54 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 30 07:47:28 2014
Response via : Initial Calibration



TIC: 2p37948.D\data.ms

(109) Benzidine

9.449min (+0.021) 1.54ppb

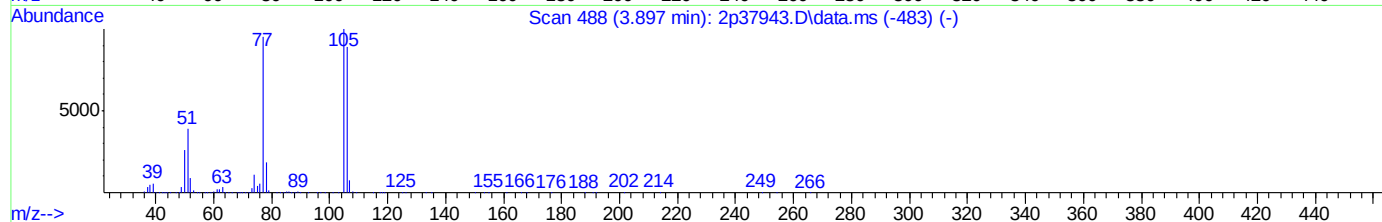
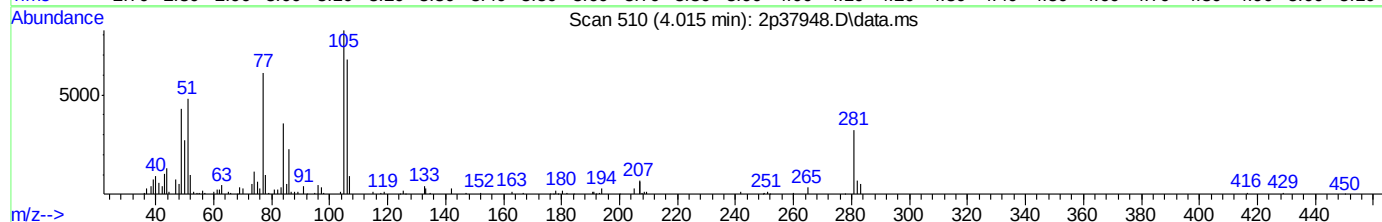
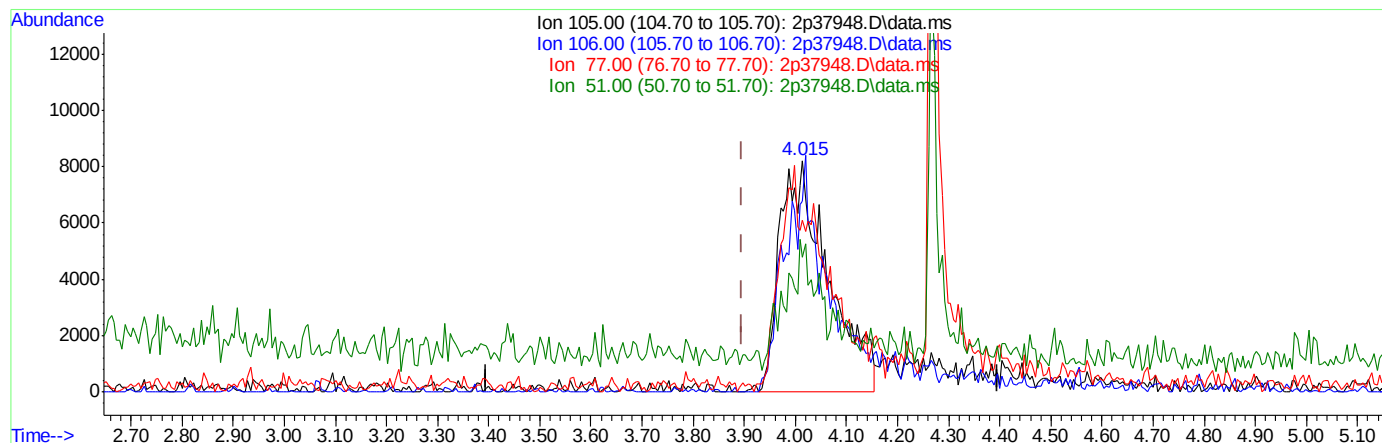
response 94826

Ion	Exp%	Act%
184.10	100	100
183.10	11.70	14.35
185.10	14.50	19.52
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1583\
Data File : 2p37948.D
Acq On : 27 Jun 2014 5:57 pm
Operator : elwiraa
Sample : ic1584-2
Misc : op75638,e2p1584,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 30 08:00:13 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 30 07:47:28 2014
Response via : Initial Calibration



TIC: 2p37948.D\data.ms

(103) Benzaldehyde

4.015min (+0.118) 1.91ppb m

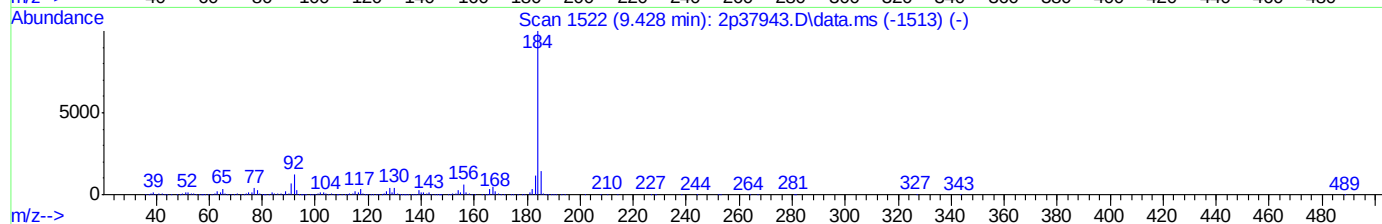
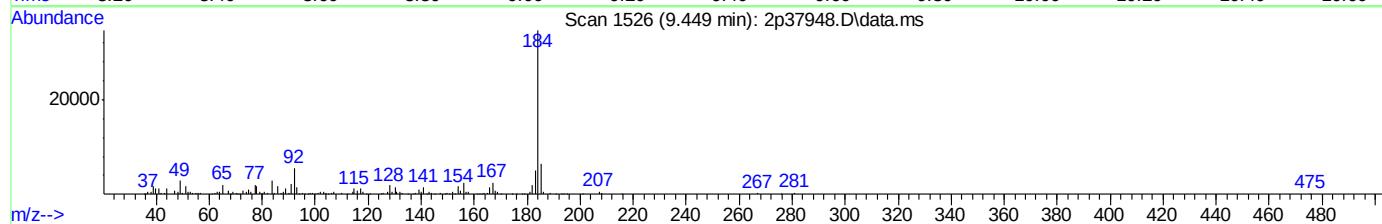
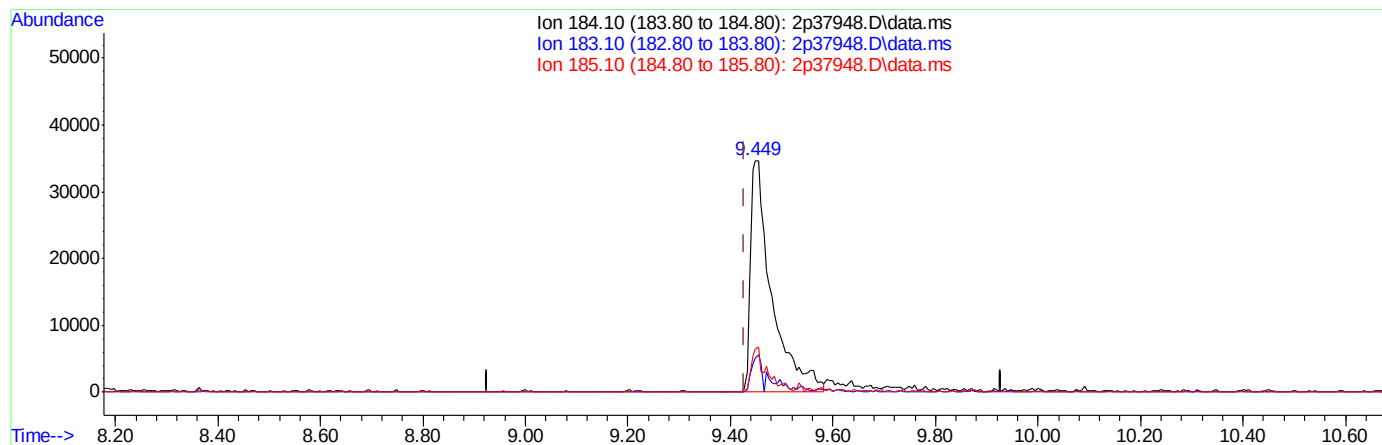
response 53783

Ion	Exp%	Act%
105.00	100	100
106.00	89.00	82.20
77.00	95.40	74.43
51.00	38.80	58.22

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1583\
Data File : 2p37948.D
Acq On : 27 Jun 2014 5:57 pm
Operator : elwiraa
Sample : ic1584-2
Misc : op75638,e2p1584,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 30 08:00:13 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 30 07:47:28 2014
Response via : Initial Calibration



TIC: 2p37948.D\data.ms

(109) Benzidine

9.449min (+0.021) 1.62ppb m

response 99884

Ion	Exp%	Act%
184.10	100	100
183.10	11.70	14.51
185.10	14.50	18.73
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1583\
 Data File : 2p37949.D
 Acq On : 27 Jun 2014 6:19 pm
 Operator : elwiraa
 Sample : ic1584-1
 Misc : op75638,e2p1584,
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jul 02 14:32:14 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Mon Jun 30 07:47:28 2014
 Response via : Initial Calibration

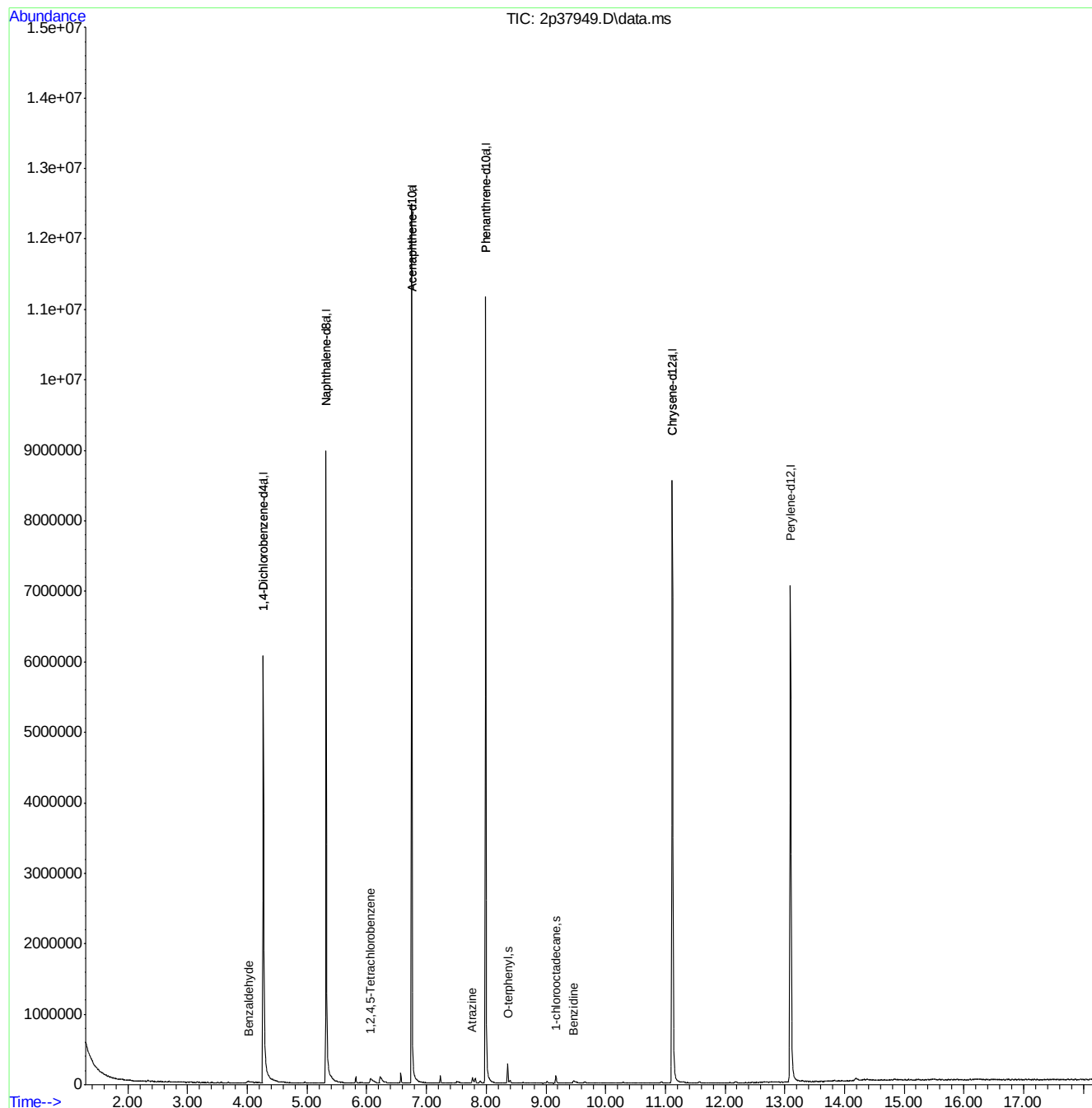
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.266	152	1110256	40.00	ppb	0.00
24) Naphthalene-d8	5.320	136	4140277	40.00	ppb	0.00
47) Acenaphthene-d10	6.753	164	2166630	40.00	ppb	0.00
69) Phenanthrene-d10	7.989	188	3741662	40.00	ppb	0.00
83) Chrysene-d12	11.118	240	3727420	40.00	ppb	0.00
92) Perylene-d12	13.097	264	3244725	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	4.266	152	1110256	40.00	ppb	0.00
104) Acenaphthene-d10a	6.753	164	2166630	40.00	ppb	0.00
107) Chrysene-d12a	11.118	240	3727420	40.00	ppb	0.00
110) Phenanthrene-d10a	7.989	188	3741662	40.00	ppb	0.00
112) Naphthalene-d8a	5.320	136	4140277	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	0d	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	9.165	57	18692	0.86	ppb	0.00
111) O-terphenyl	8.363	230	53094	1.05	ppb	0.00
Target Compounds						
103) Benzaldehyde	4.020	105	23160m	0.78	ppb	Qvalue
105) Atrazine	7.769	215	6543	1.06	ppb	91
106) 1,2,4,5-Tetrachloroben...	6.069	216	38438m	1.06	ppb	
109) Benzidine	9.470	184	36718	0.57	ppb	91

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1583\
Data File : 2p37949.D
Acq On : 27 Jun 2014 6:19 pm
Operator : elwiraa
Sample : ic1584-1
Misc : op75638,e2p1584,
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jul 02 14:32:14 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 30 07:47:28 2014
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: E2P1584-IC1584

Method: SW846 8270D

Lab FileID: 2P37949.D

Analyst approved: 06/30/14 15:02 Elwira Antonik

Injection Time: 06/27/14 18:19

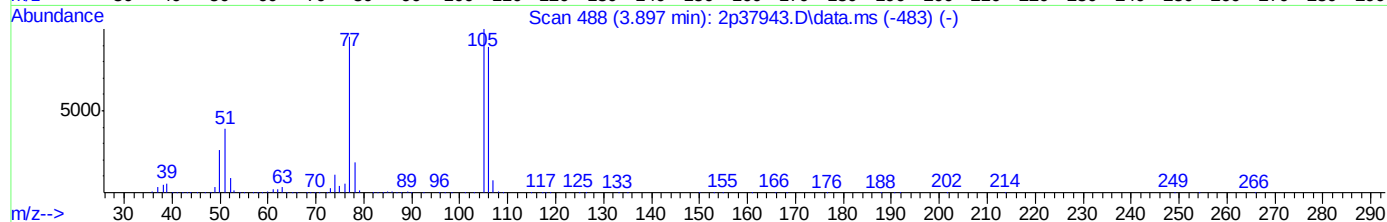
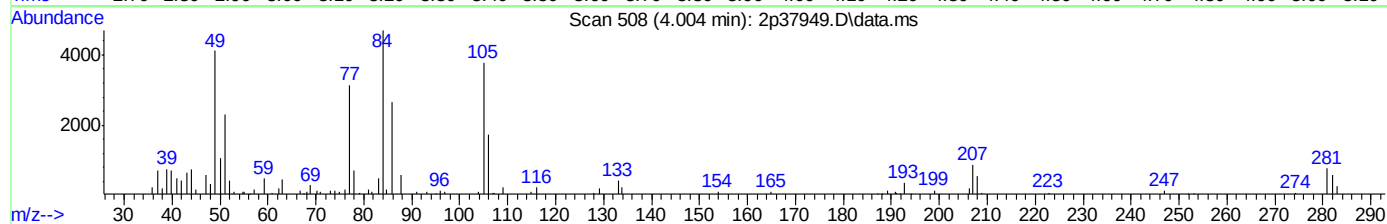
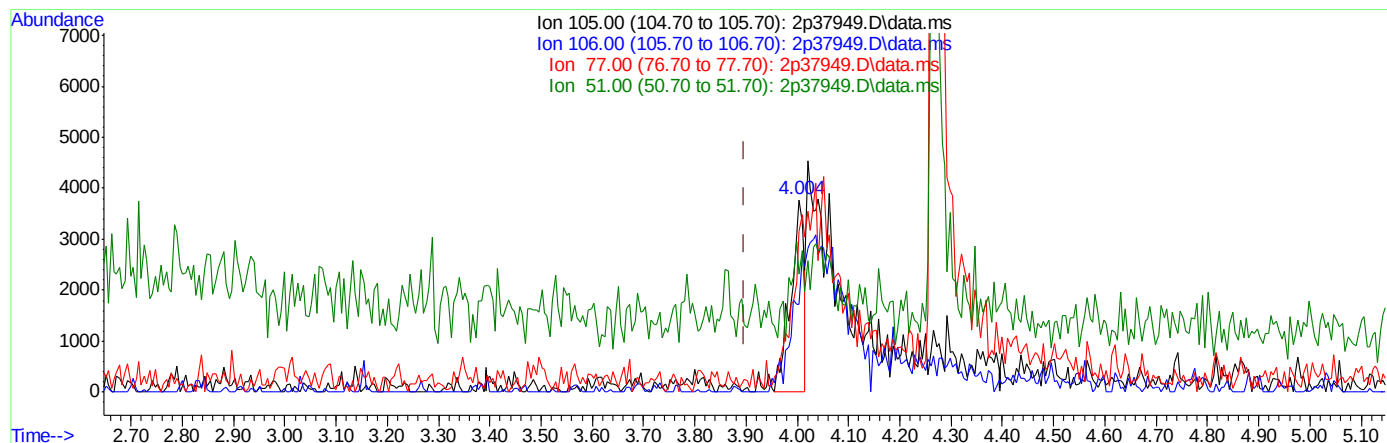
Supervisor approved: 07/02/14 13:47 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzaldehyde	100-52-7		4.02	Poor instrument integration
Hydroquinone	123-31-9		5.89	Poor instrument integration
1,2,4,5-Tetrachlorobenzene	95-94-3		6.07	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1583\
Data File : 2p37949.D
Acq On : 27 Jun 2014 6:19 pm
Operator : elwiraa
Sample : ic1584-1
Misc : op75638,e2p1584,
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 30 07:48:58 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 30 07:47:28 2014
Response via : Initial Calibration



TIC: 2p37949.D\data.ms

(103) Benzaldehyde

4.004min (+0.107) 0.23ppb

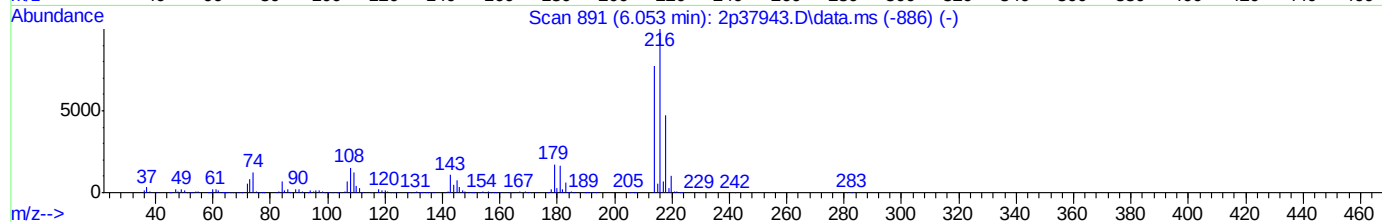
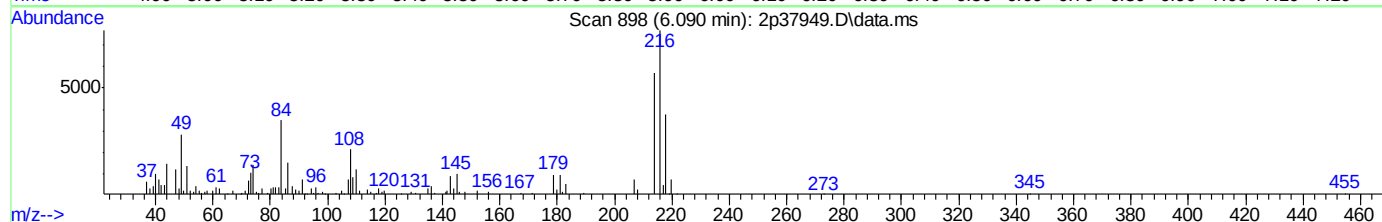
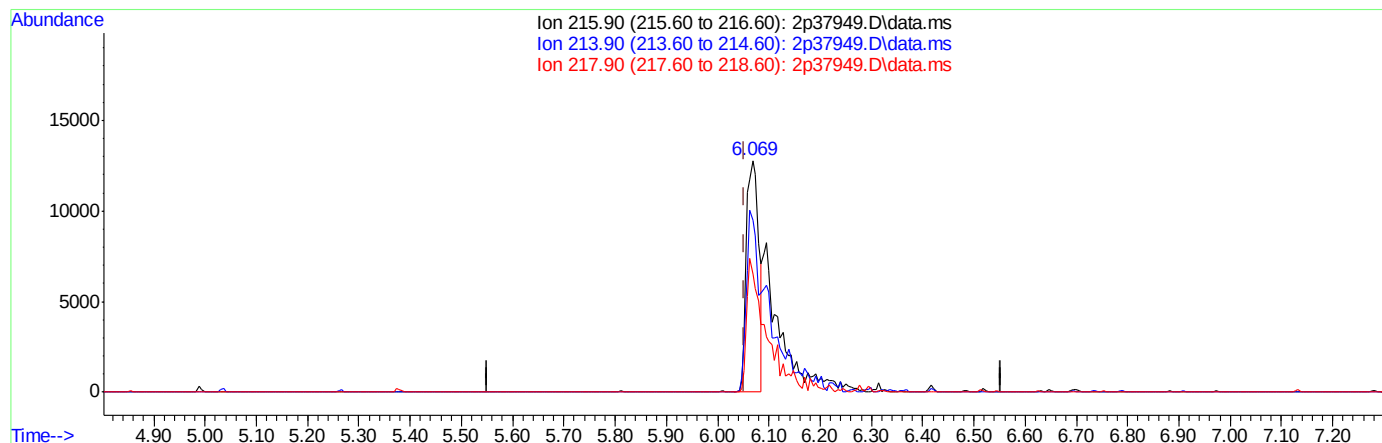
response 6841

Ion	Exp%	Act%
105.00	100	100
106.00	89.00	15.33#
77.00	95.40	57.38#
51.00	38.80	26.31

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1583\
Data File : 2p37949.D
Acq On : 27 Jun 2014 6:19 pm
Operator : elwiraa
Sample : ic1584-1
Misc : op75638,e2p1584,
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 30 07:48:58 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 30 07:47:28 2014
Response via : Initial Calibration



(106) 1,2,4,5-Tetrachlorobenzene

6.069min (+0.016) 0.59ppb

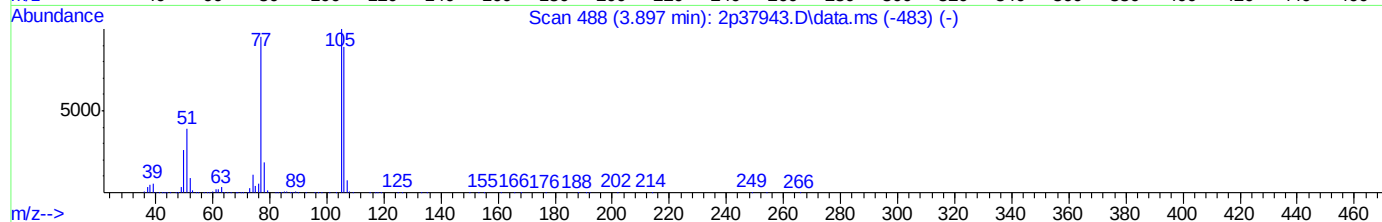
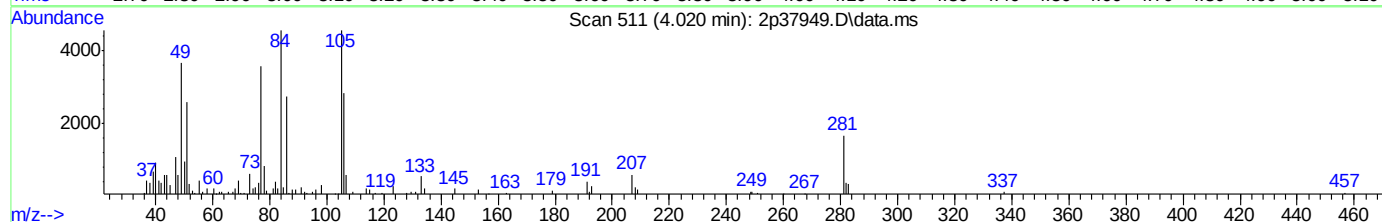
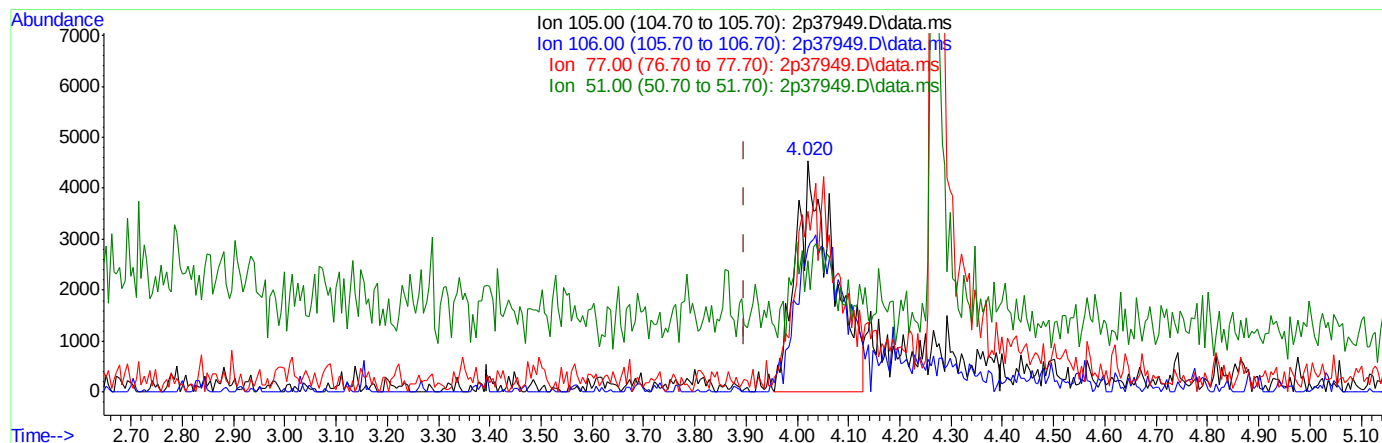
response 21411

Ion	Exp%	Act%
215.90	100	100
213.90	77.60	72.90
217.90	47.10	50.05
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1583\
Data File : 2p37949.D
Acq On : 27 Jun 2014 6:19 pm
Operator : elwiraa
Sample : ic1584-1
Misc : op75638,e2p1584,
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 30 08:04:45 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 30 07:47:28 2014
Response via : Initial Calibration



TIC: 2p37949.D\data.ms

(103) Benzaldehyde

4.020min (+0.123) 0.78ppb m

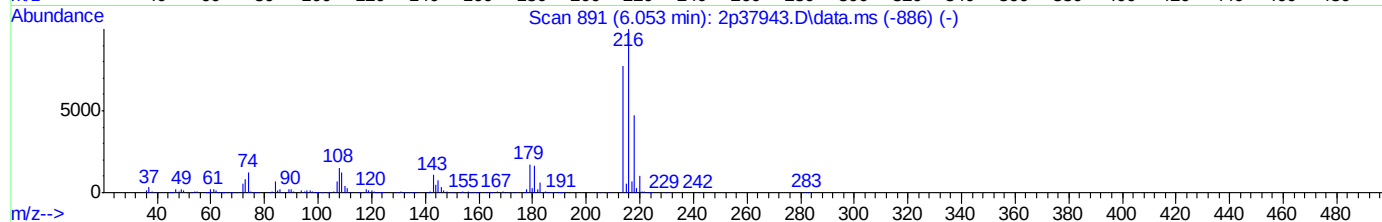
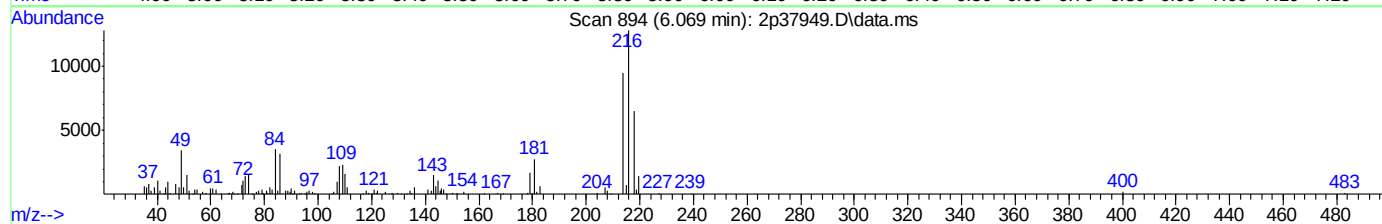
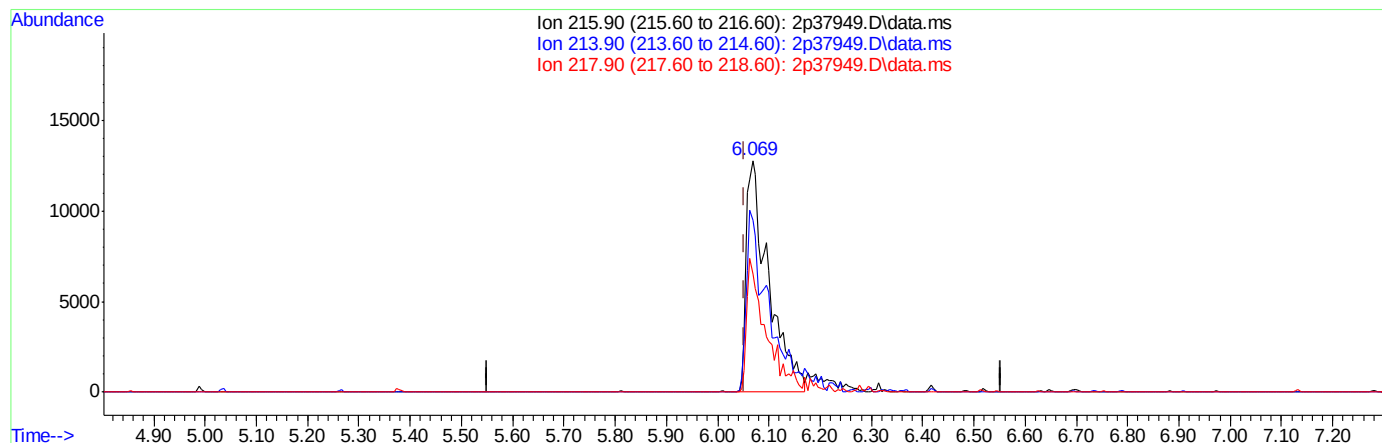
response 23160

Ion	Exp%	Act%
105.00	100	100
106.00	89.00	62.11
77.00	95.40	78.22
51.00	38.80	56.90

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1583\
Data File : 2p37949.D
Acq On : 27 Jun 2014 6:19 pm
Operator : elwiraa
Sample : ic1584-1
Misc : op75638,e2p1584,
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 30 08:04:45 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 30 07:47:28 2014
Response via : Initial Calibration



TIC: 2p37949.D\data.ms

(106) 1,2,4,5-Tetrachlorobenzene

6.069min (+0.016) 1.06ppb m

response 38438

Ion	Exp%	Act%
215.90	100	100
213.90	77.60	74.23
217.90	47.10	50.86
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1583\
 Data File : 2p37951.D
 Acq On : 27 Jun 2014 7:05 pm
 Operator : elwiraa
 Sample : icv1583-50
 Misc : op75638,e2p1584,
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jul 01 12:11:18 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Mon Jun 30 08:35:13 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.266	152	1265347	40.00	ppb	0.00
24) Naphthalene-d8	5.320	136	4563271	40.00	ppb	0.00
47) Acenaphthene-d10	6.753	164	2531873	40.00	ppb	0.00
69) Phenanthrene-d10	7.989	188	4202621	40.00	ppb	0.00
83) Chrysene-d12	11.118	240	4480748	40.00	ppb	0.00
92) Perylene-d12	13.097	264	3683286	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	4.266	152	1265347	40.00	ppb	0.00
104) Acenaphthene-d10a	6.753	164	2531873	40.00	ppb	0.00
107) Chrysene-d12a	11.118	240	4480748	40.00	ppb	0.00
110) Phenanthrene-d10a	7.989	188	4202621	40.00	ppb	0.00
112) Naphthalene-d8a	5.320	136	4563271	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	0d	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

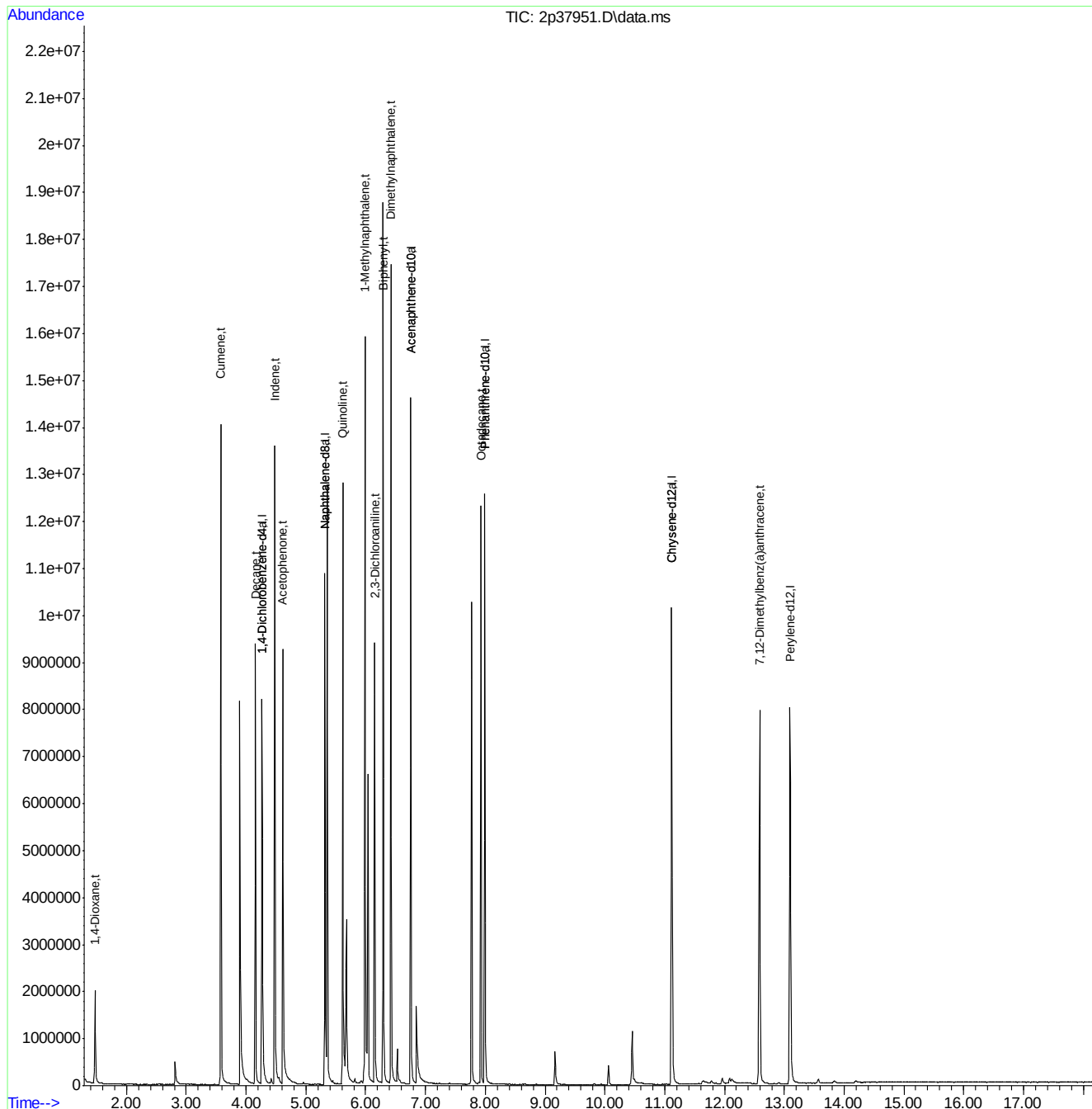
						Qvalue
2) 1,4-Dioxane	1.474	88	862579	50.12	ppb	100
6) Indene	4.480	116	3681744	57.38	ppb	100
7) Cumene	3.576	105	5121063	56.15	ppb	99
13) Decane	4.154	57	1666495	53.06	ppb	99
18) Acetophenone	4.614	105	2901373	54.68	ppb	95
27) Quinoline	5.614	129	4411876	55.02	ppb	99
40) 2,3-Dichloroaniline	6.149	161	1970230	46.36	ppb	99
45) 1-Methylnaphthalene	5.988	141	3599643	52.04	ppb	98
46) Dimethylnaphthalene	6.421	156	3440759	53.26	ppb	99
53) Biphenyl	6.293	154	4814021	54.90	ppb	99
82) Octadecane	7.930	43	1463497	60.14	ppb	99
100) 7,12-Dimethylbenz(a)an...	12.588	256	2072424	46.02	ppb	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1583\
Data File : 2p37951.D
Acq On : 27 Jun 2014 7:05 pm
Operator : elwiraa
Sample : icv1583-50
Misc : op75638,e2p1584,
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jul 01 12:11:18 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 30 08:35:13 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1583\
 Data File : 2p37951a.D
 Acq On : 27 Jun 2014 7:05 pm
 Operator : elwiraa
 Sample : icv1584-50
 Misc : op75638,e2p1584,
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jul 01 12:11:52 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Mon Jun 30 08:35:13 2014
 Response via : Initial Calibration

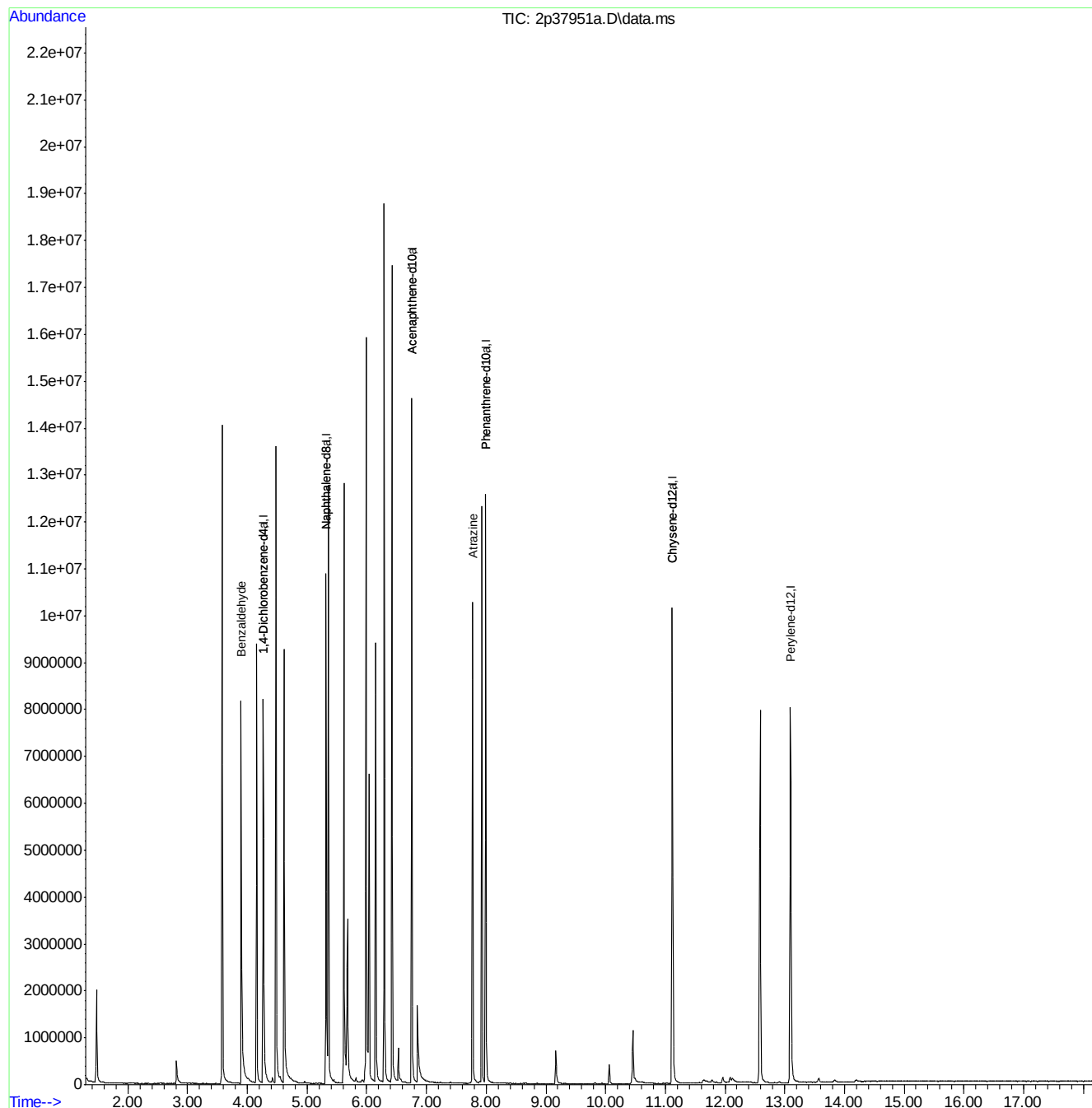
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.266	152	1265347	40.00	ppb	0.00
24) Naphthalene-d8	5.320	136	4563271	40.00	ppb	0.00
47) Acenaphthene-d10	6.753	164	2531873	40.00	ppb	0.00
69) Phenanthrene-d10	7.989	188	4202621	40.00	ppb	0.00
83) Chrysene-d12	11.118	240	4480748	40.00	ppb	0.00
92) Perylene-d12	13.097	264	3683286	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	4.266	152	1265347	40.00	ppb	0.00
104) Acenaphthene-d10a	6.753	164	2531873	40.00	ppb	0.00
107) Chrysene-d12a	11.118	240	4480748	40.00	ppb	0.00
110) Phenanthrene-d10a	7.989	188	4202621	40.00	ppb	0.00
112) Naphthalene-d8a	5.320	136	4563271	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	0d	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						
103) Benzaldehyde	3.897	105	1883265	59.68	ppb	Qvalue 98
105) Atrazine	7.775	215	551155	55.40	ppb	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1583\
Data File : 2p37951a.D
Acq On : 27 Jun 2014 7:05 pm
Operator : elwiraa
Sample : icv1584-50
Misc : op75638,e2p1584,
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jul 01 12:11:52 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 30 08:35:13 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1583\
 Data File : 2p37952.D
 Acq On : 27 Jun 2014 7:28 pm
 Operator : elwiraa
 Sample : icv1583-50
 Misc : op75638,e2p1584,
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jul 02 16:56:18 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Wed Jul 02 14:21:35 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.266	152	1105743	40.00	ppb	0.00
24) Naphthalene-d8	5.320	136	4123651	40.00	ppb	0.00
47) Acenaphthene-d10	6.753	164	2210589	40.00	ppb	0.00
69) Phenanthrene-d10	7.989	188	3898771	40.00	ppb	0.00
83) Chrysene-d12	11.118	240	3831373	40.00	ppb	0.00
92) Perylene-d12	13.097	264	3387942	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	4.266	152	1105743	40.00	ppb	0.00
104) Acenaphthene-d10a	6.753	164	2210589	40.00	ppb	0.00
107) Chrysene-d12a	11.118	240	3831373	40.00	ppb	0.00
109) Naphthalene-d8a	5.320	136	4123651	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.164	112	1474816	44.86	ppb	0.00
Spiked Amount 50.000	Range 11 - 58		Recovery =	89.72%#		
8) Phenol-d5	4.025	99	1865053	50.19	ppb	0.00
Spiked Amount 50.000	Range 10 - 59		Recovery =	100.38%#		
25) Nitrobenzene-d5	4.737	82	1535173	45.24	ppb	0.00
Spiked Amount 50.000	Range 19 - 61		Recovery =	90.48%#		
51) 2-Fluorobiphenyl	6.213	172	3189189	47.51	ppb	0.00
Spiked Amount 50.000	Range 21 - 58		Recovery =	95.02%#		
73) 2,4,6-Tribromophenol	7.406	330	487835	44.13	ppb	0.00
Spiked Amount 50.000	Range 12 - 68		Recovery =	88.26%#		
85) Terphenyl-d14	9.732	244	3571449	46.57	ppb	0.00
Spiked Amount 50.000	Range 16 - 65		Recovery =	93.14%#		

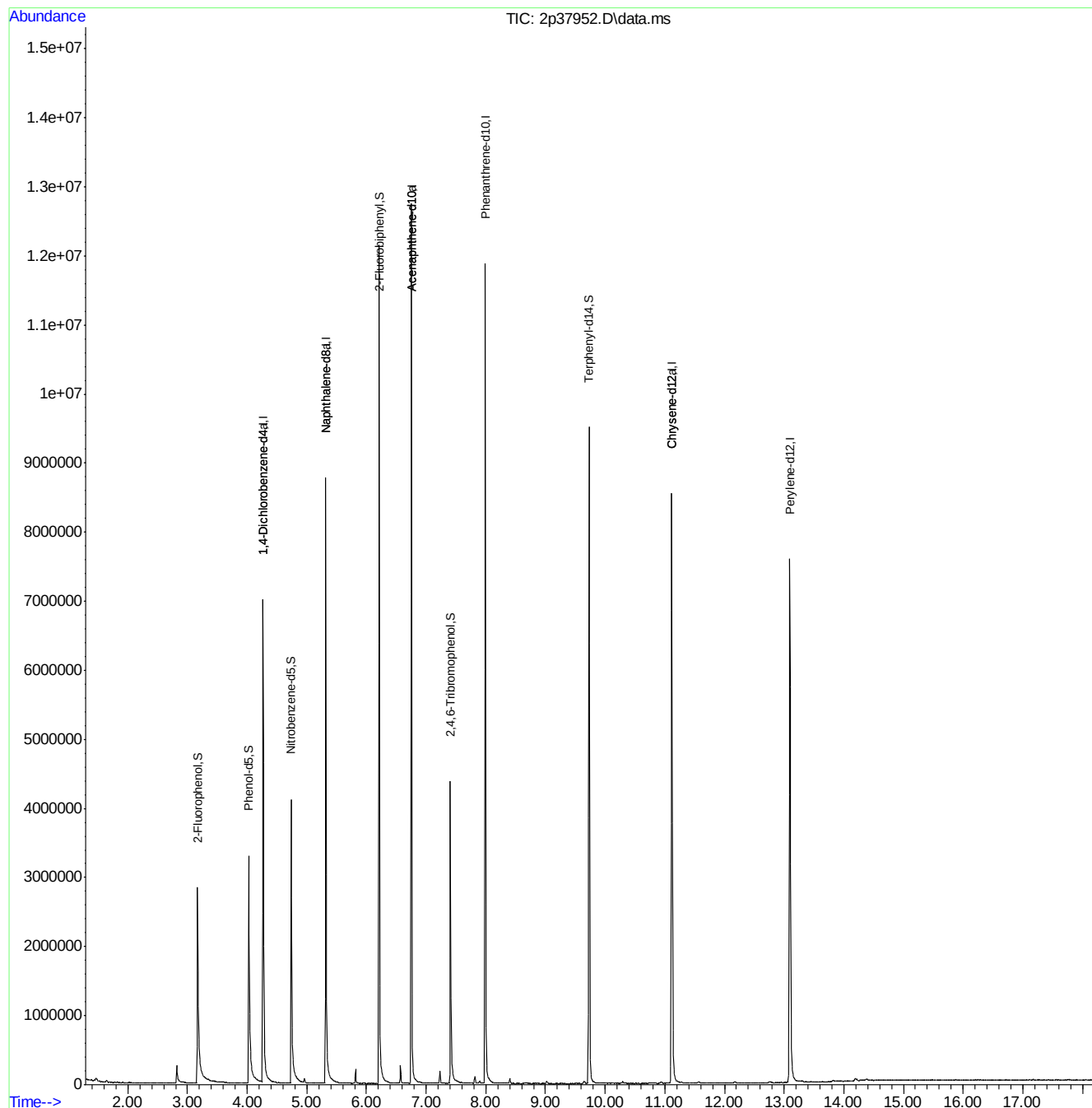
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1583\
Data File : 2p37952.D
Acq On : 27 Jun 2014 7:28 pm
Operator : elwiraa
Sample : icv1583-50
Misc : op75638,e2p1584,
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jul 02 16:56:18 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 02 14:21:35 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1583\
 Data File : 2p37953.D
 Acq On : 27 Jun 2014 7:51 pm
 Operator : elwiraa
 Sample : icv1583-50
 Misc : op75638,e2p1584,
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 30 10:17:48 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Mon Jun 30 08:35:13 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.271	152	1010408	40.00	ppb	0.00
24) Naphthalene-d8	5.320	136	3845086	40.00	ppb	0.00
47) Acenaphthene-d10	6.753	164	2024051	40.00	ppb	0.00
69) Phenanthrene-d10	7.989	188	3566464	40.00	ppb	0.00
83) Chrysene-d12	11.118	240	3552567	40.00	ppb	0.00
92) Perylene-d12	13.097	264	3040450	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	4.271	152	1010408	40.00	ppb	0.00
104) Acenaphthene-d10a	6.753	164	2024051	40.00	ppb	0.00
107) Chrysene-d12a	11.118	240	3552567	40.00	ppb	0.00
110) Phenanthrene-d10a	7.989	188	3566464	40.00	ppb	0.00
112) Naphthalene-d8a	5.320	136	3845086	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

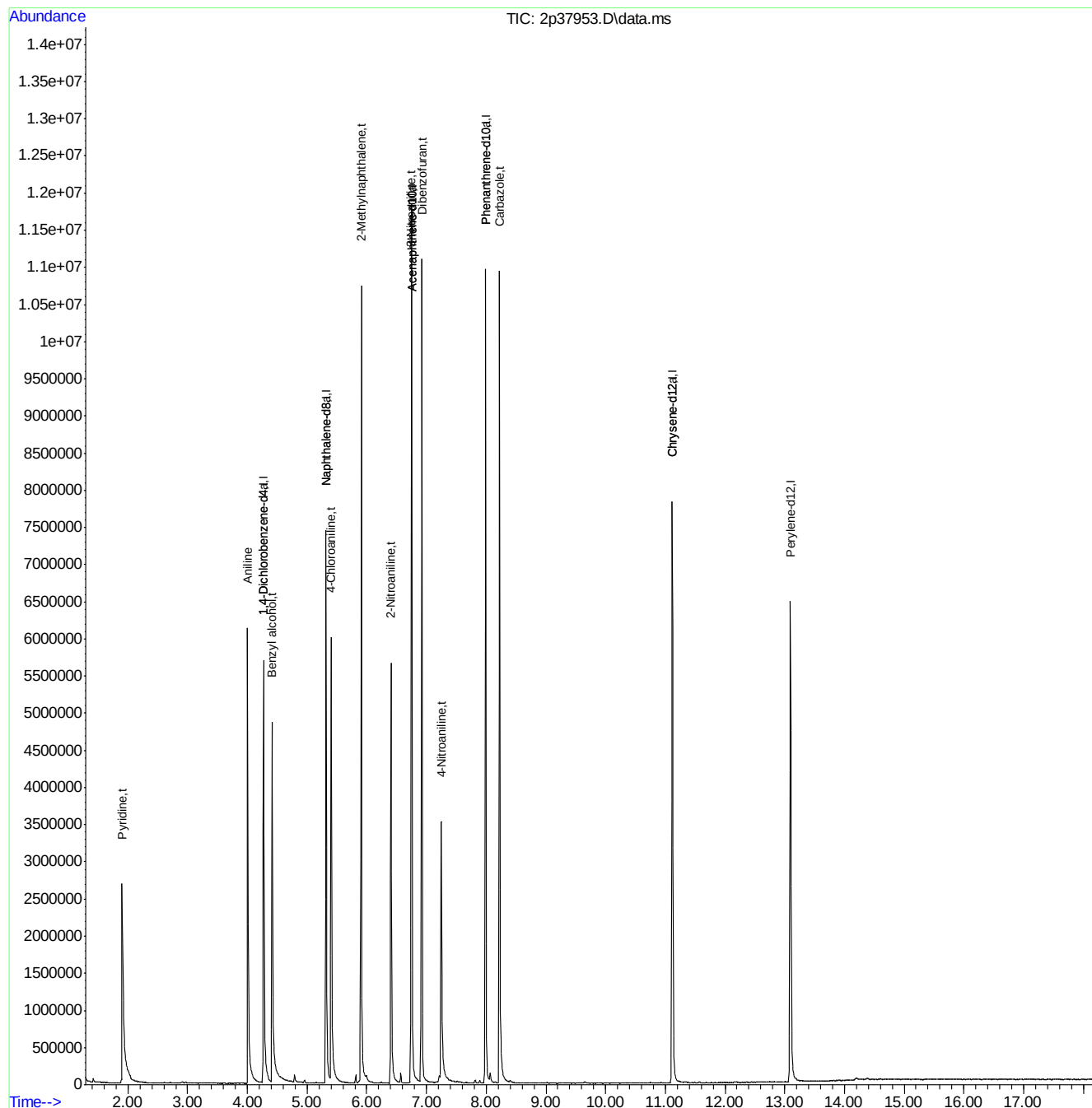
						Qvalue
3) Pyridine	1.902	79	1936990	59.01	ppb	96
10) Aniline	4.004	93	2582816	64.59	ppb	92
16) Benzyl alcohol	4.410	108	963541	54.44	ppb	80
39) 4-Chloroaniline	5.400	127	2186003	54.40	ppb	95
44) 2-Methylnaphthalene	5.908	141	2823199	50.49	ppb	98
54) 2-Nitroaniline	6.405	65	822080	53.38	ppb	92
58) 3-Nitroaniline	6.748	138	856160	52.36	ppb	95
62) Dibenzofuran	6.924	168	4147161	53.57	ppb	98
68) 4-Nitroaniline	7.250	138	814188	51.08	ppb	98
79) Carbazole	8.224	167	4539877	51.35	ppb	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1583\
Data File : 2p37953.D
Acq On : 27 Jun 2014 7:51 pm
Operator : elwiraa
Sample : icv1583-50
Misc : op75638,e2p1584,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 30 10:17:48 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 30 08:35:13 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1583\
 Data File : 2p37954.D
 Acq On : 27 Jun 2014 8:14 pm
 Operator : elwiraa
 Sample : icv1583-50
 Misc : op75638,e2p1584,
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 30 11:36:42 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Mon Jun 30 11:32:39 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.266	152	949525	40.00	ppb	0.00
24) Naphthalene-d8	5.320	136	3292698	40.00	ppb	0.00
47) Acenaphthene-d10	6.753	164	1866257	40.00	ppb	0.00
69) Phenanthrene-d10	7.989	188	3070163	40.00	ppb	0.00
83) Chrysene-d12	11.118	240	3221567	40.00	ppb	0.00
92) Perylene-d12	13.097	264	2952325	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	4.266	152	949525	40.00	ppb	0.00
104) Acenaphthene-d10a	6.753	164	1866257	40.00	ppb	0.00
107) Chrysene-d12a	11.118	240	3221567	40.00	ppb	0.00
110) Phenanthrene-d10a	7.989	188	3070163	40.00	ppb	0.00
112) Naphthalene-d8a	5.320	136	3292698	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	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) O-terphenyl	0.000	230	0	0.00	ppb	

Target Compounds

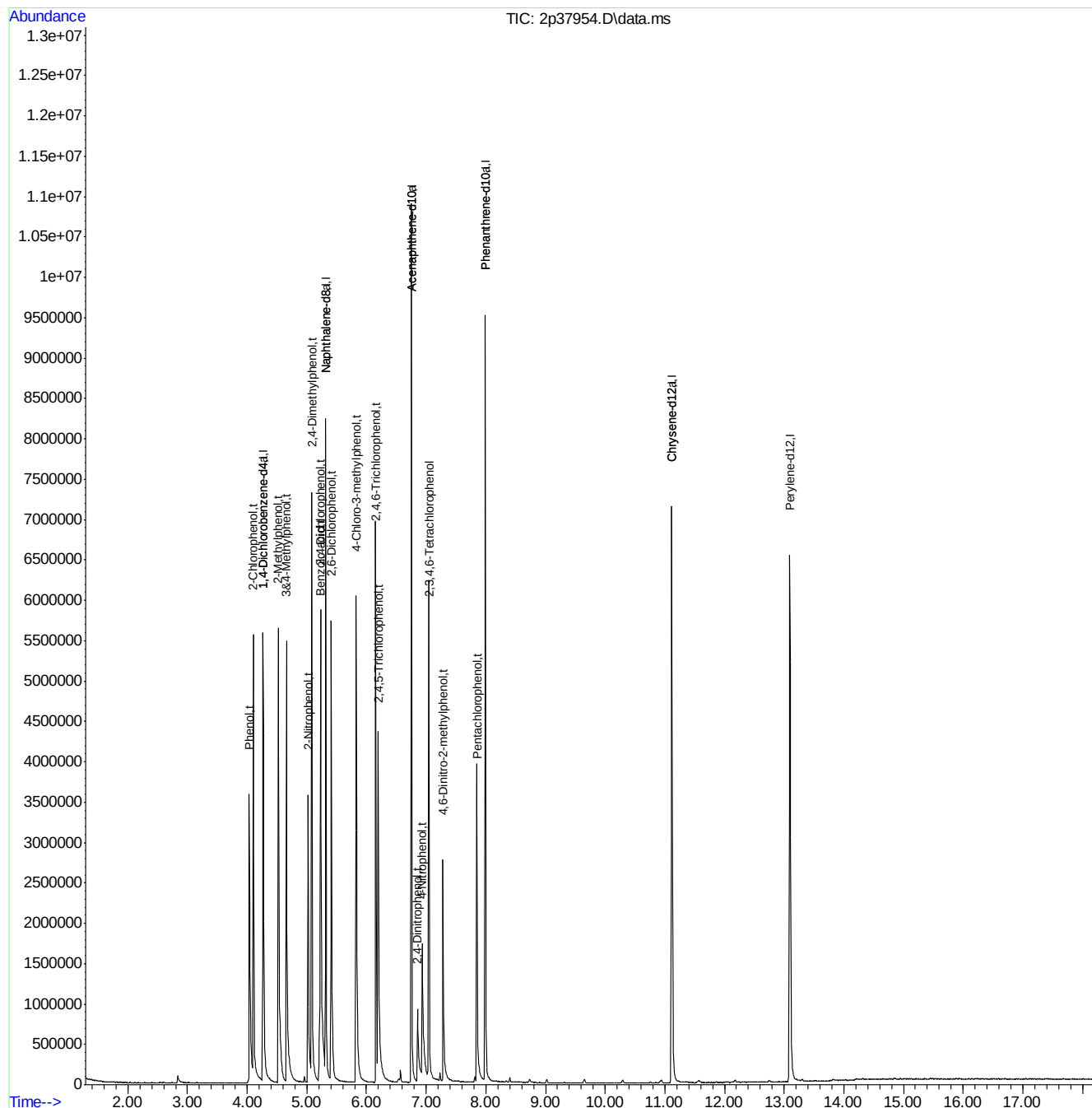
						Qvalue
9) Phenol	4.036	94	1947009	53.11	ppb	95
12) 2-Chlorophenol	4.106	128	1678256	54.09	ppb	97
19) 2-Methylphenol	4.523	108	1366157	51.90	ppb	98
21) 3&4-Methylphenol	4.656	108	1412118	49.86	ppb	99
29) 2-Nitrophenol	5.020	139	843197	54.89	ppb	# 73
30) 2,4-Dimethylphenol	5.084	107	1433479	62.14	ppb	99
31) Benzoic acid	5.234	105	764669	38.56	ppb	97
33) 2,4-Dichlorophenol	5.229	162	1252286	54.44	ppb	97
34) 2,6-Dichlorophenol	5.405	162	1248685	54.86	ppb	98
43) 4-Chloro-3-methylphenol	5.828	107	1226002	54.70	ppb	100
49) 2,4,6-Trichlorophenol	6.159	196	928357	57.18	ppb	97
50) 2,4,5-Trichlorophenol	6.197	196	1009710	52.51	ppb	96
60) 2,4-Dinitrophenol	6.855	184	272031	36.15	ppb	98
61) 4-Nitrophenol	6.935	109	310942	50.60	ppb	94
64) 2,3,4,6-Tetrachlorophenol	7.047	232	767645	50.97	ppb	99
70) 4,6-Dinitro-2-methylph...	7.283	198	462759	49.05	ppb	98
76) Pentachlorophenol	7.850	266	504826	49.35	ppb	97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1583\
Data File : 2p37954.D
Acq On : 27 Jun 2014 8:14 pm
Operator : elwiraa
Sample : icv1583-50
Misc : op75638,e2p1584,
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 30 11:36:42 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 30 11:32:39 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1583\
 Data File : 2p37955a.D
 Acq On : 27 Jun 2014 8:36 pm
 Operator : elwiraa
 Sample : icv1583-50
 Misc : op75638,e2p1584,
 ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jul 01 12:16:48 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Mon Jun 30 16:21:18 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.266	152	926774	40.00	ppb	0.00
24) Naphthalene-d8	5.320	136	3550167	40.00	ppb	0.00
47) Acenaphthene-d10	6.753	164	1922373	40.00	ppb	0.00
69) Phenanthrene-d10	7.989	188	3318486	40.00	ppb	0.00
83) Chrysene-d12	11.118	240	3313064	40.00	ppb	0.00
92) Perylene-d12	13.097	264	3030517	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	4.266	152	926774	40.00	ppb	0.00
104) Acenaphthene-d10a	6.753	164	1922373	40.00	ppb	0.00
107) Chrysene-d12a	11.118	240	3313064	40.00	ppb	0.00
110) Phenanthrene-d10a	7.989	188	3318486	40.00	ppb	0.00
112) Naphthalene-d8a	5.320	136	3550167	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

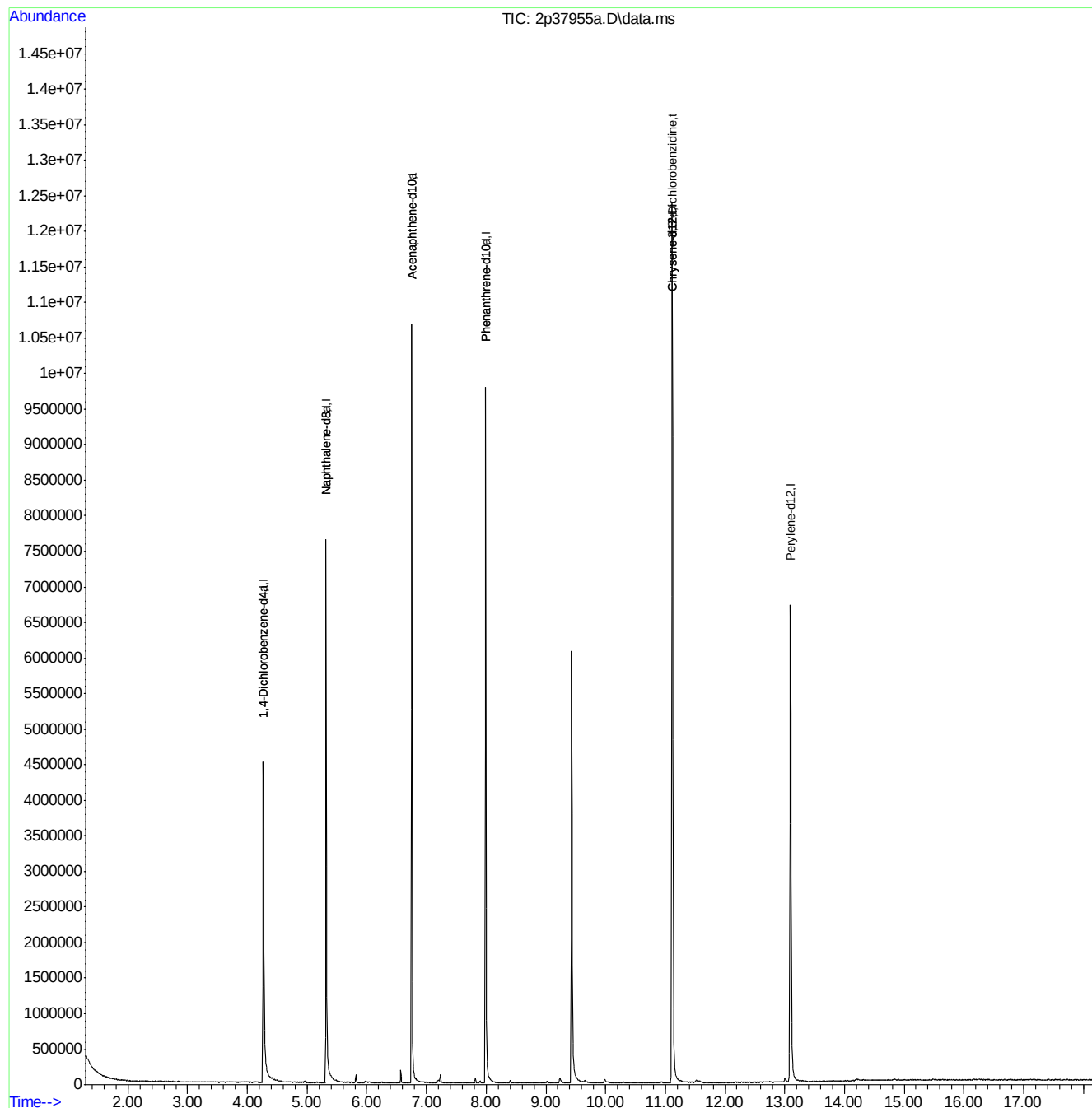
						Qvalue
89) 3,3'-Dichlorobenzidine	11.112	252	1564618	46.26	ppb	# 73

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1583\
Data File : 2p37955a.D
Acq On : 27 Jun 2014 8:36 pm
Operator : elwiraa
Sample : icv1583-50
Misc : op75638,e2p1584,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jul 01 12:16:48 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 30 16:21:18 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1583\
 Data File : 2p37955.D
 Acq On : 27 Jun 2014 8:36 pm
 Operator : elwiraa
 Sample : icv1584-50
 Misc : op75638,e2p1584,
 ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jul 01 12:14:02 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Mon Jun 30 16:21:18 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.266	152	926774	40.00	ppb	0.00
24) Naphthalene-d8	5.320	136	3550167	40.00	ppb	0.00
47) Acenaphthene-d10	6.753	164	1922373	40.00	ppb	0.00
69) Phenanthrene-d10	7.989	188	3318486	40.00	ppb	0.00
83) Chrysene-d12	11.118	240	3313064	40.00	ppb	0.00
92) Perylene-d12	13.097	264	3030517	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	4.266	152	926774	40.00	ppb	0.00
104) Acenaphthene-d10a	6.753	164	1922373	40.00	ppb	0.00
107) Chrysene-d12a	11.118	240	3313064	40.00	ppb	0.00
110) Phenanthrene-d10a	7.989	188	3318486	40.00	ppb	0.00
112) Naphthalene-d8a	5.320	136	3550167	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

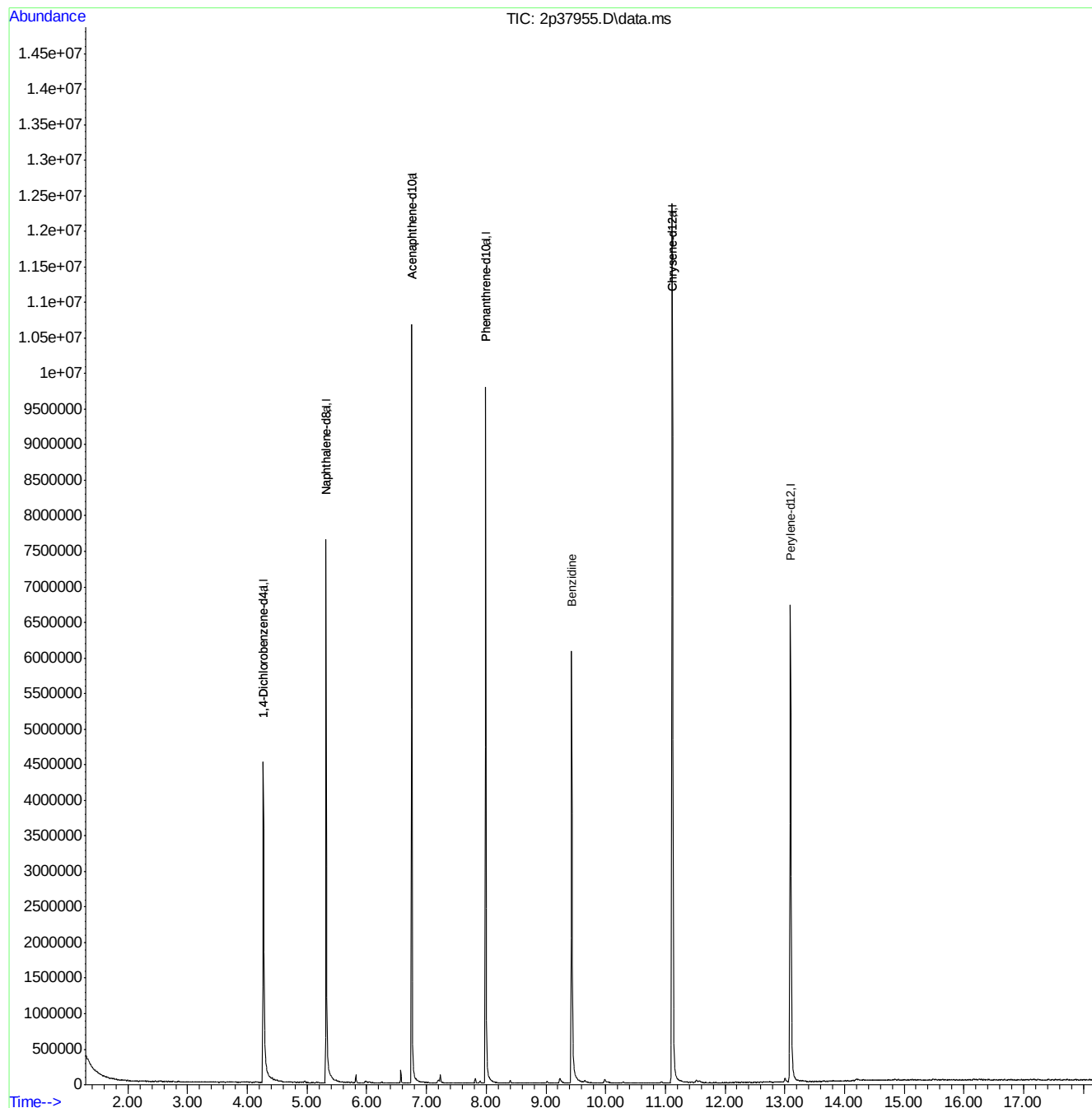
						Qvalue
109) Benzidine	9.433	184	2897447	58.95	ppb	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1583\
Data File : 2p37955.D
Acq On : 27 Jun 2014 8:36 pm
Operator : elwiraa
Sample : icv1584-50
Misc : op75638,e2p1584,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jul 01 12:14:02 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 30 16:21:18 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1583\
 Data File : 2p37956.D
 Acq On : 27 Jun 2014 8:59 pm
 Operator : elwiraa
 Sample : icv1584-50
 Misc : op75638,e2p1584,
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 30 10:14:28 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Mon Jun 30 08:35:13 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.266	152	1294280	40.00	ppb	0.00
24) Naphthalene-d8	5.320	136	4876827	40.00	ppb	0.00
47) Acenaphthene-d10	6.753	164	2505291	40.00	ppb	0.00
69) Phenanthrene-d10	7.989	188	4280547	40.00	ppb	0.00
83) Chrysene-d12	11.118	240	4307961	40.00	ppb	0.00
92) Perylene-d12	13.097	264	3854433	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	4.266	152	1294280	40.00	ppb	0.00
104) Acenaphthene-d10a	6.753	164	2505291	40.00	ppb	0.00
107) Chrysene-d12a	11.118	240	4307961	40.00	ppb	0.00
110) Phenanthrene-d10a	7.989	188	4280547	40.00	ppb	0.00
112) Naphthalene-d8a	5.320	136	4876827	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	0d	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	5.737	110	2275877	60.29	ppb	99

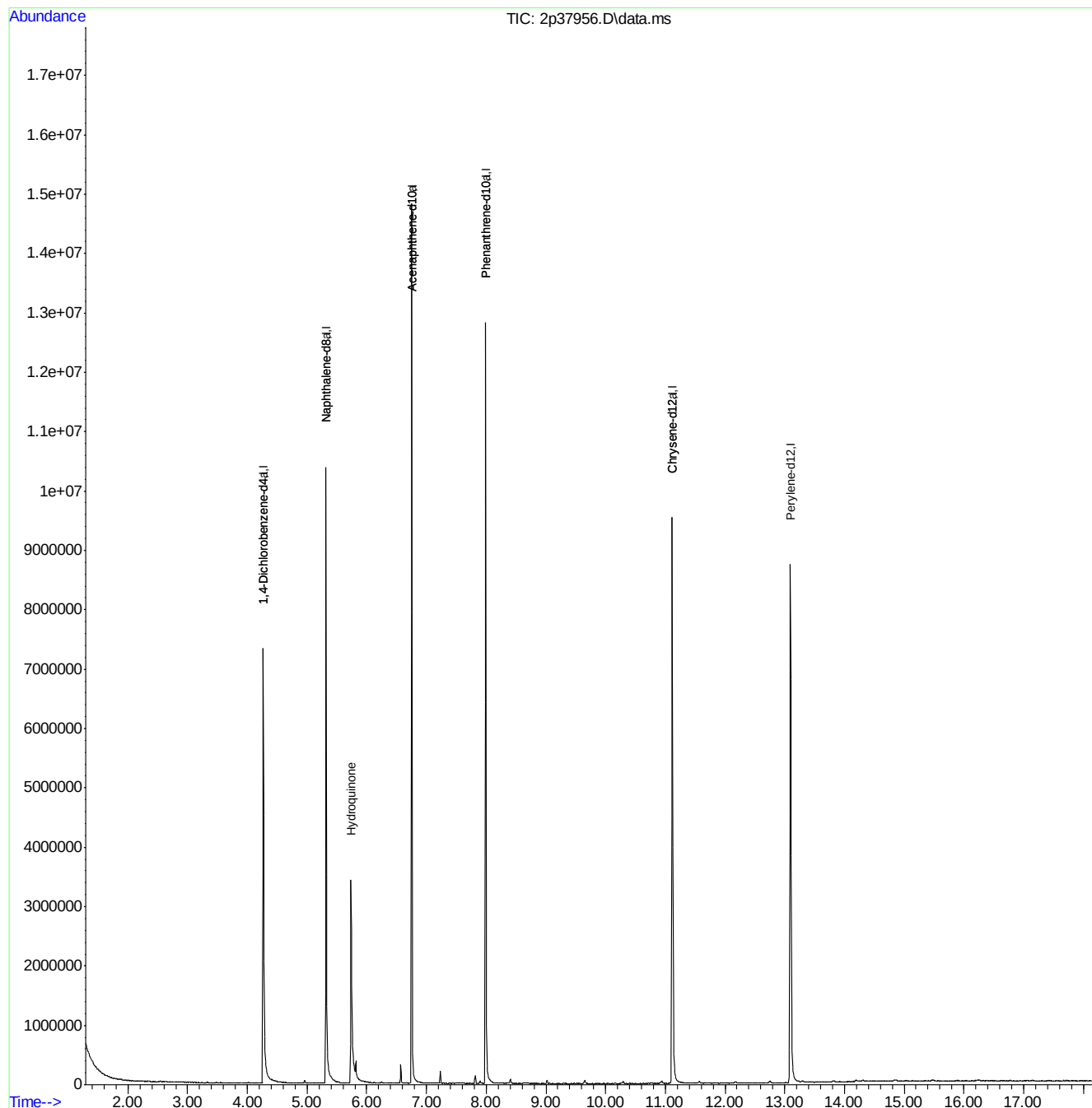
(#) = qualifier out of range (m) = manual integration (+) = signals summed

9.6.24
9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1583\
Data File : 2p37956.D
Acq On : 27 Jun 2014 8:59 pm
Operator : elwiraa
Sample : icv1584-50
Misc : op75638,e2p1584,
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 30 10:14:28 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 30 08:35:13 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1585\
 Data File : 2p37961a.D
 Acq On : 30 Jun 2014 9:29 am
 Operator : elwiraa
 Sample : icv1583-50
 Misc : op75638,e2p1585,
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 01 12:31:15 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Mon Jun 30 08:35:13 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.266	152	1066043	40.00	ppb	0.00
24) Naphthalene-d8	5.320	136	3726359	40.00	ppb	0.00
47) Acenaphthene-d10	6.753	164	2019874	40.00	ppb	0.00
69) Phenanthrene-d10	7.994	188	3564052	40.00	ppb	0.00
83) Chrysene-d12	11.123	240	3439052	40.00	ppb	0.00
92) Perylene-d12	13.102	264	3270804	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	4.266	152	1066043	40.00	ppb	0.00
104) Acenaphthene-d10a	6.753	164	2019874	40.00	ppb	0.00
107) Chrysene-d12a	11.123	240	3439052	40.00	ppb	0.00
110) Phenanthrene-d10a	7.994	188	3564052	40.00	ppb	0.00
112) Naphthalene-d8a	5.320	136	3726359	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	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	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	0d	0.00	ppb	
Spiked Amount	50.000	Range	16 - 65	Recovery	=	0.00%#
108) 1-chlorooctadecane	0.000	57	0d	0.00	ppb	
111) O-terphenyl	0.000	230	0	0.00	ppb	

Target Compounds

Qvalue

4) N-Nitrosodimethylamine	1.736	74	842989	40.36	ppb	97
11) bis(2-Chloroethyl)ether	4.063	93	1351512	46.77	ppb	96
14) 1,3-Dichlorobenzene	4.218	146	1871959	46.69	ppb	99
15) 1,4-Dichlorobenzene	4.282	146	1759804	42.86	ppb	100
17) 1,2-Dichlorobenzene	4.405	146	1694188	45.09	ppb	99
20) 2,2'-oxybis(1-Chloropr...	4.512	121	349851	45.69	ppb	89
22) n-Nitroso-di-n-propyla...	4.619	70	909461	46.17	ppb	95
23) Hexachloroethane	4.678	201	649097	42.76	ppb	97
26) Nitrobenzene	4.753	77	1404278	43.68	ppb	99
28) Isophorone	4.945	82	2371303	45.44	ppb	96
32) bis(2-Chloroethoxy)met...	5.143	93	1609064	51.02	ppb	99
36) 1,2,4-Trichlorobenzene	5.282	180	1439234	46.00	ppb	98
38) Naphthalene	5.336	128	3983087	46.44	ppb	100
42) Hexachlorobutadiene	5.448	225	804536	45.05	ppb	99
48) Hexachlorocyclopentadiene	6.036	237	510722	36.85	ppb	97
52) 2-Chloronaphthalene	6.304	162	2750368	49.33	ppb	97
55) Dimethylphthalate	6.555	163	2999034	47.67	ppb	99
56) Acenaphthylene	6.635	152	3591696	40.62	ppb	99
57) 2,6-Dinitrotoluene	6.609	165	650463	46.45	ppb	98
59) Acenaphthene	6.780	153	2724887	48.58	ppb	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1585\
 Data File : 2p37961a.D
 Acq On : 30 Jun 2014 9:29 am
 Operator : elwiraa
 Sample : icv1583-50
 Misc : op75638,e2p1585,
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 01 12:31:15 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Mon Jun 30 08:35:13 2014
 Response via : Initial Calibration

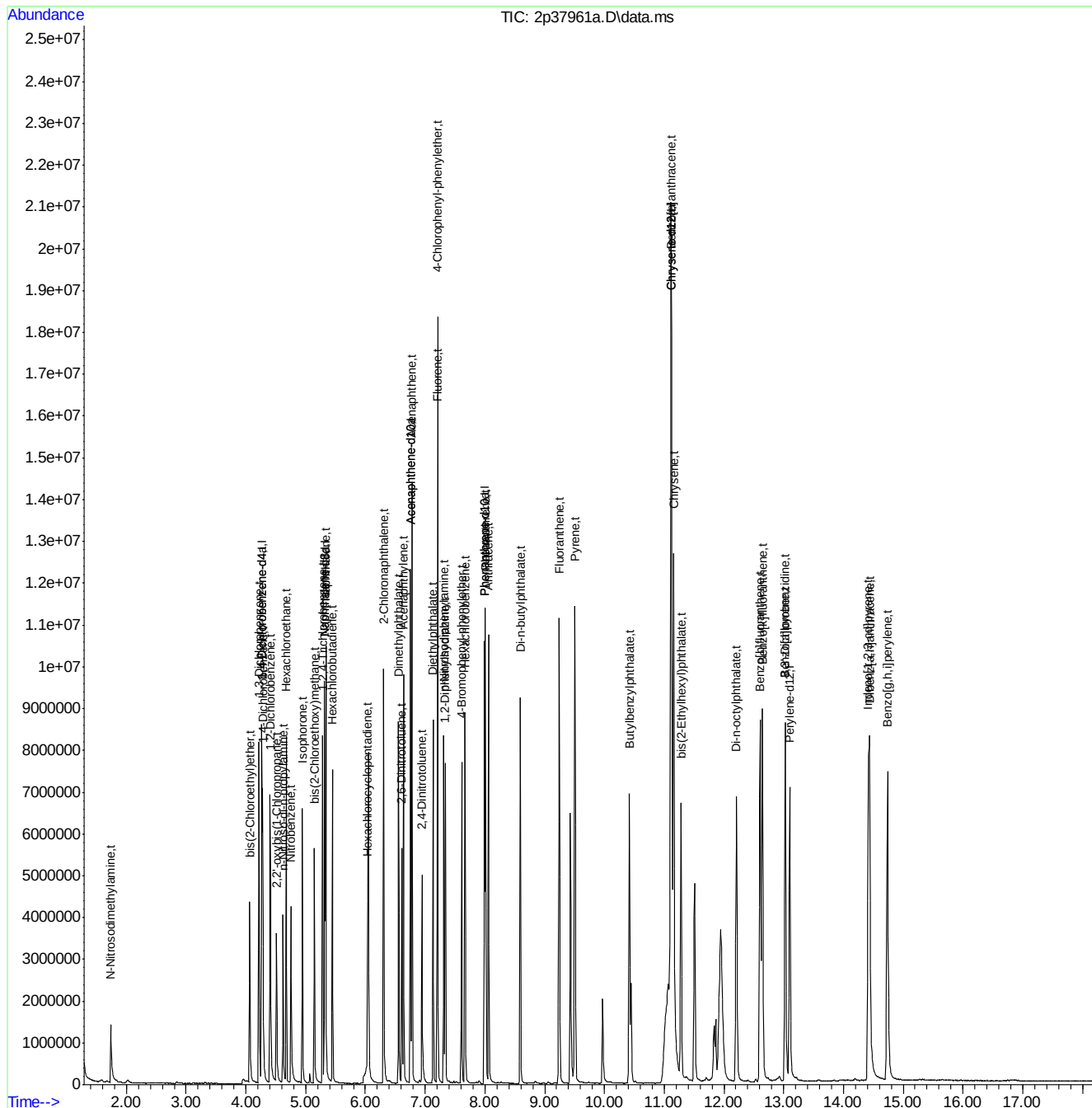
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
63)	2,4-Dinitrotoluene	6.946	165	859331	46.37	ppb	89
65)	Diethylphthalate	7.133	149	3039322	48.22	ppb	99
66)	Fluorene	7.202	166	2900481	47.83	ppb	99
67)	4-Chlorophenyl-phenyle...	7.208	204	1341752	47.34	ppb	100
71)	n-Nitrosodiphenylamine	7.315	169	1958088	46.17	ppb	99
72)	1,2-Diphenylhydrazine	7.336	77	2821560	47.19	ppb	93
74)	4-Bromophenyl-phenylether	7.609	248	871152	46.33	ppb	97
75)	Hexachlorobenzene	7.668	284	1036787	44.07	ppb	99
77)	Phenanthrene	8.015	178	4083293	47.28	ppb	100
78)	Anthracene	8.058	178	4125029	46.75	ppb	99
80)	Di-n-butylphthalate	8.593	149	5467269	52.40	ppb	100
81)	Fluoranthene	9.240	202	4992681	49.06	ppb	98
84)	Pyrene	9.508	202	5002923	47.79	ppb	99
86)	Butylbenzylphthalate	10.417	149	2436634	51.70	ppb	98
88)	Benzo[a]anthracene	11.112	228	4426372	45.65	ppb	100
89)	3,3'-Dichlorobenzidine	13.027	252	4489783	52.82	ppb	100
90)	Chrysene	11.160	228	4199625	49.13	ppb	98
91)	bis(2-Ethylhexyl)phtha...	11.283	149	3240913	52.10	ppb	99
93)	Di-n-octylphthalate	12.209	149	5751258	54.68	ppb	100
94)	Benzo[b]fluoranthene	12.610	252	4826812	50.40	ppb	97
95)	Benzo[k]fluoranthene	12.642	252	4409892	49.32	ppb	99
96)	Benzo[a]pyrene	13.027	252	4489783	53.65	ppb	99
97)	Indeno[1,2,3-cd]pyrene	14.418	276	5168579	50.03	ppb	98
99)	Dibenz[a,h]anthracene	14.439	278	3967654	48.87	ppb	100
101)	Benzo[g,h,i]perylene	14.739	276	4421140	51.68	ppb	97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1585\
Data File : 2p37961a.D
Acq On : 30 Jun 2014 9:29 am
Operator : elwiraa
Sample : icv1583-50
Misc : op75638,e2p1585,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 01 12:31:15 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 30 08:35:13 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1585\
 Data File : 2p37961.D
 Acq On : 30 Jun 2014 9:29 am
 Operator : elwiraa
 Sample : icv1584-50
 Misc : op75638,e2p1585,
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 01 12:34:07 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Mon Jun 30 08:35:13 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.266	152	1066043	40.00	ppb	0.00
24) Naphthalene-d8	5.320	136	3726359	40.00	ppb	0.00
47) Acenaphthene-d10	6.753	164	2019874	40.00	ppb	0.00
69) Phenanthrene-d10	7.994	188	3564052	40.00	ppb	0.00
83) Chrysene-d12	11.123	240	3439052	40.00	ppb	0.00
92) Perylene-d12	13.102	264	3270804	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	4.266	152	1066043	40.00	ppb	0.00
104) Acenaphthene-d10a	6.753	164	2019874	40.00	ppb	0.00
107) Chrysene-d12a	11.123	240	3439052	40.00	ppb	0.00
110) Phenanthrene-d10a	7.994	188	3564052	40.00	ppb	0.00
112) Naphthalene-d8a	5.320	136	3726359	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	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	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	0d	0.00	ppb	
Spiked Amount	50.000	Range	16 - 65	Recovery	=	0.00%#
108) 1-chlorooctadecane	0.000	57	0d	0.00	ppb	
111) O-terphenyl	0.000	230	0	0.00	ppb	

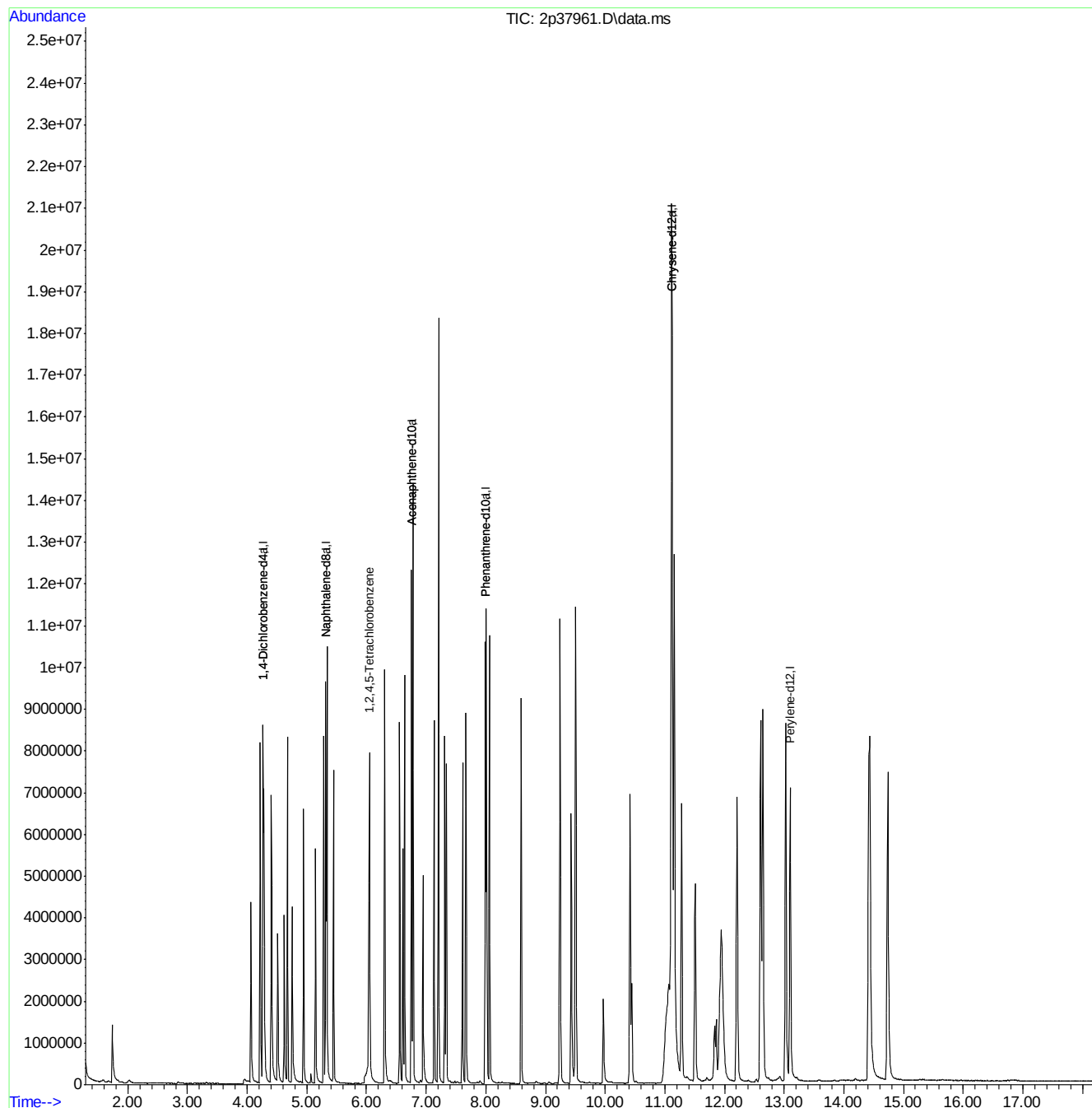
Target Compounds						Qvalue
106) 1,2,4,5-Tetrachloroben...	6.052	216	1449482	41.78	ppb	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1585\
Data File : 2p37961.D
Acq On : 30 Jun 2014 9:29 am
Operator : elwiraa
Sample : icv1584-50
Misc : op75638,e2p1585,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 01 12:34:07 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 30 08:35:13 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1594\
 Data File : 2p38159.D
 Acq On : 5 Jul 2014 11:36 am
 Operator : andrews1
 Sample : cc1583-50
 Misc : op75909,e2p1594,
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 08 18:10:26 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Wed Jul 02 14:21:35 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.234	152	1381256	40.00	ppb	-0.03
24) Naphthalene-d8	5.293	136	4995170	40.00	ppb	-0.03
47) Acenaphthene-d10	6.726	164	2997005	40.00	ppb	-0.03
69) Phenanthrene-d10	7.967	188	4960477	40.00	ppb	-0.03
83) Chrysene-d12	11.101	240	4950389	40.00	ppb	-0.02
92) Perylene-d12	13.091	264	4275582	40.00	ppb	-0.01
102) 1,4-Dichlorobenzene-d4a	4.234	152	1381256	40.00	ppb	-0.03
104) Acenaphthene-d10a	6.726	164	2998141	40.00	ppb	-0.03
107) Chrysene-d12a	11.101	240	4950389	40.00	ppb	-0.02
109) Naphthalene-d8a	5.293	136	4995170	40.00	ppb	-0.03

System Monitoring Compounds

5) 2-Fluorophenol	3.196	112	1826787	44.48	ppb	0.03
Spiked Amount	50.000	Range	11 - 58	Recovery	=	88.96%#
8) Phenol-d5	4.047	99	2777312	59.83	ppb	0.02
Spiked Amount	50.000	Range	10 - 59	Recovery	=	119.66%#
25) Nitrobenzene-d5	4.721	82	2224050	54.10	ppb	-0.02
Spiked Amount	50.000	Range	19 - 61	Recovery	=	108.20%#
51) 2-Fluorobiphenyl	6.186	172	4306379	47.32	ppb	-0.03
Spiked Amount	50.000	Range	21 - 58	Recovery	=	94.64%#
73) 2,4,6-Tribromophenol	7.390	330	765917	54.46	ppb	-0.02
Spiked Amount	50.000	Range	12 - 68	Recovery	=	108.92%#
85) Terphenyl-d14	9.695	244	5060566	51.07	ppb	-0.04
Spiked Amount	50.000	Range	16 - 65	Recovery	=	102.14%#

Target Compounds

						Qvalue
2) 1,4-Dioxane	1.447	88	774550	41.22	ppb	100
3) Pyridine	1.784	79	1727883	38.50	ppb	95
4) N-Nitrosodimethylamine	1.736	74	1030688	38.15	ppb	90
6) Indene	4.448	116	3633418	51.88	ppb	99
7) Cumene	3.539	105	5317824	53.42	ppb	99
9) Phenol	4.063	94	2741523	51.41	ppb	94
10) Aniline	3.993	93	1966457	35.97	ppb	93
11) bis(2-Chloroethyl)ether	4.041	93	2198259	59.62	ppb	95
12) 2-Chlorophenol	4.100	128	2318100	51.36	ppb	97
13) Decane	4.116	57	1764296	51.46	ppb	99
14) 1,3-Dichlorobenzene	4.186	146	2624406	50.52	ppb	100
15) 1,4-Dichlorobenzene	4.250	146	2605178	48.97	ppb	99
16) Benzyl alcohol	4.416	108	1275659	52.73	ppb	86
17) 1,2-Dichlorobenzene	4.378	146	2511583	51.59	ppb	99
18) Acetophenone	4.603	105	2924669	50.49	ppb	96
19) 2-Methylphenol	4.539	108	2023455	52.41	ppb	98
20) 2,2'-oxybis(1-Chloropr...	4.485	121	505569	50.95	ppb	# 83
21) 3&4-Methylphenol	4.678	108	2106587	51.43	ppb	99
22) n-Nitroso-di-n-propyla...	4.614	70	1361560	53.34	ppb	98
23) Hexachloroethane	4.640	201	985346	50.09	ppb	94
26) Nitrobenzene	4.737	77	2329547	54.05	ppb	97
27) Quinoline	5.619	129	4581682	52.20	ppb	99
28) Isophorone	4.940	82	3788884	54.16	ppb	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1594\
 Data File : 2p38159.D
 Acq On : 5 Jul 2014 11:36 am
 Operator : andrews1
 Sample : cc1583-50
 Misc : op75909,e2p1594,
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 08 18:10:26 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Wed Jul 02 14:21:35 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
29) 2-Nitrophenol	4.999	139	1267934	54.41	ppb	95
30) 2,4-Dimethylphenol	5.084	107	2028233	57.95	ppb	99
31) Benzoic acid	5.271	105	1667593	52.10	ppb	93
32) bis(2-Chloroethoxy)met...	5.122	93	2238271	52.94	ppb	100
33) 2,4-Dichlorophenol	5.239	162	1856834	53.21	ppb	97
34) 2,6-Dichlorophenol	5.394	162	1883060	54.53	ppb	99
35) 1,3,5-Trichlorobenzene	4.993	180	2319133	52.29	ppb	99
36) 1,2,4-Trichlorobenzene	5.250	180	2136595	50.94	ppb	99
37) 1,2,3-Trichlorobenzene	5.432	180	2075399	50.86	ppb	99
38) Naphthalene	5.309	128	6040660	52.54	ppb	100
39) 4-Chloroaniline	5.400	127	2019193	38.68	ppb	97
40) 2,3-Dichloroaniline	6.133	161	2308900	49.63	ppb	98
41) Caprolactam	5.737	113	558731	50.66	ppb	93
42) Hexachlorobutadiene	5.411	225	1215155	50.76	ppb	98
43) 4-Chloro-3-methylphenol	5.849	107	1831526	53.86	ppb	97
44) 2-Methylnaphthalene	5.881	141	3762187	51.79	ppb	98
45) 1-Methylnaphthalene	5.956	141	3710709	49.01	ppb	99
46) Dimethylnaphthalene	6.389	156	3720283	52.61	ppb	99
48) Hexachlorocyclopentadiene	6.004	237	2196734	100.97	ppb	98
49) 2,4,6-Trichlorophenol	6.149	196	1357059	52.05	ppb	99
50) 2,4,5-Trichlorophenol	6.207	196	1501387m	48.63	ppb	
52) 2-Chloronaphthalene	6.277	162	3833225	46.33	ppb	99
53) Biphenyl	6.261	154	4938763	47.58	ppb	99
54) 2-Nitroaniline	6.405	65	1102497	48.35	ppb	92
55) Dimethylphthalate	6.534	163	4514099	48.36	ppb	99
56) Acenaphthylene	6.614	152	6443867	49.11	ppb	100
57) 2,6-Dinitrotoluene	6.593	165	1022267	49.20	ppb	100
58) 3-Nitroaniline	6.753	138	989690	40.88	ppb	96
59) Acenaphthene	6.753	153	4037262	48.51	ppb	99
60) 2,4-Dinitrophenol	6.844	184	1292747	90.82	ppb	98
61) 4-Nitrophenol	6.994	109	615759m	62.39	ppb	
62) Dibenzofuran	6.897	168	5642165	49.22	ppb	97
63) 2,4-Dinitrotoluene	6.935	165	1396006	50.77	ppb	69
64) 2,3,4,6-Tetrachlorophenol	7.037	232	1260006	52.10	ppb	98
65) Diethylphthalate	7.106	149	4504757	48.17	ppb	99
66) Fluorene	7.176	166	4258400	47.33	ppb	99
67) 4-Chlorophenyl-phenyle...	7.176	204	2001908	47.60	ppb	99
68) 4-Nitroaniline	7.266	138	1132338	47.97	ppb	97
70) 4,6-Dinitro-2-methylph...	7.272	198	822615	53.96	ppb	98
71) n-Nitrosodiphenylamine	7.288	169	2930453	49.65	ppb	99
72) 1,2-Diphenylhydrazine	7.309	77	4680866	56.25	ppb	97
74) 4-Bromophenyl-phenylether	7.577	248	1344703	51.38	ppb	100
75) Hexachlorobenzene	7.636	284	1649080	50.36	ppb	96
76) Pentachlorophenol	7.833	266	1918196	116.06	ppb	98
77) Phenanthrene	7.989	178	6068376	50.49	ppb	99
78) Anthracene	8.037	178	6551867	53.35	ppb	99
79) Carbazole	8.219	167	6506263	52.91	ppb	99
80) Di-n-butylphthalate	8.556	149	8175174	56.30	ppb	100
81) Fluoranthene	9.213	202	7440867	52.54	ppb	98
82) Octadecane	7.887	43	1550697	53.99	ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1594\
 Data File : 2p38159.D
 Acq On : 5 Jul 2014 11:36 am
 Operator : andrews1
 Sample : cc1583-50
 Misc : op75909,e2p1594,
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 08 18:10:26 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Wed Jul 02 14:21:35 2014
 Response via : Initial Calibration

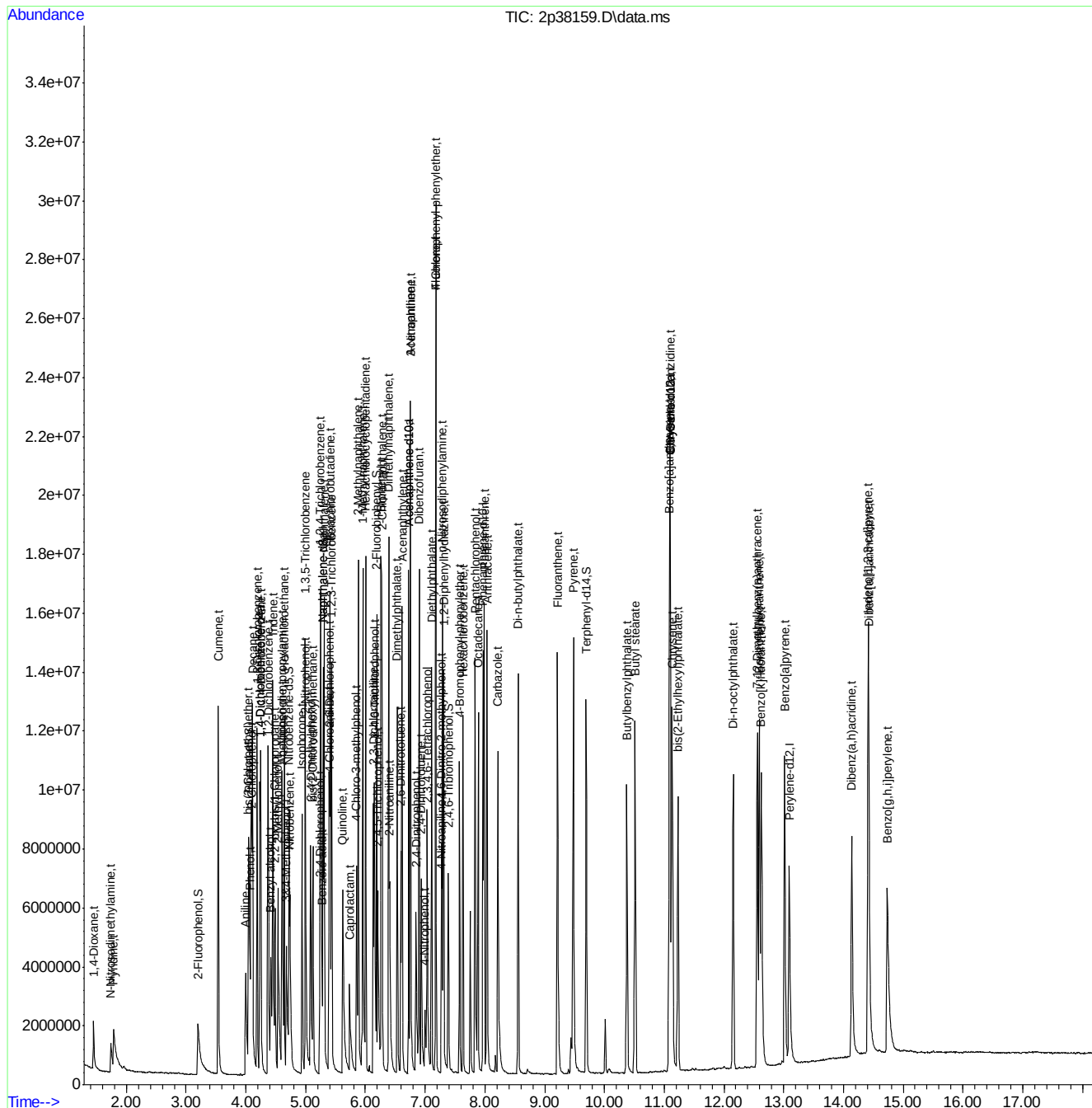
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
84) Pyrene	9.481	202	7573789	50.26	ppb	99
86) Butylbenzylphthalate	10.374	149	3595338	52.99	ppb	96
87) Butyl stearate	10.513	56	2231091	55.24	ppb	98
88) Benzo[a]anthracene	11.085	228	6875250	49.26	ppb	99
89) 3,3'-Dichlorobenzidine	11.101	252	2258996	44.53	ppb	# 74
90) Chrysene	11.139	228	6049796	49.17	ppb	100
91) bis(2-Ethylhexyl)phtha...	11.230	149	4730206	52.83	ppb	99
93) Di-n-octylphthalate	12.155	149	8233435	59.89	ppb	99
94) Benzo[b]fluoranthene	12.594	252	6001791	47.94	ppb	96
95) Benzo[k]fluoranthene	12.626	252	6130066	52.44	ppb	98
96) Benzo[a]pyrene	13.016	252	5913247	54.06	ppb	98
97) Indeno[1,2,3-cd]pyrene	14.412	276	6671829	49.40	ppb	99
98) Dibenz(a,h)acridine	14.140	279	4830688	50.39	ppb	98
99) Dibenz[a,h]anthracene	14.423	278	5324653	50.17	ppb	96
100) 7,12-Dimethylbenz(a)an...	12.556	256	3014501	57.67	ppb	98
101) Benzo[g,h,i]perylene	14.733	276	5160391	46.14	ppb	96

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1594\
Data File : 2p38159.D
Acq On : 5 Jul 2014 11:36 am
Operator : andrews1
Sample : cc1583-50
Misc : op75909,e2p1594,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 08 18:10:26 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 02 14:21:35 2014
Response via : Initial Calibration



9.6.27

Manual Integration Approval Summary

Sample Number: E2P1594-CC1583

Method: SW846 8270D

Lab FileID: 2P38159.D

Analyst approved: 07/08/14 18:12 Ashley Dye

Injection Time: 07/05/14 11:36

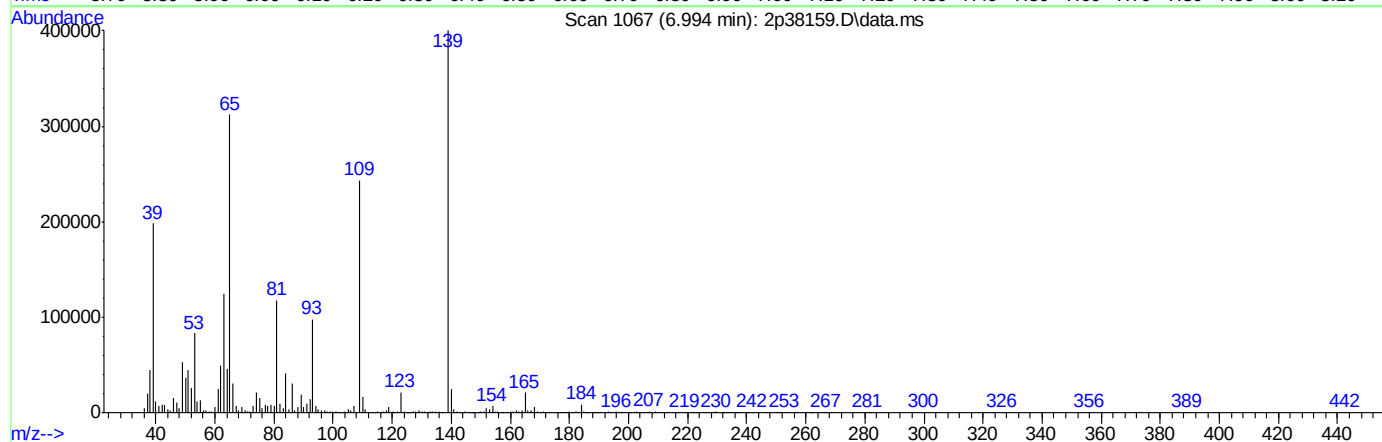
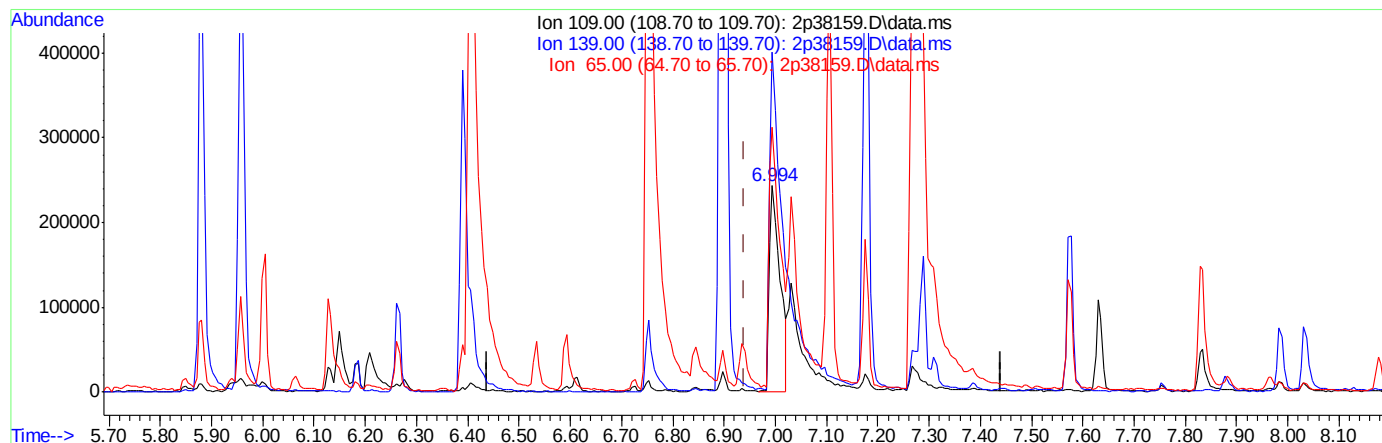
Supervisor approved: 07/08/14 18:14 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
2,4,5-Trichlorophenol	95-95-4		6.21	Overlapping peak
4-Nitrophenol	100-02-7		6.99	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1594\
Data File : 2p38159.D
Acq On : 5 Jul 2014 11:36 am
Operator : andrews1
Sample : cc1583-50
Misc : op75909,e2p1594,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 05 16:10:20 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 02 14:21:35 2014
Response via : Initial Calibration



(61) 4-Nitrophenol (t)

6.994min (+0.054) 36.12ppb

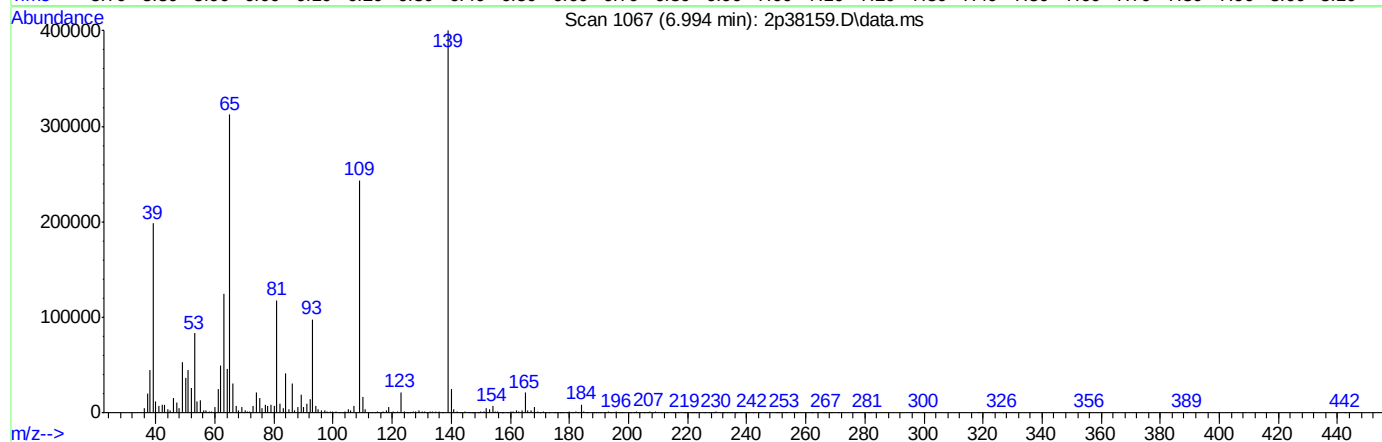
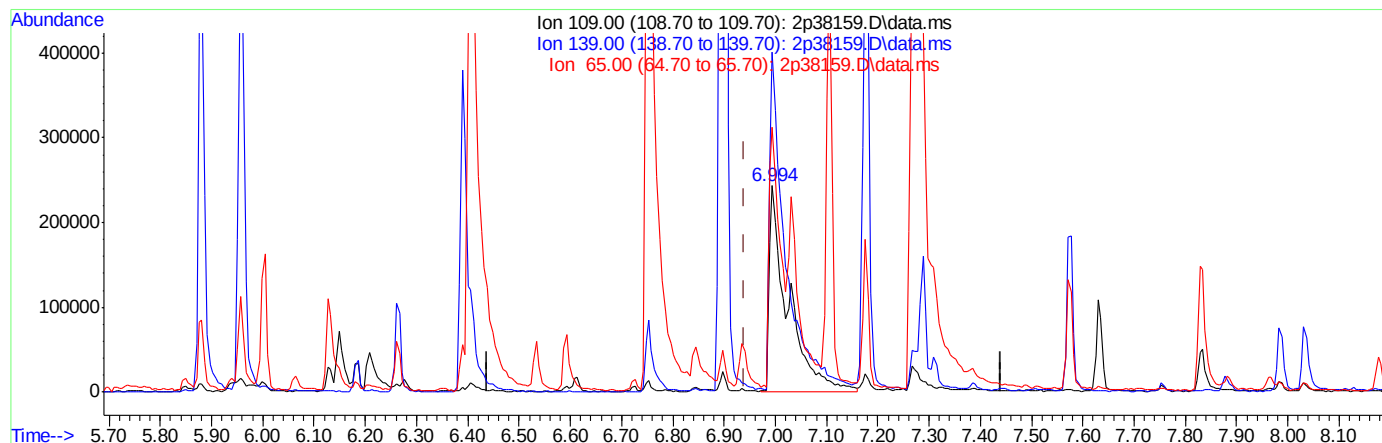
response 356425

Ion	Exp%	Act%
109.00	100	100
139.00	183.70	162.45
65.00	129.40	124.11
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1594\
Data File : 2p38159.D
Acq On : 5 Jul 2014 11:36 am
Operator : andrews1
Sample : cc1583-50
Misc : op75909,e2p1594,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 05 16:10:20 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 02 14:21:35 2014
Response via : Initial Calibration



(61) 4-Nitrophenol (t)

6.994min (+0.054) 62.39ppb m

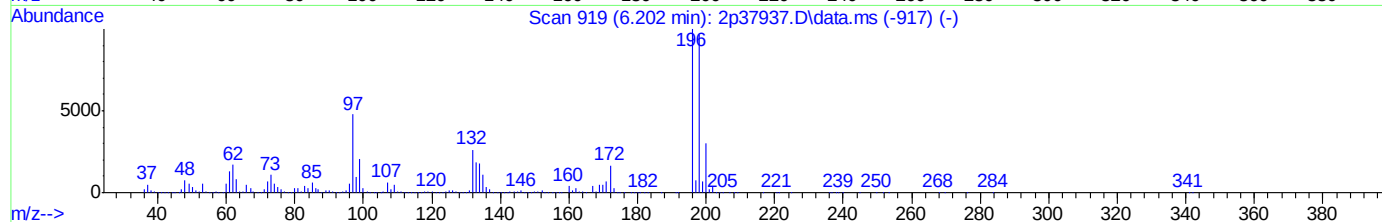
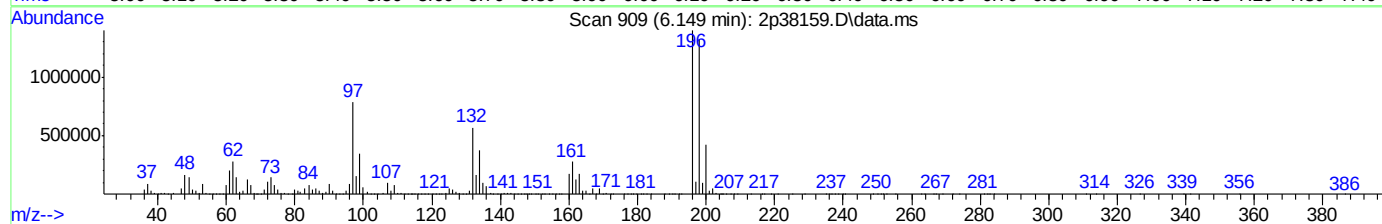
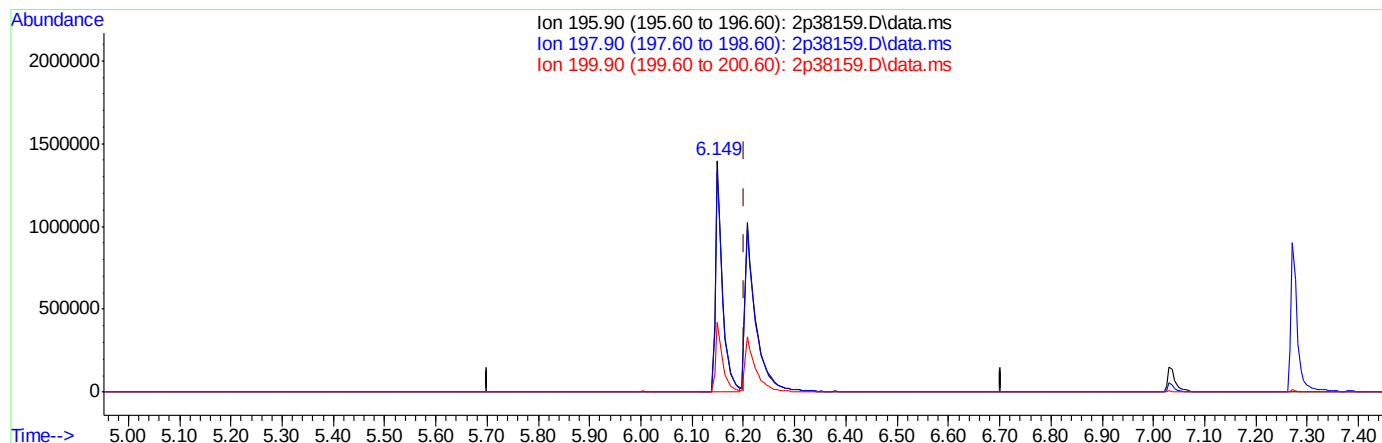
response 615759

Ion	Exp%	Act%
109.00	100	100
139.00	183.70	164.44
65.00	129.40	128.15
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1594\
Data File : 2p38159.D
Acq On : 5 Jul 2014 11:36 am
Operator : andrews1
Sample : cc1583-50
Misc : op75909,e2p1594,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 05 16:11:17 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 02 14:21:35 2014
Response via : Initial Calibration



TIC: 2p38159.D\data.ms

(50) 2,4,5-Trichlorophenol (t)

6.149min (-0.054) 43.95ppb

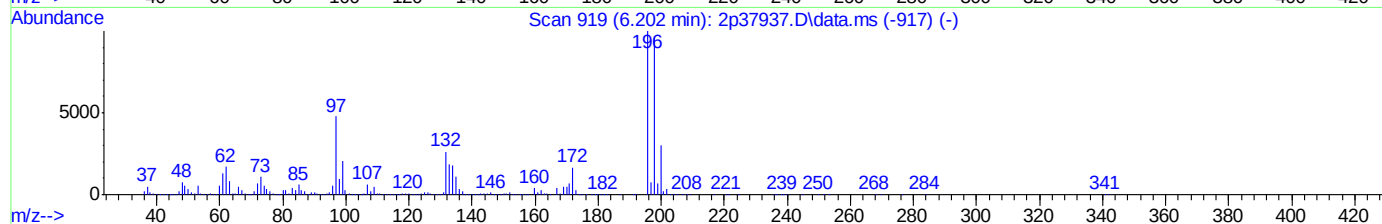
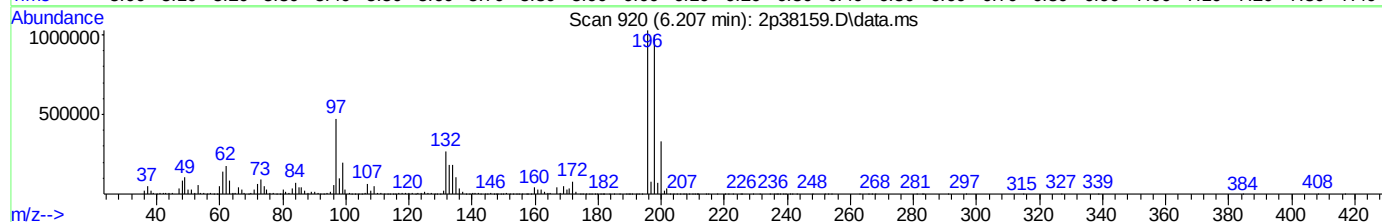
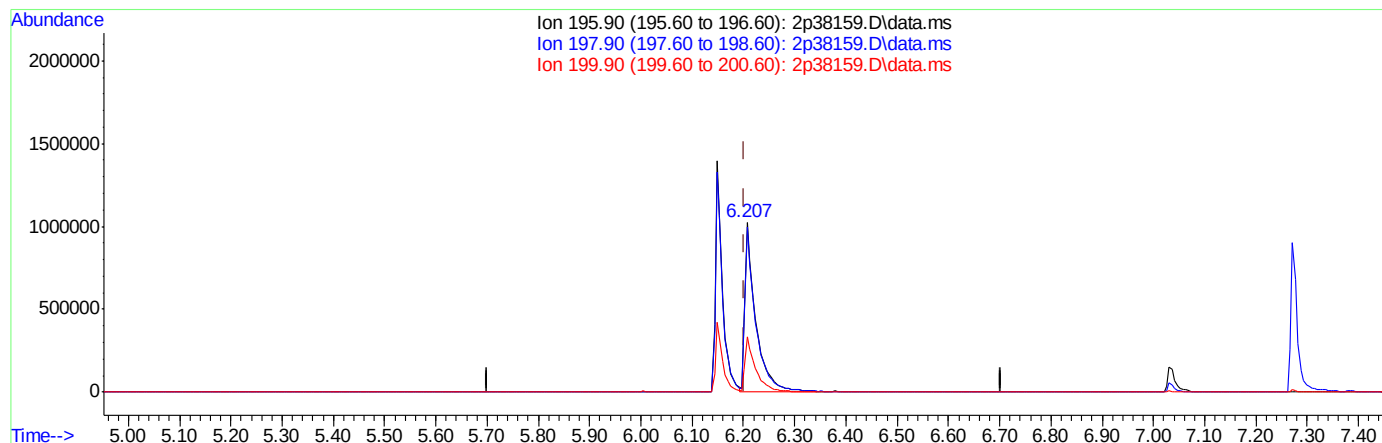
response 1357059

Ion	Exp%	Act%
195.90	100	100
197.90	96.70	94.89
199.90	30.00	30.15
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1594\
Data File : 2p38159.D
Acq On : 5 Jul 2014 11:36 am
Operator : andrews1
Sample : cc1583-50
Misc : op75909,e2p1594,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 05 16:11:17 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1583.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 02 14:21:35 2014
Response via : Initial Calibration



(50) 2,4,5-Trichlorophenol (t)

6.207min (+0.005) 48.63ppb m

response 1501387

Ion	Exp%	Act%
195.90	100	100
197.90	96.70	97.13
199.90	30.00	32.20
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1594\
 Data File : 2p38161.D
 Acq On : 5 Jul 2014 12:03 pm
 Operator : andrews1
 Sample : cc1584-50
 Misc : op75909,e2p1594,
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 07 16:21:27 2014
 Quant Method : C:\msdchem\1\METHODS\M2P1583eph.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Wed Jul 02 14:21:35 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.239	152	1517573	40.00	ppb	-0.03
24) Naphthalene-d8	5.288	136	5828154	40.00	ppb	-0.03
47) Acenaphthene-d10	6.726	164	2948043	40.00	ppb	-0.03
69) Phenanthrene-d10	7.962	188	4900839	40.00	ppb	-0.03
83) Chrysene-d12	11.096	240	4789516	40.00	ppb	-0.03
92) Perylene-d12	13.086	264	4277808	40.00	ppb	-0.02
102) 1,4-Dichlorobenzene-d4a	4.239	152	1517573	40.00	ppb	-0.03
104) Acenaphthene-d10a	6.726	164	2948043	40.00	ppb	-0.03
107) Chrysene-d12a	11.096	240	4789516	40.00	ppb	-0.02
110) Phenanthrene-d10a	7.962	188	4900839	40.00	ppb	-0.03
112) Naphthalene-d8a	5.288	136	5828154	40.00	ppb	-0.03

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	0d	0.00	ppb	
Spiked Amount	50.000	Range	16 - 65	Recovery	=	0.00%#
108) 1-chlorooctadecane	0.000	57	0d	0.00	ppb	
111) O-terphenyl	0.000	230	0d	0.00	ppb	

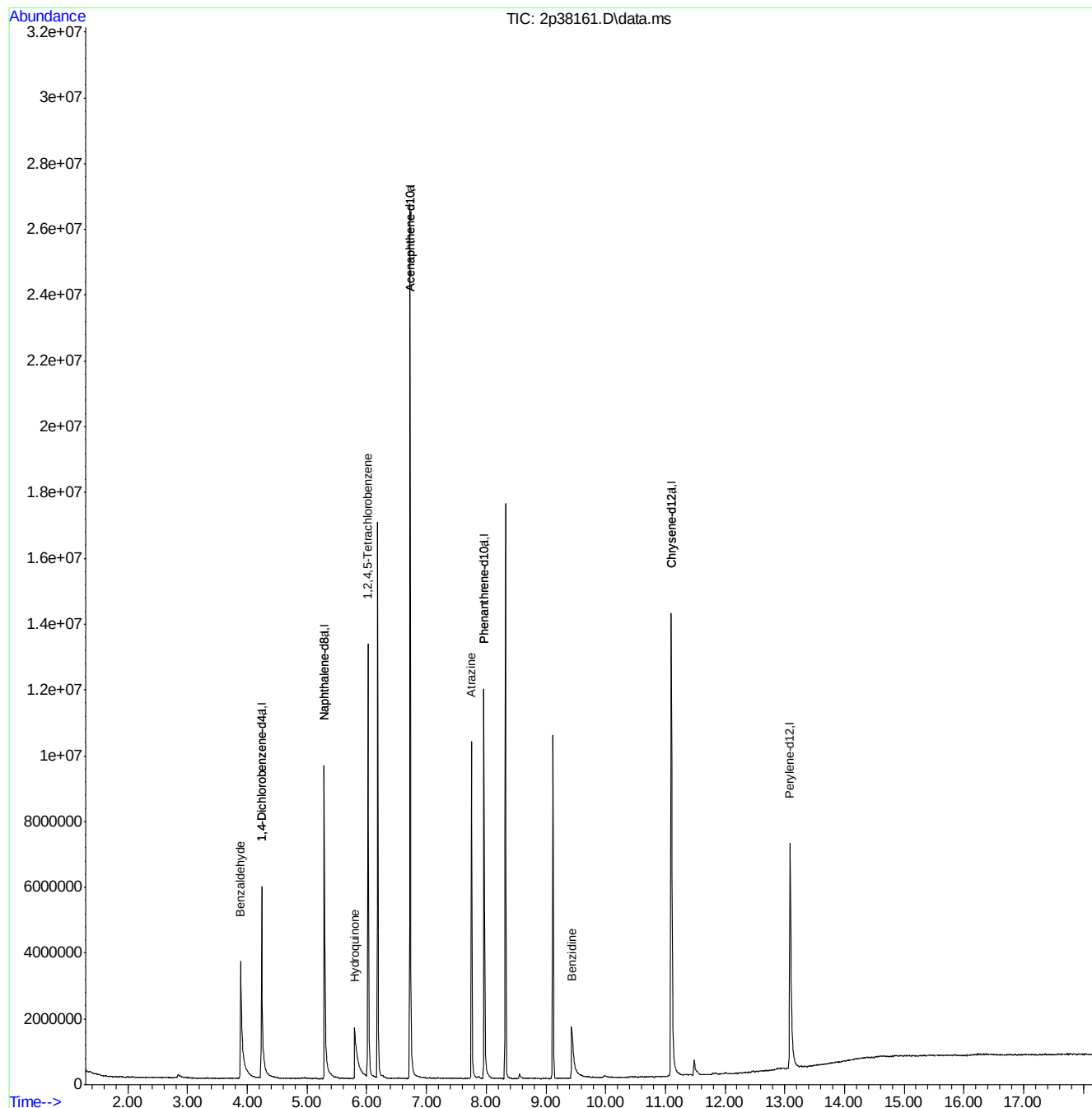
Target Compounds						Qvalue
103) Benzaldehyde	3.886	105	1891718	49.99	ppb	99
105) Atrazine	7.753	215	584501	50.46	ppb	91
106) 1,2,4,5-Tetrachloroben...	6.020	216	2470772	48.79	ppb	100
109) Benzidine	9.433	184	1954782	27.51	ppb	97
113) Hydroquinone	5.796	110	2379971	52.75	ppb	98

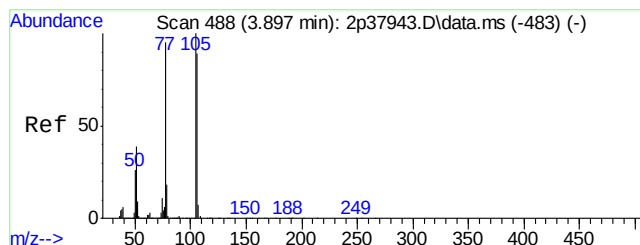
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1594\
Data File : 2p38161.D
Acq On : 5 Jul 2014 12:03 pm
Operator : andrews1
Sample : cc1584-50
Misc : op75909,e2p1594,
ALS Vial : 3 Sample Multiplier: 1

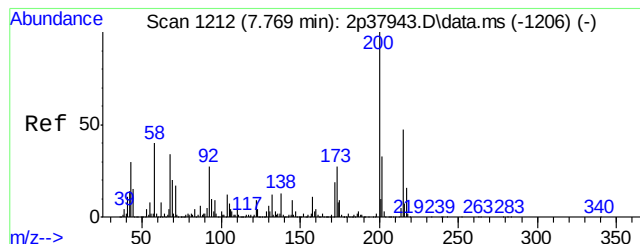
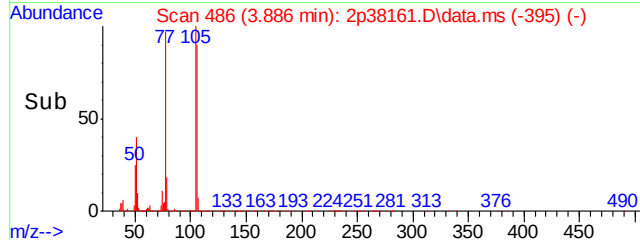
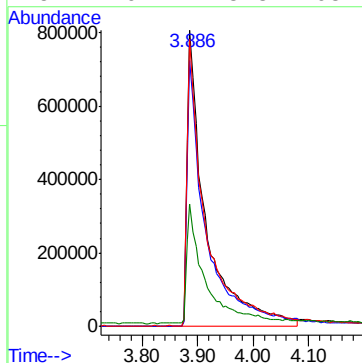
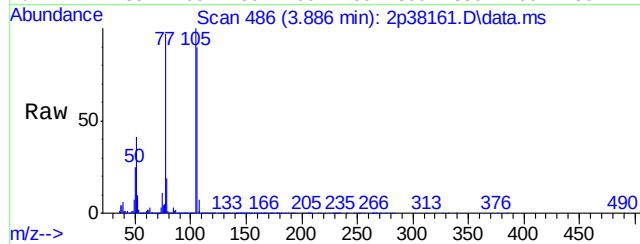
Quant Time: Jul 07 16:21:27 2014
Quant Method : C:\msdchem\1\METHODS\M2P1583eph.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 02 14:21:35 2014
Response via : Initial Calibration





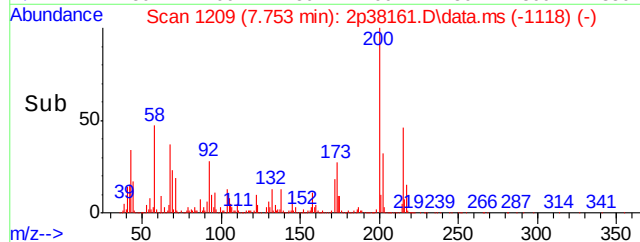
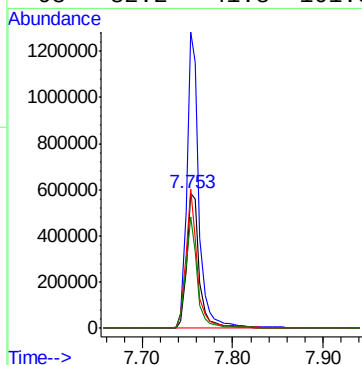
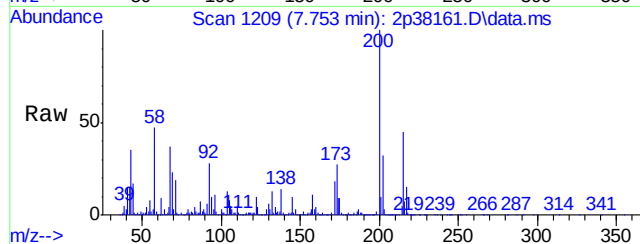
#103
Benzaldehyde
Concen: 49.99 ppb
RT: 3.886 min Scan# 486
Delta R.T. -0.011 min
Lab File: 2p38161.D
Acq: 5 Jul 2014 12:03 pm

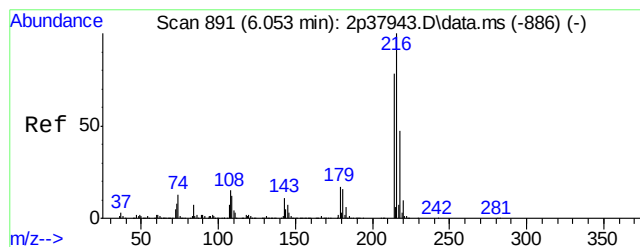
Tgt Ion	Ratio	Lower	Upper
105	100		
106	89.6	59.0	119.0
77	96.9	65.4	125.4
51	40.2	8.8	68.8



#105
Atrazine
Concen: 50.46 ppb
RT: 7.753 min Scan# 1209
Delta R.T. -0.016 min
Lab File: 2p38161.D
Acq: 5 Jul 2014 12:03 pm

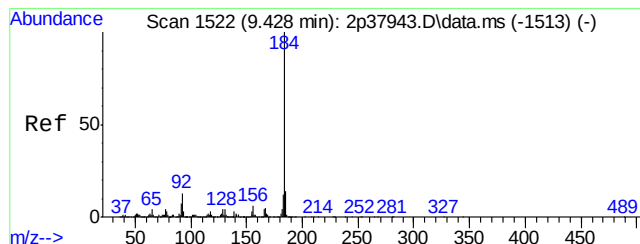
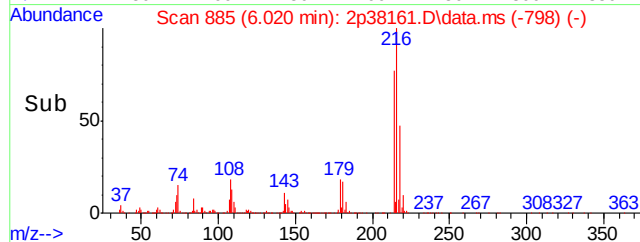
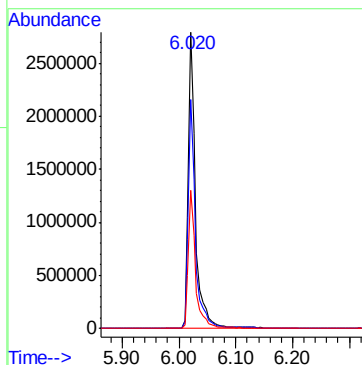
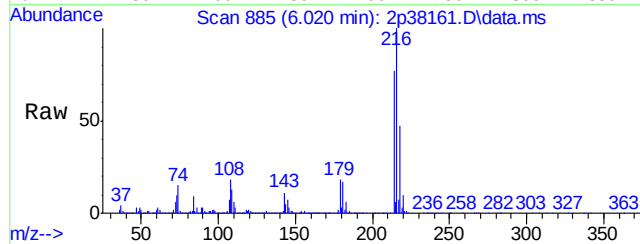
Tgt Ion	Ratio	Lower	Upper
215	100		
200	219.7	184.0	244.0
58	103.1	56.4	116.4
68	82.2	41.8	101.8





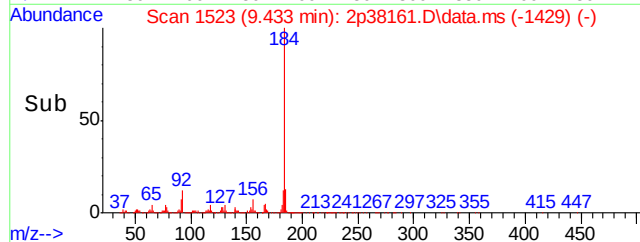
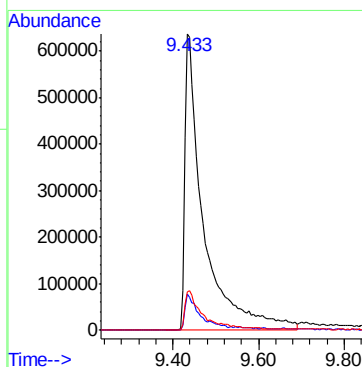
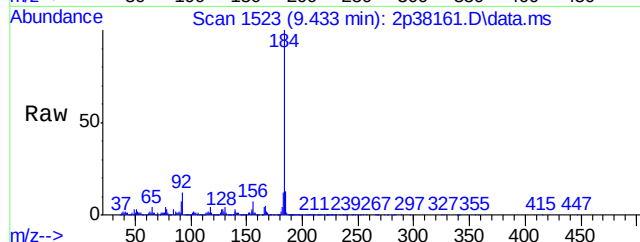
#106
 1,2,4,5-Tetrachlorobenzene
 Concen: 48.79 ppb
 RT: 6.020 min Scan# 885
 Delta R.T. -0.033 min
 Lab File: 2p38161.D
 Acq: 5 Jul 2014 12:03 pm

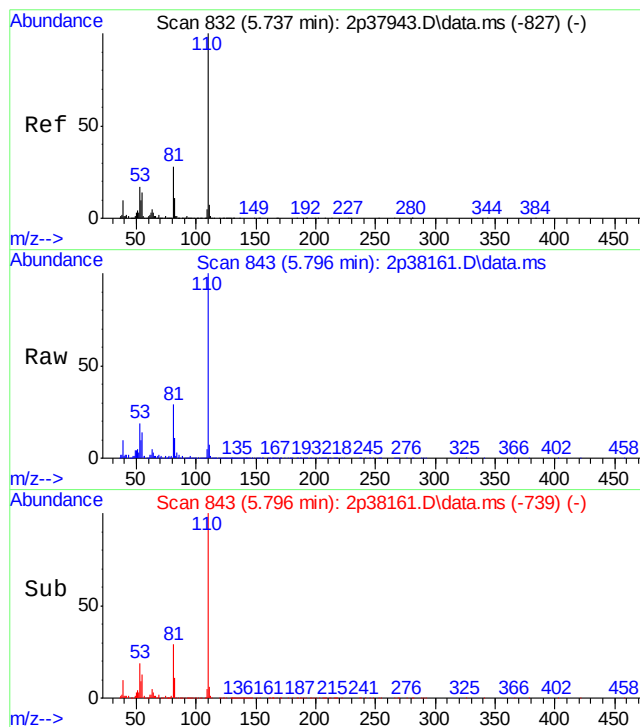
Tgt Ion: 216 Resp: 2470772
 Ion Ratio Lower Upper
 216 100
 214 77.4 62.1 93.1
 218 46.5 37.7 56.5



#109
 Benzidine
 Concen: 27.51 ppb
 RT: 9.433 min Scan# 1523
 Delta R.T. 0.005 min
 Lab File: 2p38161.D
 Acq: 5 Jul 2014 12:03 pm

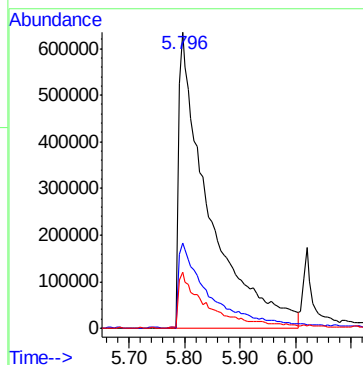
Tgt Ion: 184 Resp: 1954782
 Ion Ratio Lower Upper
 184 100
 183 11.9 0.0 41.7
 185 12.8 0.0 44.5





#113
Hydroquinone
Concen: 52.75 ppb
RT: 5.796 min Scan# 843
Delta R.T. 0.059 min
Lab File: 2p38161.D
Acq: 5 Jul 2014 12:03 pm

Tgt Ion	110	Resp	2379971
Ion Ratio	Lower	Upper	
110	100		
81	28.7	0.0	58.4
53	18.9	0.0	47.2



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p357\
 Data File : 6p8273.D
 Acq On : 26 Jun 2014 3:08 pm
 Operator : samtap
 Sample : ic357-100
 Misc : op75816,e6p357
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 26 16:11:52 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Thu Jun 26 16:10:46 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.531	152	220178	40.00	ppb	0.00
24) Naphthalene-d8	5.611	136	896578	40.00	ppb	0.00
47) Acenaphthene-d10	7.660	164	553775	40.00	ppb	0.00
69) Phenanthrene-d10	9.831	188	884116	40.00	ppb	0.00
83) Chrysene-d12	14.030	240	871212	40.00	ppb	0.00
92) Perylene-d12	16.143	264	982814	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	4.531	152	220178	40.00	ppb	0.00
104) Phenanthrene-d10a	9.831	188	884116	40.00	ppb	0.00
107) Chrysene-d12a	14.030	240	871212	40.00	ppb	0.00
110) Acenaphthene-d10a	7.660	164	553775	40.00	ppb	0.00
112) Naphthalene-d8a	5.611	136	896578	40.00	ppb	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	3.530	112	831713	106.34	ppb	0.00
Spiked Amount	50.000		Recovery	=	212.68%	
8) Phenol-d5	4.274	99	1002189	98.12	ppb	0.00
Spiked Amount	50.000		Recovery	=	196.24%	
25) Nitrobenzene-d5	4.975	82	956294	98.52	ppb	0.00
Spiked Amount	50.000		Recovery	=	197.04%	
51) 2-Fluorobiphenyl	6.798	172	1595297	93.97	ppb	0.00
Spiked Amount	50.000		Recovery	=	187.94%	
73) 2,4,6-Tribromophenol	8.788	330	244814	116.41	ppb	0.00
Spiked Amount	50.000		Recovery	=	232.82%	
86) Terphenyl-d14	12.404	244	1940096	113.03	ppb	0.00
Spiked Amount	50.000		Recovery	=	226.06%	
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	1.995	88	362804	103.31	ppb	92
3) Pyridine	2.332	79	989119	114.32	ppb	99
4) N-Nitrosodimethylamine	2.290	74	590279	107.05	ppb	97
6) Indene	4.734	116	1282650	93.90	ppb	97
7) Cumene	3.926	105	1985721	98.79	ppb	99
9) Phenol	4.285	94	1114136	91.84	ppb	# 26
10) Aniline	4.285	93	1047320	81.47	ppb	# 24
11) bis(2-Chloroethyl)ether	4.338	93	841333	99.16	ppb	100
12) 2-Chlorophenol	4.381	128	784599	98.77	ppb	98
13) Decane	4.418	43	847656	98.90	ppb	98
14) 1,3-Dichlorobenzene	4.488	146	851886	97.03	ppb	97
15) 1,4-Dichlorobenzene	4.547	146	849148	95.65	ppb	99
16) Benzyl alcohol	4.648	108	542017	100.69	ppb	99
17) 1,2-Dichlorobenzene	4.664	146	776404	94.03	ppb	99
18) Acetophenone	4.852	105	1071909	89.59	ppb	91
19) 2-Methylphenol	4.739	108	667227	88.33	ppb	99
20) 2,2'-oxybis(1-Chloropr...	4.750	121	257547	94.59	ppb	95
21) 3&4-Methylphenol	4.862	108	692592	85.84	ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p357\
 Data File : 6p8273.D
 Acq On : 26 Jun 2014 3:08 pm
 Operator : samtap
 Sample : ic357-100
 Misc : op75816,e6p357
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 26 16:11:52 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Thu Jun 26 16:10:46 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
22) n-Nitroso-di-n-propyla...	4.857	70	537834	82.97	ppb	97
23) Hexachloroethane	4.932	201	303448	95.73	ppb	95
26) Nitrobenzene	4.991	77	1036772	98.83	ppb	95
27) Quinoline	5.969	129	1674185	104.73	ppb	99
28) Isophorone	5.194	82	1727004	101.13	ppb	99
29) 2-Nitrophenol	5.263	139	442627	104.15	ppb	97
30) 2,4-Dimethylphenol	5.306	107	821259	112.39	ppb	99
31) Benzoic Acid	5.445	105	673250	102.91	ppb	98
32) bis(2-Chloroethoxy)met...	5.386	93	989297	98.28	ppb	99
33) 2,4-Dichlorophenol	5.483	162	659473	103.15	ppb	97
34) 2,6-Dichlorophenol	5.702	162	625100	96.13	ppb	99
35) 1,3,5-Trichlorobenzene	5.274	180	694310	91.55	ppb	99
36) 1,2,4-Trichlorobenzene	5.558	180	689909	95.06	ppb	98
37) 1,2,3-Trichlorobenzene	5.777	180	672761	94.23	ppb	100
38) Naphthalene	5.632	128	2218637	95.00	ppb	99
39) 4-Chloroaniline	5.691	127	899613	92.04	ppb	99
40) 2,3-Dichloroaniline	6.686	161	818168	97.24	ppb	98
41) Caprolactam	6.082	55	437732	114.48	ppb	97
42) Hexachlorobutadiene	5.761	225	362941	93.14	ppb	99
43) 4-Chloro-3-methylphenol	6.205	107	791906	107.90	ppb	98
44) 2-Methylnaphthalene	6.355	141	1297299	96.97	ppb	99
45) 1-Methylnaphthalene	6.467	141	1297957	95.54	ppb	98
46) Dimethylnaphthalene	7.114	156	1387185	99.34	ppb	99
48) Hexachlorocyclopentadiene	6.547	237	806069	183.24	ppb	100
49) 2,4,6-Trichlorophenol	6.697	196	478691	100.95	ppb	100
50) 2,4,5-Trichlorophenol	6.750	196	551111	105.95	ppb	99
52) 2-Chloronaphthalene	6.938	162	1470993	93.19	ppb	98
53) Biphenyl	6.916	154	1810132	94.35	ppb	98
54) 2-Nitroaniline	7.077	65	577669	111.64	ppb	94
55) Dimethylphthalate	7.328	163	1693388	99.93	ppb	99
56) Acenaphthylene	7.467	152	2362977	101.77	ppb	99
57) 2,6-Dinitrotoluene	7.398	165	429927	113.29	ppb	98
58) 3-Nitroaniline	7.622	138	488163	111.89	ppb	97
59) Acenaphthene	7.708	153	1439770	97.02	ppb	99
60) 2,4-Dinitrophenol	7.767	184	559516	222.43	ppb	97
61) 4-Nitrophenol	7.900	109	281240	122.61	ppb	94
62) Dibenzofuran	7.948	168	1969494	91.23	ppb	98
63) 2,4-Dinitrotoluene	7.954	165	529355	104.08	ppb	89
64) 2,3,4,6-Tetrachlorophenol	8.136	232	439660	111.85	ppb	95
65) Diethylphthalate	8.328	149	1600734	82.02	ppb	98
66) Fluorene	8.435	166	1736507	99.42	ppb	98
67) 4-Chlorophenyl-phenyle...	8.457	204	789410	94.26	ppb	98
68) 4-Nitroaniline	8.499	138	487408	112.63	ppb	98
70) 4,6-Dinitro-2-methylph...	8.537	198	393333	113.58	ppb	96
71) n-Nitrosodiphenylamine	8.638	169	1212099	102.28	ppb	98
72) 1,2-Diphenylhydrazine	8.687	77	2116591	101.65	ppb	99
74) 4-Bromophenyl-phenylether	9.179	248	462279	101.91	ppb	97
75) Hexachlorobenzene	9.259	284	529269	97.85	ppb	99
76) Pentachlorophenol	9.569	266	684698	211.71	ppb	97
77) Phenanthrene	9.869	178	2475508	96.25	ppb	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p357\
 Data File : 6p8273.D
 Acq On : 26 Jun 2014 3:08 pm
 Operator : samtap
 Sample : ic357-100
 Misc : op75816,e6p357
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 26 16:11:52 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Thu Jun 26 16:10:46 2014
 Response via : Initial Calibration

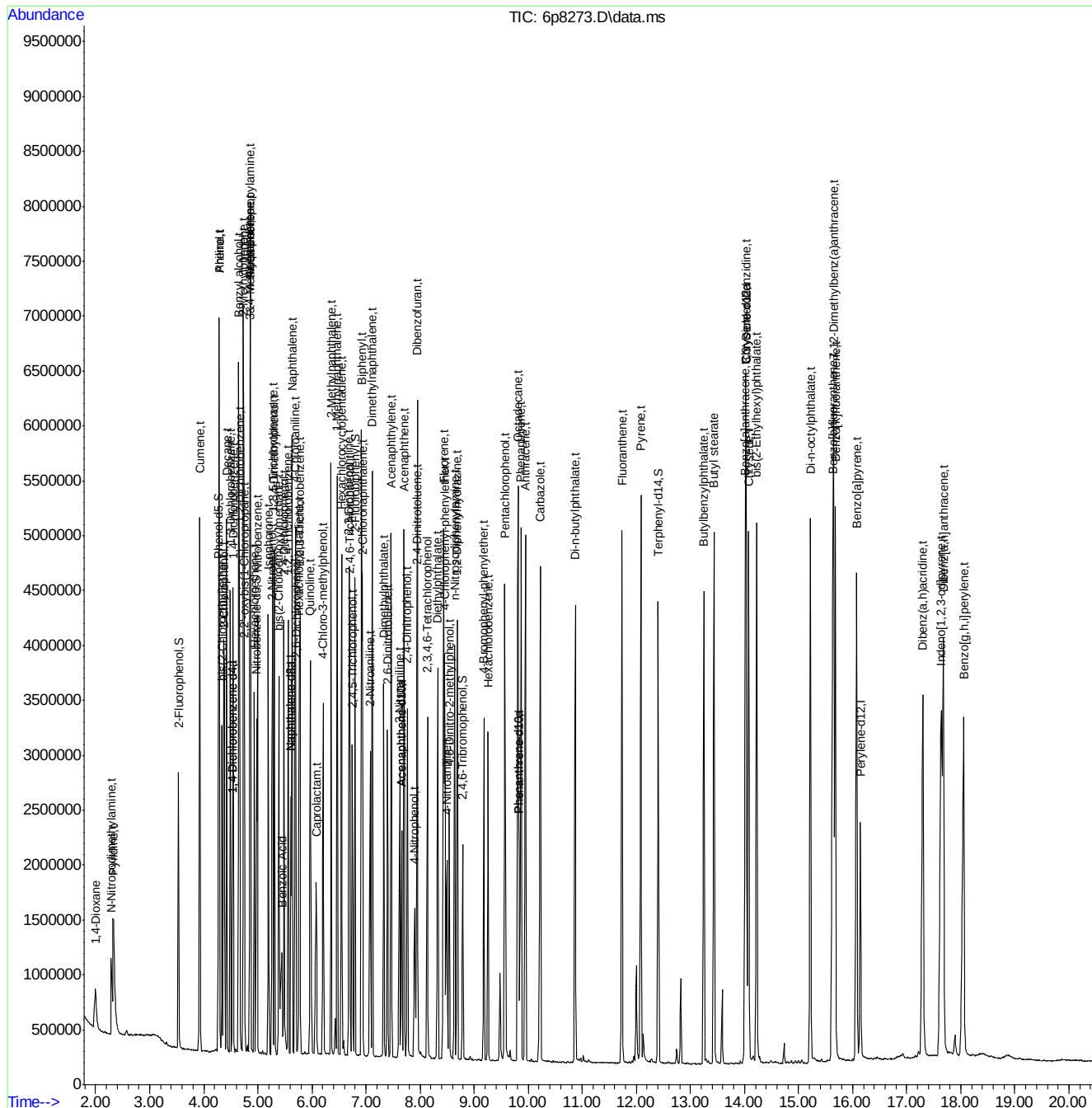
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78) Anthracene	9.949	178	2505438	100.07	ppb	99
79) Carbazole	10.222	167	2500298	103.87	ppb	100
80) Di-n-butylphthalate	10.869	149	2799775	112.11	ppb	99
81) Fluoranthene	11.735	202	2820507	105.96	ppb	99
82) Octadecane	9.810	57	1210193	109.87	ppb	99
84) Pyrene	12.083	202	2980263	107.73	ppb	98
85) Butyl stearate	13.436	56	907601	109.59	ppb	98
87) Butylbenzylphthalate	13.249	149	1337415	139.18	ppb	98
88) Benzo[a]anthracene	14.014	228	2646913	116.38	ppb	100
89) 3,3'-Dichlorobenzidine	14.030	252	953721	124.87	ppb	99
90) Chrysene	14.078	228	2628195	113.86	ppb	98
91) bis(2-Ethylhexyl)phtha...	14.222	149	1849241	144.96	ppb	99
93) Di-n-octylphthalate	15.217	149	3285523	155.38	ppb	100
94) Benzo[b]fluoranthene	15.634	252	3124779	130.78	ppb	96
95) Benzo[k]fluoranthene	15.683	252	2694580	98.99	ppb	99
96) Benzo[a]pyrene	16.073	252	2796755	134.25	ppb	99
97) Indeno[1,2,3-cd]pyrene	17.635	276	3212373	177.84	ppb	100
98) Dibenz(a,h)acridine	17.298	279	2805574	179.08	ppb	100
99) Dibenz[a,h]anthracene	17.678	278	3122028	157.89	ppb	98
100) 7,12-Dimethylbenz(a)an...	15.645	256	1319134	120.49	ppb	98
101) Benzo[g,h,i]perylene	18.057	276	3126103	138.49	ppb	98

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

Quantitation Report (QT Reviewed)

```
Data Path   : C:\msdchem\1\DATA\e6p357\
Data File   : 6p8273.D
Acq On      : 26 Jun 2014    3:08 pm
Operator    : samtap
Sample      : ic357-100
Misc        : op75816,e6p357
ALS Vial    : 2      Sample Multiplier: 1
```

Quant Time: Jun 26 16:11:52 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Thu Jun 26 16:10:46 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p357\
 Data File : 6p8274.D
 Acq On : 26 Jun 2014 3:36 pm
 Operator : samtap
 Sample : ic357-1
 Misc : op75816,e6p357
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 26 23:08:55 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Thu Jun 26 16:12:01 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.531	152	309596	40.00	ppb	0.00
24) Naphthalene-d8	5.606	136	1228027	40.00	ppb	0.00
47) Acenaphthene-d10	7.654	164	752835	40.00	ppb	0.00
69) Phenanthrene-d10	9.826	188	1259484	40.00	ppb	0.00
83) Chrysene-d12	14.019	240	1367120	40.00	ppb	-0.01
92) Perylene-d12	16.137	264	1282838	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	4.531	152	309596	40.00	ppb	0.00
104) Phenanthrene-d10a	9.826	188	1259484	40.00	ppb	0.00
107) Chrysene-d12a	14.019	240	1367120	40.00	ppb	-0.01
110) Acenaphthene-d10a	7.654	164	752835	40.00	ppb	0.00
112) Naphthalene-d8a	5.606	136	1228027	40.00	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol	3.530	112	12987	1.18	ppb	0.00
Spiked Amount	50.000		Recovery	=	2.36%	
8) Phenol-d5	4.269	99	15727	1.10	ppb	0.00
Spiked Amount	50.000		Recovery	=	2.20%	
25) Nitrobenzene-d5	4.969	82	15275	1.15	ppb	0.00
Spiked Amount	50.000		Recovery	=	2.30%	
51) 2-Fluorobiphenyl	6.788	172	28498	1.23	ppb	-0.01
Spiked Amount	50.000		Recovery	=	2.46%	
73) 2,4,6-Tribromophenol	8.783	330	3376	1.13	ppb	0.00
Spiked Amount	50.000		Recovery	=	2.26%	
86) Terphenyl-d14	12.398	244	33178	1.23	ppb	0.00
Spiked Amount	50.000		Recovery	=	2.46%	
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

3) Pyridine	2.375	79	9017	0.74	ppb	87
4) N-Nitrosodimethylamine	2.311	74	8489	1.09	ppb	84
6) Indene	4.729	116	23361	1.22	ppb	97
7) Cumene	3.926	105	33231	1.18	ppb	97
9) Phenol	4.279	94	19038	1.12	ppb	# 11
10) Aniline	4.285	93	24151	1.34	ppb	95
11) bis(2-Chloroethyl)ether	4.333	93	13832	1.16	ppb	95
12) 2-Chlorophenol	4.375	128	12850	1.15	ppb	95
13) Decane	4.418	43	14059	1.17	ppb	97
14) 1,3-Dichlorobenzene	4.488	146	14151	1.15	ppb	94
15) 1,4-Dichlorobenzene	4.541	146	14961	1.20	ppb	93
16) Benzyl alcohol	4.638	108	9338	1.23	ppb	92
17) 1,2-Dichlorobenzene	4.664	146	14429	1.24	ppb	91
18) Acetophenone	4.846	105	20361	1.21	ppb	98
19) 2-Methylphenol	4.734	108	11556	1.09	ppb	97
20) 2,2'-oxybis(1-Chloropr...	4.745	121	5103	1.33	ppb	99
21) 3&4-Methylphenol	4.857	108	12102	1.07	ppb	94
22) n-Nitroso-di-n-propyla...	4.846	70	10859	1.19	ppb	95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p357\
 Data File : 6p8274.D
 Acq On : 26 Jun 2014 3:36 pm
 Operator : samtap
 Sample : ic357-1
 Misc : op75816,e6p357
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 26 23:08:55 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Thu Jun 26 16:12:01 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Hexachloroethane	4.932	201	4660	1.05	ppb	96
26) Nitrobenzene	4.985	77	16553	1.15	ppb	98
27) Quinoline	5.964	129	26124	1.19	ppb	97
28) Isophorone	5.188	82	29906	1.28	ppb	95
29) 2-Nitrophenol	5.258	139	6614	1.14	ppb	93
30) 2,4-Dimethylphenol	5.301	107	9475	0.95	ppb	91
32) bis(2-Chloroethoxy)met...	5.381	93	15521	1.13	ppb	91
33) 2,4-Dichlorophenol	5.488	162	9927	1.13	ppb	94
34) 2,6-Dichlorophenol	5.691	162	10478	1.18	ppb	95
35) 1,3,5-Trichlorobenzene	5.269	180	12852	1.24	ppb	92
36) 1,2,4-Trichlorobenzene	5.558	180	11786	1.19	ppb	95
37) 1,2,3-Trichlorobenzene	5.771	180	12238	1.25	ppb	98
38) Naphthalene	5.627	128	39398	1.23	ppb	99
39) 4-Chloroaniline	5.681	127	15503	1.16	ppb	88
40) 2,3-Dichloroaniline	6.681	161	14127	1.23	ppb	99
41) Caprolactam	6.007	55	5621	1.07	ppb	93
42) Hexachlorobutadiene	5.761	225	6268	1.17	ppb	91
43) 4-Chloro-3-methylphenol	6.199	107	11832	1.18	ppb	89
44) 2-Methylnaphthalene	6.349	141	22449	1.23	ppb	98
45) 1-Methylnaphthalene	6.461	141	22826	1.23	ppb	95
46) Dimethylnaphthalene	7.103	156	24092	1.26	ppb	98
48) Hexachlorocyclopentadiene	6.547	237	9331	1.56	ppb	96
49) 2,4,6-Trichlorophenol	6.691	196	7983	1.24	ppb	96
50) 2,4,5-Trichlorophenol	6.756	196	8141	1.15	ppb	95
52) 2-Chloronaphthalene	6.927	162	27149	1.27	ppb	98
53) Biphenyl	6.911	154	32855	1.26	ppb	95
54) 2-Nitroaniline	7.066	65	8727	1.24	ppb	94
55) Dimethylphthalate	7.317	163	28850	1.25	ppb	99
56) Acenaphthylene	7.456	152	39647	1.26	ppb	99
57) 2,6-Dinitrotoluene	7.381	165	5651	1.10	ppb	87
58) 3-Nitroaniline	7.611	138	6169	1.04	ppb	93
59) Acenaphthene	7.697	153	25869	1.28	ppb	97
61) 4-Nitrophenol	7.932	109	2334	0.75	ppb	# 1
62) Dibenzofuran	7.938	168	38956	1.33	ppb	99
63) 2,4-Dinitrotoluene	7.938	165	7595	1.10	ppb	76
64) 2,3,4,6-Tetrachlorophenol	8.136	232	5861	1.10	ppb	94
65) Diethylphthalate	8.312	149	31766	1.20	ppb	99
66) Fluorene	8.424	166	30012	1.26	ppb	94
67) 4-Chlorophenyl-phenyle...	8.451	204	14285	1.25	ppb	96
68) 4-Nitroaniline	8.478	138	6559	1.11	ppb	96
70) 4,6-Dinitro-2-methylph...	8.537	198	2513	0.51	ppb	92
71) n-Nitrosodiphenylamine	8.628	169	19691	1.17	ppb	98
72) 1,2-Diphenylhydrazine	8.676	77	36471	1.23	ppb	97
74) 4-Bromophenyl-phenylether	9.173	248	7944	1.23	ppb	97
75) Hexachlorobenzene	9.248	284	9859	1.28	ppb	91
76) Pentachlorophenol	9.580	266	8394	1.82	ppb	95
77) Phenanthrene	9.858	178	45183	1.23	ppb	97
78) Anthracene	9.933	178	42668	1.20	ppb	97
79) Carbazole	10.211	167	42347	1.23	ppb	97
80) Di-n-butylphthalate	10.858	149	45228	1.27	ppb	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p357\
 Data File : 6p8274.D
 Acq On : 26 Jun 2014 3:36 pm
 Operator : samtap
 Sample : ic357-1
 Misc : op75816,e6p357
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 26 23:08:55 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Thu Jun 26 16:12:01 2014
 Response via : Initial Calibration

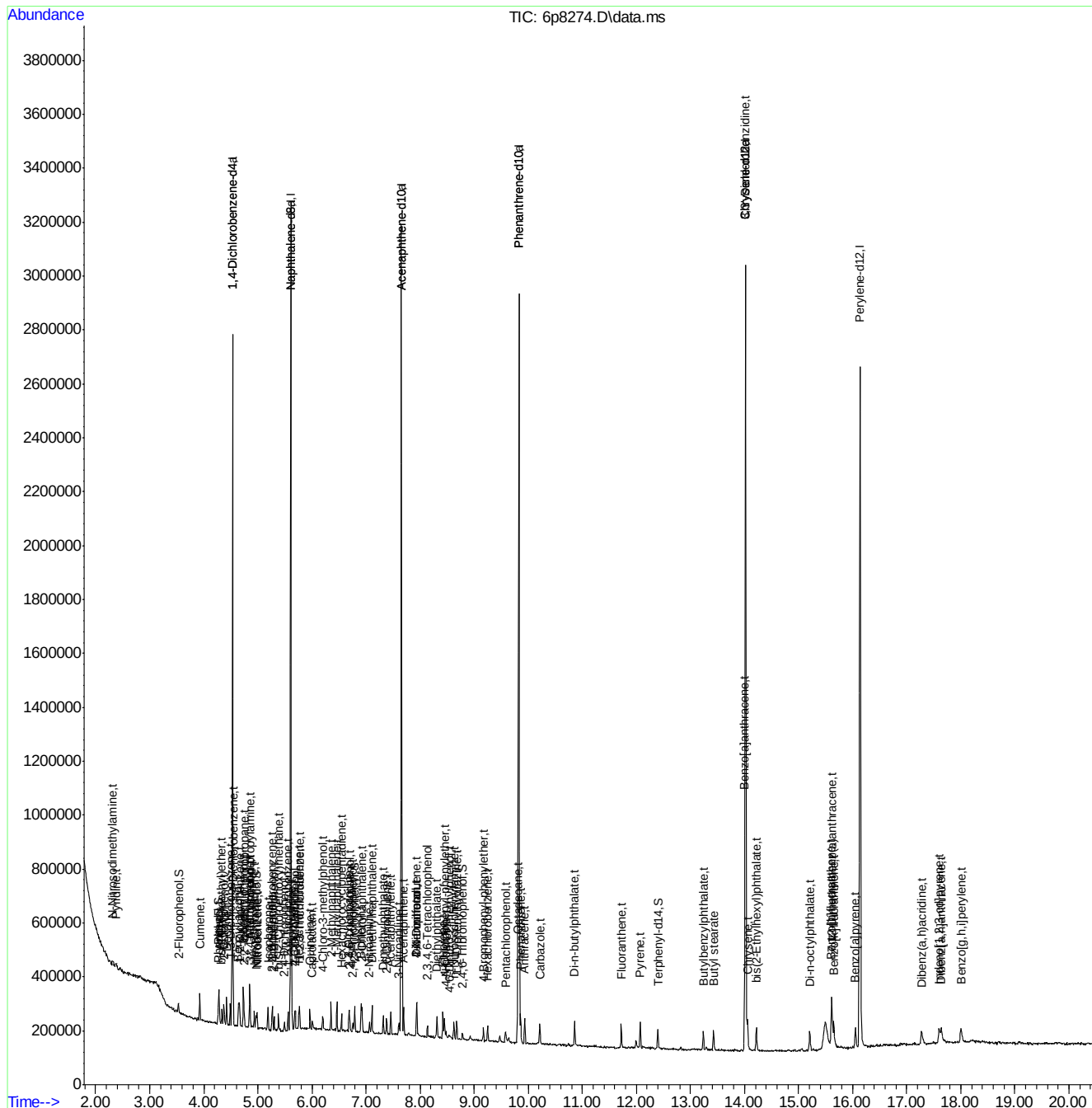
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
81) Fluoranthene	11.725	202	47443	1.25	ppb	98
82) Octadecane	9.804	57	21394	1.36	ppb	97
84) Pyrene	12.067	202	51747	1.19	ppb	96
85) Butyl stearate	13.425	56	14915	1.15	ppb	91
87) Butylbenzylphthalate	13.238	149	20229	1.34	ppb	94
88) Benzo[a]anthracene	14.003	228	46767	1.31	ppb	98
89) 3,3'-Dichlorobenzidine	14.019	252	16274	1.36	ppb	90
90) Chrysene	14.057	228	46842	1.29	ppb	98
91) bis(2-Ethylhexyl)phtha...	14.217	149	28106	1.40	ppb	99
93) Di-n-octylphthalate	15.206	149	47803	1.73	ppb	97
94) Benzo[b]fluoranthene	15.608	252	48310m	1.55	ppb	
95) Benzo[k]fluoranthene	15.650	252	52852	1.49	ppb	97
96) Benzo[a]pyrene	16.052	252	46873	1.72	ppb	99
97) Indeno[1,2,3-cd]pyrene	17.597	276	35400m	1.50	ppb	
98) Dibenz(a,h)acridine	17.276	279	33753	1.65	ppb	93
99) Dibenz[a,h]anthracene	17.640	278	39608	1.53	ppb	95
100) 7,12-Dimethylbenz(a)an...	15.613	256	10766	0.75	ppb	96
101) Benzo[g,h,i]perylene	18.004	276	48960	1.66	ppb	96

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p357\
Data File : 6p8274.D
Acq On : 26 Jun 2014 3:36 pm
Operator : samtap
Sample : ic357-1
Misc : op75816,6p357
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 26 23:08:55 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Thu Jun 26 16:12:01 2014
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: E6P357-IC357

Method: SW846 8270D

Lab FileID: 6P8274.D

Analyst approved: 07/01/14 10:59 Andrew Lee Smith

Injection Time: 06/26/14 15:36

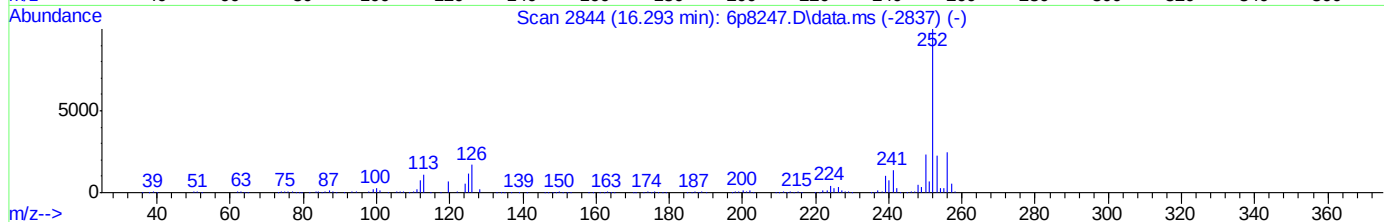
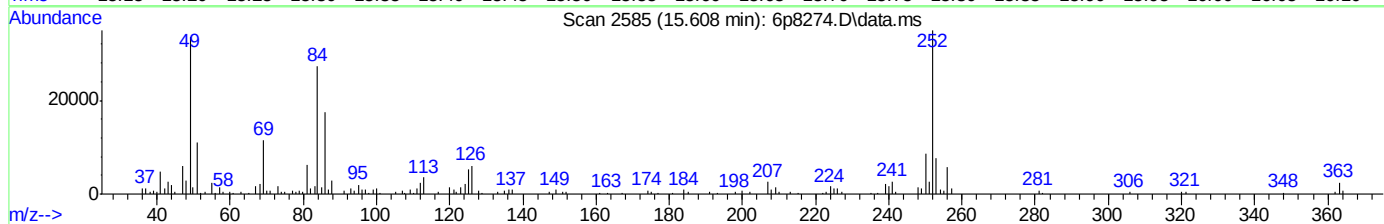
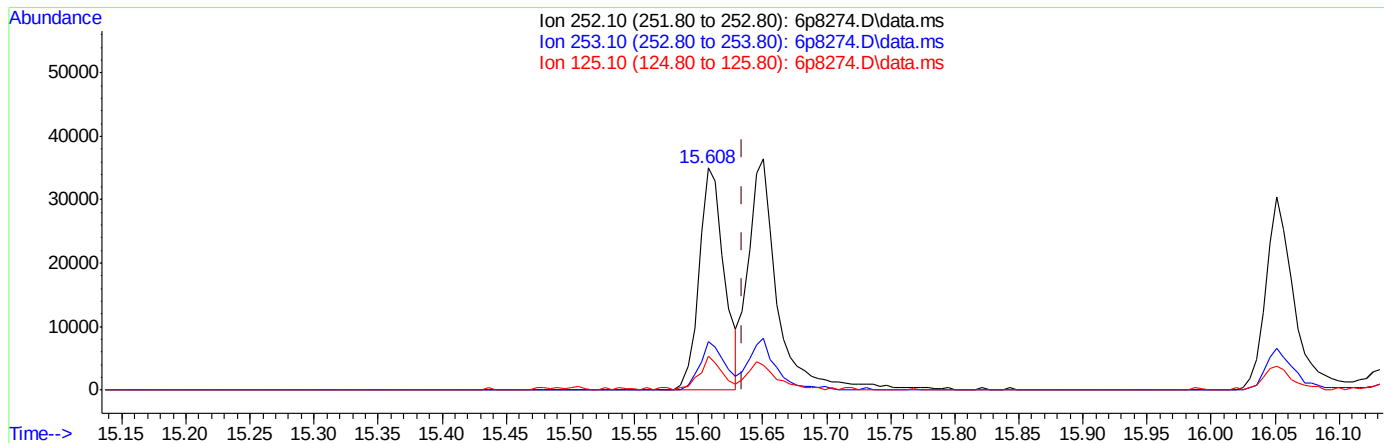
Supervisor approved: 07/02/14 15:14 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzo(b)fluoranthene	205-99-2		15.61	Overlapping peak
Indeno(1,2,3-cd)pyrene	193-39-5		17.60	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\6p357\
Data File : 6p8274.D
Acq On : 26 Jun 2014 3:36 pm
Operator : samtap
Sample : ic357-1
Misc : op75816,e6p357
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 26 23:08:55 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Thu Jun 26 16:12:01 2014
Response via : Initial Calibration



(94) Benzo[b]fluoranthene (t)

15.608min (-0.027) 1.55ppb m

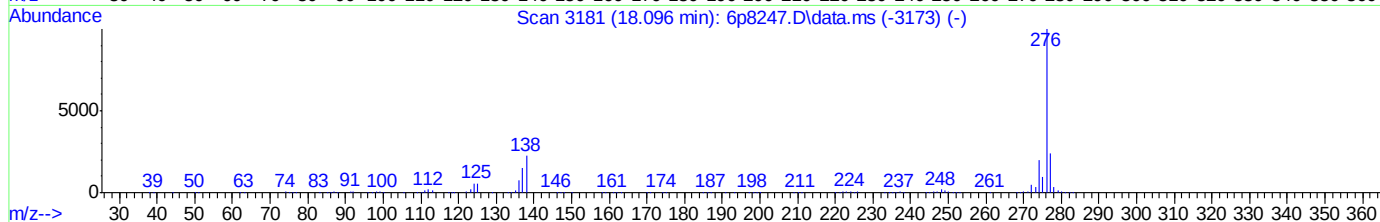
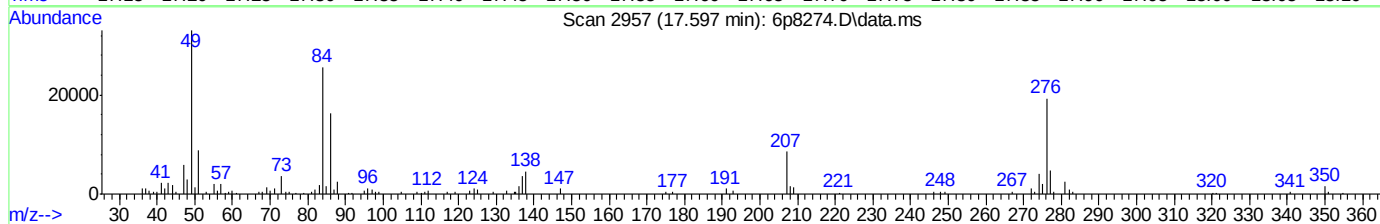
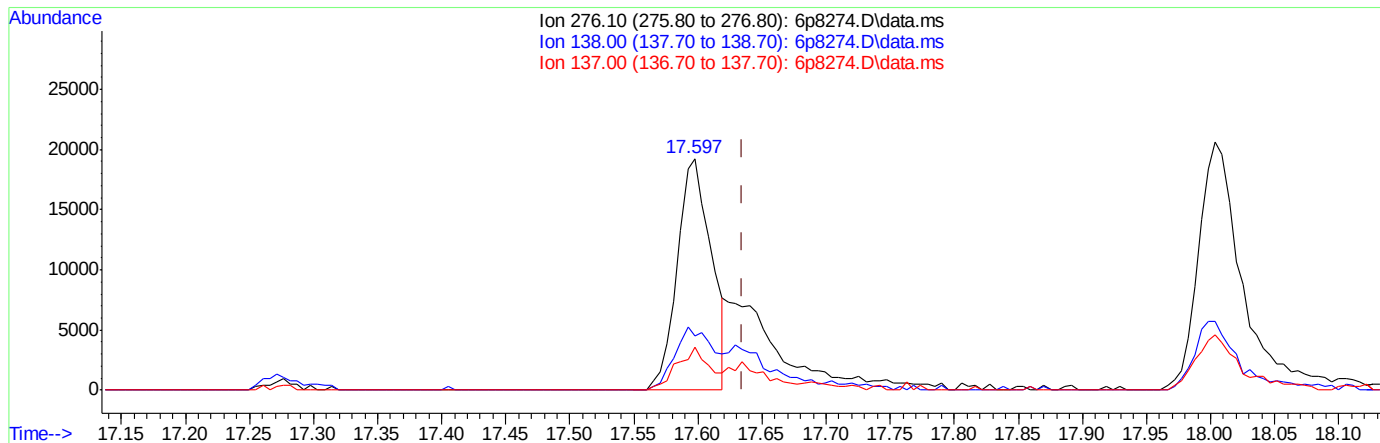
response 48310

Ion	Exp%	Act%
252.10	100	100
253.10	22.30	21.73
125.10	11.30	15.23
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\6p357\
Data File : 6p8274.D
Acq On : 26 Jun 2014 3:36 pm
Operator : samtap
Sample : ic357-1
Misc : op75816,e6p357
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 26 23:08:55 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Thu Jun 26 16:12:01 2014
Response via : Initial Calibration



(97) Indeno[1,2,3-cd]pyrene (t)

17.597min (-0.037) 1.50ppb m

response 35400

Ion	Exp%	Act%
276.10	100	100
138.00	19.80	23.52
137.00	14.00	18.65
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p357\
 Data File : 6p8275.D
 Acq On : 26 Jun 2014 4:04 pm
 Operator : samtap
 Sample : ic357-80
 Misc : op75816,e6p357
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 26 18:49:45 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Thu Jun 26 16:15:41 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.531	152	218514	40.00	ppb	0.00
24) Naphthalene-d8	5.611	136	882399	40.00	ppb	0.00
47) Acenaphthene-d10	7.660	164	534622	40.00	ppb	0.00
69) Phenanthrene-d10	9.831	188	866960	40.00	ppb	0.00
83) Chrysene-d12	14.030	240	839638	40.00	ppb	0.00
92) Perylene-d12	16.143	264	886426	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	4.531	152	218514	40.00	ppb	0.00
104) Phenanthrene-d10a	9.831	188	866960	40.00	ppb	0.00
107) Chrysene-d12a	14.030	240	839638	40.00	ppb	0.00
110) Acenaphthene-d10a	7.660	164	534622	40.00	ppb	0.00
112) Naphthalene-d8a	5.611	136	882399	40.00	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol	3.525	112	679895	79.44	ppb	0.00
Spiked Amount	50.000		Recovery	=	158.88%	
8) Phenol-d5	4.274	99	823284	78.41	ppb	0.00
Spiked Amount	50.000		Recovery	=	156.82%	
25) Nitrobenzene-d5	4.975	82	771061	77.79	ppb	0.00
Spiked Amount	50.000		Recovery	=	155.58%	
51) 2-Fluorobiphenyl	6.799	172	1311519	76.35	ppb	0.00
Spiked Amount	50.000		Recovery	=	152.70%	
73) 2,4,6-Tribromophenol	8.788	330	201448	83.86	ppb	0.00
Spiked Amount	50.000		Recovery	=	167.72%	
86) Terphenyl-d14	12.404	244	1606648	83.25	ppb	0.00
Spiked Amount	50.000		Recovery	=	166.50%	
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	1.979	88	294126m	90.09	ppb	
3) Pyridine	2.322	79	797613	88.69	ppb	99
4) N-Nitrosodimethylamine	2.290	74	477467	81.03	ppb	95
6) Indene	4.734	116	1060550	75.56	ppb	98
7) Cumene	3.926	105	1644210	77.84	ppb	100
9) Phenol	4.285	94	936127	76.64	ppb	# 18
10) Aniline	4.285	93	888423	69.43	ppb	# 45
11) bis(2-Chloroethyl)ether	4.338	93	689085	77.69	ppb	98
12) 2-Chlorophenol	4.376	128	657453	78.97	ppb	95
13) Decane	4.424	43	711425	78.28	ppb	99
14) 1,3-Dichlorobenzene	4.488	146	713277	78.87	ppb	96
15) 1,4-Dichlorobenzene	4.547	146	707509	77.04	ppb	100
16) Benzyl alcohol	4.643	108	446107	76.49	ppb	95
17) 1,2-Dichlorobenzene	4.664	146	652562	76.08	ppb	99
18) Acetophenone	4.852	105	883072	74.16	ppb	91
19) 2-Methylphenol	4.739	108	552210	75.48	ppb	98
20) 2,2'-oxybis(1-Chloropr...	4.750	121	213582	72.96	ppb	98
21) 3&4-Methylphenol	4.857	108	575816	75.50	ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p357\
 Data File : 6p8275.D
 Acq On : 26 Jun 2014 4:04 pm
 Operator : samtap
 Sample : ic357-80
 Misc : op75816,e6p357
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 26 18:49:45 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Thu Jun 26 16:15:41 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
22) n-Nitroso-di-n-propyla...	4.857	70	445868	72.33	ppb	96
23) Hexachloroethane	4.932	201	250339	79.48	ppb	96
26) Nitrobenzene	4.991	77	838518	77.89	ppb	93
27) Quinoline	5.969	129	1320299	77.59	ppb	98
28) Isophorone	5.194	82	1408006	76.49	ppb	98
29) 2-Nitrophenol	5.263	139	364865	80.31	ppb	100
30) 2,4-Dimethylphenol	5.306	107	652894	85.87	ppb	99
31) Benzoic Acid	5.435	105	636672m	94.26	ppb	
32) bis(2-Chloroethoxy)met...	5.386	93	806023	78.43	ppb	99
33) 2,4-Dichlorophenol	5.483	162	547461	80.82	ppb	98
34) 2,6-Dichlorophenol	5.697	162	514191	77.33	ppb	99
35) 1,3,5-Trichlorobenzene	5.274	180	579788	74.95	ppb	99
36) 1,2,4-Trichlorobenzene	5.558	180	567090	76.58	ppb	99
37) 1,2,3-Trichlorobenzene	5.777	180	556835	75.41	ppb	99
38) Naphthalene	5.633	128	1833089	75.97	ppb	99
39) 4-Chloroaniline	5.686	127	754033	76.74	ppb	98
40) 2,3-Dichloroaniline	6.686	161	662155	75.91	ppb	99
41) Caprolactam	6.071	55	352109	83.30	ppb	98
42) Hexachlorobutadiene	5.761	225	301980	76.82	ppb	99
43) 4-Chloro-3-methylphenol	6.205	107	642320	80.30	ppb	96
44) 2-Methylnaphthalene	6.355	141	1063300	76.36	ppb	99
45) 1-Methylnaphthalene	6.467	141	1079216	76.46	ppb	98
46) Dimethylnaphthalene	7.114	156	1140884	76.33	ppb	99
48) Hexachlorocyclopentadiene	6.552	237	659591	162.54	ppb	99
49) 2,4,6-Trichlorophenol	6.697	196	388076	77.89	ppb	99
50) 2,4,5-Trichlorophenol	6.745	196	444996	80.72	ppb	97
52) 2-Chloronaphthalene	6.932	162	1225156	76.31	ppb	99
53) Biphenyl	6.916	154	1506063	76.68	ppb	99
54) 2-Nitroaniline	7.071	65	466130	80.84	ppb	100
55) Dimethylphthalate	7.328	163	1366042	76.99	ppb	99
56) Acenaphthylene	7.467	152	1927059	78.12	ppb	100
57) 2,6-Dinitrotoluene	7.398	165	346789	83.98	ppb	99
58) 3-Nitroaniline	7.622	138	393036	84.36	ppb	93
59) Acenaphthene	7.708	153	1169203	76.27	ppb	100
60) 2,4-Dinitrophenol	7.767	184	445156	173.35	ppb	99
61) 4-Nitrophenol	7.895	109	216638	91.46	ppb	97
62) Dibenzofuran	7.948	168	1632412	74.35	ppb	98
63) 2,4-Dinitrotoluene	7.948	165	431509	81.32	ppb	95
64) 2,3,4,6-Tetrachlorophenol	8.136	232	363043	84.83	ppb	99
65) Diethylphthalate	8.328	149	1315640	53.04	ppb	98
66) Fluorene	8.435	166	1421359	77.50	ppb	97
67) 4-Chlorophenyl-phenyle...	8.457	204	652854	76.28	ppb	98
68) 4-Nitroaniline	8.494	138	394371	83.51	ppb	99
70) 4,6-Dinitro-2-methylph...	8.537	198	313166	84.77	ppb	99
71) n-Nitrosodiphenylamine	8.638	169	978809	78.46	ppb	99
72) 1,2-Diphenylhydrazine	8.687	77	1720672	77.51	ppb	99
74) 4-Bromophenyl-phenylether	9.179	248	375359	77.61	ppb	95
75) Hexachlorobenzene	9.259	284	429075	75.73	ppb	97
76) Pentachlorophenol	9.569	266	551892	163.08	ppb	95
77) Phenanthrene	9.869	178	2031746	76.79	ppb	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p357\
 Data File : 6p8275.D
 Acq On : 26 Jun 2014 4:04 pm
 Operator : samtap
 Sample : ic357-80
 Misc : op75816,e6p357
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 26 18:49:45 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Thu Jun 26 16:15:41 2014
 Response via : Initial Calibration

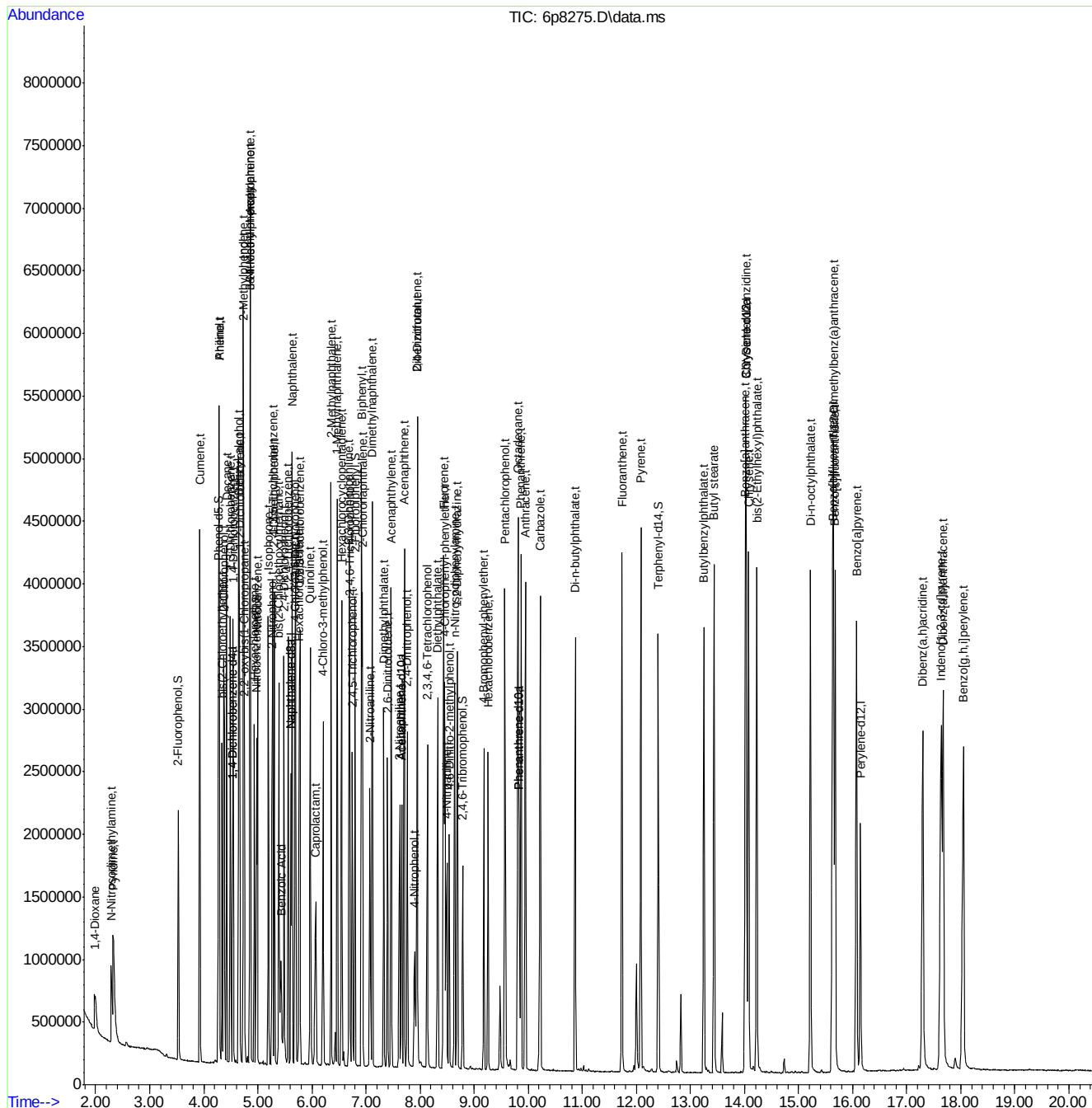
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78) Anthracene	9.949	178	2035798	77.62	ppb	99
79) Carbazole	10.222	167	2029405	78.26	ppb	99
80) Di-n-butylphthalate	10.869	149	2284616	78.98	ppb	99
81) Fluoranthene	11.735	202	2304224	78.55	ppb	99
82) Octadecane	9.810	57	989189	77.07	ppb	99
84) Pyrene	12.083	202	2410264	80.98	ppb	97
85) Butyl stearate	13.436	56	742214	74.18	ppb	97
87) Butylbenzylphthalate	13.249	149	1060255	84.84	ppb	97
88) Benzo[a]anthracene	14.014	228	2107511	80.74	ppb	99
89) 3,3'-Dichlorobenzidine	14.030	252	782970	84.36	ppb	98
90) Chrysene	14.073	228	2106364	80.85	ppb	99
91) bis(2-Ethylhexyl)phtha...	14.228	149	1469656	86.27	ppb	96
93) Di-n-octylphthalate	15.217	149	2618984	83.78	ppb	99
94) Benzo[b]fluoranthene	15.629	252	2318724	79.26	ppb	97
95) Benzo[k]fluoranthene	15.677	252	2253915	75.23	ppb	99
96) Benzo[a]pyrene	16.073	252	2145280	78.41	ppb	99
97) Indeno[1,2,3-cd]pyrene	17.635	276	2406869	96.12	ppb	99
98) Dibenz(a,h)acridine	17.298	279	2125206	90.68	ppb	99
99) Dibenz[a,h]anthracene	17.672	278	2389440	89.19	ppb	98
100) 7,12-Dimethylbenz(a)an...	15.645	256	1044165	97.23	ppb	99
101) Benzo[g,h,i]perylene	18.047	276	2329640	83.49	ppb	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p357\
Data File : 6p8275.D
Acq On : 26 Jun 2014 4:04 pm
Operator : samtap
Sample : ic357-80
Misc : op75816,e6p357
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 26 18:49:45 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Thu Jun 26 16:15:41 2014
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: E6P357-IC357

Method: SW846 8270D

Lab FileID: 6P8275.D

Analyst approved: 07/01/14 10:59 Andrew Lee Smith

Injection Time: 06/26/14 16:04

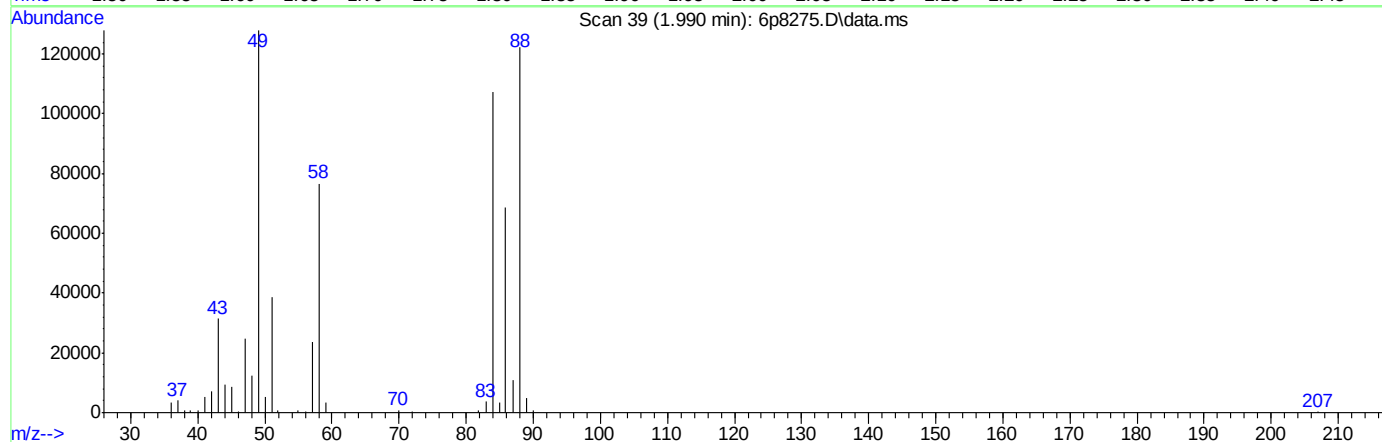
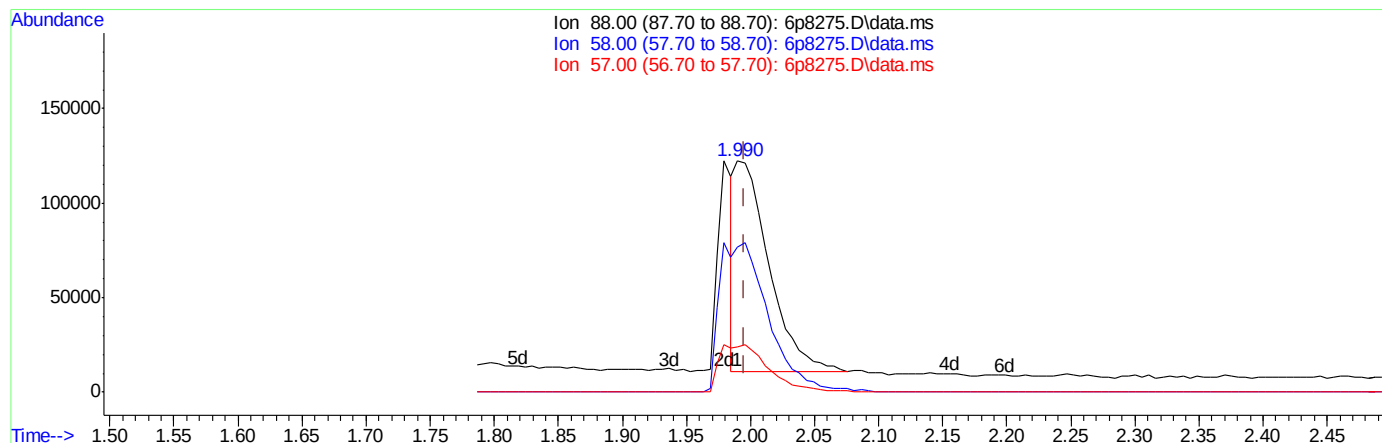
Supervisor approved: 07/02/14 15:14 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
1,4-Dioxane	123-91-1		1.98	Poor instrument integration
Benzoic Acid	65-85-0		5.43	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p357\
Data File : 6p8275.D
Acq On : 26 Jun 2014 4:04 pm
Operator : samtap
Sample : ic357-80
Misc : op75816,e6p357
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 26 18:48:34 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Thu Jun 26 16:15:41 2014
Response via : Initial Calibration



(2) 1,4-Dioxane

1.990min (-0.005) 62.07ppb

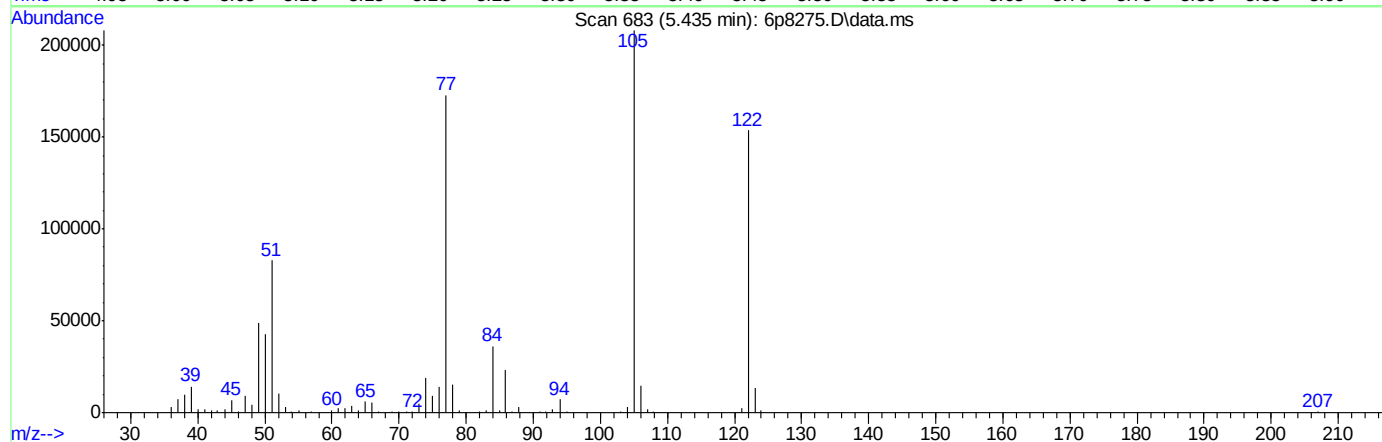
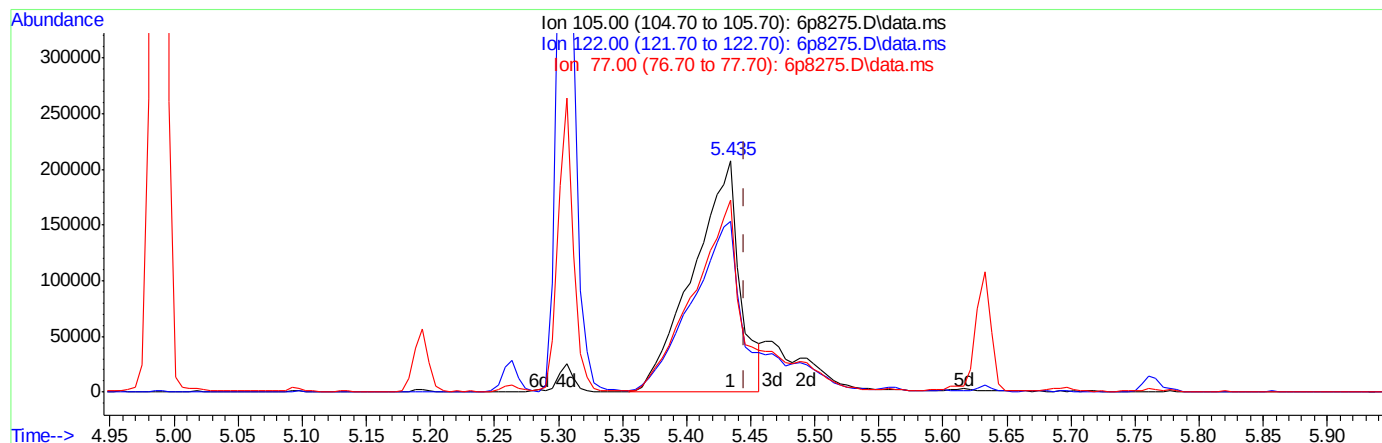
response 202658

Ion	Exp%	Act%
88.00	100	100
58.00	66.20	71.17
57.00	22.60	22.51
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\6p357\
Data File : 6p8275.D
Acq On : 26 Jun 2014 4:04 pm
Operator : samtap
Sample : ic357-80
Misc : op75816,e6p357
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 26 18:48:34 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Thu Jun 26 16:15:41 2014
Response via : Initial Calibration



(31) Benzoic Acid

5.435min (-0.011) 77.61ppb

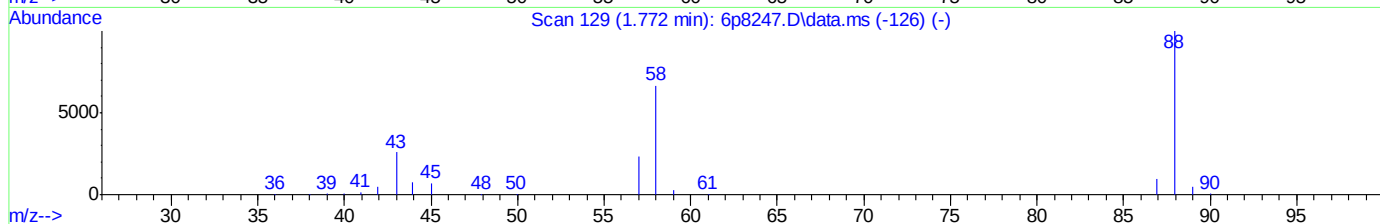
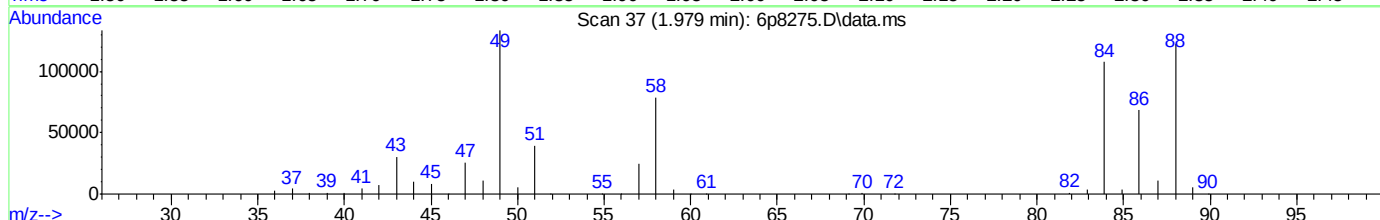
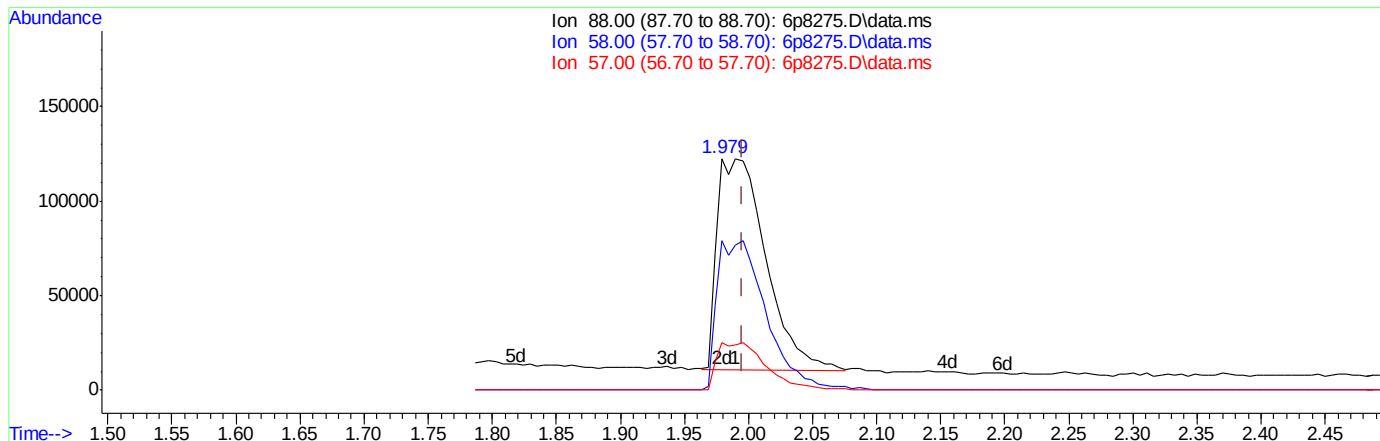
response 524165

Ion	Exp%	Act%
105.00	100	100
122.00	71.30	73.24
77.00	82.00	77.88
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p357\
Data File : 6p8275.D
Acq On : 26 Jun 2014 4:04 pm
Operator : samtap
Sample : ic357-80
Misc : op75816,e6p357
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 26 18:49:45 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Thu Jun 26 16:15:41 2014
Response via : Initial Calibration



TIC: 6p8275.D\data.ms

(2) 1,4-Dioxane

1.979min (-0.016) 90.09ppb m

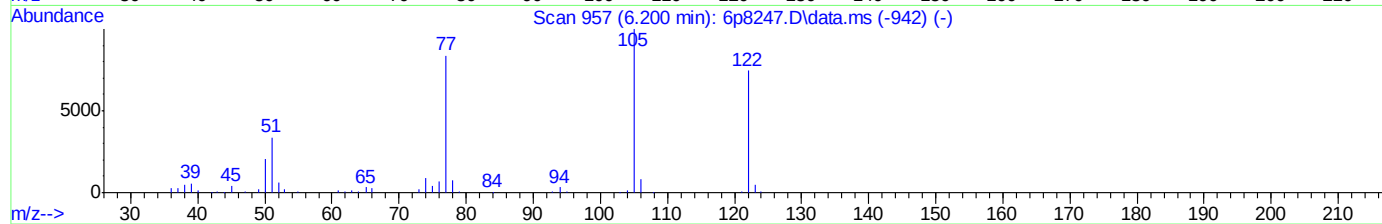
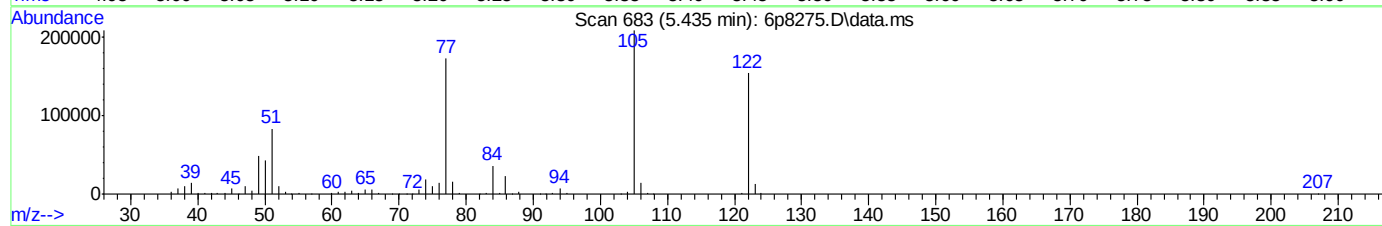
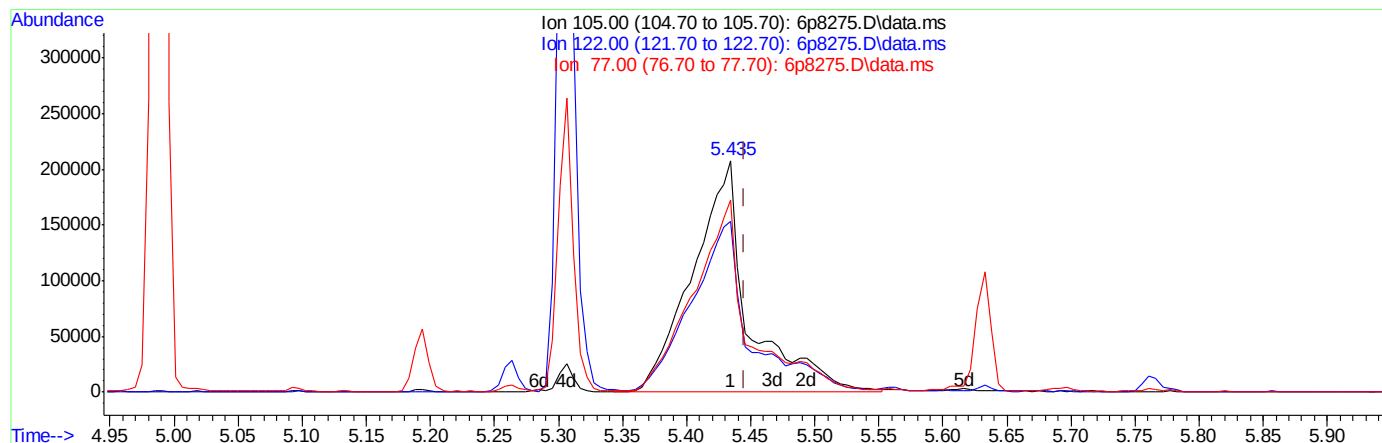
response 294126

Ion	Exp%	Act%
88.00	100	100
58.00	66.20	49.04
57.00	22.60	15.51
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\6p357\
Data File : 6p8275.D
Acq On : 26 Jun 2014 4:04 pm
Operator : samtap
Sample : ic357-80
Misc : op75816,e6p357
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 26 18:49:45 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Thu Jun 26 16:15:41 2014
Response via : Initial Calibration



TIC: 6p8275.D\data.ms

(31) Benzoic Acid

5.435min (-0.011) 94.26ppb m

response 636672

Ion	Exp%	Act%
105.00	100	100
122.00	71.30	60.30
77.00	82.00	64.12
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p357\
 Data File : 6p8276.D
 Acq On : 26 Jun 2014 4:33 pm
 Operator : samtap
 Sample : ic357-10
 Misc : op75816,e6p357
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 26 18:55:58 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Thu Jun 26 18:50:07 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.531	152	255682	40.00	ppb	0.00
24) Naphthalene-d8	5.606	136	1020473	40.00	ppb	0.00
47) Acenaphthene-d10	7.654	164	613875	40.00	ppb	0.00
69) Phenanthrene-d10	9.821	188	1030515	40.00	ppb	-0.01
83) Chrysene-d12	14.019	240	1103272	40.00	ppb	-0.01
92) Perylene-d12	16.137	264	1047707	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	4.531	152	255682	40.00	ppb	0.00
104) Phenanthrene-d10a	9.821	188	1030515	40.00	ppb	-0.01
107) Chrysene-d12a	14.019	240	1103272	40.00	ppb	-0.01
110) Acenaphthene-d10a	7.654	164	613875	40.00	ppb	0.00
112) Naphthalene-d8a	5.606	136	1020473	40.00	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol	3.525	112	104233	10.41	ppb	0.00
Spiked Amount	50.000		Recovery	=	20.82%	
8) Phenol-d5	4.263	99	131604	10.71	ppb	-0.01
Spiked Amount	50.000		Recovery	=	21.42%	
25) Nitrobenzene-d5	4.964	82	121192	10.57	ppb	-0.01
Spiked Amount	50.000		Recovery	=	21.14%	
51) 2-Fluorobiphenyl	6.788	172	221186	11.21	ppb	-0.01
Spiked Amount	50.000		Recovery	=	22.42%	
73) 2,4,6-Tribromophenol	8.778	330	28751	10.07	ppb	-0.01
Spiked Amount	50.000		Recovery	=	20.14%	
86) Terphenyl-d14	12.393	244	259815	10.14	ppb	-0.01
Spiked Amount	50.000		Recovery	=	20.28%	
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	2.001	88	43643	10.23	ppb	93
3) Pyridine	2.343	79	120627	11.46	ppb	100
4) N-Nitrosodimethylamine	2.300	74	73552	10.67	ppb	97
6) Indene	4.729	116	187480	11.42	ppb	98
7) Cumene	3.926	105	270898	10.96	ppb	99
9) Phenol	4.274	94	165364	11.57	ppb	57
10) Aniline	4.285	93	178962	11.95	ppb	97
11) bis(2-Chloroethyl)ether	4.333	93	111037	10.70	ppb	99
12) 2-Chlorophenol	4.376	128	107400	11.03	ppb	99
13) Decane	4.418	43	122924	11.56	ppb	96
14) 1,3-Dichlorobenzene	4.488	146	117546	11.11	ppb	97
15) 1,4-Dichlorobenzene	4.541	146	116956	10.88	ppb	97
16) Benzyl alcohol	4.638	108	77366	11.34	ppb	99
17) 1,2-Dichlorobenzene	4.659	146	113474	11.31	ppb	99
18) Acetophenone	4.846	105	160927	11.55	ppb	91
19) 2-Methylphenol	4.734	108	100068	11.69	ppb	98
20) 2,2'-oxybis(1-Chloropr...	4.745	121	37685	11.00	ppb	94
21) 3&4-Methylphenol	4.852	108	106946	11.98	ppb	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p357\
 Data File : 6p8276.D
 Acq On : 26 Jun 2014 4:33 pm
 Operator : samtap
 Sample : ic357-10
 Misc : op75816,e6p357
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 26 18:55:58 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Thu Jun 26 18:50:07 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
22) n-Nitroso-di-n-propyla...	4.846	70	82559	11.45	ppb	93
23) Hexachloroethane	4.932	201	41720	11.32	ppb	90
26) Nitrobenzene	4.980	77	137802	11.07	ppb	99
27) Quinoline	5.959	129	211702	10.76	ppb	98
28) Isophorone	5.183	82	228558	10.74	ppb	99
29) 2-Nitrophenol	5.258	139	57705	10.98	ppb	95
30) 2,4-Dimethylphenol	5.301	107	91004	10.35	ppb	95
31) Benzoic Acid	5.381	105	71000	8.50	ppb	96
32) bis(2-Chloroethoxy)met...	5.376	93	128718	10.83	ppb	100
33) 2,4-Dichlorophenol	5.477	162	86294	11.02	ppb	97
34) 2,6-Dichlorophenol	5.691	162	85389	11.10	ppb	98
35) 1,3,5-Trichlorobenzene	5.269	180	102473	11.45	ppb	98
36) 1,2,4-Trichlorobenzene	5.552	180	97224	11.35	ppb	97
37) 1,2,3-Trichlorobenzene	5.772	180	96569	11.31	ppb	98
38) Naphthalene	5.627	128	310766	11.14	ppb	99
39) 4-Chloroaniline	5.681	127	130634	11.50	ppb	99
40) 2,3-Dichloroaniline	6.681	161	110549	10.96	ppb	99
41) Caprolactam	6.012	55	52113	10.66	ppb	95
42) Hexachlorobutadiene	5.761	225	53037	11.67	ppb	94
43) 4-Chloro-3-methylphenol	6.194	107	98903	10.69	ppb	91
44) 2-Methylnaphthalene	6.349	141	179035	11.12	ppb	99
45) 1-Methylnaphthalene	6.462	141	180511	11.06	ppb	99
46) Dimethylnaphthalene	7.103	156	195729	11.32	ppb	100
48) Hexachlorocyclopentadiene	6.542	237	100089	21.48	ppb	99
49) 2,4,6-Trichlorophenol	6.686	196	66445	11.61	ppb	98
50) 2,4,5-Trichlorophenol	6.734	196	67380	10.64	ppb	97
52) 2-Chloronaphthalene	6.927	162	211140	11.45	ppb	96
53) Biphenyl	6.911	154	257685	11.43	ppb	98
54) 2-Nitroaniline	7.061	65	70688	10.68	ppb	97
55) Dimethylphthalate	7.317	163	219334	10.77	ppb	99
56) Acenaphthylene	7.456	152	313121	11.05	ppb	99
57) 2,6-Dinitrotoluene	7.382	165	51779	10.92	ppb	96
58) 3-Nitroaniline	7.601	138	58095	10.86	ppb	97
59) Acenaphthene	7.697	153	192484	10.94	ppb	95
60) 2,4-Dinitrophenol	7.756	184	47721	16.18	ppb	97
61) 4-Nitrophenol	7.900	109	22466	8.26	ppb	# 42
62) Dibenzofuran	7.938	168	288739	11.45	ppb	99
63) 2,4-Dinitrotoluene	7.933	165	72450	11.89	ppb	91
64) 2,3,4,6-Tetrachlorophenol	8.125	232	54317	11.05	ppb	98
65) Diethylphthalate	8.312	149	215425	7.56	ppb	99
66) Fluorene	8.425	166	234853	11.15	ppb	98
67) 4-Chlorophenyl-phenyle...	8.446	204	111584	11.35	ppb	99
68) 4-Nitroaniline	8.467	138	57971	10.69	ppb	96
70) 4,6-Dinitro-2-methylph...	8.521	198	37544	8.55	ppb	96
71) n-Nitrosodiphenylamine	8.622	169	161670	10.90	ppb	98
72) 1,2-Diphenylhydrazine	8.676	77	278468	10.55	ppb	99
74) 4-Bromophenyl-phenylether	9.173	248	60564	10.53	ppb	99
75) Hexachlorobenzene	9.248	284	72395	10.75	ppb	97
76) Pentachlorophenol	9.564	266	83274	20.70	ppb	97
77) Phenanthrene	9.858	178	333583	10.61	ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p357\
 Data File : 6p8276.D
 Acq On : 26 Jun 2014 4:33 pm
 Operator : samtap
 Sample : ic357-10
 Misc : op75816,e6p357
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 26 18:55:58 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Thu Jun 26 18:50:07 2014
 Response via : Initial Calibration

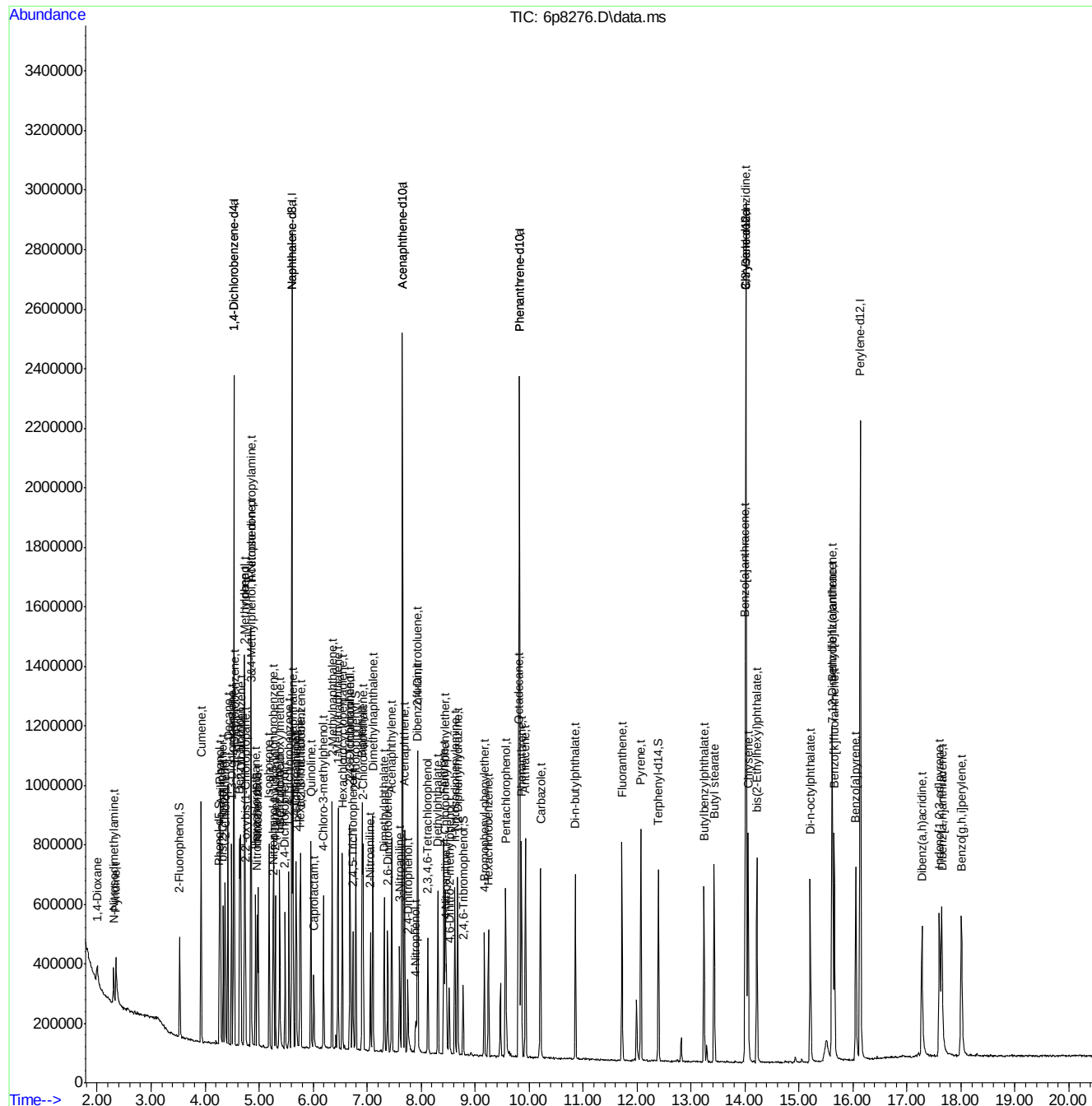
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78) Anthracene	9.933	178	337114	10.81	ppb	99
79) Carbazole	10.211	167	334992	10.87	ppb	99
80) Di-n-butylphthalate	10.858	149	364839	10.64	ppb	99
81) Fluoranthene	11.719	202	375920	10.83	ppb	97
82) Octadecane	9.805	57	165632	10.86	ppb	99
84) Pyrene	12.067	202	400211	10.20	ppb	95
85) Butyl stearate	13.426	56	118379	9.17	ppb	93
87) Butylbenzylphthalate	13.238	149	165258	9.91	ppb	96
88) Benzo[a]anthracene	14.003	228	349752	10.17	ppb	99
89) 3,3'-Dichlorobenzidine	14.014	252	132570	10.72	ppb	97
90) Chrysene	14.057	228	352195	10.26	ppb	99
91) bis(2-Ethylhexyl)phtha...	14.217	149	231363	9.95	ppb	97
93) Di-n-octylphthalate	15.207	149	397509	10.51	ppb	98
94) Benzo[b]fluoranthene	15.613	252	373896	10.84	ppb	98
95) Benzo[k]fluoranthene	15.651	252	393406	11.28	ppb	98
96) Benzo[a]pyrene	16.052	252	347642	10.80	ppb	98
97) Indeno[1,2,3-cd]pyrene	17.597	276	343208	11.04	ppb	96
98) Dibenz(a,h)acridine	17.277	279	314692	10.99	ppb	99
99) Dibenz[a,h]anthracene	17.646	278	375915	11.54	ppb	95
100) 7,12-Dimethylbenz(a)an...	15.618	256	143533	10.73	ppb	98
101) Benzo[g,h,i]perylene	18.009	276	366973m	11.01	ppb	

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

Quantitation Report (QT Reviewed)

```
Data Path   : C:\msdchem\1\DATA\6p357\  
Data File   : 6p8276.D  
Acq On      : 26 Jun 2014    4:33 pm  
Operator    : samtap  
Sample      : ic357-10  
Misc        : op75816,6p357  
ALS Vial    : 5      Sample Multiplier: 1
```

Quant Time: Jun 26 18:55:58 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Thu Jun 26 18:50:07 2014
Response via : Initial Calibration



M6P357.M Tue Jul 01 10:42:29 2014 RPT1

Page: 4

9.6.32

Manual Integration Approval Summary

Sample Number: E6P357-IC357

Method: SW846 8270D

Lab FileID: 6P8276.D

Analyst approved: 07/01/14 10:59 Andrew Lee Smith

Injection Time: 06/26/14 16:33

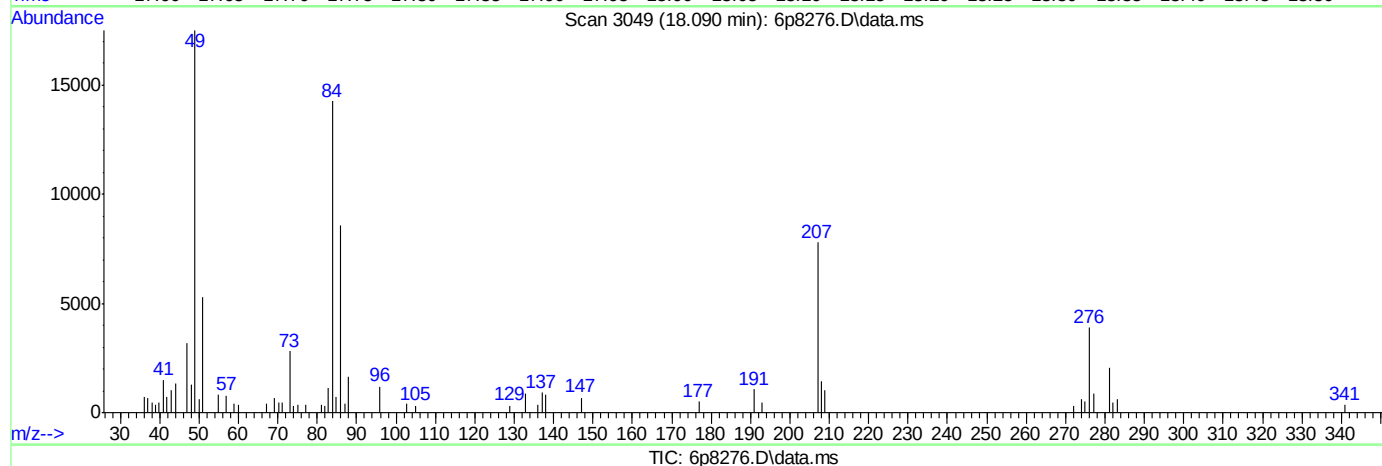
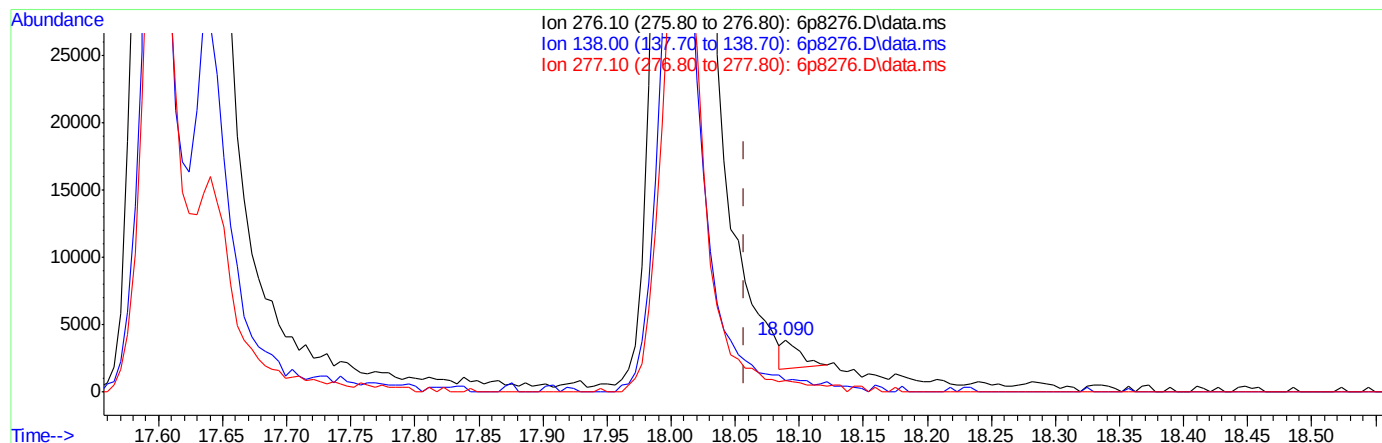
Supervisor approved: 07/02/14 15:14 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzo(g,h,i)perylene	191-24-2		18.01	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\6p357\
Data File : 6p8276.D
Acq On : 26 Jun 2014 4:33 pm
Operator : samtap
Sample : ic357-10
Misc : op75816,e6p357
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 26 18:54:59 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Thu Jun 26 18:50:07 2014
Response via : Initial Calibration



(101) Benzo[g,h,i]perylene (t)

18.090min (+0.032) 0.06ppb

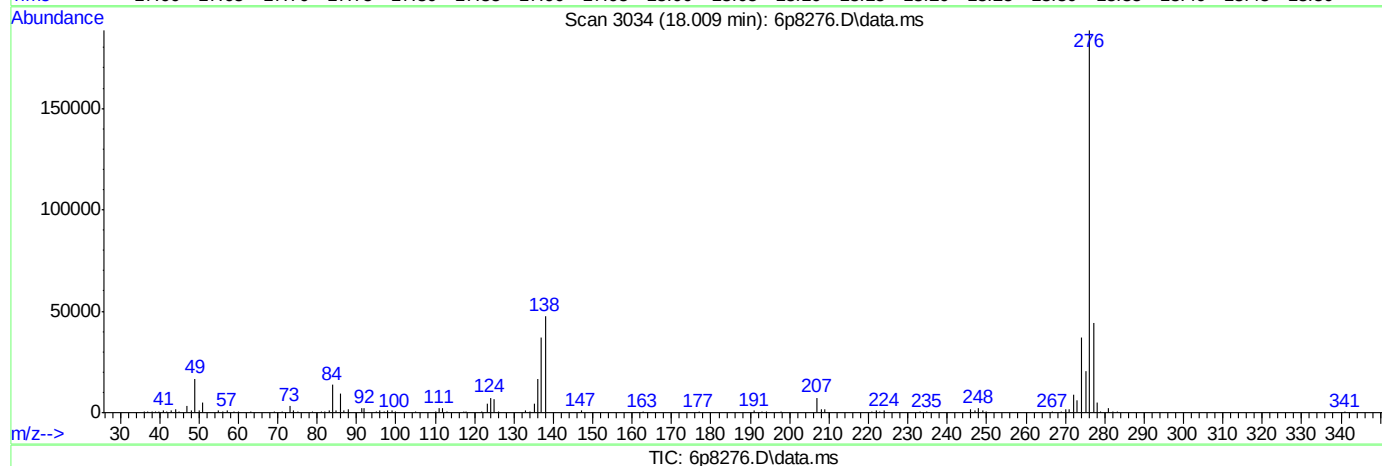
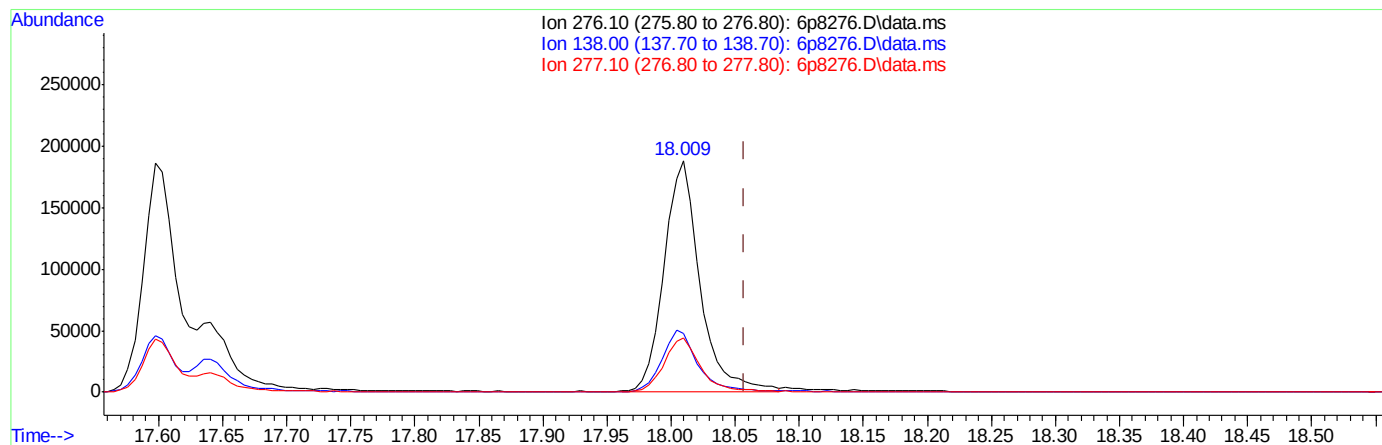
response 1915

Ion	Exp%	Act%
276.10	100	100
138.00	25.50	0.00
277.10	22.80	22.58
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\6p357\
Data File : 6p8276.D
Acq On : 26 Jun 2014 4:33 pm
Operator : samtap
Sample : ic357-10
Misc : op75816,e6p357
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 26 18:54:59 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Thu Jun 26 18:50:07 2014
Response via : Initial Calibration



(101) Benzo[g,h,i]perylene (t)

18.009min (-0.048) 11.01ppb m

response 366973

Ion	Exp%	Act%
276.10	100	100
138.00	25.50	25.29
277.10	22.80	23.51
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p357\
 Data File : 6p8277.D
 Acq On : 26 Jun 2014 5:01 pm
 Operator : samtap
 Sample : icc357-50
 Misc : op75816,e6p357
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 26 18:57:08 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Thu Jun 26 18:56:10 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.531	152	234728	40.00	ppb	0.00
24) Naphthalene-d8	5.606	136	945346	40.00	ppb	0.00
47) Acenaphthene-d10	7.654	164	598665	40.00	ppb	0.00
69) Phenanthrene-d10	9.826	188	981342	40.00	ppb	0.00
83) Chrysene-d12	14.024	240	1010428	40.00	ppb	0.00
92) Perylene-d12	16.137	264	1068240	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	4.531	152	234728	40.00	ppb	0.00
104) Phenanthrene-d10a	9.826	188	981342	40.00	ppb	0.00
107) Chrysene-d12a	14.024	240	1010428	40.00	ppb	0.00
110) Acenaphthene-d10a	7.654	164	598665	40.00	ppb	0.00
112) Naphthalene-d8a	5.606	136	945346	40.00	ppb	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	3.525	112	392275	42.32	ppb	0.00
Spiked Amount	50.000		Recovery	=	84.64%	
8) Phenol-d5	4.269	99	495983	43.36	ppb	0.00
Spiked Amount	50.000		Recovery	=	86.72%	
25) Nitrobenzene-d5	4.969	82	465724	43.36	ppb	0.00
Spiked Amount	50.000		Recovery	=	86.72%	
51) 2-Fluorobiphenyl	6.793	172	817611	41.50	ppb	0.00
Spiked Amount	50.000		Recovery	=	83.00%	
73) 2,4,6-Tribromophenol	8.783	330	116253	42.69	ppb	0.00
Spiked Amount	50.000		Recovery	=	85.38%	
86) Terphenyl-d14	12.398	244	961137	40.85	ppb	0.00
Spiked Amount	50.000		Recovery	=	81.70%	
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	2.001	88	177103	44.96	ppb	99
3) Pyridine	2.332	79	449118	45.17	ppb	99
4) N-Nitrosodimethylamine	2.295	74	281230	43.84	ppb	95
6) Indene	4.729	116	644058	41.54	ppb	98
7) Cumene	3.926	105	975138	42.16	ppb	99
9) Phenol	4.279	94	576850	42.63	ppb	# 15
10) Aniline	4.285	93	668938	46.84	ppb	94
11) bis(2-Chloroethyl)ether	4.333	93	414417	42.89	ppb	98
12) 2-Chlorophenol	4.375	128	387367	42.45	ppb	97
13) Decane	4.418	43	434541	43.17	ppb	98
14) 1,3-Dichlorobenzene	4.488	146	419799	42.28	ppb	97
15) 1,4-Dichlorobenzene	4.541	146	421896	42.03	ppb	98
16) Benzyl alcohol	4.643	108	271808	42.26	ppb	97
17) 1,2-Dichlorobenzene	4.659	146	395140	41.79	ppb	99
18) Acetophenone	4.846	105	554535	42.05	ppb	92
19) 2-Methylphenol	4.734	108	355637	43.77	ppb	98
20) 2,2'-oxybis(1-Chloropr...	4.745	121	135161	42.14	ppb	93
21) 3&4-Methylphenol	4.857	108	378254	44.41	ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p357\
 Data File : 6p8277.D
 Acq On : 26 Jun 2014 5:01 pm
 Operator : samtap
 Sample : icc357-50
 Misc : op75816,e6p357
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 26 18:57:08 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Thu Jun 26 18:56:10 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
22) n-Nitroso-di-n-propyla...	4.852	70	287784	42.24	ppb	96
23) Hexachloroethane	4.932	201	150390	43.30	ppb	91
26) Nitrobenzene	4.985	77	502037	42.62	ppb	94
27) Quinoline	5.964	129	774524	41.85	ppb	97
28) Isophorone	5.189	82	848523	42.40	ppb	98
29) 2-Nitrophenol	5.258	139	216598	43.64	ppb	97
30) 2,4-Dimethylphenol	5.301	107	395778	48.25	ppb	97
31) Benzoic Acid	5.408	105	337507	45.32	ppb	83
32) bis(2-Chloroethoxy)met...	5.381	93	486048	43.43	ppb	100
33) 2,4-Dichlorophenol	5.477	162	317921	42.94	ppb	96
34) 2,6-Dichlorophenol	5.691	162	312227	42.88	ppb	99
35) 1,3,5-Trichlorobenzene	5.269	180	358123	41.99	ppb	99
36) 1,2,4-Trichlorobenzene	5.558	180	346419	42.51	ppb	99
37) 1,2,3-Trichlorobenzene	5.771	180	343310	42.29	ppb	98
38) Naphthalene	5.627	128	1115279	42.19	ppb	99
39) 4-Chloroaniline	5.681	127	492293	45.41	ppb	98
40) 2,3-Dichloroaniline	6.681	161	405944	42.62	ppb	97
41) Caprolactam	6.050	55	204434	44.55	ppb	98
42) Hexachlorobutadiene	5.761	225	187713	43.13	ppb	98
43) 4-Chloro-3-methylphenol	6.199	107	378310	43.54	ppb	95
44) 2-Methylnaphthalene	6.354	141	654793	42.93	ppb	98
45) 1-Methylnaphthalene	6.461	141	654132	42.36	ppb	99
46) Dimethylnaphthalene	7.109	156	701838	42.70	ppb	98
48) Hexachlorocyclopentadiene	6.547	237	401483	86.75	ppb	100
49) 2,4,6-Trichlorophenol	6.691	196	236564	41.07	ppb	99
50) 2,4,5-Trichlorophenol	6.740	196	272496	43.58	ppb	99
52) 2-Chloronaphthalene	6.927	162	756882	40.91	ppb	100
53) Biphenyl	6.911	154	927785	41.01	ppb	99
54) 2-Nitroaniline	7.066	65	271667	41.51	ppb	95
55) Dimethylphthalate	7.323	163	841548	41.72	ppb	99
56) Acenaphthylene	7.462	152	1163602	41.25	ppb	99
57) 2,6-Dinitrotoluene	7.387	165	204492	43.42	ppb	98
58) 3-Nitroaniline	7.611	138	233085	43.92	ppb	91
59) Acenaphthene	7.697	153	718108	41.07	ppb	98
60) 2,4-Dinitrophenol	7.756	184	244972	89.46	ppb	99
61) 4-Nitrophenol	7.884	109	125272	48.93	ppb	97
62) Dibenzofuran	7.938	168	1009720	39.91	ppb	99
63) 2,4-Dinitrotoluene	7.938	165	266751	43.26	ppb	88
64) 2,3,4,6-Tetrachlorophenol	8.125	232	215399	44.02	ppb	98
65) Diethylphthalate	8.317	149	808947	30.62	ppb	98
66) Fluorene	8.424	166	869217	41.37	ppb	98
67) 4-Chlorophenyl-phenyle...	8.451	204	412805	41.94	ppb	99
68) 4-Nitroaniline	8.478	138	238216	44.43	ppb	99
70) 4,6-Dinitro-2-methylph...	8.526	198	174922	43.40	ppb	96
71) n-Nitrosodiphenylamine	8.628	169	601392	41.83	ppb	99
72) 1,2-Diphenylhydrazine	8.681	77	1033596	40.68	ppb	98
74) 4-Bromophenyl-phenylether	9.173	248	232575	42.03	ppb	98
75) Hexachlorobenzene	9.248	284	266343	40.92	ppb	97
76) Pentachlorophenol	9.564	266	337657	87.38	ppb	96
77) Phenanthrene	9.858	178	1241723	40.96	ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p357\
 Data File : 6p8277.D
 Acq On : 26 Jun 2014 5:01 pm
 Operator : samtap
 Sample : icc357-50
 Misc : op75816,e6p357
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 26 18:57:08 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Thu Jun 26 18:56:10 2014
 Response via : Initial Calibration

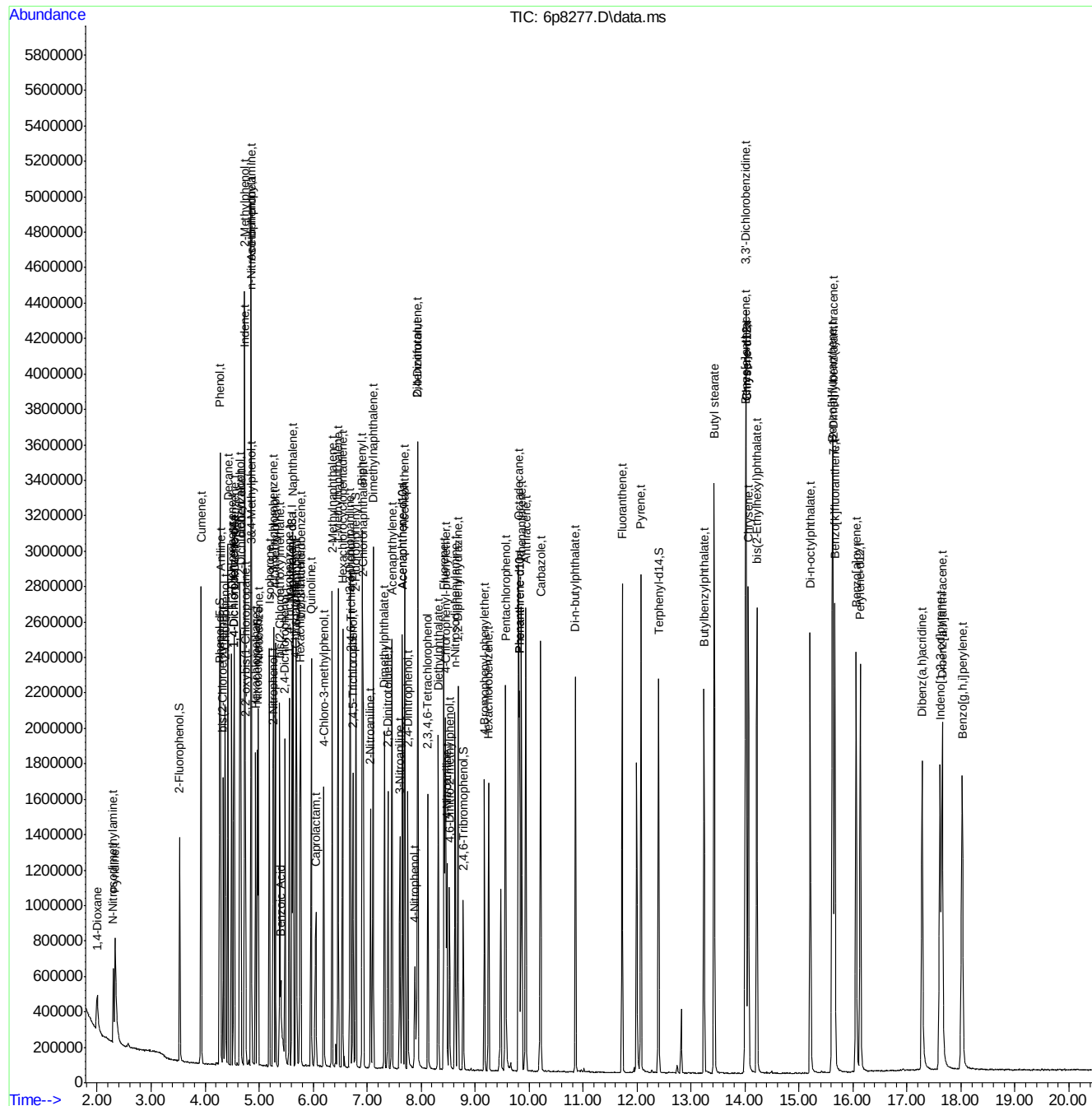
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78) Anthracene	9.938	178	1272529	42.18	ppb	99
79) Carbazole	10.211	167	1230420	41.20	ppb	98
80) Di-n-butylphthalate	10.858	149	1408148	42.59	ppb	100
81) Fluoranthene	11.725	202	1423306	42.36	ppb	99
82) Octadecane	9.804	57	603842	40.86	ppb	99
84) Pyrene	12.072	202	1470406	40.76	ppb	96
85) Butyl stearate	13.425	56	626644	53.90	ppb	96
87) Butylbenzylphthalate	13.244	149	646668	42.43	ppb	96
88) Benzo[a]anthracene	14.008	228	1281636	40.57	ppb	98
89) 3,3'-Dichlorobenzidine	14.019	252	471192	41.03	ppb	98
90) Chrysene	14.062	228	1275688	40.37	ppb	99
91) bis(2-Ethylhexyl)phtha...	14.217	149	899243	42.29	ppb	98
93) Di-n-octylphthalate	15.207	149	1572466	40.09	ppb	99
94) Benzo[b]fluoranthene	15.618	252	1360990	38.06	ppb	99
95) Benzo[k]fluoranthene	15.661	252	1401308	38.42	ppb	99
96) Benzo[a]pyrene	16.057	252	1298033	38.94	ppb	99
97) Indeno[1,2,3-cd]pyrene	17.613	276	1315290	40.65	ppb	96
98) Dibenz(a,h)acridine	17.282	279	1225085	41.16	ppb	100
99) Dibenz[a,h]anthracene	17.651	278	1384209	40.43	ppb	98
100) 7,12-Dimethylbenz(a)an...	15.629	256	661608	47.81	ppb	99
101) Benzo[g,h,i]perylene	18.025	276	1365582	39.38	ppb	99

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

Quantitation Report (QT Reviewed)

```
Data Path   : C:\msdchem\1\DATA\e6p357\
Data File   : 6p8277.D
Acq On      : 26 Jun 2014    5:01 pm
Operator    : samtap
Sample      : icc357-50
Misc        : op75816,e6p357
ALS Vial    : 6      Sample Multiplier: 1
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Quant Time: Jun 26 18:57:08 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Thu Jun 26 18:56:10 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p357\
 Data File : 6p8278.D
 Acq On : 26 Jun 2014 5:29 pm
 Operator : samtap
 Sample : ic357-5
 Misc : op75816,e6p357
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 26 18:59:22 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Thu Jun 26 18:57:15 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.531	152	226656	40.00	ppb	0.00
24) Naphthalene-d8	5.606	136	927018	40.00	ppb	0.00
47) Acenaphthene-d10	7.649	164	560376	40.00	ppb	-0.01
69) Phenanthrene-d10	9.821	188	931631	40.00	ppb	-0.01
83) Chrysene-d12	14.014	240	993351	40.00	ppb	-0.02
92) Perylene-d12	16.132	264	918111	40.00	ppb	-0.01
102) 1,4-Dichlorobenzene-d4a	4.531	152	226656	40.00	ppb	0.00
104) Phenanthrene-d10a	9.821	188	931631	40.00	ppb	-0.01
107) Chrysene-d12a	14.014	240	993351	40.00	ppb	-0.02
110) Acenaphthene-d10a	7.649	164	560376	40.00	ppb	-0.01
112) Naphthalene-d8a	5.606	136	927018	40.00	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol	3.525	112	46036	5.28	ppb	0.00
Spiked Amount	50.000		Recovery	=	10.56%	
8) Phenol-d5	4.263	99	60827	5.63	ppb	-0.01
Spiked Amount	50.000		Recovery	=	11.26%	
25) Nitrobenzene-d5	4.964	82	54684	5.31	ppb	-0.01
Spiked Amount	50.000		Recovery	=	10.62%	
51) 2-Fluorobiphenyl	6.788	172	102650	5.73	ppb	-0.01
Spiked Amount	50.000		Recovery	=	11.46%	
73) 2,4,6-Tribromophenol	8.778	330	12780	5.07	ppb	-0.01
Spiked Amount	50.000		Recovery	=	10.14%	
86) Terphenyl-d14	12.393	244	117871	5.26	ppb	-0.01
Spiked Amount	50.000		Recovery	=	10.52%	
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	1.996	88	19007	5.10	ppb	89
3) Pyridine	2.349	79	52862	5.60	ppb	98
4) N-Nitrosodimethylamine	2.306	74	30802	5.08	ppb	92
6) Indene	4.729	116	87782	6.03	ppb	98
7) Cumene	3.926	105	125583	5.77	ppb	100
9) Phenol	4.274	94	73276	5.75	ppb	51
10) Aniline	4.279	93	84307	6.18	ppb	80
11) bis(2-Chloroethyl)ether	4.333	93	52228	5.73	ppb	96
12) 2-Chlorophenol	4.376	128	49054	5.71	ppb	97
13) Decane	4.418	43	57214	6.02	ppb	97
14) 1,3-Dichlorobenzene	4.488	146	53673	5.75	ppb	96
15) 1,4-Dichlorobenzene	4.542	146	54340	5.76	ppb	99
16) Benzyl alcohol	4.638	108	33930	5.61	ppb	98
17) 1,2-Dichlorobenzene	4.659	146	51875	5.84	ppb	99
18) Acetophenone	4.841	105	75811	6.12	ppb	97
19) 2-Methylphenol	4.729	108	44844	5.84	ppb	97
20) 2,2'-oxybis(1-Chloropr...	4.745	121	17176	5.69	ppb	93
21) 3&4-Methylphenol	4.852	108	45689	5.66	ppb	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p357\
 Data File : 6p8278.D
 Acq On : 26 Jun 2014 5:29 pm
 Operator : samtap
 Sample : ic357-5
 Misc : op75816,e6p357
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 26 18:59:22 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Thu Jun 26 18:57:15 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
22) n-Nitroso-di-n-propyla...	4.846	70	39714	6.20	ppb	96
23) Hexachloroethane	4.932	201	19160	5.84	ppb	88
26) Nitrobenzene	4.980	77	61445	5.45	ppb	95
27) Quinoline	5.959	129	95845	5.43	ppb	99
28) Isophorone	5.183	82	105201	5.50	ppb	99
29) 2-Nitrophenol	5.258	139	25564	5.37	ppb	99
30) 2,4-Dimethylphenol	5.301	107	40169	5.02	ppb	99
31) Benzoic Acid	5.371	105	25640m	3.58	ppb	
32) bis(2-Chloroethoxy)met...	5.376	93	59621	5.55	ppb	98
33) 2,4-Dichlorophenol	5.483	162	38815	5.47	ppb	96
34) 2,6-Dichlorophenol	5.691	162	38571	5.53	ppb	99
35) 1,3,5-Trichlorobenzene	5.269	180	47161	5.79	ppb	98
36) 1,2,4-Trichlorobenzene	5.552	180	45308	5.82	ppb	98
37) 1,2,3-Trichlorobenzene	5.772	180	44435	5.73	ppb	99
38) Naphthalene	5.627	128	146785	5.81	ppb	98
39) 4-Chloroaniline	5.681	127	59088	5.64	ppb	96
40) 2,3-Dichloroaniline	6.681	161	51134	5.61	ppb	99
41) Caprolactam	6.002	55	24450	5.53	ppb	92
42) Hexachlorobutadiene	5.756	225	24085	5.78	ppb	98
43) 4-Chloro-3-methylphenol	6.194	107	45202	5.42	ppb	99
44) 2-Methylnaphthalene	6.349	141	83951	5.75	ppb	99
45) 1-Methylnaphthalene	6.462	141	86483	5.86	ppb	95
46) Dimethylnaphthalene	7.104	156	89170	5.67	ppb	98
48) Hexachlorocyclopentadiene	6.542	237	39528	9.37	ppb	94
49) 2,4,6-Trichlorophenol	6.686	196	29288	5.60	ppb	96
50) 2,4,5-Trichlorophenol	6.740	196	30930	5.40	ppb	100
52) 2-Chloronaphthalene	6.922	162	97782	5.82	ppb	98
53) Biphenyl	6.906	154	120957	5.89	ppb	96
54) 2-Nitroaniline	7.061	65	31457	5.28	ppb	99
55) Dimethylphthalate	7.312	163	101791	5.54	ppb	99
56) Acenaphthylene	7.457	152	144467	5.64	ppb	99
57) 2,6-Dinitrotoluene	7.382	165	22237	5.16	ppb	99
58) 3-Nitroaniline	7.606	138	25583	5.26	ppb	92
59) Acenaphthene	7.692	153	90125	5.68	ppb	98
60) 2,4-Dinitrophenol	7.761	184	11701	4.66	ppb	95
61) 4-Nitrophenol	7.911	109	10941m	4.58	ppb	
62) Dibenzofuran	7.933	168	136657	5.97	ppb	97
63) 2,4-Dinitrotoluene	7.933	165	31520	5.59	ppb	88
64) 2,3,4,6-Tetrachlorophenol	8.130	232	24718	5.51	ppb	97
65) Diethylphthalate	8.312	149	99931	4.32	ppb	99
66) Fluorene	8.419	166	108189	5.66	ppb	100
67) 4-Chlorophenyl-phenyle...	8.446	204	51398	5.73	ppb	98
68) 4-Nitroaniline	8.467	138	25600	5.20	ppb	99
70) 4,6-Dinitro-2-methylph...	8.521	198	13628	3.66	ppb	94
71) n-Nitrosodiphenylamine	8.623	169	73179	5.51	ppb	98
72) 1,2-Diphenylhydrazine	8.676	77	126642	5.42	ppb	99
74) 4-Bromophenyl-phenylether	9.168	248	27377	5.35	ppb	91
75) Hexachlorobenzene	9.243	284	32453	5.42	ppb	95
76) Pentachlorophenol	9.569	266	34070	9.53	ppb	93
77) Phenanthrene	9.853	178	158942	5.69	ppb	100

9.6.34

9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p357\
 Data File : 6p8278.D
 Acq On : 26 Jun 2014 5:29 pm
 Operator : samtap
 Sample : ic357-5
 Misc : op75816,e6p357
 ALS Vial : 7 Sample Multiplier: 1

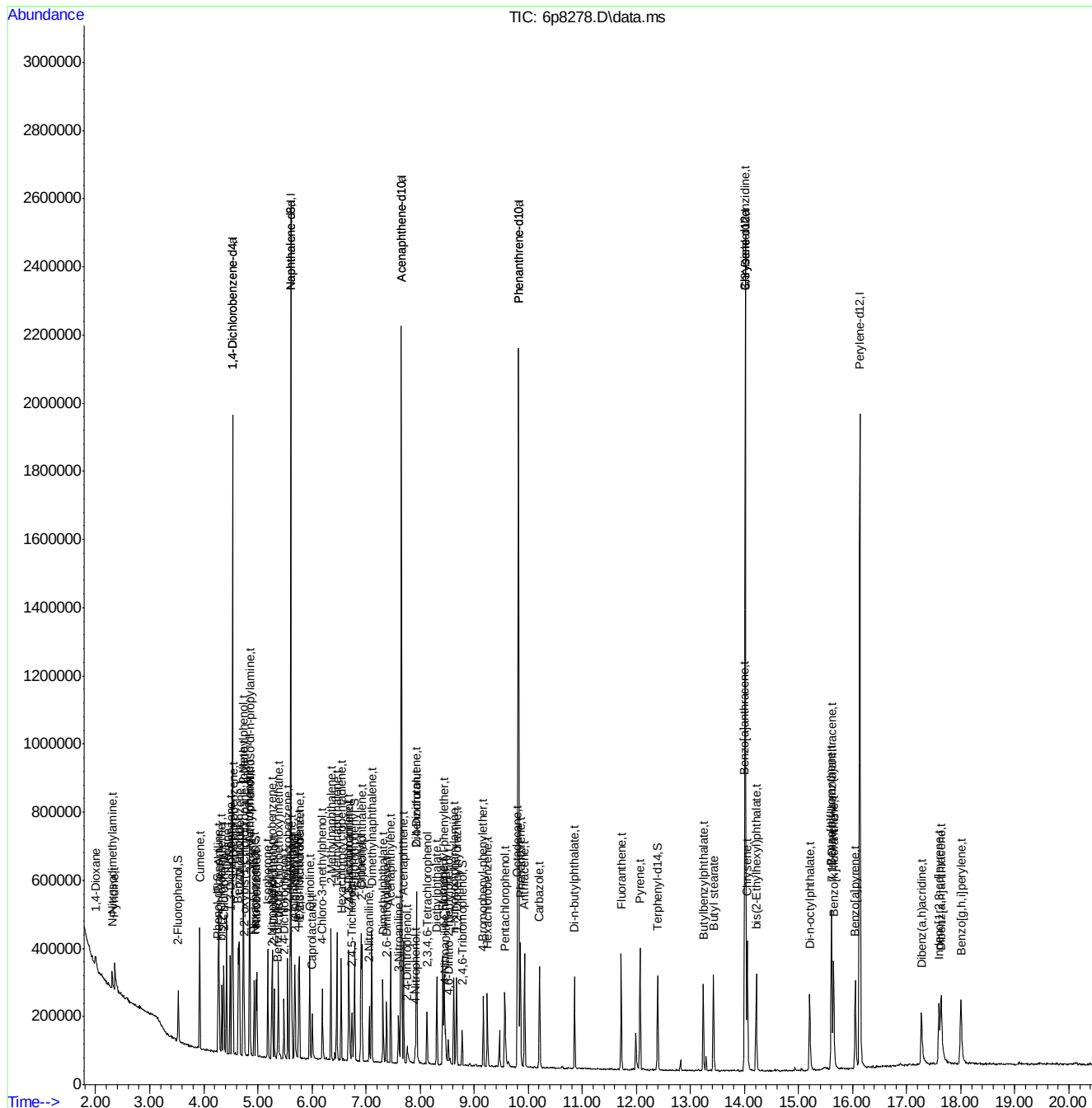
Quant Time: Jun 26 18:59:22 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Thu Jun 26 18:57:15 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78) Anthracene	9.933	178	159028	5.70	ppb	98
79) Carbazole	10.206	167	154091	5.60	ppb	98
80) Di-n-butylphthalate	10.858	149	162109	5.30	ppb	98
81) Fluoranthene	11.719	202	170426	5.48	ppb	100
82) Octadecane	9.799	57	77711	5.71	ppb	99
84) Pyrene	12.067	202	185677	5.40	ppb	98
85) Butyl stearate	13.426	56	50964	4.40	ppb	96
87) Butylbenzylphthalate	13.238	149	70781	4.85	ppb	97
88) Benzo[a]anthracene	13.998	228	159117	5.29	ppb	98
89) 3,3'-Dichlorobenzidine	14.014	252	58575	5.35	ppb	97
90) Chrysene	14.051	228	160622	5.34	ppb	99
91) bis(2-Ethylhexyl)phtha...	14.217	149	99731	4.96	ppb	97
93) Di-n-octylphthalate	15.201	149	162553	5.07	ppb	97
94) Benzo[b]fluoranthene	15.608	252	171205	5.80	ppb	98
95) Benzo[k]fluoranthene	15.645	252	176822	5.87	ppb	98
96) Benzo[a]pyrene	16.052	252	153033	5.55	ppb	99
97) Indeno[1,2,3-cd]pyrene	17.598	276	126318m	4.69	ppb	
98) Dibenz(a,h)acridine	17.271	279	130890	5.27	ppb	98
99) Dibenz[a,h]anthracene	17.635	278	144746	5.08	ppb	96
100) 7,12-Dimethylbenz(a)an...	15.613	256	47046	3.98	ppb	95
101) Benzo[g,h,i]perylene	18.004	276	158808	5.52	ppb	97

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

Data Path : C:\msdchem\1\DATA\6p357\
Data File : 6p8278.D
Acq On : 26 Jun 2014 5:29 pm
Operator : samtap
Sample : ic357-5
Misc : op75816,6p357
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 26 18:59:22 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Thu Jun 26 18:57:15 2014
Response via : Initial Calibration



9.6.34

Manual Integration Approval Summary

Sample Number:

E6P357-IC357

Method:

SW846 8270D

Lab FileID:

6P8278.D

Analyst approved:

07/01/14 10:59 Andrew Lee Smith

Injection Time:

06/26/14 17:29

Supervisor approved:

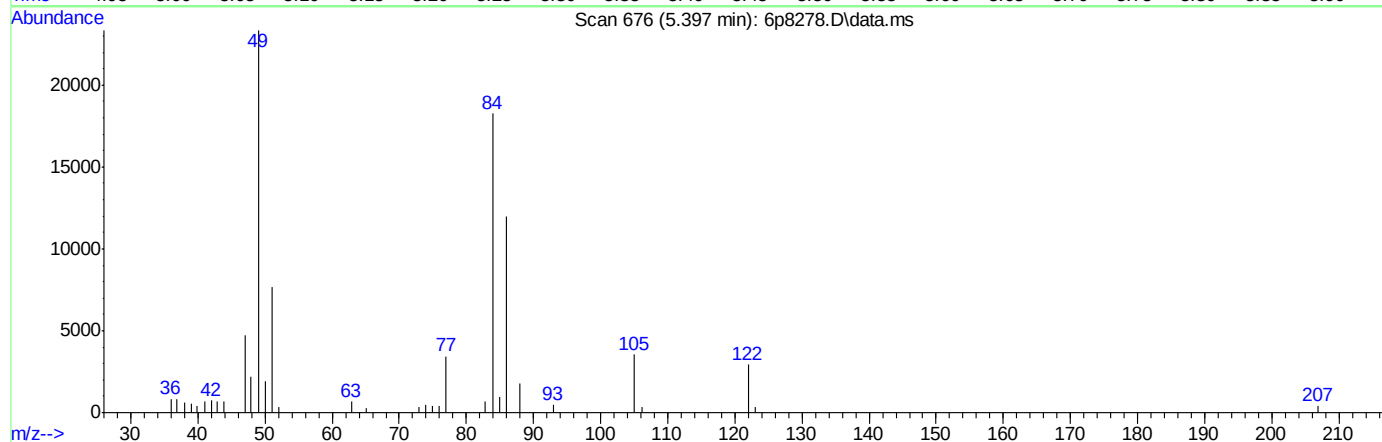
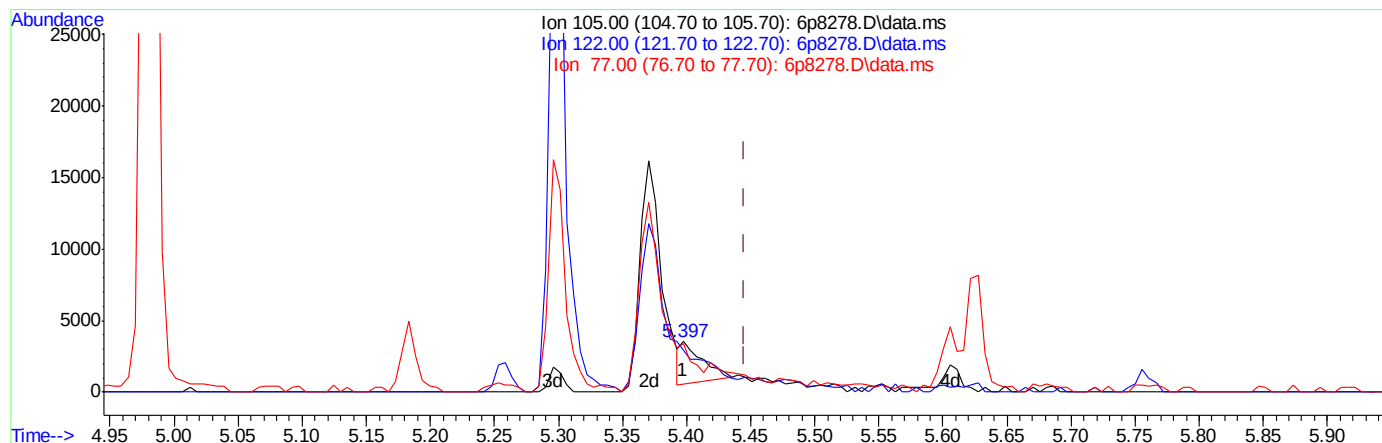
07/02/14 15:14 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic Acid	65-85-0		5.37	Poor instrument integration
4-Nitrophenol	100-02-7		7.91	Poor instrument integration
Indeno(1,2,3-cd)pyrene	193-39-5		17.60	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\6p357\
Data File : 6p8278.D
Acq On : 26 Jun 2014 5:29 pm
Operator : samtap
Sample : ic357-5
Misc : op75816,e6p357
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 26 18:57:27 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Thu Jun 26 18:57:15 2014
Response via : Initial Calibration



TIC: 6p8278.D\data.ms

(31) Benzoic Acid

5.397min (-0.048) 0.50ppb

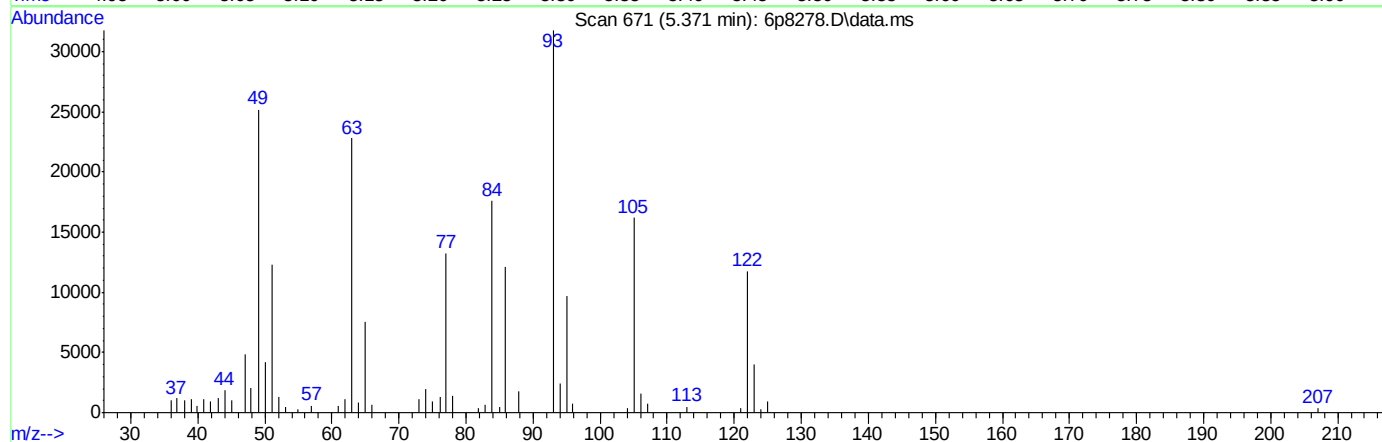
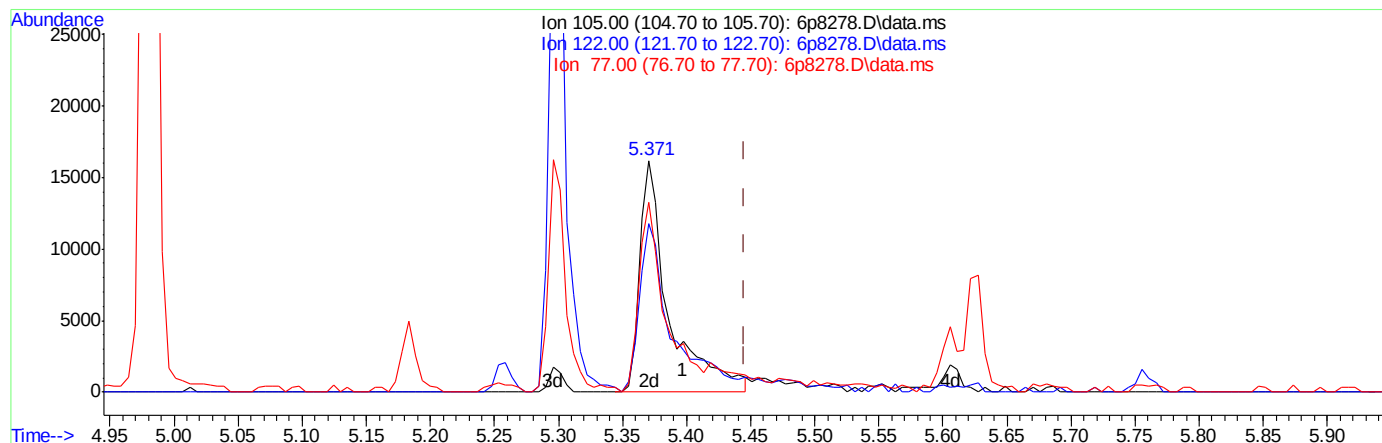
response 3575

Ion	Exp%	Act%
105.00	100	100
122.00	71.30	0.00#
77.00	82.00	62.01
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\6p357\
Data File : 6p8278.D
Acq On : 26 Jun 2014 5:29 pm
Operator : samtap
Sample : ic357-5
Misc : op75816,e6p357
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 26 18:57:27 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Thu Jun 26 18:57:15 2014
Response via : Initial Calibration



(31) Benzoic Acid

5.371min (-0.075) 3.58ppb m

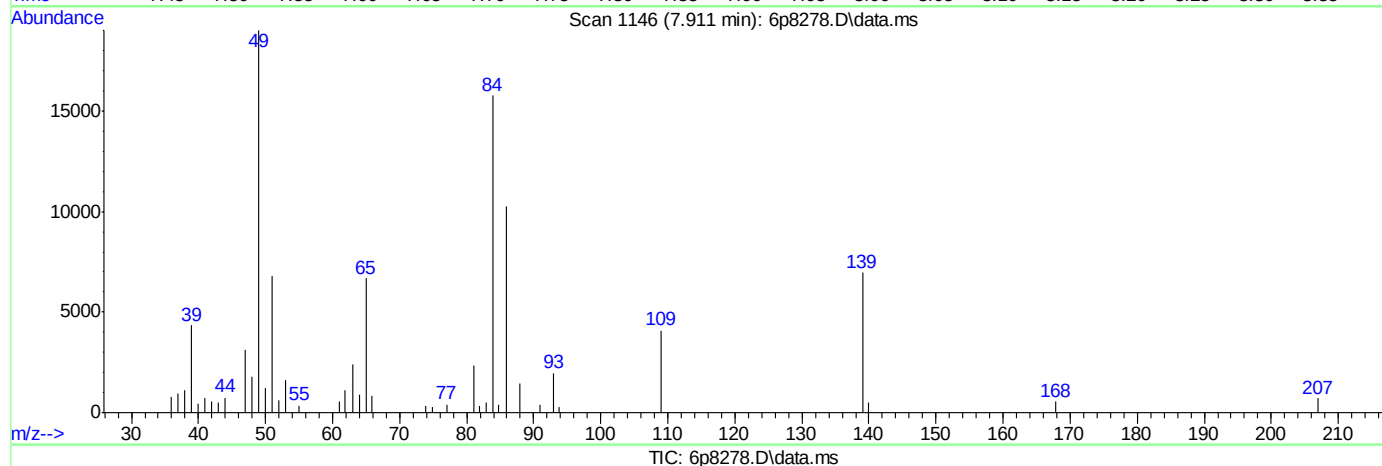
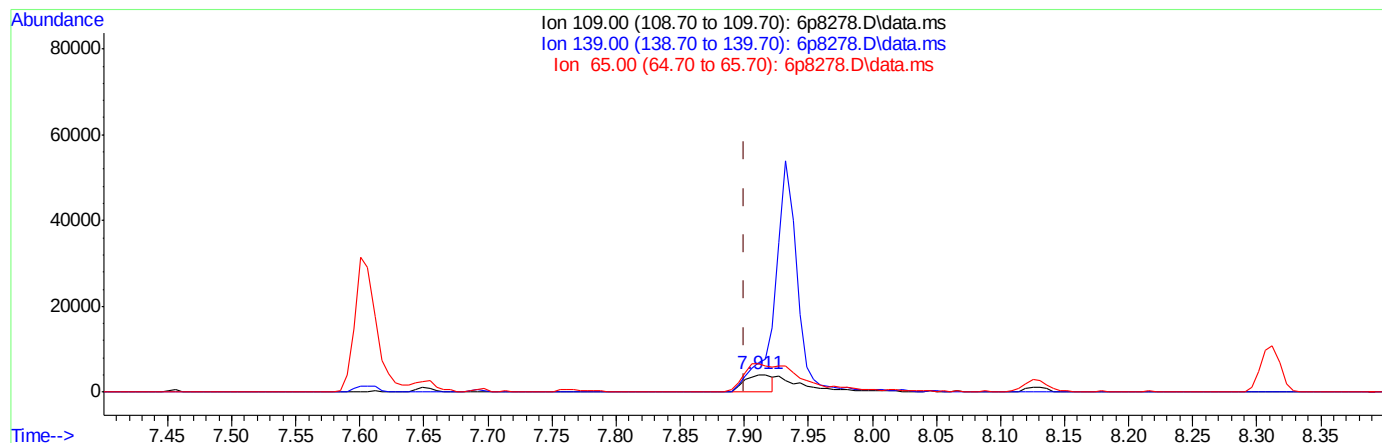
response 25640

Ion	Exp%	Act%
105.00	100	100
122.00	71.30	0.00#
77.00	82.00	8.65#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p357\
Data File : 6p8278.D
Acq On : 26 Jun 2014 5:29 pm
Operator : samtap
Sample : ic357-5
Misc : op75816,e6p357
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 26 18:57:27 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Thu Jun 26 18:57:15 2014
Response via : Initial Calibration



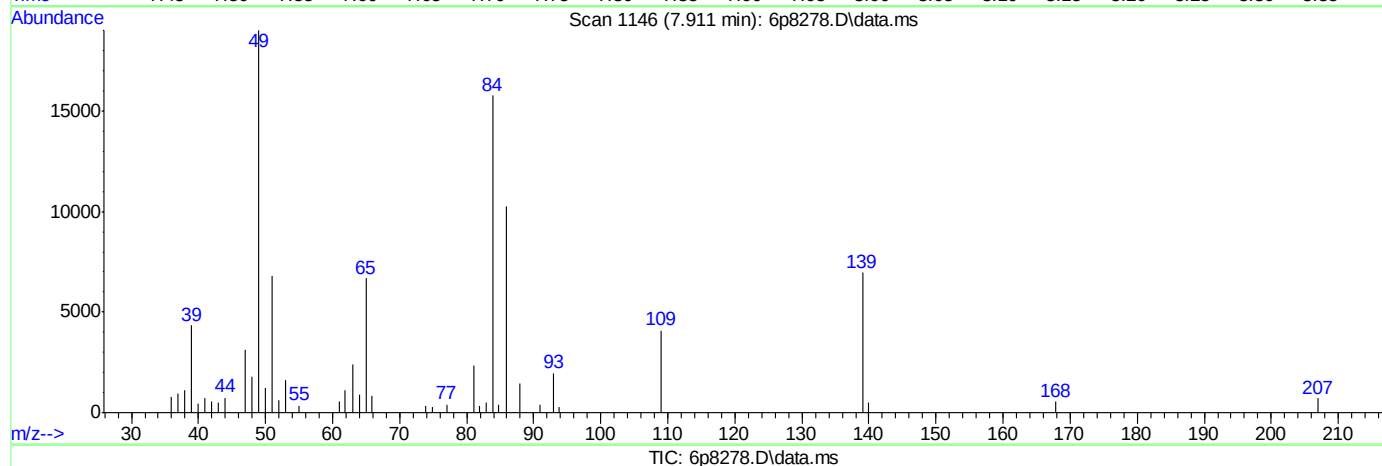
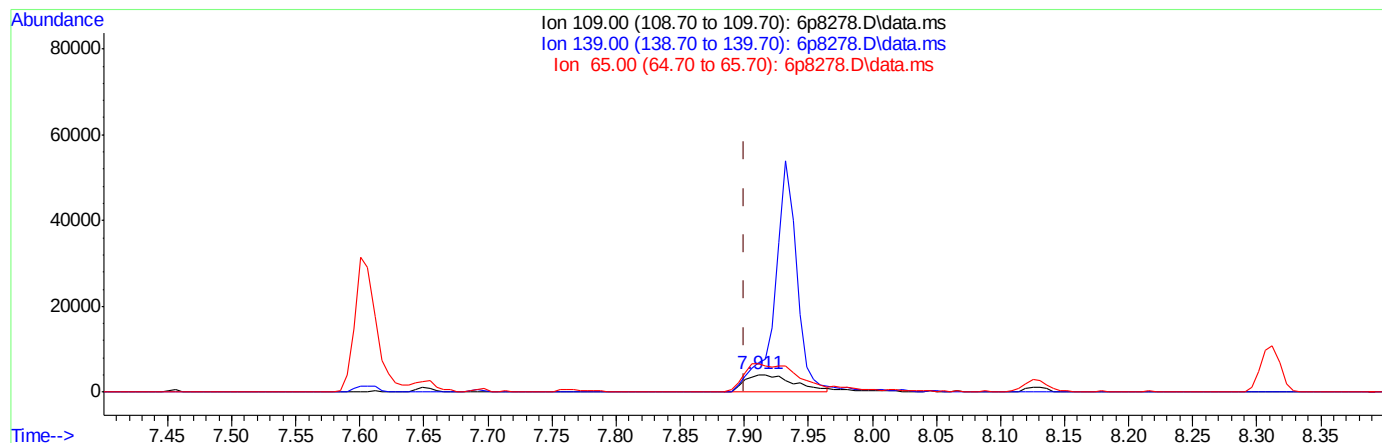
(61) 4-Nitrophenol (t)
7.911min (+0.011) 2.57ppb
response 6130

Ion	Exp%	Act%
109.00	100	100
139.00	142.60	0.00#
65.00	156.90	146.55
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\6p357\
Data File : 6p8278.D
Acq On : 26 Jun 2014 5:29 pm
Operator : samtap
Sample : ic357-5
Misc : op75816,e6p357
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 26 18:57:27 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Thu Jun 26 18:57:15 2014
Response via : Initial Calibration



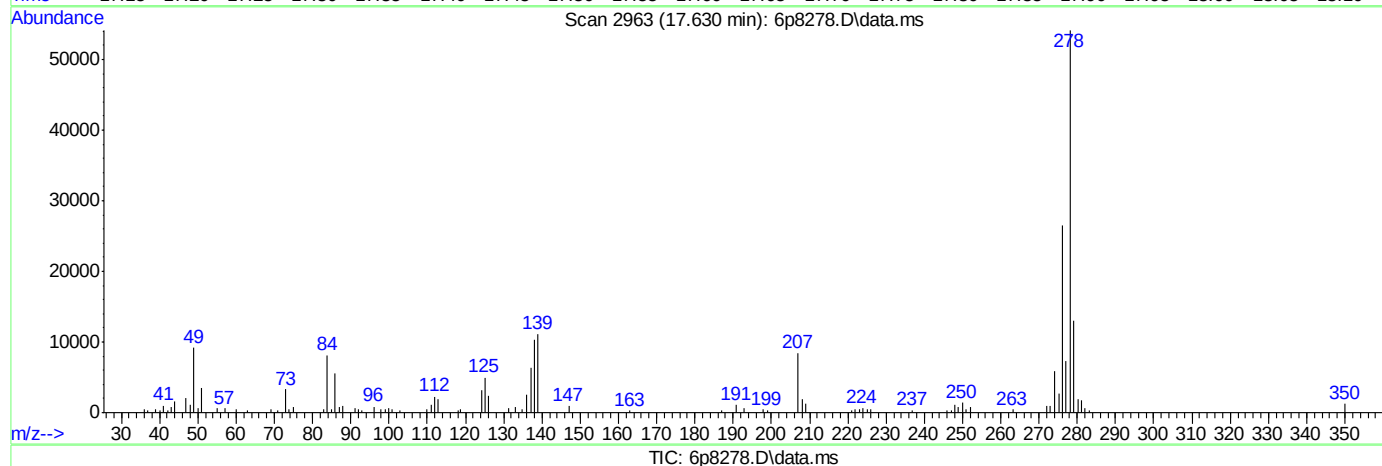
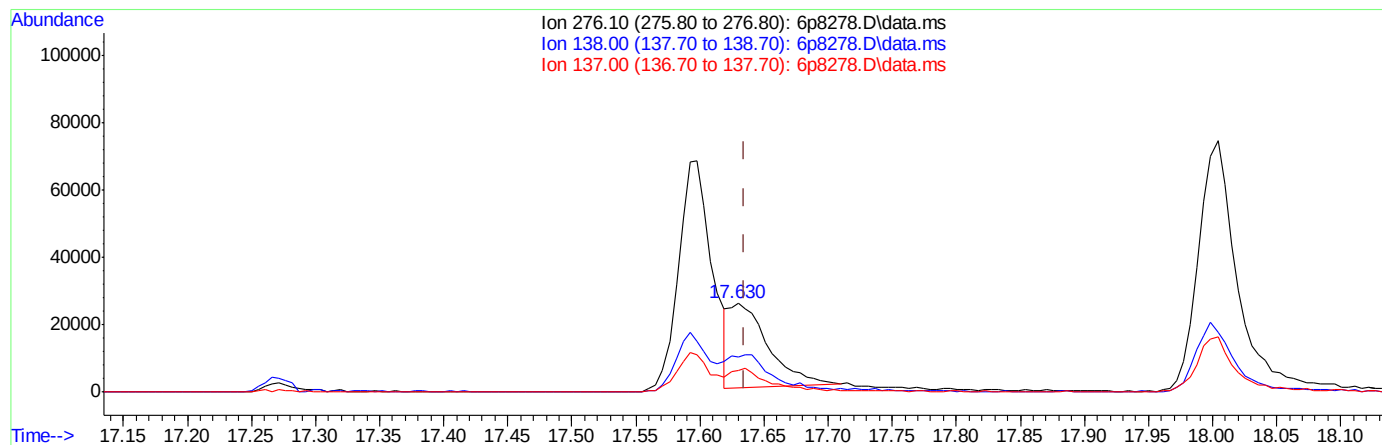
(61) 4-Nitrophenol (t)
7.911min (+0.011) 4.58ppb m
response 10941

Ion	Exp%	Act%
109.00	100	100
139.00	142.60	170.09
65.00	156.90	163.29
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\6p357\
Data File : 6p8278.D
Acq On : 26 Jun 2014 5:29 pm
Operator : samtap
Sample : ic357-5
Misc : op75816,e6p357
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 26 18:57:27 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Thu Jun 26 18:57:15 2014
Response via : Initial Calibration



(97) Indeno[1,2,3-cd]pyrene (t)

17.630min (-0.005) 1.96ppb

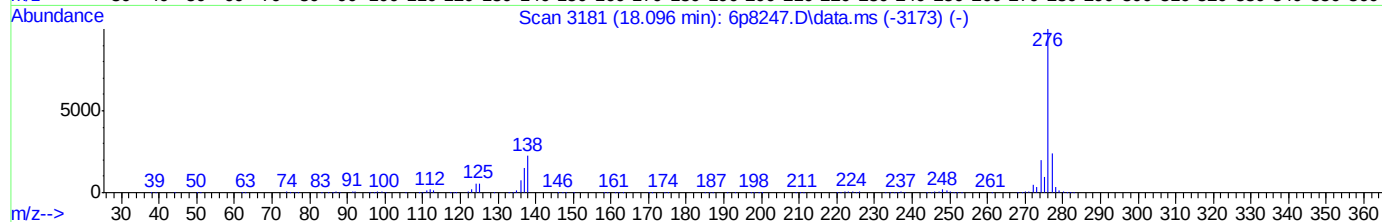
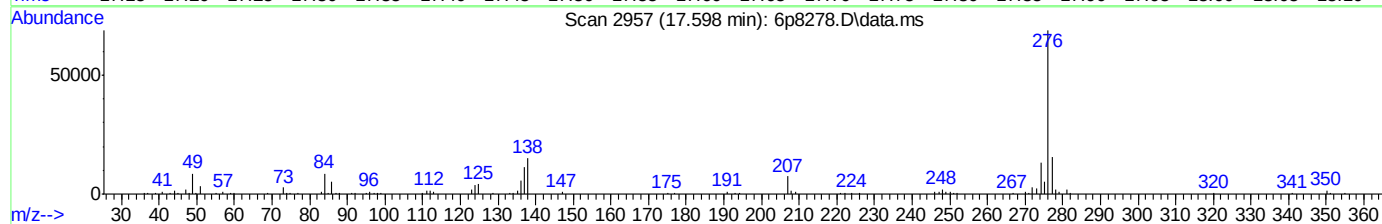
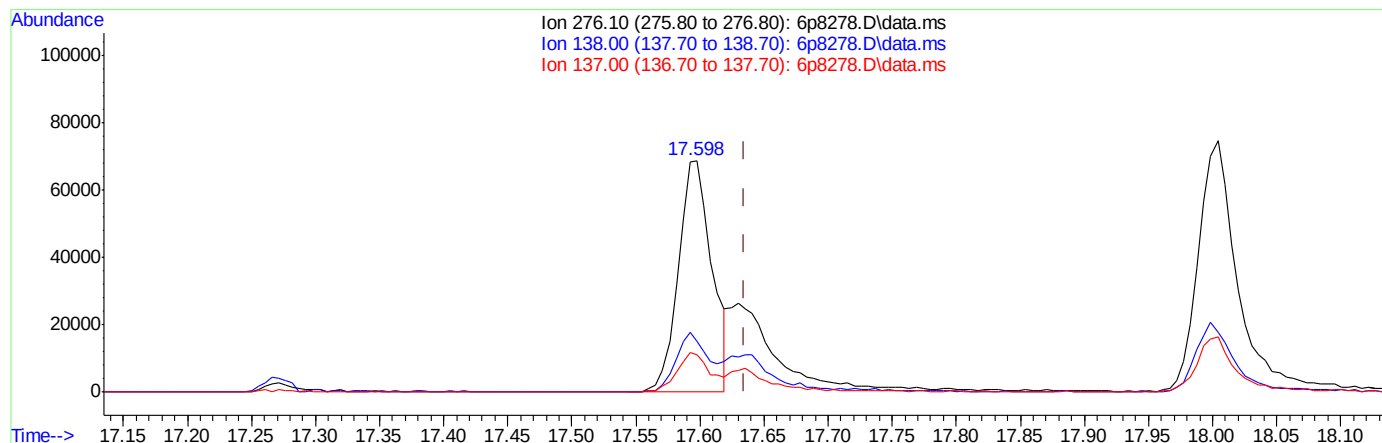
response 52893

Ion	Exp%	Act%
276.10	100	100
138.00	19.80	39.89
137.00	14.00	31.07
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\6p357\
Data File : 6p8278.D
Acq On : 26 Jun 2014 5:29 pm
Operator : samtap
Sample : ic357-5
Misc : op75816,e6p357
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 26 18:59:22 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Thu Jun 26 18:57:15 2014
Response via : Initial Calibration



TIC: 6p8278.D\data.ms

(97) Indeno[1,2,3-cd]pyrene (t)

17.598min (-0.037) 4.69ppb m

response 126318

Ion	Exp%	Act%
276.10	100	100
138.00	19.80	22.08
137.00	14.00	16.37
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p357\
 Data File : 6p8279.D
 Acq On : 26 Jun 2014 5:58 pm
 Operator : samtap
 Sample : ic357-2
 Misc : op75816,e6p357
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 26 19:00:53 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Thu Jun 26 18:59:37 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.531	152	293994	40.00	ppb	0.00
24) Naphthalene-d8	5.606	136	1215208	40.00	ppb	0.00
47) Acenaphthene-d10	7.654	164	744144	40.00	ppb	0.00
69) Phenanthrene-d10	9.820	188	1246250	40.00	ppb	-0.01
83) Chrysene-d12	14.019	240	1355162	40.00	ppb	-0.01
92) Perylene-d12	16.137	264	1268361	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	4.531	152	293994	40.00	ppb	0.00
104) Phenanthrene-d10a	9.820	188	1246250	40.00	ppb	-0.01
107) Chrysene-d12a	14.019	240	1355162	40.00	ppb	-0.01
110) Acenaphthene-d10a	7.654	164	744144	40.00	ppb	0.00
112) Naphthalene-d8a	5.606	136	1215208	40.00	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol	3.525	112	22166	1.94	ppb	0.00
Spiked Amount	50.000		Recovery	=	3.88%	
8) Phenol-d5	4.263	99	28256	1.98	ppb	-0.01
Spiked Amount	50.000		Recovery	=	3.96%	
25) Nitrobenzene-d5	4.964	82	28744	2.11	ppb	-0.01
Spiked Amount	50.000		Recovery	=	4.22%	
51) 2-Fluorobiphenyl	6.788	172	54541	2.25	ppb	-0.01
Spiked Amount	50.000		Recovery	=	4.50%	
73) 2,4,6-Tribromophenol	8.783	330	6416	1.90	ppb	0.00
Spiked Amount	50.000		Recovery	=	3.80%	
86) Terphenyl-d14	12.393	244	60788	1.97	ppb	-0.01
Spiked Amount	50.000		Recovery	=	3.94%	
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	1.990	88	8510	1.75	ppb	87
3) Pyridine	2.354	79	27373	2.20	ppb	95
4) N-Nitrosodimethylamine	2.306	74	15729	1.99	ppb	99
6) Indene	4.729	116	45205	2.33	ppb	95
7) Cumene	3.926	105	61799	2.14	ppb	98
9) Phenol	4.274	94	36470	2.16	ppb	47
10) Aniline	4.279	93	43791	2.39	ppb	77
11) bis(2-Chloroethyl)ether	4.333	93	25627	2.12	ppb	98
12) 2-Chlorophenol	4.376	128	23854	2.10	ppb	96
13) Decane	4.418	43	28247	2.23	ppb	97
14) 1,3-Dichlorobenzene	4.488	146	28094	2.27	ppb	98
15) 1,4-Dichlorobenzene	4.541	146	27609	2.21	ppb	98
16) Benzyl alcohol	4.638	108	16376	2.05	ppb	93
17) 1,2-Dichlorobenzene	4.659	146	26597	2.25	ppb	99
18) Acetophenone	4.841	105	38868	2.34	ppb	95
19) 2-Methylphenol	4.734	108	21597	2.12	ppb	99
20) 2,2'-oxybis(1-Chloropr...	4.745	121	8563	2.15	ppb	99
21) 3&4-Methylphenol	4.852	108	23745	2.23	ppb	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p357\
 Data File : 6p8279.D
 Acq On : 26 Jun 2014 5:58 pm
 Operator : samtap
 Sample : ic357-2
 Misc : op75816,e6p357
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 26 19:00:53 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Thu Jun 26 18:59:37 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
22) n-Nitroso-di-n-propyla...	4.846	70	20914	2.43	ppb	98
23) Hexachloroethane	4.932	201	9062	2.08	ppb	88
26) Nitrobenzene	4.980	77	31576	2.11	ppb	97
27) Quinoline	5.959	129	49131	2.10	ppb	99
28) Isophorone	5.183	82	52422	2.06	ppb	98
29) 2-Nitrophenol	5.258	139	12276	1.95	ppb	96
30) 2,4-Dimethylphenol	5.301	107	19950	1.90	ppb	99
32) bis(2-Chloroethoxy)met...	5.376	93	30697	2.15	ppb	97
33) 2,4-Dichlorophenol	5.483	162	18718	1.99	ppb	89
34) 2,6-Dichlorophenol	5.691	162	18742	2.02	ppb	98
35) 1,3,5-Trichlorobenzene	5.269	180	24864	2.28	ppb	94
36) 1,2,4-Trichlorobenzene	5.552	180	23391	2.24	ppb	99
37) 1,2,3-Trichlorobenzene	5.772	180	23431	2.26	ppb	98
38) Naphthalene	5.627	128	74980	2.21	ppb	98
39) 4-Chloroaniline	5.681	127	30192	2.16	ppb	98
40) 2,3-Dichloroaniline	6.681	161	25997	2.14	ppb	99
41) Caprolactam	6.002	55	12014	2.04	ppb	88
42) Hexachlorobutadiene	5.756	225	12114	2.17	ppb	95
43) 4-Chloro-3-methylphenol	6.194	107	22003	1.99	ppb	98
44) 2-Methylnaphthalene	6.349	141	41078	2.10	ppb	99
45) 1-Methylnaphthalene	6.462	141	43847	2.21	ppb	96
46) Dimethylnaphthalene	7.103	156	46554	2.22	ppb	97
48) Hexachlorocyclopentadiene	6.542	237	18612	3.36	ppb	99
49) 2,4,6-Trichlorophenol	6.692	196	14758	2.09	ppb	99
50) 2,4,5-Trichlorophenol	6.750	196	15522	2.02	ppb	94
52) 2-Chloronaphthalene	6.922	162	50140	2.20	ppb	97
53) Biphenyl	6.905	154	62766	2.24	ppb	99
54) 2-Nitroaniline	7.061	65	14942	1.88	ppb	96
55) Dimethylphthalate	7.312	163	52906	2.14	ppb	99
56) Acenaphthylene	7.456	152	73697	2.13	ppb	98
57) 2,6-Dinitrotoluene	7.382	165	10720	1.86	ppb	95
58) 3-Nitroaniline	7.606	138	11815	1.81	ppb	94
59) Acenaphthene	7.692	153	48043	2.24	ppb	99
62) Dibenzofuran	7.932	168	70656	2.26	ppb	97
63) 2,4-Dinitrotoluene	7.932	165	14203	1.86	ppb	66
64) 2,3,4,6-Tetrachlorophenol	8.130	232	11950	1.98	ppb	92
65) Diethylphthalate	8.312	149	51156	1.70	ppb	99
66) Fluorene	8.419	166	55998	2.17	ppb	98
67) 4-Chlorophenyl-phenyle...	8.446	204	26833	2.21	ppb	97
68) 4-Nitroaniline	8.473	138	11866	1.80	ppb	85
70) 4,6-Dinitro-2-methylph...	8.521	198	5607	1.13	ppb	86
71) n-Nitrosodiphenylamine	8.622	169	37169	2.06	ppb	95
72) 1,2-Diphenylhydrazine	8.676	77	65496	2.07	ppb	100
74) 4-Bromophenyl-phenylether	9.168	248	14615	2.12	ppb	91
75) Hexachlorobenzene	9.243	284	17939	2.21	ppb	98
76) Pentachlorophenol	9.574	266	15785	3.33	ppb	94
77) Phenanthrene	9.853	178	84236	2.21	ppb	99
78) Anthracene	9.933	178	82446	2.17	ppb	97
79) Carbazole	10.211	167	77701	2.08	ppb	98
80) Di-n-butylphthalate	10.858	149	80755	1.96	ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p357\
 Data File : 6p8279.D
 Acq On : 26 Jun 2014 5:58 pm
 Operator : samtap
 Sample : ic357-2
 Misc : op75816,e6p357
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 26 19:00:53 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Thu Jun 26 18:59:37 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
81) Fluoranthene	11.719	202	89544	2.12	ppb	99
82) Octadecane	9.799	57	37941	2.04	ppb	96
84) Pyrene	12.067	202	96137	2.03	ppb	99
85) Butyl stearate	13.425	56	23462	1.51	ppb	98
87) Butylbenzylphthalate	13.238	149	35153	1.77	ppb	97
88) Benzo[a]anthracene	14.003	228	84854	2.05	ppb	98
89) 3,3'-Dichlorobenzidine	14.014	252	26659	1.77	ppb	87
90) Chrysene	14.051	228	83286	2.01	ppb	98
91) bis(2-Ethylhexyl)phtha...	14.217	149	46475	1.70	ppb	93
93) Di-n-octylphthalate	15.207	149	73571	1.66	ppb	99
94) Benzo[b]fluoranthene	15.608	252	75558m	1.81	ppb	
95) Benzo[k]fluoranthene	15.645	252	87954	2.06	ppb	98
96) Benzo[a]pyrene	16.052	252	73595	1.90	ppb	99
97) Indeno[1,2,3-cd]pyrene	17.592	276	57711m	1.56	ppb	
98) Dibenz(a,h)acridine	17.271	279	58688	1.70	ppb	98
99) Dibenz[a,h]anthracene	17.640	278	63501	1.61	ppb	98
100) 7,12-Dimethylbenz(a)an...	15.613	256	18231	1.15	ppb	97
101) Benzo[g,h,i]perylene	18.004	276	80611	2.00	ppb	98

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

Data Path : C:\msdchem\1\DATA\e6p357\
Data File : 6p8279.D
Acq On : 26 Jun 2014 5:58 pm
Operator : samtap
Sample : ic357-2
Misc : op75816,e6p357
ALS Vial : 8 Sample Multiplier: 1

[illegible]

9.6.35

Manual Integration Approval Summary

Sample Number: E6P357-IC357

Method: SW846 8270D

Lab FileID: 6P8279.D

Analyst approved: 07/01/14 10:59 Andrew Lee Smith

Injection Time: 06/26/14 17:58

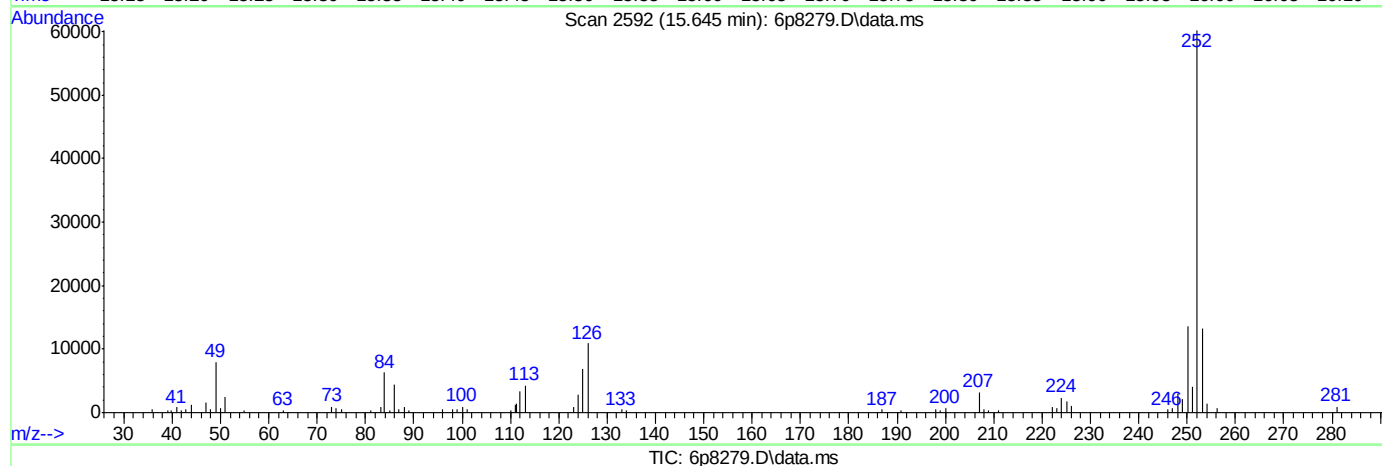
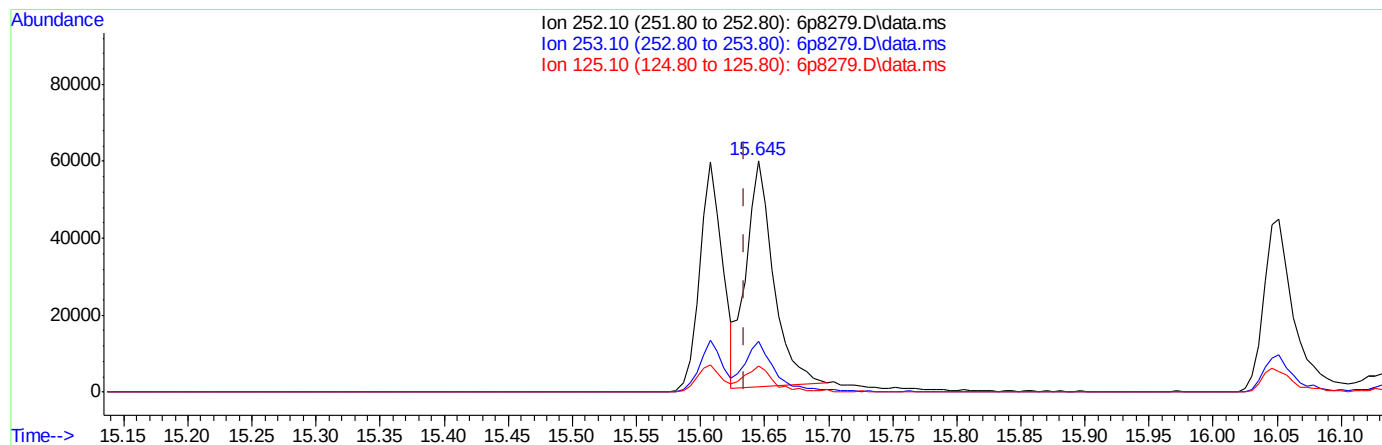
Supervisor approved: 07/02/14 15:14 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzo(b)fluoranthene	205-99-2		15.61	Overlapping peak
Indeno(1,2,3-cd)pyrene	193-39-5		17.59	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\6p357\
Data File : 6p8279.D
Acq On : 26 Jun 2014 5:58 pm
Operator : samtap
Sample : ic357-2
Misc : op75816,e6p357
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 26 18:59:48 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Thu Jun 26 18:59:37 2014
Response via : Initial Calibration



(94) Benzo[b]fluoranthene (t)

15.645min (+0.011) 2.11ppb

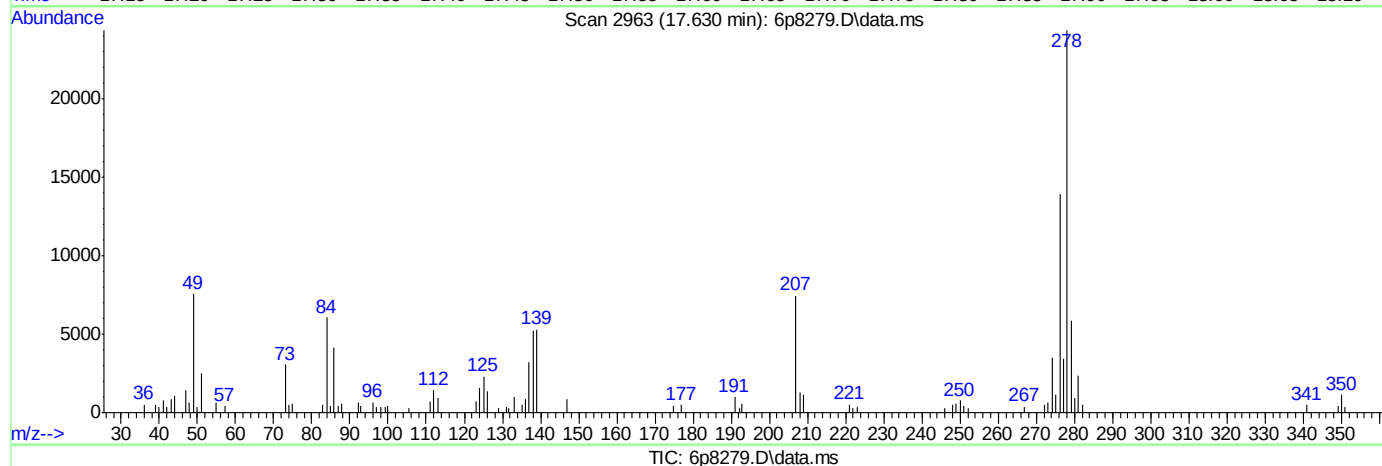
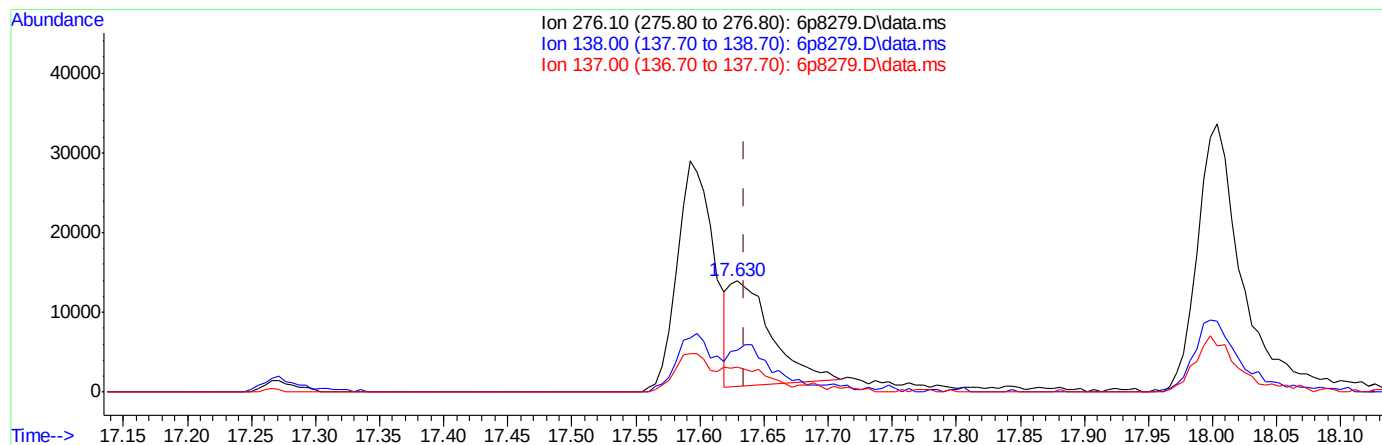
response 87954

Ion	Exp%	Act%
252.10	100	100
253.10	22.30	22.31
125.10	11.30	10.97
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p357\
Data File : 6p8279.D
Acq On : 26 Jun 2014 5:58 pm
Operator : samtap
Sample : ic357-2
Misc : op75816,e6p357
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 26 18:59:48 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Thu Jun 26 18:59:37 2014
Response via : Initial Calibration



(97) Indeno[1,2,3-cd]pyrene (t)

17.630min (-0.005) 0.81ppb

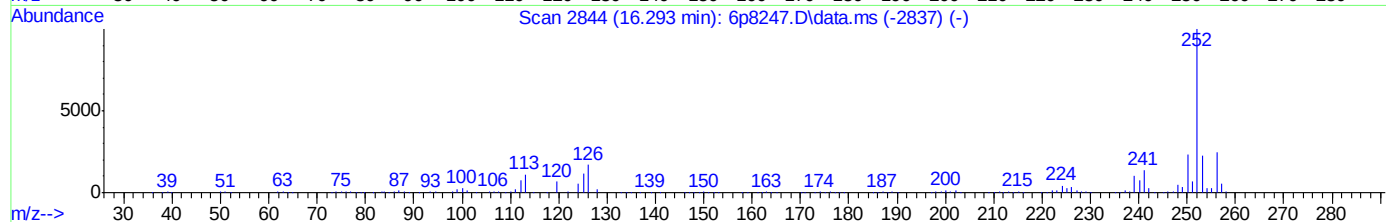
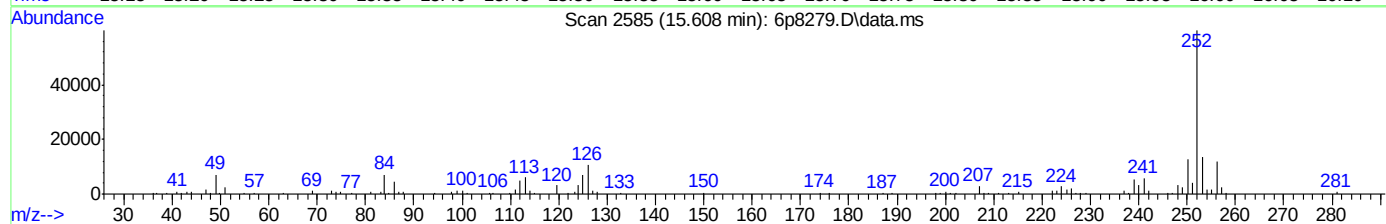
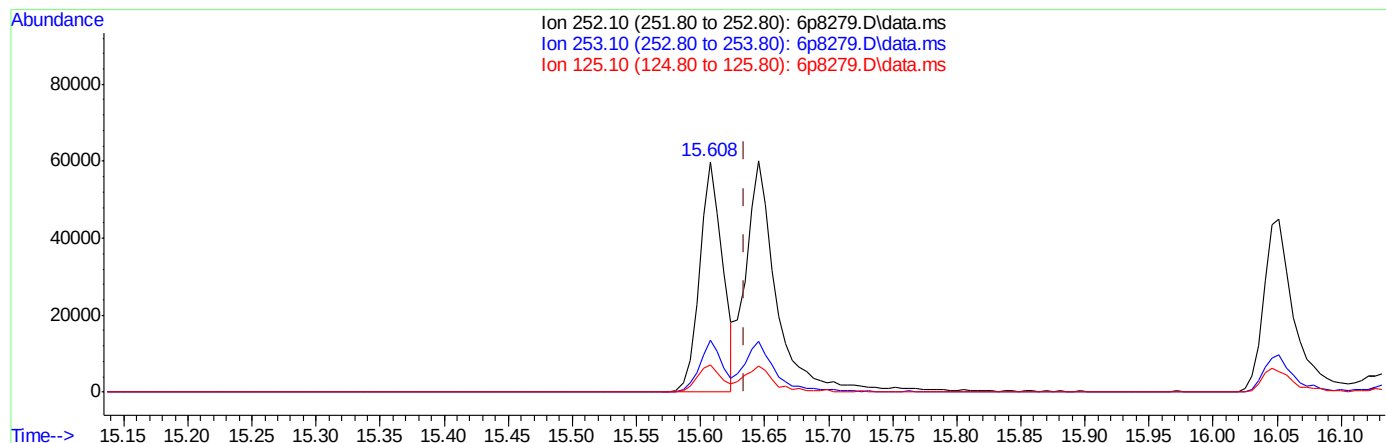
response 29798

Ion	Exp%	Act%
276.10	100	100
138.00	19.80	43.62
137.00	14.00	20.56
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\6p357\
Data File : 6p8279.D
Acq On : 26 Jun 2014 5:58 pm
Operator : samtap
Sample : ic357-2
Misc : op75816,e6p357
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 26 19:00:53 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Thu Jun 26 18:59:37 2014
Response via : Initial Calibration



(94) Benzo[b]fluoranthene (t)

15.608min (-0.027) 1.81ppb m

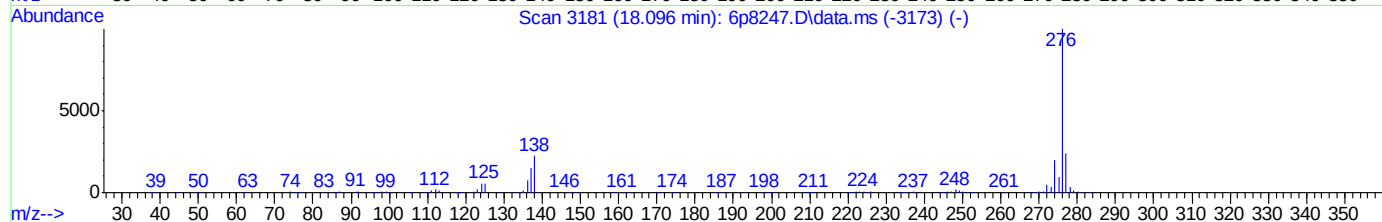
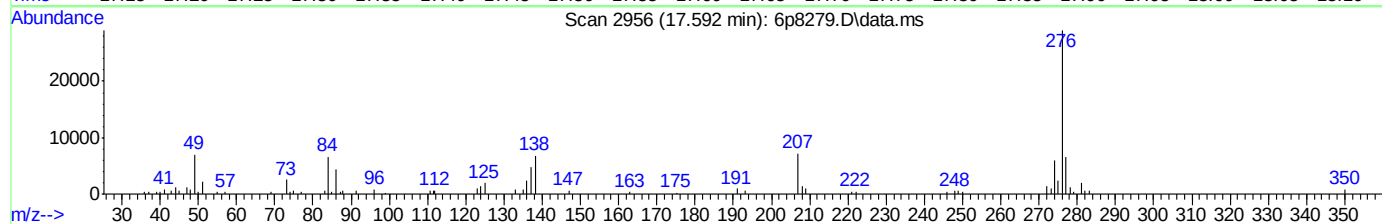
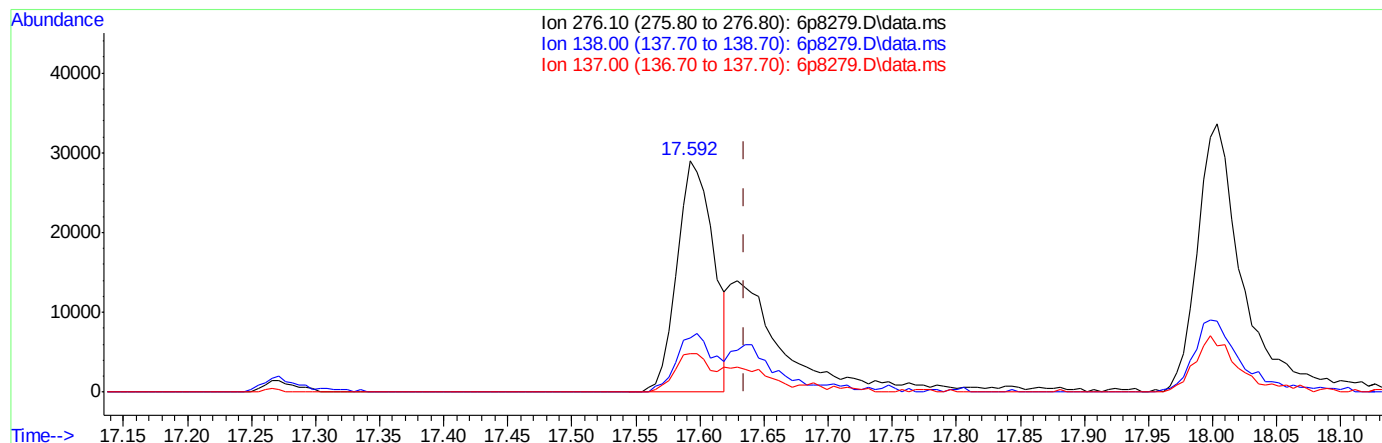
response 75558

Ion	Exp%	Act%
252.10	100	100
253.10	22.30	22.62
125.10	11.30	11.92
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p357\
Data File : 6p8279.D
Acq On : 26 Jun 2014 5:58 pm
Operator : samtap
Sample : ic357-2
Misc : op75816,e6p357
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 26 19:00:53 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Thu Jun 26 18:59:37 2014
Response via : Initial Calibration



TIC: 6p8279.D\data.ms

(97) Indeno[1,2,3-cd]pyrene (t)

17.592min (-0.043) 1.56ppb m

response 57711

Ion	Exp%	Act%
276.10	100	100
138.00	19.80	23.43
137.00	14.00	16.66
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p357\
 Data File : 6p8280.D
 Acq On : 26 Jun 2014 6:25 pm
 Operator : samtap
 Sample : ic357-25
 Misc : op75816,e6p357
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 26 19:02:05 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Thu Jun 26 19:01:04 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.531	152	204837	40.00	ppb	0.00
24) Naphthalene-d8	5.606	136	830866	40.00	ppb	0.00
47) Acenaphthene-d10	7.654	164	519640	40.00	ppb	0.00
69) Phenanthrene-d10	9.821	188	857094	40.00	ppb	-0.01
83) Chrysene-d12	14.019	240	914294	40.00	ppb	-0.01
92) Perylene-d12	16.137	264	925464	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	4.531	152	204837	40.00	ppb	0.00
104) Phenanthrene-d10a	9.821	188	857094	40.00	ppb	-0.01
107) Chrysene-d12a	14.019	240	914294	40.00	ppb	-0.01
110) Acenaphthene-d10a	7.654	164	519640	40.00	ppb	0.00
112) Naphthalene-d8a	5.606	136	830866	40.00	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol	3.525	112	183257	23.15	ppb	0.00
Spiked Amount	50.000		Recovery	=	46.30%	
8) Phenol-d5	4.263	99	231539	23.33	ppb	-0.01
Spiked Amount	50.000		Recovery	=	46.66%	
25) Nitrobenzene-d5	4.964	82	213597	22.78	ppb	-0.01
Spiked Amount	50.000		Recovery	=	45.56%	
51) 2-Fluorobiphenyl	6.788	172	387570	22.50	ppb	-0.01
Spiked Amount	50.000		Recovery	=	45.00%	
73) 2,4,6-Tribromophenol	8.778	330	52456	22.71	ppb	-0.01
Spiked Amount	50.000		Recovery	=	45.42%	
86) Terphenyl-d14	12.393	244	452683	21.81	ppb	-0.01
Spiked Amount	50.000		Recovery	=	43.62%	
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	1.996	88	83034	25.01	ppb	99
3) Pyridine	2.333	79	204576	23.28	ppb	98
4) N-Nitrosodimethylamine	2.295	74	127538	23.22	ppb	96
6) Indene	4.729	116	315823	22.86	ppb	98
7) Cumene	3.926	105	464902	22.94	ppb	99
9) Phenol	4.274	94	276149	23.24	ppb	49
10) Aniline	4.279	93	321326	24.60	ppb	79
11) bis(2-Chloroethyl)ether	4.333	93	193857	22.89	ppb	99
12) 2-Chlorophenol	4.376	128	184212	23.11	ppb	98
13) Decane	4.419	43	210889	23.53	ppb	97
14) 1,3-Dichlorobenzene	4.488	146	199045	22.70	ppb	98
15) 1,4-Dichlorobenzene	4.542	146	201632	22.85	ppb	98
16) Benzyl alcohol	4.638	108	133761	23.97	ppb	100
17) 1,2-Dichlorobenzene	4.659	146	189585	22.71	ppb	100
18) Acetophenone	4.841	105	272294	23.06	ppb	93
19) 2-Methylphenol	4.734	108	175110	24.45	ppb	99
20) 2,2'-oxybis(1-Chloropr...	4.745	121	62815	22.39	ppb	99
21) 3&4-Methylphenol	4.852	108	189042	25.08	ppb	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p357\
 Data File : 6p8280.D
 Acq On : 26 Jun 2014 6:25 pm
 Operator : samtap
 Sample : ic357-25
 Misc : op75816,e6p357
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 26 19:02:05 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Thu Jun 26 19:01:04 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
22) n-Nitroso-di-n-propyla...	4.846	70	142771	23.21	ppb	93
23) Hexachloroethane	4.932	201	70443	23.10	ppb	87
26) Nitrobenzene	4.980	77	234505	22.77	ppb	98
27) Quinoline	5.959	129	362841	22.52	ppb	99
28) Isophorone	5.183	82	396560	22.72	ppb	99
29) 2-Nitrophenol	5.258	139	98841	22.99	ppb	98
30) 2,4-Dimethylphenol	5.296	107	187312	26.28	ppb	99
31) Benzoic Acid	5.376	105	128100m	20.94	ppb	
32) bis(2-Chloroethoxy)met...	5.376	93	230569	23.38	ppb	99
33) 2,4-Dichlorophenol	5.478	162	148223	23.03	ppb	96
34) 2,6-Dichlorophenol	5.691	162	147133	23.17	ppb	99
35) 1,3,5-Trichlorobenzene	5.269	180	176760	23.29	ppb	97
36) 1,2,4-Trichlorobenzene	5.552	180	162278	22.38	ppb	97
37) 1,2,3-Trichlorobenzene	5.772	180	162256	22.50	ppb	96
38) Naphthalene	5.627	128	540479	23.03	ppb	98
39) 4-Chloroaniline	5.681	127	232169	24.06	ppb	98
40) 2,3-Dichloroaniline	6.681	161	191339	22.83	ppb	99
41) Caprolactam	6.028	55	91769	22.77	ppb	98
42) Hexachlorobutadiene	5.761	225	89139	23.09	ppb	97
43) 4-Chloro-3-methylphenol	6.194	107	167299	22.14	ppb	94
44) 2-Methylnaphthalene	6.349	141	304684	22.65	ppb	98
45) 1-Methylnaphthalene	6.462	141	309602	22.55	ppb	100
46) Dimethylnaphthalene	7.104	156	332638	22.85	ppb	99
48) Hexachlorocyclopentadiene	6.542	237	180877	46.74	ppb	100
49) 2,4,6-Trichlorophenol	6.686	196	112146	22.61	ppb	98
50) 2,4,5-Trichlorophenol	6.734	196	121904	22.67	ppb	98
52) 2-Chloronaphthalene	6.927	162	357511	22.16	ppb	98
53) Biphenyl	6.906	154	442546	22.32	ppb	98
54) 2-Nitroaniline	7.061	65	123130	22.30	ppb	96
55) Dimethylphthalate	7.317	163	386752	22.18	ppb	99
56) Acenaphthylene	7.457	152	549123	22.51	ppb	99
57) 2,6-Dinitrotoluene	7.382	165	91623	23.01	ppb	96
58) 3-Nitroaniline	7.601	138	103127	22.95	ppb	99
59) Acenaphthene	7.697	153	331926	21.79	ppb	98
60) 2,4-Dinitrophenol	7.751	184	88194	38.33	ppb	97
61) 4-Nitrophenol	7.890	109	49678	22.71	ppb	95
62) Dibenzofuran	7.938	168	492130	22.20	ppb	99
63) 2,4-Dinitrotoluene	7.933	165	122966	23.31	ppb	90
64) 2,3,4,6-Tetrachlorophenol	8.125	232	95864	22.73	ppb	95
65) Diethylphthalate	8.312	149	374209	18.13	ppb	100
66) Fluorene	8.425	166	411077	22.54	ppb	98
67) 4-Chlorophenyl-phenyle...	8.446	204	195053	22.68	ppb	99
68) 4-Nitroaniline	8.467	138	105372	23.23	ppb	97
70) 4,6-Dinitro-2-methylph...	8.521	198	68708	20.05	ppb	98
71) n-Nitrosodiphenylamine	8.623	169	277256	22.28	ppb	98
72) 1,2-Diphenylhydrazine	8.676	77	486386	22.26	ppb	99
74) 4-Bromophenyl-phenylether	9.168	248	104305	21.79	ppb	93
75) Hexachlorobenzene	9.248	284	123672	21.88	ppb	98
76) Pentachlorophenol	9.564	266	149788	45.89	ppb	97
77) Phenanthrene	9.853	178	575748	21.70	ppb	99

9.6.36

9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p357\
 Data File : 6p8280.D
 Acq On : 26 Jun 2014 6:25 pm
 Operator : samtap
 Sample : ic357-25
 Misc : op75816,e6p357
 ALS Vial : 9 Sample Multiplier: 1

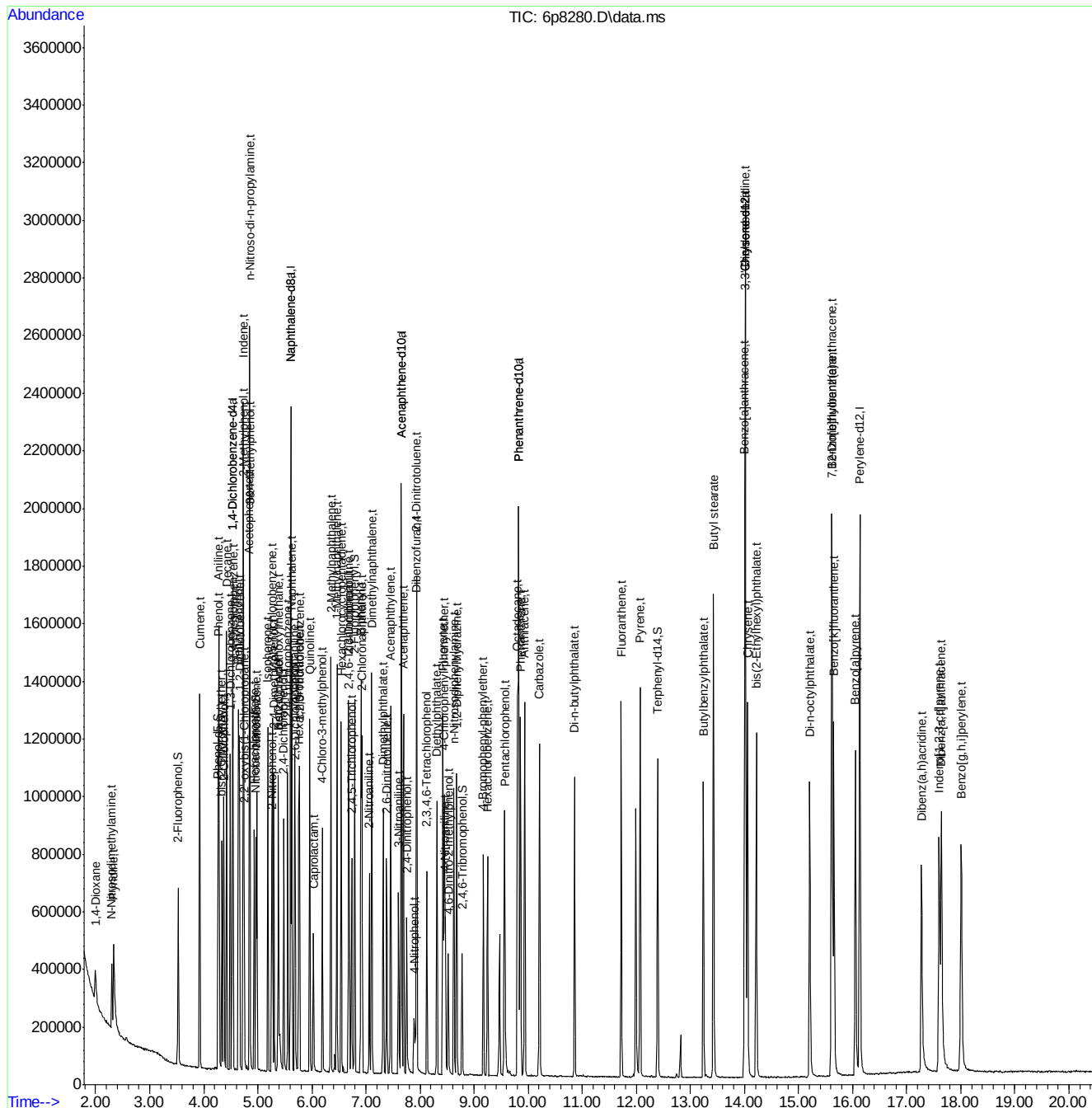
Quant Time: Jun 26 19:02:05 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Thu Jun 26 19:01:04 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78) Anthracene	9.933	178	599319	22.66	ppb	99
79) Carbazole	10.206	167	576348	22.28	ppb	99
80) Di-n-butylphthalate	10.858	149	648647	22.90	ppb	99
81) Fluoranthene	11.719	202	646117	22.11	ppb	98
82) Octadecane	9.799	57	287797	22.48	ppb	98
84) Pyrene	12.067	202	698206	21.78	ppb	97
85) Butyl stearate	13.426	56	292519	28.81	ppb	98
87) Butylbenzylphthalate	13.238	149	292223	22.15	ppb	98
88) Benzo[a]anthracene	14.003	228	600393	21.44	ppb	100
89) 3,3'-Dichlorobenzidine	14.014	252	226712	22.60	ppb	97
90) Chrysene	14.057	228	597377	21.36	ppb	99
91) bis(2-Ethylhexyl)phtha...	14.217	149	405706	22.53	ppb	98
93) Di-n-octylphthalate	15.201	149	695832	22.11	ppb	98
94) Benzo[b]fluoranthene	15.613	252	656372	21.83	ppb	98
95) Benzo[k]fluoranthene	15.651	252	655850	20.99	ppb	99
96) Benzo[a]pyrene	16.052	252	591872	21.08	ppb	99
97) Indeno[1,2,3-cd]pyrene	17.598	276	587986	22.46	ppb	95
98) Dibenz(a,h)acridine	17.277	279	544757	22.01	ppb	100
99) Dibenz[a,h]anthracene	17.640	278	632033	22.51	ppb	97
100) 7,12-Dimethylbenz(a)an...	15.619	256	316026	28.88	ppb	100
101) Benzo[g,h,i]perylene	18.009	276	615131	20.91	ppb	98

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

Data Path : C:\msdchem\1\DATA\6p357\
Data File : 6p8280.D
Acq On : 26 Jun 2014 6:25 pm
Operator : samtap
Sample : ic357-25
Misc : op75816,6p357
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 26 19:02:05 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Thu Jun 26 19:01:04 2014
Response via : Initial Calibration



9.6.36

Manual Integration Approval Summary

Sample Number: E6P357-IC357

Method: SW846 8270D

Lab FileID: 6P8280.D

Analyst approved: 07/01/14 10:59 Andrew Lee Smith

Injection Time: 06/26/14 18:25

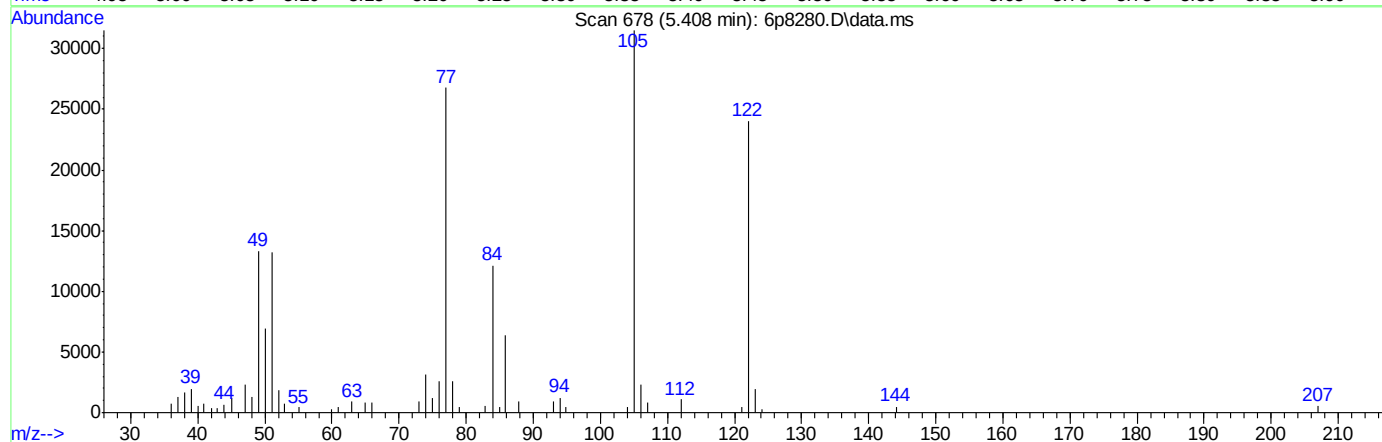
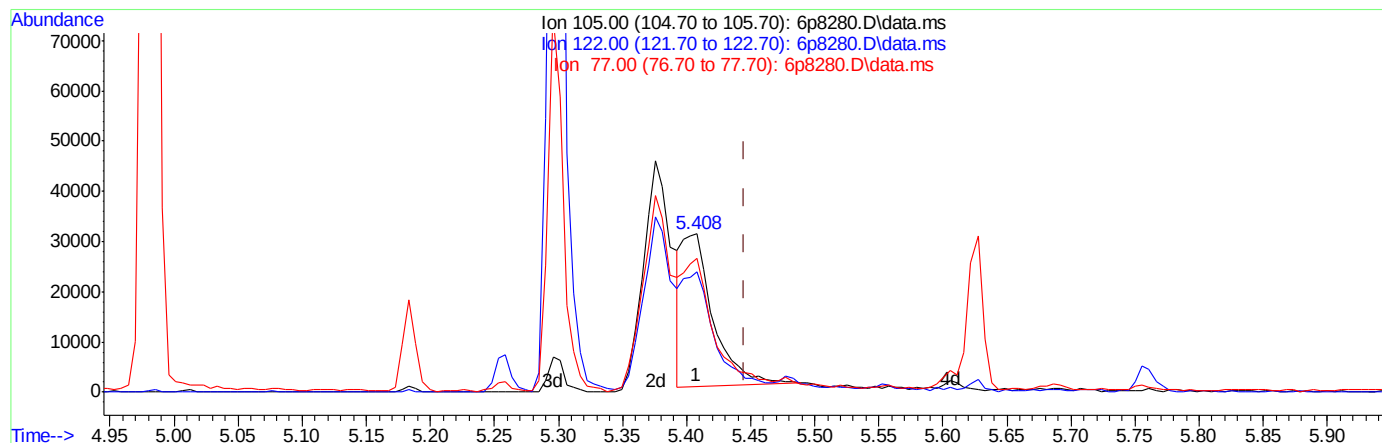
Supervisor approved: 07/02/14 15:14 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic Acid	65-85-0		5.38	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p357\
Data File : 6p8280.D
Acq On : 26 Jun 2014 6:25 pm
Operator : samtap
Sample : ic357-25
Misc : op75816,e6p357
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 26 19:01:13 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Thu Jun 26 19:01:04 2014
Response via : Initial Calibration



(31) Benzoic Acid

5.408min (-0.037) 8.61ppb

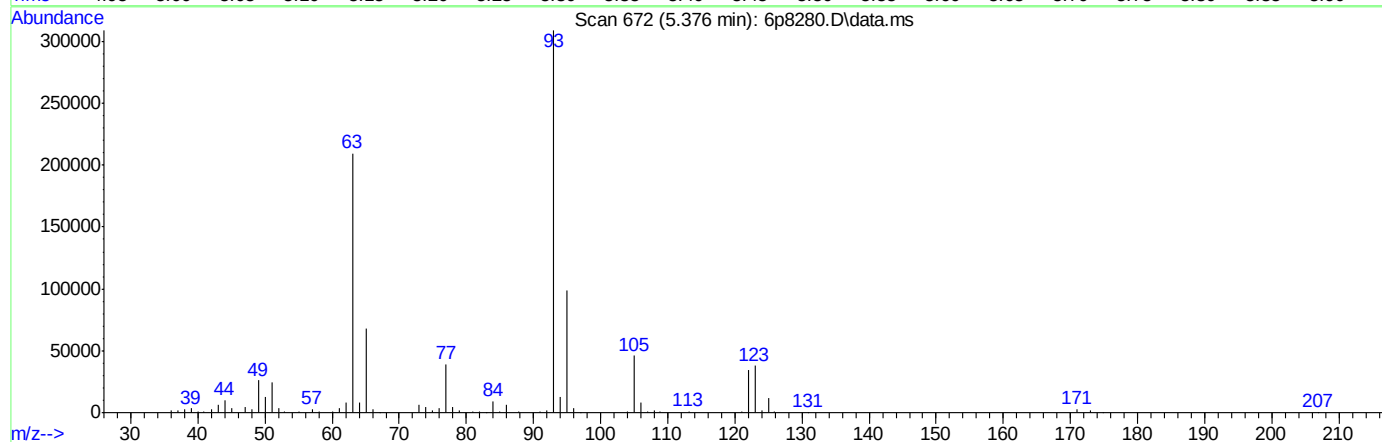
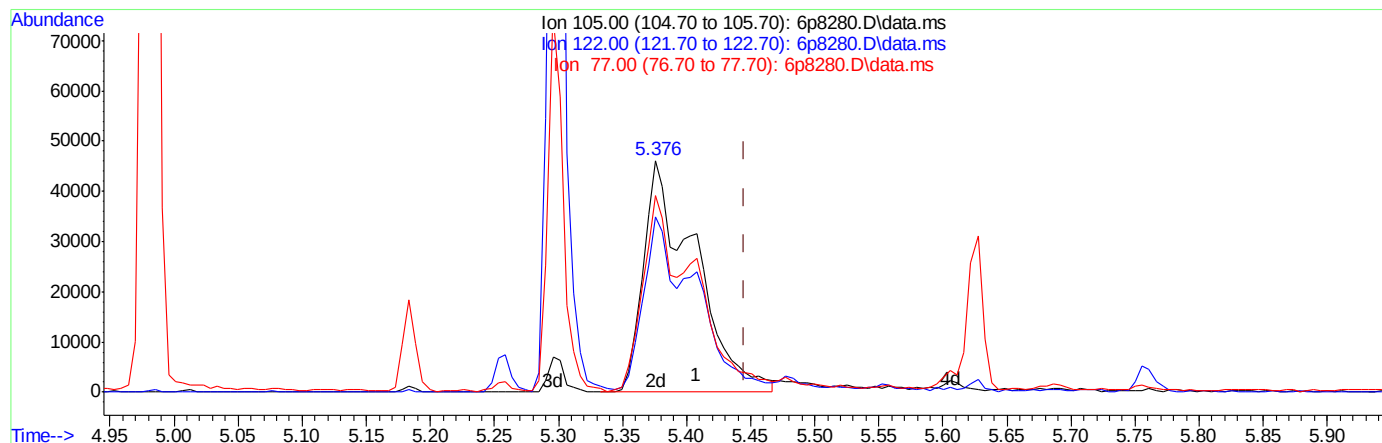
response 52681

Ion	Exp%	Act%
105.00	100	100
122.00	71.30	79.29
77.00	82.00	86.86
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\6p357\
Data File : 6p8280.D
Acq On : 26 Jun 2014 6:25 pm
Operator : samtap
Sample : ic357-25
Misc : op75816,e6p357
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 26 19:01:13 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Thu Jun 26 19:01:04 2014
Response via : Initial Calibration



(31) Benzoic Acid

5.376min (-0.069) 20.94ppb m

response 128100

Ion	Exp%	Act%
105.00	100	100
122.00	71.30	32.61#
77.00	82.00	35.72#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p357\
 Data File : 6p8282.D
 Acq On : 26 Jun 2014 7:01 pm
 Operator : samtap
 Sample : ic358-100
 Misc : op75816,e6p358
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 02 08:34:59 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Thu Jun 26 23:22:31 2014
 Response via : Initial Calibration

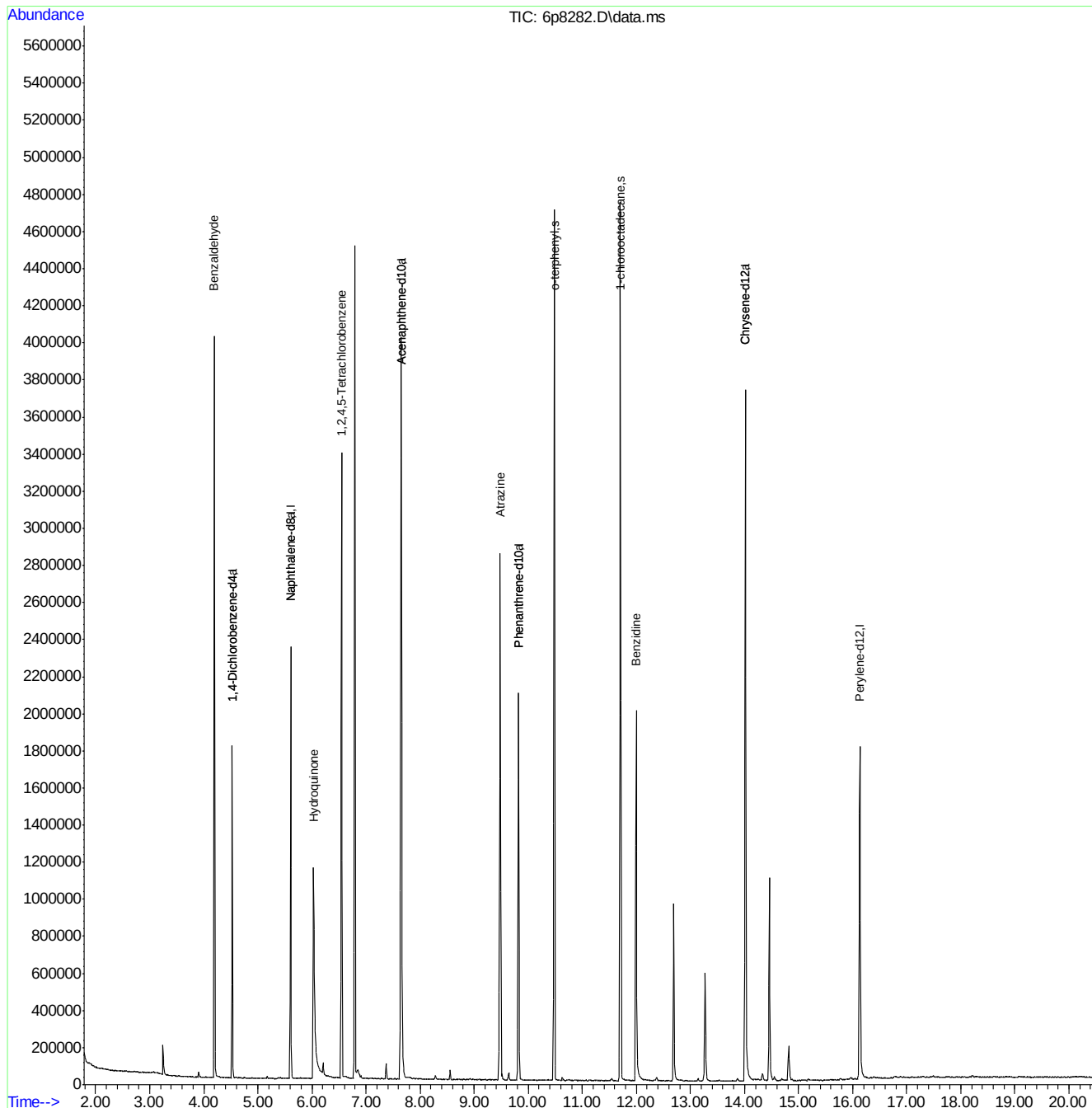
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.525	152	219920	40.00	ppb	0.00
24) Naphthalene-d8	5.606	136	882122	40.00	ppb	0.00
47) Acenaphthene-d10	7.654	164	472933	40.00	ppb	0.00
69) Phenanthrene-d10	9.820	188	914953	40.00	ppb	-0.01
83) Chrysene-d12	14.014	240	908896	40.00	ppb	-0.02
92) Perylene-d12	16.132	264	889956	40.00	ppb	-0.01
102) 1,4-Dichlorobenzene-d4a	4.525	152	219920	40.00	ppb	0.00
104) Phenanthrene-d10a	9.820	188	914953	40.00	ppb	0.00
107) Chrysene-d12a	14.014	240	908896	40.00	ppb	0.00
110) Acenaphthene-d10a	7.654	164	472933	40.00	ppb	0.00
112) Naphthalene-d8a	5.606	136	882122	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	10.484	230	1238727	99.77	ppb	0.00
Spiked Amount 50.000			Recovery	=	199.54%	
109) 1-chlorooctadecane	11.703	57	824521	196.70	ppb	0.00
Spiked Amount 50.000			Recovery	=	393.40%	
Target Compounds						
103) Benzaldehyde	4.194	105	630370	287.84	ppb	Qvalue 94
105) Atrazine	9.489	215	269397m	61.44	ppb	
108) Benzidine	11.997	184	1103477	98.52	ppb	78
111) 1,2,4,5-Tetrachloroben...	6.552	216	650422	97.65	ppb	# 34
113) Hydroquinone	6.028	110	858825	200.87	ppb	95

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p357\
Data File : 6p8282.D
Acq On : 26 Jun 2014 7:01 pm
Operator : samtap
Sample : ic358-100
Misc : op75816,e6p358
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 02 08:34:59 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Thu Jun 26 23:22:31 2014
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: E6P358-IC358

Method: SW846 8270D

Lab FileID: 6P8282.D

Analyst approved: 07/02/14 13:09 Samta Patel

Injection Time: 06/26/14 19:01

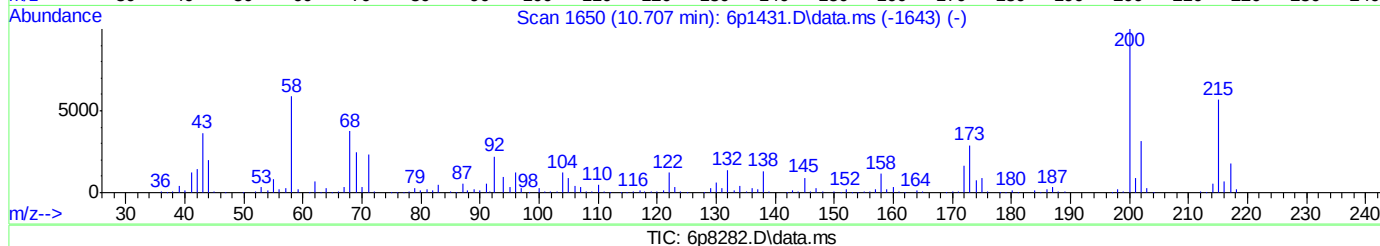
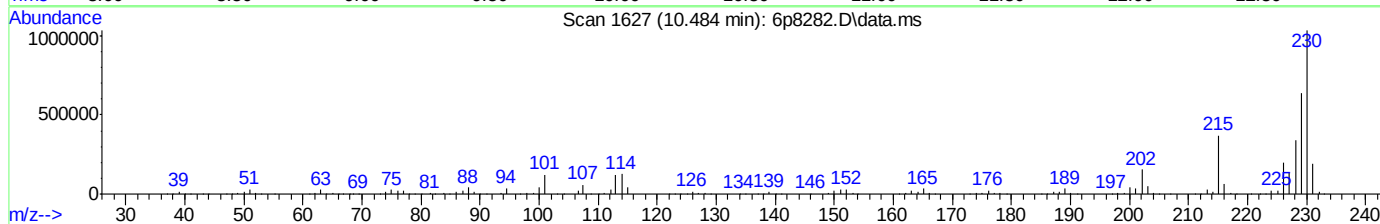
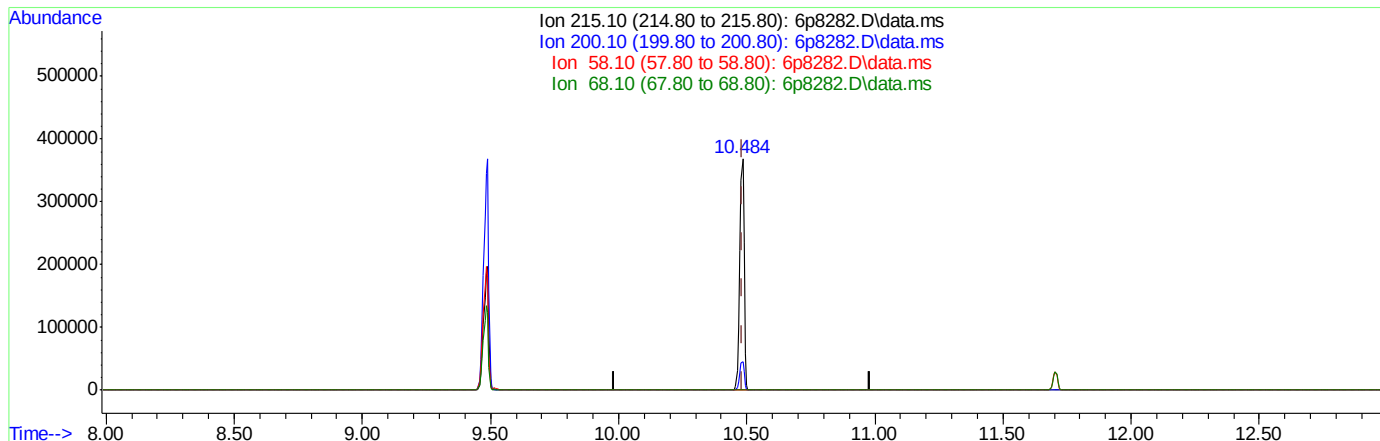
Supervisor approved: 07/02/14 15:01 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
Atrazine	1912-24-9		9.49	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\6p357\
Data File : 6p8282.D
Acq On : 26 Jun 2014 7:01 pm
Operator : samtap
Sample : ic358-100
Misc : op75816,e6p358
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 27 22:38:44 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Thu Jun 26 23:22:31 2014
Response via : Initial Calibration



(105) Atrazine

10.484min (0.000) 100.00ppb

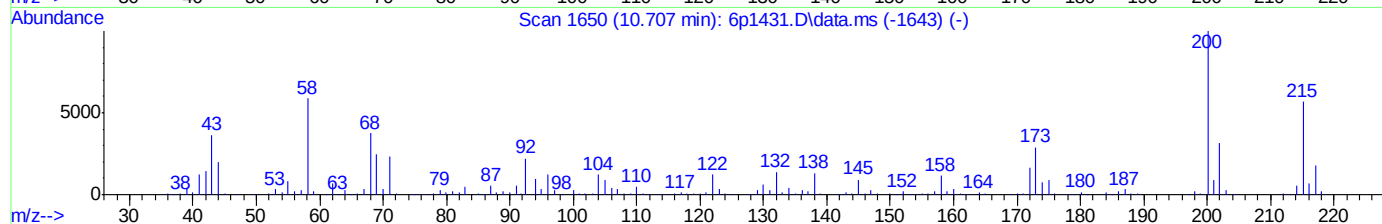
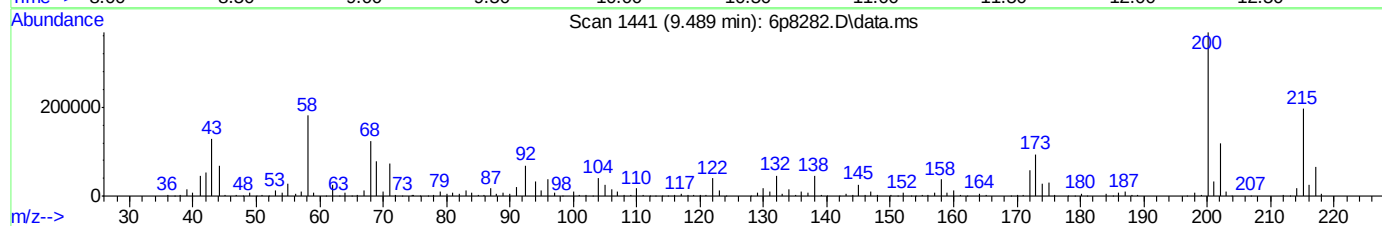
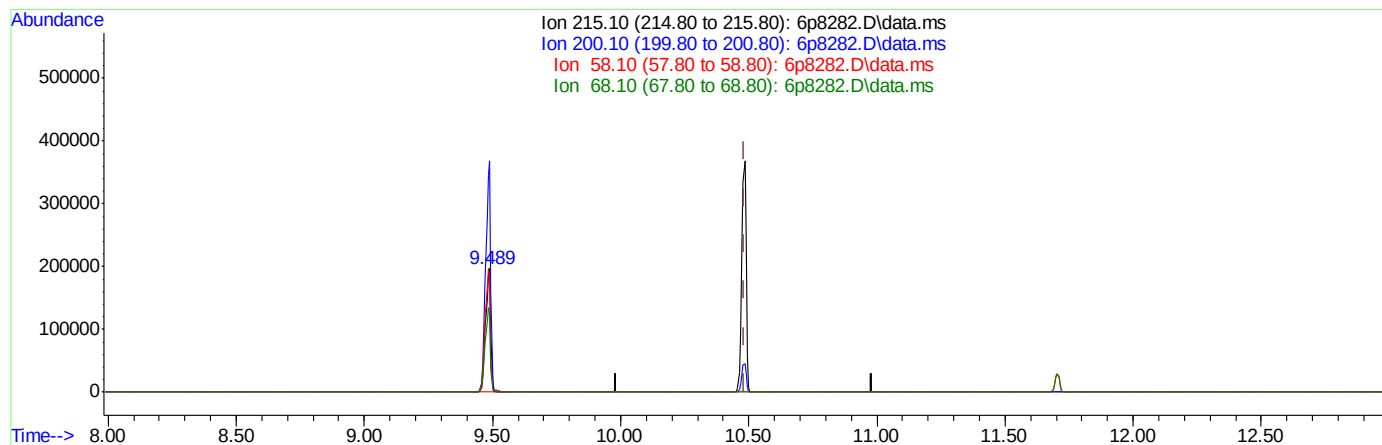
response 438502

Ion	Exp%	Act%
215.10	100	100
200.10	171.10	12.39#
58.10	117.80	0.00#
68.10	43.80	0.25#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\6p357\
Data File : 6p8282.D
Acq On : 26 Jun 2014 7:01 pm
Operator : samtap
Sample : ic358-100
Misc : op75816,e6p358
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 27 22:38:44 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Thu Jun 26 23:22:31 2014
Response via : Initial Calibration



(105) Atrazine

9.489min (-0.995) 61.44ppb m

response 269397

Ion	Exp%	Act%
215.10	100	100
200.10	171.10	187.56
58.10	117.80	92.25
68.10	43.80	63.17

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p357\
 Data File : 6p8283.D
 Acq On : 26 Jun 2014 7:30 pm
 Operator : samtap
 Sample : ic358-1
 Misc : op75816,e6p358
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 02 08:38:46 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Thu Jun 26 23:22:31 2014
 Response via : Initial Calibration

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

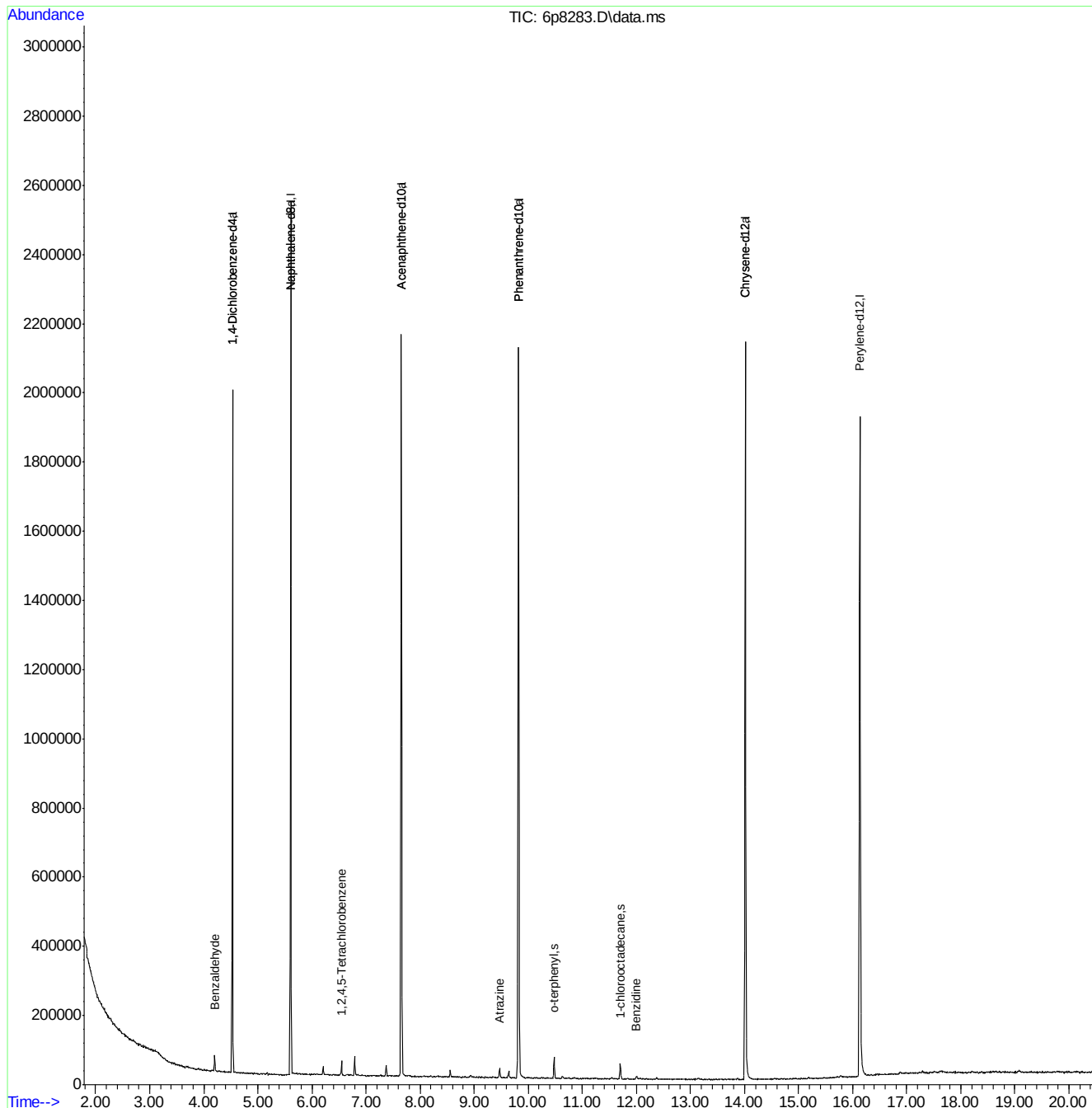
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.531	152	238251	40.00	ppb	0.00
24) Naphthalene-d8	5.606	136	938125	40.00	ppb	0.00
47) Acenaphthene-d10	7.649	164	557005	40.00	ppb	-0.01
69) Phenanthrene-d10	9.821	188	931094	40.00	ppb	-0.01
83) Chrysene-d12	14.014	240	974731	40.00	ppb	-0.02
92) Perylene-d12	16.132	264	922966	40.00	ppb	-0.01
102) 1,4-Dichlorobenzene-d4a	4.531	152	238251	40.00	ppb	0.00
104) Phenanthrene-d10a	9.821	188	931094	40.00	ppb	0.00
107) Chrysene-d12a	14.014	240	974731	40.00	ppb	0.00
110) Acenaphthene-d10a	7.649	164	557005	40.00	ppb	0.00
112) Naphthalene-d8a	5.606	136	938125	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	10.478	230	16593	1.31	ppb	0.00
Spiked Amount 50.000			Recovery	=	2.62%	
109) 1-chlorooctadecane	11.698	57	8554	1.90	ppb	0.00
Spiked Amount 50.000			Recovery	=	3.80%	
Target Compounds						
103) Benzaldehyde	4.199	105	7650	3.22	ppb	Qvalue 93
105) Atrazine	9.468	215	2246m	0.50	ppb	
108) Benzidine	11.997	184	8564	0.71	ppb	76
111) 1,2,4,5-Tetrachloroben...	6.547	216	8398	1.07	ppb	# 30

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p357\
Data File : 6p8283.D
Acq On : 26 Jun 2014 7:30 pm
Operator : samtap
Sample : ic358-1
Misc : op75816,e6p358
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 02 08:38:46 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Thu Jun 26 23:22:31 2014
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: E6P358-IC358

Method: SW846 8270D

Lab FileID: 6P8283.D

Analyst approved: 07/02/14 13:09 Samta Patel

Injection Time: 06/26/14 19:30

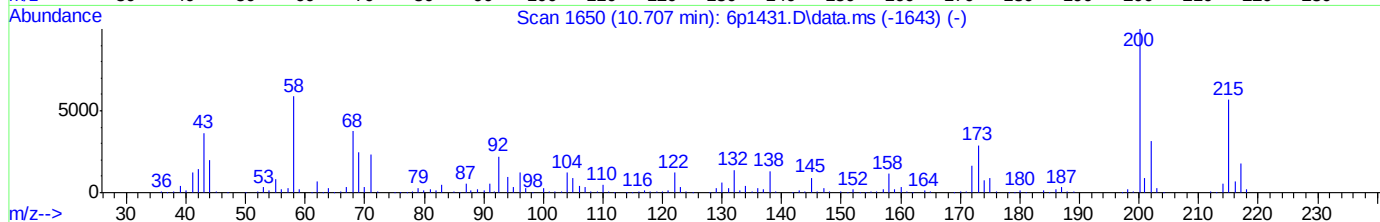
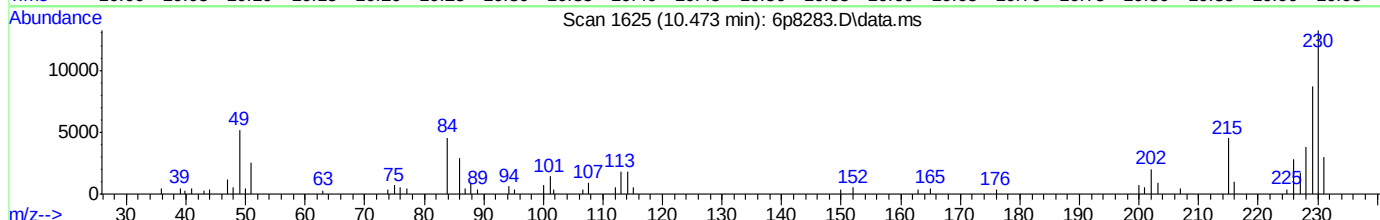
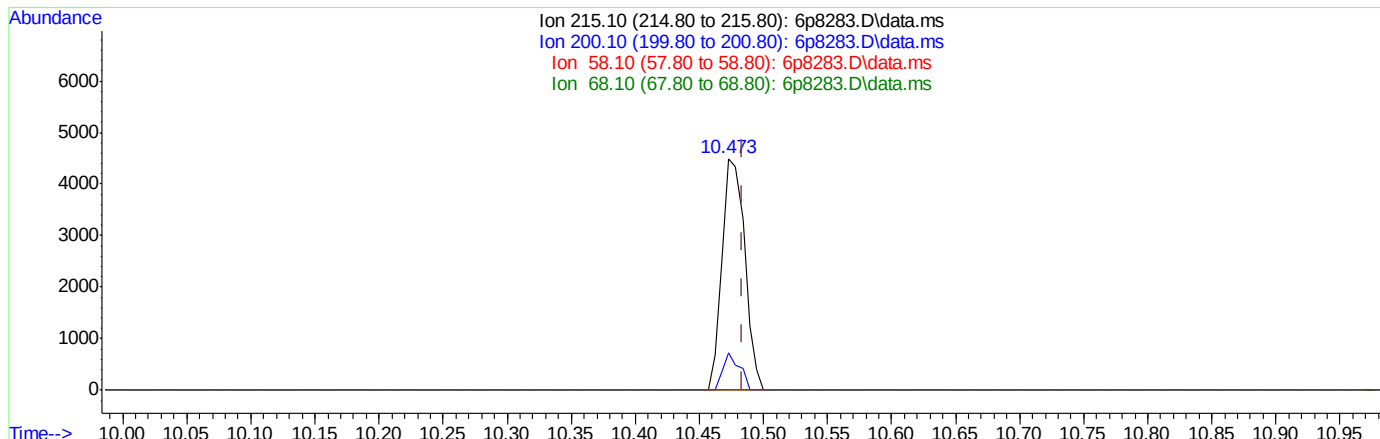
Supervisor approved: 07/02/14 15:01 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
Atrazine	1912-24-9		9.47	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\6p357\
Data File : 6p8283.D
Acq On : 26 Jun 2014 7:30 pm
Operator : samtap
Sample : ic358-1
Misc : op75816,e6p358
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 27 22:39:09 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Thu Jun 26 23:22:31 2014
Response via : Initial Calibration



TIC: 6p8283.D\data.ms

(105) Atrazine

10.473min (-0.011) 1.22ppb

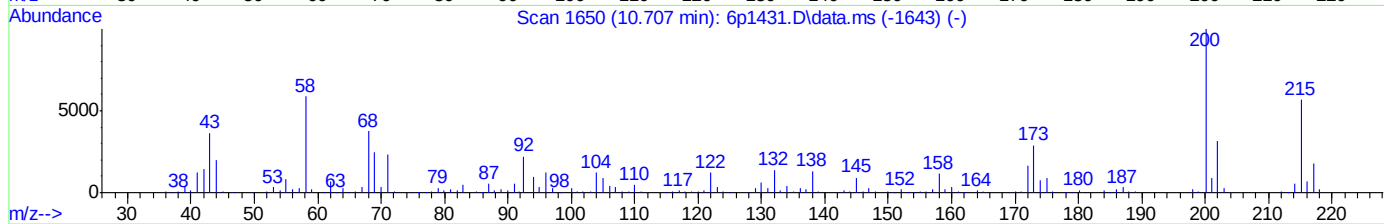
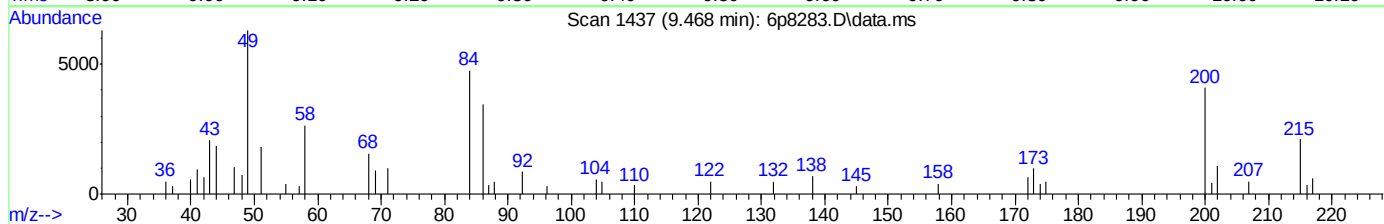
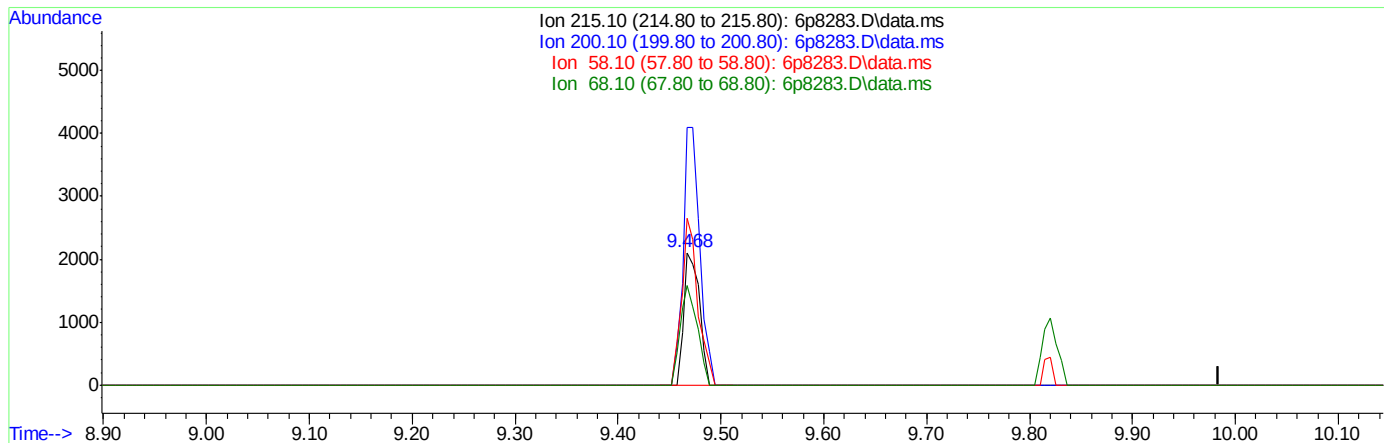
response 5448

Ion	Exp%	Act%
215.10	100	100
200.10	171.10	15.95#
58.10	117.80	0.00#
68.10	43.80	0.00#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\6p357\
Data File : 6p8283.D
Acq On : 26 Jun 2014 7:30 pm
Operator : samtap
Sample : ic358-1
Misc : op75816,e6p358
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 27 22:39:09 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Thu Jun 26 23:22:31 2014
Response via : Initial Calibration



(105) Atrazine

9.468min (-1.016) 0.50ppb m

response 2246

Ion	Exp%	Act%
215.10	100	100
200.10	171.10	194.73
58.10	117.80	125.68
68.10	43.80	74.75#

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p357\
 Data File : 6p8284.D
 Acq On : 26 Jun 2014 7:58 pm
 Operator : samtap
 Sample : ic358-80
 Misc : op75816,e6p358
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 02 08:39:35 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Fri Jun 27 22:40:35 2014
 Response via : Initial Calibration

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

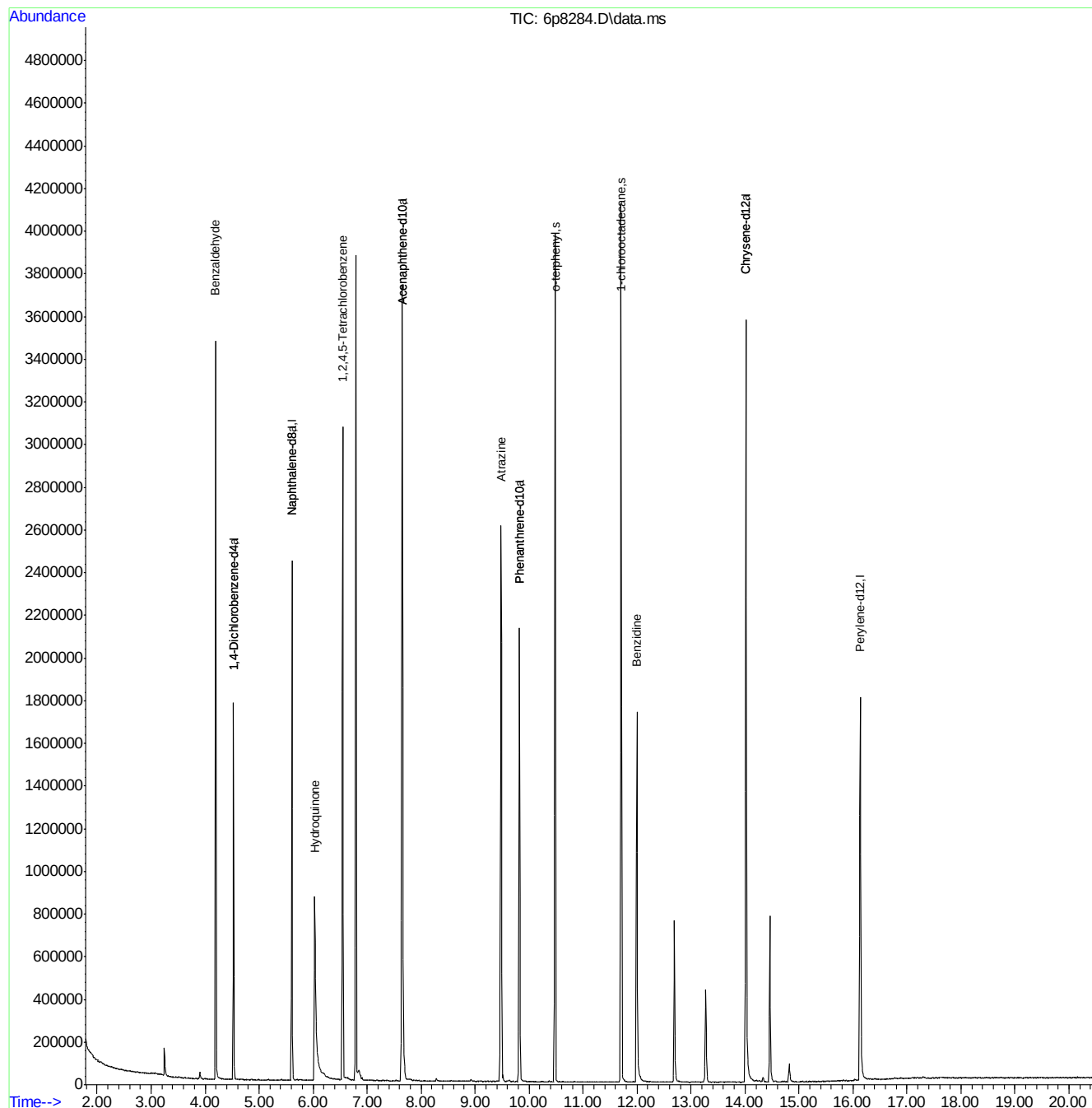
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.531	152	227254	40.00	ppb	0.00
24) Naphthalene-d8	5.606	136	914283	40.00	ppb	0.00
47) Acenaphthene-d10	7.654	164	496392	40.00	ppb	0.00
69) Phenanthrene-d10	9.820	188	936474	40.00	ppb	-0.01
83) Chrysene-d12	14.014	240	940298	40.00	ppb	-0.02
92) Perylene-d12	16.137	264	900420	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	4.531	152	227254	40.00	ppb	0.00
104) Phenanthrene-d10a	9.820	188	936474	40.00	ppb	0.00
107) Chrysene-d12a	14.014	240	940298	40.00	ppb	0.00
110) Acenaphthene-d10a	7.654	164	496392	40.00	ppb	0.00
112) Naphthalene-d8a	5.606	136	914283	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	10.484	230	1050642	82.68	ppb	0.00
Spiked Amount 50.000			Recovery	=	165.36%	
109) 1-chlorooctadecane	11.703	57	694420	80.88	ppb	0.00
Spiked Amount 50.000			Recovery	=	161.76%	
Target Compounds						Qvalue
103) Benzaldehyde	4.194	105	544960	83.66	ppb	93
105) Atrazine	9.483	215	226893m	50.55	ppb	
108) Benzidine	11.997	184	963490	83.15	ppb	78
111) 1,2,4,5-Tetrachloroben...	6.547	216	559142	79.98	ppb	# 34
113) Hydroquinone	6.034	110	700916	79.57	ppb	95

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p357\
Data File : 6p8284.D
Acq On : 26 Jun 2014 7:58 pm
Operator : samtap
Sample : ic358-80
Misc : op75816,e6p358
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 02 08:39:35 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Fri Jun 27 22:40:35 2014
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: E6P358-IC358

Method: SW846 8270D

Lab FileID: 6P8284.D

Analyst approved: 07/02/14 13:09 Samta Patel

Injection Time: 06/26/14 19:58

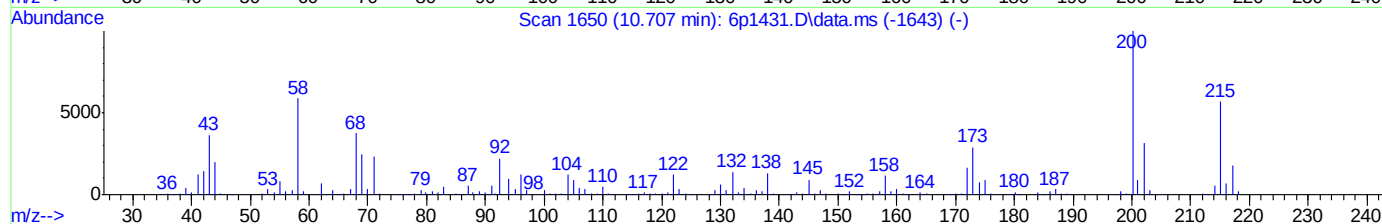
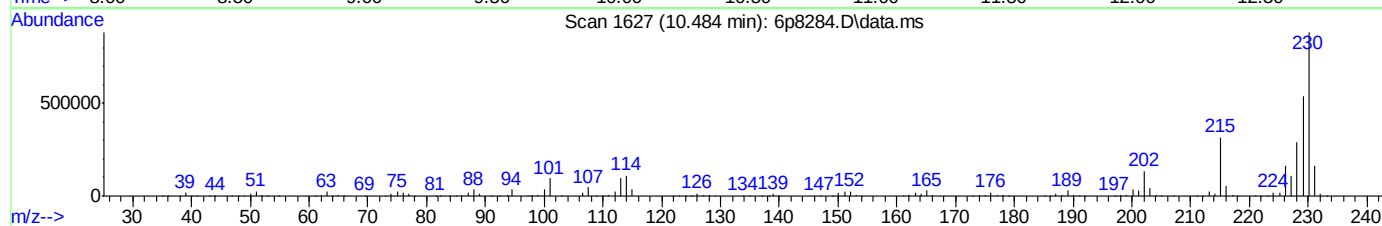
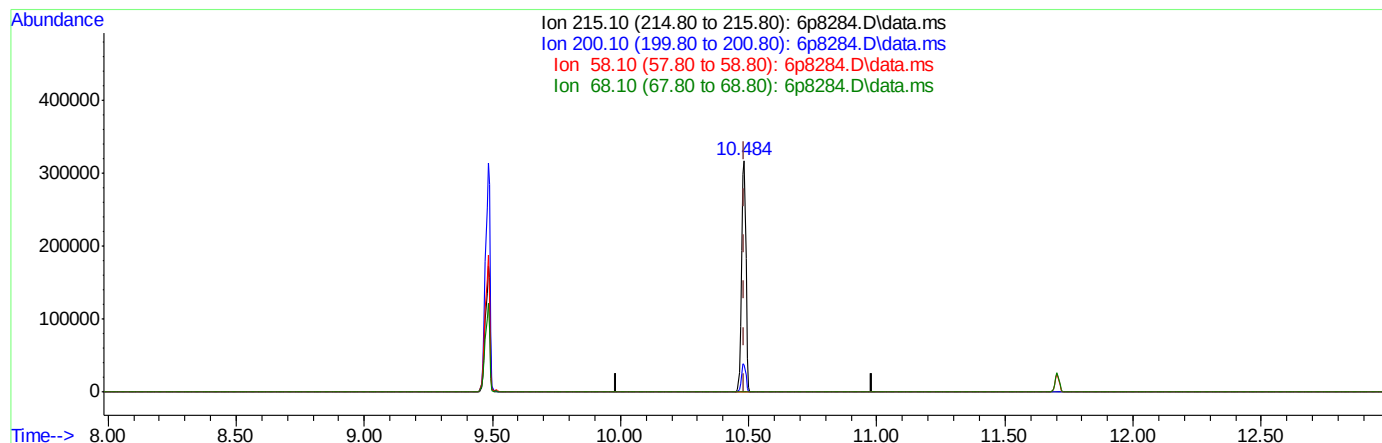
Supervisor approved: 07/02/14 15:01 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
Atrazine	1912-24-9		9.48	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p357\
Data File : 6p8284.D
Acq On : 26 Jun 2014 7:58 pm
Operator : samtap
Sample : ic358-80
Misc : op75816,e6p358
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 27 22:41:03 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Fri Jun 27 22:40:35 2014
Response via : Initial Calibration



(105) Atrazine

10.484min (-0.000) 83.49ppb

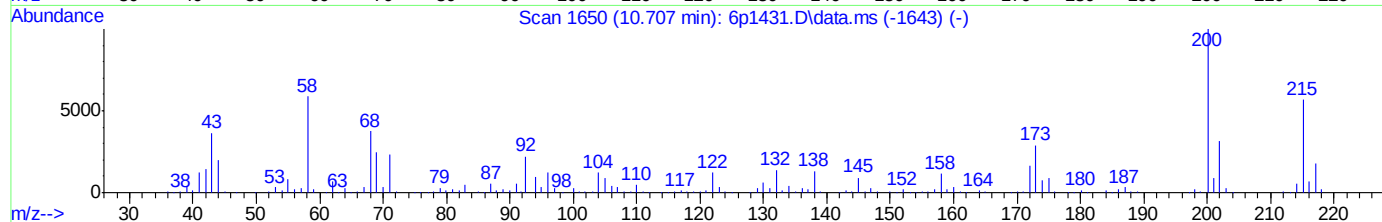
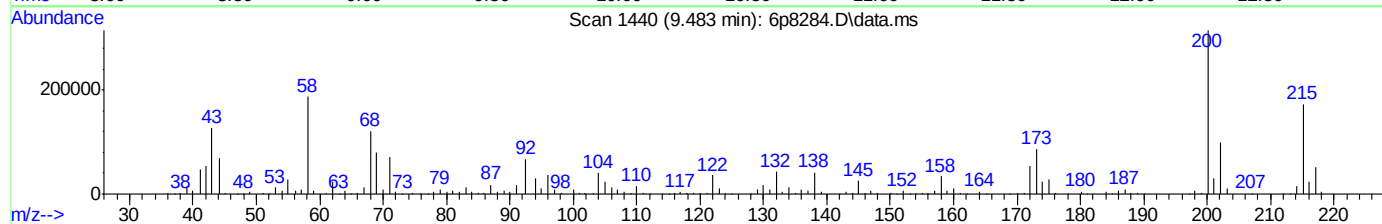
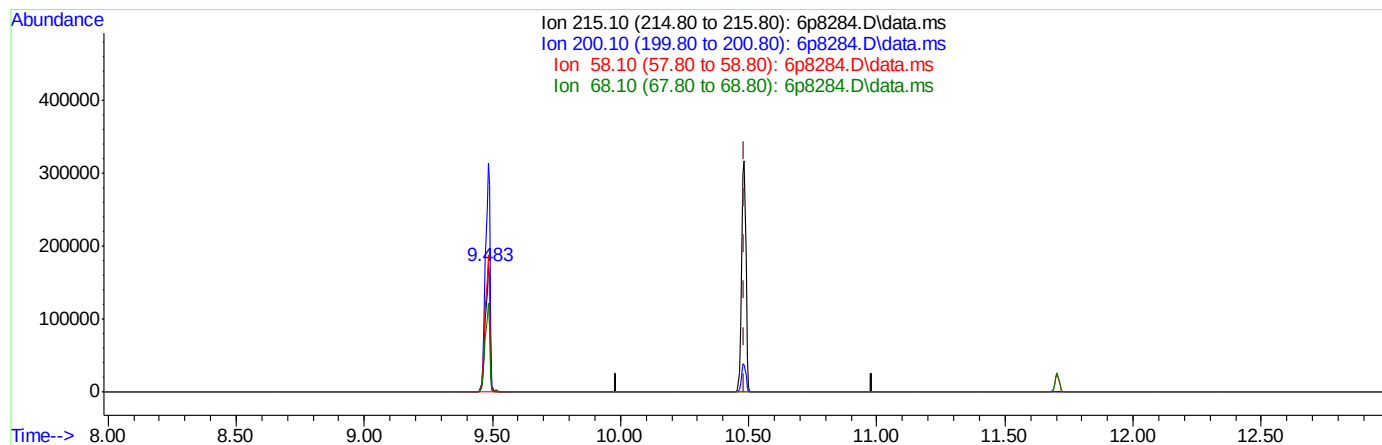
response 374728

Ion	Exp%	Act%
215.10	100	100
200.10	171.10	12.02#
58.10	117.80	0.00#
68.10	43.80	0.00#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\6p357\
Data File : 6p8284.D
Acq On : 26 Jun 2014 7:58 pm
Operator : samtap
Sample : ic358-80
Misc : op75816,e6p358
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 27 22:41:03 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Fri Jun 27 22:40:35 2014
Response via : Initial Calibration



(105) Atrazine

9.483min (-1.001) 50.55ppb m

response 226893

Ion	Exp%	Act%
215.10	100	100
200.10	171.10	181.58
58.10	117.80	108.14
68.10	43.80	70.31

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p357\
 Data File : 6p8285.D
 Acq On : 26 Jun 2014 8:26 pm
 Operator : samtap
 Sample : ic358-10
 Misc : op75816,e6p358
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 02 08:40:26 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Fri Jun 27 22:40:35 2014
 Response via : Initial Calibration

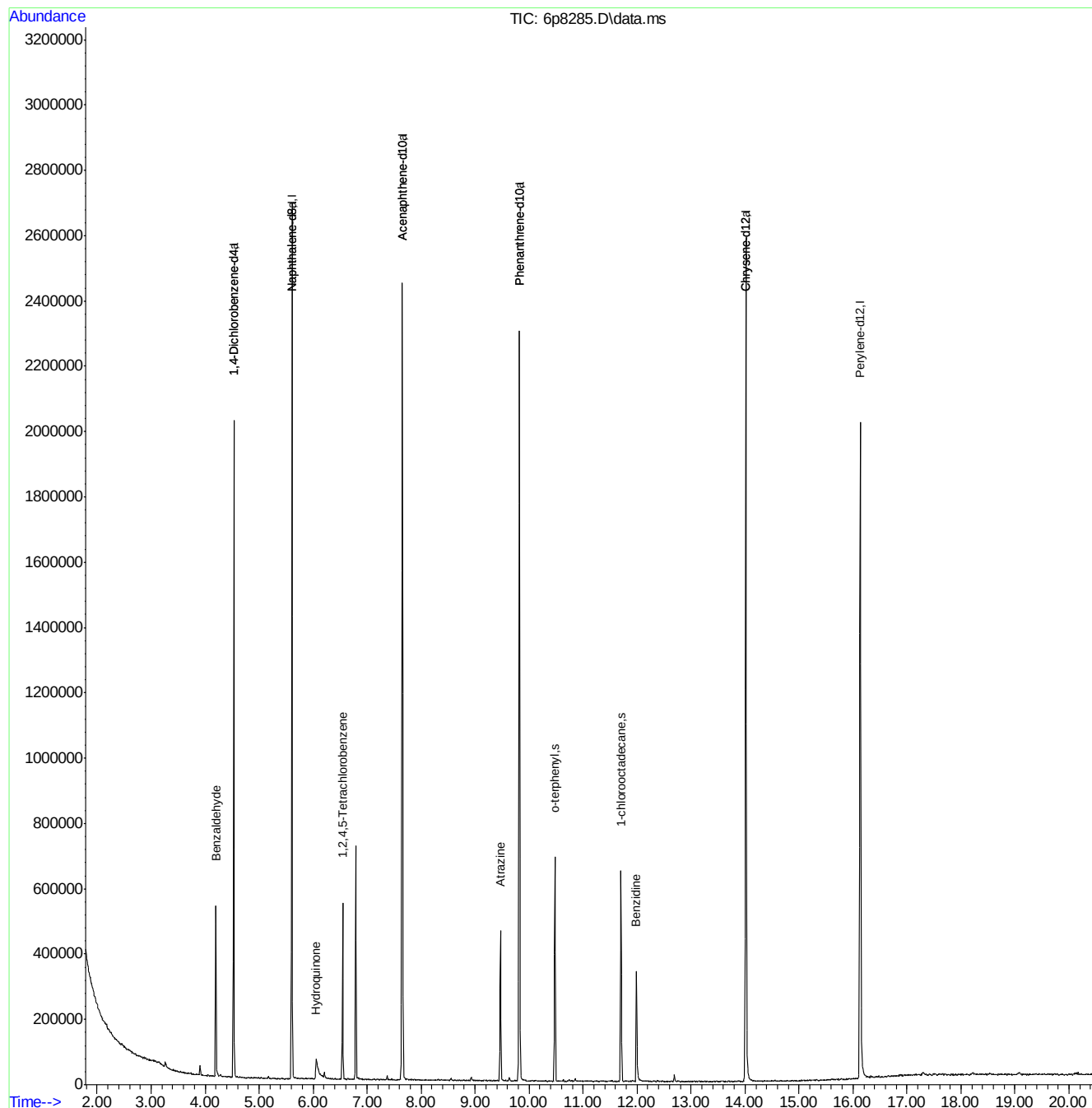
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.531	152	252706	40.00	ppb	0.00
24) Naphthalene-d8	5.606	136	987398	40.00	ppb	0.00
47) Acenaphthene-d10	7.654	164	578321	40.00	ppb	0.00
69) Phenanthrene-d10	9.821	188	980097	40.00	ppb	-0.01
83) Chrysene-d12	14.014	240	1032588	40.00	ppb	-0.02
92) Perylene-d12	16.137	264	982366	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	4.531	152	252706	40.00	ppb	0.00
104) Phenanthrene-d10a	9.821	188	980097	40.00	ppb	0.00
107) Chrysene-d12a	14.014	240	1032588	40.00	ppb	0.00
110) Acenaphthene-d10a	7.654	164	578321	40.00	ppb	0.00
112) Naphthalene-d8a	5.606	136	987398	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	10.479	230	172177	12.95	ppb	0.00
Spiked Amount	50.000		Recovery	=	25.90%	
109) 1-chlorooctadecane	11.698	57	105717	11.21	ppb	0.00
Spiked Amount	50.000		Recovery	=	22.42%	
Target Compounds						
103) Benzaldehyde	4.199	105	89204	12.32	ppb	Qvalue 96
105) Atrazine	9.468	215	33061m	7.04	ppb	
108) Benzidine	11.987	184	191647	15.06	ppb	78
111) 1,2,4,5-Tetrachloroben...	6.547	216	91215	11.20	ppb	# 33
113) Hydroquinone	6.055	110	66168	6.96	ppb	96

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p357\
Data File : 6p8285.D
Acq On : 26 Jun 2014 8:26 pm
Operator : samtap
Sample : ic358-10
Misc : op75816,e6p358
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 02 08:40:26 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Fri Jun 27 22:40:35 2014
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: E6P358-IC358

Method: SW846 8270D

Lab FileID: 6P8285.D

Analyst approved: 07/02/14 13:09 Samta Patel

Injection Time: 06/26/14 20:26

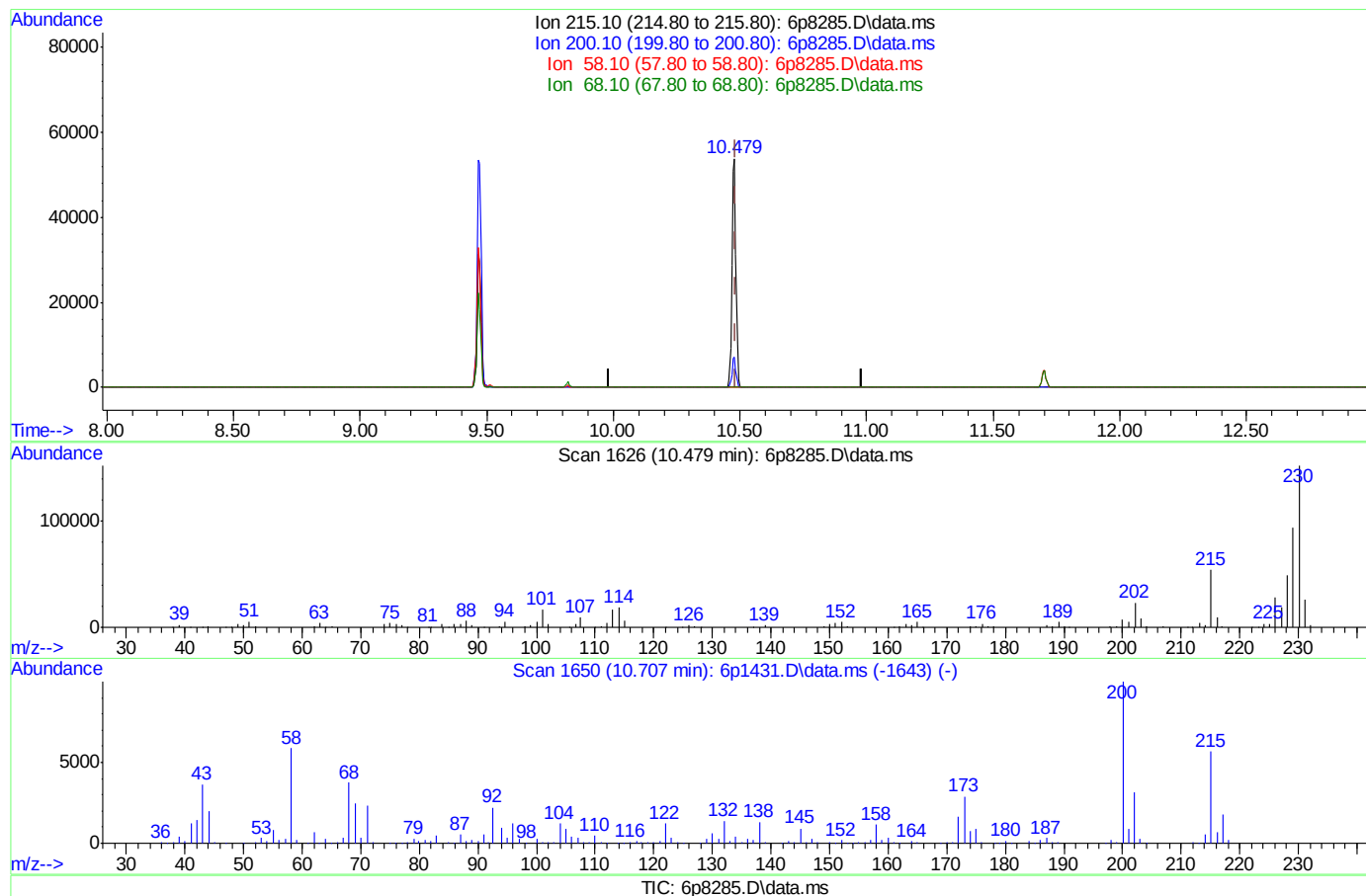
Supervisor approved: 07/02/14 15:01 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
Atrazine	1912-24-9		9.47	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\6p357\
Data File : 6p8285.D
Acq On : 26 Jun 2014 8:26 pm
Operator : samtap
Sample : ic358-10
Misc : op75816,e6p358
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 27 22:41:27 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Fri Jun 27 22:40:35 2014
Response via : Initial Calibration



(105) Atrazine

10.479min (-0.005) 12.87ppb

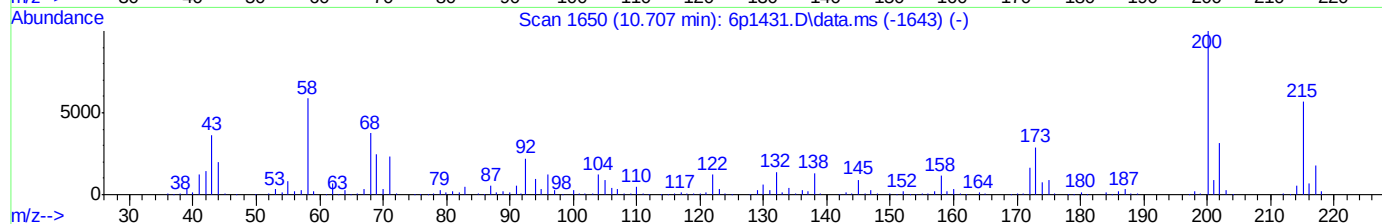
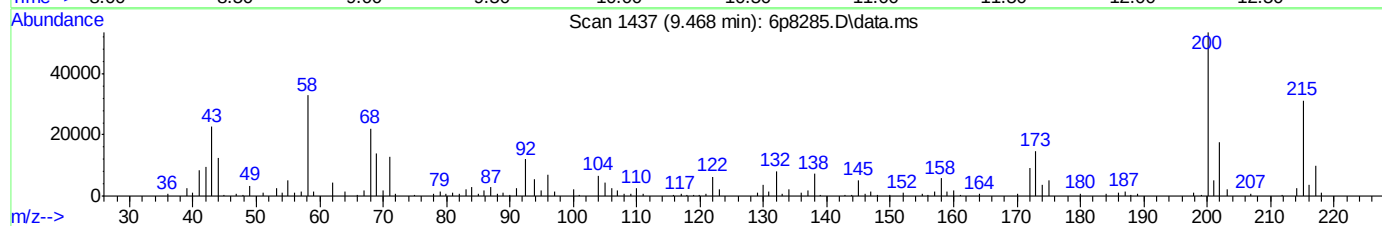
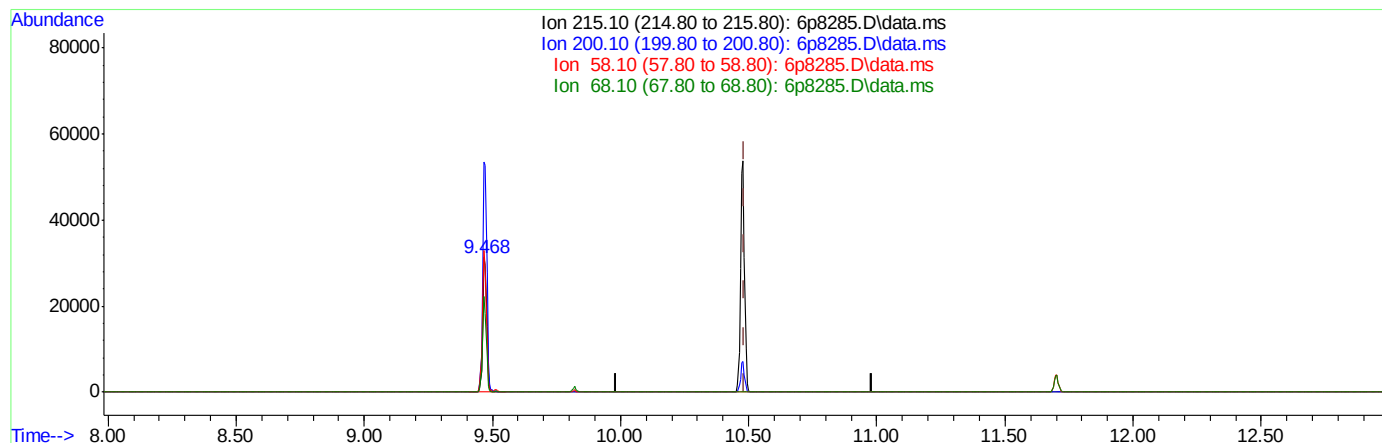
response 60454

Ion	Exp%	Act%
215.10	100	100
200.10	171.10	13.10#
58.10	117.80	0.00#
68.10	43.80	0.00#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\6p357\
Data File : 6p8285.D
Acq On : 26 Jun 2014 8:26 pm
Operator : samtap
Sample : ic358-10
Misc : op75816,e6p358
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 27 22:41:27 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Fri Jun 27 22:40:35 2014
Response via : Initial Calibration



TIC: 6p8285.D\data.ms

(105) Atrazine

9.468min (-1.016) 7.04ppb m

response 33061

Ion	Exp%	Act%
215.10	100	100
200.10	171.10	170.77
58.10	117.80	105.14
68.10	43.80	70.72

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p357\
 Data File : 6p8286.D
 Acq On : 26 Jun 2014 8:54 pm
 Operator : samtap
 Sample : icc358-50
 Misc : op75816,e6p358
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 02 08:40:59 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Fri Jun 27 22:40:35 2014
 Response via : Initial Calibration

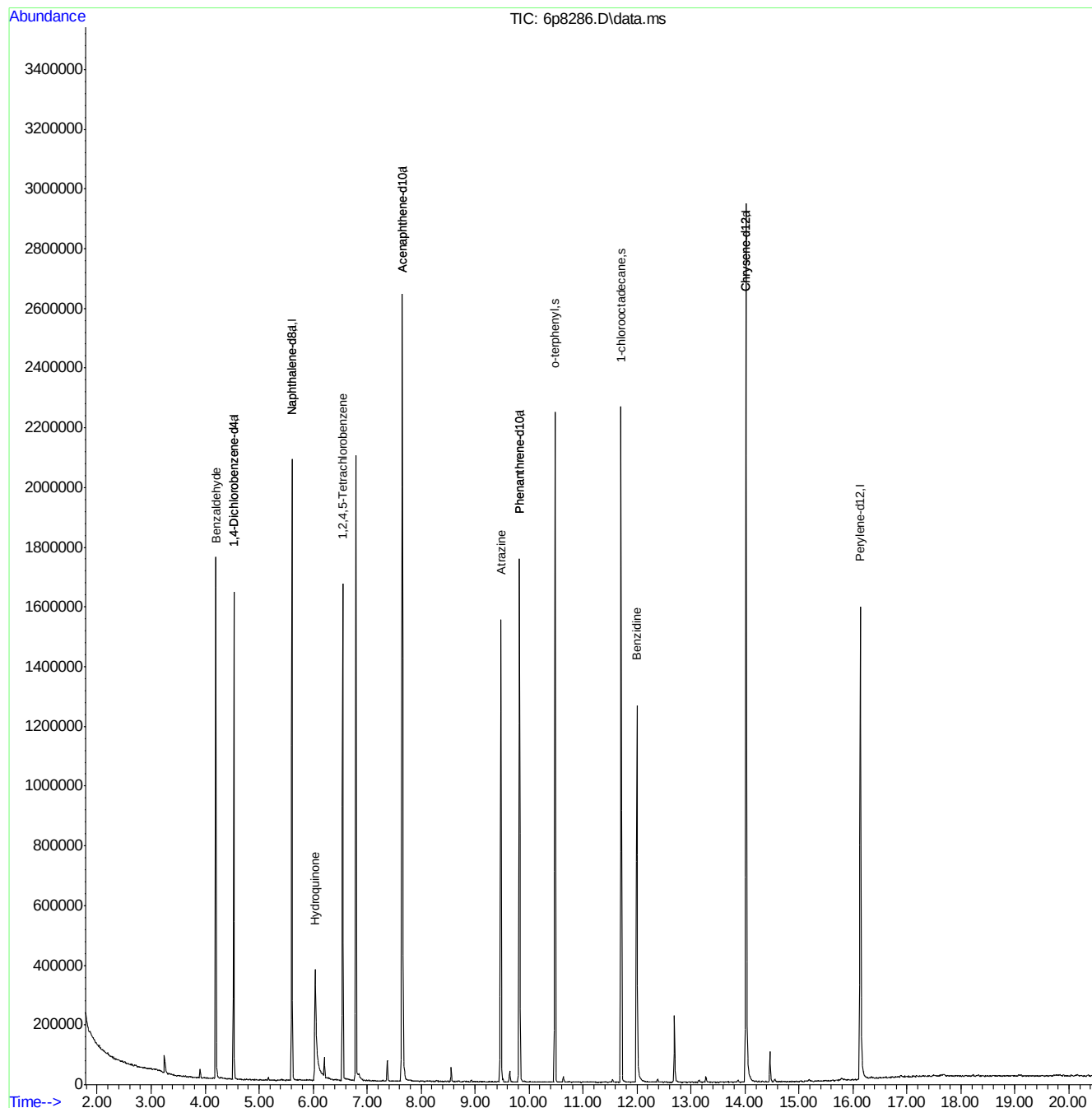
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.531	152	196791	40.00	ppb	0.00
24) Naphthalene-d8	5.606	136	779492	40.00	ppb	0.00
47) Acenaphthene-d10	7.654	164	440204	40.00	ppb	0.00
69) Phenanthrene-d10	9.820	188	783943	40.00	ppb	-0.01
83) Chrysene-d12	14.019	240	808109	40.00	ppb	-0.01
92) Perylene-d12	16.137	264	762340	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	4.531	152	196791	40.00	ppb	0.00
104) Phenanthrene-d10a	9.820	188	783943	40.00	ppb	0.00
107) Chrysene-d12a	14.019	240	808109	40.00	ppb	0.00
110) Acenaphthene-d10a	7.654	164	440204	40.00	ppb	0.00
112) Naphthalene-d8a	5.606	136	779492	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	10.478	230	569116	53.50	ppb	0.00
Spiked Amount	50.000		Recovery	=	107.00%	
109) 1-chlorooctadecane	11.703	57	372670	50.51	ppb	0.00
Spiked Amount	50.000		Recovery	=	101.02%	
Target Compounds						
103) Benzaldehyde	4.199	105	299207	53.04	ppb	Qvalue 96
105) Atrazine	9.478	215	115916m	30.85	ppb	
108) Benzidine	11.997	184	673518	67.63	ppb	78
111) 1,2,4,5-Tetrachloroben...	6.547	216	300115	48.41	ppb	# 34
113) Hydroquinone	6.039	110	312658	41.63	ppb	94

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p357\
Data File : 6p8286.D
Acq On : 26 Jun 2014 8:54 pm
Operator : samtap
Sample : icc358-50
Misc : op75816,e6p358
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 02 08:40:59 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Fri Jun 27 22:40:35 2014
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number:

E6P358-ICC358

Method:

SW846 8270D

Lab FileID:

6P8286.D

Analyst approved:

07/02/14 13:09 Samta Patel

Injection Time:

06/26/14 20:54

Supervisor approved:

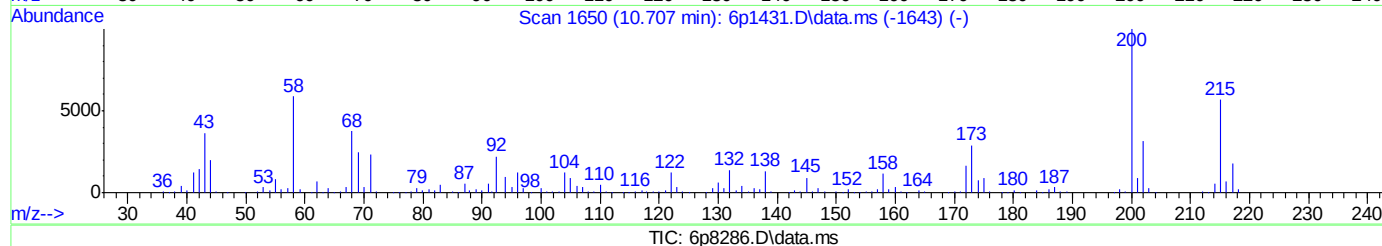
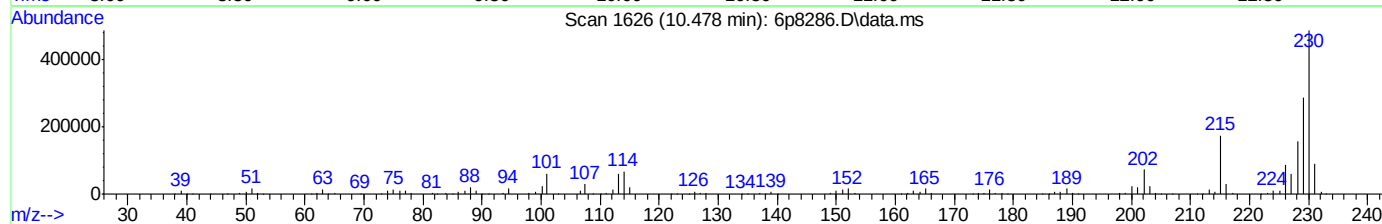
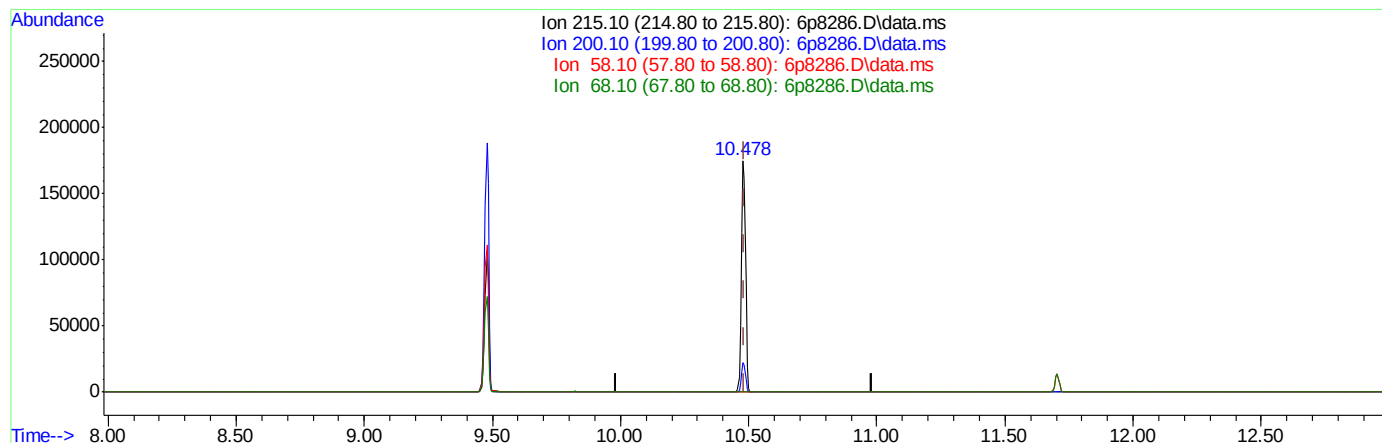
07/02/14 15:01 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
Atrazine	1912-24-9		9.48	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\6p357\
Data File : 6p8286.D
Acq On : 26 Jun 2014 8:54 pm
Operator : samtap
Sample : icc358-50
Misc : op75816,e6p358
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 27 22:41:54 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Fri Jun 27 22:40:35 2014
Response via : Initial Calibration



(105) Atrazine

10.478min (-0.006) 53.51ppb

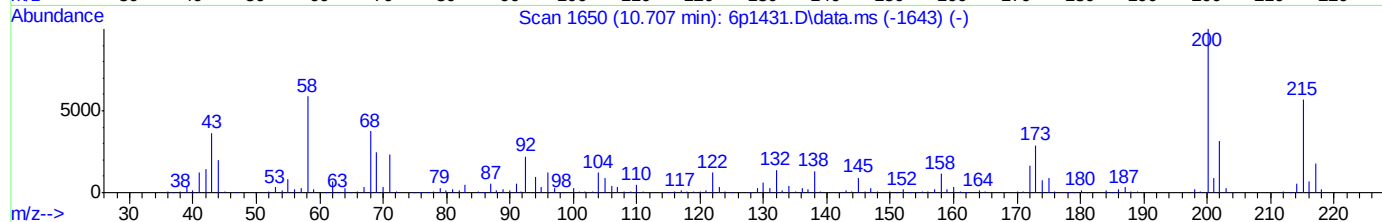
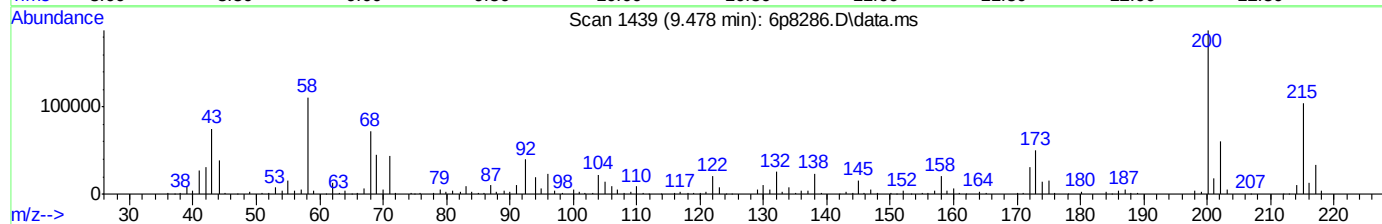
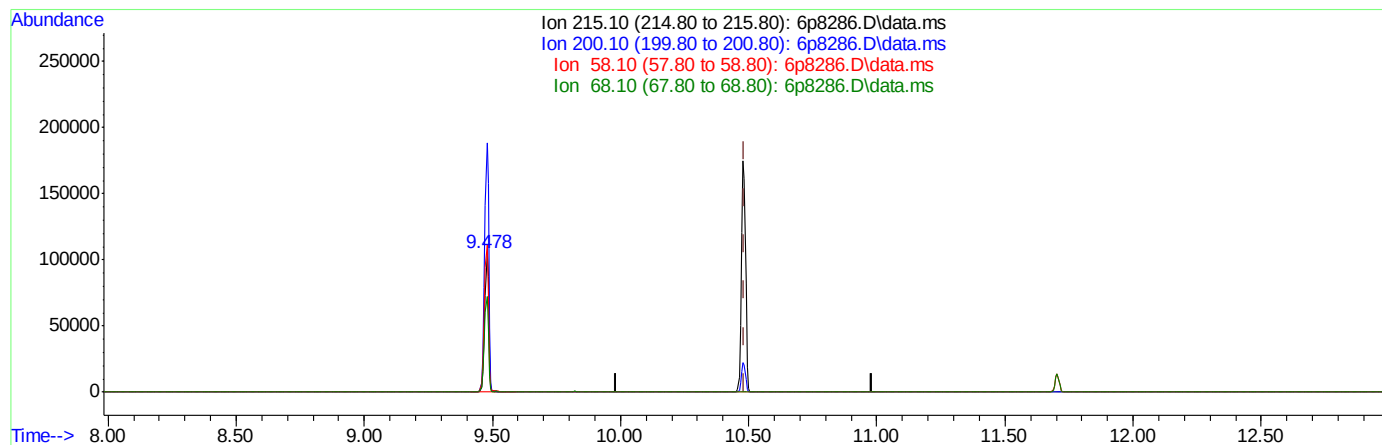
response 201037

Ion	Exp%	Act%
215.10	100	100
200.10	171.10	13.01#
58.10	117.80	0.00#
68.10	43.80	0.00#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\6p357\
Data File : 6p8286.D
Acq On : 26 Jun 2014 8:54 pm
Operator : samtap
Sample : icc358-50
Misc : op75816,e6p358
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 27 22:41:54 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Fri Jun 27 22:40:35 2014
Response via : Initial Calibration



(105) Atrazine

9.478min (-1.006) 30.85ppb m

response 115916

Ion	Exp%	Act%
215.10	100	100
200.10	171.10	179.45
58.10	117.80	106.24
68.10	43.80	68.87

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p357\
 Data File : 6p8287.D
 Acq On : 26 Jun 2014 9:23 pm
 Operator : samtap
 Sample : ic358-5
 Misc : op75816,e6p358
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 02 08:41:50 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Fri Jun 27 22:40:35 2014
 Response via : Initial Calibration

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

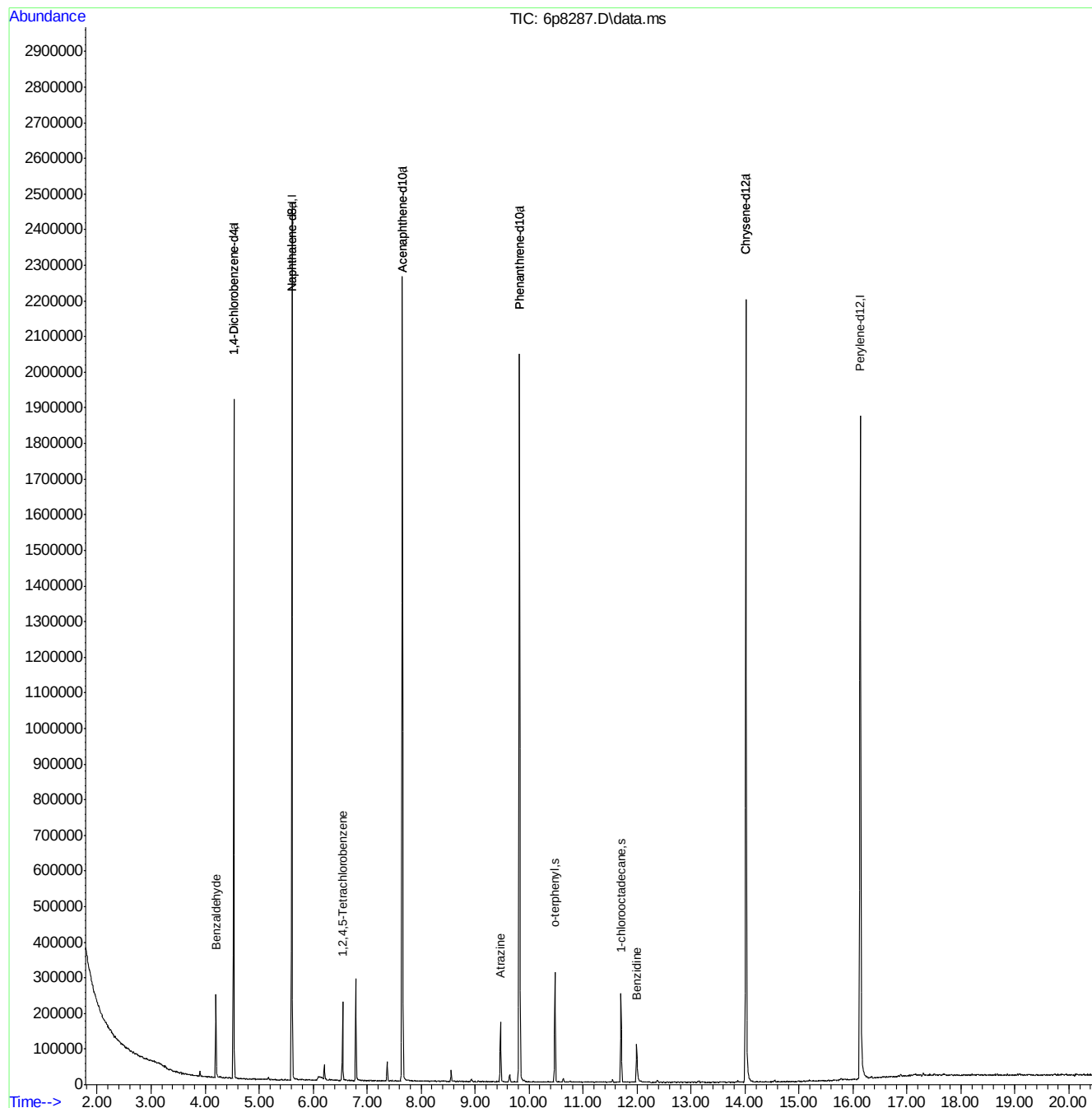
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.531	152	231590	40.00	ppb	0.00
24) Naphthalene-d8	5.606	136	920430	40.00	ppb	0.00
47) Acenaphthene-d10	7.654	164	547183	40.00	ppb	0.00
69) Phenanthrene-d10	9.821	188	929330	40.00	ppb	-0.01
83) Chrysene-d12	14.014	240	977640	40.00	ppb	-0.02
92) Perylene-d12	16.137	264	909773	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	4.531	152	231590	40.00	ppb	0.00
104) Phenanthrene-d10a	9.821	188	929330	40.00	ppb	0.00
107) Chrysene-d12a	14.014	240	977640	40.00	ppb	0.00
110) Acenaphthene-d10a	7.654	164	547183	40.00	ppb	0.00
112) Naphthalene-d8a	5.606	136	920430	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	10.479	230	73614	5.84	ppb	0.00
Spiked Amount 50.000			Recovery	=	11.68%	
109) 1-chlorooctadecane	11.698	57	43502	4.87	ppb	0.00
Spiked Amount 50.000			Recovery	=	9.74%	
Target Compounds						
103) Benzaldehyde	4.199	105	38626	5.82	ppb	Qvalue 96
105) Atrazine	9.468	215	12694m	2.85	ppb	
108) Benzidine	11.992	184	65879	5.47	ppb	78
111) 1,2,4,5-Tetrachloroben...	6.547	216	37009	4.80	ppb	# 33

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p357\
Data File : 6p8287.D
Acq On : 26 Jun 2014 9:23 pm
Operator : samtap
Sample : ic358-5
Misc : op75816,e6p358
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 02 08:41:50 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Fri Jun 27 22:40:35 2014
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: E6P358-IC358

Method: SW846 8270D

Lab FileID: 6P8287.D

Analyst approved: 07/02/14 13:09 Samta Patel

Injection Time: 06/26/14 21:23

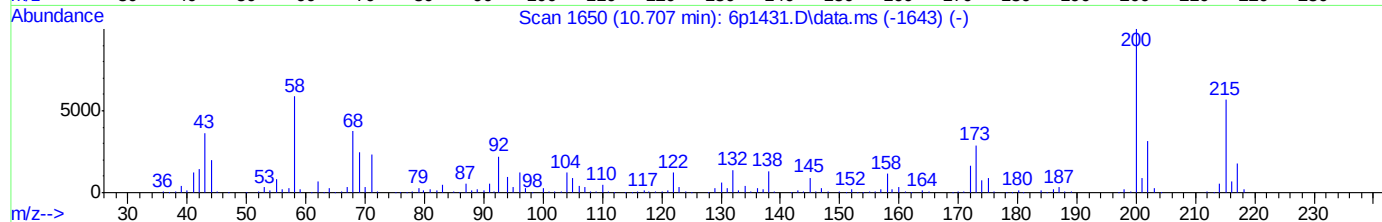
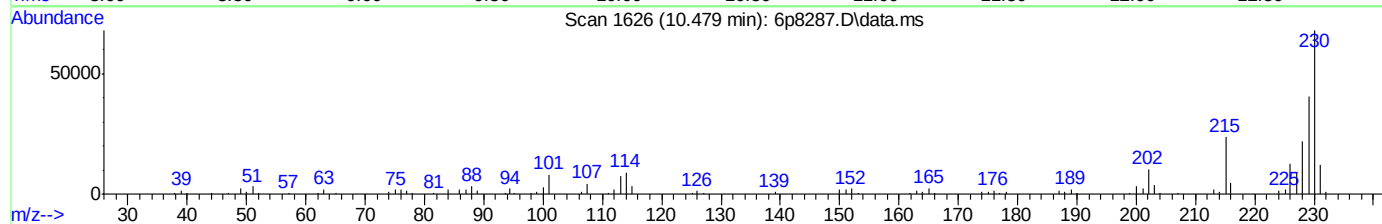
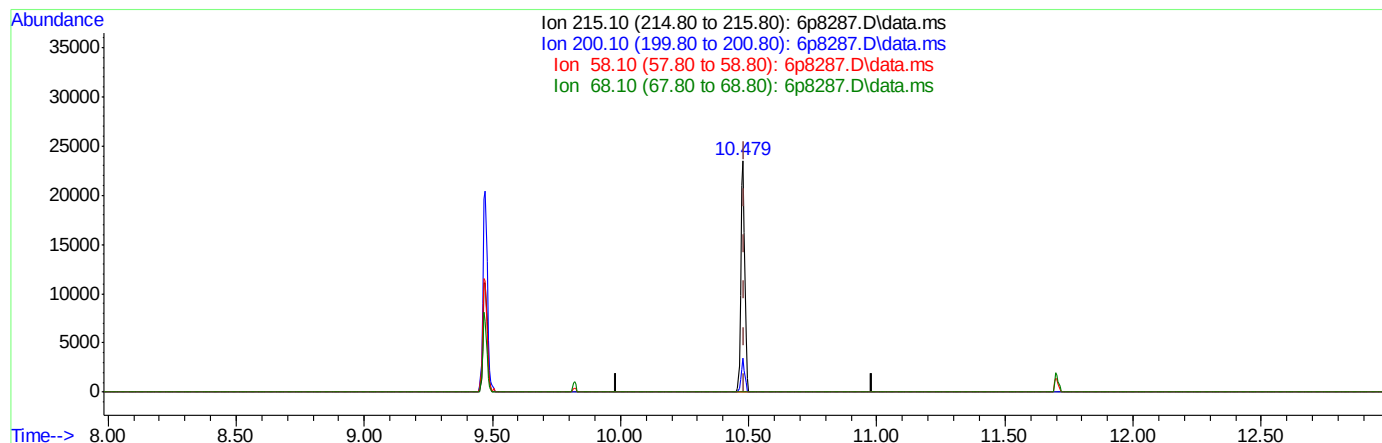
Supervisor approved: 07/02/14 15:01 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
Atrazine	1912-24-9		9.47	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\6p357\
Data File : 6p8287.D
Acq On : 26 Jun 2014 9:23 pm
Operator : samtap
Sample : ic358-5
Misc : op75816,e6p358
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 27 22:42:21 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Fri Jun 27 22:40:35 2014
Response via : Initial Calibration



TIC: 6p8287.D\data.ms

(105) Atrazine

10.479min (-0.005) 5.80ppb

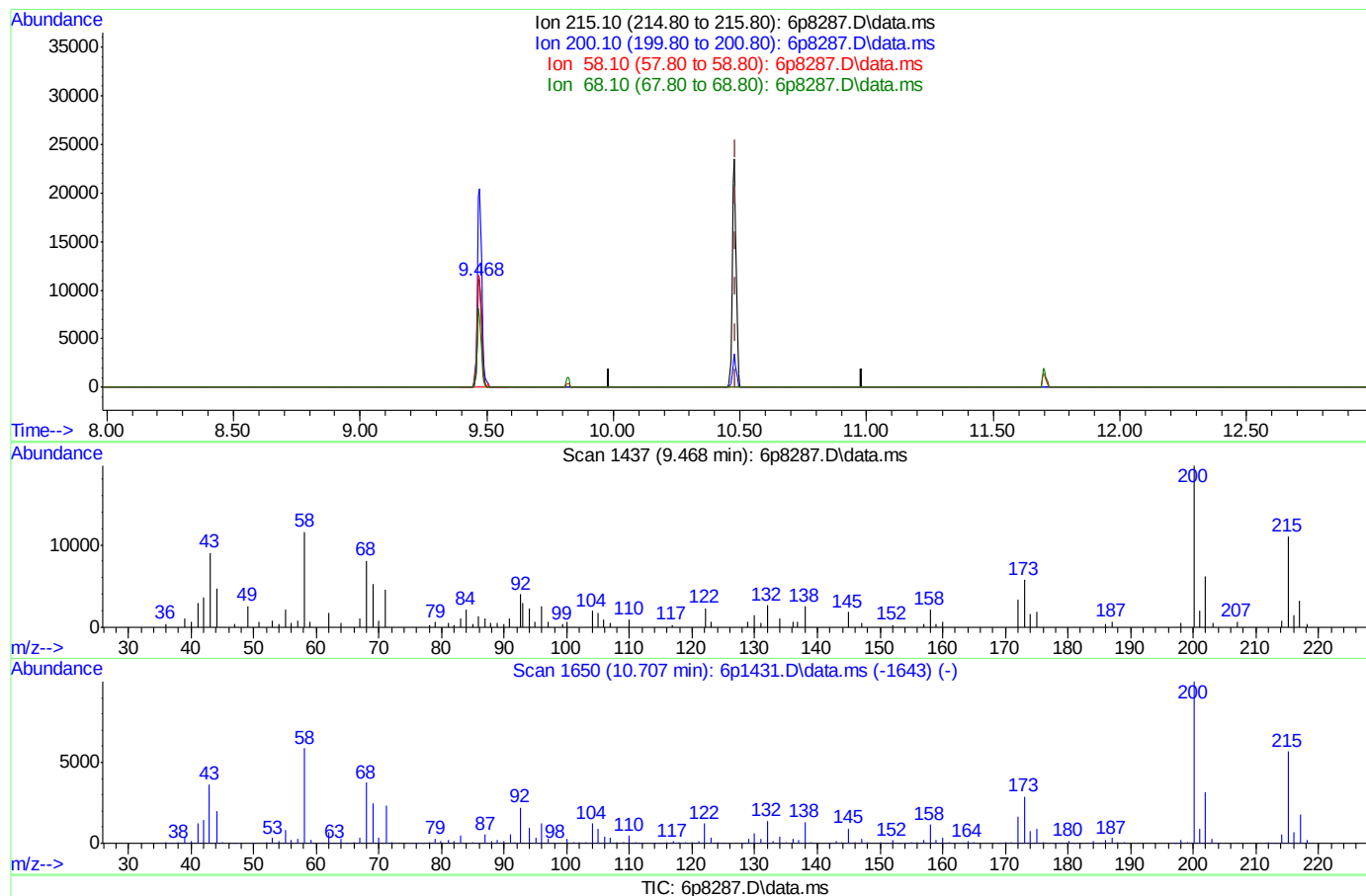
response 25844

Ion	Exp%	Act%
215.10	100	100
200.10	171.10	14.62#
58.10	117.80	0.00#
68.10	43.80	0.00#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\6p357\
Data File : 6p8287.D
Acq On : 26 Jun 2014 9:23 pm
Operator : samtap
Sample : ic358-5
Misc : op75816,e6p358
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 27 22:42:21 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Fri Jun 27 22:40:35 2014
Response via : Initial Calibration



(105) Atrazine

9.468min (-1.016) 2.85ppb m

response 12694

Ion	Exp%	Act%
215.10	100	100
200.10	171.10	177.21
58.10	117.80	104.40
68.10	43.80	73.15

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p357\
 Data File : 6p8288.D
 Acq On : 26 Jun 2014 9:51 pm
 Operator : samtap
 Sample : ic358-2
 Misc : op75816,e6p358
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 02 08:42:28 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Fri Jun 27 22:40:35 2014
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.525	152	241593	40.00	ppb	0.00
24) Naphthalene-d8	5.606	136	970048	40.00	ppb	0.00
47) Acenaphthene-d10	7.649	164	585024	40.00	ppb	-0.01
69) Phenanthrene-d10	9.821	188	986144	40.00	ppb	-0.01
83) Chrysene-d12	14.014	240	1046211	40.00	ppb	-0.02
92) Perylene-d12	16.132	264	971806	40.00	ppb	-0.01
102) 1,4-Dichlorobenzene-d4a	4.525	152	241593	40.00	ppb	0.00
104) Phenanthrene-d10a	9.821	188	986144	40.00	ppb	0.00
107) Chrysene-d12a	14.014	240	1046211	40.00	ppb	0.00
110) Acenaphthene-d10a	7.649	164	585024	40.00	ppb	0.00
112) Naphthalene-d8a	5.606	136	970048	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	10.473	230	37160	2.78	ppb	-0.01
Spiked Amount	50.000		Recovery	=	5.56%	
109) 1-chlorooctadecane	11.698	57	19166	2.01	ppb	0.00
Spiked Amount	50.000		Recovery	=	4.02%	
Target Compounds						Qvalue
103) Benzaldehyde	4.199	105	17061	2.46	ppb	98
105) Atrazine	9.468	215	6154m	1.30	ppb	
108) Benzidine	11.992	184	24864	1.93	ppb	79
111) 1,2,4,5-Tetrachloroben...	6.547	216	18015	2.19	ppb	# 30

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

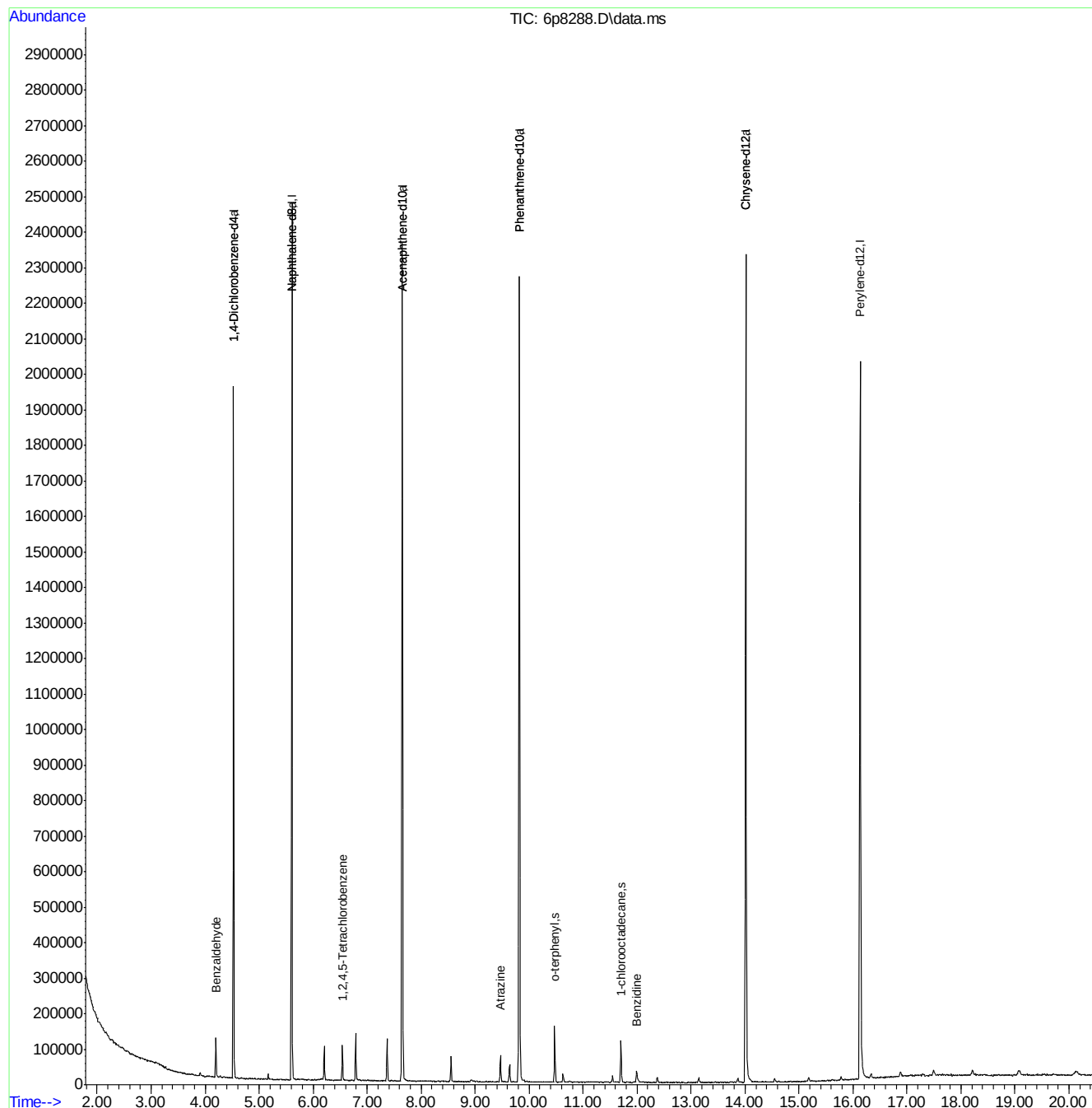
9.6.43

9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p357\
Data File : 6p8288.D
Acq On : 26 Jun 2014 9:51 pm
Operator : samtap
Sample : ic358-2
Misc : op75816,e6p358
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 02 08:42:28 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Fri Jun 27 22:40:35 2014
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: E6P358-IC358

Method: SW846 8270D

Lab FileID: 6P8288.D

Analyst approved: 07/02/14 13:09 Samta Patel

Injection Time: 06/26/14 21:51

Supervisor approved: 07/02/14 15:01 Nina Pandya

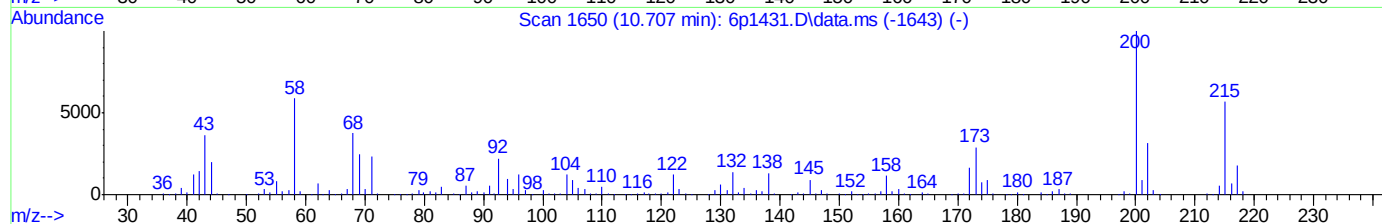
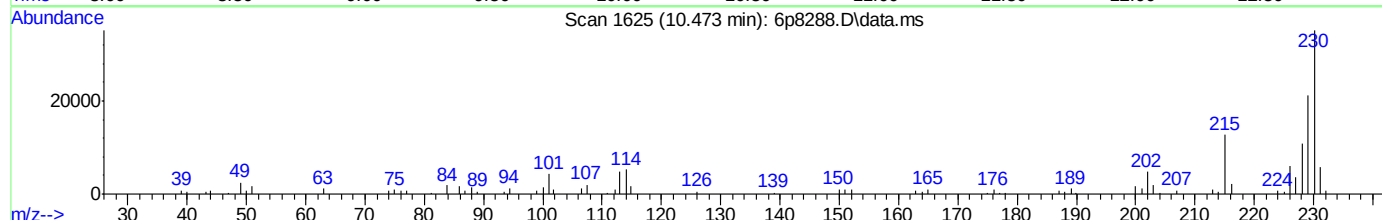
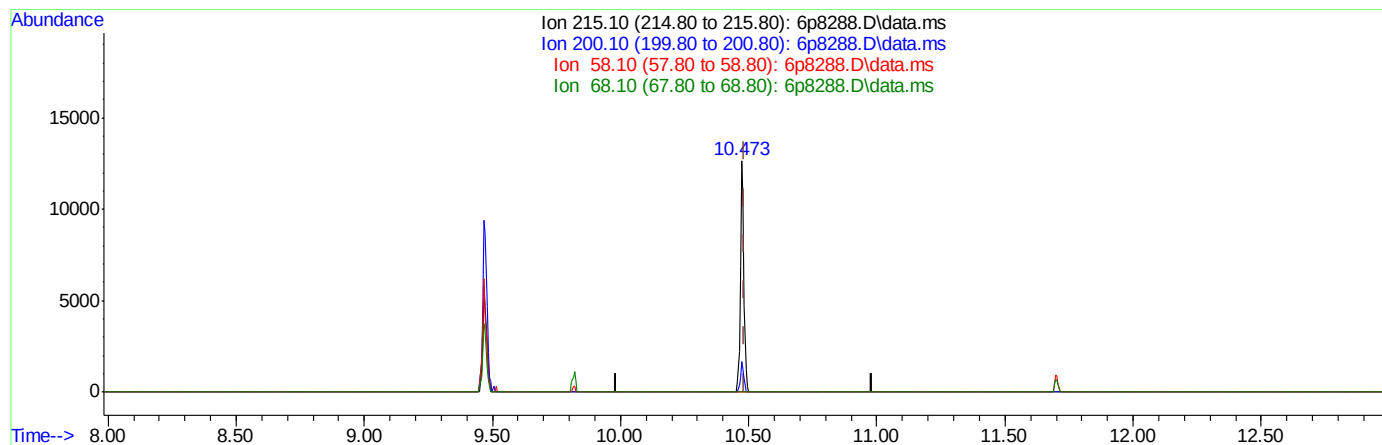
Parameter	CAS	Sig#	R.T. (min.)	Reason
Atrazine	1912-24-9		9.47	Poor instrument integration

9.6.43.1
9

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\6p357\
Data File : 6p8288.D
Acq On : 26 Jun 2014 9:51 pm
Operator : samtap
Sample : ic358-2
Misc : op75816,e6p358
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 27 22:42:54 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Fri Jun 27 22:40:35 2014
Response via : Initial Calibration



TIC: 6p8288.D\data.ms

(105) Atrazine

10.473min (-0.011) 2.66ppb

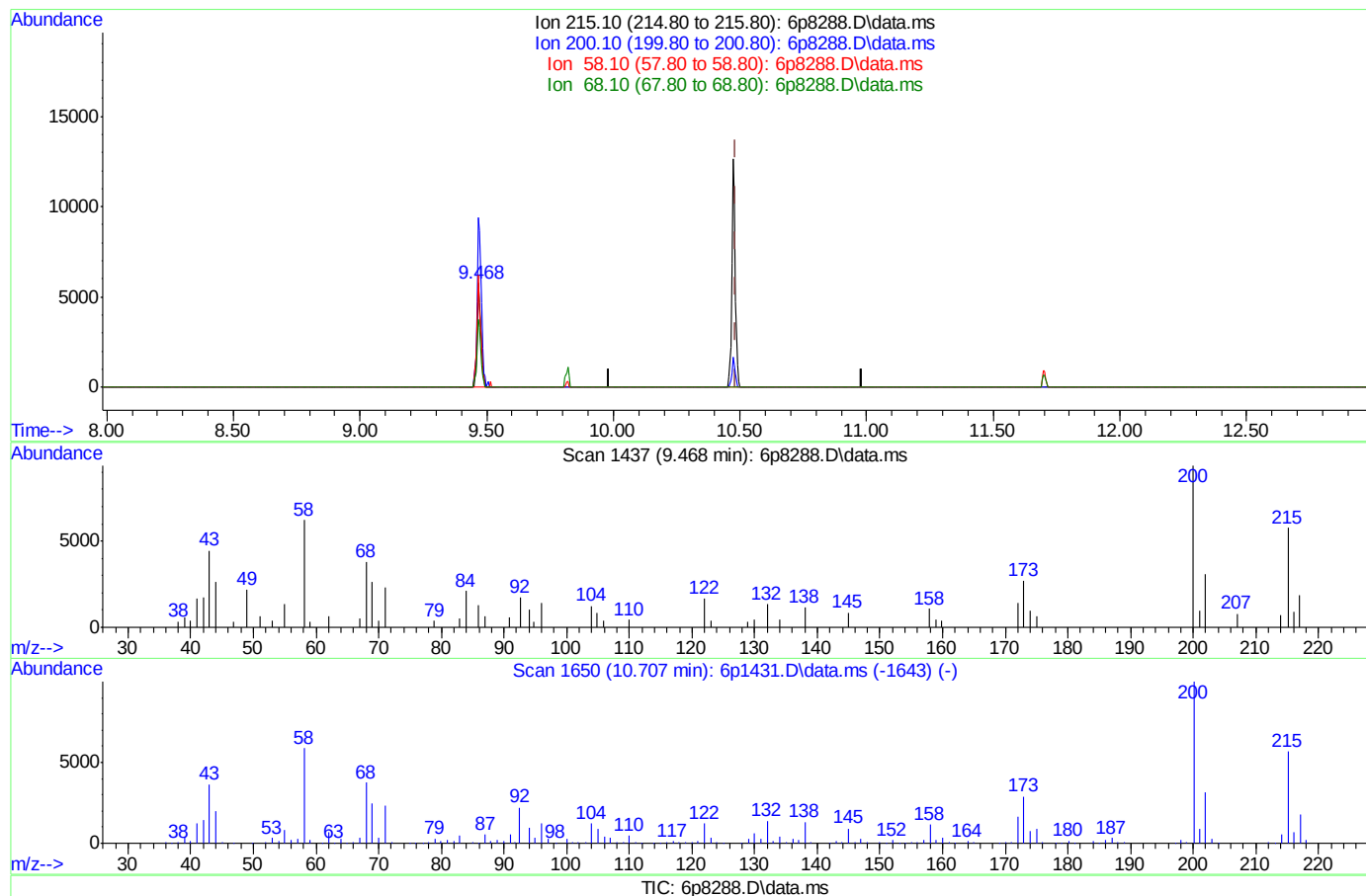
response 12555

Ion	Exp%	Act%
215.10	100	100
200.10	171.10	13.17#
58.10	117.80	0.00#
68.10	43.80	0.00#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\6p357\
Data File : 6p8288.D
Acq On : 26 Jun 2014 9:51 pm
Operator : samtap
Sample : ic358-2
Misc : op75816,e6p358
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 27 22:42:54 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Fri Jun 27 22:40:35 2014
Response via : Initial Calibration



(105) Atrazine

9.468min (-1.016) 1.30ppb m

response 6154

Ion	Exp%	Act%
215.10	100	100
200.10	171.10	162.36
58.10	117.80	107.76
68.10	43.80	65.58

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p357\
 Data File : 6p8289.D
 Acq On : 26 Jun 2014 10:19 pm
 Operator : samtap
 Sample : ic358-25
 Misc : op75816,e6p358
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jul 02 08:43:13 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Fri Jun 27 22:40:35 2014
 Response via : Initial Calibration

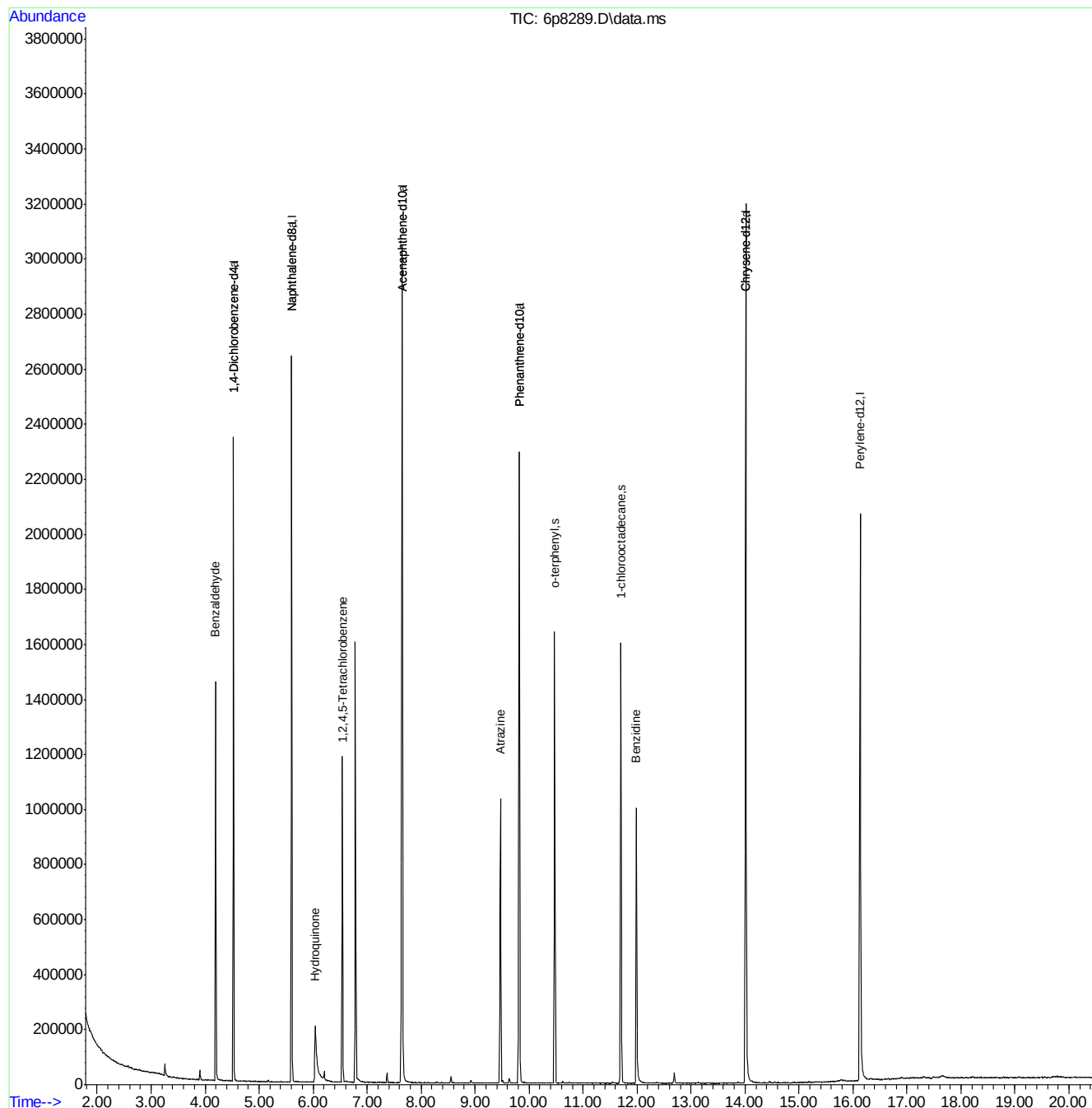
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.525	152	269291	40.00	ppb	0.00
24) Naphthalene-d8	5.600	136	1051192	40.00	ppb	-0.01
47) Acenaphthene-d10	7.649	164	619731	40.00	ppb	-0.01
69) Phenanthrene-d10	9.821	188	1047404	40.00	ppb	-0.01
83) Chrysene-d12	14.014	240	1075633	40.00	ppb	-0.02
92) Perylene-d12	16.132	264	1010402	40.00	ppb	-0.01
102) 1,4-Dichlorobenzene-d4a	4.525	152	269291	40.00	ppb	0.00
104) Phenanthrene-d10a	9.821	188	1047404	40.00	ppb	0.00
107) Chrysene-d12a	14.014	240	1075633	40.00	ppb	0.00
110) Acenaphthene-d10a	7.649	164	619731	40.00	ppb	0.00
112) Naphthalene-d8a	5.600	136	1051192	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	10.473	230	398969	28.07	ppb	-0.01
Spiked Amount	50.000		Recovery	=	56.14%	
109) 1-chlorooctadecane	11.698	57	253871	25.85	ppb	0.00
Spiked Amount	50.000		Recovery	=	51.70%	
Target Compounds						
103) Benzaldehyde	4.194	105	211775	27.44	ppb	Qvalue 96
105) Atrazine	9.473	215	80567m	16.05	ppb	
108) Benzidine	11.987	184	499395	37.68	ppb	79
111) 1,2,4,5-Tetrachloroben...	6.547	216	211465	24.23	ppb	# 35
113) Hydroquinone	6.039	110	201766	19.92	ppb	97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p357\
Data File : 6p8289.D
Acq On : 26 Jun 2014 10:19 pm
Operator : samtap
Sample : ic358-25
Misc : op75816,e6p358
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jul 02 08:43:13 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Fri Jun 27 22:40:35 2014
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number:

E6P358-IC358

Method:

SW846 8270D

Lab FileID:

6P8289.D

Analyst approved:

07/02/14 13:09 Samta Patel

Injection Time:

06/26/14 22:19

Supervisor approved:

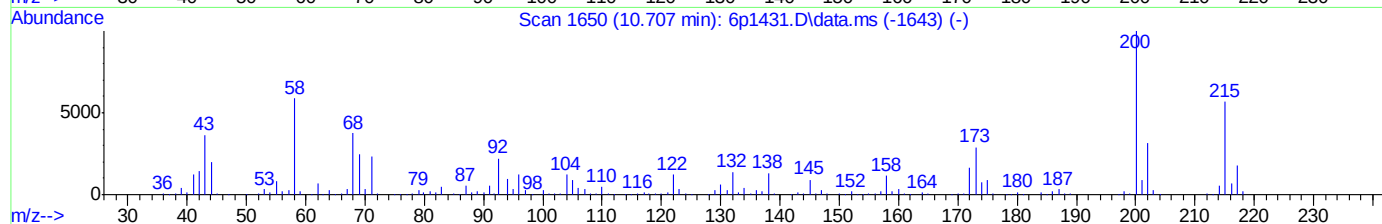
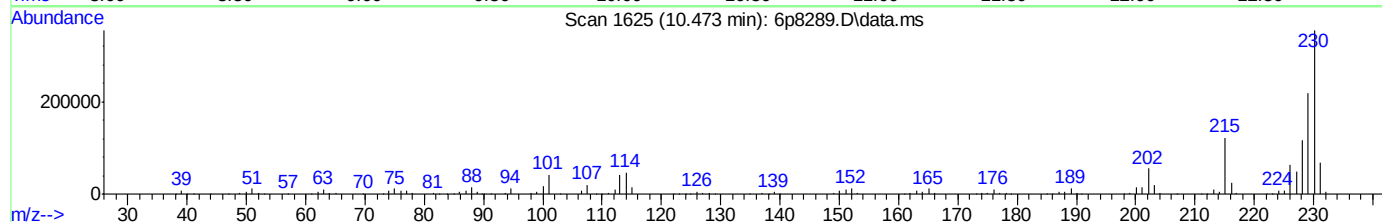
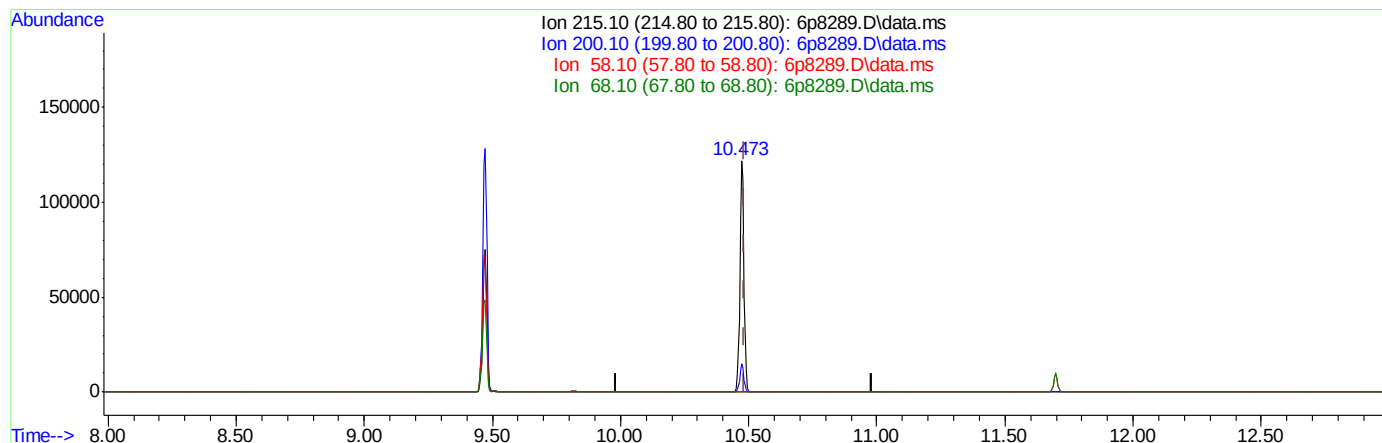
07/02/14 15:01 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
Atrazine	1912-24-9		9.47	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p357\
Data File : 6p8289.D
Acq On : 26 Jun 2014 10:19 pm
Operator : samtap
Sample : ic358-25
Misc : op75816,e6p358
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 27 22:43:38 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Fri Jun 27 22:40:35 2014
Response via : Initial Calibration



TIC: 6p8289.D\data.ms

(105) Atrazine

10.473min (-0.011) 28.15ppb

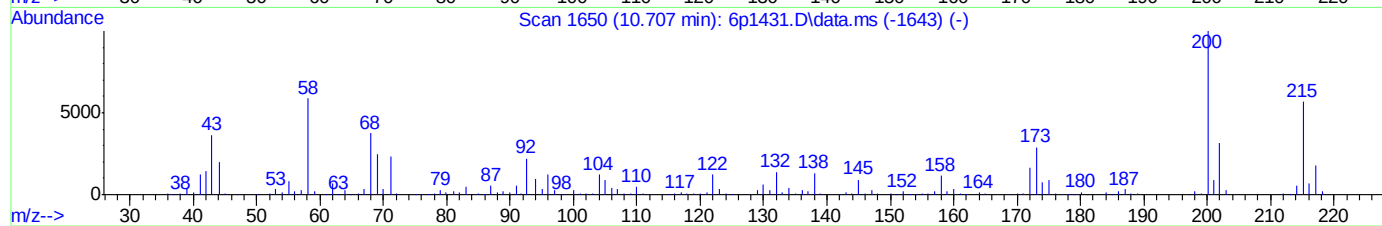
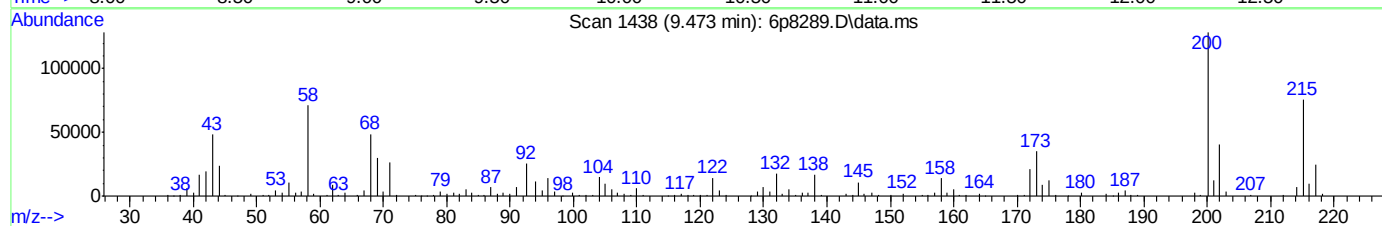
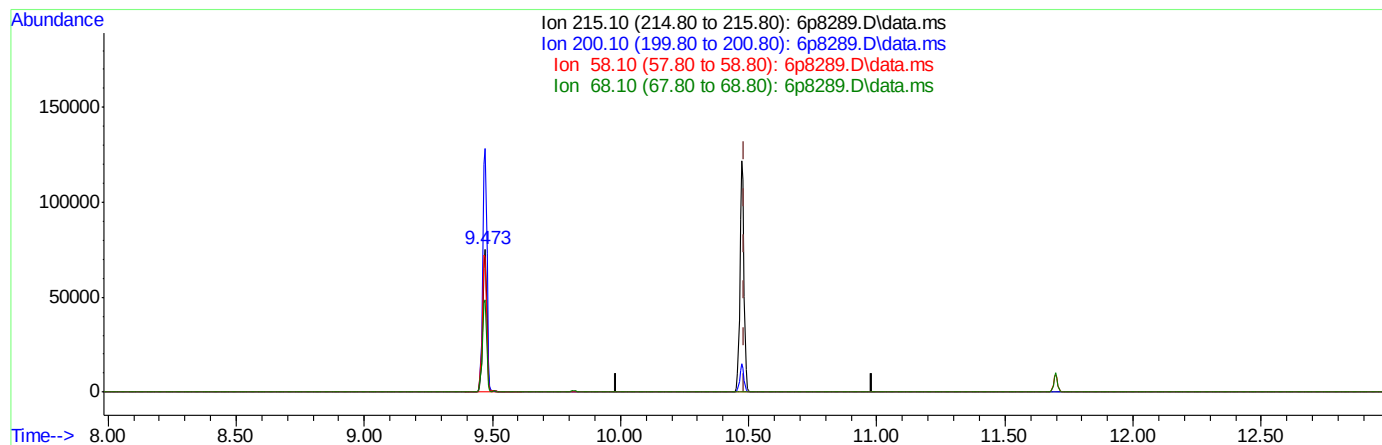
response 141291

Ion	Exp%	Act%
215.10	100	100
200.10	171.10	12.45#
58.10	117.80	0.00#
68.10	43.80	0.00#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\6p357\
Data File : 6p8289.D
Acq On : 26 Jun 2014 10:19 pm
Operator : samtap
Sample : ic358-25
Misc : op75816,e6p358
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 27 22:43:38 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Fri Jun 27 22:40:35 2014
Response via : Initial Calibration



(105) Atrazine

9.473min (-1.011) 16.05ppb m

response 80567

Ion	Exp%	Act%
215.10	100	100
200.10	171.10	170.41
58.10	117.80	94.01
68.10	43.80	64.47

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p357\
 Data File : 6p8290.D
 Acq On : 26 Jun 2014 10:47 pm
 Operator : samtap
 Sample : icv357-50
 Misc : op75816,e6p358
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jul 02 14:48:27 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Wed Jul 02 11:37:14 2014
 Response via : Initial Calibration

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

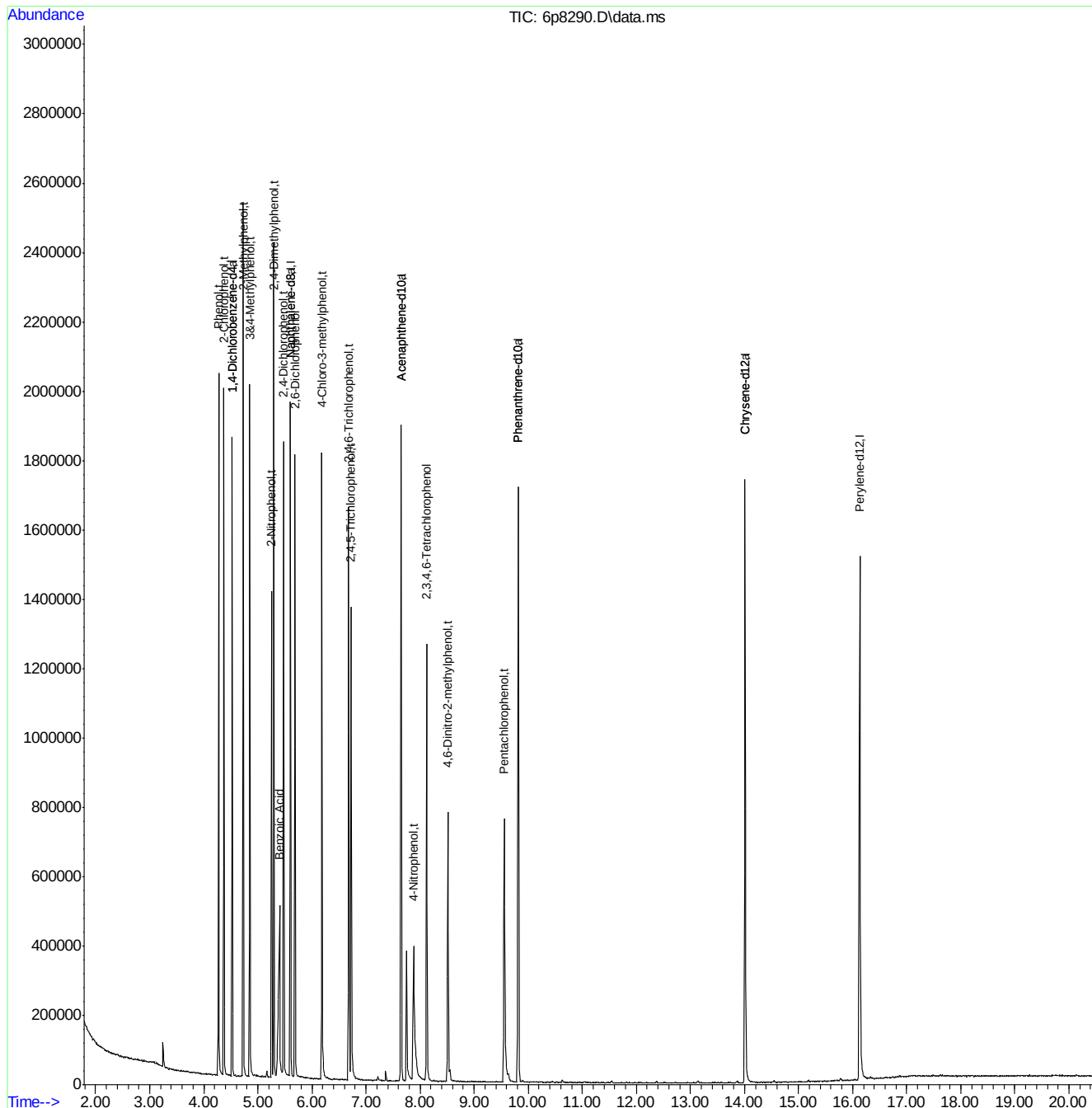
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.525	152	199912	40.00	ppb	0.00
24) Naphthalene-d8	5.600	136	780570	40.00	ppb	-0.01
47) Acenaphthene-d10	7.649	164	465353	40.00	ppb	-0.01
69) Phenanthrene-d10	9.815	188	749272	40.00	ppb	-0.02
83) Chrysene-d12	14.009	240	786081	40.00	ppb	-0.02
92) Perylene-d12	16.132	264	761680	40.00	ppb	-0.01
102) 1,4-Dichlorobenzene-d4a	4.525	152	199912	40.00	ppb	0.00
104) Phenanthrene-d10a	9.815	188	749272	40.00	ppb	0.00
106) Chrysene-d12a	14.009	240	786081	40.00	ppb	0.00
108) Acenaphthene-d10a	7.649	164	465353	40.00	ppb	0.00
110) Naphthalene-d8a	5.600	136	780570	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%	
Target Compounds						Qvalue
9) Phenol	4.274	94	493589	42.93	ppb	68
12) 2-Chlorophenol	4.370	128	353744	45.73	ppb	94
19) 2-Methylphenol	4.729	108	340714	48.84	ppb	98
21) 3&4-Methylphenol	4.852	108	359075	48.68	ppb	99
29) 2-Nitrophenol	5.253	139	186897	46.66	ppb	92
30) 2,4-Dimethylphenol	5.296	107	368338	54.47	ppb	98
31) Benzoic Acid	5.403	105	231923	42.12	ppb	98
33) 2,4-Dichlorophenol	5.472	162	290278	48.31	ppb	97
34) 2,6-Dichlorophenol	5.686	162	289029	48.66	ppb	100
43) 4-Chloro-3-methylphenol	6.183	107	331018	47.04	ppb	98
49) 2,4,6-Trichlorophenol	6.681	196	217949	49.27	ppb	96
50) 2,4,5-Trichlorophenol	6.724	196	235484	49.31	ppb	97
61) 4-Nitrophenol	7.879	109	96514	48.39	ppb	98
64) 2,3,4,6-Tetrachlorophenol	8.120	232	179464	47.84	ppb	96
70) 4,6-Dinitro-2-methylph...	8.515	198	123634	42.57	ppb	98
76) Pentachlorophenol	9.558	266	137880	49.11	ppb	97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p357\
Data File : 6p8290.D
Acq On : 26 Jun 2014 10:47 pm
Operator : samtap
Sample : icv357-50
Misc : op75816,e6p358
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jul 02 14:48:27 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Wed Jul 02 11:37:14 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p357\
 Data File : 6p8291.D
 Acq On : 26 Jun 2014 11:15 pm
 Operator : samtap
 Sample : icv357-50
 Misc : op75816,e6p358
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jul 02 13:46:48 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Wed Jul 02 11:37:14 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.525	152	225718	40.00	ppb	0.00
24) Naphthalene-d8	5.606	136	921424	40.00	ppb	0.00
47) Acenaphthene-d10	7.649	164	560309	40.00	ppb	-0.01
69) Phenanthrene-d10	9.815	188	909263	40.00	ppb	-0.02
83) Chrysene-d12	14.019	240	913409	40.00	ppb	-0.01
92) Perylene-d12	16.132	264	950024	40.00	ppb	-0.01
102) 1,4-Dichlorobenzene-d4a	4.525	152	225718	40.00	ppb	0.00
104) Phenanthrene-d10a	9.815	188	909263	40.00	ppb	0.00
106) Chrysene-d12a	14.019	240	913409	40.00	ppb	0.00
108) Acenaphthene-d10a	7.649	164	560309	40.00	ppb	0.00
110) Naphthalene-d8a	5.606	136	921424	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%	

Target Compounds

						Qvalue
4) N-Nitrosodimethylamine	2.290	74	262928	43.73	ppb	94
11) bis(2-Chloroethyl)ether	4.328	93	415793	44.85	ppb	100
14) 1,3-Dichlorobenzene	4.483	146	392520	40.80	ppb	97
15) 1,4-Dichlorobenzene	4.542	146	397473	41.03	ppb	99
17) 1,2-Dichlorobenzene	4.659	146	380802	41.49	ppb	99
20) 2,2'-oxybis(1-Chloropr...	4.739	121	133746	43.63	ppb	99
22) n-Nitroso-di-n-propyla...	4.841	70	307600	45.37	ppb	96
23) Hexachloroethane	4.927	201	140335	42.02	ppb	96
26) Nitrobenzene	4.980	77	465270	40.98	ppb	95
28) Isophorone	5.178	82	777392	40.35	ppb	99
32) bis(2-Chloroethoxy)met...	5.376	93	496550	45.58	ppb	100
36) 1,2,4-Trichlorobenzene	5.552	180	327477	40.97	ppb	99
38) Naphthalene	5.622	128	1057233	40.73	ppb	99
42) Hexachlorobutadiene	5.756	225	179149	41.96	ppb	99
48) Hexachlorocyclopentadiene	6.542	237	151734	37.04	ppb	100
52) 2-Chloronaphthalene	6.922	162	691301	39.95	ppb	100
55) Dimethylphthalate	7.317	163	788820	42.29	ppb	100
56) Acenaphthylene	7.451	152	935329	35.74	ppb	100
57) 2,6-Dinitrotoluene	7.382	165	176104	41.33	ppb	96
59) Acenaphthene	7.692	153	708347	43.40	ppb	99
63) 2,4-Dinitrotoluene	7.933	165	237252	41.97	ppb	85
65) Diethylphthalate	8.312	149	759818	41.28	ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p357\
 Data File : 6p8291.D
 Acq On : 26 Jun 2014 11:15 pm
 Operator : samtap
 Sample : icv357-50
 Misc : op75816,e6p358
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jul 02 13:46:48 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Wed Jul 02 11:37:14 2014
 Response via : Initial Calibration

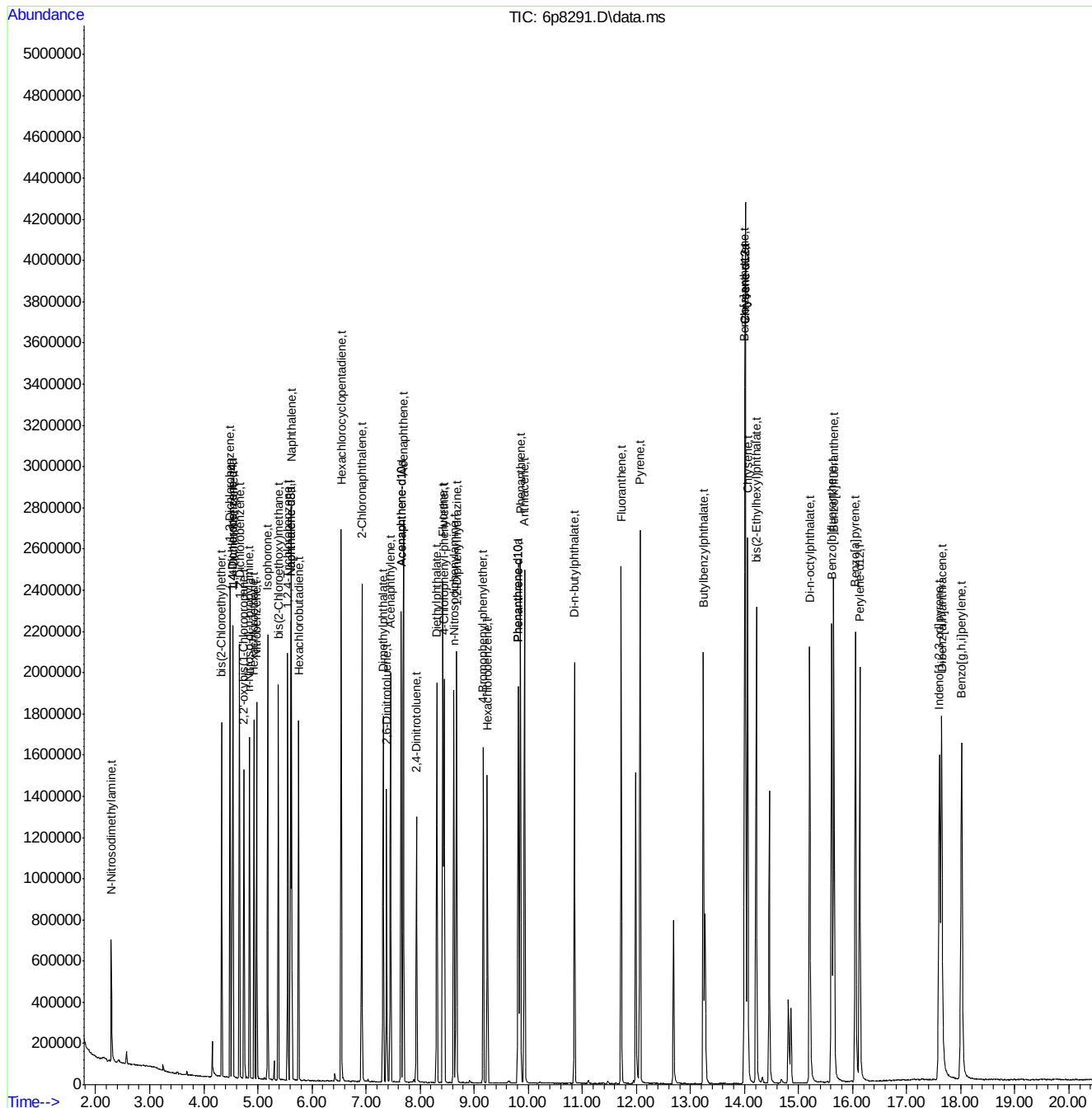
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66) Fluorene	8.419	166	826177	42.18	ppb	97
67) 4-Chlorophenyl-phenyle...	8.446	204	398546	43.16	ppb	98
71) n-Nitrosodiphenylamine	8.623	169	555518	42.51	ppb	99
72) 1,2-Diphenylhydrazine	8.676	77	990617	43.16	ppb	99
74) 4-Bromophenyl-phenylether	9.168	248	223370	44.49	ppb	98
75) Hexachlorobenzene	9.243	284	244830	41.12	ppb	94
77) Phenanthrene	9.853	178	1148357	41.13	ppb	99
78) Anthracene	9.933	178	1164260	41.74	ppb	98
80) Di-n-butylphthalate	10.853	149	1303888	43.77	ppb	100
81) Fluoranthene	11.719	202	1297673	42.14	ppb	99
84) Pyrene	12.067	202	1383331	43.78	ppb	98
87) Butylbenzylphthalate	13.238	149	596613	45.95	ppb	98
88) Benzo[a]anthracene	14.003	228	1161861	41.94	ppb	99
90) Chrysene	14.057	228	1238365	44.79	ppb	99
91) bis(2-Ethylhexyl)phtha...	14.217	149	825387	46.89	ppb	96
93) Di-n-octylphthalate	15.201	149	1455904	46.25	ppb	99
94) Benzo[b]fluoranthene	15.613	252	1305647	42.49	ppb	97
95) Benzo[k]fluoranthene	15.651	252	1326208	42.03	ppb	97
96) Benzo[a]pyrene	16.052	252	1224366	42.84	ppb	98
97) Indeno[1,2,3-cd]pyrene	17.603	276	1184843	43.90	ppb	96
99) Dibenz[a,h]anthracene	17.646	278	1316042	45.79	ppb	98
101) Benzo[g,h,i]perylene	18.015	276	1332401	43.76	ppb	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p357\
Data File : 6p8291.D
Acq On : 26 Jun 2014 11:15 pm
Operator : samtap
Sample : icv357-50
Misc : op75816,e6p358
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jul 02 13:46:48 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Wed Jul 02 11:37:14 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p357\
 Data File : 6p8291A.D
 Acq On : 26 Jun 2014 11:15 pm
 Operator : samtap
 Sample : icv358-50
 Misc : op75816,e6p358
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jul 02 13:37:54 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Wed Jul 02 11:37:14 2014
 Response via : Initial Calibration

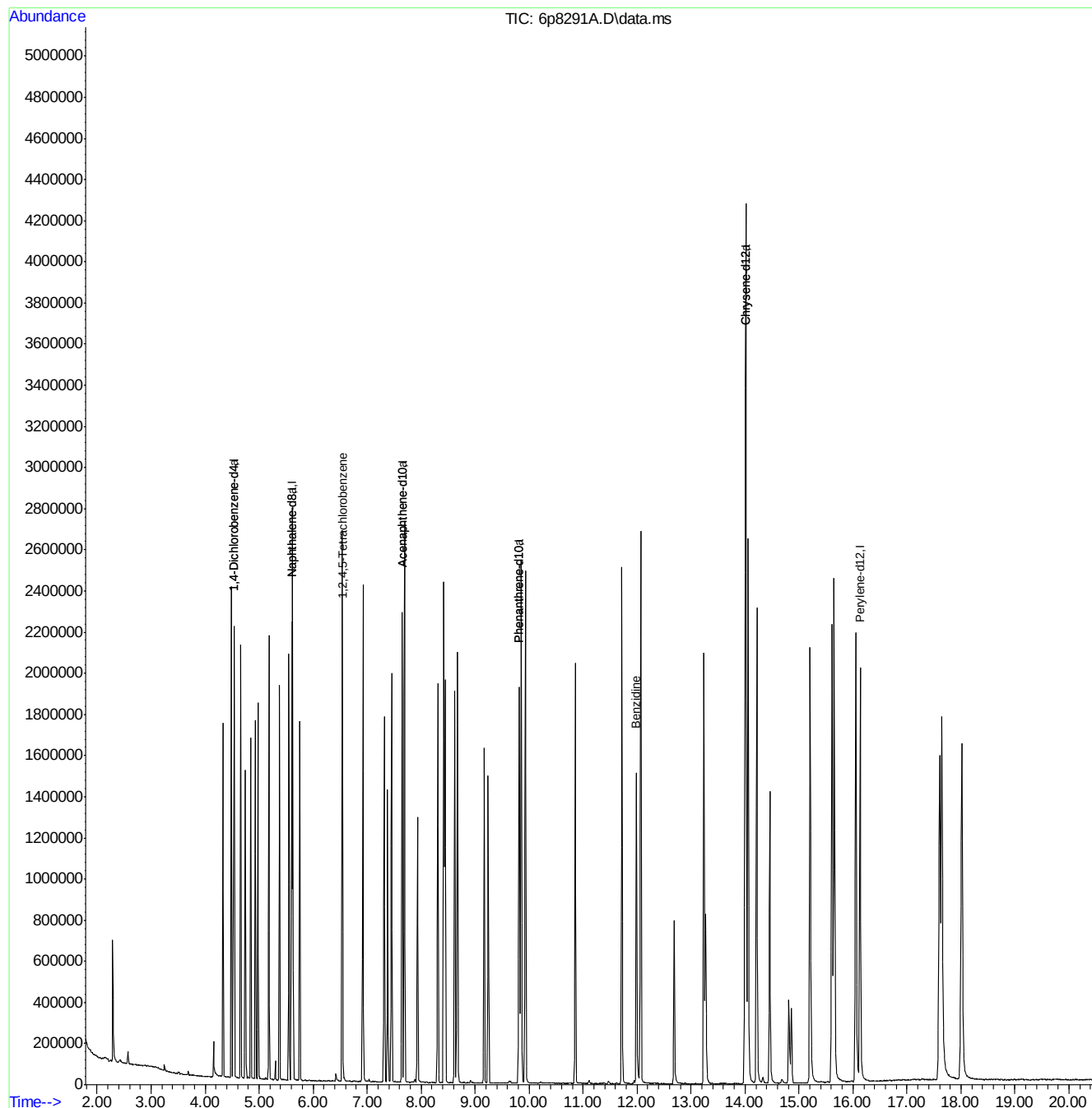
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.525	152	225718	40.00	ppb	0.00
24) Naphthalene-d8	5.606	136	921424	40.00	ppb	0.00
47) Acenaphthene-d10	7.649	164	560309	40.00	ppb	-0.01
69) Phenanthrene-d10	9.815	188	909263	40.00	ppb	-0.02
83) Chrysene-d12	14.019	240	913409	40.00	ppb	-0.01
92) Perylene-d12	16.132	264	950024	40.00	ppb	-0.01
102) 1,4-Dichlorobenzene-d4a	4.525	152	225718	40.00	ppb	0.00
104) Phenanthrene-d10a	9.815	188	909263	40.00	ppb	0.00
106) Chrysene-d12a	14.019	240	913409	40.00	ppb	0.00
108) Acenaphthene-d10a	7.649	164	560309	40.00	ppb	0.00
110) Naphthalene-d8a	5.606	136	921424	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%	
Target Compounds						
107) Benzidine	11.987	184	786944	56.05	ppb	Qvalue 79
109) 1,2,4,5-Tetrachloroben...	6.547	216	319169	39.66	ppb	# 34

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p357\
Data File : 6p8291A.D
Acq On : 26 Jun 2014 11:15 pm
Operator : samtap
Sample : icv358-50
Misc : op75816,e6p358
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jul 02 13:37:54 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Wed Jul 02 11:37:14 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p357\
 Data File : 6p8292a.D
 Acq On : 26 Jun 2014 11:44 pm
 Operator : samtap
 Sample : icv358-50
 Misc : op75816,e6p358
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jul 02 13:44:15 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Wed Jul 02 11:37:14 2014
 Response via : Initial Calibration

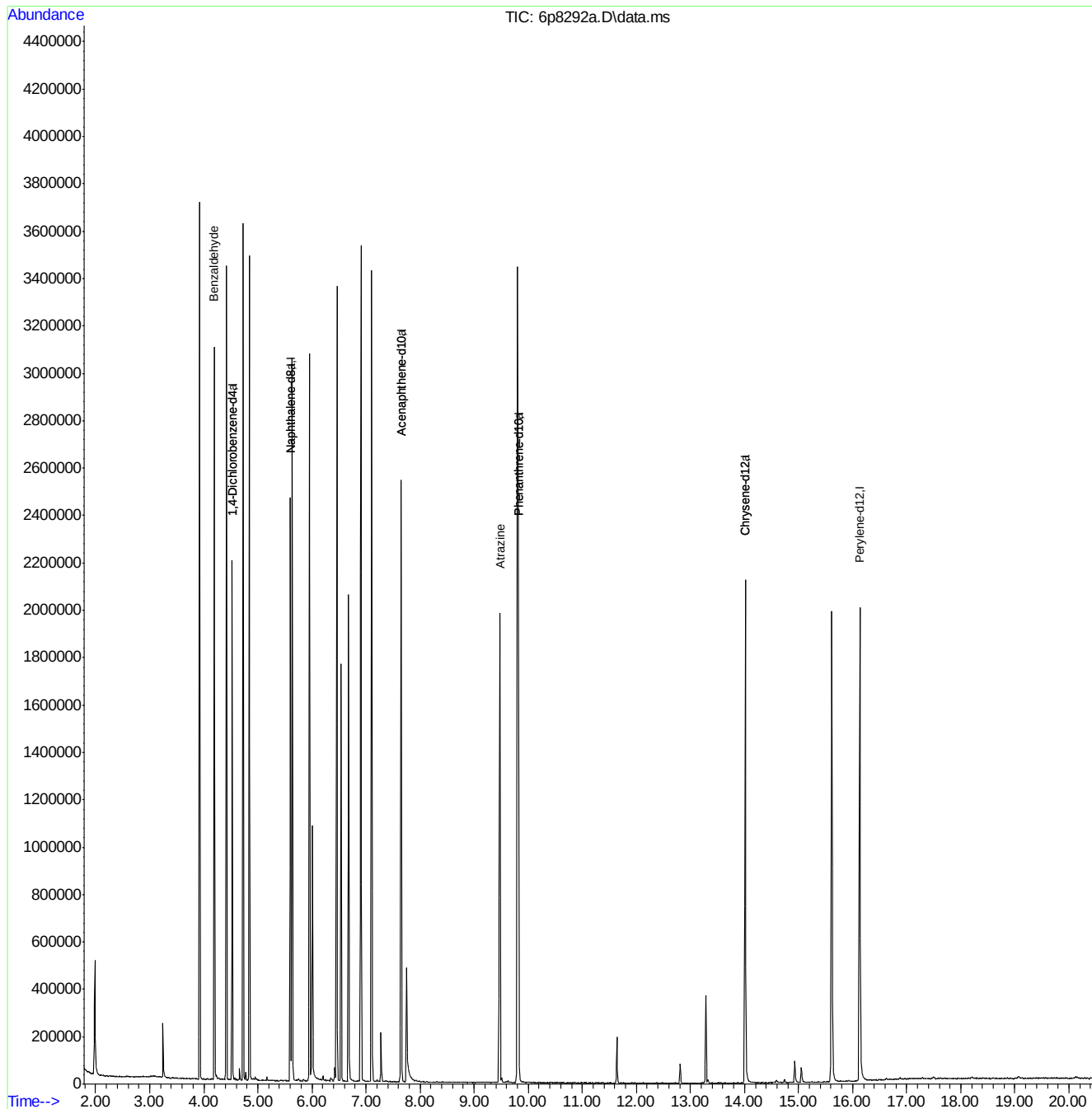
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.525	152	248067	40.00	ppb	0.00
24) Naphthalene-d8	5.600	136	999877	40.00	ppb	-0.01
47) Acenaphthene-d10	7.649	164	611151	40.00	ppb	-0.01
69) Phenanthrene-d10	9.820	188	972290	40.00	ppb	-0.01
83) Chrysene-d12	14.014	240	1046214	40.00	ppb	-0.02
92) Perylene-d12	16.132	264	948354	40.00	ppb	-0.01
102) 1,4-Dichlorobenzene-d4a	4.525	152	248067	40.00	ppb	0.00
104) Phenanthrene-d10a	9.820	188	972290	40.00	ppb	0.00
106) Chrysene-d12a	14.014	240	1046214	40.00	ppb	0.00
108) Acenaphthene-d10a	7.649	164	611151	40.00	ppb	0.00
110) Naphthalene-d8a	5.600	136	999877	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%	
Target Compounds						
103) Benzaldehyde	4.194	105	427401	53.72	ppb	96
105) Atrazine	9.478	215	162823	56.66	ppb	85

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p357\
Data File : 6p8292a.D
Acq On : 26 Jun 2014 11:44 pm
Operator : samtap
Sample : icv358-50
Misc : op75816,e6p358
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jul 02 13:44:15 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Wed Jul 02 11:37:14 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p357\
 Data File : 6p8292B.D
 Acq On : 26 Jun 2014 11:44 pm
 Operator : samtap
 Sample : icv357-50
 Misc : op75816,e6p358
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jul 02 14:47:05 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Wed Jul 02 11:37:14 2014
 Response via : Initial Calibration

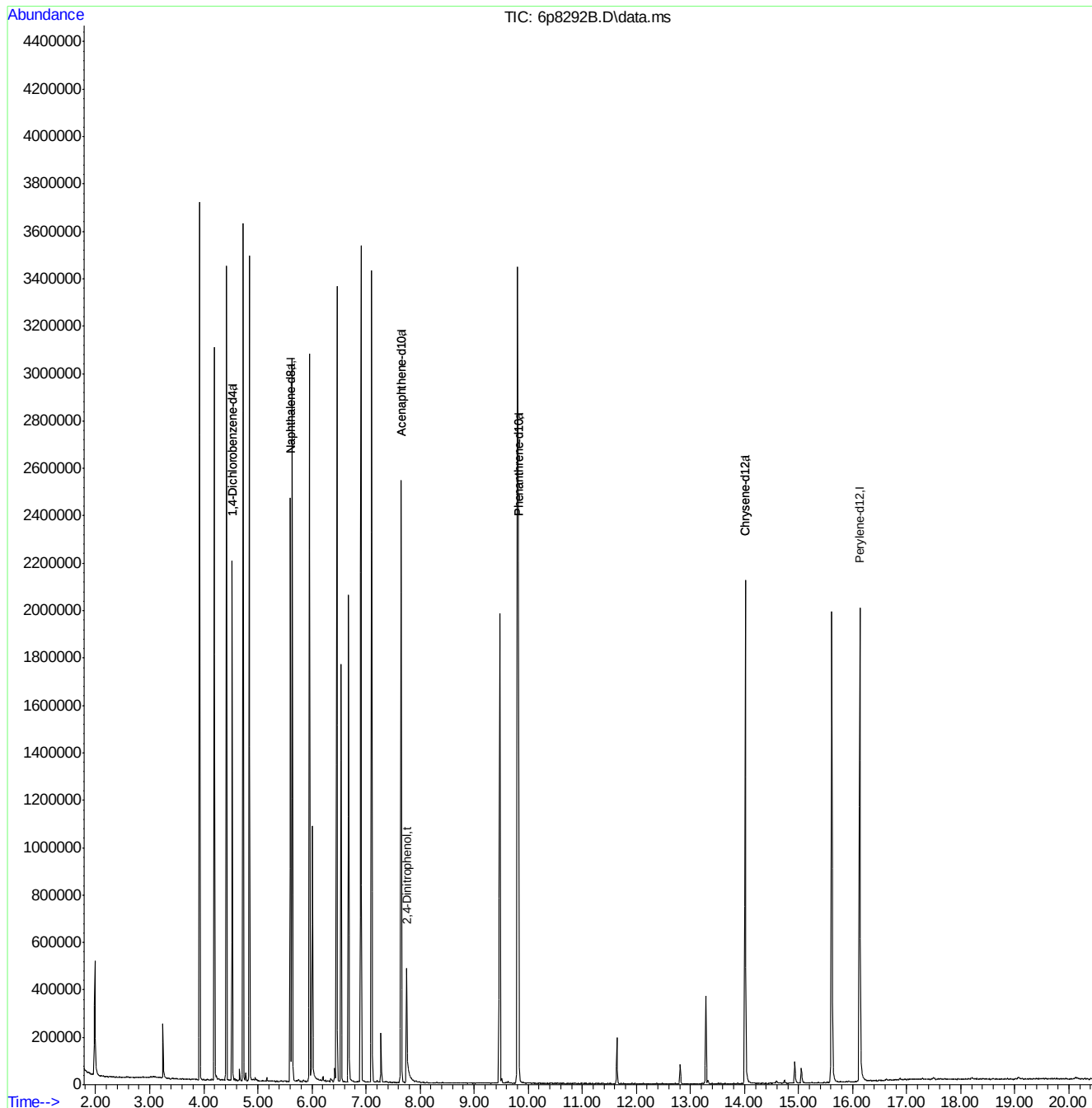
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.525	152	248067	40.00	ppb	0.00
24) Naphthalene-d8	5.600	136	999877	40.00	ppb	-0.01
47) Acenaphthene-d10	7.649	164	611151	40.00	ppb	-0.01
69) Phenanthrene-d10	9.820	188	972290	40.00	ppb	-0.01
83) Chrysene-d12	14.014	240	1046214	40.00	ppb	-0.02
92) Perylene-d12	16.132	264	948354	40.00	ppb	-0.01
102) 1,4-Dichlorobenzene-d4a	4.525	152	248067	40.00	ppb	0.00
104) Phenanthrene-d10a	9.820	188	972290	40.00	ppb	0.00
106) Chrysene-d12a	14.014	240	1046214	40.00	ppb	0.00
108) Acenaphthene-d10a	7.649	164	611151	40.00	ppb	0.00
110) Naphthalene-d8a	5.600	136	999877	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%	
Target Compounds						
60) 2,4-Dinitrophenol	7.750	184	103742	39.47	ppb	Qvalue 98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p357\
Data File : 6p8292B.D
Acq On : 26 Jun 2014 11:44 pm
Operator : samtap
Sample : icv357-50
Misc : op75816,e6p358
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jul 02 14:47:05 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Wed Jul 02 11:37:14 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p357\
 Data File : 6p8293.D
 Acq On : 27 Jun 2014 12:12 am
 Operator : samtap
 Sample : icv357-50
 Misc : op75816,e6p358
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jul 02 13:45:28 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Fri Jun 27 22:48:40 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.525	152	218226	40.00	ppb	0.00
24) Naphthalene-d8	5.600	136	870133	40.00	ppb	-0.01
47) Acenaphthene-d10	7.649	164	524457	40.00	ppb	-0.01
69) Phenanthrene-d10	9.815	188	872376	40.00	ppb	-0.02
83) Chrysene-d12	14.008	240	906237	40.00	ppb	-0.02
92) Perylene-d12	16.127	264	832897	40.00	ppb	-0.02
102) 1,4-Dichlorobenzene-d4a	4.525	152	218226	40.00	ppb	0.00
104) Phenanthrene-d10a	9.815	188	872376	40.00	ppb	0.00
107) Chrysene-d12a	14.008	240	906237	40.00	ppb	0.00
110) Acenaphthene-d10a	7.649	164	524457	40.00	ppb	0.00
112) Naphthalene-d8a	5.600	136	870133	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.525	112	358464	42.82	ppb	0.00
Spiked Amount	50.000		Recovery	=	85.64%	
8) Phenol-d5	4.263	99	440777	42.07	ppb	-0.01
Spiked Amount	50.000		Recovery	=	84.14%	
25) Nitrobenzene-d5	4.964	82	403335	41.36	ppb	-0.01
Spiked Amount	50.000		Recovery	=	82.72%	
51) 2-Fluorobiphenyl	6.782	172	713386	41.25	ppb	-0.02
Spiked Amount	50.000		Recovery	=	82.50%	
73) 2,4,6-Tribromophenol	8.778	330	95522	41.17	ppb	-0.01
Spiked Amount	50.000		Recovery	=	82.34%	
86) Terphenyl-d14	12.393	244	855750	42.20	ppb	-0.01
Spiked Amount	50.000		Recovery	=	84.40%	
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%	

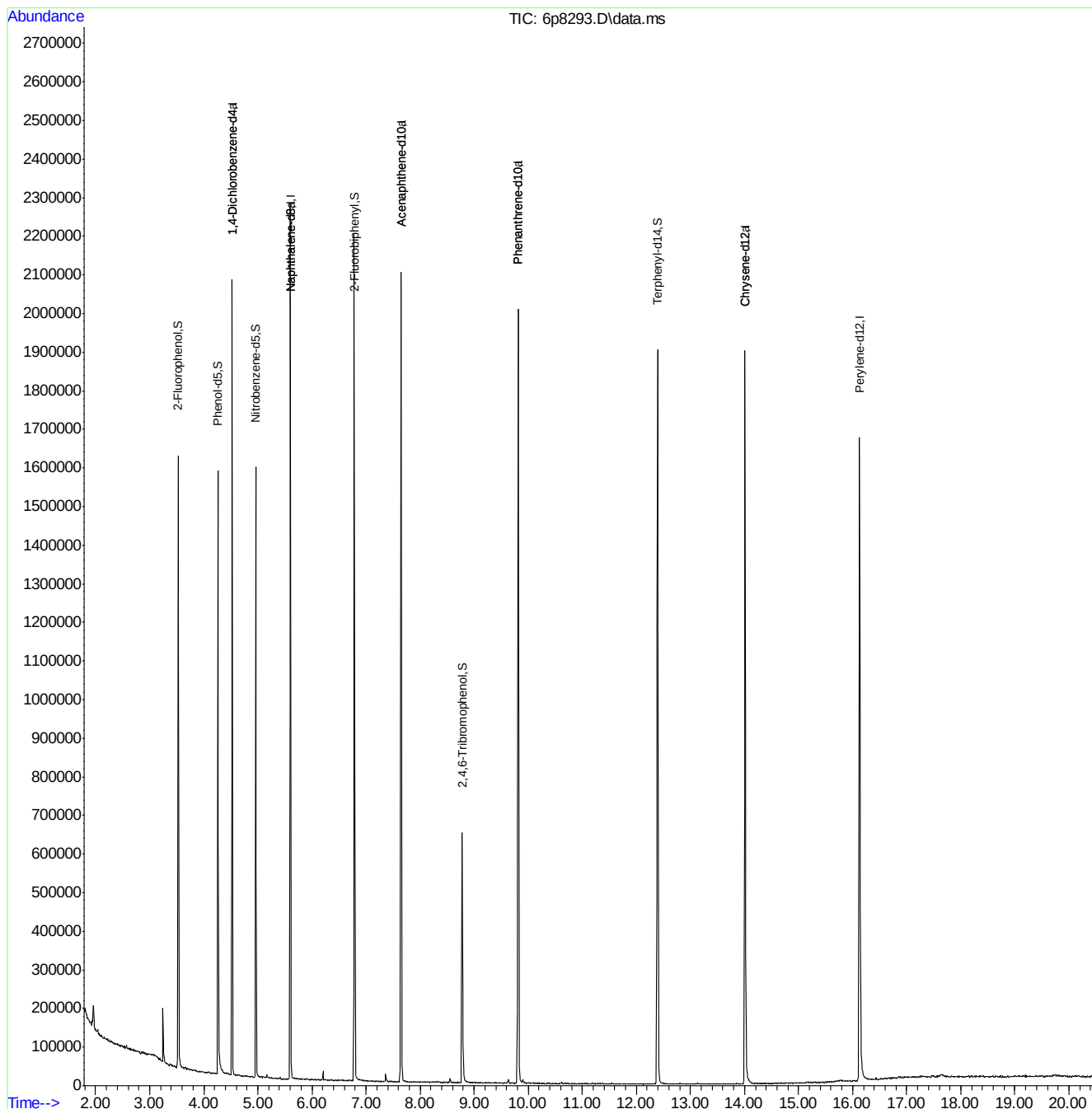
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p357\
Data File : 6p8293.D
Acq On : 27 Jun 2014 12:12 am
Operator : samtap
Sample : icv357-50
Misc : op75816,e6p358
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jul 02 13:45:28 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Fri Jun 27 22:48:40 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p357\
 Data File : 6p8294.D
 Acq On : 27 Jun 2014 12:40 am
 Operator : samtap
 Sample : icv357-50
 Misc : op75816,e6p358
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jul 02 13:47:35 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Fri Jun 27 22:48:40 2014
 Response via : Initial Calibration

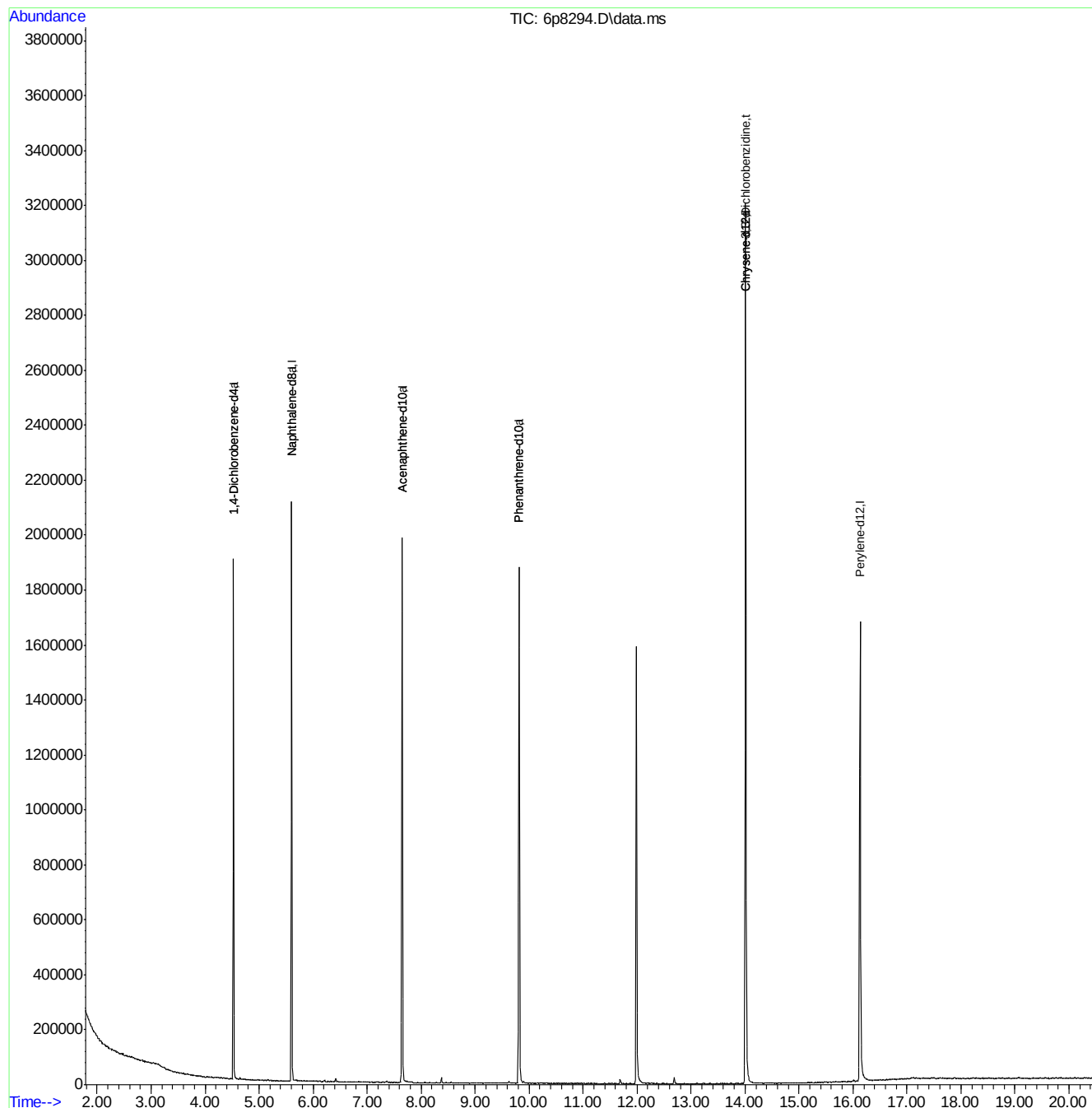
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.525	152	208829	40.00	ppb	0.00
24) Naphthalene-d8	5.600	136	817418	40.00	ppb	-0.01
47) Acenaphthene-d10	7.649	164	502373	40.00	ppb	-0.01
69) Phenanthrene-d10	9.815	188	836267	40.00	ppb	-0.02
83) Chrysene-d12	14.008	240	876338	40.00	ppb	-0.02
92) Perylene-d12	16.132	264	870377	40.00	ppb	-0.01
102) 1,4-Dichlorobenzene-d4a	4.525	152	208829	40.00	ppb	0.00
104) Phenanthrene-d10a	9.815	188	836267	40.00	ppb	0.00
107) Chrysene-d12a	14.008	240	876338	40.00	ppb	0.00
110) Acenaphthene-d10a	7.649	164	502373	40.00	ppb	0.00
112) Naphthalene-d8a	5.600	136	817418	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						
89) 3,3'-Dichlorobenzidine	14.014	252	417878	43.65	ppb	Qvalue 99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p357\
Data File : 6p8294.D
Acq On : 27 Jun 2014 12:40 am
Operator : samtap
Sample : icv357-50
Misc : op75816,e6p358
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jul 02 13:47:35 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Fri Jun 27 22:48:40 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p357\
 Data File : 6p8294a.D
 Acq On : 27 Jun 2014 12:40 am
 Operator : samtap
 Sample : icv358-50
 Misc : op75816,e6p358
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jul 02 13:49:12 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Wed Jul 02 11:37:14 2014
 Response via : Initial Calibration

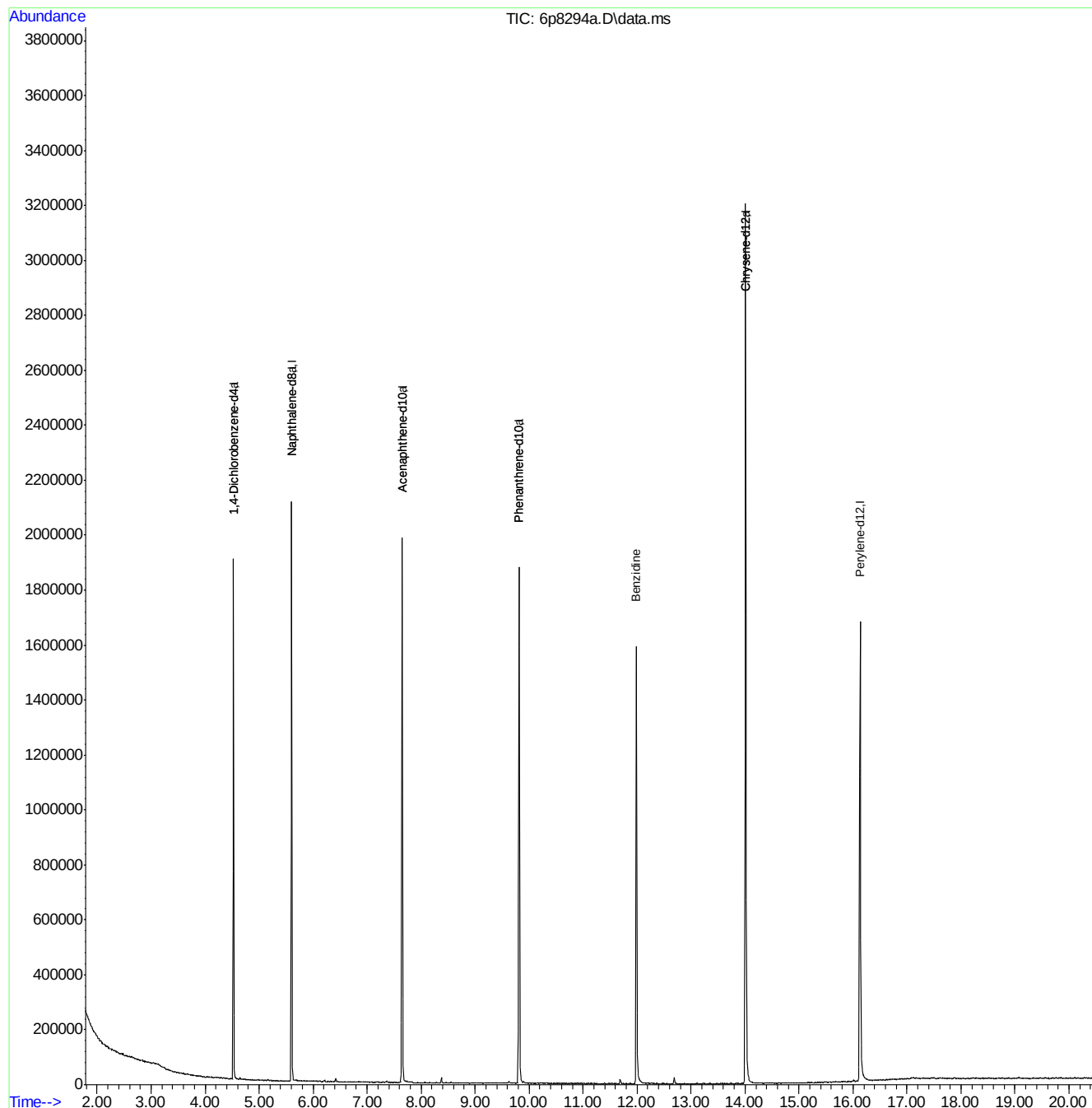
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.525	152	208829	40.00	ppb	0.00
24) Naphthalene-d8	5.600	136	817418	40.00	ppb	-0.01
47) Acenaphthene-d10	7.649	164	502373	40.00	ppb	-0.01
69) Phenanthrene-d10	9.815	188	836267	40.00	ppb	-0.02
83) Chrysene-d12	14.008	240	876338	40.00	ppb	-0.02
92) Perylene-d12	16.132	264	870377	40.00	ppb	-0.01
102) 1,4-Dichlorobenzene-d4a	4.525	152	208829	40.00	ppb	0.00
104) Phenanthrene-d10a	9.815	188	836267	40.00	ppb	0.00
106) Chrysene-d12a	14.008	240	876338	40.00	ppb	0.00
108) Acenaphthene-d10a	7.649	164	502373	40.00	ppb	0.00
110) Naphthalene-d8a	5.600	136	817418	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%	
Target Compounds						
107) Benzidine	11.987	184	782206	58.07	ppb	Qvalue 79

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p357\
Data File : 6p8294a.D
Acq On : 27 Jun 2014 12:40 am
Operator : samtap
Sample : icv358-50
Misc : op75816,e6p358
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jul 02 13:49:12 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Wed Jul 02 11:37:14 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p357\
 Data File : 6p8295.D
 Acq On : 27 Jun 2014 1:08 am
 Operator : samtap
 Sample : icv358-50
 Misc : op75816,e6p358
 ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jul 02 13:50:12 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Fri Jun 27 22:48:40 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.525	152	241183	40.00	ppb	0.00
24) Naphthalene-d8	5.601	136	933869	40.00	ppb	-0.01
47) Acenaphthene-d10	7.644	164	566887	40.00	ppb	-0.02
69) Phenanthrene-d10	9.815	188	936559	40.00	ppb	-0.02
83) Chrysene-d12	14.009	240	1017637	40.00	ppb	-0.02
92) Perylene-d12	16.132	264	981699	40.00	ppb	-0.01
102) 1,4-Dichlorobenzene-d4a	4.525	152	241183	40.00	ppb	0.00
104) Phenanthrene-d10a	9.815	188	936559	40.00	ppb	0.00
107) Chrysene-d12a	14.009	240	1017637	40.00	ppb	0.00
110) Acenaphthene-d10a	7.644	164	566887	40.00	ppb	-0.01
112) Naphthalene-d8a	5.601	136	933869	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						
113) Hydroquinone	6.023	110	496522	63.72	ppb	Qvalue 95

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

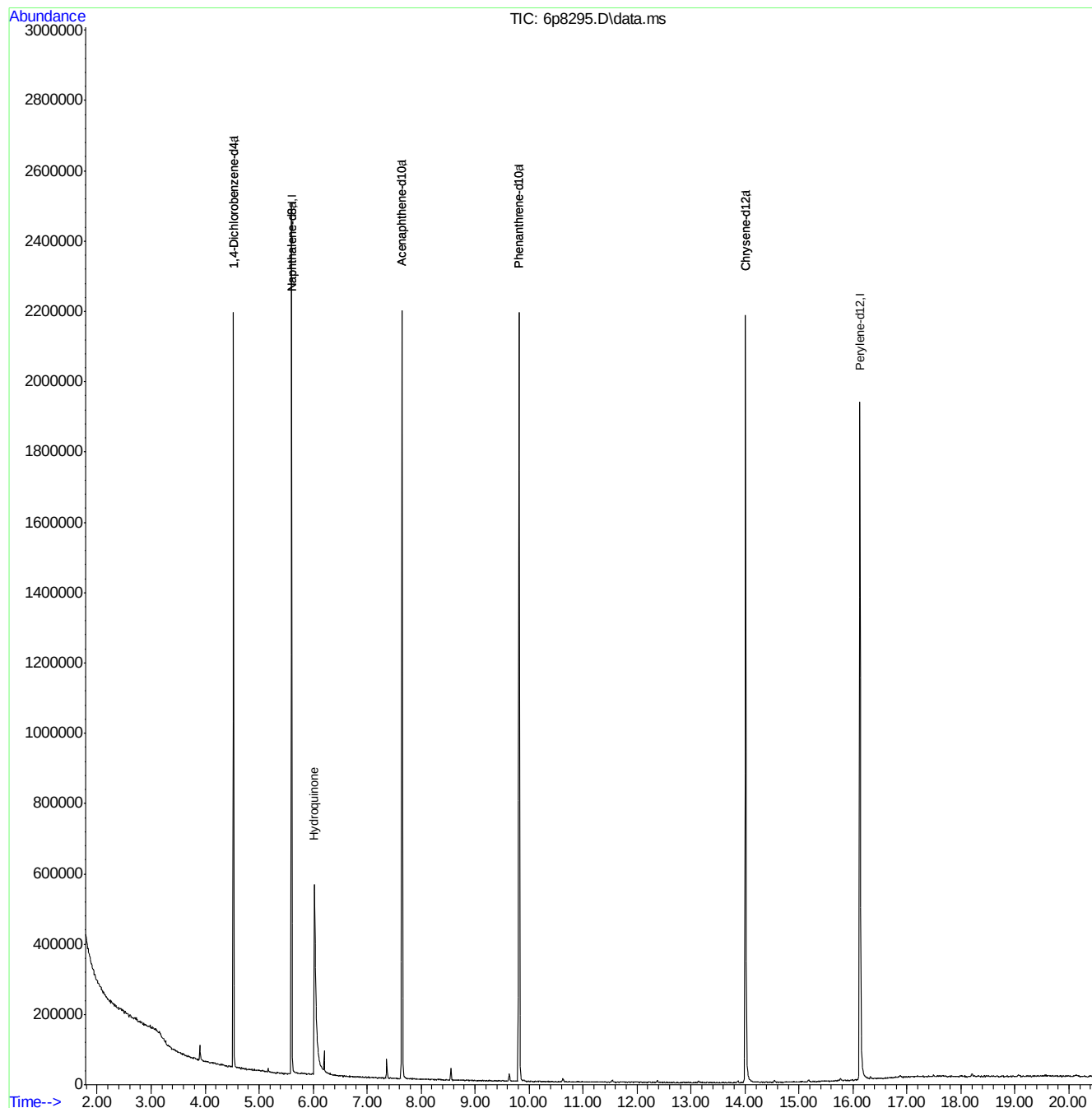
9.6.53

9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p357\
Data File : 6p8295.D
Acq On : 27 Jun 2014 1:08 am
Operator : samtap
Sample : icv358-50
Misc : op75816,e6p358
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jul 02 13:50:12 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Fri Jun 27 22:48:40 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p357\
 Data File : 6p8296.D
 Acq On : 27 Jun 2014 1:36 am
 Operator : samtap
 Sample : icv357-50
 Misc : op75816,e6p358
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jul 02 13:53:12 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Fri Jun 27 22:48:40 2014
 Response via : Initial Calibration

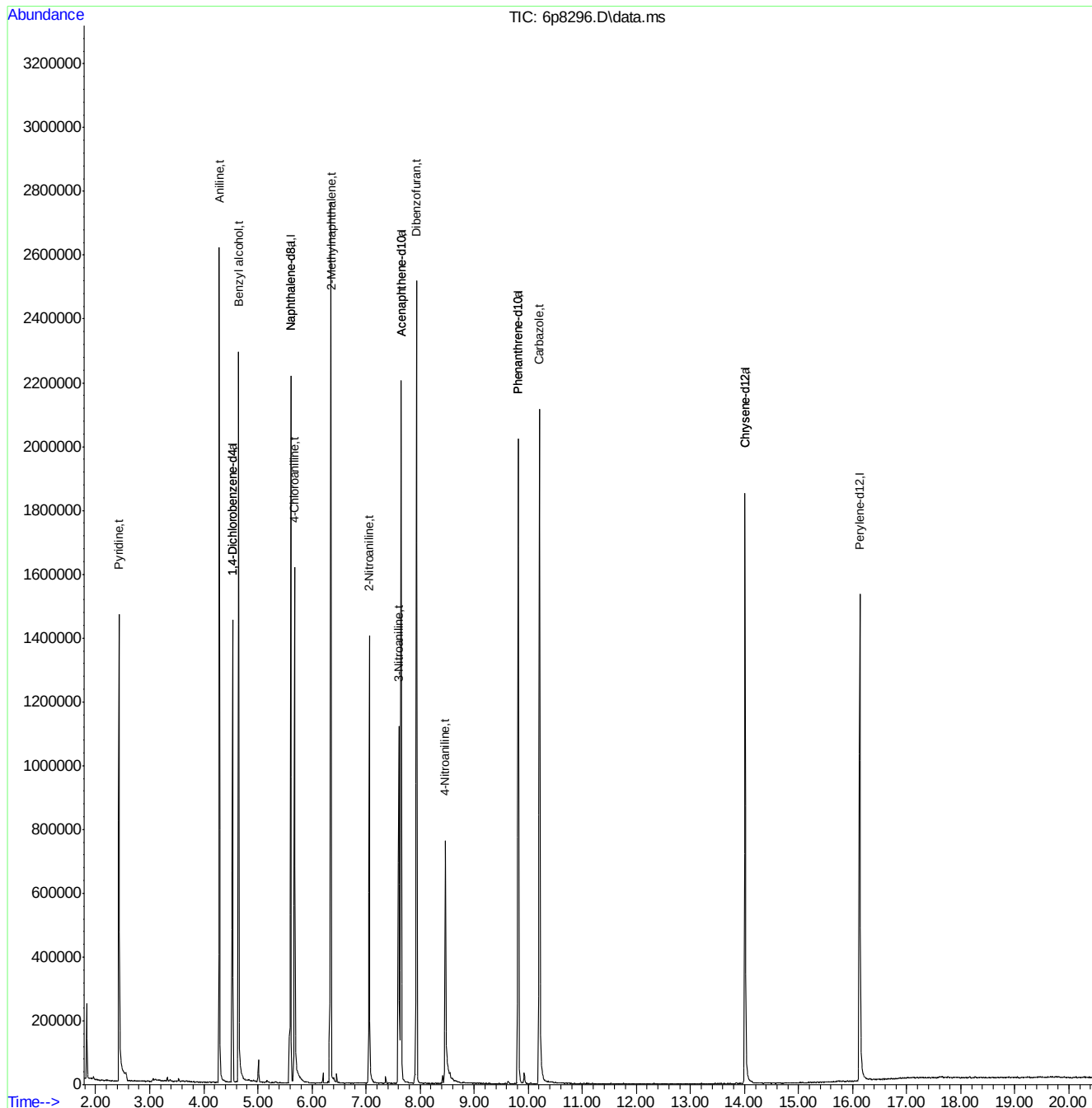
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.536	152	228921	40.00	ppb	0.00
24) Naphthalene-d8	5.606	136	836752	40.00	ppb	0.00
47) Acenaphthene-d10	7.649	164	559179	40.00	ppb	-0.01
69) Phenanthrene-d10	9.815	188	893612	40.00	ppb	-0.02
83) Chrysene-d12	14.008	240	897274	40.00	ppb	-0.02
92) Perylene-d12	16.132	264	784234	40.00	ppb	-0.01
102) 1,4-Dichlorobenzene-d4a	4.536	152	228921	40.00	ppb	0.01
104) Phenanthrene-d10a	9.815	188	893612	40.00	ppb	0.00
107) Chrysene-d12a	14.008	240	897274	40.00	ppb	0.00
110) Acenaphthene-d10a	7.649	164	559179	40.00	ppb	0.00
112) Naphthalene-d8a	5.606	136	836752	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						
3) Pyridine	2.429	79	526185	54.36	ppb	98
10) Aniline	4.290	93	738513	50.11	ppb	96
16) Benzyl alcohol	4.643	108	271334	43.57	ppb	97
39) 4-Chloroaniline	5.681	127	453604	46.68	ppb	98
44) 2-Methylnaphthalene	6.349	141	654454	48.55	ppb	96
54) 2-Nitroaniline	7.061	65	269883	45.83	ppb	96
58) 3-Nitroaniline	7.606	138	223658	46.74	ppb	98
62) Dibenzofuran	7.932	168	1137775	47.82	ppb	99
68) 4-Nitroaniline	8.467	138	199043	41.06	ppb	96
79) Carbazole	10.206	167	1206842	45.04	ppb	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p357\
Data File : 6p8296.D
Acq On : 27 Jun 2014 1:36 am
Operator : samtap
Sample : icv357-50
Misc : op75816,e6p358
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jul 02 13:53:12 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Fri Jun 27 22:48:40 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p364\
 Data File : 6p8434.D
 Acq On : 2 Jul 2014 9:59 pm
 Operator : andrews1
 Sample : cc357-25
 Misc : op75816,e6p364
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 03 09:28:33 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Fri Jun 27 22:47:50 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.520	152	249208	40.00	ppb	-0.01
24) Naphthalene-d8	5.595	136	1000657	40.00	ppb	-0.02
47) Acenaphthene-d10	7.654	164	625292	40.00	ppb	0.00
69) Phenanthrene-d10	9.847	188	1012695	40.00	ppb	0.02
83) Chrysene-d12	14.067	240	1031370	40.00	ppb	0.04
92) Perylene-d12	16.201	264	1008495	40.00	ppb	0.06
102) 1,4-Dichlorobenzene-d4a	4.520	152	249208	40.00	ppb	0.00
104) Phenanthrene-d10a	9.847	188	1012695	40.00	ppb	0.03
106) Chrysene-d12a	14.067	240	1031370	40.00	ppb	0.05
108) Acenaphthene-d10a	7.654	164	625292	40.00	ppb	0.00
110) Naphthalene-d8a	5.595	136	1000657	40.00	ppb	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	3.525	112	220443	23.06	ppb	0.00
Spiked Amount 50.000			Recovery =	46.12%		
8) Phenol-d5	4.263	99	287397	24.02	ppb	-0.01
Spiked Amount 50.000			Recovery =	48.04%		
25) Nitrobenzene-d5	4.959	82	289871	25.85	ppb	-0.02
Spiked Amount 50.000			Recovery =	51.70%		
51) 2-Fluorobiphenyl	6.783	172	474728	23.02	ppb	-0.02
Spiked Amount 50.000			Recovery =	46.04%		
73) 2,4,6-Tribromophenol	8.794	330	66892	24.83	ppb	0.00
Spiked Amount 50.000			Recovery =	49.66%		
86) Terphenyl-d14	12.425	244	558740	24.21	ppb	0.02
Spiked Amount 50.000			Recovery =	48.42%		
Target Compounds						
					Qvalue	
2) 1,4-Dioxane	1.985	88	95366	23.72	ppb	91
3) Pyridine	2.332	79	238184	22.60	ppb	93
4) N-Nitrosodimethylamine	2.290	74	151054	22.75	ppb	83
6) Indene	4.718	116	394434	23.51	ppb	98
7) Cumene	3.910	105	576529	23.51	ppb	96
9) Phenol	4.274	94	343922	24.00	ppb	# 1
10) Aniline	4.274	93	359758	22.42	ppb	# 38
11) bis(2-Chloroethyl)ether	4.322	93	236941	23.15	ppb	97
12) 2-Chlorophenol	4.365	128	223669	23.19	ppb	91
13) Decane	4.402	43	280504	25.77	ppb	92
14) 1,3-Dichlorobenzene	4.477	146	248428	23.39	ppb	98
15) 1,4-Dichlorobenzene	4.531	146	245882	22.99	ppb	97
16) Benzyl alcohol	4.632	108	165061	24.35	ppb	91
17) 1,2-Dichlorobenzene	4.648	146	230238	22.72	ppb	97
18) Acetophenone	4.836	105	342855	23.86	ppb	93
19) 2-Methylphenol	4.729	108	216610	24.91	ppb	99
20) 2,2'-oxybis(1-Chloropr...	4.734	121	77778	22.98	ppb	91
21) 3&4-Methylphenol	4.852	108	239949	26.10	ppb	98
22) n-Nitroso-di-n-propyla...	4.836	70	183388	24.50	ppb	88
23) Hexachloroethane	4.916	201	91289	24.76	ppb	90
26) Nitrobenzene	4.969	77	314256	25.48	ppb	95
27) Quinoline	5.953	129	429880	22.30	ppb	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p364\
 Data File : 6p8434.D
 Acq On : 2 Jul 2014 9:59 pm
 Operator : andrews1
 Sample : cc357-25
 Misc : op75816,e6p364
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 03 09:28:33 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Fri Jun 27 22:47:50 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
28) Isophorone	5.178	82	507531	24.26	ppb	98
29) 2-Nitrophenol	5.247	139	122913	23.94	ppb	83
30) 2,4-Dimethylphenol	5.290	107	224760	25.93	ppb	92
31) Benzoic Acid	5.381	105	118785m	16.83	ppb	
32) bis(2-Chloroethoxy)met...	5.365	93	277861	23.49	ppb	99
33) 2,4-Dichlorophenol	5.472	162	185052	24.02	ppb	96
34) 2,6-Dichlorophenol	5.681	162	187023	24.56	ppb	98
35) 1,3,5-Trichlorobenzene	5.258	180	213278	23.37	ppb	99
36) 1,2,4-Trichlorobenzene	5.542	180	203451	23.44	ppb	98
37) 1,2,3-Trichlorobenzene	5.761	180	206225	23.85	ppb	98
38) Naphthalene	5.617	128	643257	22.82	ppb	99
39) 4-Chloroaniline	5.670	127	277089	23.84	ppb	95
40) 2,3-Dichloroaniline	6.676	161	237053	23.58	ppb	98
41) Caprolactam	6.034	55	121058	25.13	ppb	94
42) Hexachlorobutadiene	5.740	225	119035	25.67	ppb	98
43) 4-Chloro-3-methylphenol	6.194	107	225045	24.95	ppb	98
44) 2-Methylnaphthalene	6.339	141	373870	23.19	ppb	97
45) 1-Methylnaphthalene	6.451	141	377028	22.92	ppb	98
46) Dimethylnaphthalene	7.103	156	402183	23.02	ppb	98
48) Hexachlorocyclopentadiene	6.531	237	235084	51.43	ppb	99
49) 2,4,6-Trichlorophenol	6.686	196	145100	24.41	ppb	99
50) 2,4,5-Trichlorophenol	6.740	196	162611	25.34	ppb	96
52) 2-Chloronaphthalene	6.922	162	441371	22.86	ppb	98
53) Biphenyl	6.900	154	535826	22.56	ppb	98
54) 2-Nitroaniline	7.061	65	169607	25.75	ppb	87
55) Dimethylphthalate	7.317	163	484374	23.27	ppb	99
56) Acenaphthylene	7.456	152	670166	22.95	ppb	100
57) 2,6-Dinitrotoluene	7.392	165	114505	24.08	ppb	93
58) 3-Nitroaniline	7.617	138	129788	24.26	ppb	98
59) Acenaphthene	7.697	153	407350	22.36	ppb	99
60) 2,4-Dinitrophenol	7.772	184	69136	25.71	ppb	87
61) 4-Nitrophenol	7.922	109	79307	29.59	ppb	97
62) Dibenzofuran	7.938	168	603885	22.70	ppb	95
63) 2,4-Dinitrotoluene	7.954	165	158630	25.15	ppb	87
64) 2,3,4,6-Tetrachlorophenol	8.141	232	123184	24.44	ppb	96
65) Diethylphthalate	8.328	149	475723	23.16	ppb	99
66) Fluorene	8.435	166	495700	22.68	ppb	98
67) 4-Chlorophenyl-phenyle...	8.457	204	238126	23.11	ppb	99
68) 4-Nitroaniline	8.499	138	128281	23.66	ppb	89
70) 4,6-Dinitro-2-methylph...	8.553	198	70890	18.06	ppb	95
71) n-Nitrosodiphenylamine	8.639	169	342257	23.52	ppb	99
72) 1,2-Diphenylhydrazine	8.687	77	642899	25.15	ppb	95
74) 4-Bromophenyl-phenylether	9.184	248	135394	24.21	ppb	95
75) Hexachlorobenzene	9.270	284	152589	23.01	ppb	97
76) Pentachlorophenol	9.596	266	181105	47.72	ppb	95
77) Phenanthrene	9.885	178	703157	22.61	ppb	98
78) Anthracene	9.965	178	724978	23.34	ppb	99
79) Carbazole	10.243	167	697197	22.96	ppb	98
80) Di-n-butylphthalate	10.880	149	815414	24.58	ppb	99
81) Fluoranthene	11.757	202	790988	23.06	ppb	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p364\
Data File : 6p8434.D
Acq On : 2 Jul 2014 9:59 pm
Operator : andrews1
Sample : cc357-25
Misc : op75816,e6p364
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 03 09:28:33 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Fri Jun 27 22:47:50 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
82) Octadecane	9.821	57	381500	25.40	ppb	94
84) Pyrene	12.104	202	840051	23.55	ppb	98
85) Butyl stearate	13.458	56	398305	35.42	ppb	96
87) Butylbenzylphthalate	13.276	149	378574	25.82	ppb	96
88) Benzo[a]anthracene	14.051	228	739317	23.63	ppb	99
89) 3,3'-Dichlorobenzidine	14.062	252	273282	24.25	ppb	99
90) Chrysene	14.105	228	707212	22.65	ppb	99
91) bis(2-Ethylhexyl)phtha...	14.255	149	527011	26.52	ppb	98
93) Di-n-octylphthalate	15.255	149	903082	27.03	ppb	96
94) Benzo[b]fluoranthene	15.672	252	785493	24.08	ppb	100
95) Benzo[k]fluoranthene	15.715	252	732665	21.87	ppb	99
96) Benzo[a]pyrene	16.116	252	694471	22.89	ppb	100
97) Indeno[1,2,3-cd]pyrene	17.704	276	697475	24.34	ppb	97
98) Dibenz(a,h)acridine	17.362	279	618382	23.03	ppb	100
99) Dibenz[a,h]anthracene	17.747	278	696832	22.84	ppb	95
100) 7,12-Dimethylbenz(a)an...	15.677	256	351015	29.71	ppb	99
101) Benzo[g,h,i]perylene	18.132	276	670521	20.75	ppb	95

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

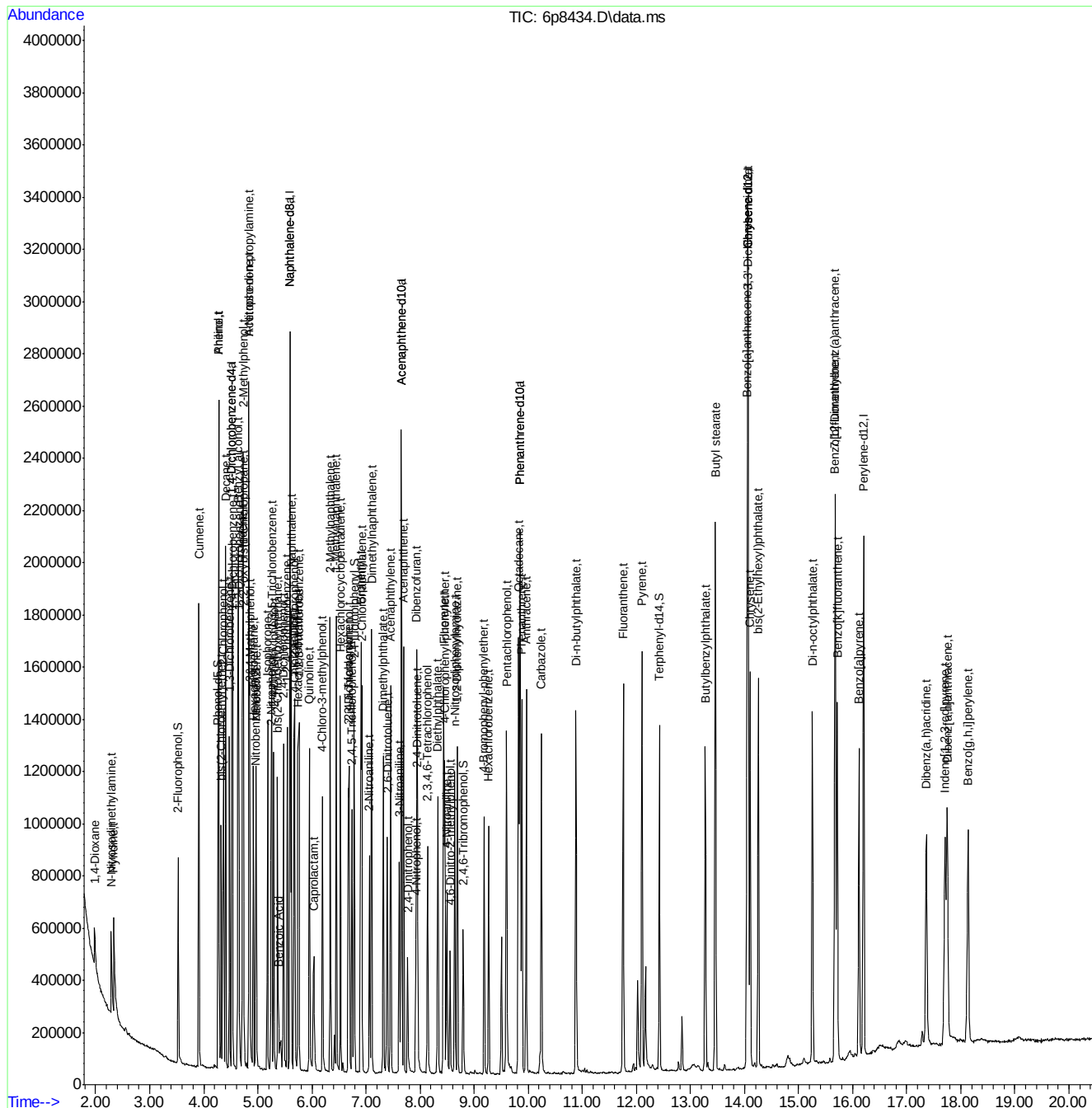
Quantitation Report (QT Reviewed)

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Data Path   : C:\msdchem\1\DATA\e6p364\
Data File   : 6p8434.D
Acq On      : 2 Jul 2014    9:59 pm
Operator    : andrews1
Sample      : cc357-25
Misc        : op75816,e6p364
ALS Vial    : 2      Sample Multiplier: 1

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Quant Time: Jul 03 09:28:33 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Fri Jun 27 22:47:50 2014
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: E6P364-CC357

Method: SW846 8270D

Lab FileID: 6P8434.D

Analyst approved: 07/03/14 11:51 Kristi Schollenberger

Injection Time: 07/02/14 21:59

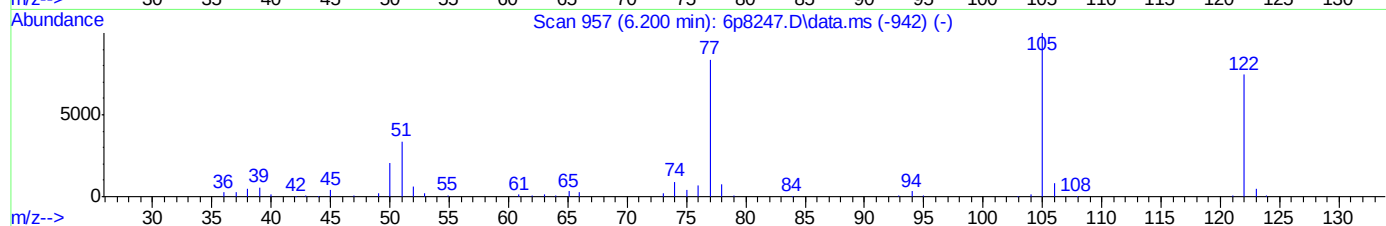
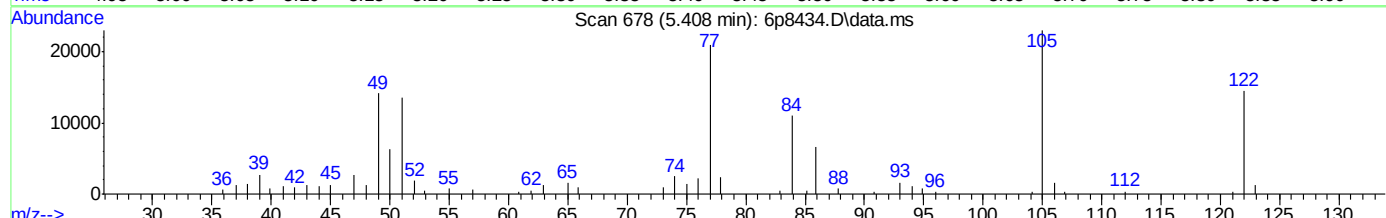
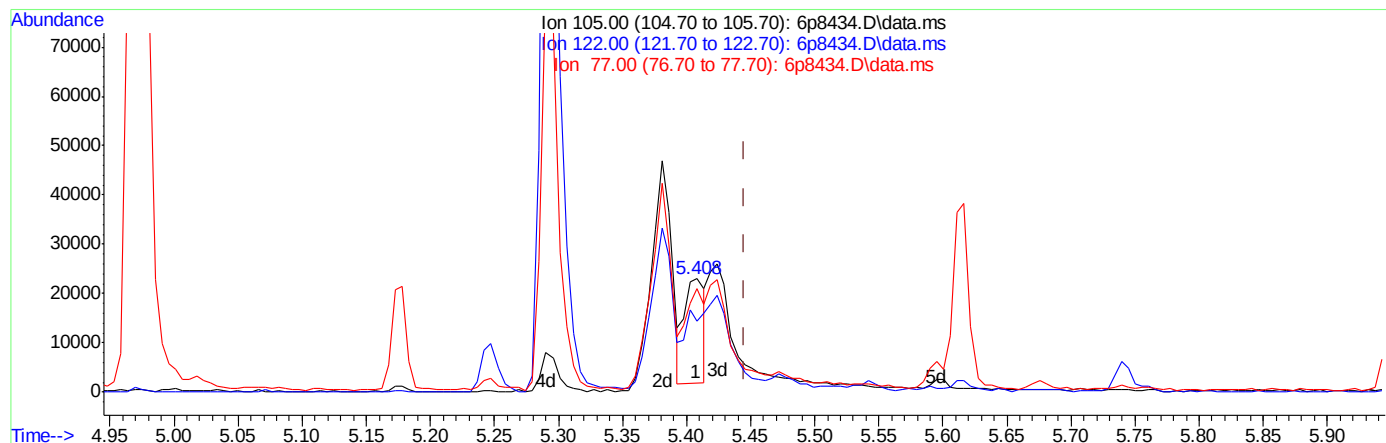
Supervisor approved: 07/07/14 11:59 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic Acid	65-85-0		5.38	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\6p364\
Data File : 6p8434.D
Acq On : 2 Jul 2014 9:59 pm
Operator : andrews1
Sample : cc357-25
Misc : op75816,6p364
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 02 22:19:40 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Fri Jun 27 22:47:50 2014
Response via : Initial Calibration



(31) Benzoic Acid

5.408min (-0.037) 3.38ppb

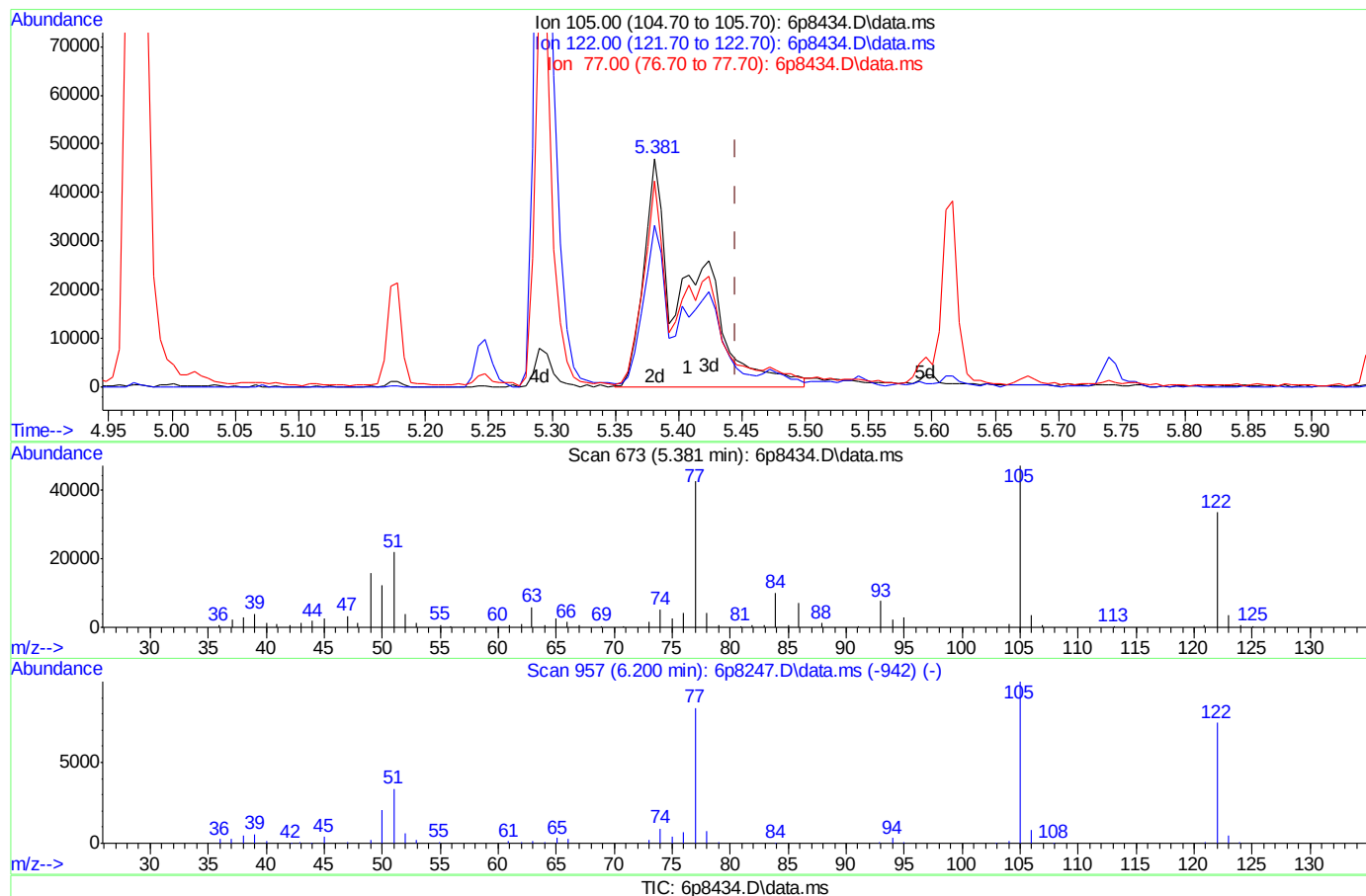
response 23845

Ion	Exp%	Act%
105.00	100	100
122.00	71.30	53.4
77.00	82.00	87.14
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\6p364\
Data File : 6p8434.D
Acq On : 2 Jul 2014 9:59 pm
Operator : andrews1
Sample : cc357-25
Misc : op75816,e6p364
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 02 22:19:40 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Fri Jun 27 22:47:50 2014
Response via : Initial Calibration



(31) Benzoic Acid

5.381min (-0.064) 16.83ppb m

response 118785

Ion	Exp%	Act%
105.00	100	100
122.00	71.30	10.74#
77.00	82.00	17.49#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p364\
 Data File : 6p8435.D
 Acq On : 2 Jul 2014 10:27 pm
 Operator : andrews1
 Sample : cc358-25
 Misc : op75816,e6p364
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 03 11:35:21 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Fri Jun 27 22:47:50 2014
 Response via : Initial Calibration

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

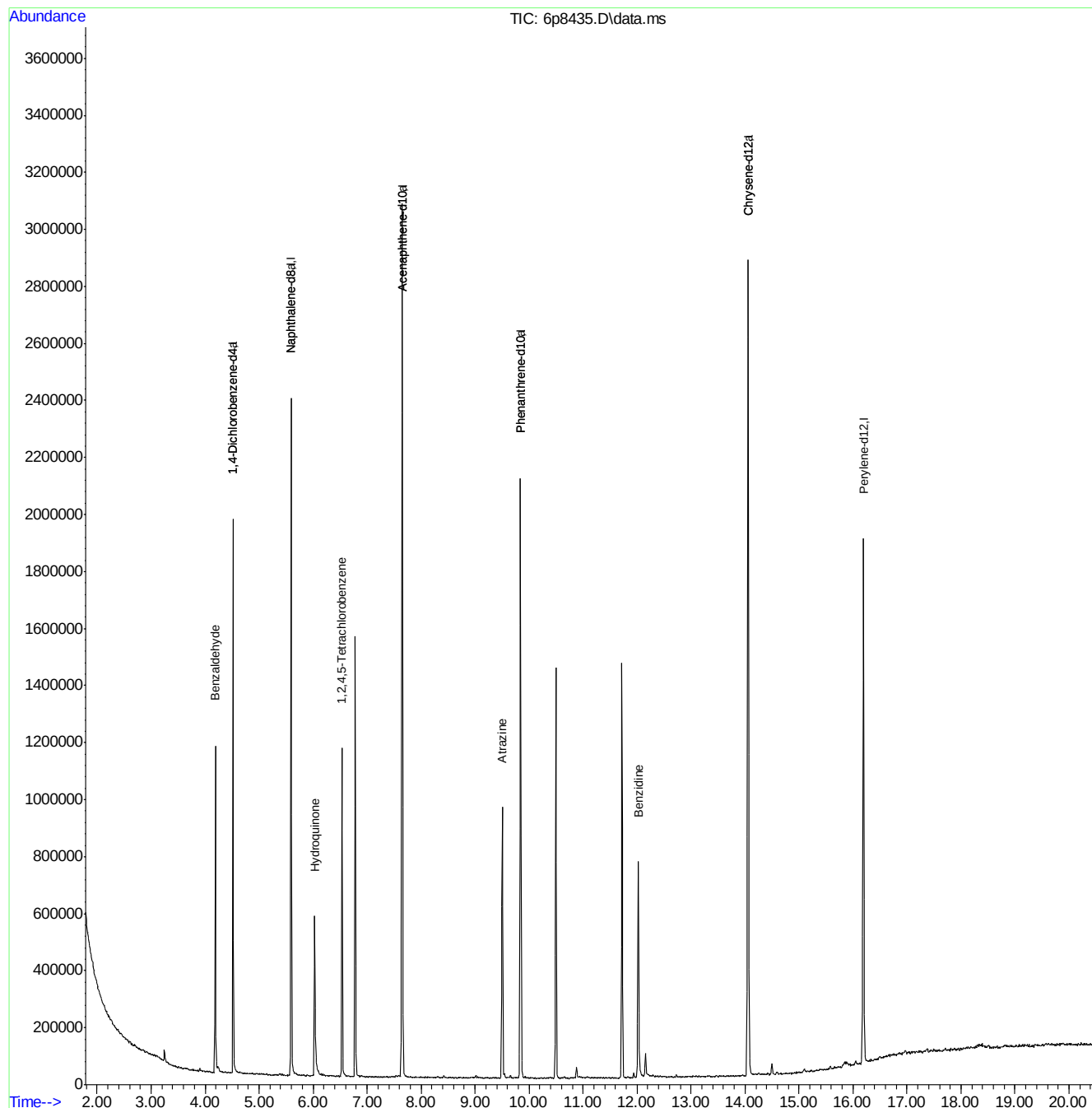
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.515	152	229221	40.00	ppb	-0.02
24) Naphthalene-d8	5.595	136	928637	40.00	ppb	-0.02
47) Acenaphthene-d10	7.649	164	572339	40.00	ppb	-0.01
69) Phenanthrene-d10	9.842	188	946368	40.00	ppb	0.01
83) Chrysene-d12	14.057	240	990701	40.00	ppb	0.03
92) Perylene-d12	16.196	264	980578	40.00	ppb	0.05
102) 1,4-Dichlorobenzene-d4a	4.515	152	229221	40.00	ppb	-0.01
104) Phenanthrene-d10a	9.842	188	946368	40.00	ppb	0.02
106) Chrysene-d12a	14.057	240	990701	40.00	ppb	0.04
108) Acenaphthene-d10a	7.649	164	572339	40.00	ppb	0.00
110) Naphthalene-d8a	5.595	136	928637	40.00	ppb	-0.01
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%	
Target Compounds						Qvalue
103) Benzaldehyde	4.188	105	177701	24.17	ppb	91
105) Atrazine	9.505	215	74508	26.64	ppb #	83
107) Benzidine	12.024	184	396932	26.07	ppb	79
109) 1,2,4,5-Tetrachloroben...	6.536	216	196654	23.93	ppb #	34
111) Hydroquinone	6.028	110	242070	31.24	ppb	96

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p364\
Data File : 6p8435.D
Acq On : 2 Jul 2014 10:27 pm
Operator : andrews1
Sample : cc358-25
Misc : op75816,e6p364
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 03 11:35:21 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Fri Jun 27 22:47:50 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p368\
 Data File : 6p8541.D
 Acq On : 8 Jul 2014 10:59 am
 Operator : ashleyv
 Sample : cc357-25
 Misc : op75816,e6p368
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 10 15:48:07 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Thu Jul 10 15:39:20 2014
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.472	152	216434	40.00	ppb	0.00
24) Naphthalene-d8	5.536	136	875710	40.00	ppb	0.00
47) Acenaphthene-d10	7.574	164	555483	40.00	ppb	0.00
69) Phenanthrene-d10	9.740	188	894326	40.00	ppb	0.00
83) Chrysene-d12	13.934	240	925574	40.00	ppb	0.00
92) Perylene-d12	16.052	264	885507	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	4.472	152	216434	40.00	ppb	0.00
104) Phenanthrene-d10a	9.740	188	894326	40.00	ppb	0.00
106) Chrysene-d12a	13.934	240	925574	40.00	ppb	0.00
108) Acenaphthene-d10a	7.574	164	555483	40.00	ppb	0.00
110) Naphthalene-d8a	5.536	136	875710	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.482	112	177930	21.43	ppb	0.00
Spiked Amount	50.000		Recovery	=	42.86%	
8) Phenol-d5	4.226	99	241270	23.22	ppb	0.00
Spiked Amount	50.000		Recovery	=	46.44%	
25) Nitrobenzene-d5	4.905	82	255254	26.01	ppb	0.00
Spiked Amount	50.000		Recovery	=	52.02%	
51) 2-Fluorobiphenyl	6.713	172	413931	22.60	ppb	0.00
Spiked Amount	50.000		Recovery	=	45.20%	
73) 2,4,6-Tribromophenol	8.697	330	57836	24.31	ppb	0.00
Spiked Amount	50.000		Recovery	=	48.62%	
86) Terphenyl-d14	12.308	244	489734	23.65	ppb	0.00
Spiked Amount	50.000		Recovery	=	47.30%	
Target Compounds						
						Qvalue
2) 1,4-Dioxane	1.915	88	81749	23.41	ppb	89
3) Pyridine	2.268	79	191537	20.93	ppb	87
4) N-Nitrosodimethylamine	2.231	74	131125	22.74	ppb	70
6) Indene	4.665	116	343544	23.58	ppb	96
7) Cumene	3.862	105	484197	22.73	ppb	95
9) Phenol	4.237	94	279659	22.47	ppb	# 32
10) Aniline	4.226	93	295423	21.20	ppb	79
11) bis(2-Chloroethyl)ether	4.274	93	200672	22.57	ppb	93
12) 2-Chlorophenol	4.322	128	187294	22.36	ppb	90
13) Decane	4.354	43	246255	26.05	ppb	88
14) 1,3-Dichlorobenzene	4.429	146	209111	22.67	ppb	97
15) 1,4-Dichlorobenzene	4.483	146	216984	23.36	ppb	97
16) Benzyl alcohol	4.584	108	135168	22.96	ppb	77
17) 1,2-Dichlorobenzene	4.600	146	198372	22.54	ppb	96
18) Acetophenone	4.782	105	295919	23.71	ppb	88
19) 2-Methylphenol	4.686	108	181002	23.97	ppb	100
20) 2,2'-oxybis(1-Chloropr...	4.686	121	67751	23.05	ppb	96
21) 3&4-Methylphenol	4.804	108	198607	24.87	ppb	97
22) n-Nitroso-di-n-propyla...	4.788	70	163558	25.16	ppb	85
23) Hexachloroethane	4.862	201	83352	26.03	ppb	92
26) Nitrobenzene	4.921	77	288330	26.72	ppb	96
27) Quinoline	5.889	129	374573	22.20	ppb	95

9.6.57
9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p368\
 Data File : 6p8541.D
 Acq On : 8 Jul 2014 10:59 am
 Operator : ashleyv
 Sample : cc357-25
 Misc : op75816,e6p368
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 10 15:48:07 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Thu Jul 10 15:39:20 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
28) Isophorone	5.119	82	429061	23.43	ppb	93
29) 2-Nitrophenol	5.194	139	101604	22.61	ppb	# 69
30) 2,4-Dimethylphenol	5.242	107	192587	25.38	ppb	93
31) Benzoic Acid	5.338	105	104864m	16.98	ppb	
32) bis(2-Chloroethoxy)met...	5.312	93	226459	21.87	ppb	99
33) 2,4-Dichlorophenol	5.419	162	162644	24.13	ppb	98
34) 2,6-Dichlorophenol	5.622	162	155187	23.29	ppb	98
35) 1,3,5-Trichlorobenzene	5.199	180	189738	23.76	ppb	98
36) 1,2,4-Trichlorobenzene	5.483	180	181854	23.94	ppb	97
37) 1,2,3-Trichlorobenzene	5.697	180	179058	23.66	ppb	98
38) Naphthalene	5.558	128	552020	22.38	ppb	99
39) 4-Chloroaniline	5.617	127	227980	22.42	ppb	94
40) 2,3-Dichloroaniline	6.606	161	203012	23.08	ppb	94
41) Caprolactam	5.970	55	98906	23.46	ppb	89
42) Hexachlorobutadiene	5.681	225	108555	26.75	ppb	99
43) 4-Chloro-3-methylphenol	6.141	107	193651	24.53	ppb	99
44) 2-Methylnaphthalene	6.274	141	321377	22.78	ppb	95
45) 1-Methylnaphthalene	6.387	141	321350	22.33	ppb	95
46) Dimethylnaphthalene	7.029	156	351454	22.98	ppb	97
48) Hexachlorocyclopentadiene	6.462	237	217295	53.51	ppb	99
49) 2,4,6-Trichlorophenol	6.617	196	123515	23.39	ppb	99
50) 2,4,5-Trichlorophenol	6.670	196	140417	24.63	ppb	96
52) 2-Chloronaphthalene	6.847	162	386420	22.53	ppb	99
53) Biphenyl	6.831	154	460700	21.83	ppb	98
54) 2-Nitroaniline	6.991	65	158284	27.05	ppb	88
55) Dimethylphthalate	7.243	163	420529	22.74	ppb	98
56) Acenaphthylene	7.376	152	576589	22.23	ppb	99
57) 2,6-Dinitrotoluene	7.312	165	100661	23.83	ppb	85
58) 3-Nitroaniline	7.537	138	105341	22.16	ppb	93
59) Acenaphthene	7.612	153	354543	21.91	ppb	99
60) 2,4-Dinitrophenol	7.687	184	66133	27.68	ppb	81
61) 4-Nitrophenol	7.836	109	75699	31.79	ppb	88
62) Dibenzofuran	7.852	168	532467	22.53	ppb	92
63) 2,4-Dinitrotoluene	7.868	165	137991	24.62	ppb	92
64) 2,3,4,6-Tetrachlorophenol	8.050	232	106839	23.86	ppb	93
65) Diethylphthalate	8.232	149	419033	22.96	ppb	99
66) Fluorene	8.344	166	431349	22.22	ppb	99
67) 4-Chlorophenyl-phenyle...	8.366	204	208616	22.79	ppb	99
68) 4-Nitroaniline	8.403	138	98104	20.37	ppb	74
70) 4,6-Dinitro-2-methylph...	8.457	198	59950	17.30	ppb	93
71) n-Nitrosodiphenylamine	8.542	169	287801	22.39	ppb	99
72) 1,2-Diphenylhydrazine	8.596	77	580562	25.71	ppb	96
74) 4-Bromophenyl-phenylether	9.088	248	116991	23.69	ppb	93
75) Hexachlorobenzene	9.163	284	133809	22.85	ppb	94
76) Pentachlorophenol	9.484	266	148966	44.45	ppb	98
77) Phenanthrene	9.772	178	609768	22.21	ppb	98
78) Anthracene	9.853	178	620871	22.63	ppb	99
79) Carbazole	10.136	167	592899	22.11	ppb	98
80) Di-n-butylphthalate	10.767	149	718634	24.53	ppb	98
81) Fluoranthene	11.639	202	690619	22.80	ppb	95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p368\
 Data File : 6p8541.D
 Acq On : 8 Jul 2014 10:59 am
 Operator : ashleyv
 Sample : cc357-25
 Misc : op75816,e6p368
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 10 15:48:07 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Thu Jul 10 15:39:20 2014
 Response via : Initial Calibration

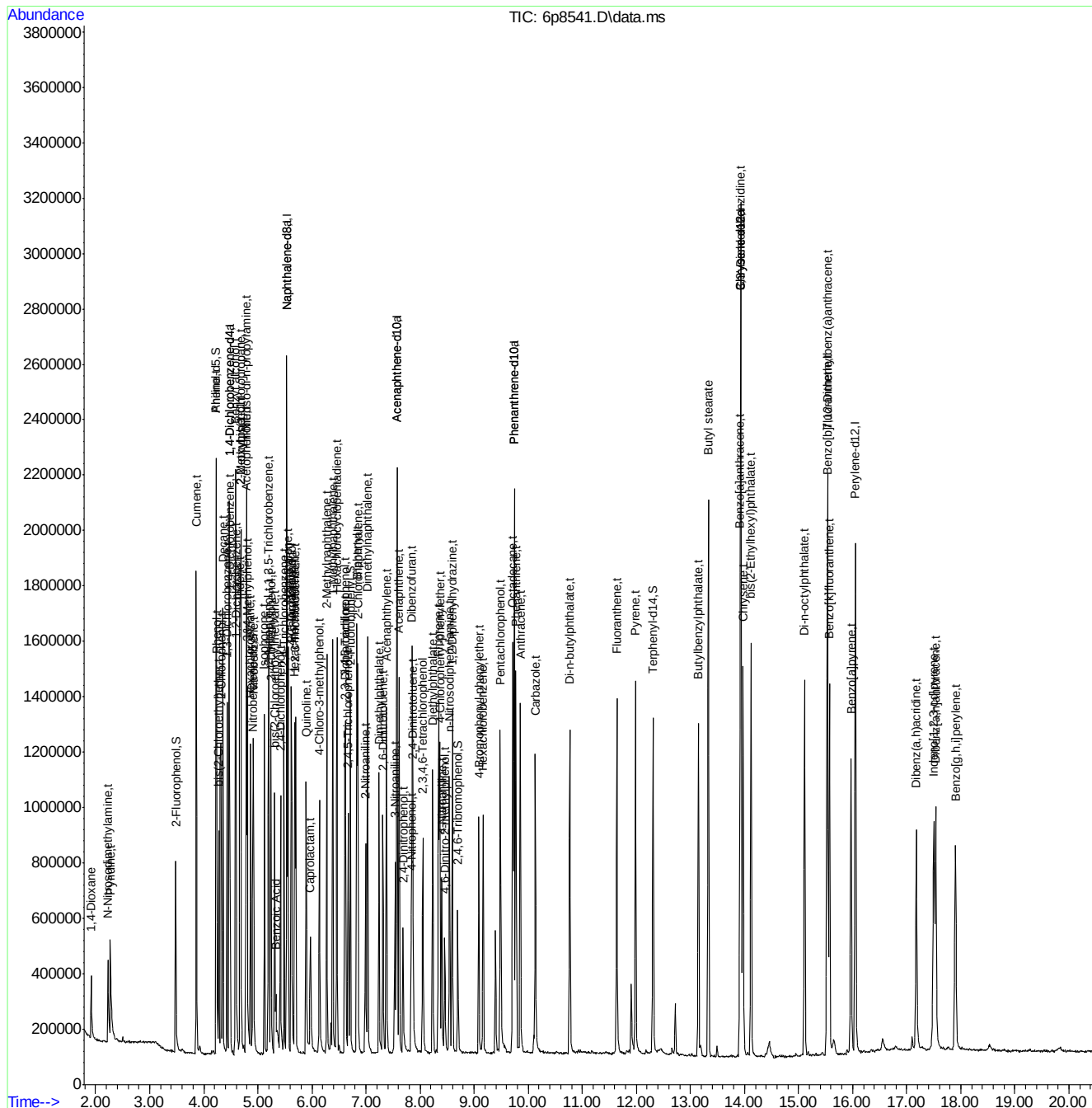
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
82) Octadecane	9.708	57	330465	24.91	ppb	92
84) Pyrene	11.987	202	732035	22.86	ppb	94
85) Butyl stearate	13.329	56	333783	33.07	ppb	95
87) Butylbenzylphthalate	13.147	149	328725	24.99	ppb	89
88) Benzo[a]anthracene	13.918	228	656786	23.40	ppb	98
89) 3,3'-Dichlorobenzidine	13.928	252	244100	24.14	ppb	99
90) Chrysene	13.971	228	617260	22.03	ppb	100
91) bis(2-Ethylhexyl)phtha...	14.121	149	470669	26.39	ppb	98
93) Di-n-octylphthalate	15.110	149	778993	26.55	ppb	96
94) Benzo[b]fluoranthene	15.528	252	658446	22.99	ppb	98
95) Benzo[k]fluoranthene	15.570	252	654634	22.26	ppb	97
96) Benzo[a]pyrene	15.972	252	592134	22.23	ppb	97
97) Indeno[1,2,3-cd]pyrene	17.501	276	572697	22.76	ppb	95
98) Dibenz(a,h)acridine	17.180	279	527152	22.36	ppb	99
99) Dibenz[a,h]anthracene	17.539	278	608648	22.72	ppb	95
100) 7,12-Dimethylbenz(a)an...	15.533	256	306092	29.51	ppb	96
101) Benzo[g,h,i]perylene	17.902	276	572653	20.18	ppb	95

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p368\
Data File : 6p8541.D
Acq On : 8 Jul 2014 10:59 am
Operator : ashleyv
Sample : cc357-25
Misc : op75816,6p368
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 10 15:48:07 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Thu Jul 10 15:39:20 2014
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: E6P368-CC357

Method: SW846 8270D

Lab FileID: 6P8541.D

Analyst approved: 07/10/14 15:48 Ashley Vought

Injection Time: 07/08/14 10:59

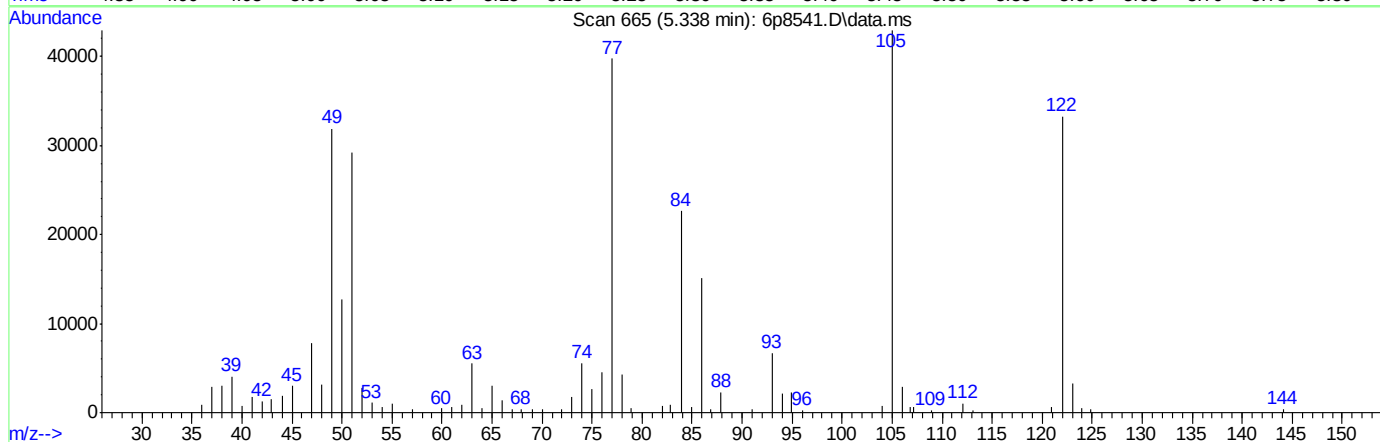
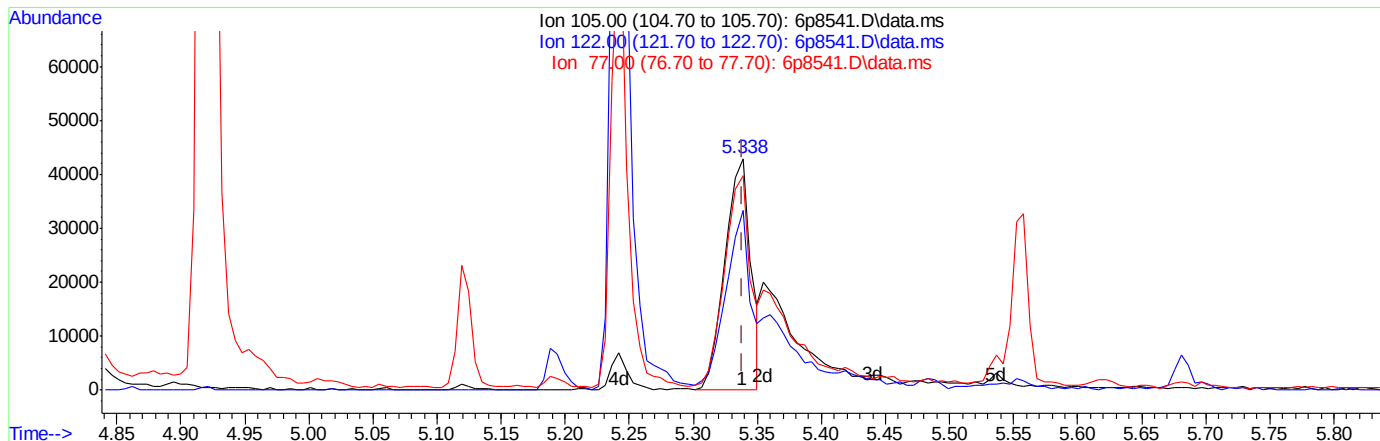
Supervisor approved: 07/14/14 12:00 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic Acid	65-85-0		5.34	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p368\
Data File : 6p8541.D
Acq On : 8 Jul 2014 10:59 am
Operator : ashleyv
Sample : cc357-25
Misc : op75816,e6p368
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 10 15:45:05 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Thu Jul 10 15:39:20 2014
Response via : Initial Calibration



(31) Benzoic Acid

5.338min (0.000) 9.68ppb

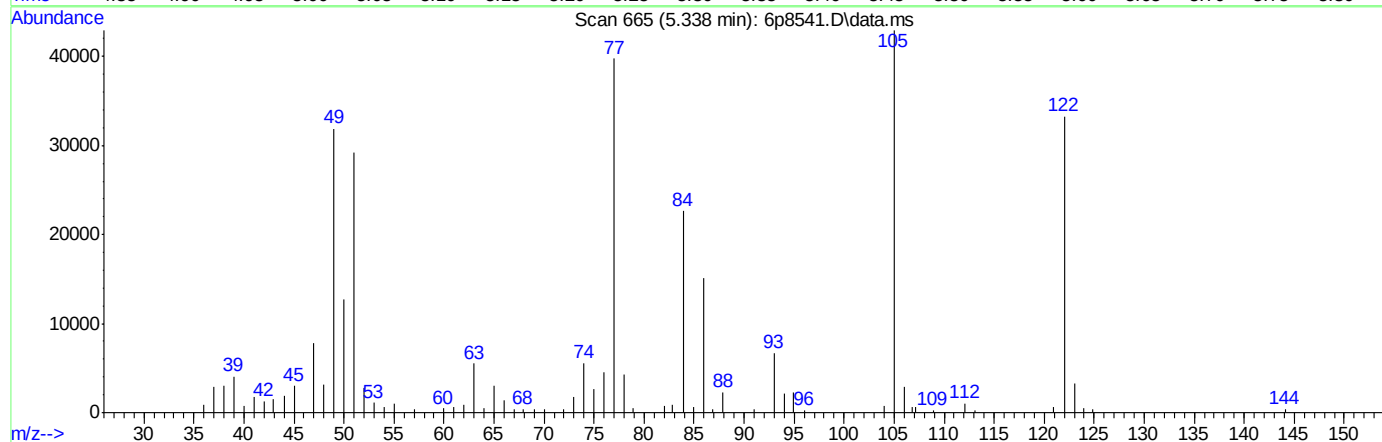
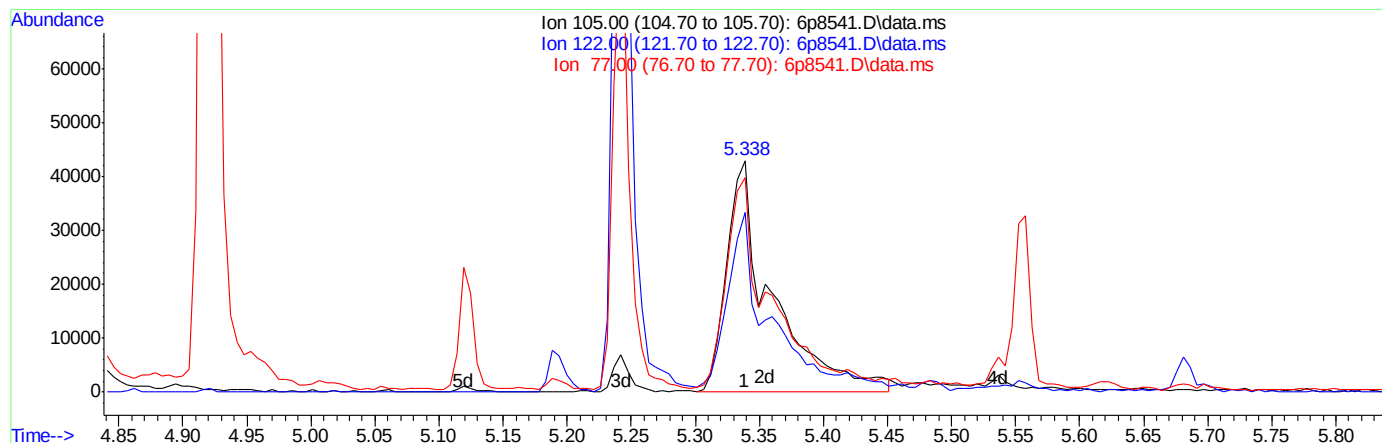
response 59254

Ion	Exp%	Act%
105.00	100	100
122.00	71.30	70.17
77.00	82.00	91.16
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p368\
Data File : 6p8541.D
Acq On : 8 Jul 2014 10:59 am
Operator : ashleyv
Sample : cc357-25
Misc : op75816,e6p368
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 10 15:45:53 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Thu Jul 10 15:39:20 2014
Response via : Initial Calibration



(31) Benzoic Acid

5.338min (0.000) 16.98ppb m

response 104864

Ion	Exp%	Act%
105.00	100	100
122.00	71.30	0.00#
77.00	82.00	0.00#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p368\
 Data File : 6p8542.D
 Acq On : 8 Jul 2014 11:44 am
 Operator : ashleyv
 Sample : cc358-25
 Misc : op75816,e6p368
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 08 17:11:34 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
 Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 QLast Update : Tue Jul 08 17:11:05 2014
 Response via : Initial Calibration

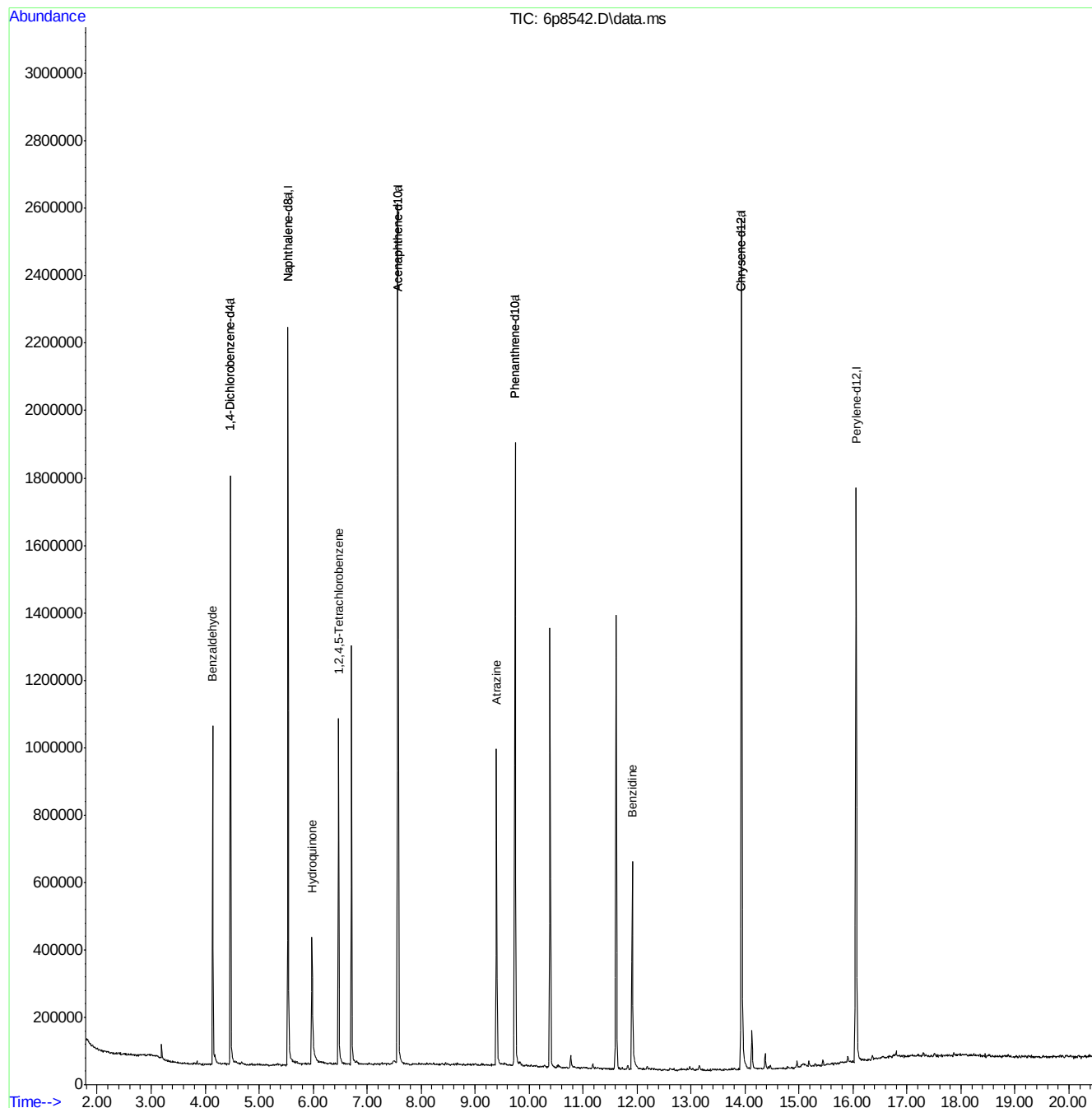
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.466	152	200785	40.00	ppb	0.00
24) Naphthalene-d8	5.536	136	809386	40.00	ppb	0.00
47) Acenaphthene-d10	7.574	164	514223	40.00	ppb	0.00
69) Phenanthrene-d10	9.740	188	833707	40.00	ppb	0.00
83) Chrysene-d12	13.934	240	862753	40.00	ppb	0.00
92) Perylene-d12	16.057	264	819998	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	4.466	152	200785	40.00	ppb	0.00
104) Phenanthrene-d10a	9.740	188	833707	40.00	ppb	0.00
106) Chrysene-d12a	13.934	240	862753	40.00	ppb	0.00
108) Acenaphthene-d10a	7.574	164	514223	40.00	ppb	0.00
110) Naphthalene-d8a	5.536	136	809386	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%	
Target Compounds						
103) Benzaldehyde	4.140	105	144764	22.48	ppb	Qvalue 93
105) Atrazine	9.398	215	62505	25.37	ppb	# 82
107) Benzidine	11.912	184	308230	23.24	ppb	77
109) 1,2,4,5-Tetrachloroben...	6.472	216	171398	23.21	ppb	# 33
111) Hydroquinone	5.980	110	191798	28.40	ppb	92

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\6p368\
Data File : 6p8542.D
Acq On : 8 Jul 2014 11:44 am
Operator : ashleyv
Sample : cc358-25
Misc : op75816,e6p368
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 08 17:11:34 2014
Quant Method : C:\MSDCHEM\1\METHODS\M6P357.M
Quant Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
QLast Update : Tue Jul 08 17:11:05 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5692\F35906.D

Vial: 2

Acq On : 11 Jun 2014 8:36 pm

Operator: ashleyd

Sample : icc5692-50

Inst : MSF

Misc : op74333,ef5692

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Jun 12 08:19:06 2014

Quant Results File: MF5692.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Thu Jun 12 08:18:51 2014

Response via : Initial Calibration

DataAcq Meth : MF5692

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.93	152	161124	40.00	ppb	-0.03
24) Naphthalene-d8	5.86	136	586129	40.00	ppb	-0.03
47) Acenaphthene-d10	7.35	164	332995	40.00	ppb	-0.03
69) Phenanthrene-d10	9.32	188	541802	40.00	ppb	-0.04
83) Chrysene-d12	14.68	240	514719	40.00	ppb	-0.06
92) Perylene-d12	17.74	264	421531	40.00	ppb	-0.07
102) 1,4-Dichlorobenzene-d4A	4.93	152	161124	40.00	ppb	-0.03
112) Naphthalene-d8A	5.86	136	586129	40.00	ppb	-0.03
121) Acenaphthene-d10A	7.35	164	332995	40.00	ppb	-0.03
132) Phenanthrene-d10A	9.32	188	541802	40.00	ppb	-0.04
147) Chrysene-d12A	14.68	240	514719	40.00	ppb	-0.06
155) Perylene-d12A	17.74	264	421531	40.00	ppb	-0.07
159) 1,4-Dichlorobenzene-d4b	4.93	152	161124	40.00	ppb	-0.03
161) Naphthalene-d8b	5.86	136	586129	40.00	ppb	-0.03
163) Acenaphthene-d10b	7.35	164	332995	40.00	ppb	-0.03
165) Phenanthrene-d10b	9.32	188	541802	40.00	ppb	-0.04
167) Chrysene-d12b	14.68	240	514719	40.00	ppb	-0.06
169) 1,4-Dichlorobenzene-d4c	4.93	152	161124	40.00	ppb	-0.03
171) Naphthalene-d8c	5.86	136	586129	40.00	ppb	-0.03
176) Chrysene-d12c	14.68	240	514719	40.00	ppb	-0.06
178) Naphthalene-d8a	5.86	136	586129	40.00	ppb	0.05

System Monitoring Compounds

5) 2-Fluorophenol	3.95	112	294666	50.00	ppb	-0.02
Spiked Amount	50.000		Recovery	=	100.00%	
8) Phenol-d5	4.65	99	371948	50.00	ppb	-0.03
Spiked Amount	50.000		Recovery	=	100.00%	
25) Nitrobenzene-d5	5.33	82	295006	50.00	ppb	-0.03
Spiked Amount	50.000		Recovery	=	100.00%	
51) 2-Fluorobiphenyl	6.69	172	565355	50.00	ppb	-0.03
Spiked Amount	50.000		Recovery	=	100.00%	
73) 2,4,6-Tribromophenol	8.28	330	70623	50.00	ppb	-0.04
Spiked Amount	50.000		Recovery	=	100.00%	
85) Terphenyl-d14	12.43	244	600118	50.00	ppb	-0.06
Spiked Amount	50.000		Recovery	=	100.00%	

Target Compounds

						Qvalue
2) 1,4-Dioxane	2.54	88	137324	50.00	ppb	100
3) Pyridine	2.84	79	344147	50.00	ppb	100
4) N-Nitrosodimethylamine	2.81	42	137616	50.00	ppb	100
6) Indene	5.12	116	500015	50.00	ppb	100
7) Cumene	4.34	105	697857	50.00	ppb	100
9) Phenol	4.66	94	386361	50.00	ppb	100
10) Aniline	4.69	93	481146	50.00	ppb	100
11) bis(2-Chloroethyl)ether	4.73	93	270940	50.00	ppb	100
12) 2-Chlorophenol	4.78	128	314727	50.00	ppb	100
13) Decane	4.81	43	297652	50.00	ppb	100
14) 1,3-Dichlorobenzene	4.89	146	339909	50.00	ppb	100
15) 1,4-Dichlorobenzene	4.94	146	335719	50.00	ppb	100
16) Benzyl alcohol	5.03	108	215129	50.00	ppb	100

(#)=qualifier out of range (m)=manual integration

F35906.D MF5692.M

Thu Jun 12 08:51:00 2014

RT1

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5692\F35906.D

Vial: 2

Acq On : 11 Jun 2014 8:36 pm

Operator: ashleyd

Sample : icc5692-50

Inst : MSF

Misc : op74333,ef5692

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Jun 12 08:19:06 2014

Quant Results File: MF5692.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Thu Jun 12 08:18:51 2014

Response via : Initial Calibration

DataAcq Meth : MF5692

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
17) 1,2-Dichlorobenzene	5.06	146	309962	50.00	ppb	100
18) Acetophenone	5.22	105	390997	50.00	ppb	100
19) 2-Methylphenol	5.11	108	285247	50.00	ppb	100
20) 2,2'-oxybis(1-Chloropropan	5.12	121	93159	50.00	ppb	100
21) 3&4-Methylphenol	5.21	108	292860	50.00	ppb	100
22) n-Nitroso-di-n-propylamine	5.22	70	192319	50.00	ppb	100
23) Hexachloroethane	5.31	201	111174	50.00	ppb	100
26) Nitrobenzene	5.35	77	309855	50.00	ppb	100
27) Quinoline	6.11	129	609095	50.00	ppb	100
28) Isophorone	5.51	82	541063	50.00	ppb	100
29) 2-Nitrophenol	5.58	139	164434	50.00	ppb	100
30) 2,4-Dimethylphenol	5.60	107	280496	50.00	ppb	100
31) Benzoic acid	5.67	105	195433	50.00	ppb	100
32) bis(2-Chloroethoxy)methane	5.66	93	311792	50.00	ppb	100
33) 2,4-Dichlorophenol	5.75	162	241160	50.00	ppb	100
34) 2,6-Dichlorophenol	5.91	162	233363	50.00	ppb	100
35) 1,3,5-Trichlorobenzene	5.59	180	267022	50.00	ppb	100
36) 1,2,4-Trichlorobenzene	5.81	180	255210	50.00	ppb	100
37) 1,2,3-Trichlorobenzene	5.97	180	250141	50.00	ppb	100
38) Naphthalene	5.87	128	825749	50.00	ppb	100
39) 4-Chloroaniline	5.90	127	376191	50.00	ppb	100
40) 2,3-Dichloroaniline	6.62	161	287603	50.00	ppb	100
41) Caprolactam	6.17	55	145186	50.00	ppb	100
42) Hexachlorobutadiene	5.96	225	133913	50.00	ppb	100
43) 4-Chloro-3-methylphenol	6.26	107	247793	50.00	ppb	100
44) 2-Methylnaphthalene	6.39	141	484146	50.00	ppb	100
45) 1-Methylnaphthalene	6.47	142	563571	50.00	ppb	100
46) Dimethylnaphthalene	6.92	156	508039	50.00	ppb	100
48) Hexachlorocyclopentadiene	6.52	237	280379	100.00	ppb	100
49) 2,4,6-Trichlorophenol	6.62	196	161909	50.00	ppb	100
50) 2,4,5-Trichlorophenol	6.65	196	173619	50.00	ppb	100
52) 2-Chloronaphthalene	6.80	162	508917	50.00	ppb	100
53) Biphenyl	6.78	154	685274	50.00	ppb	100
54) 2-Nitroaniline	6.89	65	159661	50.00	ppb	100
55) Dimethylphthalate	7.05	163	542239	50.00	ppb	100
56) Acenaphthylene	7.20	152	835715	50.00	ppb	100
57) 2,6-Dinitrotoluene	7.11	165	135337	50.00	ppb	100
58) 3-Nitroaniline	7.28	138	166453	50.00	ppb	100
59) Acenaphthene	7.38	153	514029	50.00	ppb	100
60) 2,4-Dinitrophenol	7.39	184	142740	100.00	ppb	100
61) 4-Nitrophenol	7.45	109	78301	50.00	ppb	100
62) Dibenzofuran	7.57	168	713743	50.00	ppb	100
63) 2,4-Dinitrotoluene	7.53	165	181926	50.00	ppb	100
64) 2,3,4,6-Tetrachlorophenol	7.70	232	142634	50.00	ppb	100
65) Diethylphthalate	7.82	149	545600	50.00	ppb	100
66) Fluorene	7.97	166	568828	50.00	ppb	100
67) 4-Chlorophenyl-phenylether	7.97	204	259630	50.00	ppb	100
68) 4-Nitroaniline	7.99	138	162730	50.00	ppb	100
70) 4,6-Dinitro-2-methylphenol	8.02	198	103308	50.00	ppb	100

(#)=qualifier out of range (m)=manual integration

F35906.D MF5692.M

Thu Jun 12 08:51:00 2014

RT1

Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5692\F35906.D Vial: 2
 Acq On : 11 Jun 2014 8:36 pm Operator: ashleyd
 Sample : icc5692-50 Inst : MSF
 Misc : op74333,ef5692 Multiplr: 1.00
 MS Integration Params: LSCINT.P
 Quant Time: Jun 12 08:19:06 2014 Quant Results File: MF5692.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)
 Title : Semi Volatile Extractables by GC/MS
 Last Update : Thu Jun 12 08:18:51 2014
 Response via : Initial Calibration
 DataAcq Meth : MF5692

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
71) n-Nitrosodiphenylamine	8.12	169	393671	50.00	ppb	100
72) 1,2-Diphenylhydrazine	8.17	77	599475	50.00	ppb	100
74) 4-Bromophenyl-phenylether	8.63	248	150105	50.00	ppb	100
75) Hexachlorobenzene	8.74	284	160498	50.00	ppb	100
76) Pentachlorophenol	9.02	266	206220	100.00	ppb	100
77) Phenanthrene	9.36	178	807808	50.00	ppb	100
78) Anthracene	9.44	178	834825	50.00	ppb	100
79) Carbazole	9.72	167	808116	50.00	ppb	100
80) Di-n-butylphthalate	10.42	149	922911	50.00	ppb	100
81) Fluoranthene	11.56	202	884105	50.00	ppb	100
82) Octadecane	9.19	57	405451	50.00	ppb	100
84) Pyrene	12.02	202	923526	50.00	ppb	100
86) Butylbenzylphthalate	13.59	149	412912	50.00	ppb	100
87) Butyl stearate	13.86	56	289281	50.00	ppb	100
88) Benzo[a]anthracene	14.66	228	788500	50.00	ppb	100
89) 3,3'-Dichlorobenzidine	14.69	252	294821	50.00	ppb	100
90) Chrysene	14.74	228	736255	50.00	ppb	100
91) bis(2-Ethylhexyl)phthalate	15.00	149	565823	50.00	ppb	100
93) Di-n-octylphthalate	16.44	149	925562	50.00	ppb	100
94) Benzo[b]fluoranthene	16.98	252	812148	50.00	ppb	100
95) Benzo[k]fluoranthene	17.05	252	762225	50.00	ppb	100
96) Benzo[a]pyrene	17.62	252	714477	50.00	ppb	100
97) Indeno[1,2,3-cd]pyrene	19.69	276	673933	50.00	ppb	100
98) Dibenz(a,h)acridine	19.32	279	617189	50.00	ppb	100
99) Dibenz[a,h]anthracene	19.74	278	671234	50.00	ppb	100
100) 7,12-Dimethylbenz(a)anthra	17.00	256	386362	50.00	ppb	100
101) Benzo[g,h,i]perylene	20.12	276	676927	50.00	ppb	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 F35906.D MF5692.M Thu Jun 12 08:51:00 2014 RT1

Quantitation Report (QT Reviewed)

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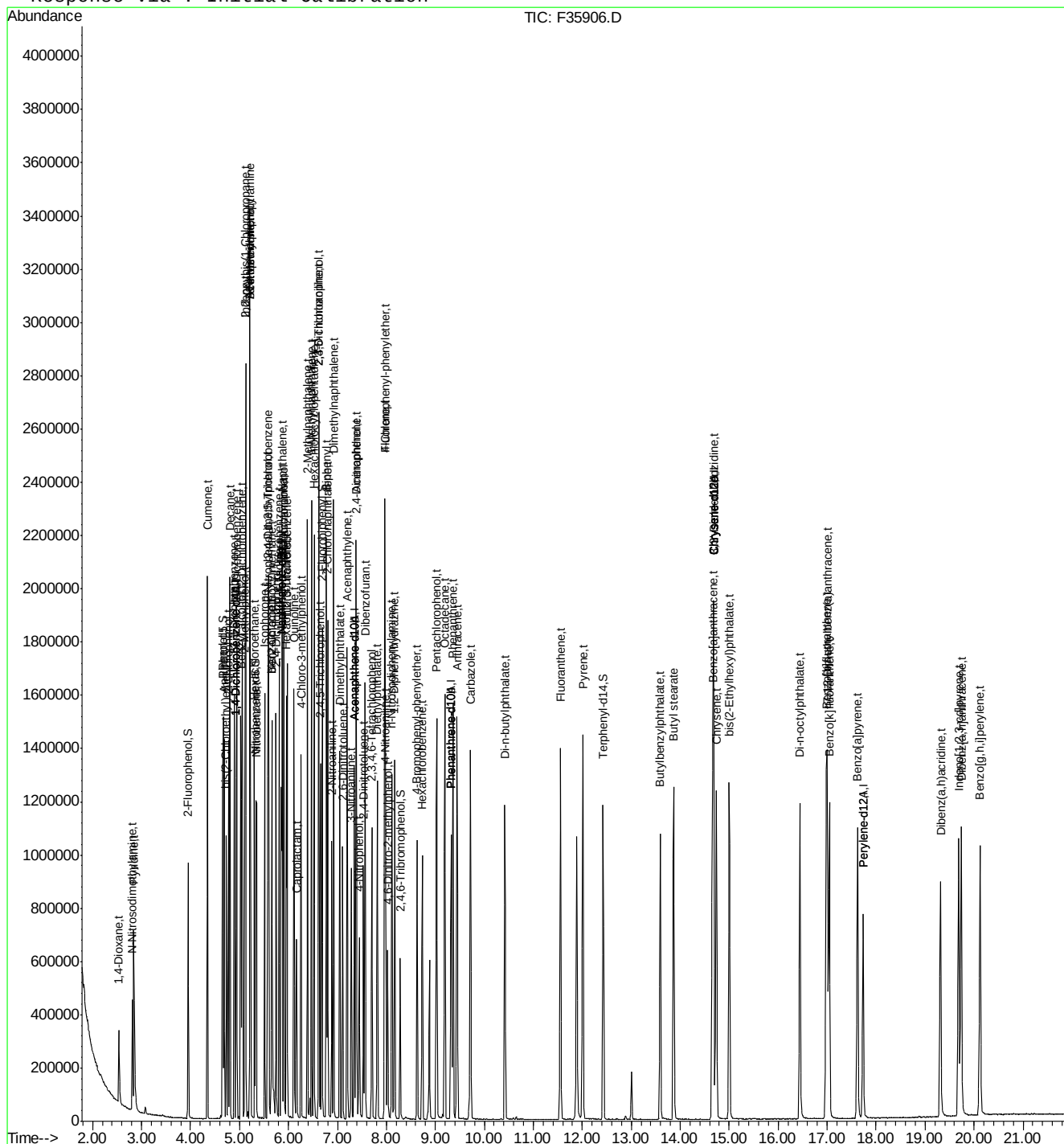
Data File   : C:\MSDCHEM\1\DATA\EF5692\F35906.D
Acq On      : 11 Jun 2014    8:36 pm
Sample      : icc5692-50
Misc        : op74333,ef5692
MS Integration Params: LSCINT.P
Quant Time  : Jun 12  8:20 2014

```

Vial: 2
Operator: ashleyd
Inst : MSF
Multiplr: 1.00

Quant Results File: MF5692.RES

Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 12 08:49:00 2014
Response via : Initial Calibration



9.6.59

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5692\F35907.D

Vial: 3

Acq On : 11 Jun 2014 9:05 pm

Operator: ashleyd

Sample : ic5692-25

Inst : MSF

Misc : op74333,ef5692

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Jun 12 08:20:44 2014

Quant Results File: MF5692.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Thu Jun 12 08:18:51 2014

Response via : Initial Calibration

DataAcq Meth : MF5692

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.93	152	188494	40.00	ppb	-0.03
24) Naphthalene-d8	5.85	136	682434	40.00	ppb	-0.03
47) Acenaphthene-d10	7.34	164	398533	40.00	ppb	-0.04
69) Phenanthrene-d10	9.32	188	639939	40.00	ppb	-0.05
83) Chrysene-d12	14.68	240	578687	40.00	ppb	-0.07
92) Perylene-d12	17.73	264	452056	40.00	ppb	-0.08
102) 1,4-Dichlorobenzene-d4A	4.93	152	188494	40.00	ppb	-0.03
112) Naphthalene-d8A	5.85	136	682434	40.00	ppb	-0.03
121) Acenaphthene-d10A	7.34	164	398533	40.00	ppb	-0.04
132) Phenanthrene-d10A	9.32	188	639939	40.00	ppb	-0.05
147) Chrysene-d12A	14.68	240	578687	40.00	ppb	-0.07
155) Perylene-d12A	17.73	264	452056	40.00	ppb	-0.08
159) 1,4-Dichlorobenzene-d4b	4.93	152	188494	40.00	ppb	-0.03
161) Naphthalene-d8b	5.85	136	682434	40.00	ppb	-0.03
163) Acenaphthene-d10b	7.34	164	398533	40.00	ppb	-0.04
165) Phenanthrene-d10b	9.32	188	639939	40.00	ppb	-0.05
167) Chrysene-d12b	14.68	240	578687	40.00	ppb	-0.07
169) 1,4-Dichlorobenzene-d4c	4.93	152	188494	40.00	ppb	-0.03
171) Naphthalene-d8c	5.85	136	682434	40.00	ppb	-0.03
176) Chrysene-d12c	14.68	240	578687	40.00	ppb	-0.07
178) Naphthalene-d8a	5.85	136	682434	40.00	ppb	0.04

System Monitoring Compounds

5) 2-Fluorophenol	3.95	112	174449	25.30	ppb	-0.03
Spiked Amount	50.000		Recovery	=	50.60%	
8) Phenol-d5	4.65	99	222178	25.53	ppb	-0.03
Spiked Amount	50.000		Recovery	=	51.06%	
25) Nitrobenzene-d5	5.33	82	176759	25.73	ppb	-0.03
Spiked Amount	50.000		Recovery	=	51.46%	
51) 2-Fluorobiphenyl	6.68	172	343149	25.36	ppb	-0.03
Spiked Amount	50.000		Recovery	=	50.72%	
73) 2,4,6-Tribromophenol	8.28	330	38952	23.35	ppb	-0.05
Spiked Amount	50.000		Recovery	=	46.70%	
85) Terphenyl-d14	12.42	244	340129	25.21	ppb	-0.06
Spiked Amount	50.000		Recovery	=	50.42%	

Target Compounds

						Qvalue
2) 1,4-Dioxane	2.54	88	86123	26.80	ppb	95
3) Pyridine	2.85	79	197788	24.56	ppb	97
4) N-Nitrosodimethylamine	2.82	42	85852	26.66	ppb	94
6) Indene	5.12	116	312666	26.73	ppb	98
7) Cumene	4.34	105	429812	26.32	ppb	98
9) Phenol	4.66	94	234660	25.96	ppb	97
10) Aniline	4.69	93	293469	26.07	ppb	99
11) bis(2-Chloroethyl)ether	4.73	93	165522	26.11	ppb	99
12) 2-Chlorophenol	4.78	128	187929	25.52	ppb	95
13) Decane	4.81	43	192524	27.64	ppb	97
14) 1,3-Dichlorobenzene	4.89	146	205493	25.84	ppb	98
15) 1,4-Dichlorobenzene	4.94	146	202043	25.72	ppb	100
16) Benzyl alcohol	5.02	108	128067	25.44	ppb	94

(#)=qualifier out of range (m)=manual integration

F35907.D MF5692.M

Thu Jun 12 08:51:07 2014

RT1

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5692\F35907.D

Vial: 3

Acq On : 11 Jun 2014 9:05 pm

Operator: ashleyd

Sample : ic5692-25

Inst : MSF

Misc : op74333,ef5692

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Jun 12 08:20:44 2014

Quant Results File: MF5692.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Thu Jun 12 08:18:51 2014

Response via : Initial Calibration

DataAcq Meth : MF5692

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
17) 1,2-Dichlorobenzene	5.05	146	191593	26.42	ppb	97
18) Acetophenone	5.22	105	242888	26.55	ppb	95
19) 2-Methylphenol	5.10	108	170712	25.58	ppb	100
20) 2,2'-oxybis(1-Chloropropan	5.12	121	57175	26.23	ppb	88
21) 3&4-Methylphenol	5.21	108	179233	26.16	ppb	96
22) n-Nitroso-di-n-propylamine	5.21	70	120298	26.73	ppb	94
23) Hexachloroethane	5.31	201	65018	25.00	ppb	97
26) Nitrobenzene	5.34	77	188922	26.18	ppb	94
27) Quinoline	6.11	129	363736	25.65	ppb	99
28) Isophorone	5.51	82	333254	26.45	ppb	97
29) 2-Nitrophenol	5.57	139	95783	25.01	ppb	81
30) 2,4-Dimethylphenol	5.59	107	169062	25.88	ppb	99
31) Benzoic acid	5.65	105	87809	19.29	ppb	96
32) bis(2-Chloroethoxy)methane	5.66	93	189625	26.12	ppb	98
33) 2,4-Dichlorophenol	5.74	162	144090	25.66	ppb	97
34) 2,6-Dichlorophenol	5.91	162	138752	25.53	ppb	99
35) 1,3,5-Trichlorobenzene	5.58	180	162133	26.08	ppb	98
36) 1,2,4-Trichlorobenzene	5.81	180	154797	26.05	ppb	97
37) 1,2,3-Trichlorobenzene	5.97	180	150517	25.84	ppb	98
38) Naphthalene	5.87	128	515681	26.82	ppb	96
39) 4-Chloroaniline	5.90	127	227672	25.99	ppb	98
40) 2,3-Dichloroaniline	6.61	161	175948	26.27	ppb	98
41) Caprolactam	6.15	55	83919	24.82	ppb	97
42) Hexachlorobutadiene	5.96	225	78925	25.31	ppb	99
43) 4-Chloro-3-methylphenol	6.25	107	149396	25.89	ppb	# 27
44) 2-Methylnaphthalene	6.38	141	300489	26.65	ppb	98
45) 1-Methylnaphthalene	6.47	142	343348	26.16	ppb	99
46) Dimethylnaphthalene	6.92	156	309249	26.14	ppb	99
48) Hexachlorocyclopentadiene	6.52	237	159924	47.66	ppb	99
49) 2,4,6-Trichlorophenol	6.61	196	96169	24.81	ppb	98
50) 2,4,5-Trichlorophenol	6.65	196	99920	24.04	ppb	98
52) 2-Chloronaphthalene	6.80	162	309514	25.41	ppb	97
53) Biphenyl	6.77	154	421683	25.71	ppb	99
54) 2-Nitroaniline	6.88	65	93212	24.39	ppb	98
55) Dimethylphthalate	7.04	163	326483	25.15	ppb	99
56) Acenaphthylene	7.20	152	509758	25.48	ppb	100
57) 2,6-Dinitrotoluene	7.11	165	77775	24.01	ppb	92
58) 3-Nitroaniline	7.28	138	95218	23.90	ppb	97
59) Acenaphthene	7.37	153	316691	25.74	ppb	98
60) 2,4-Dinitrophenol	7.38	184	68869	40.31	ppb	# 36
61) 4-Nitrophenol	7.44	109	41684	22.24	ppb	92
62) Dibenzofuran	7.56	168	437540	25.61	ppb	99
63) 2,4-Dinitrotoluene	7.53	165	104596	24.02	ppb	89
64) 2,3,4,6-Tetrachlorophenol	7.70	232	79561	23.30	ppb	99
65) Diethylphthalate	7.81	149	325338	24.91	ppb	100
66) Fluorene	7.97	166	348012	25.56	ppb	98
67) 4-Chlorophenyl-phenylether	7.96	204	155161	24.97	ppb	99
68) 4-Nitroaniline	7.98	138	93279	23.95	ppb	100
70) 4,6-Dinitro-2-methylphenol	8.02	198	51507	21.11	ppb	96

(#) = qualifier out of range (m) = manual integration

F35907.D MF5692.M

Thu Jun 12 08:51:07 2014

RT1

Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5692\F35907.D

Vial: 3

Acq On : 11 Jun 2014 9:05 pm

Operator: ashleyd

Sample : ic5692-25

Inst : MSF

Misc : op74333,ef5692

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Jun 12 08:20:44 2014

Quant Results File: MF5692.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Thu Jun 12 08:18:51 2014

Response via : Initial Calibration

DataAcq Meth : MF5692

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
71) n-Nitrosodiphenylamine	8.11	169	233147	25.07	ppb	97
72) 1,2-Diphenylhydrazine	8.16	77	364645	25.75	ppb	99
74) 4-Bromophenyl-phenylether	8.62	248	86667	24.44	ppb	99
75) Hexachlorobenzene	8.73	284	93188	24.58	ppb	99
76) Pentachlorophenol	9.02	266	108037	44.36	ppb	99
77) Phenanthrene	9.36	178	488834	25.62	ppb	99
78) Anthracene	9.44	178	501874	25.45	ppb	99
79) Carbazole	9.71	167	467713	24.50	ppb	99
80) Di-n-butylphthalate	10.42	149	540292	24.78	ppb	99
81) Fluoranthene	11.55	202	505513	24.20	ppb	99
82) Octadecane	9.18	57	246095	25.69	ppb	98
84) Pyrene	12.00	202	538033	25.91	ppb	99
86) Butylbenzylphthalate	13.59	149	223882	24.11	ppb	99
87) Butyl stearate	13.86	56	159668	24.55	ppb	98
88) Benzo[a]anthracene	14.65	228	439412	24.78	ppb	100
89) 3,3'-Dichlorobenzidine	14.68	252	155766	23.50	ppb	99
90) Chrysene	14.73	228	417379	25.21	ppb	99
91) bis(2-Ethylhexyl)phthalate	15.00	149	304227	23.91	ppb	99
93) Di-n-octylphthalate	16.44	149	490437	24.71	ppb	99
94) Benzo[b]fluoranthene	16.97	252	438294	25.16	ppb	99
95) Benzo[k]fluoranthene	17.03	252	415013	25.39	ppb	98
96) Benzo[a]pyrene	17.61	252	372023	24.28	ppb	98
97) Indeno[1,2,3-cd]pyrene	19.68	276	335877	23.24	ppb	100
98) Dibenz(a,h)acridine	19.30	279	311895	23.56	ppb	99
99) Dibenz[a,h]anthracene	19.73	278	348815	24.23	ppb	99
100) 7,12-Dimethylbenz(a)anthra	16.99	256	207255	25.01	ppb	99
101) Benzo[g,h,i]perylene	20.11	276	354208	24.40	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 F35907.D MF5692.M Thu Jun 12 08:51:07 2014 RT1

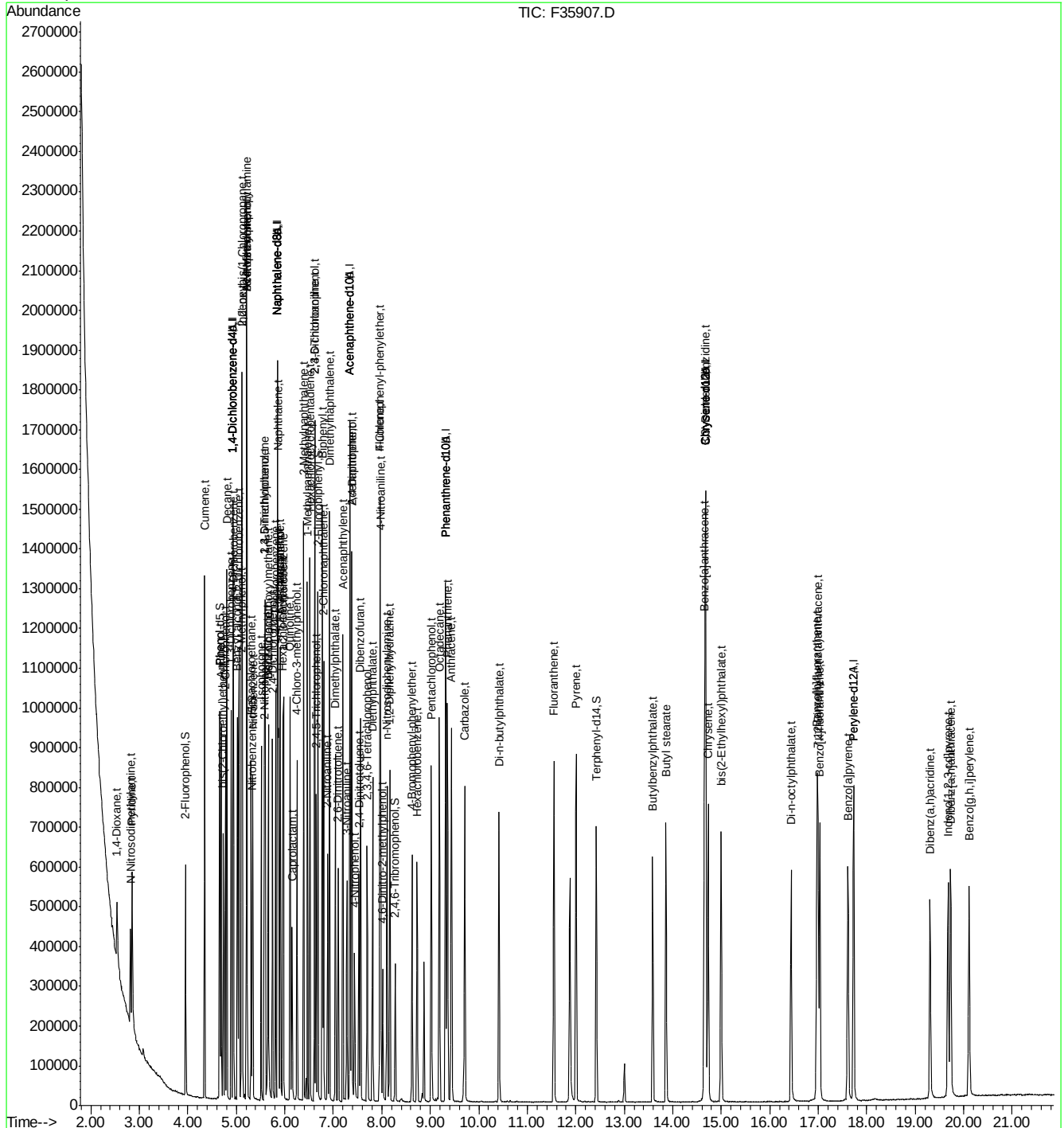
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5692\F35907.D
Acq On : 11 Jun 2014 9:05 pm
Sample : ic5692-25
Misc : op74333,ef5692
MS Integration Params: LSCINT.P
Quant Time: Jun 12 8:22 2014

Vial: 3
Operator: ashleyd
Inst : MSF
Multiplr: 1.00

Quant Results File: MF5692.RES

Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 12 08:49:00 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5692\F35908.D

Vial: 4

Acq On : 11 Jun 2014 9:35 pm

Operator: ashleyd

Sample : ic5692-100

Inst : MSF

Misc : op74333,ef5692

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Jun 12 08:22:33 2014

Quant Results File: MF5692.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Thu Jun 12 08:18:51 2014

Response via : Initial Calibration

DataAcq Meth : MF5692

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.93	152	157675	40.00	ppb	-0.03
24) Naphthalene-d8	5.86	136	568421	40.00	ppb	-0.03
47) Acenaphthene-d10	7.35	164	320504	40.00	ppb	-0.03
69) Phenanthrene-d10	9.32	188	521946	40.00	ppb	-0.05
83) Chrysene-d12	14.69	240	493517	40.00	ppb	-0.06
92) Perylene-d12	17.74	264	413996	40.00	ppb	-0.07
102) 1,4-Dichlorobenzene-d4A	4.93	152	157675	40.00	ppb	-0.03
112) Naphthalene-d8A	5.86	136	568421	40.00	ppb	-0.03
121) Acenaphthene-d10A	7.35	164	320504	40.00	ppb	-0.03
132) Phenanthrene-d10A	9.32	188	521946	40.00	ppb	-0.05
147) Chrysene-d12A	14.69	240	493517	40.00	ppb	-0.06
155) Perylene-d12A	17.74	264	413996	40.00	ppb	-0.07
159) 1,4-Dichlorobenzene-d4b	4.93	152	157675	40.00	ppb	-0.03
161) Naphthalene-d8b	5.86	136	568421	40.00	ppb	-0.03
163) Acenaphthene-d10b	7.35	164	320504	40.00	ppb	-0.03
165) Phenanthrene-d10b	9.32	188	521946	40.00	ppb	-0.05
167) Chrysene-d12b	14.69	240	493517	40.00	ppb	-0.06
169) 1,4-Dichlorobenzene-d4c	4.93	152	157675	40.00	ppb	-0.03
171) Naphthalene-d8c	5.86	136	568421	40.00	ppb	-0.03
176) Chrysene-d12c	14.69	240	493517	40.00	ppb	-0.06
178) Naphthalene-d8a	5.86	136	568421	40.00	ppb	0.05

System Monitoring Compounds

5) 2-Fluorophenol	3.95	112	535789	92.90	ppb	-0.02
Spiked Amount	50.000		Recovery	=	185.80%	
8) Phenol-d5	4.66	99	667014	91.63	ppb	-0.02
Spiked Amount	50.000		Recovery	=	183.26%	
25) Nitrobenzene-d5	5.33	82	525997	91.93	ppb	-0.03
Spiked Amount	50.000		Recovery	=	183.86%	
51) 2-Fluorobiphenyl	6.69	172	968359	88.98	ppb	-0.03
Spiked Amount	50.000		Recovery	=	177.96%	
73) 2,4,6-Tribromophenol	8.29	330	121432	89.24	ppb	-0.04
Spiked Amount	50.000		Recovery	=	178.48%	
85) Terphenyl-d14	12.43	244	1055470	91.72	ppb	-0.06
Spiked Amount	50.000		Recovery	=	183.44%	

Target Compounds

						Qvalue
2) 1,4-Dioxane	2.53	88	248222	92.36	ppb	99
3) Pyridine	2.84	79	626563	93.02	ppb	99
4) N-Nitrosodimethylamine	2.81	42	246348	91.46	ppb	99
6) Indene	5.12	116	862196	88.10	ppb	99
7) Cumene	4.34	105	1201289	87.95	ppb	99
9) Phenol	4.67	94	735859	97.31	ppb	86
10) Aniline	4.69	93	850744	90.34	ppb	99
11) bis(2-Chloroethyl)ether	4.73	93	492150	92.81	ppb	96
12) 2-Chlorophenol	4.78	128	557466	90.50	ppb	97
13) Decane	4.81	43	500989	86.00	ppb	98
14) 1,3-Dichlorobenzene	4.89	146	599759	90.15	ppb	99
15) 1,4-Dichlorobenzene	4.94	146	591934	90.09	ppb	98
16) Benzyl alcohol	5.03	108	390316	92.70	ppb	97

(#)=qualifier out of range (m)=manual integration

F35908.D MF5692.M

Thu Jun 12 08:51:13 2014

RT1

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5692\F35908.D

Vial: 4

Acq On : 11 Jun 2014 9:35 pm

Operator: ashleyd

Sample : ic5692-100

Inst : MSF

Misc : op74333,ef5692

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Jun 12 08:22:33 2014

Quant Results File: MF5692.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Thu Jun 12 08:18:51 2014

Response via : Initial Calibration

DataAcq Meth : MF5692

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
17) 1,2-Dichlorobenzene	5.06	146	542464	89.42	ppb	98
18) Acetophenone	5.23	105	667552	87.23	ppb	95
19) 2-Methylphenol	5.11	108	507552	90.91	ppb	98
20) 2,2'-oxybis(1-Chloropropan	5.12	121	165794	90.93	ppb	# 80
21) 3&4-Methylphenol	5.21	108	511631	89.26	ppb	100
22) n-Nitroso-di-n-propylamine	5.22	70	323611	85.97	ppb	99
23) Hexachloroethane	5.31	201	196796	90.44	ppb	99
26) Nitrobenzene	5.35	77	546349	90.91	ppb	97
27) Quinoline	6.12	129	1087837	92.08	ppb	99
28) Isophorone	5.52	82	949739	90.50	ppb	98
29) 2-Nitrophenol	5.58	139	292366	91.67	ppb	84
30) 2,4-Dimethylphenol	5.60	107	498574	91.64	ppb	98
31) Benzoic acid	5.69	105	409384	108.00	ppb	99
32) bis(2-Chloroethoxy)methane	5.66	93	554761	91.73	ppb	99
33) 2,4-Dichlorophenol	5.75	162	427165	91.32	ppb	98
34) 2,6-Dichlorophenol	5.91	162	407654	90.06	ppb	98
35) 1,3,5-Trichlorobenzene	5.59	180	457413	88.32	ppb	98
36) 1,2,4-Trichlorobenzene	5.81	180	448692	90.64	ppb	99
37) 1,2,3-Trichlorobenzene	5.97	180	433846	89.42	ppb	98
38) Naphthalene	5.87	128	1407715	87.89	ppb	96
39) 4-Chloroaniline	5.90	127	656853	90.02	ppb	98
40) 2,3-Dichloroaniline	6.62	161	494577	88.66	ppb	97
41) Caprolactam	6.18	55	269109	95.56	ppb	99
42) Hexachlorobutadiene	5.96	225	233523	89.91	ppb	98
43) 4-Chloro-3-methylphenol	6.26	107	449673	93.56	ppb	94
44) 2-Methylnaphthalene	6.39	141	838722	89.32	ppb	98
45) 1-Methylnaphthalene	6.47	142	974530	89.15	ppb	98
46) Dimethylnaphthalene	6.92	156	882529	89.56	ppb	99
48) Hexachlorocyclopentadiene	6.52	237	501840	185.96	ppb	100
49) 2,4,6-Trichlorophenol	6.62	196	280023	89.85	ppb	98
50) 2,4,5-Trichlorophenol	6.66	196	304954	91.25	ppb	98
52) 2-Chloronaphthalene	6.81	162	879700	89.80	ppb	98
53) Biphenyl	6.78	154	1173254	88.94	ppb	99
54) 2-Nitroaniline	6.89	65	294878	95.94	ppb	95
55) Dimethylphthalate	7.05	163	949233	90.94	ppb	99
56) Acenaphthylene	7.20	152	1440910	89.57	ppb	99
57) 2,6-Dinitrotoluene	7.11	165	246784	94.73	ppb	97
58) 3-Nitroaniline	7.29	138	298279	93.09	ppb	99
59) Acenaphthene	7.38	153	902287	91.19	ppb	99
60) 2,4-Dinitrophenol	7.39	184	283821	206.59	ppb	# 59
61) 4-Nitrophenol	7.45	109	146839	97.42	ppb	97
62) Dibenzofuran	7.57	168	1225067	89.16	ppb	100
63) 2,4-Dinitrotoluene	7.54	165	328202	93.72	ppb	100
64) 2,3,4,6-Tetrachlorophenol	7.70	232	248766	90.60	ppb	95
65) Diethylphthalate	7.82	149	956901	91.11	ppb	99
66) Fluorene	7.98	166	998568	91.19	ppb	100
67) 4-Chlorophenyl-phenylether	7.97	204	452513	90.54	ppb	98
68) 4-Nitroaniline	8.00	138	306237	97.76	ppb	99
70) 4,6-Dinitro-2-methylphenol	8.04	198	196735	98.84	ppb	93

(#)=qualifier out of range (m)=manual integration

F35908.D MF5692.M

Thu Jun 12 08:51:13 2014

RT1

Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5692\F35908.D Vial: 4
 Acq On : 11 Jun 2014 9:35 pm Operator: ashleyd
 Sample : ic5692-100 Inst : MSF
 Misc : op74333,ef5692 Multiplr: 1.00
 MS Integration Params: LSCINT.P
 Quant Time: Jun 12 08:22:33 2014 Quant Results File: MF5692.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)
 Title : Semi Volatile Extractables by GC/MS
 Last Update : Thu Jun 12 08:18:51 2014
 Response via : Initial Calibration
 DataAcq Meth : MF5692

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
71) n-Nitrosodiphenylamine	8.12	169	696378	91.81	ppb	99
72) 1,2-Diphenylhydrazine	8.17	77	1057422	91.55	ppb	95
74) 4-Bromophenyl-phenylether	8.63	248	263898	91.25	ppb	99
75) Hexachlorobenzene	8.74	284	276555	89.43	ppb	98
76) Pentachlorophenol	9.03	266	367539	185.01	ppb	99
77) Phenanthrene	9.36	178	1424136	91.50	ppb	98
78) Anthracene	9.45	178	1437489	89.37	ppb	98
79) Carbazole	9.72	167	1437470	92.32	ppb	100
80) Di-n-butylphthalate	10.42	149	1652891	92.95	ppb	98
81) Fluoranthene	11.56	202	1564786	91.86	ppb	99
82) Octadecane	9.19	57	718537	91.98	ppb	97
84) Pyrene	12.02	202	1633557	92.24	ppb	98
86) Butylbenzylphthalate	13.60	149	764437	96.54	ppb	98
87) Butyl stearate	13.87	56	529532	95.46	ppb	96
88) Benzo[a]anthracene	14.67	228	1412457	93.41	ppb	99
89) 3,3'-Dichlorobenzidine	14.69	252	522916	92.49	ppb	97
90) Chrysene	14.75	228	1293188	91.59	ppb	99
91) bis(2-Ethylhexyl)phthalate	15.00	149	1032781	95.18	ppb	99
93) Di-n-octylphthalate	16.45	149	1723939	94.82	ppb	99
94) Benzo[b]fluoranthene	16.99	252	1453855	91.14	ppb	99
95) Benzo[k]fluoranthene	17.06	252	1369375	91.46	ppb	99
96) Benzo[a]pyrene	17.63	252	1300760	92.69	ppb	98
97) Indeno[1,2,3-cd]pyrene	19.70	276	1263808	95.47	ppb	97
98) Dibenz(a,h)acridine	19.32	279	1148210	94.71	ppb	99
99) Dibenz[a,h]anthracene	19.75	278	1263697	95.85	ppb	99
100) 7,12-Dimethylbenz(a)anthra	17.02	256	699697	92.20	ppb	100
101) Benzo[g,h,i]perylene	20.14	276	1258202	94.63	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 F35908.D MF5692.M Thu Jun 12 08:51:13 2014 RT1

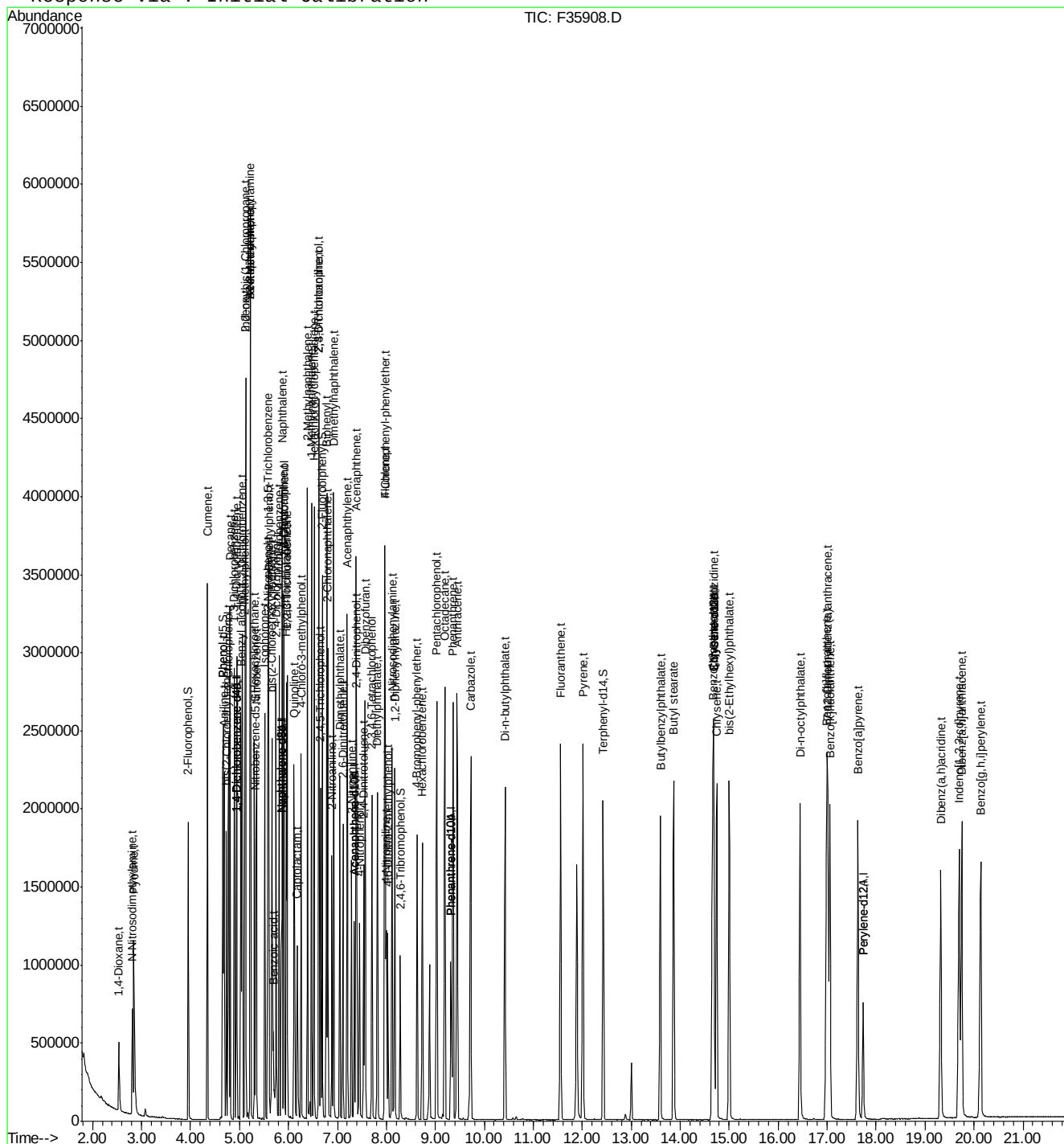
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5692\F35908.D
Acq On : 11 Jun 2014 9:35 pm
Sample : ic5692-100
Misc : op74333,ef5692
MS Integration Params: LSCINT.P
Quant Time: Jun 12 8:23 2014

Vial: 4
Operator: ashleyd
Inst : MSF
Multiplr: 1.00

Quant Results File: MF5692.RES

Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 12 08:49:00 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5692\F35909.D

Vial: 5

Acq On : 11 Jun 2014 10:04 pm

Operator: ashleyd

Sample : ic5692-80

Inst : MSF

Misc : op74333,ef5692

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Jun 12 08:24:14 2014

Quant Results File: MF5692.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Thu Jun 12 08:18:51 2014

Response via : Initial Calibration

DataAcq Meth : MF5692

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.93	152	183501	40.00	ppb	-0.03
24) Naphthalene-d8	5.86	136	656201	40.00	ppb	-0.03
47) Acenaphthene-d10	7.35	164	369423	40.00	ppb	-0.03
69) Phenanthrene-d10	9.32	188	595800	40.00	ppb	-0.05
83) Chrysene-d12	14.68	240	495225	40.00	ppb	-0.06
92) Perylene-d12	17.73	264	407040	40.00	ppb	-0.08
102) 1,4-Dichlorobenzene-d4A	4.93	152	183501	40.00	ppb	-0.03
112) Naphthalene-d8A	5.86	136	656201	40.00	ppb	-0.03
121) Acenaphthene-d10A	7.35	164	369423	40.00	ppb	-0.03
132) Phenanthrene-d10A	9.32	188	595800	40.00	ppb	-0.05
147) Chrysene-d12A	14.68	240	495225	40.00	ppb	-0.06
155) Perylene-d12A	17.73	264	407040	40.00	ppb	-0.08
159) 1,4-Dichlorobenzene-d4b	4.93	152	183501	40.00	ppb	-0.03
161) Naphthalene-d8b	5.86	136	656201	40.00	ppb	-0.03
163) Acenaphthene-d10b	7.35	164	369423	40.00	ppb	-0.03
165) Phenanthrene-d10b	9.32	188	595800	40.00	ppb	-0.05
167) Chrysene-d12b	14.68	240	495225	40.00	ppb	-0.06
169) 1,4-Dichlorobenzene-d4c	4.93	152	183501	40.00	ppb	-0.03
171) Naphthalene-d8c	5.86	136	656201	40.00	ppb	-0.03
176) Chrysene-d12c	14.68	240	495225	40.00	ppb	-0.06
178) Naphthalene-d8a	5.86	136	656201	40.00	ppb	0.05

System Monitoring Compounds

5) 2-Fluorophenol	3.95	112	525120	78.24	ppb	-0.02
Spiked Amount	50.000		Recovery	=	156.48%	
8) Phenol-d5	4.66	99	654482	77.25	ppb	-0.02
Spiked Amount	50.000		Recovery	=	154.50%	
25) Nitrobenzene-d5	5.33	82	513611	77.76	ppb	-0.03
Spiked Amount	50.000		Recovery	=	155.52%	
51) 2-Fluorobiphenyl	6.69	172	943806	75.24	ppb	-0.03
Spiked Amount	50.000		Recovery	=	150.48%	
73) 2,4,6-Tribromophenol	8.29	330	113741	73.23	ppb	-0.04
Spiked Amount	50.000		Recovery	=	146.46%	
85) Terphenyl-d14	12.43	244	928252	80.38	ppb	-0.06
Spiked Amount	50.000		Recovery	=	160.76%	

Target Compounds

						Qvalue
2) 1,4-Dioxane	2.54	88	237083	75.80	ppb	97
3) Pyridine	2.85	79	602980	76.92	ppb	99
4) N-Nitrosodimethylamine	2.82	42	248075	79.14	ppb	95
6) Indene	5.12	116	852305	74.83	ppb	99
7) Cumene	4.34	105	1182606	74.40	ppb	99
9) Phenol	4.67	94	731927	83.17	ppb	85
10) Aniline	4.69	93	835479	76.23	ppb	99
11) bis(2-Chloroethyl)ether	4.73	93	481198	77.97	ppb	97
12) 2-Chlorophenol	4.78	128	541134	75.49	ppb	95
13) Decane	4.81	43	508295	74.97	ppb	98
14) 1,3-Dichlorobenzene	4.89	146	579507	74.85	ppb	98
15) 1,4-Dichlorobenzene	4.94	146	569697	74.50	ppb	98
16) Benzyl alcohol	5.03	108	381395	77.83	ppb	95

(#)=qualifier out of range (m)=manual integration

F35909.D MF5692.M

Thu Jun 12 08:51:20 2014

RT1

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5692\F35909.D

Vial: 5

Acq On : 11 Jun 2014 10:04 pm

Operator: ashleyd

Sample : ic5692-80

Inst : MSF

Misc : op74333,ef5692

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Jun 12 08:24:14 2014

Quant Results File: MF5692.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Thu Jun 12 08:18:51 2014

Response via : Initial Calibration

DataAcq Meth : MF5692

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
17) 1,2-Dichlorobenzene	5.06	146	528937	74.92	ppb	99
18) Acetophenone	5.23	105	668106	75.02	ppb	94
19) 2-Methylphenol	5.11	108	497389	76.55	ppb	98
20) 2,2'-oxybis(1-Chloropropan	5.12	121	163278	76.95	ppb	# 83
21) 3&4-Methylphenol	5.21	108	504090	75.57	ppb	100
22) n-Nitroso-di-n-propylamine	5.22	70	322686	73.66	ppb	98
23) Hexachloroethane	5.31	201	186705	73.73	ppb	100
26) Nitrobenzene	5.35	77	539756	77.80	ppb	96
27) Quinoline	6.12	129	1039547	76.22	ppb	99
28) Isophorone	5.52	82	940185	77.61	ppb	99
29) 2-Nitrophenol	5.58	139	288185	78.27	ppb	92
30) 2,4-Dimethylphenol	5.60	107	486938	77.53	ppb	99
31) Benzoic acid	5.69	105	356790	81.53	ppb	95
32) bis(2-Chloroethoxy)methane	5.66	93	542591	77.72	ppb	100
33) 2,4-Dichlorophenol	5.75	162	415409	76.93	ppb	99
34) 2,6-Dichlorophenol	5.91	162	392425	75.10	ppb	99
35) 1,3,5-Trichlorobenzene	5.59	180	443952	74.25	ppb	99
36) 1,2,4-Trichlorobenzene	5.81	180	430521	75.34	ppb	99
37) 1,2,3-Trichlorobenzene	5.97	180	420850	75.14	ppb	99
38) Naphthalene	5.87	128	1384720	74.89	ppb	97
39) 4-Chloroaniline	5.90	127	629037	74.68	ppb	97
40) 2,3-Dichloroaniline	6.62	161	479165	74.41	ppb	97
41) Caprolactam	6.18	55	244734	75.28	ppb	96
42) Hexachlorobutadiene	5.96	225	221208	73.77	ppb	98
43) 4-Chloro-3-methylphenol	6.26	107	433122	78.06	ppb	93
44) 2-Methylnaphthalene	6.39	141	822982	75.92	ppb	99
45) 1-Methylnaphthalene	6.47	142	950781	75.35	ppb	98
46) Dimethylnaphthalene	6.92	156	851574	74.86	ppb	99
48) Hexachlorocyclopentadiene	6.52	237	483751	155.52	ppb	99
49) 2,4,6-Trichlorophenol	6.62	196	271762	75.65	ppb	98
50) 2,4,5-Trichlorophenol	6.66	196	279633	72.59	ppb	96
52) 2-Chloronaphthalene	6.80	162	851030	75.37	ppb	98
53) Biphenyl	6.78	154	1141062	75.05	ppb	98
54) 2-Nitroaniline	6.89	65	283853	80.13	ppb	94
55) Dimethylphthalate	7.05	163	913677	75.94	ppb	99
56) Acenaphthylene	7.20	152	1389434	74.93	ppb	98
57) 2,6-Dinitrotoluene	7.11	165	230560	76.78	ppb	97
58) 3-Nitroaniline	7.29	138	283440	76.75	ppb	99
59) Acenaphthene	7.38	153	863419	75.70	ppb	98
60) 2,4-Dinitrophenol	7.39	184	250866	158.42	ppb	# 57
61) 4-Nitrophenol	7.45	109	135207	77.82	ppb	96
62) Dibenzofuran	7.57	168	1178261	74.40	ppb	97
63) 2,4-Dinitrotoluene	7.54	165	308110	76.33	ppb	97
64) 2,3,4,6-Tetrachlorophenol	7.70	232	231067	73.01	ppb	96
65) Diethylphthalate	7.82	149	909459	75.13	ppb	98
66) Fluorene	7.98	166	960261	76.08	ppb	100
67) 4-Chlorophenyl-phenylether	7.97	204	429873	74.62	ppb	98
68) 4-Nitroaniline	8.00	138	277833	76.95	ppb	99
70) 4,6-Dinitro-2-methylphenol	8.03	198	173340	76.29	ppb	99

(#)=qualifier out of range (m)=manual integration

F35909.D MF5692.M

Thu Jun 12 08:51:20 2014

RT1

Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5692\F35909.D Vial: 5
 Acq On : 11 Jun 2014 10:04 pm Operator: ashleyd
 Sample : ic5692-80 Inst : MSF
 Misc : op74333,ef5692 Multiplr: 1.00
 MS Integration Params: LSCINT.P
 Quant Time: Jun 12 08:24:14 2014 Quant Results File: MF5692.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)
 Title : Semi Volatile Extractables by GC/MS
 Last Update : Thu Jun 12 08:18:51 2014
 Response via : Initial Calibration
 DataAcq Meth : MF5692

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
71) n-Nitrosodiphenylamine	8.12	169	661900	76.45	ppb	98
72) 1,2-Diphenylhydrazine	8.17	77	1027139	77.91	ppb	99
74) 4-Bromophenyl-phenylether	8.63	248	245516	74.37	ppb	97
75) Hexachlorobenzene	8.74	284	259686	73.57	ppb	98
76) Pentachlorophenol	9.03	266	329986	145.51	ppb	98
77) Phenanthrene	9.36	178	1337683	75.29	ppb	99
78) Anthracene	9.45	178	1372285	74.74	ppb	99
79) Carbazole	9.72	167	1311948	73.82	ppb	99
80) Di-n-butylphthalate	10.42	149	1541020	75.92	ppb	99
81) Fluoranthene	11.56	202	1408709	72.45	ppb	100
82) Octadecane	9.19	57	695633	78.01	ppb	98
84) Pyrene	12.02	202	1457359	82.01	ppb	99
86) Butylbenzylphthalate	13.59	149	651236	81.96	ppb	99
87) Butyl stearate	13.86	56	483279	86.82	ppb	98
88) Benzo[a]anthracene	14.66	228	1193468	78.66	ppb	99
89) 3,3'-Dichlorobenzidine	14.68	252	430326	75.85	ppb	97
90) Chrysene	14.74	228	1078685	76.14	ppb	99
91) bis(2-Ethylhexyl)phthalate	15.00	149	888937	81.64	ppb	100
93) Di-n-octylphthalate	16.44	149	1464325	81.92	ppb	100
94) Benzo[b]fluoranthene	16.99	252	1287467	82.08	ppb	99
95) Benzo[k]fluoranthene	17.05	252	1062754	72.20	ppb	99
96) Benzo[a]pyrene	17.62	252	1077982	78.12	ppb	98
97) Indeno[1,2,3-cd]pyrene	19.69	276	1055183	81.07	ppb	99
98) Dibenz(a,h)acridine	19.32	279	948365	79.56	ppb	100
99) Dibenz[a,h]anthracene	19.75	278	1058218	81.63	ppb	99
100) 7,12-Dimethylbenz(a)anthra	17.01	256	580441	77.79	ppb	99
101) Benzo[g,h,i]perylene	20.13	276	1048831	80.23	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 F35909.D MF5692.M Thu Jun 12 08:51:20 2014 RT1

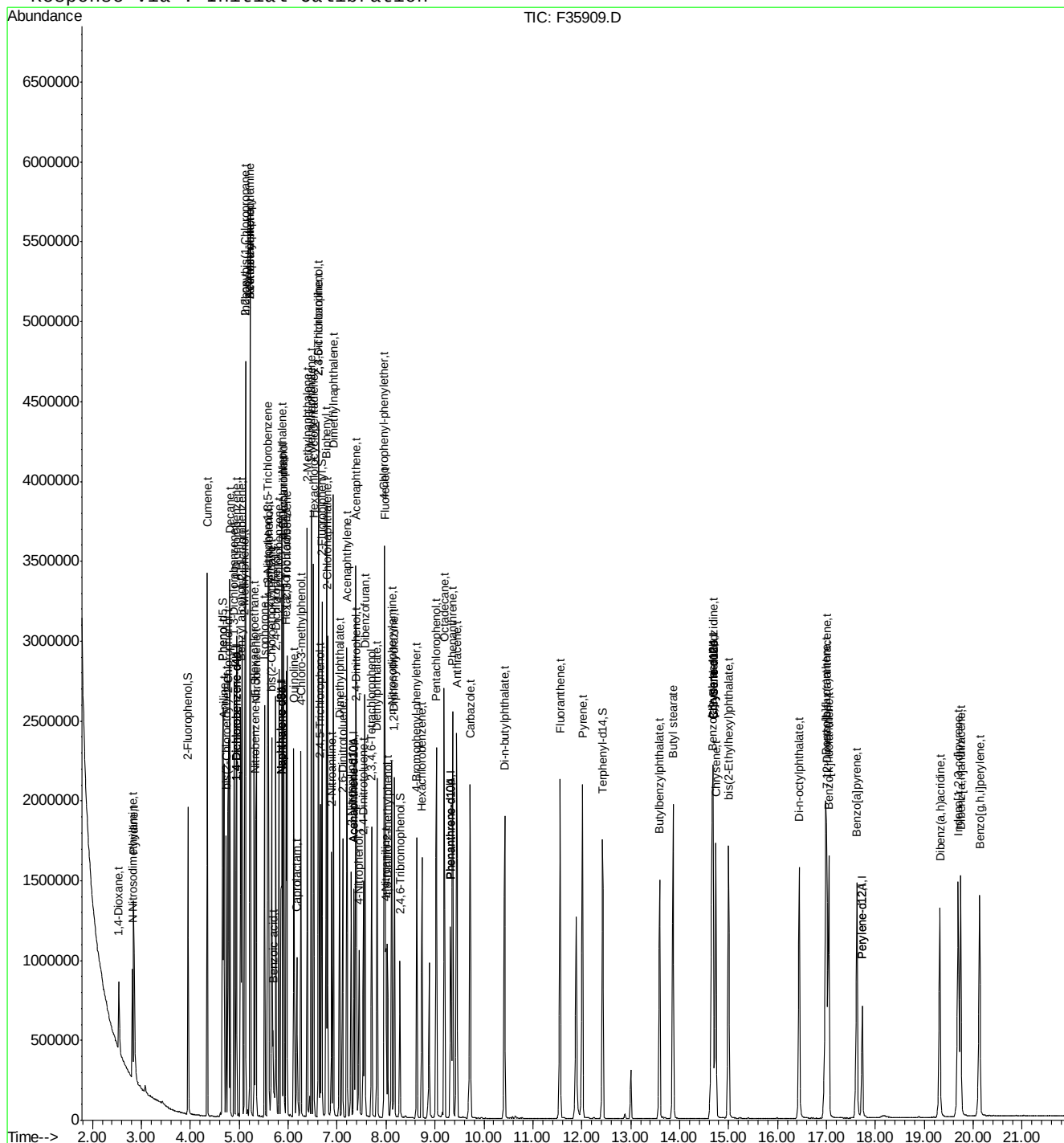
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5692\F35909.D
 Acq On : 11 Jun 2014 10:04 pm
 Sample : ic5692-80
 Misc : op74333,ef5692
 MS Integration Params: LSCINT.P
 Quant Time: Jun 12 8:25 2014

Vial: 5
 Operator: ashleyd
 Inst : MSF
 Multiplr: 1.00

Quant Results File: MF5692.RES

Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)
 Title : Semi Volatile Extractables by GC/MS
 Last Update : Thu Jun 12 08:49:00 2014
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5692\F35910.D

Vial: 6

Acq On : 11 Jun 2014 10:33 pm

Operator: ashleyd

Sample : ic5692-10

Inst : MSF

Misc : op74333,ef5692

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Jun 12 08:25:59 2014

Quant Results File: MF5692.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Thu Jun 12 08:18:51 2014

Response via : Initial Calibration

DataAcq Meth : MF5692

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.93	152	166671	40.00	ppb	-0.03
24) Naphthalene-d8	5.85	136	608656	40.00	ppb	-0.03
47) Acenaphthene-d10	7.34	164	350911	40.00	ppb	-0.04
69) Phenanthrene-d10	9.31	188	574074	40.00	ppb	-0.05
83) Chrysene-d12	14.67	240	576371	40.00	ppb	-0.07
92) Perylene-d12	17.73	264	454616	40.00	ppb	-0.09
102) 1,4-Dichlorobenzene-d4A	4.93	152	166671	40.00	ppb	-0.03
112) Naphthalene-d8A	5.85	136	608656	40.00	ppb	-0.03
121) Acenaphthene-d10A	7.34	164	350911	40.00	ppb	-0.04
132) Phenanthrene-d10A	9.31	188	574074	40.00	ppb	-0.05
147) Chrysene-d12A	14.67	240	576371	40.00	ppb	-0.07
155) Perylene-d12A	17.73	264	454616	40.00	ppb	-0.09
159) 1,4-Dichlorobenzene-d4b	4.93	152	166671	40.00	ppb	-0.03
161) Naphthalene-d8b	5.85	136	608656	40.00	ppb	-0.03
163) Acenaphthene-d10b	7.34	164	350911	40.00	ppb	-0.04
165) Phenanthrene-d10b	9.31	188	574074	40.00	ppb	-0.05
167) Chrysene-d12b	14.67	240	576371	40.00	ppb	-0.07
169) 1,4-Dichlorobenzene-d4c	4.93	152	166671	40.00	ppb	-0.03
171) Naphthalene-d8c	5.85	136	608656	40.00	ppb	-0.03
176) Chrysene-d12c	14.67	240	576371	40.00	ppb	-0.07
178) Naphthalene-d8a	5.85	136	608656	40.00	ppb	0.04

System Monitoring Compounds

5) 2-Fluorophenol	3.95	112	62496	10.25	ppb	-0.03
Spiked Amount	50.000		Recovery	=	20.50%	
8) Phenol-d5	4.65	99	78226	10.17	ppb	-0.03
Spiked Amount	50.000		Recovery	=	20.34%	
25) Nitrobenzene-d5	5.33	82	68954	11.25	ppb	-0.03
Spiked Amount	50.000		Recovery	=	22.50%	
51) 2-Fluorobiphenyl	6.68	172	127509	10.70	ppb	-0.03
Spiked Amount	50.000		Recovery	=	21.40%	
73) 2,4,6-Tribromophenol	8.28	330	14556	9.73	ppb	-0.05
Spiked Amount	50.000		Recovery	=	19.46%	
85) Terphenyl-d14	12.42	244	134866	10.03	ppb	-0.06
Spiked Amount	50.000		Recovery	=	20.06%	

Target Compounds

						Qvalue
2) 1,4-Dioxane	2.54	88	30414	10.71	ppb	99
3) Pyridine	2.85	79	71673	10.07	ppb	96
4) N-Nitrosodimethylamine	2.82	42	29493	10.36	ppb	95
6) Indene	5.12	116	114160	11.04	ppb	97
7) Cumene	4.34	105	156429	10.83	ppb	98
9) Phenol	4.66	94	82651	10.34	ppb	90
10) Aniline	4.69	93	104949	10.54	ppb	99
11) bis(2-Chloroethyl)ether	4.73	93	58893	10.51	ppb	98
12) 2-Chlorophenol	4.78	128	68954	10.59	ppb	97
13) Decane	4.81	43	70398	11.43	ppb	97
14) 1,3-Dichlorobenzene	4.89	146	75184	10.69	ppb	97
15) 1,4-Dichlorobenzene	4.94	146	74532	10.73	ppb	98
16) Benzyl alcohol	5.02	108	45891	10.31	ppb	97

(#)=qualifier out of range (m)=manual integration

F35910.D MF5692.M

Thu Jun 12 08:51:27 2014

RT1

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5692\F35910.D

Vial: 6

Acq On : 11 Jun 2014 10:33 pm

Operator: ashleyd

Sample : ic5692-10

Inst : MSF

Misc : op74333,ef5692

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Jun 12 08:25:59 2014

Quant Results File: MF5692.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Thu Jun 12 08:18:51 2014

Response via : Initial Calibration

DataAcq Meth : MF5692

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
17) 1,2-Dichlorobenzene	5.05	146	70927	11.06	ppb	98
18) Acetophenone	5.21	105	90644	11.21	ppb	97
19) 2-Methylphenol	5.10	108	60361	10.23	ppb	100
20) 2,2'-oxybis(1-Chloropropan	5.12	121	20403	10.59	ppb #	69
21) 3&4-Methylphenol	5.21	108	63334	10.45	ppb	96
22) n-Nitroso-di-n-propylamine	5.21	70	44717	11.24	ppb	97
23) Hexachloroethane	5.31	201	23388	10.17	ppb	95
26) Nitrobenzene	5.34	77	67176	10.44	ppb	96
27) Quinoline	6.11	129	133242	10.53	ppb	99
28) Isophorone	5.51	82	116678	10.38	ppb	99
29) 2-Nitrophenol	5.57	139	33553	9.82	ppb	91
30) 2,4-Dimethylphenol	5.59	107	62747	10.77	ppb	98
31) Benzoic acid	5.64	105	25307	6.23	ppb	96
32) bis(2-Chloroethoxy)methane	5.66	93	69641	10.75	ppb	97
33) 2,4-Dichlorophenol	5.74	162	52076	10.40	ppb	98
34) 2,6-Dichlorophenol	5.91	162	51851	10.70	ppb	97
35) 1,3,5-Trichlorobenzene	5.58	180	61323	11.06	ppb	99
36) 1,2,4-Trichlorobenzene	5.81	180	56933	10.74	ppb	98
37) 1,2,3-Trichlorobenzene	5.97	180	56120	10.80	ppb	98
38) Naphthalene	5.87	128	191646	11.17	ppb	95
39) 4-Chloroaniline	5.90	127	84350	10.80	ppb	97
40) 2,3-Dichloroaniline	6.61	161	66891	11.20	ppb	99
41) Caprolactam	6.13	55	28914	9.59	ppb	97
42) Hexachlorobutadiene	5.96	225	28714	10.32	ppb	97
43) 4-Chloro-3-methylphenol	6.25	107	52055	10.11	ppb	94
44) 2-Methylnaphthalene	6.38	141	109933	10.93	ppb	99
45) 1-Methylnaphthalene	6.46	142	125572	10.73	ppb	99
46) Dimethylnaphthalene	6.92	156	114132	10.82	ppb	99
48) Hexachlorocyclopentadiene	6.52	237	55665	18.84	ppb	100
49) 2,4,6-Trichlorophenol	6.61	196	36151	10.59	ppb	96
50) 2,4,5-Trichlorophenol	6.65	196	37615	10.28	ppb	98
52) 2-Chloronaphthalene	6.80	162	118210	11.02	ppb	96
53) Biphenyl	6.77	154	157061	10.87	ppb	99
54) 2-Nitroaniline	6.88	65	31716	9.43	ppb	95
55) Dimethylphthalate	7.04	163	120652	10.56	ppb	99
56) Acenaphthylene	7.20	152	186688	10.60	ppb	98
57) 2,6-Dinitrotoluene	7.10	165	27754	9.73	ppb	97
58) 3-Nitroaniline	7.28	138	33714	9.61	ppb	95
59) Acenaphthene	7.37	153	117563	10.85	ppb	98
60) 2,4-Dinitrophenol	7.38	184	19122	12.71	ppb #	79
61) 4-Nitrophenol	7.44	109	15650	9.48	ppb	96
62) Dibenzofuran	7.56	168	164247	10.92	ppb	97
63) 2,4-Dinitrotoluene	7.53	165	37283	9.72	ppb	80
64) 2,3,4,6-Tetrachlorophenol	7.70	232	28937	9.63	ppb	99
65) Diethylphthalate	7.81	149	119794	10.42	ppb	99
66) Fluorene	7.97	166	129982	10.84	ppb	97
67) 4-Chlorophenyl-phenylether	7.96	204	58431	10.68	ppb	100
68) 4-Nitroaniline	7.97	138	35680	10.40	ppb	96
70) 4,6-Dinitro-2-methylphenol	8.01	198	16816	7.68	ppb	98

(#) = qualifier out of range (m) = manual integration

F35910.D MF5692.M

Thu Jun 12 08:51:27 2014

RT1

Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5692\F35910.D Vial: 6
 Acq On : 11 Jun 2014 10:33 pm Operator: ashleyd
 Sample : ic5692-10 Inst : MSF
 Misc : op74333,ef5692 Multiplr: 1.00
 MS Integration Params: LSCINT.P
 Quant Time: Jun 12 08:25:59 2014 Quant Results File: MF5692.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)
 Title : Semi Volatile Extractables by GC/MS
 Last Update : Thu Jun 12 08:18:51 2014
 Response via : Initial Calibration
 DataAcq Meth : MF5692

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
71) n-Nitrosodiphenylamine	8.10	169	87105	10.44	ppb	99
72) 1,2-Diphenylhydrazine	8.16	77	131398	10.34	ppb	98
74) 4-Bromophenyl-phenylether	8.62	248	31922	10.04	ppb	97
75) Hexachlorobenzene	8.72	284	36097	10.61	ppb	98
76) Pentachlorophenol	9.02	266	40759	18.65	ppb	99
77) Phenanthrene	9.35	178	183499	10.72	ppb	99
78) Anthracene	9.44	178	184468	10.43	ppb	100
79) Carbazole	9.71	167	184121	10.75	ppb	99
80) Di-n-butylphthalate	10.41	149	195250	9.98	ppb	99
81) Fluoranthene	11.55	202	196387	10.48	ppb	99
82) Octadecane	9.18	57	85890	10.00	ppb	98
84) Pyrene	12.00	202	212371	10.27	ppb	99
86) Butylbenzylphthalate	13.59	149	85697	9.27	ppb	97
87) Butyl stearate	13.86	56	55928	8.63	ppb	99
88) Benzo[a]anthracene	14.65	228	184209	10.43	ppb	100
89) 3,3'-Dichlorobenzidine	14.67	252	63648	9.64	ppb	99
90) Chrysene	14.72	228	176575	10.71	ppb	98
91) bis(2-Ethylhexyl)phthalate	15.00	149	115511	9.12	ppb	99
93) Di-n-octylphthalate	16.44	149	176869	8.86	ppb	99
94) Benzo[b]fluoranthene	16.97	252	180221	10.29	ppb	99
95) Benzo[k]fluoranthene	17.03	252	182503	11.10	ppb	98
96) Benzo[a]pyrene	17.61	252	154581	10.03	ppb	99
97) Indeno[1,2,3-cd]pyrene	19.67	276	136267	9.37	ppb	97
98) Dibenz(a,h)acridine	19.30	279	125380	9.42	ppb	99
99) Dibenz[a,h]anthracene	19.72	278	139590	9.64	ppb	98
100) 7,12-Dimethylbenz(a)anthra	16.98	256	85562	10.27	ppb	98
101) Benzo[g,h,i]perylene	20.10	276	143236	9.81	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 F35910.D MF5692.M Thu Jun 12 08:51:27 2014 RT1

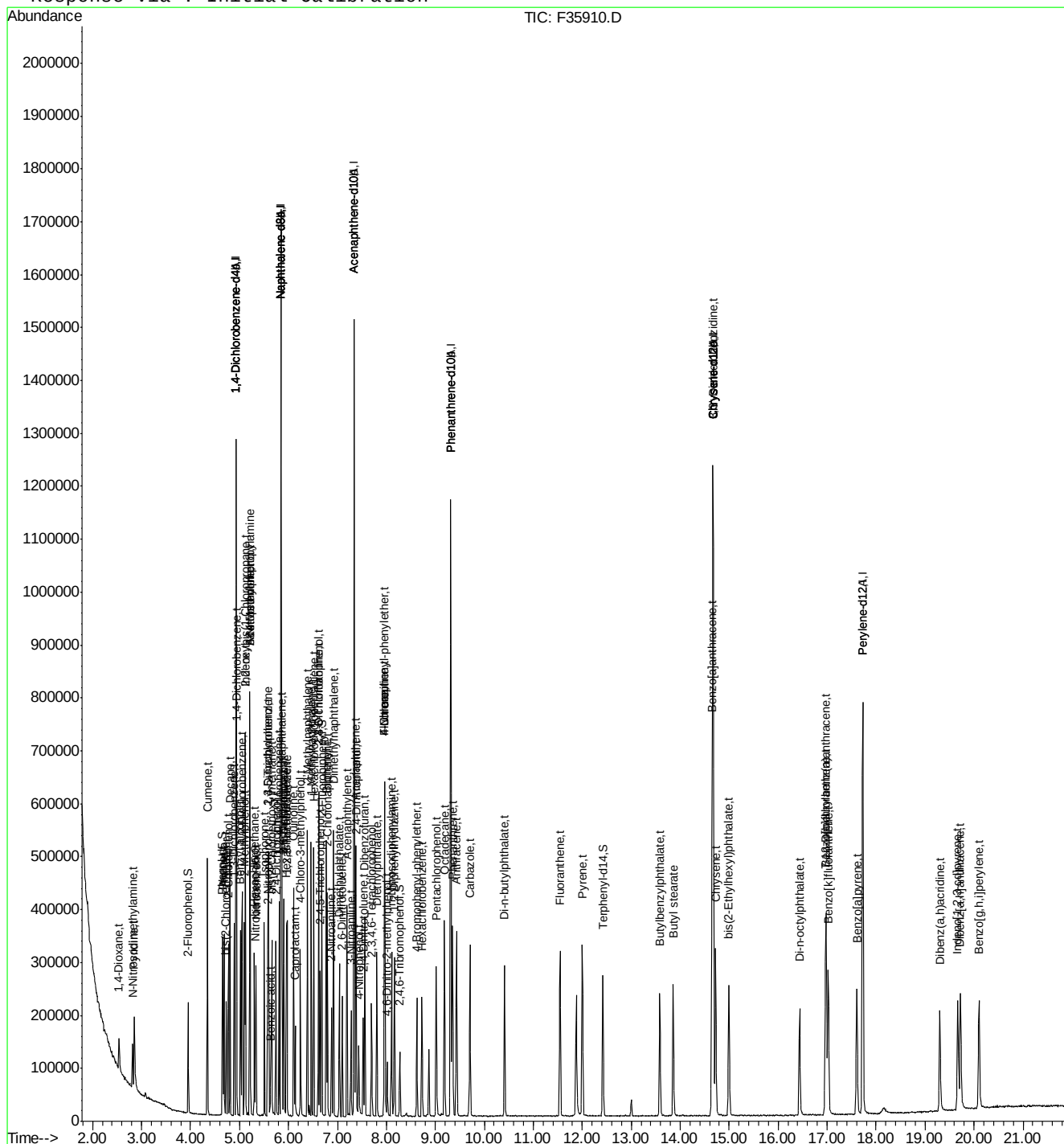
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5692\F35910.D
Acq On : 11 Jun 2014 10:33 pm
Sample : ic5692-10
Misc : op74333,ef5692
MS Integration Params: LSCINT.P
Quant Time: Jun 12 8:28 2014

Vial: 6
Operator: ashleyd
Inst : MSF
Multiplr: 1.00

Quant Results File: MF5692.RES

Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 12 08:49:00 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5692\F35911.D
 Acq On : 11 Jun 2014 11:02 pm
 Sample : ic5692-5
 Misc : op74333,ef5692
 MS Integration Params: LSCINT.P
 Quant Time: Jun 12 08:42:03 2014

Vial: 7
 Operator: ashleyd
 Inst : MSF
 Multiplr: 1.00

Quant Results File: MF5692.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)
 Title : Semi Volatile Extractables by GC/MS
 Last Update : Thu Jun 12 08:42:00 2014
 Response via : Initial Calibration
 DataAcq Meth : MF5692

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.93	152	184575	40.00	ppb	0.00
24) Naphthalene-d8	5.85	136	670411	40.00	ppb	0.00
47) Acenaphthene-d10	7.34	164	383948	40.00	ppb	0.00
69) Phenanthrene-d10	9.31	188	619445	40.00	ppb	-0.01
83) Chrysene-d12	14.67	240	591793	40.00	ppb	-0.01
92) Perylene-d12	17.73	264	472188	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4A	4.93	152	184575	40.00	ppb	0.00
112) Naphthalene-d8A	5.85	136	670411	40.00	ppb	0.00
121) Acenaphthene-d10A	7.34	164	383948	40.00	ppb	0.00
132) Phenanthrene-d10A	9.31	188	619445	40.00	ppb	-0.01
147) Chrysene-d12A	14.67	240	591793	40.00	ppb	-0.01
155) Perylene-d12A	17.73	264	472188	40.00	ppb	0.00
159) 1,4-Dichlorobenzene-d4b	4.93	152	184575	40.00	ppb	0.00
161) Naphthalene-d8b	5.85	136	670411	40.00	ppb	0.00
163) Acenaphthene-d10b	7.34	164	383948	40.00	ppb	0.00
165) Phenanthrene-d10b	9.31	188	619445	40.00	ppb	-0.01
167) Chrysene-d12b	14.67	240	591793	40.00	ppb	-0.01
169) 1,4-Dichlorobenzene-d4c	4.93	152	184575	40.00	ppb	0.00
171) Naphthalene-d8c	5.85	136	670411	40.00	ppb	0.00
176) Chrysene-d12c	14.67	240	591793	40.00	ppb	-0.01
178) Naphthalene-d8a	5.85	136	670411	40.00	ppb	0.04

System Monitoring Compounds

5) 2-Fluorophenol	3.95	112	34606	5.20	ppb	0.00
Spiked Amount 50.000			Recovery	=	10.40%	
8) Phenol-d5	4.65	99	44464	5.33	ppb	0.00
Spiked Amount 50.000			Recovery	=	10.66%	
25) Nitrobenzene-d5	5.33	82	40323	5.70	ppb	0.00
Spiked Amount 50.000			Recovery	=	11.40%	
51) 2-Fluorobiphenyl	6.68	172	72650	5.43	ppb	0.00
Spiked Amount 50.000			Recovery	=	10.86%	
73) 2,4,6-Tribromophenol	8.28	330	6816	4.90	ppb	0.00
Spiked Amount 50.000			Recovery	=	9.80%	
85) Terphenyl-d14	12.42	244	70202	5.22	ppb	-0.01
Spiked Amount 50.000			Recovery	=	10.44%	

Target Compounds

						Qvalue
2) 1,4-Dioxane	2.54	88	14654m	4.46	ppb	
3) Pyridine	2.85	79	39934	5.14	ppb	98
4) N-Nitrosodimethylamine	2.82	42	17372	5.23	ppb	95
6) Indene	5.12	116	68022	5.65	ppb	95
7) Cumene	4.34	105	91847	5.54	ppb	95
9) Phenol	4.66	94	49052	5.36	ppb	94
10) Aniline	4.69	93	61461	5.48	ppb	97
11) bis(2-Chloroethyl)ether	4.73	93	35404	5.45	ppb	98
12) 2-Chlorophenol	4.78	128	38945	5.38	ppb	95
13) Decane	4.81	43	42722	5.73	ppb	94
14) 1,3-Dichlorobenzene	4.89	146	43721	5.48	ppb	97
15) 1,4-Dichlorobenzene	4.94	146	42880	5.41	ppb	98
16) Benzyl alcohol	5.02	108	24822	5.15	ppb	92

(#) = qualifier out of range (m) = manual integration

F35911.D MF5692.M

Thu Jun 12 08:51:33 2014

RT1

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5692\F35911.D

Vial: 7

Acq On : 11 Jun 2014 11:02 pm

Operator: ashleyd

Sample : ic5692-5

Inst : MSF

Misc : op74333,ef5692

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Jun 12 08:42:03 2014

Quant Results File: MF5692.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Thu Jun 12 08:42:00 2014

Response via : Initial Calibration

DataAcq Meth : MF5692

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
17) 1,2-Dichlorobenzene	5.05	146	41437	5.56	ppb	94
18) Acetophenone	5.21	105	52673	5.56	ppb	97
19) 2-Methylphenol	5.10	108	34733	5.30	ppb	98
20) 2,2'-oxybis(1-Chloropropan	5.12	121	12138	5.52	ppb #	75
21) 3&4-Methylphenol	5.21	108	37363	5.55	ppb	97
22) n-Nitroso-di-n-propylamine	5.21	70	25901	5.65	ppb	92
23) Hexachloroethane	5.31	201	13202	5.29	ppb	96
26) Nitrobenzene	5.34	77	38997	5.41	ppb	92
27) Quinoline	6.11	129	76769	5.42	ppb	99
28) Isophorone	5.51	82	67786	5.42	ppb	95
29) 2-Nitrophenol	5.57	139	17402	5.05	ppb	88
30) 2,4-Dimethylphenol	5.59	107	35383	5.41	ppb	98
31) Benzoic acid	5.63	105	9386	5.72	ppb	97
32) bis(2-Chloroethoxy)methane	5.66	93	40548	5.51	ppb	96
33) 2,4-Dichlorophenol	5.74	162	27678	5.20	ppb	99
34) 2,6-Dichlorophenol	5.91	162	28932	5.78	ppb	97
35) 1,3,5-Trichlorobenzene	5.58	180	34520	5.42	ppb	98
36) 1,2,4-Trichlorobenzene	5.81	180	33027	5.42	ppb	96
37) 1,2,3-Trichlorobenzene	5.97	180	32275	5.44	ppb	95
38) Naphthalene	5.87	128	110942	5.54	ppb	95
39) 4-Chloroaniline	5.90	127	46148	5.36	ppb	97
40) 2,3-Dichloroaniline	6.61	161	37604	5.52	ppb	95
41) Caprolactam	6.13	55	16576	5.25	ppb	95
42) Hexachlorobutadiene	5.96	225	16605	5.37	ppb	99
43) 4-Chloro-3-methylphenol	6.25	107	28726	5.17	ppb	91
44) 2-Methylnaphthalene	6.38	141	64456	5.53	ppb	94
45) 1-Methylnaphthalene	6.46	142	72574	5.40	ppb	100
46) Dimethylnaphthalene	6.92	156	65486	5.47	ppb	100
48) Hexachlorocyclopentadiene	6.52	237	27114	9.62	ppb	98
49) 2,4,6-Trichlorophenol	6.61	196	18969	5.27	ppb	96
50) 2,4,5-Trichlorophenol	6.65	196	18624	5.01	ppb	98
52) 2-Chloronaphthalene	6.80	162	66885	5.47	ppb	96
53) Biphenyl	6.77	154	88586	5.40	ppb	97
54) 2-Nitroaniline	6.88	65	17308	5.12	ppb	98
55) Dimethylphthalate	7.04	163	67920	5.38	ppb	98
56) Acenaphthylene	7.20	152	107106	5.49	ppb	98
57) 2,6-Dinitrotoluene	7.10	165	14295	5.09	ppb	98
58) 3-Nitroaniline	7.28	138	17761	5.19	ppb	99
59) Acenaphthene	7.37	153	68192	5.52	ppb	98
60) 2,4-Dinitrophenol	7.38	184	6212	12.03	ppb #	24
61) 4-Nitrophenol	7.44	109	7384	4.64	ppb #	85
62) Dibenzofuran	7.56	168	93366	5.47	ppb	96
63) 2,4-Dinitrotoluene	7.53	165	19485	5.24	ppb	84
64) 2,3,4,6-Tetrachlorophenol	7.70	232	14367	5.03	ppb	93
65) Diethylphthalate	7.81	149	67180	5.37	ppb	97
66) Fluorene	7.97	166	74146	5.46	ppb	95
67) 4-Chlorophenyl-phenylether	7.96	204	32467	5.38	ppb	97
68) 4-Nitroaniline	7.97	138	17757	5.15	ppb	95
70) 4,6-Dinitro-2-methylphenol	8.01	198	6057	5.15	ppb	96

(#) = qualifier out of range (m) = manual integration

F35911.D MF5692.M

Thu Jun 12 08:51:33 2014

RT1

Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5692\F35911.D Vial: 7
 Acq On : 11 Jun 2014 11:02 pm Operator: ashleyd
 Sample : ic5692-5 Inst : MSF
 Misc : op74333,ef5692 Multiplr: 1.00
 MS Integration Params: LSCINT.P
 Quant Time: Jun 12 08:42:03 2014 Quant Results File: MF5692.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)
 Title : Semi Volatile Extractables by GC/MS
 Last Update : Thu Jun 12 08:42:00 2014
 Response via : Initial Calibration
 DataAcq Meth : MF5692

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
71) n-Nitrosodiphenylamine	8.10	169	47362	5.31	ppb	97
72) 1,2-Diphenylhydrazine	8.16	77	74890	5.42	ppb	98
74) 4-Bromophenyl-phenylether	8.62	248	18052	5.40	ppb	95
75) Hexachlorobenzene	8.72	284	19959	5.38	ppb	95
76) Pentachlorophenol	9.02	266	17955	8.96	ppb	98
77) Phenanthrene	9.35	178	103499	5.40	ppb	99
78) Anthracene	9.43	178	102044	5.36	ppb	98
79) Carbazole	9.71	167	97448	5.35	ppb	97
80) Di-n-butylphthalate	10.41	149	100979	5.17	ppb	99
81) Fluoranthene	11.55	202	101169	5.20	ppb	99
82) Octadecane	9.18	57	47137	5.35	ppb	97
84) Pyrene	12.00	202	112743	5.33	ppb	100
86) Butylbenzylphthalate	13.59	149	42505	5.00	ppb	95
87) Butyl stearate	13.86	56	26224	4.43	ppb	98
88) Benzo[a]anthracene	14.65	228	98028	5.22	ppb	99
89) 3,3'-Dichlorobenzidine	14.68	252	30501	5.07	ppb	97
90) Chrysene	14.72	228	96145	5.33	ppb	98
91) bis(2-Ethylhexyl)phthalate	15.00	149	55784	4.95	ppb	97
93) Di-n-octylphthalate	16.44	149	81838	4.46	ppb	98
94) Benzo[b]fluoranthene	16.97	252	96687	5.25	ppb	95
95) Benzo[k]fluoranthene	17.02	252	99795	5.51	ppb	97
96) Benzo[a]pyrene	17.61	252	82176	5.28	ppb	98
97) Indeno[1,2,3-cd]pyrene	19.67	276	67483	4.89	ppb	98
98) Dibenz(a,h)acridine	19.30	279	61353	4.94	ppb	98
99) Dibenz[a,h]anthracene	19.72	278	70241	4.94	ppb	95
100) 7,12-Dimethylbenz(a)anthra	16.98	256	42928	5.14	ppb	99
101) Benzo[g,h,i]perylene	20.10	276	73704	5.02	ppb	98

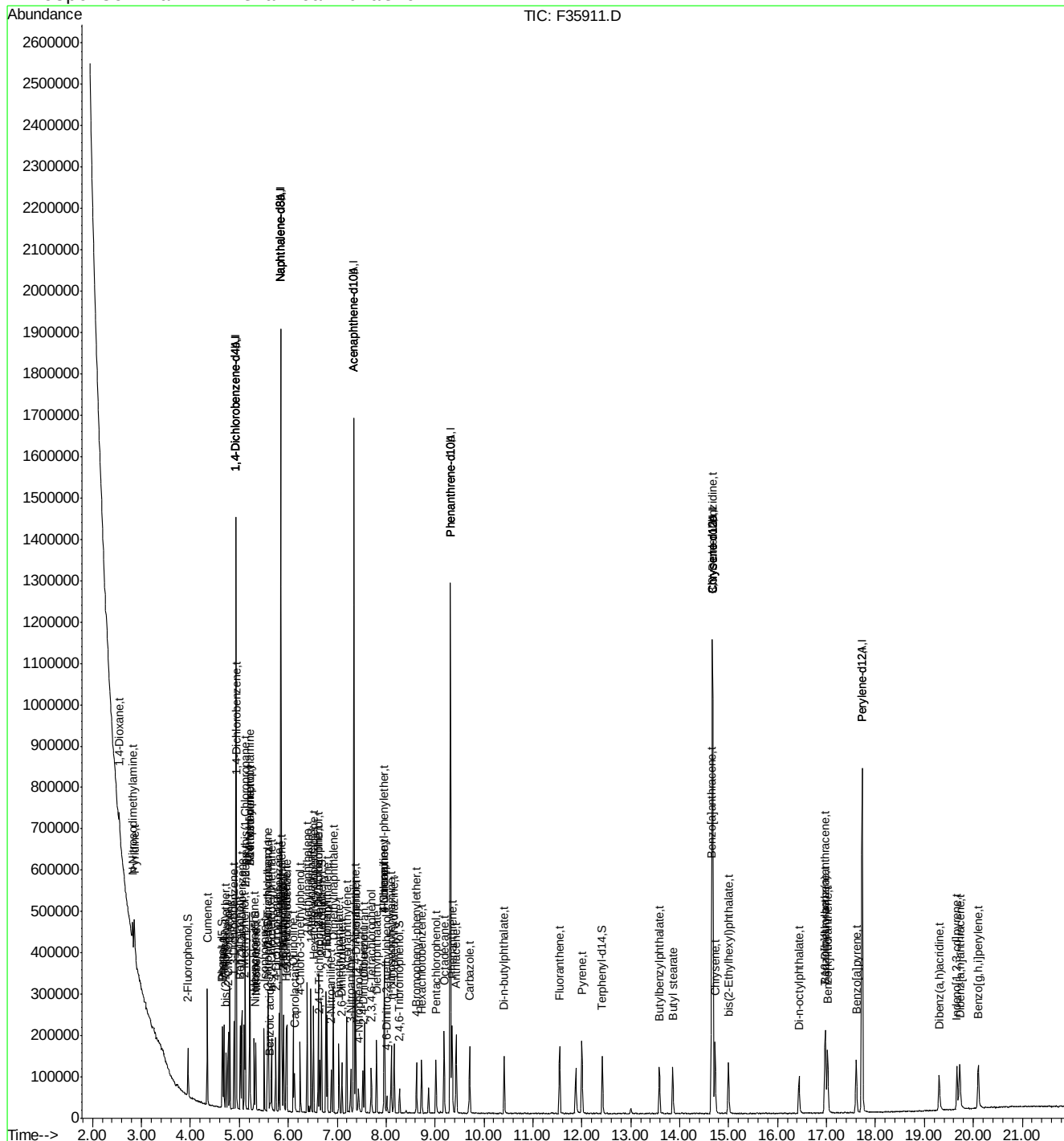
(#) = qualifier out of range (m) = manual integration (+) = signals summed
 F35911.D MF5692.M Thu Jun 12 08:51:34 2014 RT1

(QT Reviewed)

Vial: 7
Operator: ashleyd
Inst : MSF
Multiplr: 1.00

Quant Results File: MF5692.RES

Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 12 08:49:00 2014
Response via : Initial Calibration



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9.6.64

Manual Integration Approval Summary

Sample Number: EF5692-IC5692

Method: SW846 8270D

Lab FileID: F35911.D

Analyst approved: 06/12/14 09:15 Nina Pandya

Injection Time: 06/11/14 23:02

Supervisor approved: 06/12/14 13:56 Olga Azarihn

Parameter	CAS	Sig#	R.T. (min.)	Reason
1,4-Dioxane	123-91-1		2.54	Poor instrument integration

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF5692\F35911.D

Vial: 7

Acq On : 11 Jun 2014 11:02 pm

Operator: ashleyd

Sample : ic5692-5

Inst : MSF

Misc : op74333,ef5692

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Jun 12 8:28 2014

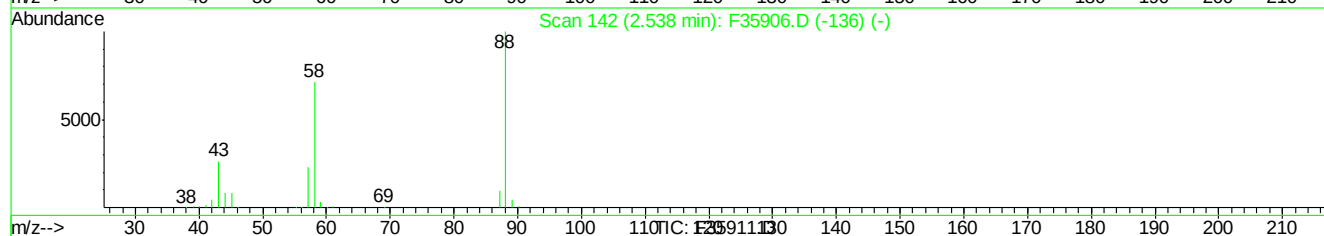
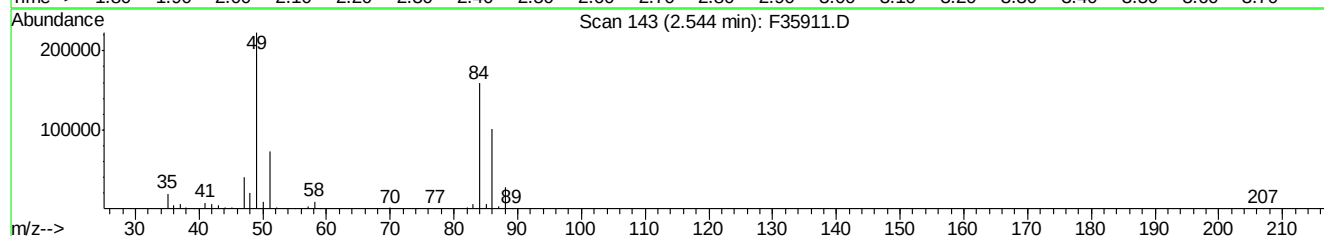
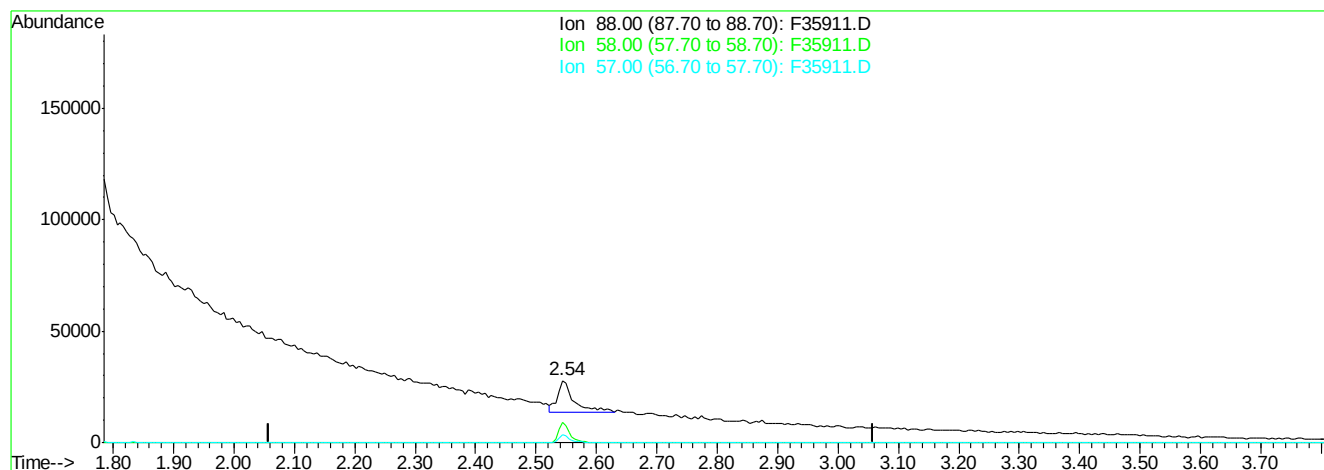
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Thu Jun 12 08:28:47 2014

Response via : Multiple Level Calibration



(2) 1,4-Dioxane (t)

2.54min 8.73ppb

response 27473

Ion	Exp%	Act%
88.00	100	100
58.00	71.10	70.84
57.00	22.80	27.41
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF5692\F35911.D

Vial: 7

Acq On : 11 Jun 2014 11:02 pm

Operator: ashleyd

Sample : ic5692-5

Inst : MSF

Misc : op74333,ef5692

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Jun 12 8:42 2014

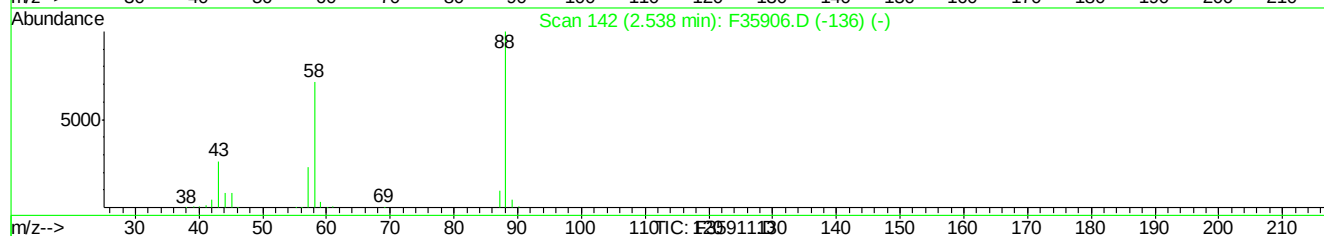
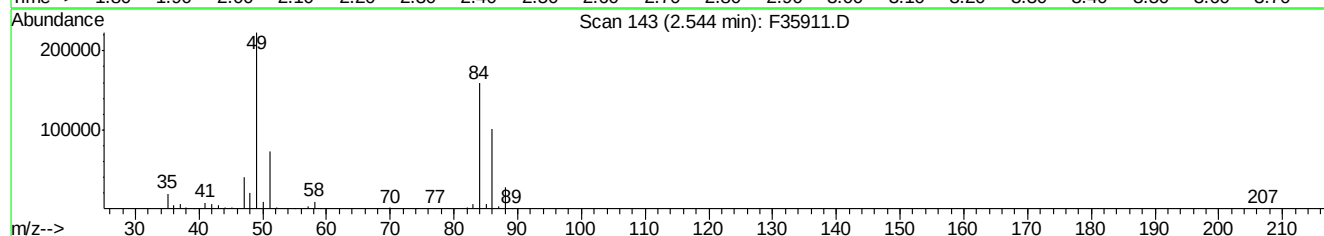
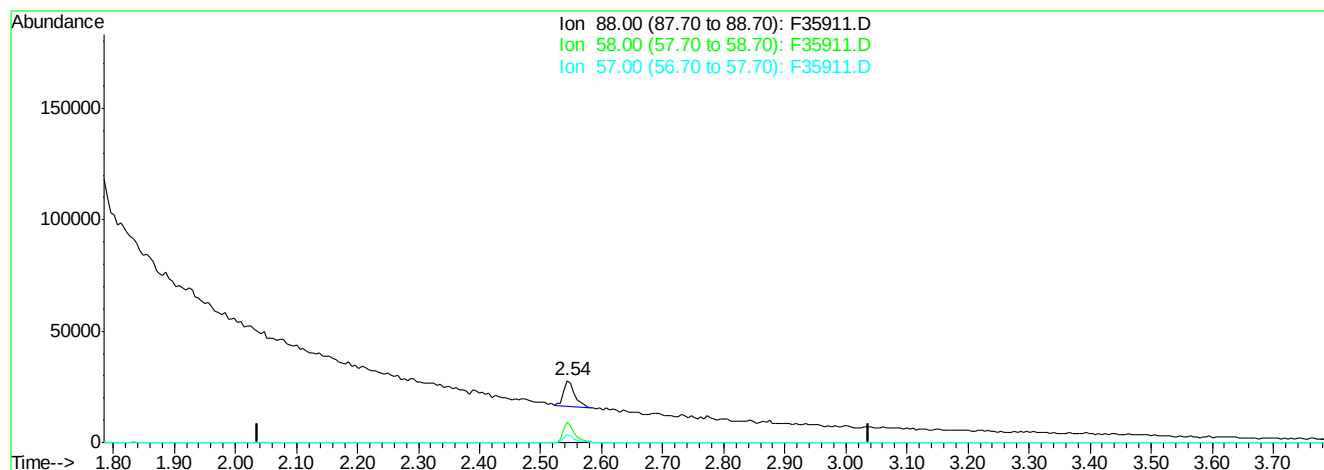
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Thu Jun 12 08:42:00 2014

Response via : Multiple Level Calibration



(2) 1,4-Dioxane (t)

2.54min 4.46ppb m

response 14654

Ion	Exp%	Act%
88.00	100	100
58.00	71.10	31.95#
57.00	22.80	12.37
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5692\F35912.D Vial: 8
 Acq On : 11 Jun 2014 11:32 pm Operator: ashleyd
 Sample : ic5692-2 Inst : MSF
 Misc : op74333,ef5692 Multiplr: 1.00
 MS Integration Params: LSCINT.P
 Quant Time: Jun 12 08:30:20 2014 Quant Results File: MF5692.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)
 Title : Semi Volatile Extractables by GC/MS
 Last Update : Thu Jun 12 08:28:47 2014
 Response via : Initial Calibration
 DataAcq Meth : MF5692

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.93	152	180327	40.00	ppb	-0.03
24) Naphthalene-d8	5.85	136	660097	40.00	ppb	-0.03
47) Acenaphthene-d10	7.34	164	379907	40.00	ppb	-0.04
69) Phenanthrene-d10	9.31	188	609626	40.00	ppb	-0.05
83) Chrysene-d12	14.67	240	596998	40.00	ppb	-0.07
92) Perylene-d12	17.73	264	476869	40.00	ppb	-0.08
102) 1,4-Dichlorobenzene-d4A	4.93	152	180327	40.00	ppb	-0.03
112) Naphthalene-d8A	5.85	136	660097	40.00	ppb	-0.03
121) Acenaphthene-d10A	7.34	164	379907	40.00	ppb	-0.04
132) Phenanthrene-d10A	9.31	188	609626	40.00	ppb	-0.05
147) Chrysene-d12A	14.67	240	596998	40.00	ppb	-0.07
155) Perylene-d12A	17.73	264	476869	40.00	ppb	-0.08
159) 1,4-Dichlorobenzene-d4b	4.93	152	180327	40.00	ppb	-0.03
161) Naphthalene-d8b	5.85	136	660097	40.00	ppb	-0.03
163) Acenaphthene-d10b	7.34	164	379907	40.00	ppb	-0.04
165) Phenanthrene-d10b	9.31	188	609626	40.00	ppb	0.00
167) Chrysene-d12b	14.67	240	596998	40.00	ppb	-0.07
169) 1,4-Dichlorobenzene-d4c	4.93	152	180327	40.00	ppb	-0.03
171) Naphthalene-d8c	5.85	136	660097	40.00	ppb	-0.03
176) Chrysene-d12c	14.67	240	596998	40.00	ppb	-0.07
178) Naphthalene-d8a	5.85	136	660097	40.00	ppb	0.04

System Monitoring Compounds

5) 2-Fluorophenol	3.95	112	12524	1.90	ppb	-0.02
Spiked Amount 50.000			Recovery	=	3.80%	
8) Phenol-d5	4.65	99	15692	1.88	ppb	-0.03
Spiked Amount 50.000			Recovery	=	3.76%	
25) Nitrobenzene-d5	5.33	82	13353	2.01	ppb	-0.03
Spiked Amount 50.000			Recovery	=	4.02%	
51) 2-Fluorobiphenyl	6.68	172	27575	2.14	ppb	-0.03
Spiked Amount 50.000			Recovery	=	4.28%	
73) 2,4,6-Tribromophenol	8.28	330	2223	1.40	ppb	-0.05
Spiked Amount 50.000			Recovery	=	2.80%	
85) Terphenyl-d14	12.42	244	25407	1.83	ppb	-0.07
Spiked Amount 50.000			Recovery	=	3.66%	

Target Compounds

						Qvalue
2) 1,4-Dioxane	2.55	88	5859m	1.91	ppb	
3) Pyridine	2.86	79	14965	1.94	ppb	91
4) N-Nitrosodimethylamine	2.82	42	8572	2.78	ppb	78
6) Indene	5.12	116	24691	2.21	ppb	93
7) Cumene	4.34	105	34485	2.21	ppb	98
9) Phenol	4.66	94	17853	2.06	ppb	97
10) Aniline	4.69	93	22208	2.06	ppb	91
11) bis(2-Chloroethyl)ether	4.73	93	13449	2.22	ppb	99
12) 2-Chlorophenol	4.78	128	14263	2.02	ppb	93
13) Decane	4.81	43	15656	2.35	ppb	96
14) 1,3-Dichlorobenzene	4.89	146	16429	2.16	ppb	95
15) 1,4-Dichlorobenzene	4.94	146	15357	2.04	ppb	96
16) Benzyl alcohol	5.02	108	9057	1.88	ppb	93

(#) = qualifier out of range (m) = manual integration

F35912.D MF5692.M Thu Jun 12 08:51:43 2014 RT1

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5692\F35912.D

Vial: 8

Acq On : 11 Jun 2014 11:32 pm

Operator: ashleyd

Sample : ic5692-2

Inst : MSF

Misc : op74333,ef5692

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Jun 12 08:30:20 2014

Quant Results File: MF5692.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Thu Jun 12 08:28:47 2014

Response via : Initial Calibration

DataAcq Meth : MF5692

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
17) 1,2-Dichlorobenzene	5.05	146	15185	2.19	ppb	94
18) Acetophenone	5.21	105	20530	2.35	ppb	97
19) 2-Methylphenol	5.10	108	12914	2.02	ppb	98
20) 2,2'-oxybis(1-Chloropropan	5.12	121	4484	2.15	ppb	# 64
21) 3&4-Methylphenol	5.21	108	13111	2.00	ppb	91
22) n-Nitroso-di-n-propylamine	5.21	70	9438	2.19	ppb	91
23) Hexachloroethane	5.31	201	4662	1.87	ppb	94
26) Nitrobenzene	5.34	77	14386	2.06	ppb	92
27) Quinoline	6.11	129	27766	2.02	ppb	99
28) Isophorone	5.51	82	24230	1.99	ppb	98
29) 2-Nitrophenol	5.57	139	5740	1.55	ppb	95
30) 2,4-Dimethylphenol	5.59	107	12932	2.05	ppb	97
31) Benzoic acid	5.63	105	2152	0.49	ppb	# 30
32) bis(2-Chloroethoxy)methane	5.66	93	14574	2.08	ppb	97
33) 2,4-Dichlorophenol	5.74	162	9656	1.78	ppb	99
34) 2,6-Dichlorophenol	5.90	162	10316	1.96	ppb	97
35) 1,3,5-Trichlorobenzene	5.58	180	13351	2.22	ppb	94
36) 1,2,4-Trichlorobenzene	5.81	180	12304	2.14	ppb	92
37) 1,2,3-Trichlorobenzene	5.97	180	12431	2.21	ppb	96
38) Naphthalene	5.87	128	41940	2.25	ppb	94
39) 4-Chloroaniline	5.90	127	15941	1.88	ppb	97
40) 2,3-Dichloroaniline	6.61	161	13526	2.09	ppb	93
41) Caprolactam	6.13	55	5972	1.83	ppb	96
42) Hexachlorobutadiene	5.96	225	6248	2.07	ppb	94
43) 4-Chloro-3-methylphenol	6.25	107	10496	1.88	ppb	93
44) 2-Methylnaphthalene	6.38	141	24444	2.24	ppb	98
45) 1-Methylnaphthalene	6.46	142	27882	2.20	ppb	94
46) Dimethylnaphthalene	6.92	156	24521	2.14	ppb	99
48) Hexachlorocyclopentadiene	6.52	237	8686	2.72	ppb	98
49) 2,4,6-Trichlorophenol	6.61	196	6637	1.80	ppb	91
50) 2,4,5-Trichlorophenol	6.65	196	6937	1.75	ppb	98
52) 2-Chloronaphthalene	6.80	162	25432	2.19	ppb	97
53) Biphenyl	6.77	154	34549	2.21	ppb	97
54) 2-Nitroaniline	6.88	65	5539	1.52	ppb	97
55) Dimethylphthalate	7.04	163	25137	2.03	ppb	97
56) Acenaphthylene	7.20	152	39502	2.07	ppb	97
57) 2,6-Dinitrotoluene	7.10	165	4737	1.53	ppb	93
58) 3-Nitroaniline	7.28	138	5811	1.53	ppb	88
59) Acenaphthene	7.37	153	25679	2.19	ppb	94
60) 2,4-Dinitrophenol	7.39	184	1103	0.68	ppb	# 1
61) 4-Nitrophenol	7.44	109	2025	1.13	ppb	# 79
62) Dibenzofuran	7.56	168	35517	2.18	ppb	100
63) 2,4-Dinitrotoluene	7.53	165	5890	1.42	ppb	80
64) 2,3,4,6-Tetrachlorophenol	7.70	232	4529	1.39	ppb	94
65) Diethylphthalate	7.81	149	24485	1.97	ppb	98
66) Fluorene	7.97	166	27902	2.15	ppb	98
67) 4-Chlorophenyl-phenylether	7.96	204	12222	2.06	ppb	97
68) 4-Nitroaniline	7.97	138	5899	1.59	ppb	97
70) 4,6-Dinitro-2-methylphenol	8.01	198	1350	0.58	ppb	87

(#) = qualifier out of range (m) = manual integration

F35912.D MF5692.M

Thu Jun 12 08:51:43 2014

RT1

Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5692\F35912.D Vial: 8
 Acq On : 11 Jun 2014 11:32 pm Operator: ashleyd
 Sample : ic5692-2 Inst : MSF
 Misc : op74333,ef5692 Multiplr: 1.00
 MS Integration Params: LSCINT.P
 Quant Time: Jun 12 08:30:20 2014 Quant Results File: MF5692.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)
 Title : Semi Volatile Extractables by GC/MS
 Last Update : Thu Jun 12 08:28:47 2014
 Response via : Initial Calibration
 DataAcq Meth : MF5692

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
71) n-Nitrosodiphenylamine	8.10	169	16921	1.91	ppb	98
72) 1,2-Diphenylhydrazine	8.16	77	27284	2.02	ppb	98
74) 4-Bromophenyl-phenylether	8.62	248	6379	1.89	ppb	92
75) Hexachlorobenzene	8.72	284	7542	2.09	ppb	92
76) Pentachlorophenol	9.02	266	4962	2.14	ppb	96
77) Phenanthrene	9.35	178	39195	2.16	ppb	97
78) Anthracene	9.44	178	37305	1.99	ppb	96
79) Carbazole	9.71	167	35880	1.97	ppb	99
80) Di-n-butylphthalate	10.41	149	33788	1.63	ppb	99
81) Fluoranthene	11.55	202	37587	1.89	ppb	100
82) Octadecane	9.18	57	15691	1.72	ppb	97
84) Pyrene	12.00	202	40893	1.91	ppb	98
86) Butylbenzylphthalate	13.59	149	13800	1.44	ppb	96
87) Butyl stearate	13.86	56	7467	1.11	ppb	95
88) Benzo[a]anthracene	14.65	228	39532	2.16	ppb	96
89) 3,3'-Dichlorobenzidine	14.67	252	10114	1.48	ppb	91
90) Chrysene	14.72	228	38649	2.26	ppb	98
91) bis(2-Ethylhexyl)phthalate	15.00	149	17498	1.33	ppb	94
93) Di-n-octylphthalate	16.43	149	23530	1.12	ppb	100
94) Benzo[b]fluoranthene	16.97	252	36789	2.00	ppb	97
95) Benzo[k]fluoranthene	17.02	252	38941	2.26	ppb	98
96) Benzo[a]pyrene	17.61	252	29802	1.84	ppb	92
97) Indeno[1,2,3-cd]pyrene	19.67	276	23089	1.51	ppb	95
98) Dibenz(a,h)acridine	19.30	279	21166	1.52	ppb	94
99) Dibenz[a,h]anthracene	19.72	278	24452	1.61	ppb	99
100) 7,12-Dimethylbenz(a)anthra	16.98	256	15499	1.77	ppb	99
101) Benzo[g,h,i]perylene	20.10	276	27537	1.80	ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 F35912.D MF5692.M Thu Jun 12 08:51:43 2014 RT1

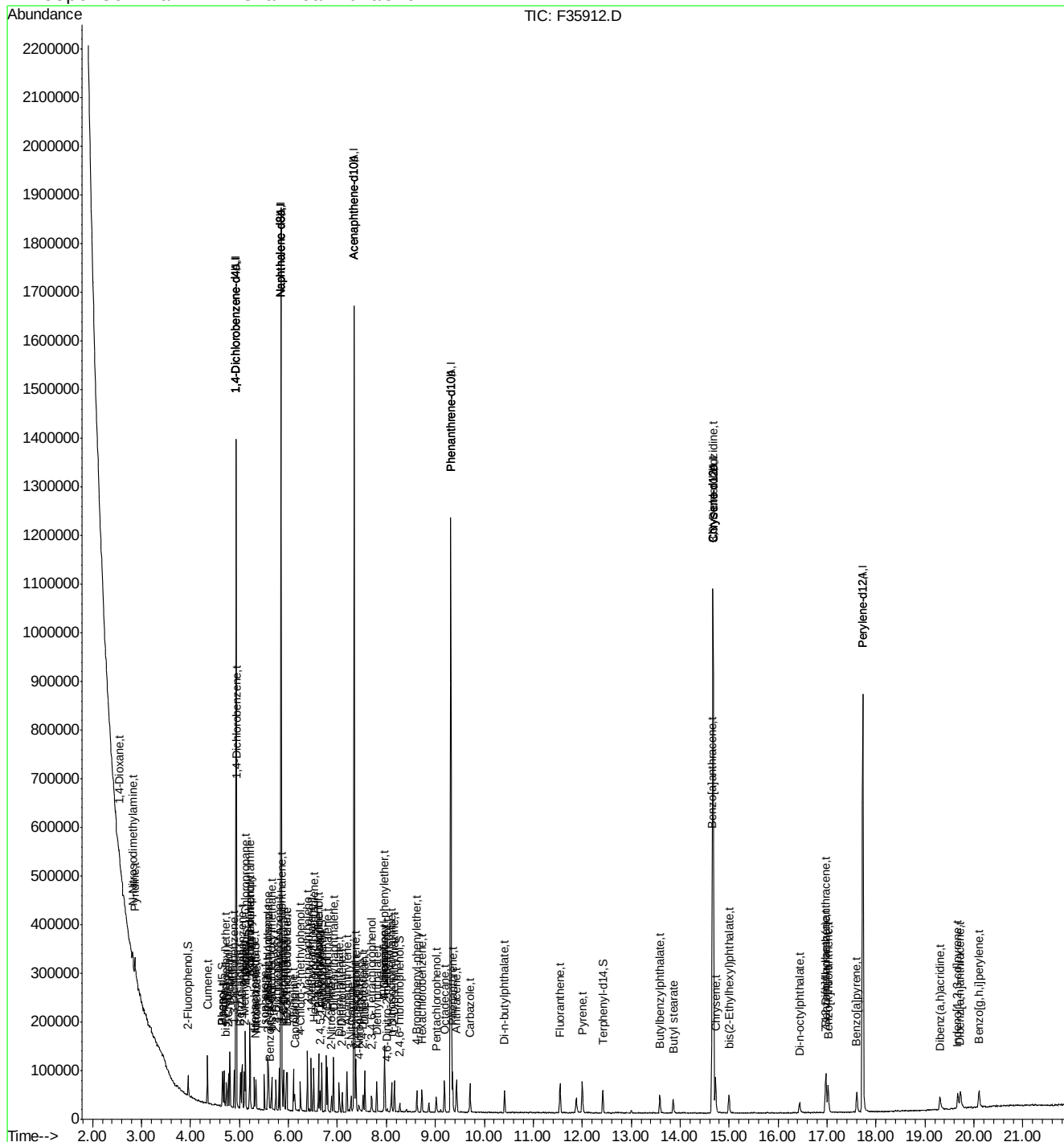
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5692\F35912.D
Acq On : 11 Jun 2014 11:32 pm
Sample : ic5692-2
Misc : op74333,ef5692
MS Integration Params: LSCINT.P
Quant Time: Jun 12 8:31 2014

Vial: 8
Operator: ashleyd
Inst : MSF
Multiplr: 1.00

Quant Results File: MF5692.RES

Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 12 08:49:00 2014
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: EF5692-IC5692

Method: SW846 8270D

Lab FileID: F35912.D

Analyst approved: 06/12/14 09:15 Nina Pandya

Injection Time: 06/11/14 23:32

Supervisor approved: 06/12/14 13:56 Olga Azarihn

Parameter	CAS	Sig#	R.T. (min.)	Reason
1,4-Dioxane	123-91-1		2.55	Poor instrument integration

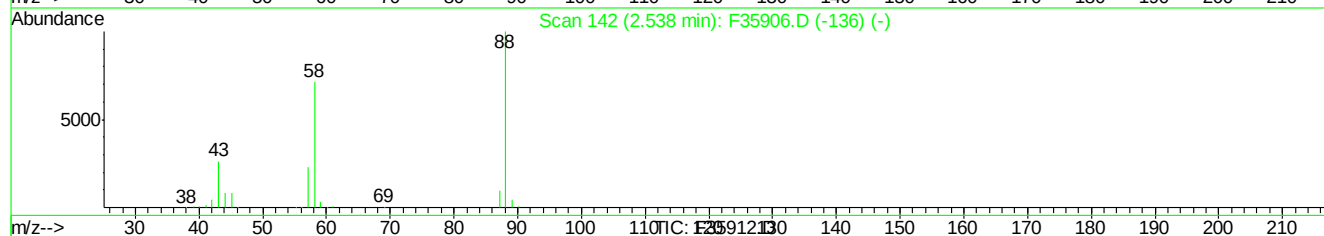
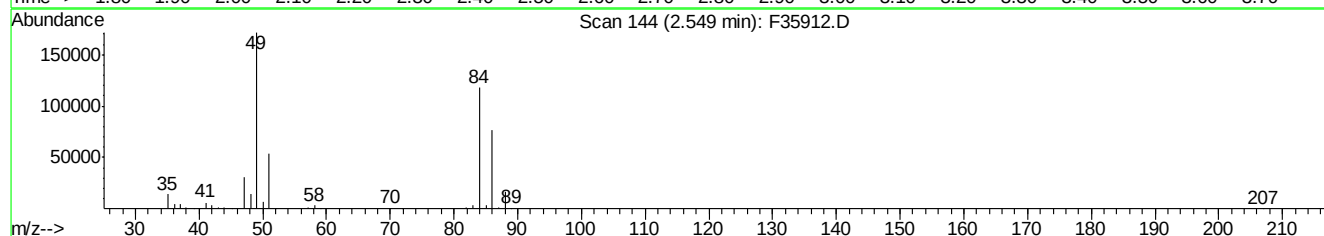
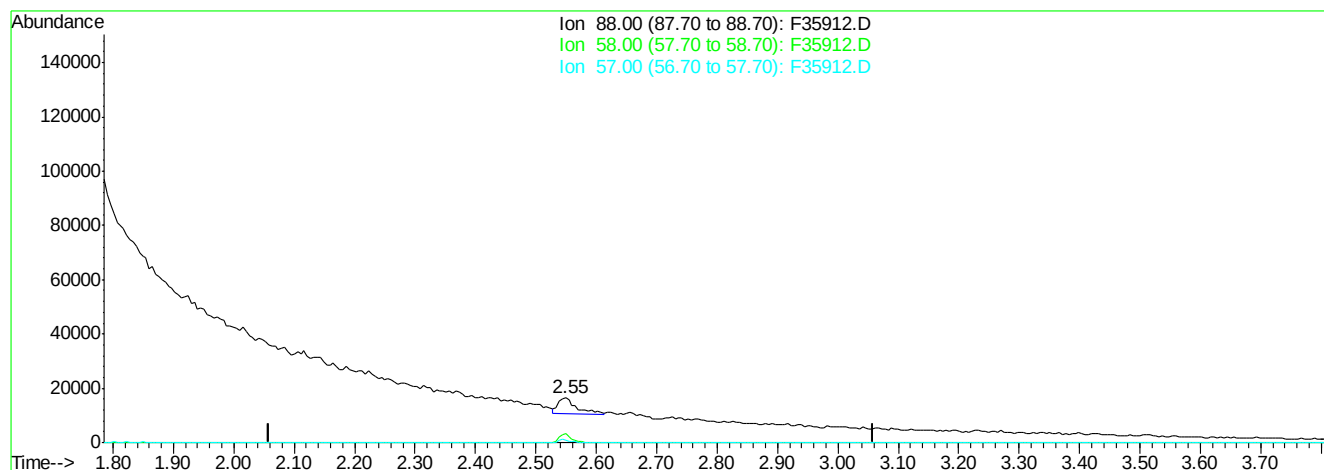
9.6.65.1

9

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF5692\F35912.D Vial: 8
Acq On : 11 Jun 2014 11:32 pm Operator: ashleyd
Sample : ic5692-2 Inst : MSF
Misc : op74333,ef5692 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 8:30 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 12 08:28:47 2014
Response via : Multiple Level Calibration



(2) 1,4-Dioxane (t)

2.55min 4.06ppb

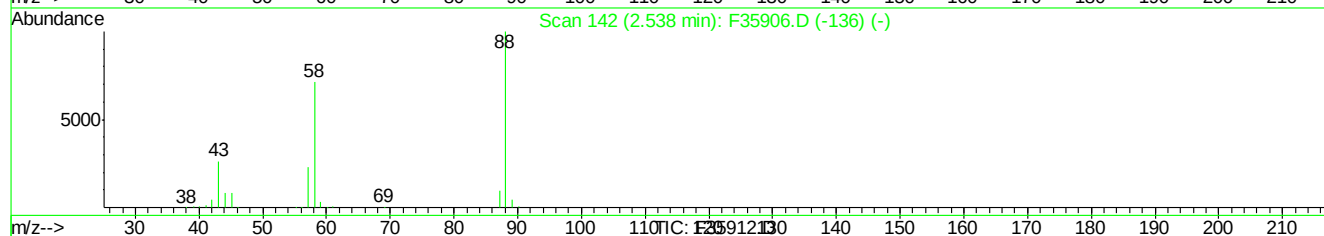
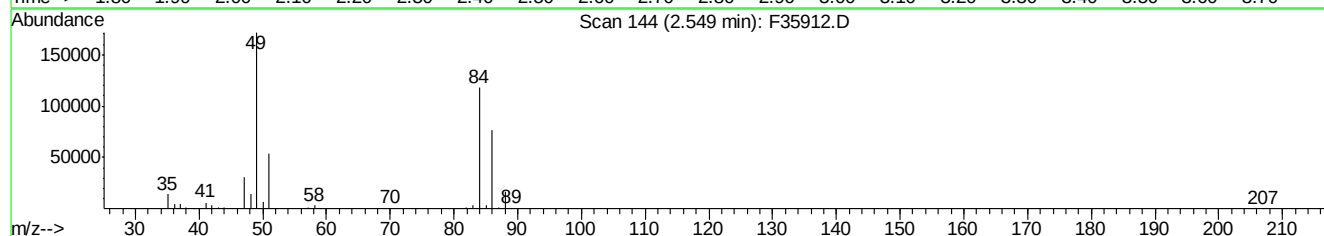
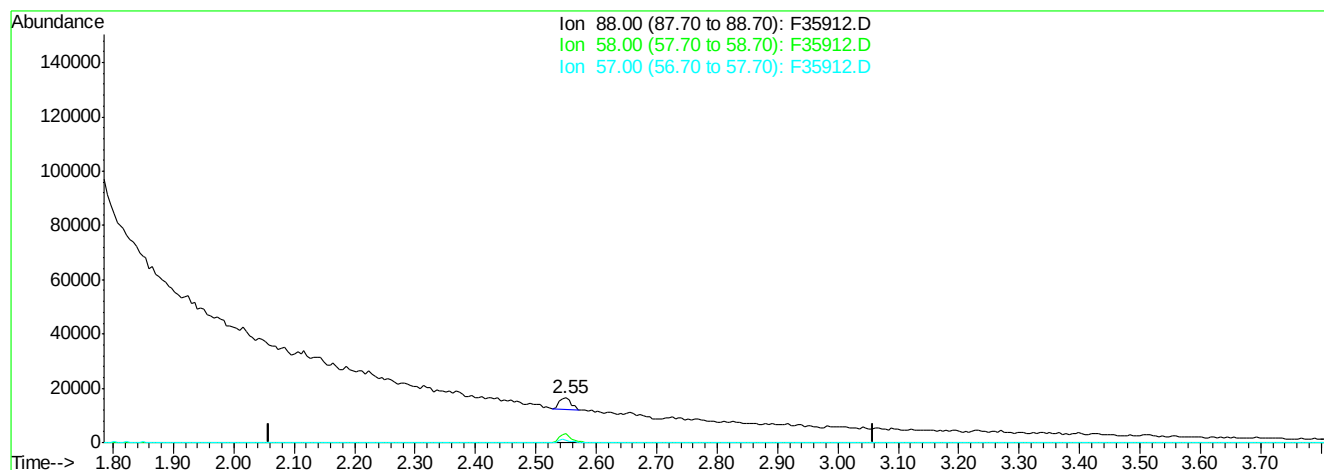
response 12474

Ion	Exp%	Act%
88.00	100	100
58.00	71.10	67.55
57.00	22.80	18.62
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF5692\F35912.D Vial: 8
Acq On : 11 Jun 2014 11:32 pm Operator: ashleyd
Sample : ic5692-2 Inst : MSF
Misc : op74333,ef5692 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 8:31 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 12 08:49:00 2014
Response via : Multiple Level Calibration



(2) 1,4-Dioxane (t)

2.55min 1.91ppb m

response 5859

Ion	Exp%	Act%
88.00	100	100
58.00	71.10	19.81#
57.00	22.80	5.46
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5692\F35913.D

Vial: 9

Acq On : 12 Jun 2014 12:01 am

Operator: ashleyd

Sample : ic5692-1

Inst : MSF

Misc : op74333,ef5692

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Jun 12 08:33:05 2014

Quant Results File: MF5692.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Thu Jun 12 08:28:47 2014

Response via : Initial Calibration

DataAcq Meth : MF5692

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.93	152	196588	40.00	ppb	-0.03
24) Naphthalene-d8	5.85	136	705792	40.00	ppb	-0.03
47) Acenaphthene-d10	7.34	164	409528	40.00	ppb	-0.04
69) Phenanthrene-d10	9.31	188	654379	40.00	ppb	-0.05
83) Chrysene-d12	14.67	240	621642	40.00	ppb	-0.07
92) Perylene-d12	17.73	264	499715	40.00	ppb	-0.08
102) 1,4-Dichlorobenzene-d4A	4.93	152	196588	40.00	ppb	-0.03
112) Naphthalene-d8A	5.85	136	705792	40.00	ppb	-0.03
121) Acenaphthene-d10A	7.34	164	409528	40.00	ppb	-0.04
132) Phenanthrene-d10A	9.31	188	654379	40.00	ppb	-0.05
147) Chrysene-d12A	14.67	240	621642	40.00	ppb	-0.07
155) Perylene-d12A	17.73	264	499715	40.00	ppb	-0.08
159) 1,4-Dichlorobenzene-d4b	4.93	152	196588	40.00	ppb	-0.03
161) Naphthalene-d8b	5.85	136	705792	40.00	ppb	-0.03
163) Acenaphthene-d10b	7.34	164	409528	40.00	ppb	-0.04
165) Phenanthrene-d10b	9.31	188	654379	40.00	ppb	0.00
167) Chrysene-d12b	14.67	240	621642	40.00	ppb	-0.07
169) 1,4-Dichlorobenzene-d4c	4.93	152	196588	40.00	ppb	-0.03
171) Naphthalene-d8c	5.85	136	705792	40.00	ppb	-0.03
176) Chrysene-d12c	14.67	240	621642	40.00	ppb	-0.07
178) Naphthalene-d8a	5.85	136	705792	40.00	ppb	0.04

System Monitoring Compounds

5) 2-Fluorophenol	3.95	112	6997	0.97	ppb	-0.02
Spiked Amount	50.000		Recovery	=	1.94%	
8) Phenol-d5	4.65	99	8387	0.92	ppb	-0.03
Spiked Amount	50.000		Recovery	=	1.84%	
25) Nitrobenzene-d5	5.33	82	8088	1.14	ppb	-0.03
Spiked Amount	50.000		Recovery	=	2.28%	
51) 2-Fluorobiphenyl	6.68	172	15416	1.11	ppb	-0.03
Spiked Amount	50.000		Recovery	=	2.22%	
73) 2,4,6-Tribromophenol	8.28	330	1081	0.63	ppb	-0.05
Spiked Amount	50.000		Recovery	=	1.26%	
85) Terphenyl-d14	12.42	244	13570	0.94	ppb	-0.07
Spiked Amount	50.000		Recovery	=	1.88%	

Target Compounds

						Qvalue
2) 1,4-Dioxane	2.54	88	4963	1.48	ppb	96
3) Pyridine	2.87	79	8585	1.02	ppb	94
4) N-Nitrosodimethylamine	2.82	42	3116	0.93	ppb	98
6) Indene	5.12	116	13716	1.12	ppb	99
7) Cumene	4.34	105	18702	1.10	ppb	94
9) Phenol	4.66	94	9851	1.04	ppb	94
10) Aniline	4.69	93	12143	1.03	ppb	91
11) bis(2-Chloroethyl)ether	4.73	93	7435	1.12	ppb	93
12) 2-Chlorophenol	4.78	128	7769	1.01	ppb	94
13) Decane	4.81	43	9246	1.27	ppb	93
14) 1,3-Dichlorobenzene	4.89	146	8754	1.06	ppb	98
15) 1,4-Dichlorobenzene	4.94	146	9571	1.17	ppb	91
16) Benzyl alcohol	5.02	108	4879	0.93	ppb	92

(#)=qualifier out of range (m)=manual integration

F35913.D MF5692.M

Thu Jun 12 08:51:51 2014

RT1

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5692\F35913.D

Vial: 9

Acq On : 12 Jun 2014 12:01 am

Operator: ashleyd

Sample : ic5692-1

Inst : MSF

Misc : op74333,ef5692

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Jun 12 08:33:05 2014

Quant Results File: MF5692.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Thu Jun 12 08:28:47 2014

Response via : Initial Calibration

DataAcq Meth : MF5692

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
17) 1,2-Dichlorobenzene	5.05	146	8676	1.15	ppb	97
18) Acetophenone	5.21	105	10634	1.11	ppb	98
19) 2-Methylphenol	5.10	108	7194	1.03	ppb	89
20) 2,2'-oxybis(1-Chloropropan	5.12	121	2393	1.05	ppb #	78
21) 3&4-Methylphenol	5.21	108	7019	0.98	ppb	95
22) n-Nitroso-di-n-propylamine	5.21	70	5034	1.07	ppb	96
23) Hexachloroethane	5.31	201	2788	1.03	ppb	91
26) Nitrobenzene	5.34	77	7665	1.03	ppb	99
27) Quinoline	6.11	129	15709	1.07	ppb	99
28) Isophorone	5.51	82	13327	1.02	ppb	95
29) 2-Nitrophenol	5.57	139	2973	0.75	ppb	92
30) 2,4-Dimethylphenol	5.59	107	6993	1.04	ppb	98
32) bis(2-Chloroethoxy)methane	5.66	93	8004	1.07	ppb	97
33) 2,4-Dichlorophenol	5.74	162	5115	0.88	ppb	94
34) 2,6-Dichlorophenol	5.90	162	5666	1.01	ppb	92
35) 1,3,5-Trichlorobenzene	5.58	180	7329	1.14	ppb	96
36) 1,2,4-Trichlorobenzene	5.81	180	7289	1.19	ppb	97
37) 1,2,3-Trichlorobenzene	5.97	180	6694	1.11	ppb	98
38) Naphthalene	5.87	128	23343	1.17	ppb	97
39) 4-Chloroaniline	5.90	127	9432	1.04	ppb	99
40) 2,3-Dichloroaniline	6.61	161	7727	1.12	ppb	95
41) Caprolactam	6.13	55	2969	0.85	ppb	90
42) Hexachlorobutadiene	5.96	225	3516	1.09	ppb	98
43) 4-Chloro-3-methylphenol	6.25	107	5532	0.93	ppb	95
44) 2-Methylnaphthalene	6.38	141	13277	1.14	ppb	96
45) 1-Methylnaphthalene	6.46	142	15882	1.17	ppb	96
46) Dimethylnaphthalene	6.92	156	13278	1.09	ppb	96
48) Hexachlorocyclopentadiene	6.52	237	4534	1.31	ppb	99
49) 2,4,6-Trichlorophenol	6.61	196	3589	0.90	ppb	98
50) 2,4,5-Trichlorophenol	6.65	196	3454	0.81	ppb	90
52) 2-Chloronaphthalene	6.80	162	14260	1.14	ppb	97
53) Biphenyl	6.77	154	19056	1.13	ppb	99
54) 2-Nitroaniline	6.88	65	2982	0.76	ppb	81
55) Dimethylphthalate	7.04	163	13977	1.05	ppb	96
56) Acenaphthylene	7.20	152	21342	1.04	ppb	95
57) 2,6-Dinitrotoluene	7.10	165	2256	0.68	ppb	83
58) 3-Nitroaniline	7.28	138	2588	0.63	ppb	74
59) Acenaphthene	7.37	153	14086	1.11	ppb	96
62) Dibenzofuran	7.56	168	20002	1.14	ppb	98
63) 2,4-Dinitrotoluene	7.53	165	2796	0.62	ppb	80
64) 2,3,4,6-Tetrachlorophenol	7.70	232	2353	0.67	ppb	91
65) Diethylphthalate	7.81	149	13699	1.02	ppb	99
66) Fluorene	7.97	166	15520	1.11	ppb	94
67) 4-Chlorophenyl-phenylether	7.96	204	6667	1.04	ppb	99
68) 4-Nitroaniline	7.97	138	2682	0.67	ppb	89
71) n-Nitrosodiphenylamine	8.11	169	9456	0.99	ppb	92
72) 1,2-Diphenylhydrazine	8.16	77	14628	1.01	ppb	97
74) 4-Bromophenyl-phenylether	8.62	248	3540	0.98	ppb	94
75) Hexachlorobenzene	8.72	284	4239	1.09	ppb	96

(#)=qualifier out of range (m)=manual integration

F35913.D MF5692.M

Thu Jun 12 08:51:51 2014

RT1

Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5692\F35913.D Vial: 9
 Acq On : 12 Jun 2014 12:01 am Operator: ashleyd
 Sample : ic5692-1 Inst : MSF
 Misc : op74333,ef5692 Multiplr: 1.00
 MS Integration Params: LSCINT.P
 Quant Time: Jun 12 08:33:05 2014 Quant Results File: MF5692.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)
 Title : Semi Volatile Extractables by GC/MS
 Last Update : Thu Jun 12 08:28:47 2014
 Response via : Initial Calibration
 DataAcq Meth : MF5692

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
76) Pentachlorophenol	9.02	266	2078	0.83	ppb	86
77) Phenanthrene	9.35	178	22532	1.15	ppb	99
78) Anthracene	9.44	178	20585	1.02	ppb	98
79) Carbazole	9.71	167	18465	0.95	ppb	99
80) Di-n-butylphthalate	10.41	149	17190	0.77	ppb	97
81) Fluoranthene	11.55	202	19505	0.91	ppb	97
82) Octadecane	9.18	57	7939	0.81	ppb	98
84) Pyrene	12.00	202	20956	0.94	ppb	97
86) Butylbenzylphthalate	13.59	149	6708	0.67	ppb	95
87) Butyl stearate	13.86	56	3398	0.49	ppb	100
88) Benzo[a]anthracene	14.65	228	22388	1.18	ppb	98
89) 3,3'-Dichlorobenzidine	14.68	252	4855	0.68	ppb	80
90) Chrysene	14.72	228	23359	1.31	ppb	98
91) bis(2-Ethylhexyl)phthalate	15.00	149	7793	0.57	ppb	93
93) Di-n-octylphthalate	16.43	149	11459	0.52	ppb	97
94) Benzo[b]fluoranthene	16.97	252	20371	1.06	ppb	91
95) Benzo[k]fluoranthene	17.03	252	22520	1.25	ppb	97
96) Benzo[a]pyrene	17.61	252	16048	0.95	ppb	97
97) Indeno[1,2,3-cd]pyrene	19.67	276	13228	0.83	ppb	97
98) Dibenz(a,h)acridine	19.30	279	10506	0.72	ppb	98
99) Dibenz[a,h]anthracene	19.72	278	14471	0.91	ppb	95
100) 7,12-Dimethylbenz(a)anthra	16.98	256	8458	0.92	ppb	97
101) Benzo[g,h,i]perylene	20.10	276	15634	0.97	ppb	90

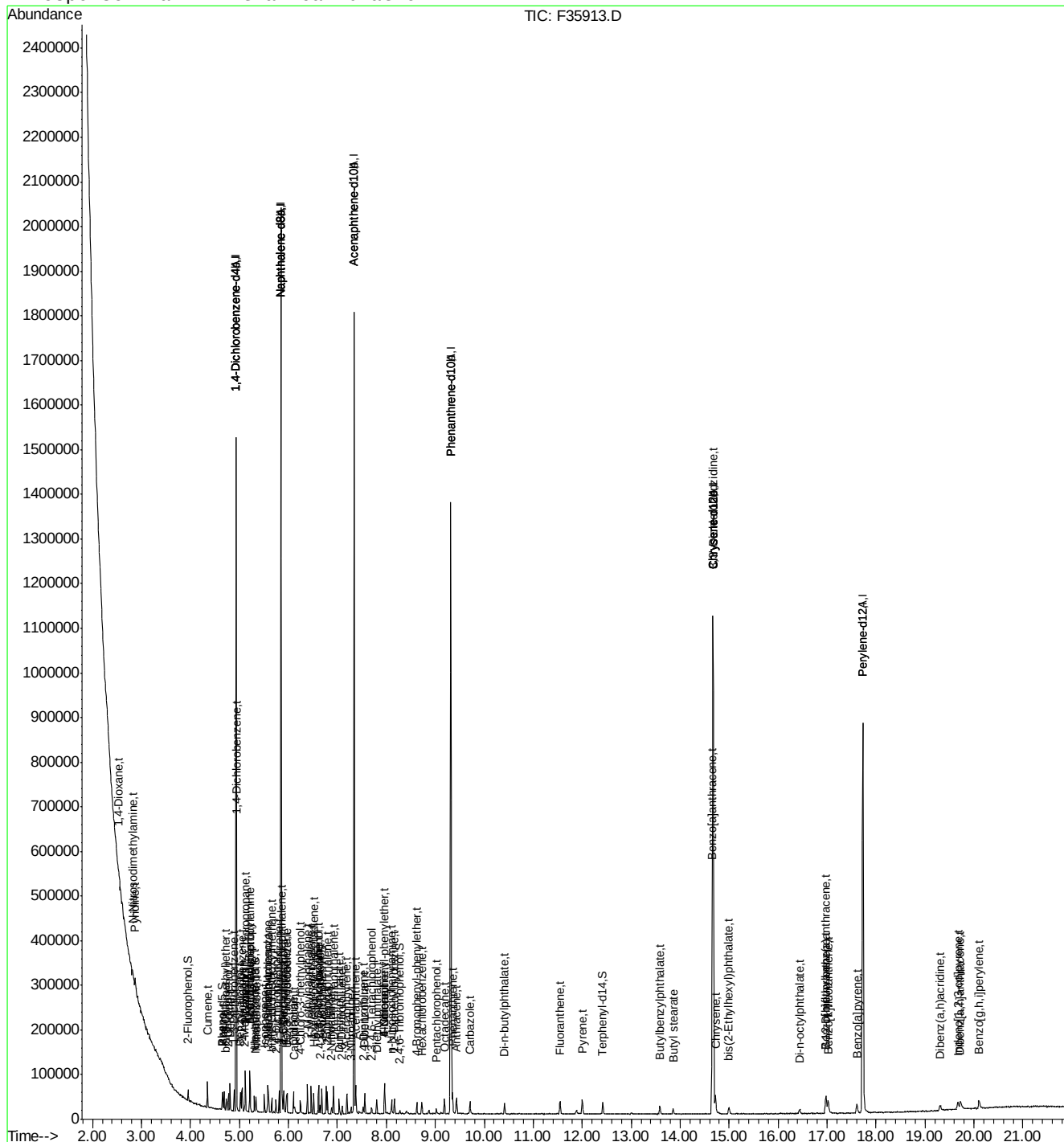
(#) = qualifier out of range (m) = manual integration (+) = signals summed
 F35913.D MF5692.M Thu Jun 12 08:51:51 2014 RT1

(QT Reviewed)

```
Vial: 9
Operator: ashleyd
Inst      : MSF
Multiplr: 1.00
```

Quant Results File: MF5692.RES

Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 12 08:49:00 2014
Response via : Initial Calibration



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99.9.6

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5693\F35915.D

Vial: 2

Acq On : 12 Jun 2014 9:02 am

Operator: ashleyd

Sample : icc5693-50

Inst : MSF

Misc : op74333,ef5693

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Jun 12 11:12:04 2014

Quant Results File: MF5692.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Thu Jun 12 11:12:01 2014

Response via : Initial Calibration

DataAcq Meth : MF5692

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.93	152	269195	40.00	ppb	0.00
24) Naphthalene-d8	5.86	136	959980	40.00	ppb	0.00
47) Acenaphthene-d10	7.35	164	546078	40.00	ppb	0.00
69) Phenanthrene-d10	9.32	188	928782	40.00	ppb	0.00
83) Chrysene-d12	14.68	240	828849	40.00	ppb	0.00
92) Perylene-d12	17.74	264	739789	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4A	4.93	152	269195	40.00	ppb	0.00
112) Naphthalene-d8A	5.86	136	959980	40.00	ppb	0.00
121) Acenaphthene-d10A	7.35	164	546078	40.00	ppb	0.00
132) Phenanthrene-d10A	9.32	188	928782	40.00	ppb	0.00
147) Chrysene-d12A	14.68	240	828849	40.00	ppb	0.00
155) Perylene-d12A	17.74	264	739789	40.00	ppb	0.00
159) 1,4-Dichlorobenzene-d4b	4.93	152	269195	40.00	ppb	0.00
161) Naphthalene-d8b	5.86	136	959980	40.00	ppb	0.00
163) Acenaphthene-d10b	7.35	164	546078	40.00	ppb	0.00
165) Phenanthrene-d10b	9.32	188	928782	40.00	ppb	0.00
167) Chrysene-d12b	14.68	240	828849	40.00	ppb	0.00
169) 1,4-Dichlorobenzene-d4c	4.93	152	269195	40.00	ppb	0.00
171) Naphthalene-d8c	5.86	136	959980	40.00	ppb	0.00
176) Chrysene-d12c	14.68	240	828849	40.00	ppb	0.00
178) Naphthalene-d8a	5.86	136	959980	40.00	ppb	0.05

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0d	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
8) Phenol-d5	0.00	99	0d	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
25) Nitrobenzene-d5	0.00	82	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.00	172	0d	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
85) Terphenyl-d14	0.00	244	0d	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	

Target Compounds

						Qvalue
160) Benzaldehyde	4.61	105	184920	50.00	ppb	100
162) Hydroquinone	6.13	110	407595	50.00	ppb	100
164) 1,2,4,5-Tetrachlorobenzene	6.53	216	335963	50.00	ppb	100
166) Atrazine	8.88	200	207200	50.00	ppb	100
168) Benzidine	11.89	184	330426	50.00	ppb	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 F35915.D MF5692.M Mon Jun 16 10:05:14 2014 RT1

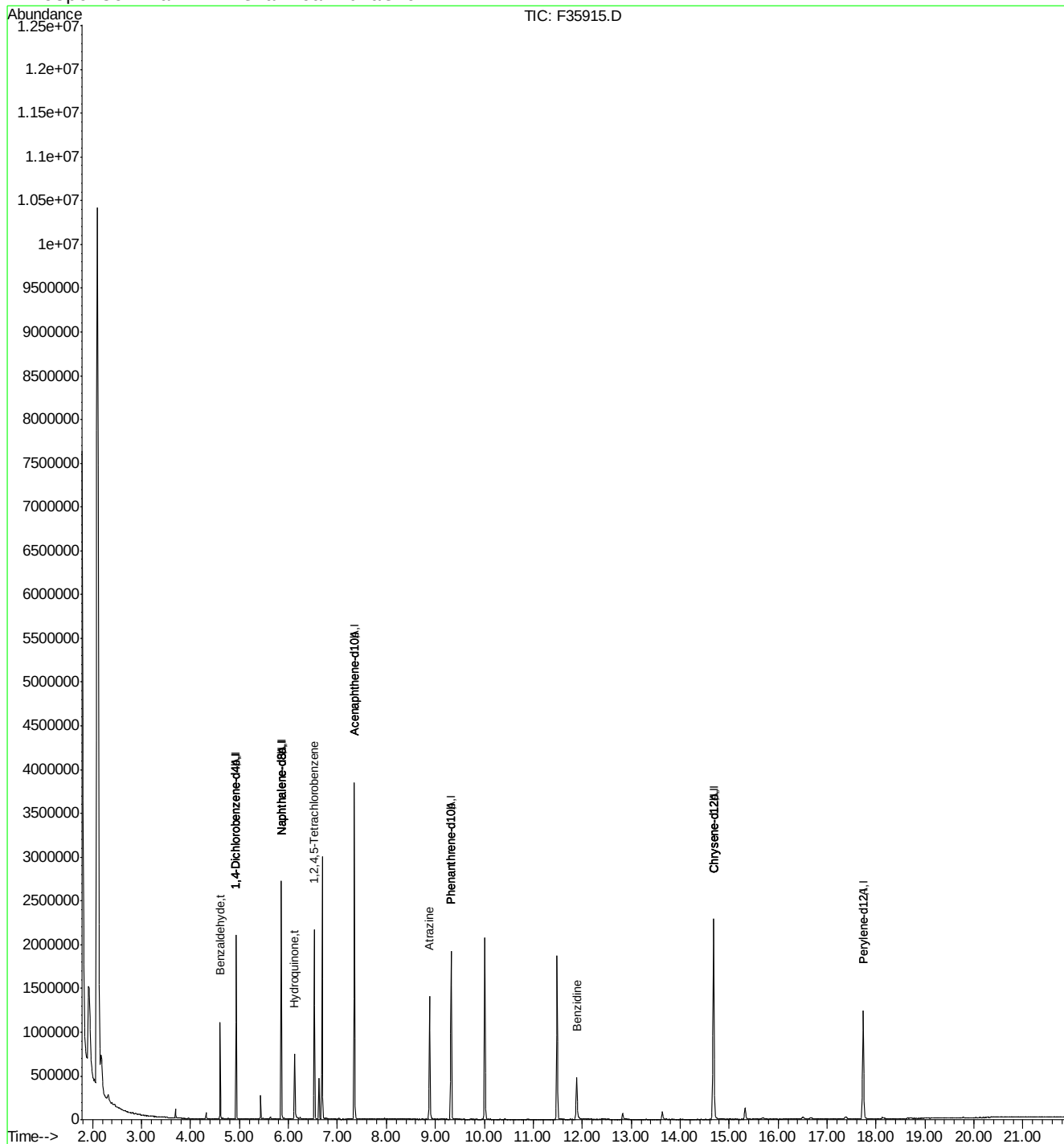
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5693\F35915.D
Acq On : 12 Jun 2014 9:02 am
Sample : icc5693-50
Misc : op74333,ef5693
MS Integration Params: LSCINT.P
Quant Time: Jun 12 11:12 2014

Vial: 2
Operator: ashleyd
Inst : MSF
Multiplr: 1.00

Quant Results File: MF5692.RES

Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 12 15:41:26 2014
Response via : Initial Calibration



F35915.D MF5692.M

Mon Jun 16 10:05:14 2014

RT1

Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5693\F35916.D

Vial: 3

Acq On : 12 Jun 2014 9:30 am

Operator: ashleyd

Sample : ic5693-25

Inst : MSF

Misc : op74333,ef5693

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Jun 12 11:13:14 2014

Quant Results File: MF5692.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Thu Jun 12 11:12:01 2014

Response via : Initial Calibration

DataAcq Meth : MF5692

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.93	152	288394	40.00	ppb	0.00
24) Naphthalene-d8	5.86	136	991997	40.00	ppb	0.00
47) Acenaphthene-d10	7.35	164	542657	40.00	ppb	0.00
69) Phenanthrene-d10	9.32	188	870909	40.00	ppb	0.00
83) Chrysene-d12	14.68	240	856265	40.00	ppb	0.00
92) Perylene-d12	17.74	264	760702	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4A	4.93	152	288394	40.00	ppb	0.00
112) Naphthalene-d8A	5.86	136	991997	40.00	ppb	0.00
121) Acenaphthene-d10A	7.35	164	542657	40.00	ppb	0.00
132) Phenanthrene-d10A	9.32	188	870909	40.00	ppb	0.00
147) Chrysene-d12A	14.68	240	856265	40.00	ppb	0.00
155) Perylene-d12A	17.74	264	760702	40.00	ppb	0.00
159) 1,4-Dichlorobenzene-d4b	4.93	152	288394	40.00	ppb	0.00
161) Naphthalene-d8b	5.86	136	991997	40.00	ppb	0.00
163) Acenaphthene-d10b	7.35	164	542657	40.00	ppb	0.00
165) Phenanthrene-d10b	9.32	188	870909	40.00	ppb	0.00
167) Chrysene-d12b	14.68	240	856265	40.00	ppb	0.00
169) 1,4-Dichlorobenzene-d4c	4.93	152	288394	40.00	ppb	0.00
171) Naphthalene-d8c	5.86	136	991997	40.00	ppb	0.00
176) Chrysene-d12c	14.68	240	856265	40.00	ppb	0.00
178) Naphthalene-d8a	5.86	136	991997	40.00	ppb	0.05

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
8) Phenol-d5	0.00	99	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
25) Nitrobenzene-d5	0.00	82	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.00	172	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
85) Terphenyl-d14	0.00	244	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	

Target Compounds

						Qvalue
160) Benzaldehyde	4.61	105	182866	46.15	ppb	97
162) Hydroquinone	6.12	110	211560	25.11	ppb	99
164) 1,2,4,5-Tetrachlorobenzene	6.53	216	203311	30.45	ppb	98
166) Atrazine	8.87	200	116538	29.99	ppb	98
168) Benzidine	11.88	184	305598	44.76	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 F35916.D MF5692.M Mon Jun 16 10:05:26 2014 RT1

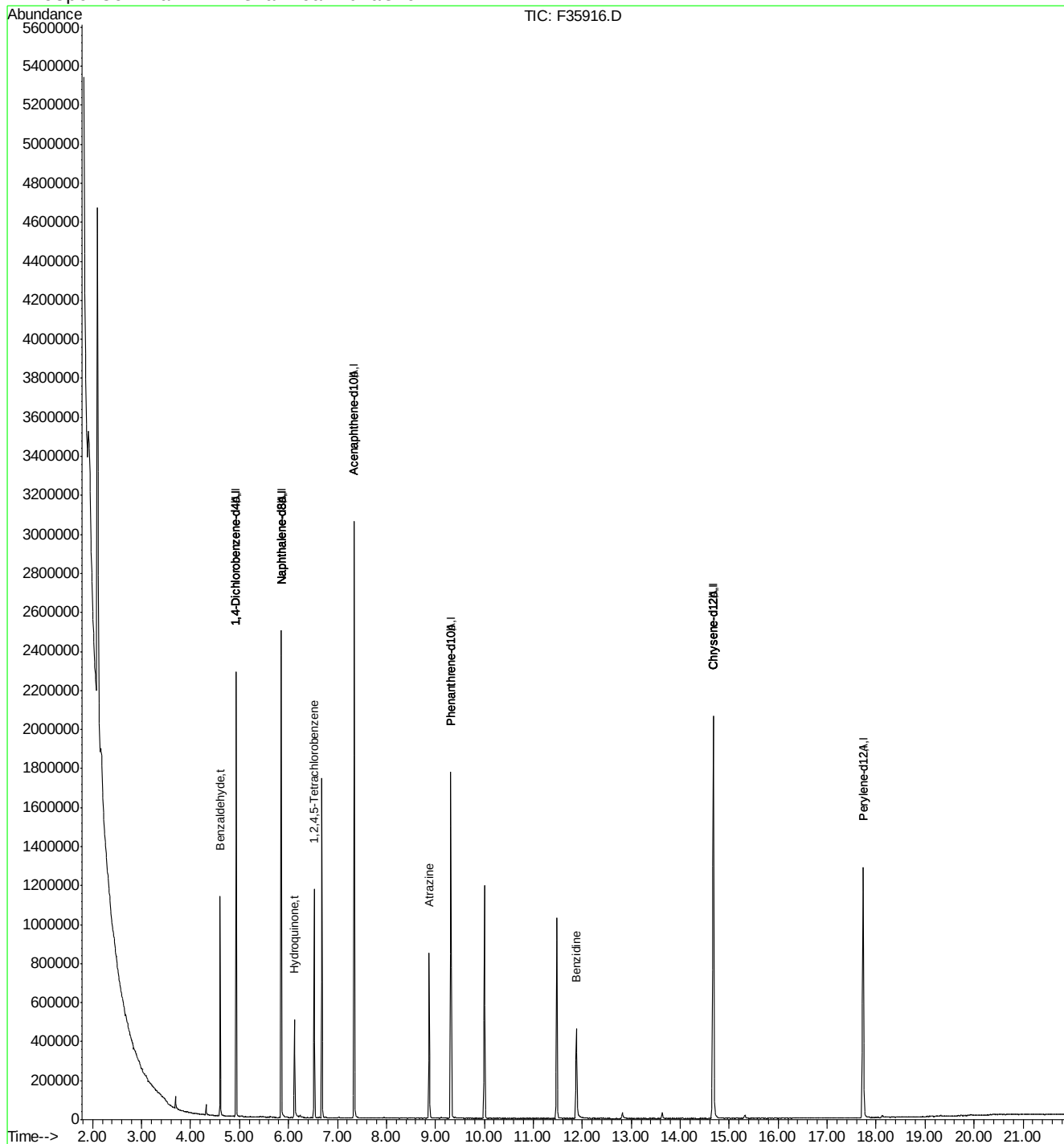
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5693\F35916.D
Acq On : 12 Jun 2014 9:30 am
Sample : ic5693-25
Misc : op74333,ef5693
MS Integration Params: LSCINT.P
Quant Time: Jun 12 11:14 2014

Vial: 3
Operator: ashleyd
Inst : MSF
Multiplr: 1.00

Quant Results File: MF5692.RES

Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 12 15:41:26 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5693\F35917.D

Vial: 4

Acq On : 12 Jun 2014 9:59 am

Operator: ashleyd

Sample : ic5693-100

Inst : MSF

Misc : op74333,ef5693

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Jun 12 11:14:27 2014

Quant Results File: MF5692.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Thu Jun 12 11:12:01 2014

Response via : Initial Calibration

DataAcq Meth : MF5692

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.93	152	190661	40.00	ppb	0.00
24) Naphthalene-d8	5.85	136	696683	40.00	ppb	0.00
47) Acenaphthene-d10	7.35	164	367743	40.00	ppb	0.00
69) Phenanthrene-d10	9.32	188	626769	40.00	ppb	0.00
83) Chrysene-d12	14.67	240	616813	40.00	ppb	-0.01
92) Perylene-d12	17.74	264	562339	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4A	4.93	152	190661	40.00	ppb	0.00
112) Naphthalene-d8A	5.85	136	696683	40.00	ppb	0.00
121) Acenaphthene-d10A	7.35	164	367743	40.00	ppb	0.00
132) Phenanthrene-d10A	9.32	188	626769	40.00	ppb	0.00
147) Chrysene-d12A	14.67	240	616813	40.00	ppb	-0.01
155) Perylene-d12A	17.74	264	562339	40.00	ppb	0.00
159) 1,4-Dichlorobenzene-d4b	4.93	152	190661	40.00	ppb	0.00
161) Naphthalene-d8b	5.85	136	696683	40.00	ppb	0.00
163) Acenaphthene-d10b	7.35	164	367743	40.00	ppb	0.00
165) Phenanthrene-d10b	9.32	188	626769	40.00	ppb	0.00
167) Chrysene-d12b	14.67	240	616813	40.00	ppb	-0.01
169) 1,4-Dichlorobenzene-d4c	4.93	152	190661	40.00	ppb	0.00
171) Naphthalene-d8c	5.85	136	696683	40.00	ppb	0.00
176) Chrysene-d12c	14.67	240	616813	40.00	ppb	-0.01
178) Naphthalene-d8a	5.85	136	696683	40.00	ppb	0.04

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
8) Phenol-d5	0.00	99	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
25) Nitrobenzene-d5	0.00	82	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.00	172	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
85) Terphenyl-d14	0.00	244	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	

Target Compounds

						Qvalue
160) Benzaldehyde	4.61	105	386851	147.68	ppb	97
162) Hydroquinone	6.14	110	664895	112.39	ppb	99
164) 1,2,4,5-Tetrachlorobenzene	6.53	216	509233	112.54	ppb	99
166) Atrazine	8.89	200	327235	117.02	ppb	98
168) Benzidine	11.88	184	528919	107.55	ppb	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 F35917.D MF5692.M Mon Jun 16 10:05:33 2014 RT1

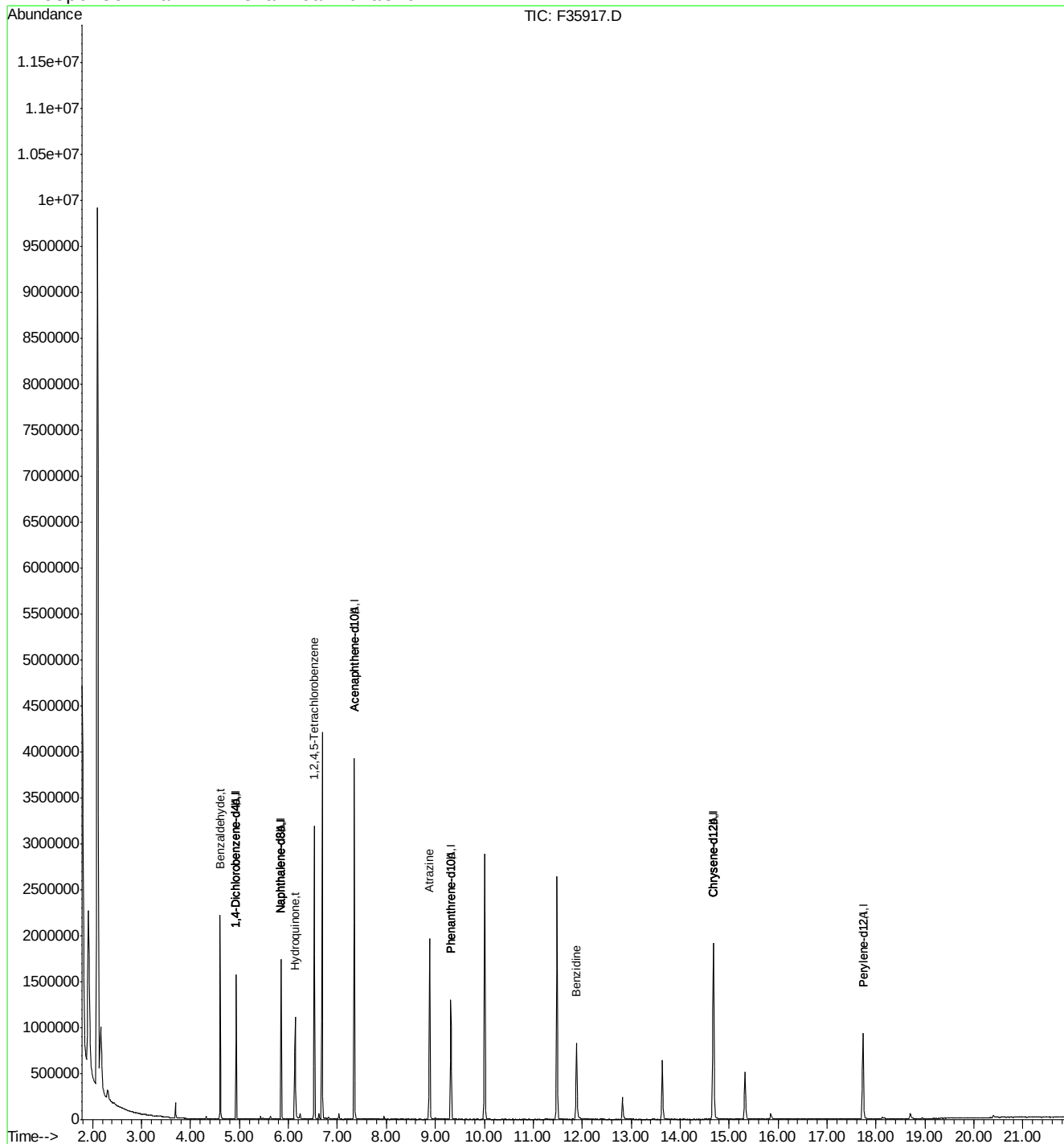
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5693\F35917.D
Acq On : 12 Jun 2014 9:59 am
Sample : ic5693-100
Misc : op74333,ef5693
MS Integration Params: LSCINT.P
Quant Time: Jun 12 11:15 2014

Vial: 4
Operator: ashleyd
Inst : MSF
Multiplr: 1.00

Quant Results File: MF5692.RES

Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 12 15:41:26 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5693\F35918.D

Vial: 5

Acq On : 12 Jun 2014 10:28 am

Operator: ashleyd

Sample : ic5693-80

Inst : MSF

Misc : op74333,ef5693

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Jun 12 11:15:24 2014

Quant Results File: MF5692.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Thu Jun 12 11:12:01 2014

Response via : Initial Calibration

DataAcq Meth : MF5692

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.93	152	199131	40.00	ppb	0.00
24) Naphthalene-d8	5.85	136	721583	40.00	ppb	0.00
47) Acenaphthene-d10	7.35	164	397156	40.00	ppb	0.00
69) Phenanthrene-d10	9.32	188	677795	40.00	ppb	0.00
83) Chrysene-d12	14.68	240	661324	40.00	ppb	0.00
92) Perylene-d12	17.74	264	596766	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4A	4.93	152	199131	40.00	ppb	0.00
112) Naphthalene-d8A	5.85	136	721583	40.00	ppb	0.00
121) Acenaphthene-d10A	7.35	164	397156	40.00	ppb	0.00
132) Phenanthrene-d10A	9.32	188	677795	40.00	ppb	0.00
147) Chrysene-d12A	14.68	240	661324	40.00	ppb	0.00
155) Perylene-d12A	17.74	264	596766	40.00	ppb	0.00
159) 1,4-Dichlorobenzene-d4b	4.93	152	199131	40.00	ppb	0.00
161) Naphthalene-d8b	5.85	136	721583	40.00	ppb	0.00
163) Acenaphthene-d10b	7.35	164	397156	40.00	ppb	0.00
165) Phenanthrene-d10b	9.32	188	677795	40.00	ppb	0.00
167) Chrysene-d12b	14.68	240	661324	40.00	ppb	0.00
169) 1,4-Dichlorobenzene-d4c	4.93	152	199131	40.00	ppb	0.00
171) Naphthalene-d8c	5.85	136	721583	40.00	ppb	0.00
176) Chrysene-d12c	14.68	240	661324	40.00	ppb	0.00
178) Naphthalene-d8a	5.85	136	721583	40.00	ppb	0.04

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
8) Phenol-d5	0.00	99	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
25) Nitrobenzene-d5	0.00	82	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.00	172	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
85) Terphenyl-d14	0.00	244	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	

Target Compounds

						Qvalue
160) Benzaldehyde	4.61	105	350260	128.03	ppb	97
162) Hydroquinone	6.14	110	582879	95.13	ppb	99
164) 1,2,4,5-Tetrachlorobenzene	6.53	216	436797	89.38	ppb	99
166) Atrazine	8.88	200	286735	94.81	ppb	99
168) Benzidine	11.89	184	461238	87.47	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 F35918.D MF5692.M Mon Jun 16 10:05:40 2014 RT1

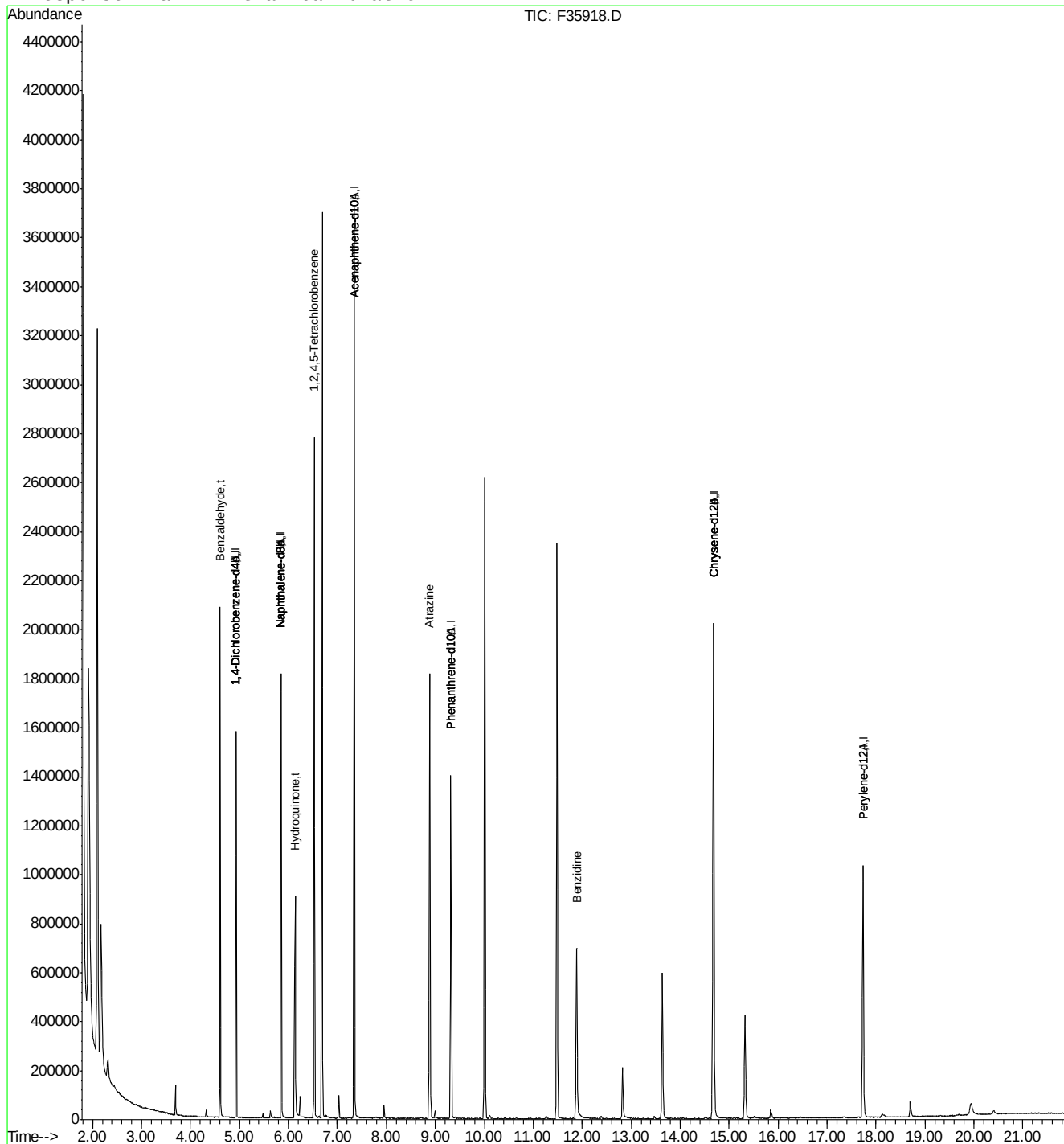
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5693\F35918.D
Acq On : 12 Jun 2014 10:28 am
Sample : ic5693-80
Misc : op74333,ef5693
MS Integration Params: LSCINT.P
Quant Time: Jun 12 11:15 2014

Vial: 5
Operator: ashleyd
Inst : MSF
Multiplr: 1.00

Quant Results File: MF5692.RES

Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 12 15:41:26 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5693\F35919.D

Vial: 6

Acq On : 12 Jun 2014 10:57 am

Operator: ashleyd

Sample : ic5693-10

Inst : MSF

Misc : op74333,ef5693

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Jun 12 11:42:06 2014

Quant Results File: MF5692.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Thu Jun 12 11:12:01 2014

Response via : Initial Calibration

DataAcq Meth : MF5692

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.93	152	350701	40.00	ppb	0.00
24) Naphthalene-d8	5.86	136	1211727	40.00	ppb	0.00
47) Acenaphthene-d10	7.35	164	723434	40.00	ppb	0.00
69) Phenanthrene-d10	9.32	188	1178236	40.00	ppb	0.00
83) Chrysene-d12	14.68	240	1170642	40.00	ppb	0.00
92) Perylene-d12	17.74	264	1043944	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4A	4.93	152	350701	40.00	ppb	0.00
112) Naphthalene-d8A	5.86	136	1211727	40.00	ppb	0.00
121) Acenaphthene-d10A	7.35	164	723434	40.00	ppb	0.00
132) Phenanthrene-d10A	9.32	188	1178236	40.00	ppb	0.00
147) Chrysene-d12A	14.68	240	1170642	40.00	ppb	0.00
155) Perylene-d12A	17.74	264	1043944	40.00	ppb	0.00
159) 1,4-Dichlorobenzene-d4b	4.93	152	350701	40.00	ppb	0.00
161) Naphthalene-d8b	5.86	136	1211727	40.00	ppb	0.00
163) Acenaphthene-d10b	7.35	164	723434	40.00	ppb	0.00
165) Phenanthrene-d10b	9.32	188	1178236	40.00	ppb	0.00
167) Chrysene-d12b	14.68	240	1170642	40.00	ppb	0.00
169) 1,4-Dichlorobenzene-d4c	4.93	152	350701	40.00	ppb	0.00
171) Naphthalene-d8c	5.86	136	1211727	40.00	ppb	0.00
176) Chrysene-d12c	14.68	240	1170642	40.00	ppb	0.00
178) Naphthalene-d8a	5.86	136	1211727	40.00	ppb	0.05

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
8) Phenol-d5	0.00	99	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
25) Nitrobenzene-d5	0.00	82	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.00	172	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
85) Terphenyl-d14	0.00	244	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	

Target Compounds

						Qvalue
160) Benzaldehyde	4.61	105	105074	21.81	ppb	94
162) Hydroquinone	6.12	110	107580	10.46	ppb	100
164) 1,2,4,5-Tetrachlorobenzene	6.52	216	108248	12.16	ppb	98
166) Atrazine	8.87	200	65434	12.45	ppb	98
168) Benzidine	11.88	184	226070	24.22	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 F35919.D MF5692.M Mon Jun 16 10:05:48 2014 RT1

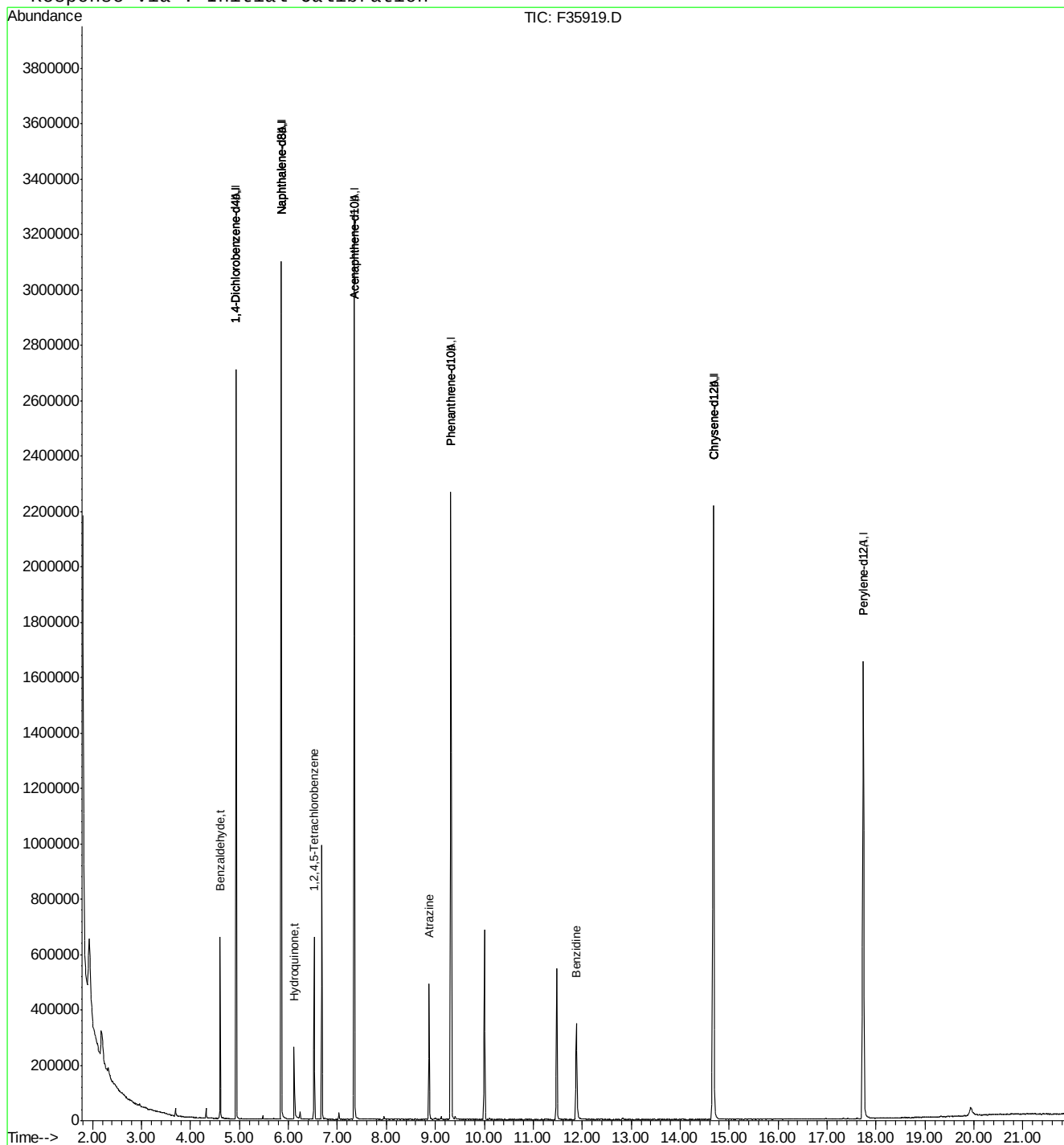
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5693\F35919.D
Acq On : 12 Jun 2014 10:57 am
Sample : ic5693-10
Misc : op74333,ef5693
MS Integration Params: LSCINT.P
Quant Time: Jun 12 11:42 2014

Vial: 6
Operator: ashleyd
Inst : MSF
Multiplr: 1.00

Quant Results File: MF5692.RES

Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 12 15:41:26 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5693\F35920.D

Vial: 7

Acq On : 12 Jun 2014 11:26 am

Operator: ashleyd

Sample : ic5693-5

Inst : MSF

Misc : op74333,ef5693

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Jun 12 12:38:16 2014

Quant Results File: MF5692.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Thu Jun 12 11:12:01 2014

Response via : Initial Calibration

DataAcq Meth : MF5692

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.93	152	250435	40.00	ppb	0.00
24) Naphthalene-d8	5.86	136	880707	40.00	ppb	0.00
47) Acenaphthene-d10	7.35	164	511195	40.00	ppb	0.00
69) Phenanthrene-d10	9.32	188	807464	40.00	ppb	0.00
83) Chrysene-d12	14.68	240	797699	40.00	ppb	0.00
92) Perylene-d12	17.74	264	705435	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4A	4.93	152	250435	40.00	ppb	0.00
112) Naphthalene-d8A	5.86	136	880707	40.00	ppb	0.00
121) Acenaphthene-d10A	7.35	164	511195	40.00	ppb	0.00
132) Phenanthrene-d10A	9.32	188	807464	40.00	ppb	0.00
147) Chrysene-d12A	14.68	240	797699	40.00	ppb	0.00
155) Perylene-d12A	17.74	264	705435	40.00	ppb	0.00
159) 1,4-Dichlorobenzene-d4b	4.93	152	250435	40.00	ppb	0.00
161) Naphthalene-d8b	5.86	136	880707	40.00	ppb	0.00
163) Acenaphthene-d10b	7.35	164	511195	40.00	ppb	0.00
165) Phenanthrene-d10b	9.32	188	807464	40.00	ppb	0.00
167) Chrysene-d12b	14.68	240	797699	40.00	ppb	0.00
169) 1,4-Dichlorobenzene-d4c	4.93	152	250435	40.00	ppb	0.00
171) Naphthalene-d8c	5.86	136	880707	40.00	ppb	0.00
176) Chrysene-d12c	14.68	240	797699	40.00	ppb	0.00
178) Naphthalene-d8a	5.86	136	880707	40.00	ppb	0.05

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
8) Phenol-d5	0.00	99	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
25) Nitrobenzene-d5	0.00	82	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.00	172	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
85) Terphenyl-d14	0.00	244	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	

Target Compounds

						Qvalue
160) Benzaldehyde	4.61	105	35438	10.30	ppb	97
162) Hydroquinone	6.12	110	27748	3.71	ppb	99
164) 1,2,4,5-Tetrachlorobenzene	6.53	216	37401	5.95	ppb	99
166) Atrazine	8.87	200	19420	5.39	ppb	99
168) Benzidine	11.88	184	60978	9.59	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 F35920.D MF5692.M Mon Jun 16 10:05:57 2014 RT1

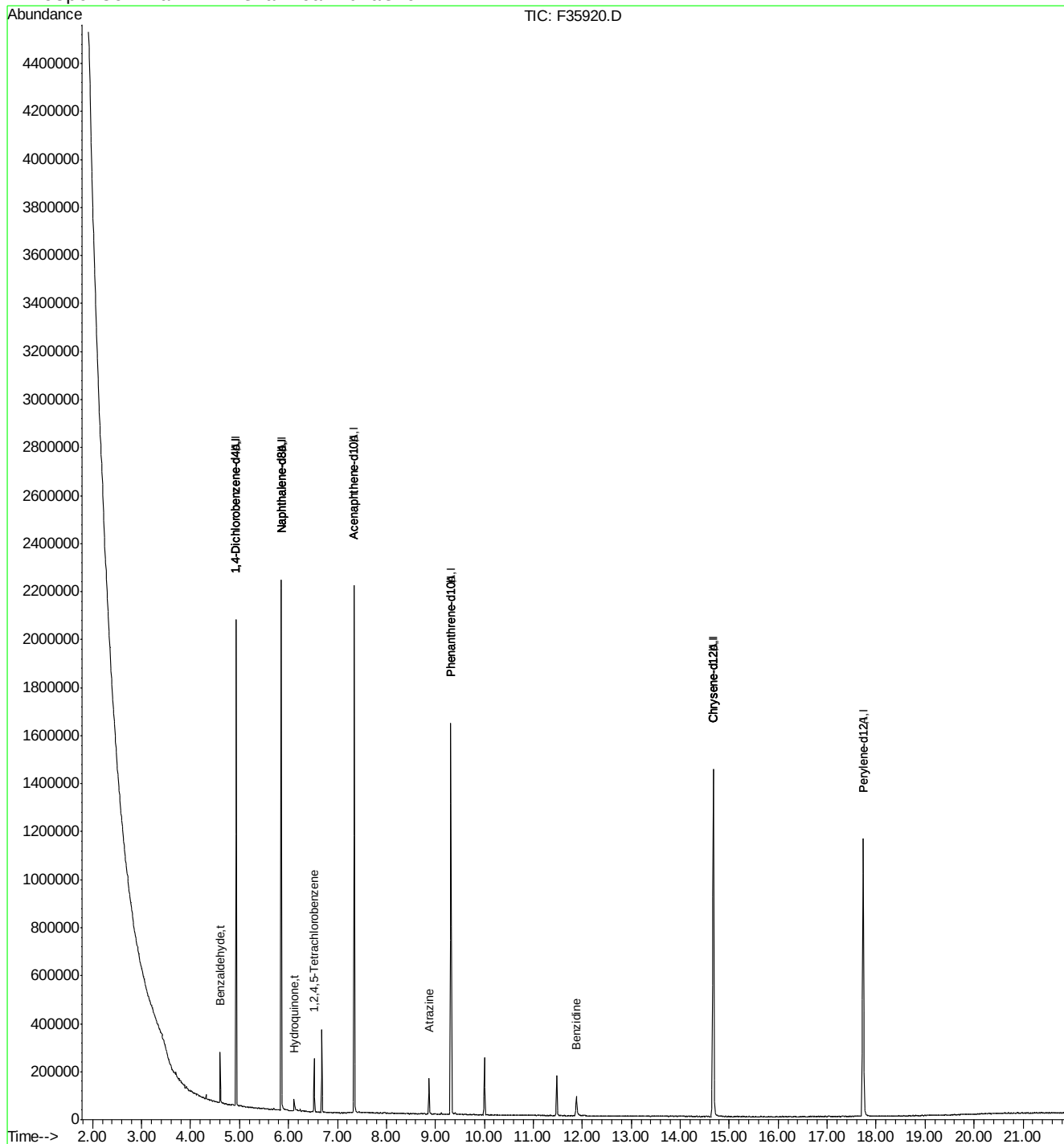
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5693\F35920.D
Acq On : 12 Jun 2014 11:26 am
Sample : ic5693-5
Misc : op74333,ef5693
MS Integration Params: LSCINT.P
Quant Time: Jun 12 12:38 2014

Vial: 7
Operator: ashleyd
Inst : MSF
Multiplr: 1.00

Quant Results File: MF5692.RES

Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 12 15:41:26 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5693\F35921.D

Vial: 8

Acq On : 12 Jun 2014 11:55 am

Operator: ashleyd

Sample : ic5693-2

Inst : MSF

Misc : op74333,ef5693

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Jun 12 12:39:05 2014

Quant Results File: MF5692.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Thu Jun 12 11:12:01 2014

Response via : Initial Calibration

DataAcq Meth : MF5692

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.93	152	271834	40.00	ppb	0.00
24) Naphthalene-d8	5.86	136	953079	40.00	ppb	0.00
47) Acenaphthene-d10	7.35	164	575546	40.00	ppb	0.00
69) Phenanthrene-d10	9.32	188	922062	40.00	ppb	0.00
83) Chrysene-d12	14.68	240	931033	40.00	ppb	0.00
92) Perylene-d12	17.74	264	813213	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4A	4.93	152	271834	40.00	ppb	0.00
112) Naphthalene-d8A	5.86	136	953079	40.00	ppb	0.00
121) Acenaphthene-d10A	7.35	164	575546	40.00	ppb	0.00
132) Phenanthrene-d10A	9.32	188	922062	40.00	ppb	0.00
147) Chrysene-d12A	14.68	240	931033	40.00	ppb	0.00
155) Perylene-d12A	17.74	264	813213	40.00	ppb	0.00
159) 1,4-Dichlorobenzene-d4b	4.93	152	271834	40.00	ppb	0.00
161) Naphthalene-d8b	5.86	136	953079	40.00	ppb	0.00
163) Acenaphthene-d10b	7.35	164	575546	40.00	ppb	0.00
165) Phenanthrene-d10b	9.32	188	922062	40.00	ppb	0.00
167) Chrysene-d12b	14.68	240	931033	40.00	ppb	0.00
169) 1,4-Dichlorobenzene-d4c	4.93	152	271834	40.00	ppb	0.00
171) Naphthalene-d8c	5.86	136	953079	40.00	ppb	0.00
176) Chrysene-d12c	14.68	240	931033	40.00	ppb	0.00
178) Naphthalene-d8a	5.86	136	953079	40.00	ppb	0.05

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
8) Phenol-d5	0.00	99	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
25) Nitrobenzene-d5	0.00	82	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.00	172	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
85) Terphenyl-d14	0.00	244	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	

Target Compounds

						Qvalue
160) Benzaldehyde	4.61	105	15359	4.11	ppb	95
162) Hydroquinone	6.13	110	5666	0.70	ppb	86
164) 1,2,4,5-Tetrachlorobenzene	6.52	216	16753	2.37	ppb	94
166) Atrazine	8.87	200	8393	2.04	ppb	94
168) Benzidine	11.88	184	18774	2.53	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 F35921.D MF5692.M Mon Jun 16 10:06:04 2014 RT1

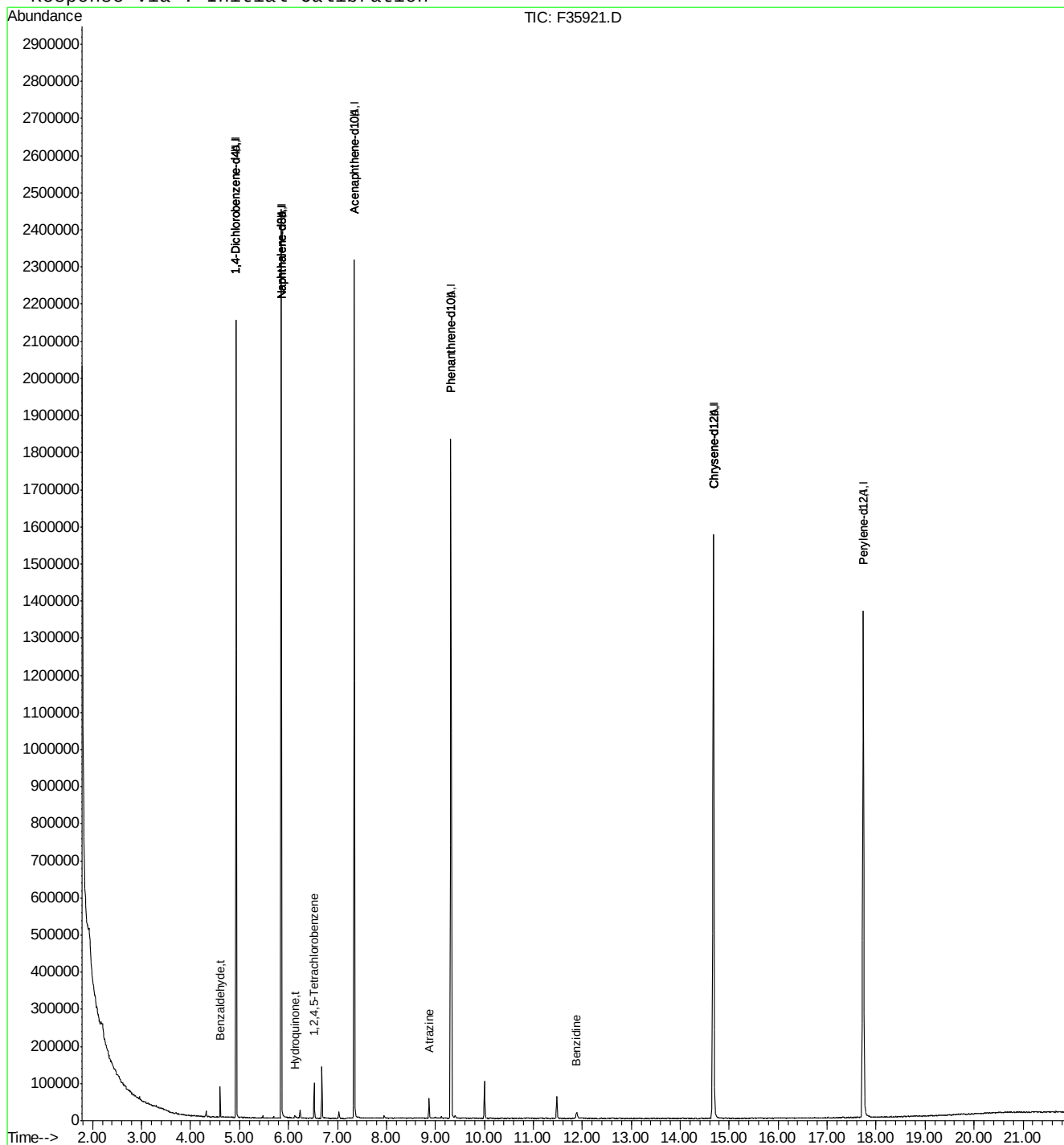
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5693\F35921.D
Acq On : 12 Jun 2014 11:55 am
Sample : ic5693-2
Misc : op74333,ef5693
MS Integration Params: LSCINT.P
Quant Time: Jun 12 12:39 2014

Vial: 8
Operator: ashleyd
Inst : MSF
Multiplr: 1.00

Quant Results File: MF5692.RES

Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 12 15:41:26 2014
Response via : Initial Calibration



F35921.D MF5692.M

Mon Jun 16 10:06:04 2014

RT1

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Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5693\F35922.D Vial: 9
 Acq On : 12 Jun 2014 12:24 pm Operator: ashleyd
 Sample : ic5693-1 Inst : MSF
 Misc : op74333,ef5693 Multiplr: 1.00
 MS Integration Params: LSCINT.P
 Quant Time: Jun 12 12:46:05 2014 Quant Results File: MF5692.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)
 Title : Semi Volatile Extractables by GC/MS
 Last Update : Thu Jun 12 12:43:07 2014
 Response via : Initial Calibration
 DataAcq Meth : MF5692

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.93	152	266511	40.00	ppb	0.00
24) Naphthalene-d8	5.86	136	950700	40.00	ppb	0.00
47) Acenaphthene-d10	7.35	164	576587	40.00	ppb	0.00
69) Phenanthrene-d10	9.32	188	916168	40.00	ppb	0.00
83) Chrysene-d12	14.68	240	919224	40.00	ppb	0.00
92) Perylene-d12	17.74	264	811842	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4A	4.93	152	266511	40.00	ppb	0.00
112) Naphthalene-d8A	5.86	136	950700	40.00	ppb	0.00
121) Acenaphthene-d10A	7.35	164	576587	40.00	ppb	0.00
132) Phenanthrene-d10A	9.32	188	916168	40.00	ppb	0.00
147) Chrysene-d12A	14.68	240	919224	40.00	ppb	0.00
155) Perylene-d12A	17.74	264	811842	40.00	ppb	0.00
159) 1,4-Dichlorobenzene-d4b	4.93	152	266511	40.00	ppb	0.00
161) Naphthalene-d8b	5.86	136	950700	40.00	ppb	0.00
163) Acenaphthene-d10b	7.35	164	576587	40.00	ppb	0.00
165) Phenanthrene-d10b	9.32	188	916168	40.00	ppb	0.00
167) Chrysene-d12b	14.68	240	919224	40.00	ppb	0.00
169) 1,4-Dichlorobenzene-d4c	4.93	152	266511	40.00	ppb	0.00
171) Naphthalene-d8c	5.86	136	950700	40.00	ppb	0.00
176) Chrysene-d12c	14.68	240	919224	40.00	ppb	0.00
178) Naphthalene-d8a	5.86	136	950700	40.00	ppb	0.05

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.00	99	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.00	82	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.00	172	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.00	244	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	

Target Compounds

						Qvalue
160) Benzaldehyde	4.61	105	7635	1.41	ppb	95
162) Hydroquinone	6.13	110	2183	0.25	ppb	84
164) 1,2,4,5-Tetrachlorobenzene	6.53	216	7955	1.01	ppb	98
166) Atrazine	8.87	200	3509	0.75	ppb	96
168) Benzidine	11.88	184	8008m	0.88	ppb	

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 F35922.D MF5692.M Mon Jun 16 10:07:49 2014 RT1

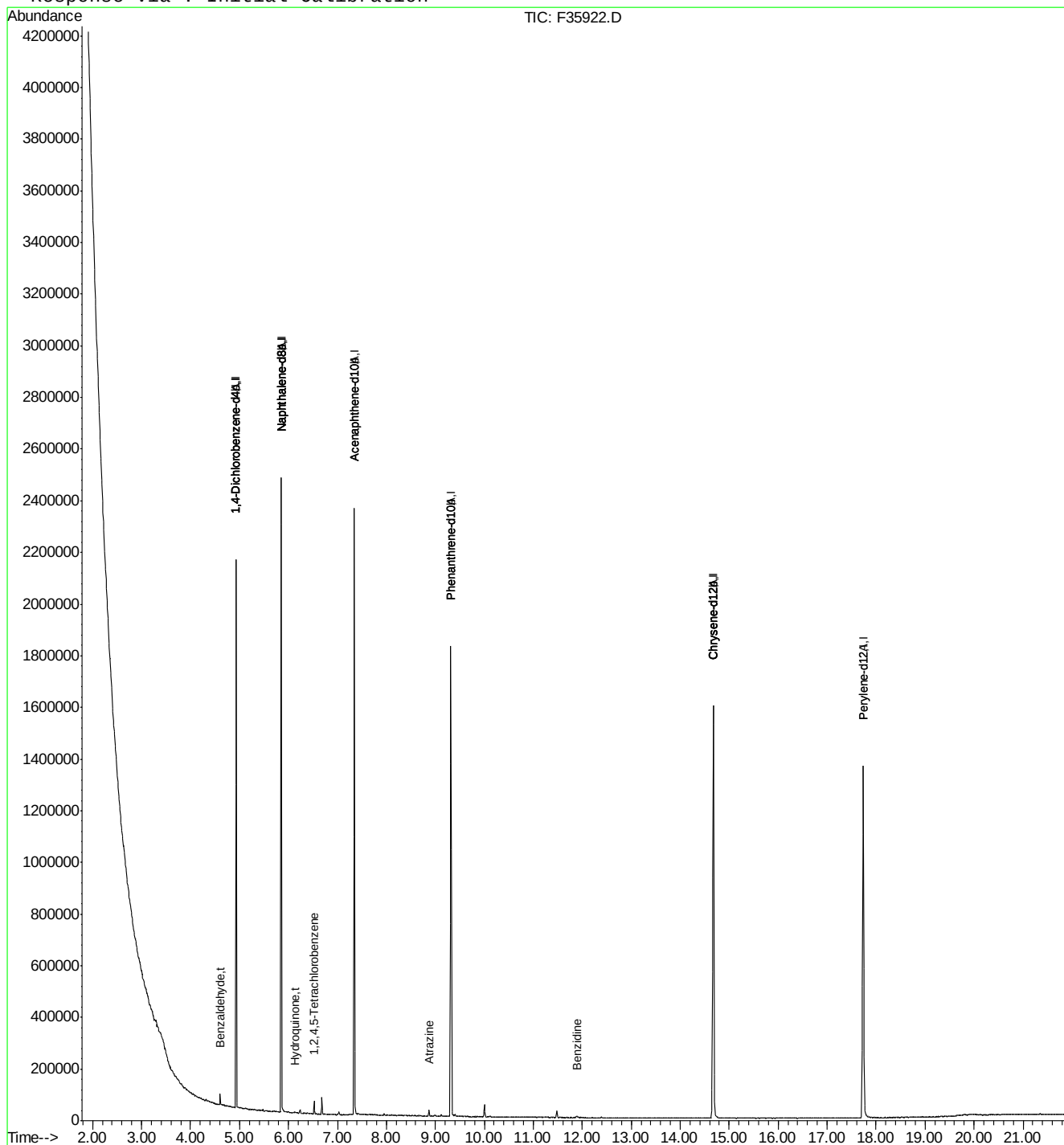
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5693\F35922.D
Acq On : 12 Jun 2014 12:24 pm
Sample : ic5693-1
Misc : op74333,ef5693
MS Integration Params: LSCINT.P
Quant Time: Jun 12 13:01 2014

Vial: 9
Operator: ashleyd
Inst : MSF
Multiplr: 1.00

Quant Results File: MF5692.RES

Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 12 15:41:26 2014
Response via : Initial Calibration



F35922.D MF5692.M

Mon Jun 16 10:07:49 2014

RT1

Page 2

Manual Integration Approval Summary

Sample Number: EF5693-IC5693

Method: SW846 8270D

Lab FileID: F35922.D

Analyst approved: 06/12/14 16:25 Kristi Schollenberger

Injection Time: 06/12/14 12:24

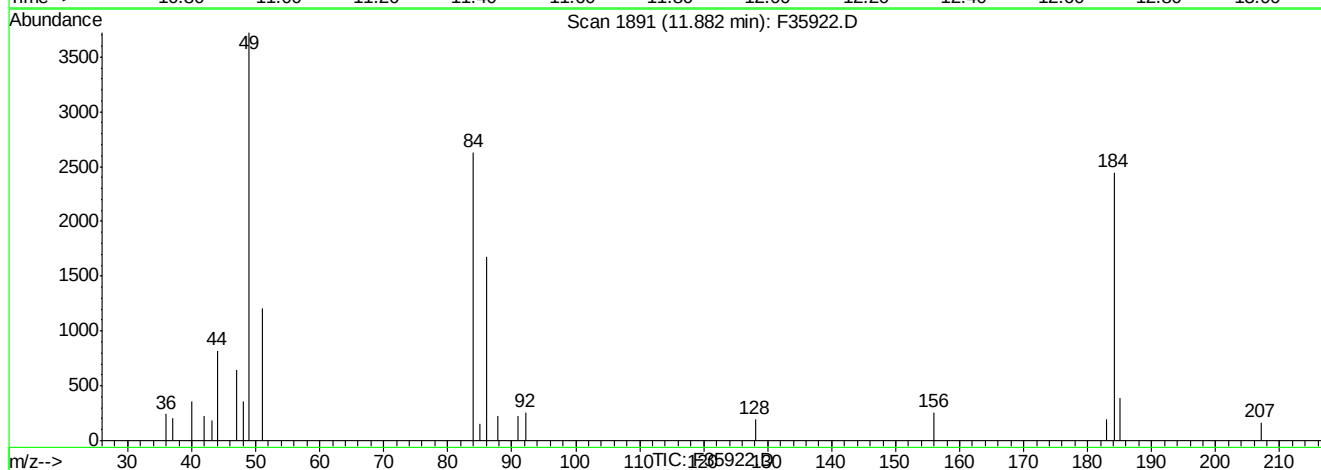
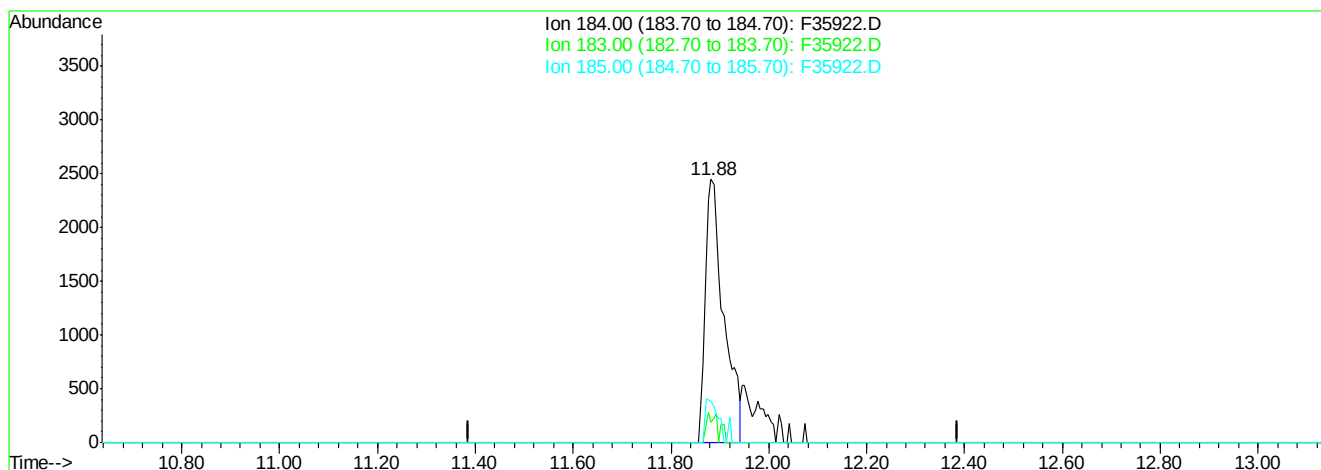
Supervisor approved: 06/16/14 10:09 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzidine	92-87-5		11.88	Poor instrument integration

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF5693\F35922.D Vial: 9
Acq On : 12 Jun 2014 12:24 pm Operator: ashleyd
Sample : ic5693-1 Inst : MSF
Misc : op74333,ef5693 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 13:01 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 12 13:00:38 2014
Response via : Multiple Level Calibration



(168) Benzidine

11.88min 0.71ppb

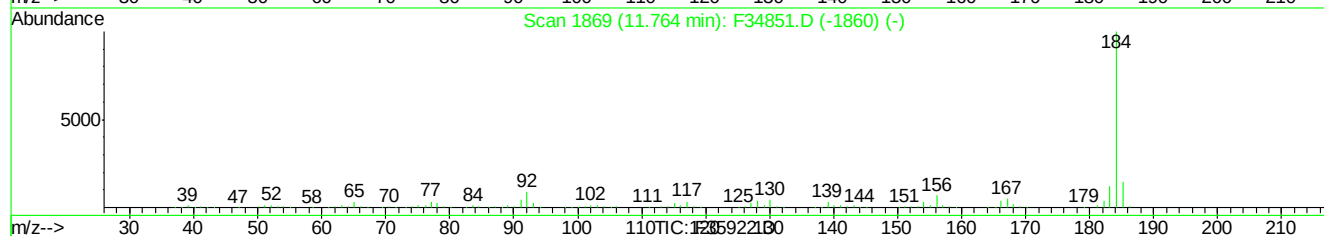
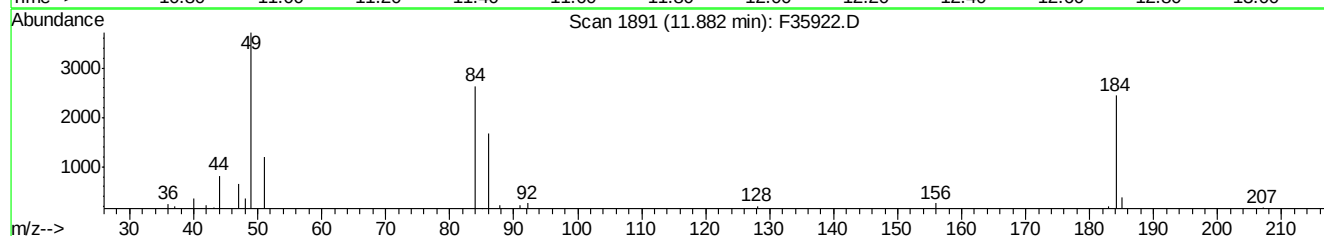
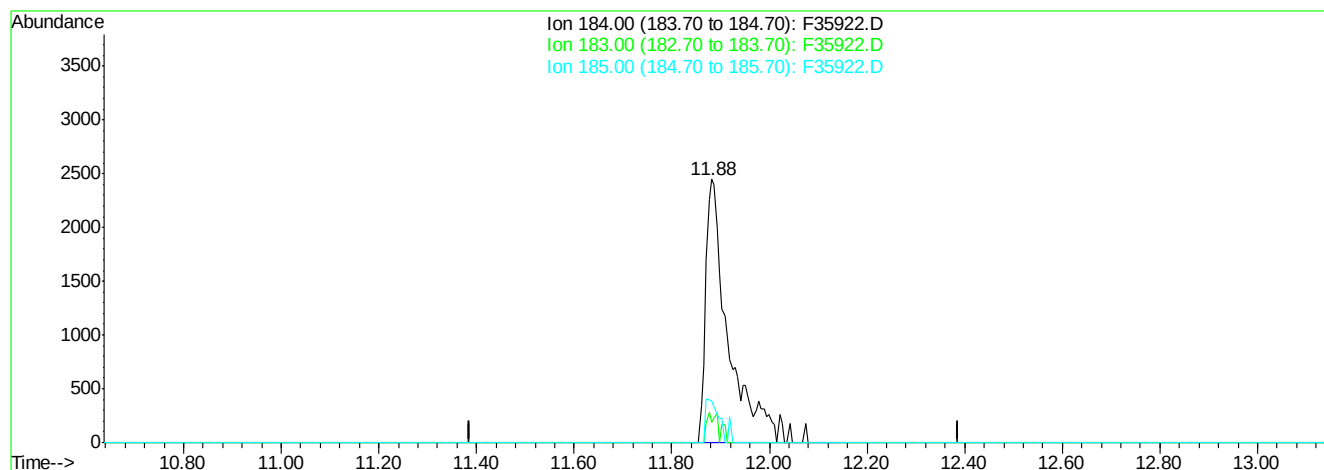
response 6409

Ion	Exp%	Act%
184.00	100	100
183.00	11.40	8.52
185.00	15.10	17.27
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF5693\F35922.D Vial: 9
Acq On : 12 Jun 2014 12:24 pm Operator: ashleyd
Sample : ic5693-1 Inst : MSF
Misc : op74333,ef5693 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 13:01 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 12 15:41:26 2014
Response via : Multiple Level Calibration



(168) Benzidine

11.88min 0.88ppb m

response 8008

Ion	Exp%	Act%
184.00	100	100
183.00	11.40	7.84
185.00	15.10	15.89
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5693\F35924A.D Vial: 11
 Acq On : 12 Jun 2014 1:22 pm Operator: ashleyd
 Sample : icv5693-50 Inst : MSF
 Misc : op74333,ef5693,bn1 Multiplr: 1.00
 MS Integration Params: LSCINT.P
 Quant Time: Jun 12 15:41:58 2014 Quant Results File: MF5692.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)
 Title : Semi Volatile Extractables by GC/MS
 Last Update : Thu Jun 12 15:41:26 2014
 Response via : Initial Calibration
 DataAcq Meth : MF5692

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.93	152	214464	40.00	ppb	0.00
24) Naphthalene-d8	5.86	136	745452	40.00	ppb	0.00
47) Acenaphthene-d10	7.35	164	425570	40.00	ppb	0.00
69) Phenanthrene-d10	9.32	188	661133	40.00	ppb	0.00
83) Chrysene-d12	14.68	240	614708	40.00	ppb	0.00
92) Perylene-d12	17.74	264	581544	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4A	4.93	152	214464	40.00	ppb	0.00
112) Naphthalene-d8A	5.86	136	745452	40.00	ppb	0.00
121) Acenaphthene-d10A	7.35	164	425570	40.00	ppb	0.00
132) Phenanthrene-d10A	9.32	188	661133	40.00	ppb	0.00
147) Chrysene-d12A	14.68	240	614708	40.00	ppb	0.00
155) Perylene-d12A	17.74	264	581544	40.00	ppb	0.00
159) 1,4-Dichlorobenzene-d4b	4.93	152	214464	40.00	ppb	0.00
161) Naphthalene-d8b	5.86	136	745452	40.00	ppb	0.00
163) Acenaphthene-d10b	7.35	164	425570	40.00	ppb	0.00
165) Phenanthrene-d10b	9.32	188	661133	40.00	ppb	0.00
167) Chrysene-d12b	14.68	240	614708	40.00	ppb	0.00
169) 1,4-Dichlorobenzene-d4c	4.93	152	214464	40.00	ppb	0.00
171) Naphthalene-d8c	5.86	136	745452	40.00	ppb	0.00
176) Chrysene-d12c	14.68	240	614708	40.00	ppb	0.00
178) Naphthalene-d8a	5.86	136	745452	40.00	ppb	0.05

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.00	99	0d	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.00	82	0d	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.00	172	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.00	244	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	

Target Compounds

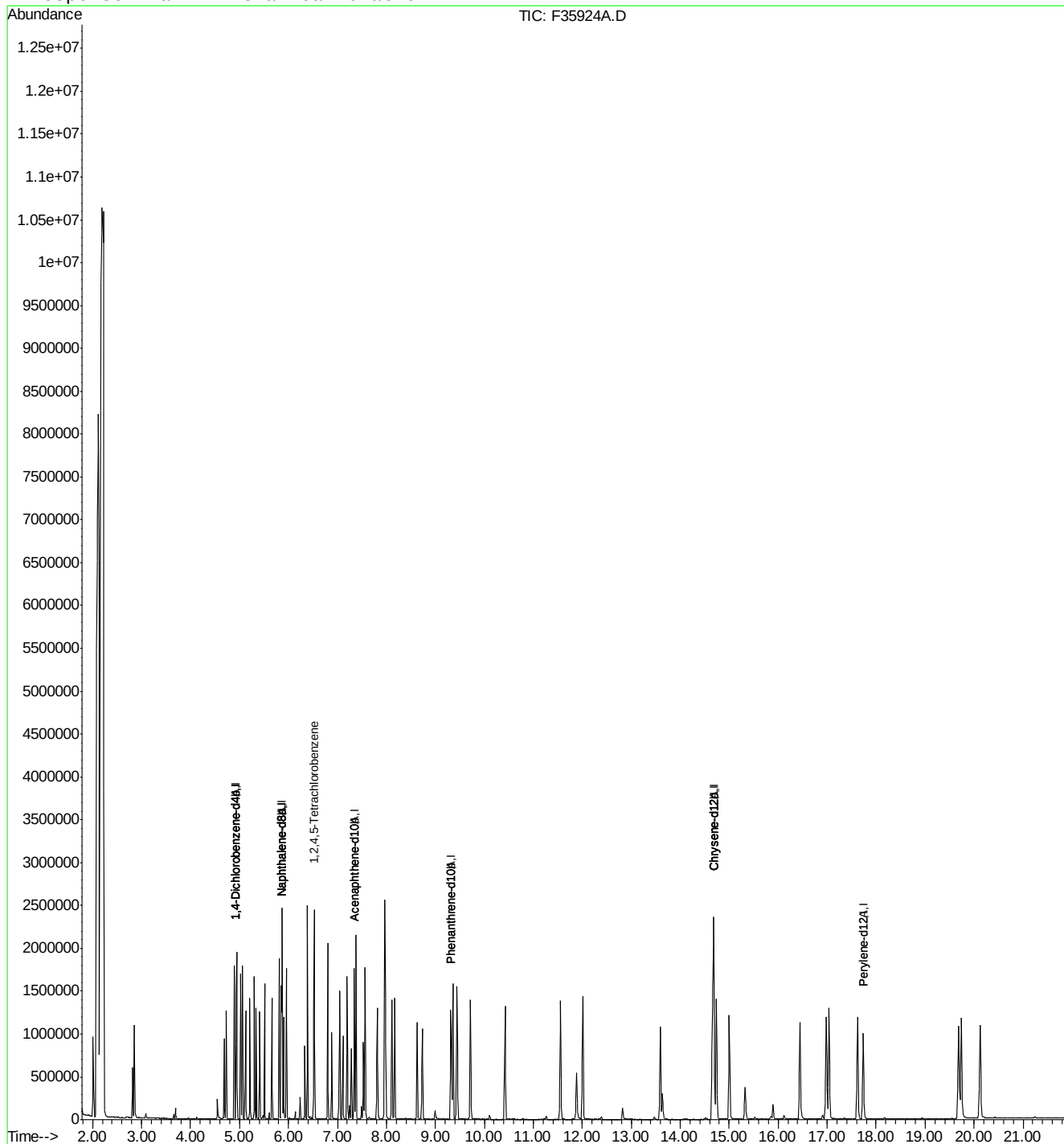
						Qvalue
164) 1,2,4,5-Tetrachlorobenzene	6.53	216	297685	49.60	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 F35924A.D MF5692.M Thu Jun 12 15:59:44 2014 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5693\F35924A.D Vial: 11
Acq On : 12 Jun 2014 1:22 pm Operator: ashleyd
Sample : icv5693-50 Inst : MSF
Misc : op74333,ef5693,bn1 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 15:59 2014 Quant Results File: MF5692.RES

Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 12 15:41:26 2014
Response via : Initial Calibration



F35924A.D MF5692.M

Thu Jun 12 15:59:44 2014

RT1

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Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5693\F35924.D

Vial: 11

Acq On : 12 Jun 2014 1:22 pm

Operator: ashleyd

Sample : icv5692-50

Inst : MSF

Misc : op74333,ef5693,bn1

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Jun 12 15:41:58 2014

Quant Results File: MF5692.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Thu Jun 12 15:41:26 2014

Response via : Initial Calibration

DataAcq Meth : MF5692

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.93	152	214464	40.00	ppb	0.00
24) Naphthalene-d8	5.86	136	745452	40.00	ppb	0.00
47) Acenaphthene-d10	7.35	164	425570	40.00	ppb	0.00
69) Phenanthrene-d10	9.32	188	661133	40.00	ppb	0.00
83) Chrysene-d12	14.68	240	614708	40.00	ppb	0.00
92) Perylene-d12	17.74	264	581544	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4A	4.93	152	214464	40.00	ppb	0.00
112) Naphthalene-d8A	5.86	136	745452	40.00	ppb	0.00
121) Acenaphthene-d10A	7.35	164	425570	40.00	ppb	0.00
132) Phenanthrene-d10A	9.32	188	661133	40.00	ppb	0.00
147) Chrysene-d12A	14.68	240	614708	40.00	ppb	0.00
155) Perylene-d12A	17.74	264	581544	40.00	ppb	0.00
159) 1,4-Dichlorobenzene-d4b	4.93	152	214464	40.00	ppb	0.00
161) Naphthalene-d8b	5.86	136	745452	40.00	ppb	0.00
163) Acenaphthene-d10b	7.35	164	425570	40.00	ppb	0.00
165) Phenanthrene-d10b	9.32	188	661133	40.00	ppb	0.00
167) Chrysene-d12b	14.68	240	614708	40.00	ppb	0.00
169) 1,4-Dichlorobenzene-d4c	4.93	152	214464	40.00	ppb	0.00
171) Naphthalene-d8c	5.86	136	745452	40.00	ppb	0.00
176) Chrysene-d12c	14.68	240	614708	40.00	ppb	0.00
178) Naphthalene-d8a	5.86	136	745452	40.00	ppb	0.05

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
8) Phenol-d5	0.00	99	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
25) Nitrobenzene-d5	0.00	82	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.00	172	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
85) Terphenyl-d14	0.00	244	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	

Target Compounds

						Qvalue
3) Pyridine	2.85	79	392504	43.45	ppb	98
4) N-Nitrosodimethylamine	2.82	42	152118	39.42	ppb	98
11) bis(2-Chloroethyl)ether	4.73	93	331472	43.92	ppb	97
14) 1,3-Dichlorobenzene	4.89	146	382818	41.29	ppb	100
15) 1,4-Dichlorobenzene	4.94	146	373857	40.62	ppb	99
16) Benzyl alcohol	5.03	108	236605	42.23	ppb	99
17) 1,2-Dichlorobenzene	5.06	146	361375	41.70	ppb	100
20) 2,2'-oxybis(1-Chloropropan	5.12	121	115730	45.28	ppb	98
22) n-Nitroso-di-n-propylamine	5.21	70	236519	44.43	ppb	97
23) Hexachloroethane	5.31	201	126706	43.67	ppb	97
26) Nitrobenzene	5.34	77	336899	42.06	ppb	93
28) Isophorone	5.51	82	566770	40.76	ppb	96
32) bis(2-Chloroethoxy)methane	5.66	93	371825	45.46	ppb	100

(#)=qualifier out of range (m)=manual integration

F35924.D MF5692.M

Thu Jun 12 15:59:02 2014

RT1

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5693\F35924.D Vial: 11
 Acq On : 12 Jun 2014 1:22 pm Operator: ashleyd
 Sample : icv5692-50 Inst : MSF
 Misc : op74333,ef5693,bn1 Multiplr: 1.00
 MS Integration Params: LSCINT.P
 Quant Time: Jun 12 15:41:58 2014 Quant Results File: MF5692.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)
 Title : Semi Volatile Extractables by GC/MS
 Last Update : Thu Jun 12 15:41:26 2014
 Response via : Initial Calibration
 DataAcq Meth : MF5692

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
36) 1,2,4-Trichlorobenzene	5.81	180	288838	42.62	ppb	99
38) Naphthalene	5.87	128	914008	41.05	ppb	100
42) Hexachlorobutadiene	5.96	225	150765	43.84	ppb	99
44) 2-Methylnaphthalene	6.39	141	521577	40.22	ppb	99
48) Hexachlorocyclopentadiene	6.52	237	131517	42.11	ppb	99
52) 2-Chloronaphthalene	6.80	162	557217	41.13	ppb	96
54) 2-Nitroaniline	6.89	65	161448	43.13	ppb	96
55) Dimethylphthalate	7.05	163	592485	42.37	ppb	99
56) Acenaphthylene	7.20	152	785818	36.35	ppb	99
57) 2,6-Dinitrotoluene	7.11	165	134520	43.20	ppb	91
58) 3-Nitroaniline	7.28	138	151499	39.96	ppb	98
59) Acenaphthene	7.38	153	584714	42.73	ppb	99
62) Dibenzofuran	7.57	168	784609	41.44	ppb	100
63) 2,4-Dinitrotoluene	7.53	165	172606	41.90	ppb	95
65) Diethylphthalate	7.82	149	583587	42.05	ppb	98
66) Fluorene	7.97	166	620182	41.19	ppb	99
67) 4-Chlorophenyl-phenylether	7.97	204	289362	43.25	ppb	99
68) 4-Nitroaniline	7.99	138	158447	41.47	ppb	97
71) n-Nitrosodiphenylamine	8.12	169	435041	45.72	ppb	99
72) 1,2-Diphenylhydrazine	8.17	77	632088	42.84	ppb	98
74) 4-Bromophenyl-phenylether	8.63	248	164109	45.97	ppb	98
75) Hexachlorobenzene	8.74	284	163626	41.34	ppb	100
77) Phenanthrene	9.36	178	848858	41.47	ppb	99
78) Anthracene	9.44	178	874612	43.08	ppb	100
79) Carbazole	9.72	167	824101	42.38	ppb	99
80) Di-n-butylphthalate	10.42	149	962152	46.12	ppb	100
81) Fluoranthene	11.56	202	897434	43.22	ppb	97
84) Pyrene	12.02	202	931945	42.43	ppb	99
86) Butylbenzylphthalate	13.60	149	412586	46.68	ppb	98
88) Benzo[a]anthracene	14.66	228	795327	40.76	ppb	100
90) Chrysene	14.74	228	791569	42.23	ppb	100
91) bis(2-Ethylhexyl)phthalate	15.00	149	562234	47.99	ppb	99
93) Di-n-octylphthalate	16.44	149	975156	43.13	ppb	99
94) Benzo[b]fluoranthene	16.98	252	837373	36.93	ppb	100
95) Benzo[k]fluoranthene	17.04	252	858544	38.48	ppb	99
96) Benzo[a]pyrene	17.62	252	776383	40.53	ppb	100
97) Indeno[1,2,3-cd]pyrene	19.69	276	717897	42.23	ppb	98
99) Dibenz[a,h]anthracene	19.74	278	740446	42.30	ppb	99
101) Benzo[g,h,i]perylene	20.13	276	769538	42.52	ppb	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 F35924.D MF5692.M Thu Jun 12 15:59:02 2014 RT1

Quantitation Report (QT Reviewed)

```

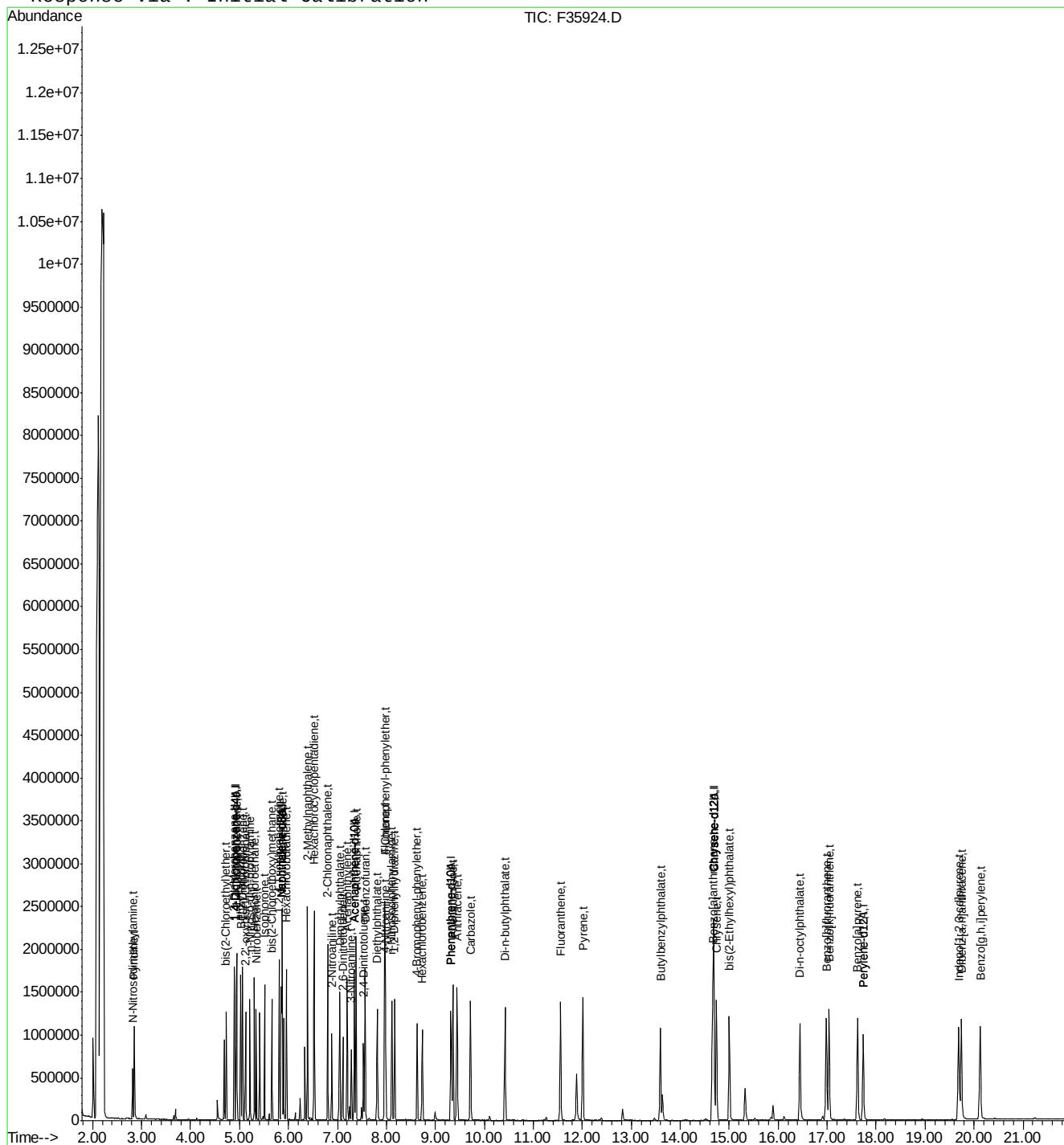
Data File   : C:\MSDCHEM\1\DATA\EF5693\F35924.D
Acq On      : 12 Jun 2014    1:22 pm
Sample      : icv5692-50
Misc        : op74333,ef5693,bn1
MS Integration Params: LSCINT.P
Quant Time  : Jun 12 15:58 2014

```

Vial: 11
Operator: ashleyd
Inst : MSF
Multiplr: 1.00

Quant Results File: MF5692.RES

Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 12 15:41:26 2014
Response via : Initial Calibration



F35924.D MF5692.M

Thu Jun 12 15:59:02 2014

RT1

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Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5693\F35925.D Vial: 12
 Acq On : 12 Jun 2014 1:51 pm Operator: ashleyd
 Sample : icv5692-50 Inst : MSF
 Misc : op74333,ef5693,bn2 Multiplr: 1.00
 MS Integration Params: LSCINT.P
 Quant Time: Jun 12 15:45:51 2014 Quant Results File: MF5692.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)
 Title : Semi Volatile Extractables by GC/MS
 Last Update : Thu Jun 12 15:41:26 2014
 Response via : Initial Calibration
 DataAcq Meth : MF5692

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.93	152	192210	40.00	ppb	0.00
24) Naphthalene-d8	5.85	136	767529	40.00	ppb	0.00
47) Acenaphthene-d10	7.34	164	397128	40.00	ppb	0.00
69) Phenanthrene-d10	9.32	188	616359	40.00	ppb	0.00
83) Chrysene-d12	14.68	240	575951	40.00	ppb	0.00
92) Perylene-d12	17.74	264	500747	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4A	4.93	152	192210	40.00	ppb	0.00
112) Naphthalene-d8A	5.85	136	767529	40.00	ppb	0.00
121) Acenaphthene-d10A	7.34	164	397128	40.00	ppb	0.00
132) Phenanthrene-d10A	9.32	188	616359	40.00	ppb	0.00
147) Chrysene-d12A	14.68	240	575951	40.00	ppb	0.00
155) Perylene-d12A	17.74	264	500747	40.00	ppb	0.00
159) 1,4-Dichlorobenzene-d4b	4.93	152	192210	40.00	ppb	0.00
161) Naphthalene-d8b	5.85	136	767529	40.00	ppb	0.00
163) Acenaphthene-d10b	7.34	164	397128	40.00	ppb	0.00
165) Phenanthrene-d10b	9.32	188	616359	40.00	ppb	0.00
167) Chrysene-d12b	14.68	240	575951	40.00	ppb	0.00
169) 1,4-Dichlorobenzene-d4c	4.93	152	192210	40.00	ppb	0.00
171) Naphthalene-d8c	5.85	136	767529	40.00	ppb	0.00
176) Chrysene-d12c	14.68	240	575951	40.00	ppb	0.00
178) Naphthalene-d8a	5.85	136	767529	40.00	ppb	0.04

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.00	99	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.00	82	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.00	172	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.00	244	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	

Target Compounds

						Qvalue
2) 1,4-Dioxane	2.54	88	139410	40.62	ppb	98
6) Indene	5.12	116	557922	44.52	ppb	99
7) Cumene	4.35	105	719058	41.64	ppb	98
13) Decane	4.81	43	291234	37.51	ppb	97
18) Acetophenone	5.21	105	419976	42.59	ppb	95
27) Quinoline	6.11	129	610790	37.64	ppb	99
40) 2,3-Dichloroaniline	6.62	161	273805	35.08	ppb	97
41) Caprolactam	6.14	55	128340	35.49	ppb	98
45) 1-Methylnaphthalene	6.47	142	577235	37.48	ppb	99
46) Dimethylnaphthalene	6.92	156	522590	38.12	ppb	99
53) Biphenyl	6.77	154	698140	41.17	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 F35925.D MF5692.M Thu Jun 12 16:00:04 2014 RT1

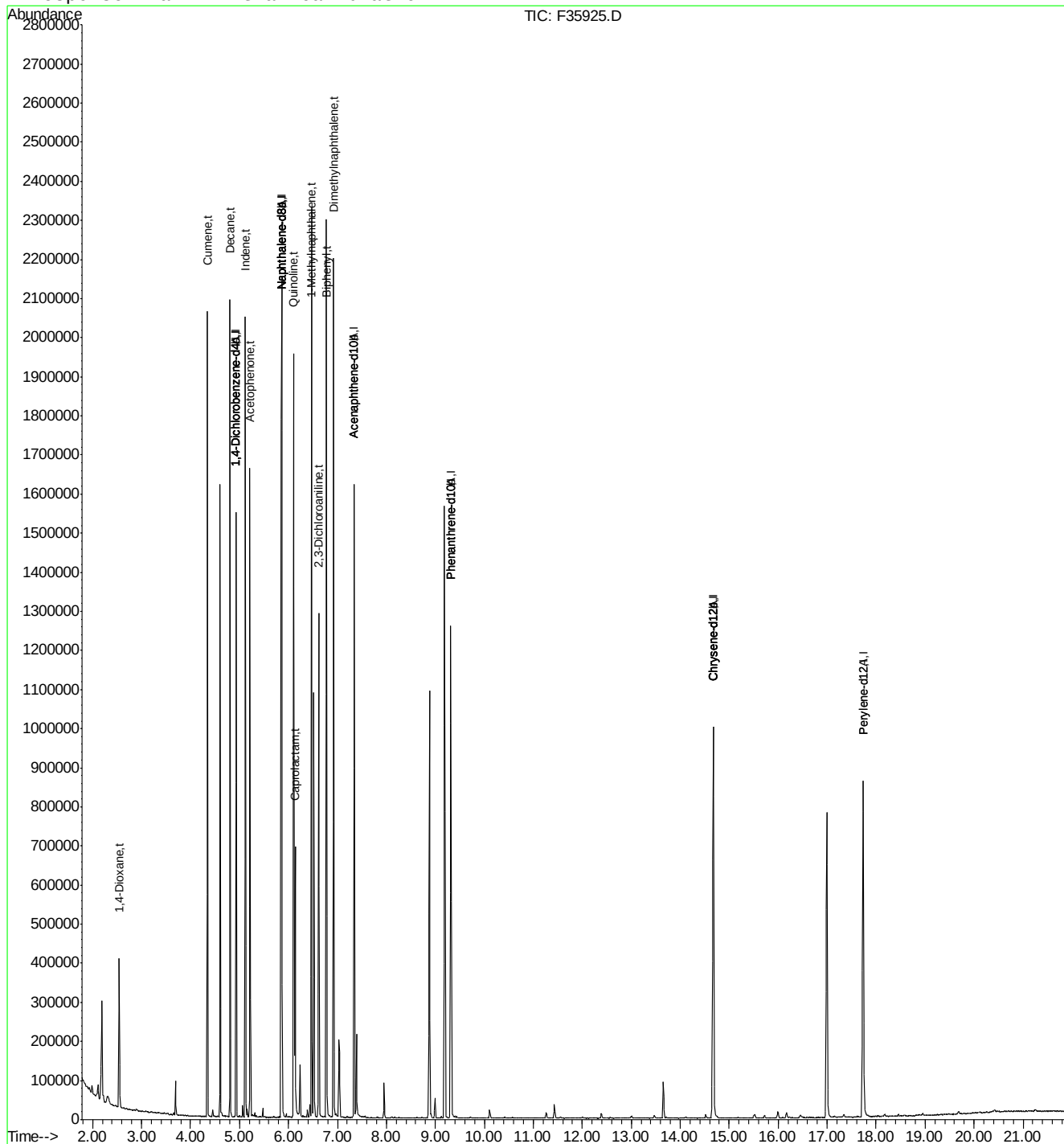
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5693\F35925.D
Acq On : 12 Jun 2014 1:51 pm
Sample : icv5692-50
Misc : op74333,ef5693,bn2
MS Integration Params: LSCINT.P
Quant Time: Jun 12 15:59 2014

Vial: 12
Operator: ashleyd
Inst : MSF
Multiplr: 1.00

Quant Results File: MF5692.RES

Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 12 15:41:26 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5693\F35925A.D Vial: 12
 Acq On : 12 Jun 2014 1:51 pm Operator: ashleyd
 Sample : icv5693-50 Inst : MSF
 Misc : op74333,ef5693,bn2 Multiplr: 1.00
 MS Integration Params: LSCINT.P
 Quant Time: Jun 12 15:45:51 2014 Quant Results File: MF5692.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)
 Title : Semi Volatile Extractables by GC/MS
 Last Update : Thu Jun 12 15:41:26 2014
 Response via : Initial Calibration
 DataAcq Meth : MF5692

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.93	152	192210	40.00	ppb	0.00
24) Naphthalene-d8	5.85	136	767529	40.00	ppb	0.00
47) Acenaphthene-d10	7.34	164	397128	40.00	ppb	0.00
69) Phenanthrene-d10	9.32	188	616359	40.00	ppb	0.00
83) Chrysene-d12	14.68	240	575951	40.00	ppb	0.00
92) Perylene-d12	17.74	264	500747	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4A	4.93	152	192210	40.00	ppb	0.00
112) Naphthalene-d8A	5.85	136	767529	40.00	ppb	0.00
121) Acenaphthene-d10A	7.34	164	397128	40.00	ppb	0.00
132) Phenanthrene-d10A	9.32	188	616359	40.00	ppb	0.00
147) Chrysene-d12A	14.68	240	575951	40.00	ppb	0.00
155) Perylene-d12A	17.74	264	500747	40.00	ppb	0.00
159) 1,4-Dichlorobenzene-d4b	4.93	152	192210	40.00	ppb	0.00
161) Naphthalene-d8b	5.85	136	767529	40.00	ppb	0.00
163) Acenaphthene-d10b	7.34	164	397128	40.00	ppb	0.00
165) Phenanthrene-d10b	9.32	188	616359	40.00	ppb	0.00
167) Chrysene-d12b	14.68	240	575951	40.00	ppb	0.00
169) 1,4-Dichlorobenzene-d4c	4.93	152	192210	40.00	ppb	0.00
171) Naphthalene-d8c	5.85	136	767529	40.00	ppb	0.00
176) Chrysene-d12c	14.68	240	575951	40.00	ppb	0.00
178) Naphthalene-d8a	5.85	136	767529	40.00	ppb	0.04

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.00	99	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.00	82	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.00	172	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.00	244	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	

Target Compounds

						Qvalue
160) Benzaldehyde	4.61	105	264860	56.09	ppb	96
166) Atrazine	8.88	200	157079	52.19	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 F35925A.D MF5692.M Thu Jun 12 16:00:36 2014 RT1

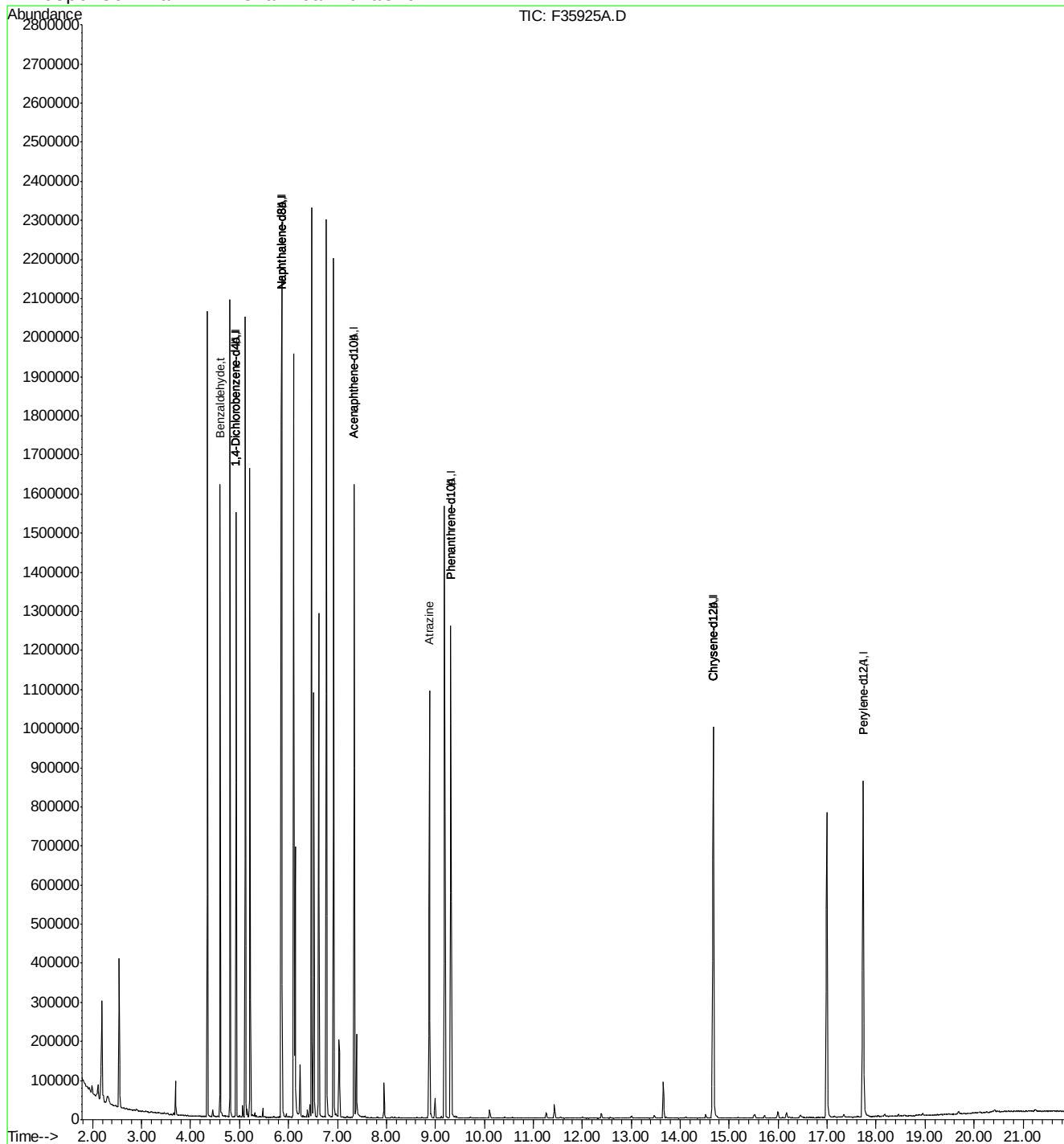
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5693\F35925A.D
Acq On : 12 Jun 2014 1:51 pm
Sample : icv5693-50
Misc : op74333,ef5693,bn2
MS Integration Params: LSCINT.P
Quant Time: Jun 12 16:00 2014

Vial: 12
Operator: ashleyd
Inst : MSF
Multiplr: 1.00

Quant Results File: MF5692.RES

Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 12 15:41:26 2014
Response via : Initial Calibration



F35925A.D MF5692.M

Thu Jun 12 16:00:37 2014

RT1

Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5693\F35926.D Vial: 13
 Acq On : 12 Jun 2014 2:20 pm Operator: ashleyd
 Sample : icv5692-50 Inst : MSF
 Misc : op74333,ef5693,surr Multiplr: 1.00
 MS Integration Params: LSCINT.P
 Quant Time: Jun 12 15:48:13 2014 Quant Results File: MF5692.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)
 Title : Semi Volatile Extractables by GC/MS
 Last Update : Thu Jun 12 15:41:26 2014
 Response via : Initial Calibration
 DataAcq Meth : MF5692

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.93	152	235832	40.00	ppb	0.00
24) Naphthalene-d8	5.85	136	809165	40.00	ppb	0.00
47) Acenaphthene-d10	7.34	164	463402	40.00	ppb	0.00
69) Phenanthrene-d10	9.32	188	697564	40.00	ppb	0.00
83) Chrysene-d12	14.68	240	641557	40.00	ppb	0.00
92) Perylene-d12	17.74	264	579476	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4A	4.93	152	235832	40.00	ppb	0.00
112) Naphthalene-d8A	5.85	136	809165	40.00	ppb	0.00
121) Acenaphthene-d10A	7.34	164	463402	40.00	ppb	0.00
132) Phenanthrene-d10A	9.32	188	697564	40.00	ppb	0.00
147) Chrysene-d12A	14.68	240	641557	40.00	ppb	0.00
155) Perylene-d12A	17.74	264	579476	40.00	ppb	0.00
159) 1,4-Dichlorobenzene-d4b	4.93	152	235832	40.00	ppb	0.00
161) Naphthalene-d8b	5.85	136	809165	40.00	ppb	0.00
163) Acenaphthene-d10b	7.34	164	463402	40.00	ppb	0.00
165) Phenanthrene-d10b	9.32	188	697564	40.00	ppb	0.00
167) Chrysene-d12b	14.68	240	641557	40.00	ppb	0.00
169) 1,4-Dichlorobenzene-d4c	4.93	152	235832	40.00	ppb	0.00
171) Naphthalene-d8c	5.85	136	809165	40.00	ppb	0.00
176) Chrysene-d12c	14.68	240	641557	40.00	ppb	0.00
178) Naphthalene-d8a	5.85	136	809165	40.00	ppb	0.04

System Monitoring Compounds

5) 2-Fluorophenol	3.95	112	339162	39.86	ppb	0.00
Spiked Amount 50.000			Recovery =	79.72%		
8) Phenol-d5	4.65	99	409706	38.45	ppb	0.00
Spiked Amount 50.000			Recovery =	76.90%		
25) Nitrobenzene-d5	5.33	82	343111	40.19	ppb	0.00
Spiked Amount 50.000			Recovery =	80.38%		
51) 2-Fluorobiphenyl	6.68	172	672982	41.69	ppb	0.00
Spiked Amount 50.000			Recovery =	83.38%		
73) 2,4,6-Tribromophenol	8.28	330	70096	44.75	ppb	0.00
Spiked Amount 50.000			Recovery =	89.50%		
85) Terphenyl-d14	12.43	244	636071	43.61	ppb	0.00
Spiked Amount 50.000			Recovery =	87.22%		

Target Compounds

Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 F35926.D MF5692.M Thu Jun 12 16:00:44 2014 RT1

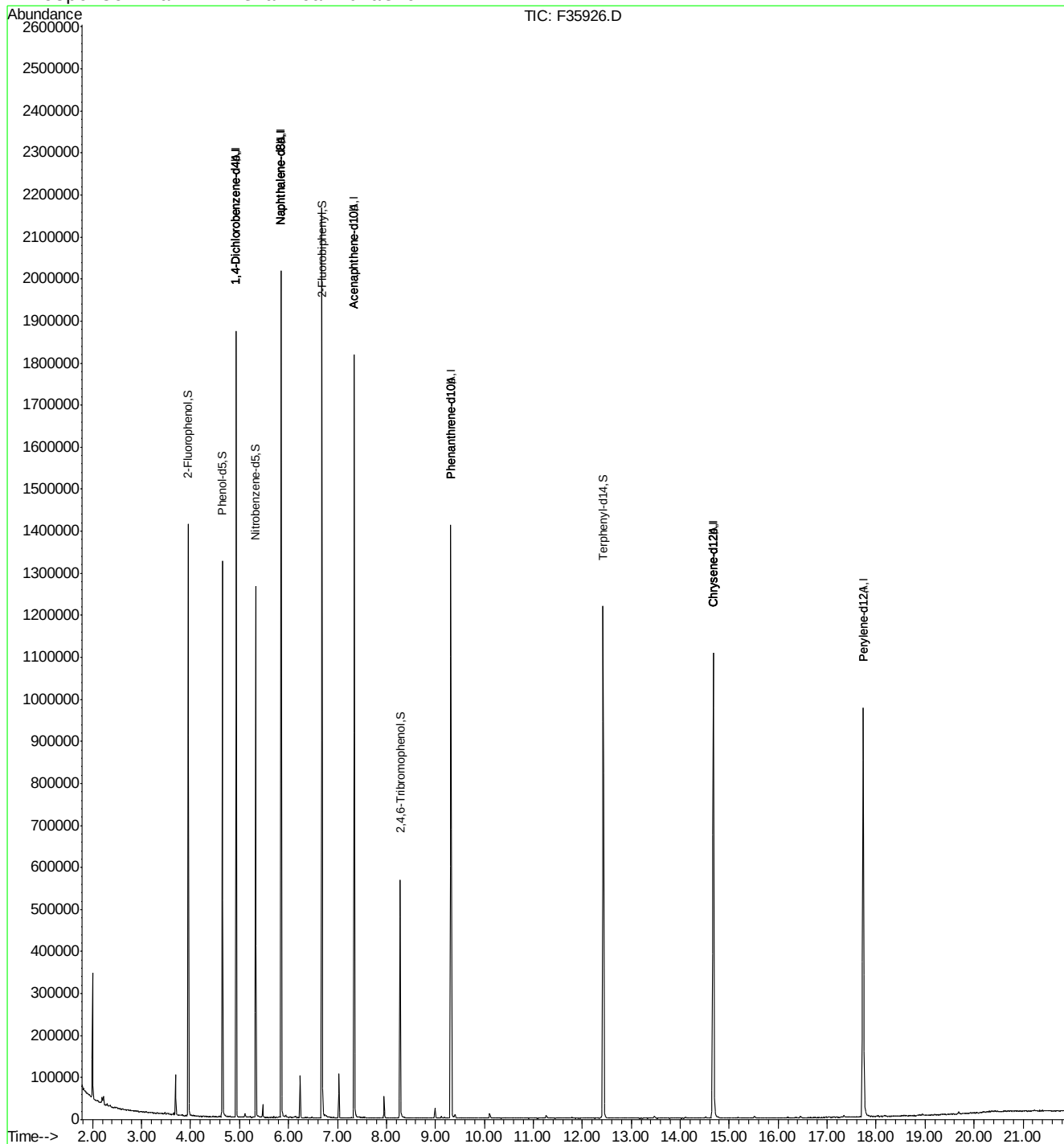
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5693\F35926.D
Acq On : 12 Jun 2014 2:20 pm
Sample : icv5692-50
Misc : op74333,ef5693,surr
MS Integration Params: LSCINT.P
Quant Time: Jun 12 15:48 2014

Vial: 13
Operator: ashleyd
Inst : MSF
Multiplr: 1.00

Quant Results File: MF5692.RES

Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 12 15:41:26 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5693\F35927.D Vial: 14
 Acq On : 12 Jun 2014 2:49 pm Operator: ashleyd
 Sample : icv5692-50 Inst : MSF
 Misc : op74333,ef5693,aniline Multiplr: 1.00
 MS Integration Params: LSCINT.P
 Quant Time: Jun 12 15:49:04 2014 Quant Results File: MF5692.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)
 Title : Semi Volatile Extractables by GC/MS
 Last Update : Thu Jun 12 15:41:26 2014
 Response via : Initial Calibration
 DataAcq Meth : MF5692

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.93	152	289719	40.00	ppb	0.00
24) Naphthalene-d8	5.86	136	1029544	40.00	ppb	0.00
47) Acenaphthene-d10	7.35	164	634060	40.00	ppb	0.00
69) Phenanthrene-d10	9.32	188	1020142	40.00	ppb	0.00
83) Chrysene-d12	14.68	240	1031978	40.00	ppb	0.00
92) Perylene-d12	17.74	264	886681	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4A	4.93	152	289719	40.00	ppb	0.00
112) Naphthalene-d8A	5.86	136	1029544	40.00	ppb	0.00
121) Acenaphthene-d10A	7.35	164	634060	40.00	ppb	0.00
132) Phenanthrene-d10A	9.32	188	1020142	40.00	ppb	0.00
147) Chrysene-d12A	14.68	240	1031978	40.00	ppb	0.00
155) Perylene-d12A	17.74	264	886681	40.00	ppb	0.00
159) 1,4-Dichlorobenzene-d4b	4.93	152	289719	40.00	ppb	0.00
161) Naphthalene-d8b	5.86	136	1029544	40.00	ppb	0.00
163) Acenaphthene-d10b	7.35	164	634060	40.00	ppb	0.00
165) Phenanthrene-d10b	9.32	188	1020142	40.00	ppb	0.00
167) Chrysene-d12b	14.68	240	1031978	40.00	ppb	0.00
169) 1,4-Dichlorobenzene-d4c	4.93	152	289719	40.00	ppb	0.00
171) Naphthalene-d8c	5.86	136	1029544	40.00	ppb	0.00
176) Chrysene-d12c	14.68	240	1031978	40.00	ppb	0.00
178) Naphthalene-d8a	5.86	136	1029544	40.00	ppb	0.05

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.00	99	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.00	82	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.00	172	0d	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.00	244	0d	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	

Target Compounds

						Qvalue
10) Aniline	4.69	93	796170	45.26	ppb	99
39) 4-Chloroaniline	5.90	127	620684	46.92	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 F35927.D MF5692.M Thu Jun 12 16:00:53 2014 RT1

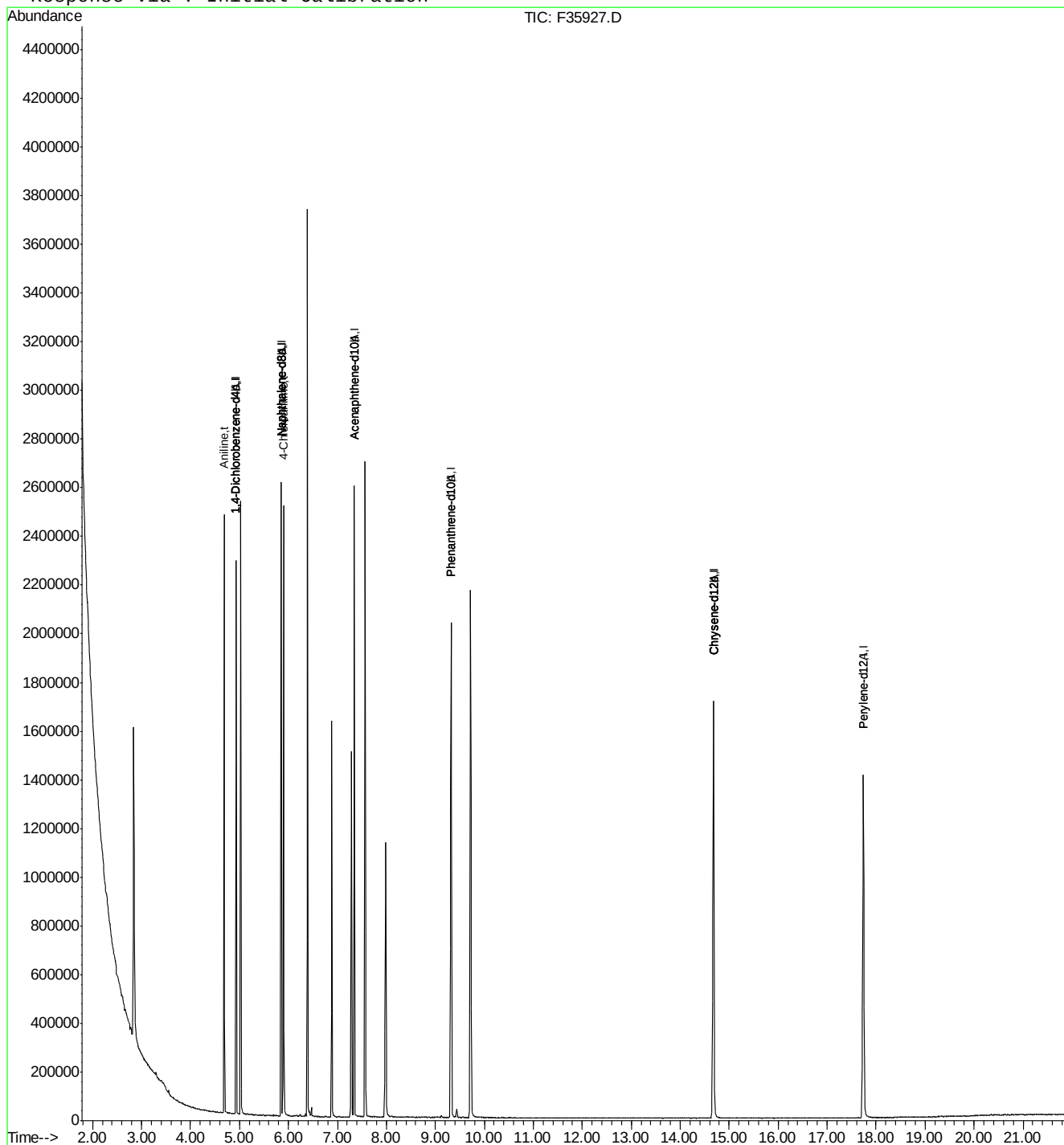
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5693\F35927.D
Acq On : 12 Jun 2014 2:49 pm
Sample : icv5692-50
Misc : op74333,ef5693,aniline
MS Integration Params: LSCINT.P
Quant Time: Jun 12 15:49 2014

Vial: 14
Operator: ashleyd
Inst : MSF
Multiplr: 1.00

Quant Results File: MF5692.RES

Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 12 15:41:26 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5693\F35928.D Vial: 15
 Acq On : 12 Jun 2014 3:18 pm Operator: ashleyd
 Sample : icv5692-50 Inst : MSF
 Misc : op74333,ef5693,benzedine Multiplr: 1.00
 MS Integration Params: LSCINT.P
 Quant Time: Jun 12 15:49:58 2014 Quant Results File: MF5692.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)
 Title : Semi Volatile Extractables by GC/MS
 Last Update : Thu Jun 12 15:41:26 2014
 Response via : Initial Calibration
 DataAcq Meth : MF5692

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.93	152	290141	40.00	ppb	0.00
24) Naphthalene-d8	5.85	136	1020490	40.00	ppb	0.00
47) Acenaphthene-d10	7.35	164	615968	40.00	ppb	0.00
69) Phenanthrene-d10	9.32	188	984273	40.00	ppb	0.00
83) Chrysene-d12	14.68	240	964145	40.00	ppb	0.00
92) Perylene-d12	17.74	264	872816	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4A	4.93	152	290141	40.00	ppb	0.00
112) Naphthalene-d8A	5.85	136	1020490	40.00	ppb	0.00
121) Acenaphthene-d10A	7.35	164	615968	40.00	ppb	0.00
132) Phenanthrene-d10A	9.32	188	984273	40.00	ppb	0.00
147) Chrysene-d12A	14.68	240	964145	40.00	ppb	0.00
155) Perylene-d12A	17.74	264	872816	40.00	ppb	0.00
159) 1,4-Dichlorobenzene-d4b	4.93	152	290141	40.00	ppb	0.00
161) Naphthalene-d8b	5.85	136	1020490	40.00	ppb	0.00
163) Acenaphthene-d10b	7.35	164	615968	40.00	ppb	0.00
165) Phenanthrene-d10b	9.32	188	984273	40.00	ppb	0.00
167) Chrysene-d12b	14.68	240	964145	40.00	ppb	0.00
169) 1,4-Dichlorobenzene-d4c	4.93	152	290141	40.00	ppb	0.00
171) Naphthalene-d8c	5.85	136	1020490	40.00	ppb	0.00
176) Chrysene-d12c	14.68	240	964145	40.00	ppb	0.00
178) Naphthalene-d8a	5.85	136	1020490	40.00	ppb	0.04

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.00	99	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.00	82	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.00	172	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.00	244	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	

Target Compounds

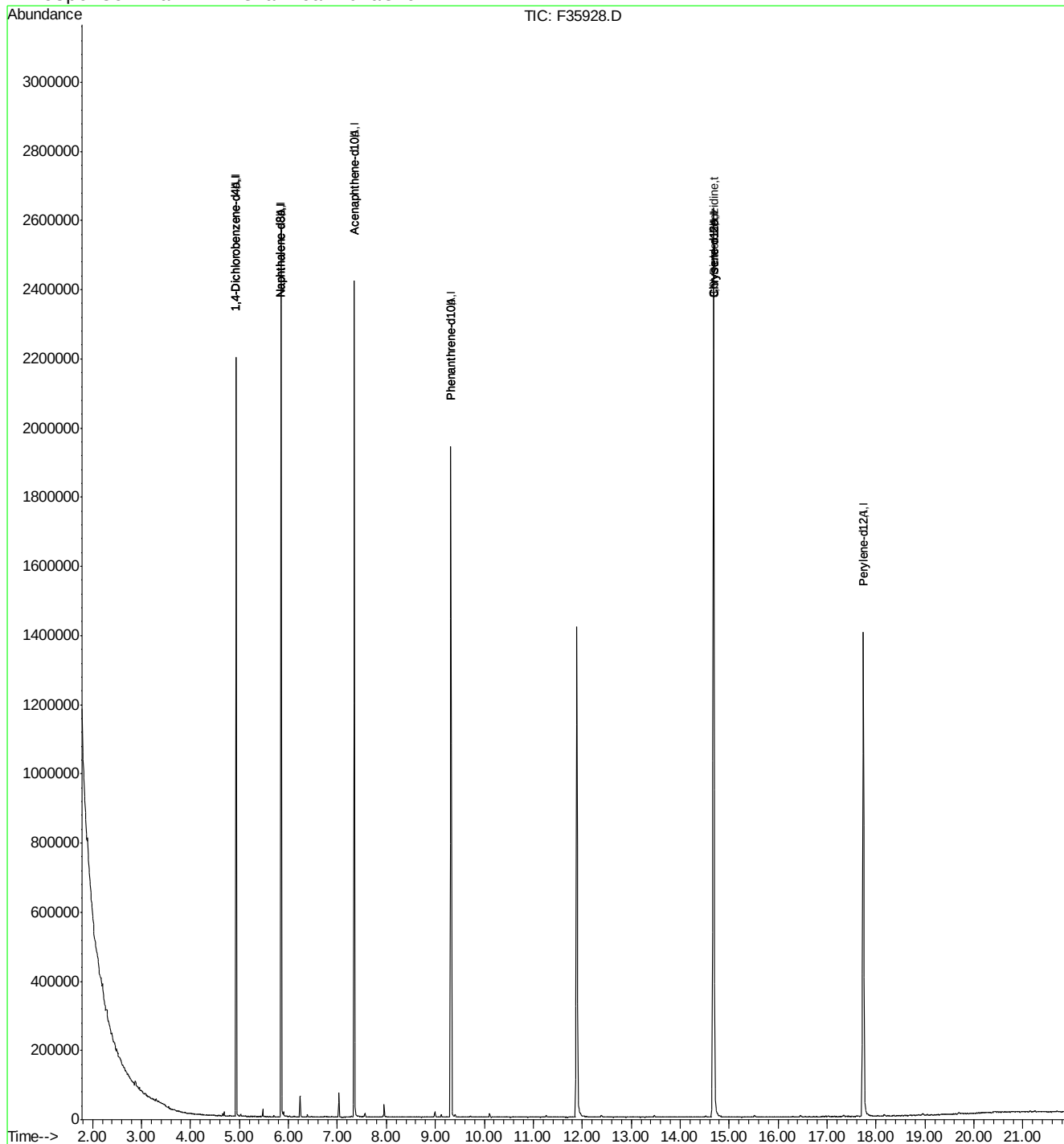
89) 3,3'-Dichlorobenzidine	14.69	252	438572	44.75	ppb	Qvalue 99
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(#) = qualifier out of range (m) = manual integration (+) = signals summed
 F35928.D MF5692.M Thu Jun 12 16:02:27 2014 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5693\F35928.D Vial: 15
Acq On : 12 Jun 2014 3:18 pm Operator: ashleyd
Sample : icv5692-50 Inst : MSF
Misc : op74333,ef5693,benzedine Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 16:02 2014 Quant Results File: MF5692.RES

Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 12 15:41:26 2014
Response via : Initial Calibration



F35928.D MF5692.M

Thu Jun 12 16:02:27 2014

RT1

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Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5693\F35928A.D Vial: 15
 Acq On : 12 Jun 2014 3:18 pm Operator: ashleyd
 Sample : icv5693-50 Inst : MSF
 Misc : op74333,ef5693,benzedine Multiplr: 1.00
 MS Integration Params: LSCINT.P
 Quant Time: Jun 12 15:49:58 2014 Quant Results File: MF5692.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)
 Title : Semi Volatile Extractables by GC/MS
 Last Update : Thu Jun 12 15:41:26 2014
 Response via : Initial Calibration
 DataAcq Meth : MF5692

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.93	152	290141	40.00	ppb	0.00
24) Naphthalene-d8	5.85	136	1020490	40.00	ppb	0.00
47) Acenaphthene-d10	7.35	164	615968	40.00	ppb	0.00
69) Phenanthrene-d10	9.32	188	984273	40.00	ppb	0.00
83) Chrysene-d12	14.68	240	964145	40.00	ppb	0.00
92) Perylene-d12	17.74	264	872816	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4A	4.93	152	290141	40.00	ppb	0.00
112) Naphthalene-d8A	5.85	136	1020490	40.00	ppb	0.00
121) Acenaphthene-d10A	7.35	164	615968	40.00	ppb	0.00
132) Phenanthrene-d10A	9.32	188	984273	40.00	ppb	0.00
147) Chrysene-d12A	14.68	240	964145	40.00	ppb	0.00
155) Perylene-d12A	17.74	264	872816	40.00	ppb	0.00
159) 1,4-Dichlorobenzene-d4b	4.93	152	290141	40.00	ppb	0.00
161) Naphthalene-d8b	5.85	136	1020490	40.00	ppb	0.00
163) Acenaphthene-d10b	7.35	164	615968	40.00	ppb	0.00
165) Phenanthrene-d10b	9.32	188	984273	40.00	ppb	0.00
167) Chrysene-d12b	14.68	240	964145	40.00	ppb	0.00
169) 1,4-Dichlorobenzene-d4c	4.93	152	290141	40.00	ppb	0.00
171) Naphthalene-d8c	5.85	136	1020490	40.00	ppb	0.00
176) Chrysene-d12c	14.68	240	964145	40.00	ppb	0.00
178) Naphthalene-d8a	5.85	136	1020490	40.00	ppb	0.04

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.00	99	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.00	82	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.00	172	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.00	244	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	

Target Compounds

						Qvalue
168) Benzidine	11.89	184	884579	78.98	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 F35928A.D MF5692.M Thu Jun 12 16:02:44 2014 RT1

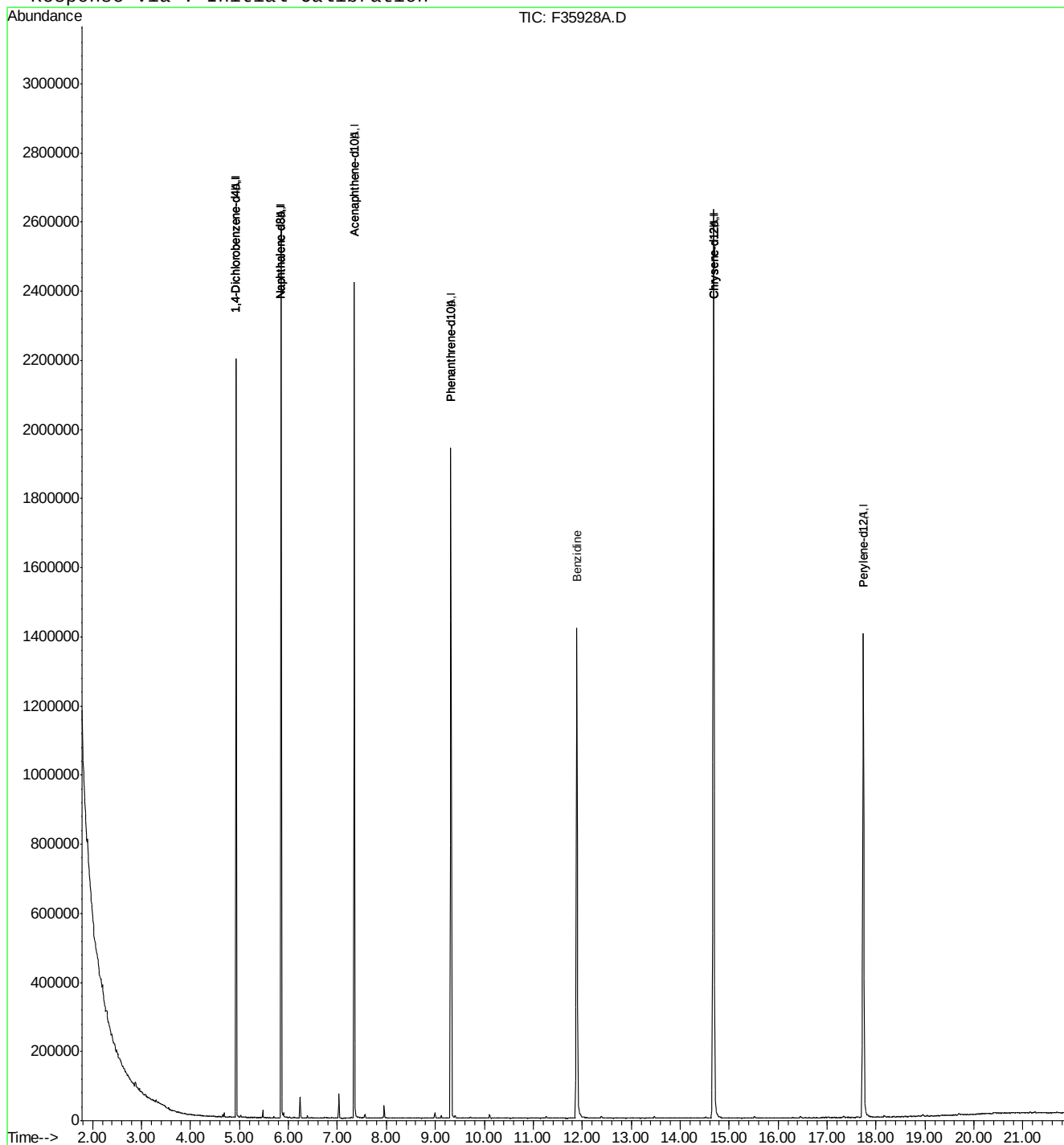
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5693\F35928A.D
Acq On : 12 Jun 2014 3:18 pm
Sample : icv5693-50
Misc : op74333,ef5693,benzedine
MS Integration Params: LSCINT.P
Quant Time: Jun 12 16:02 2014

Vial: 15
Operator: ashleyd
Inst : MSF
Multiplr: 1.00

Quant Results File: MF5692.RES

Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 12 15:41:26 2014
Response via : Initial Calibration



F35928A.D MF5692.M

Thu Jun 12 16:02:44 2014

RT1

Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5695\F35957.D

Vial: 2

Acq On : 13 Jun 2014 8:24 am

Operator: kristis

Sample : icv5692-50

Inst : MSF

Misc : op74333,ef5695,1000,,,1,1

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Jun 13 08:46:53 2014

Quant Results File: MF5692.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Thu Jun 12 15:41:26 2014

Response via : Initial Calibration

DataAcq Meth : MF5692

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.93	152	166423	40.00	ppb	0.00
24) Naphthalene-d8	5.85	136	600391	40.00	ppb	-0.01
47) Acenaphthene-d10	7.34	164	351870	40.00	ppb	-0.01
69) Phenanthrene-d10	9.31	188	561782	40.00	ppb	-0.02
83) Chrysene-d12	14.66	240	553683	40.00	ppb	-0.02
92) Perylene-d12	17.72	264	510267	40.00	ppb	-0.02
102) 1,4-Dichlorobenzene-d4A	4.93	152	166423	40.00	ppb	0.00
112) Naphthalene-d8A	5.85	136	600391	40.00	ppb	-0.01
121) Acenaphthene-d10A	7.34	164	351870	40.00	ppb	-0.01
132) Phenanthrene-d10A	9.31	188	561782	40.00	ppb	-0.02
147) Chrysene-d12A	14.66	240	553683	40.00	ppb	-0.02
155) Perylene-d12A	17.72	264	510267	40.00	ppb	-0.02
159) 1,4-Dichlorobenzene-d4b	4.93	152	166423	40.00	ppb	0.00
161) Naphthalene-d8b	5.85	136	600391	40.00	ppb	-0.01
163) Acenaphthene-d10b	7.34	164	351870	40.00	ppb	-0.01
165) Phenanthrene-d10b	9.31	188	561782	40.00	ppb	-0.02
167) Chrysene-d12b	14.66	240	553683	40.00	ppb	-0.02
169) 1,4-Dichlorobenzene-d4c	4.93	152	166423	40.00	ppb	0.00
171) Naphthalene-d8c	5.85	136	600391	40.00	ppb	-0.01
176) Chrysene-d12c	14.66	240	553683	40.00	ppb	-0.02
178) Naphthalene-d8a	5.85	136	600391	40.00	ppb	0.04

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
8) Phenol-d5	0.00	99	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
25) Nitrobenzene-d5	0.00	82	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.00	172	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
85) Terphenyl-d14	0.00	244	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	

Target Compounds

						Qvalue
9) Phenol	4.65	94	379748	46.02	ppb	85
12) 2-Chlorophenol	4.77	128	312901	47.93	ppb	98
19) 2-Methylphenol	5.10	108	282413	47.81	ppb	99
21) 3&4-Methylphenol	5.20	108	292422	48.19	ppb	98
29) 2-Nitrophenol	5.57	139	163835	53.09	ppb	90
30) 2,4-Dimethylphenol	5.59	107	274343	46.81	ppb	99
31) Benzoic acid	5.66	105	202580	52.41	ppb	97
33) 2,4-Dichlorophenol	5.74	162	241166	50.62	ppb	97
34) 2,6-Dichlorophenol	5.90	162	235491	52.54	ppb	99
43) 4-Chloro-3-methylphenol	6.24	107	242504	48.75	ppb	96
49) 2,4,6-Trichlorophenol	6.61	196	168806	51.18	ppb	99
50) 2,4,5-Trichlorophenol	6.64	196	172247	50.58	ppb	98
60) 2,4-Dinitrophenol	7.38	184	73319	54.05	ppb	# 46

(#) = qualifier out of range (m) = manual integration

F35957.D MF5692.M

Fri Jun 13 13:29:54 2014

RT1

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5695\F35957.D Vial: 2
Acq On : 13 Jun 2014 8:24 am Operator: kristis
Sample : icv5692-50 Inst : MSF
Misc : op74333,ef5695,1000,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 13 08:46:53 2014 Quant Results File: MF5692.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 12 15:41:26 2014
Response via : Initial Calibration
DataAcq Meth : MF5692

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
61) 4-Nitrophenol	7.44	109	77318	53.01	ppb	98
64) 2,3,4,6-Tetrachlorophenol	7.69	232	138797	52.97	ppb	99
70) 4,6-Dinitro-2-methylphenol	8.01	198	105946	51.65	ppb	99
76) Pentachlorophenol	9.01	266	110849	60.98	ppb	98

9.6.83

9

(#) = qualifier out of range (m) = manual integration (+) = signals summed
F35957.D MF5692.M Fri Jun 13 13:29:54 2014 RT1

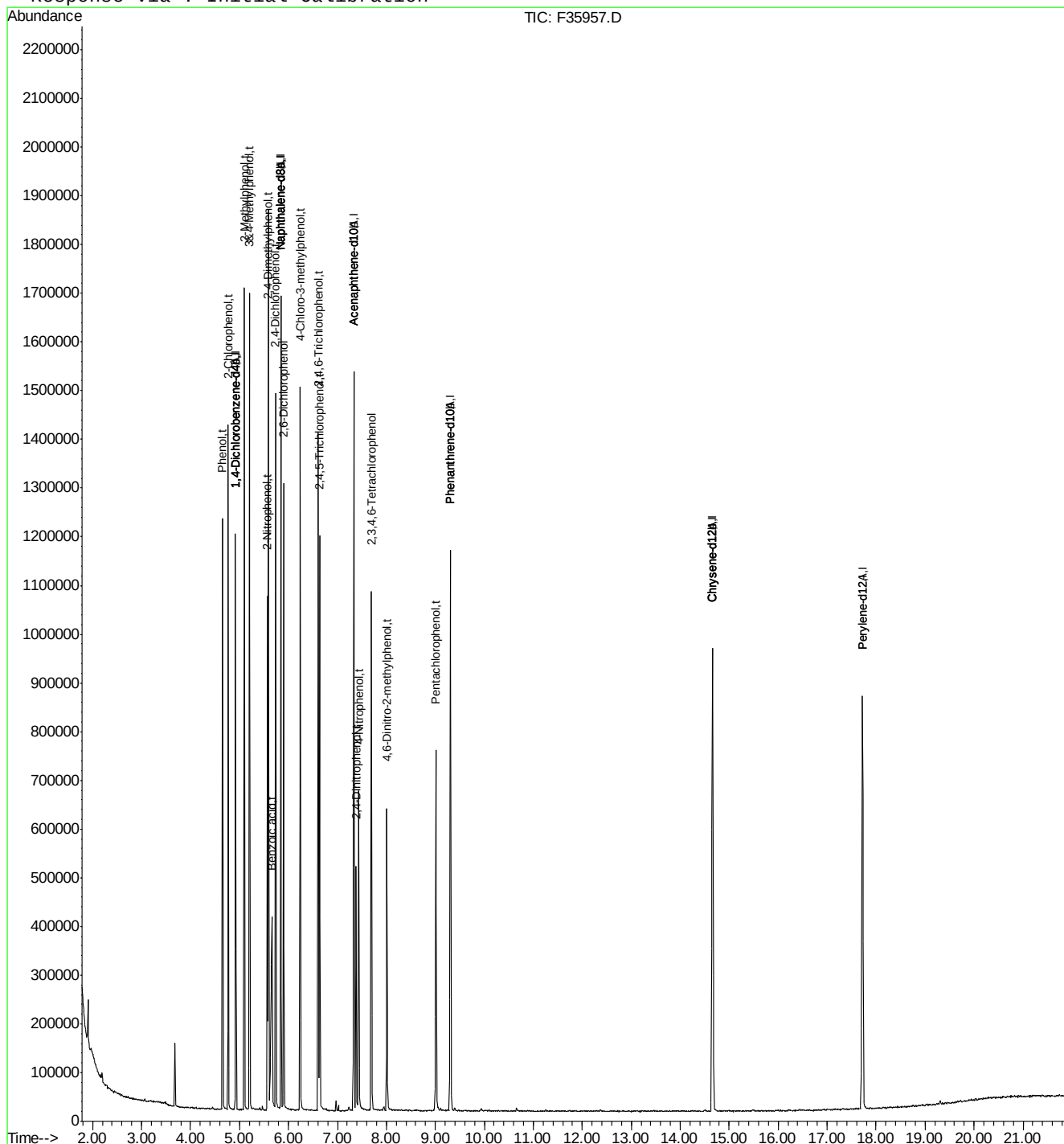
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5695\F35957.D
Acq On : 13 Jun 2014 8:24 am
Sample : icv5692-50
Misc : op74333,ef5695,1000,,,1,1
MS Integration Params: LSCINT.P
Quant Time: Jun 13 13:29 2014

Vial: 2
Operator: kristis
Inst : MSF
Multiplr: 1.00

Quant Results File: MF5692.RES

Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 12 15:41:26 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5695\F35958.D Vial: 3
 Acq On : 13 Jun 2014 8:54 am Operator: kristis
 Sample : icv5693-50 Inst : MSF
 Misc : op74333,ef5695,1000,,,1,1 Multiplr: 1.00
 MS Integration Params: LSCINT.P
 Quant Time: Jun 13 13:30:02 2014 Quant Results File: MF5692.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)
 Title : Semi Volatile Extractables by GC/MS
 Last Update : Thu Jun 12 15:41:26 2014
 Response via : Initial Calibration
 DataAcq Meth : MF5692

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.93	152	210148	40.00	ppb	0.00
24) Naphthalene-d8	5.85	136	764194	40.00	ppb	-0.01
47) Acenaphthene-d10	7.34	164	458015	40.00	ppb	-0.01
69) Phenanthrene-d10	9.31	188	764212	40.00	ppb	-0.02
83) Chrysene-d12	14.67	240	827423	40.00	ppb	-0.02
92) Perylene-d12	17.73	264	758344	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4b	4.93	152	210148	40.00	ppb	0.00
104) Naphthalene-d8b	5.85	136	764194	40.00	ppb	-0.01
106) Acenaphthene-d10b	7.34	164	458015	40.00	ppb	-0.01
108) Phenanthrene-d10b	9.31	188	764212	40.00	ppb	-0.02
110) Chrysene-d12b	14.67	240	827423	40.00	ppb	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	0.00	112	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.00	99	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.00	82	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.00	172	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.00	244	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						
105) Hydroquinone	6.13	110	426060	64.53	ppb	Qvalue 99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 F35958.D MF5692.M Fri Jun 13 13:30:23 2014 RT1

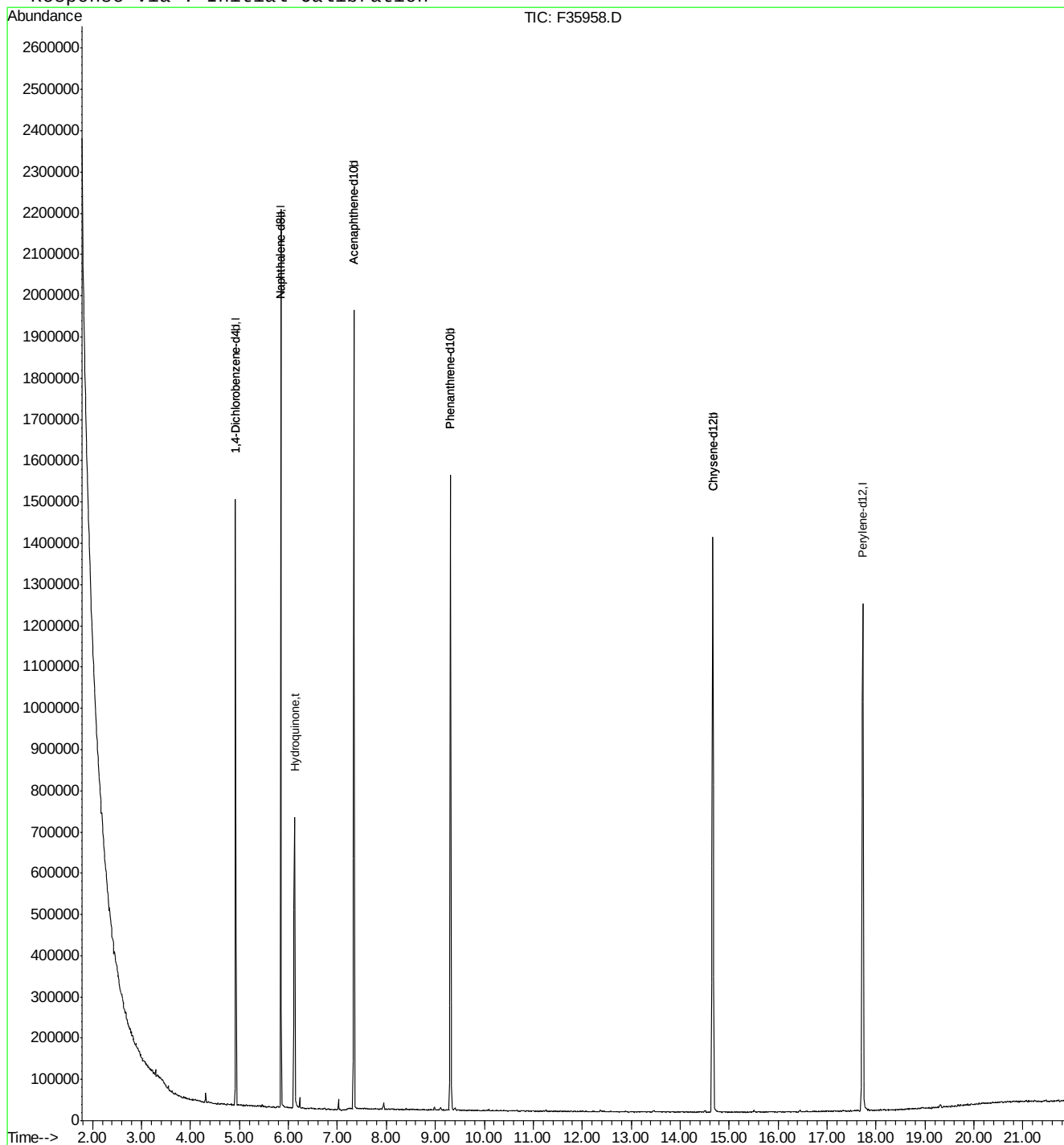
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5695\F35958.D
Acq On : 13 Jun 2014 8:54 am
Sample : icv5693-50
Misc : op74333,ef5695,1000,,1,1
MS Integration Params: LSCINT.P
Quant Time: Jun 13 13:30 2014

Vial: 3
Operator: kristis
Inst : MSF
Multiplr: 1.00

Quant Results File: MF5692.RES

Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 12 15:41:26 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5702\F36118.D

Vial: 2

Acq On : 18 Jun 2014 8:25 pm

Operator: ashleyd

Sample : ic5702-100

Inst : MSF

Misc : op74333,ef5702

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Jun 19 09:29:59 2014

Quant Results File: MFAP5692.RES

Quant Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Thu Jun 19 09:04:43 2014

Response via : Initial Calibration

DataAcq Meth : MF5692

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.87	152	131260	40.00	ppb	0.00
24) Naphthalene-d8	5.79	136	467477	40.00	ppb	0.00
47) Acenaphthene-d10	7.26	164	274409	40.00	ppb	0.00
69) Phenanthrene-d10	9.22	188	428680	40.00	ppb	0.00
83) Chrysene-d12	14.56	240	402759	40.00	ppb	0.00
92) Perylene-d12	17.63	264	349481	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4A	4.87	152	131260	40.00	ppb	0.00
112) Naphthalene-d8A	5.79	136	467477	40.00	ppb	0.00
121) Acenaphthene-d10A	7.26	164	274409	40.00	ppb	0.00
132) Phenanthrene-d10A	9.22	188	428680	40.00	ppb	0.00
147) Chrysene-d12A	14.56	240	402759	40.00	ppb	0.00
155) Perylene-d12A	17.63	264	349481	40.00	ppb	0.00
159) 1,4-Dichlorobenzene-d4b	4.87	152	131260	40.00	ppb	0.00
161) Naphthalene-d8b	5.79	136	467477	40.00	ppb	0.00
163) Acenaphthene-d10b	7.26	164	274409	40.00	ppb	0.00
165) Phenanthrene-d10b	9.22	188	428680	40.00	ppb	0.00
167) Chrysene-d12b	14.56	240	402759	40.00	ppb	0.00
169) 1,4-Dichlorobenzene-d4c	4.87	152	131260	40.00	ppb	0.00
171) Naphthalene-d8c	5.79	136	467477	40.00	ppb	0.00
176) Chrysene-d12c	14.56	240	402759	40.00	ppb	0.00
178) Naphthalene-d8a	5.79	136	467477	40.00	ppb	-0.02

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
8) Phenol-d5	0.00	99	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
25) Nitrobenzene-d5	0.00	82	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.00	172	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
85) Terphenyl-d14	0.00	244	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	

Target Compounds

						Qvalue
103) 2-Picoline	3.40	93	478782	100.00	ppb	100
104) Pentachloroethane	4.66	167	173007	100.00	ppb	100
105) Methyl methanesulfonate	3.75	80	225021	100.00	ppb	100
106) N-Nitrosodiethylamine	4.06	102	210883	100.00	ppb	100
107) N-Nitrosomethylethylamine	3.50	42	194677	100.00	ppb	100
108) Ethyl methanesulfonate	4.29	79	310678	100.00	ppb	100
109) N-Nitrosopyrrolidine	5.16	41	162454m	62.95	ppb	
110) N-Nitrosomorpholine	5.17	56	207472	100.00	ppb	100
111) o-Toluidine	5.19	106	556495	100.00	ppb	# 37
113) O,O,O-Triethyl phosphoroth	5.58	198	187616	100.00	ppb	100
114) N-Nitrosopiperidine	5.39	42	231567	100.00	ppb	100
115) A,A-Dimethylphenethylamine	5.80	58	994437m	99.93	ppb	
116) Hexachloropropene	5.87	213	246299	100.00	ppb	100

(#) = qualifier out of range (m) = manual integration

F36118.D MFAP5692.M

Thu Jun 19 11:13:54 2014

RT1

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5702\F36118.D Vial: 2
 Acq On : 18 Jun 2014 8:25 pm Operator: ashleyd
 Sample : ic5702-100 Inst : MSF
 Misc : op74333,ef5702 Multiplr: 1.00
 MS Integration Params: LSCINT.P
 Quant Time: Jun 19 09:29:59 2014 Quant Results File: MFAP5692.RES

Quant Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)
 Title : Semi Volatile Extractables by GC/MS
 Last Update : Thu Jun 19 09:04:43 2014
 Response via : Initial Calibration
 DataAcq Meth : MF5692

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
118) N-Nitrosodi-n-butylamine	6.07	84	258199	100.00	ppb	100
119) Safrole	6.24	162	293256	100.00	ppb	100
120) Isosafrole	6.66	162	196472	100.00	ppb	100
122) Thionazin	7.83	143	101757	100.00	ppb	100
123) Tetraethyl dithiopyrophosp	8.23	322	99458	100.00	ppb	100
124) Phorate	8.43	75	452942	70.91	ppb	100
125) Phenacetin	8.46	108	408086	100.00	ppb	100
126) 1,4-Naphthoquinone	6.88	158	229338	100.00	ppb	100
127) m-Dinitrobenzene	7.00	168	127467	100.00	ppb	100
128) Pentachlorobenzene	7.44	250	280036	100.00	ppb	100
129) 1-Naphthylamine	7.57	143	552023	100.00	ppb	100
130) 2-Naphthylamine	7.66	143	659717	99.72	ppb	99
131) 5-Nitro-o-toluidine	7.90	152	238362	100.00	ppb	100
133) Disulfoton	9.24	88	371927	100.00	ppb	100
134) Dinoseb	9.24	211	201927	100.00	ppb	100
135) Dimethoate	8.68	87	289329	100.00	ppb	100
136) 4-Aminobiphenyl	8.93	169	740574	200.00	ppb	100
137) Methyl parathion	9.88	125	210580	100.00	ppb	100
138) Parathion	10.64	109	165488	100.00	ppb	100
139) Diphenylamine	8.02	169	1134373	100.00	ppb	100
140) Isodrin	11.14	193	126408	100.00	ppb	100
141) Diallate	8.42	86	313683	100.00	ppb	100
142) Pentachloronitrobenzene	8.96	295	72509	200.00	ppb	100
143) Pronamide	9.05	173	356745	100.00	ppb	100
144) 4-Nitroquinoline 1-oxide	10.66	190	390131	400.00	ppb	100
145) Methapyriline	10.88	58	306867m	100.15	ppb	
146) sym-Trinitrobenzene	8.39	213	77229	100.00	ppb	100
148) Aramite	12.35	185	66702	200.00	ppb	100
149) p-(Dimethylamine)azobenzen	12.64	120	369555	100.00	ppb	100
151) Famphur	13.33	218	1158720	600.00	ppb	100
152) 2-Acetylaminofluorene	13.94	181	518330	100.00	ppb	100
153) 3,3'-Dimethylbenzidine	13.39	212	75040	100.00	ppb	100
154) Chlorobenzilate	12.77	251	325233	100.00	ppb	100
156) 4,4-Methylene-bis-(2-chlor	14.60	266	79901	100.00	ppb	100
157) 3-Methylcholanthrene	18.24	268	489281	100.00	ppb	100
158) Hexachlorophene	17.37	196	206435	600.00	ppb	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 F36118.D MFAP5692.M Thu Jun 19 11:13:54 2014 RT1

Quantitation Report (QT Reviewed)

```

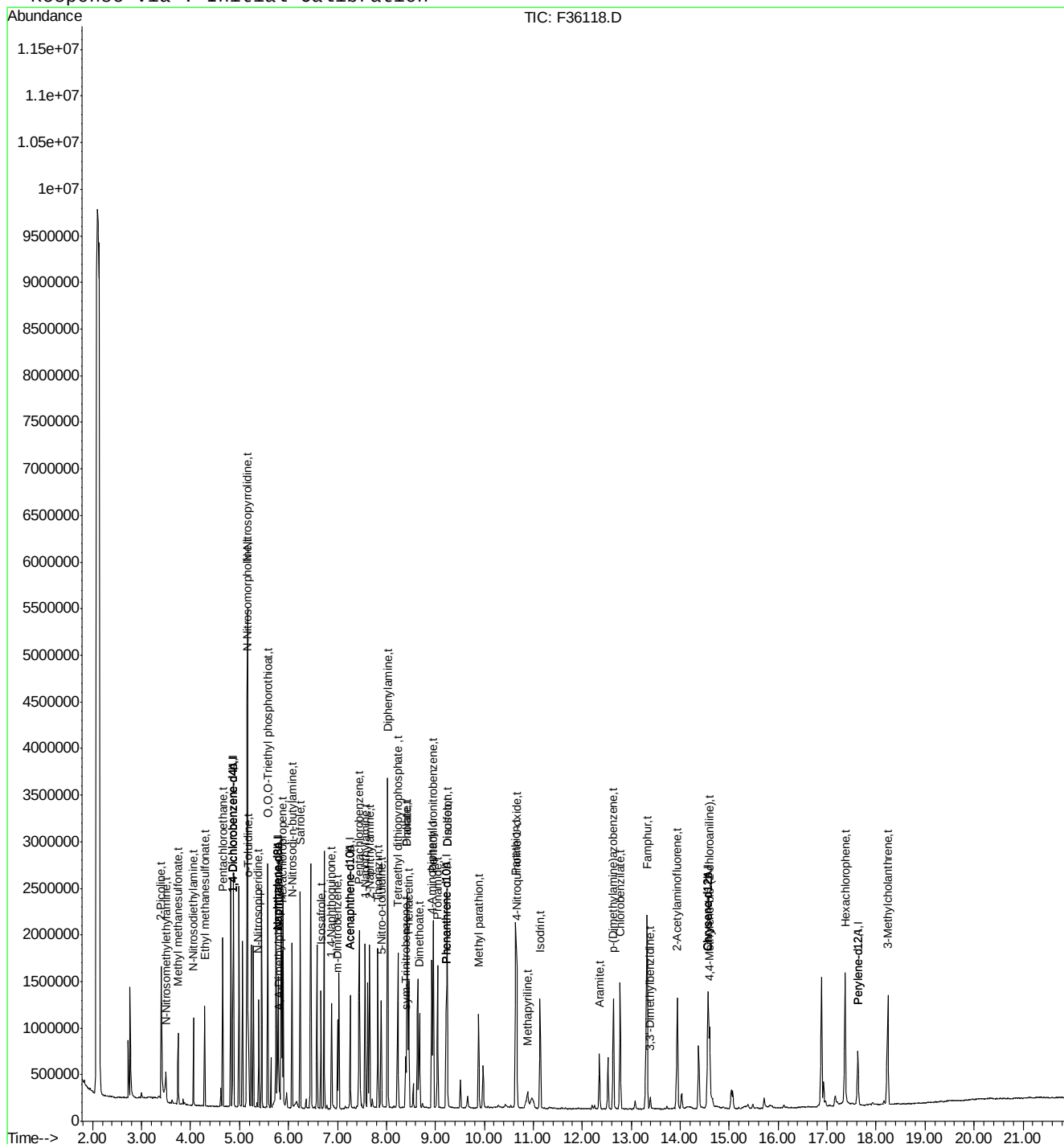
Data File   : C:\MSDCHEM\1\DATA\EF5702\F36118.D
Acq On      : 18 Jun 2014    8:25 pm
Sample      : ic5702-100
Misc        : op74333,ef5702
MS Integration Params: LSCINT.P
Quant Time  : Jun 19 10:04 2014

```

Vial: 2
Operator: ashleyd
Inst : MSF
Multiplr: 1.00

Quant Results File: MFAP5692.RES

Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 19 11:07:55 2014
Response via : Initial Calibration



F36118.D MFAP5692.M

Thu Jun 19 11:13:55 2014

RT1

Page 3

Manual Integration Approval Summary

Sample Number: EF5702-IC5702

Method: SW846 8270D

Lab FileID: F36118.D

Analyst approved: 06/20/14 12:57 Kristi Schollenberger

Injection Time: 06/18/14 20:25

Supervisor approved: 06/24/14 11:57 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
N-Nitrosopyrrolidine	930-55-2		5.16	Overlapping peak
A,A-Dimethylphenethylamine	122-09-8		5.80	Split peak
Methapyrilene	91-80-5		10.88	Split peak

9.6.85.1
9

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF5702\F36118.D

Vial: 2

Acq On : 18 Jun 2014 8:25 pm

Operator: ashleyd

Sample : ic5702-100

Inst : MSF

Misc : op74333,ef5702

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Jun 19 9:05 2014

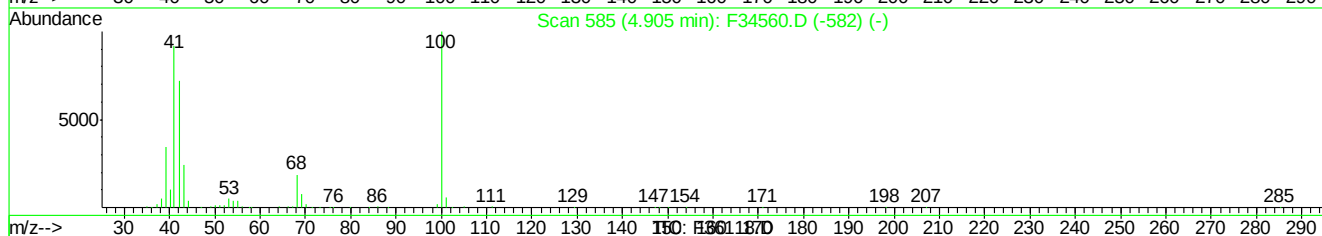
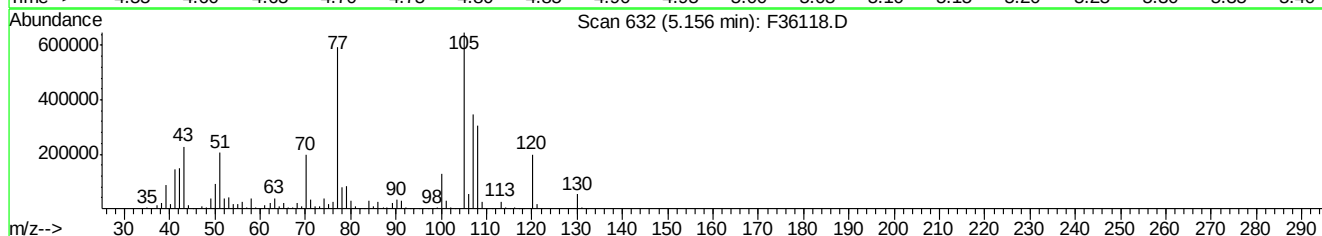
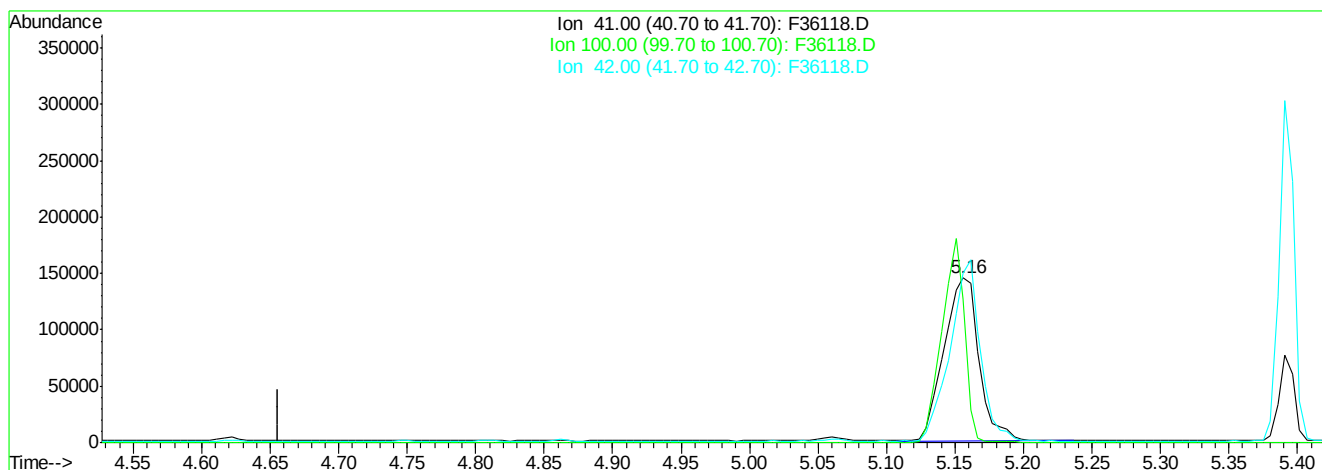
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Thu Jun 19 09:04:43 2014

Response via : Multiple Level Calibration



(109) N-Nitrosopyrrolidine (t)

5.16min 100.00ppb

response 258081

Ion	Exp%	Act%
41.00	100	100
100.00	87.50	88.38
42.00	102.50	102.83
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF5702\F36118.D

Vial: 2

Acq On : 18 Jun 2014 8:25 pm

Operator: ashleyd

Sample : ic5702-100

Inst : MSF

Misc : op74333,ef5702

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Jun 19 9:06 2014

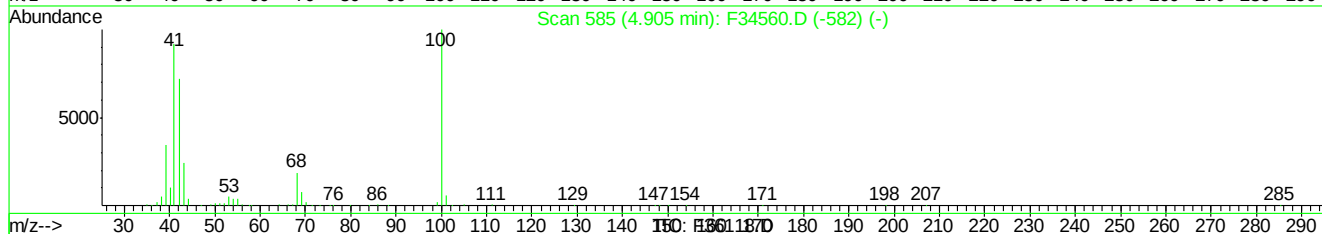
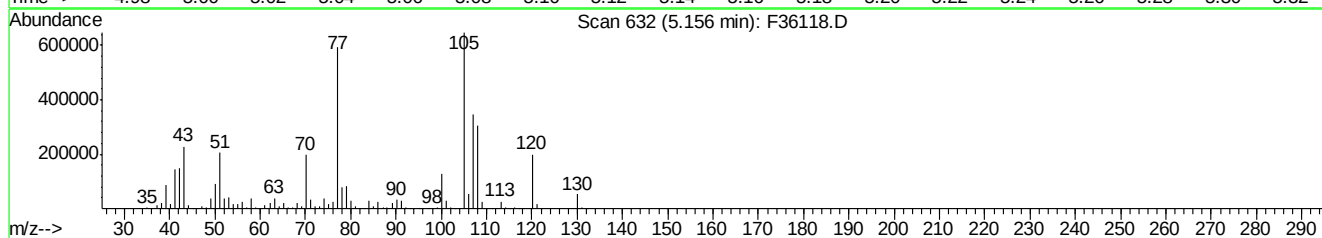
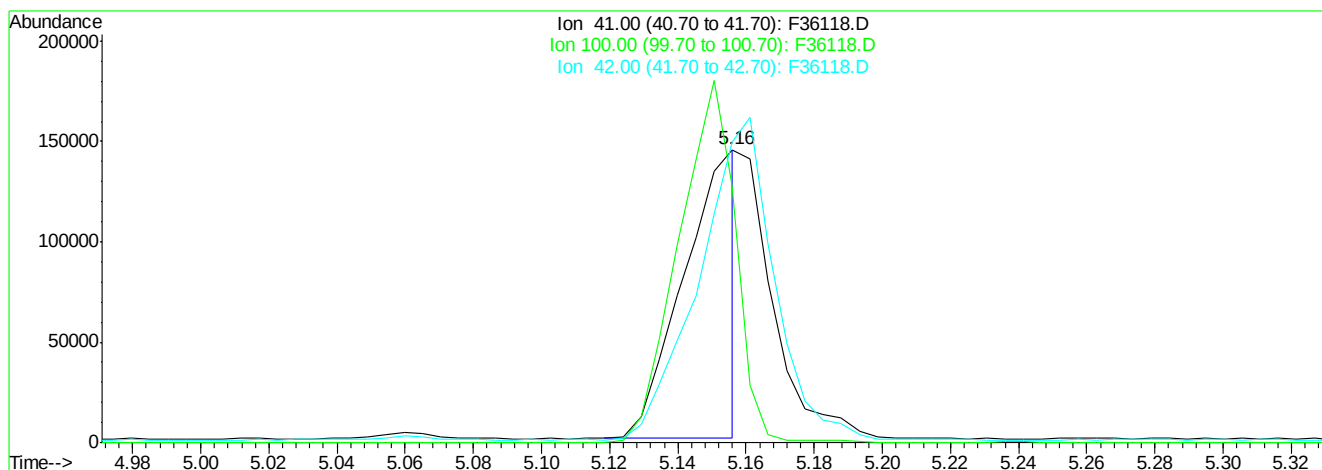
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Thu Jun 19 09:04:43 2014

Response via : Multiple Level Calibration



(109) N-Nitrosopyrrolidine (t)

5.16min 62.02ppb m

response 160067

Ion	Exp%	Act%
41.00	100	100
100.00	87.50	87.50
42.00	102.50	102.54
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF5702\F36118.D

Vial: 2

Acq On : 18 Jun 2014 8:25 pm

Operator: ashleyd

Sample : ic5702-100

Inst : MSF

Misc : op74333,ef5702

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Jun 19 9:06 2014

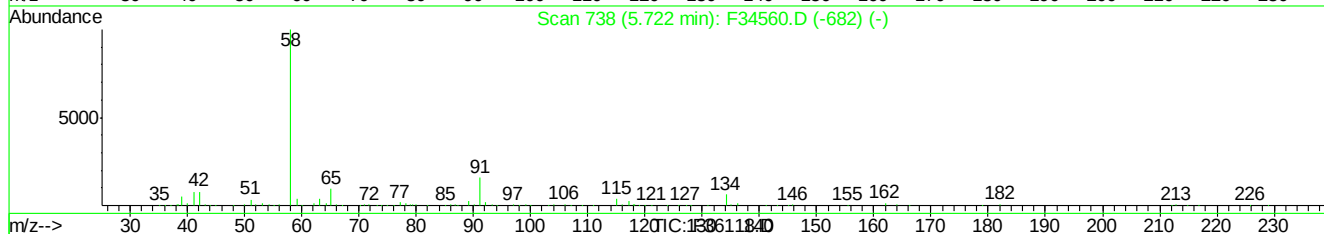
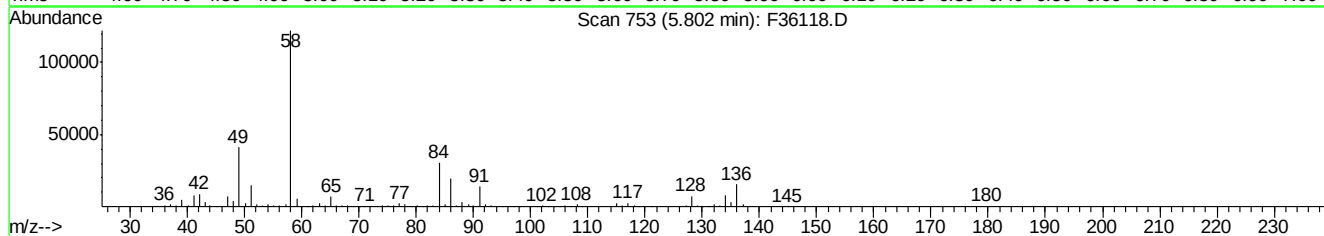
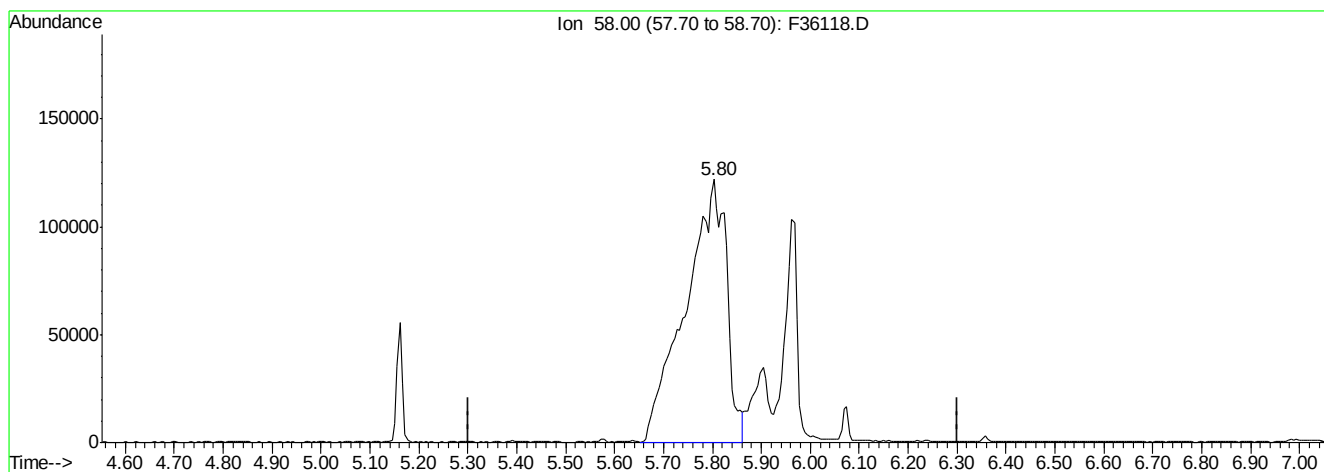
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Thu Jun 19 09:04:43 2014

Response via : Multiple Level Calibration



(115) A,A-Dimethylphenethylamine (t)

5.80min 71.20ppb

response 708533

Ion	Exp%	Act%
58.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF5702\F36118.D

Vial: 2

Acq On : 18 Jun 2014 8:25 pm

Operator: ashleyd

Sample : ic5702-100

Inst : MSF

Misc : op74333,ef5702

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Jun 19 9:06 2014

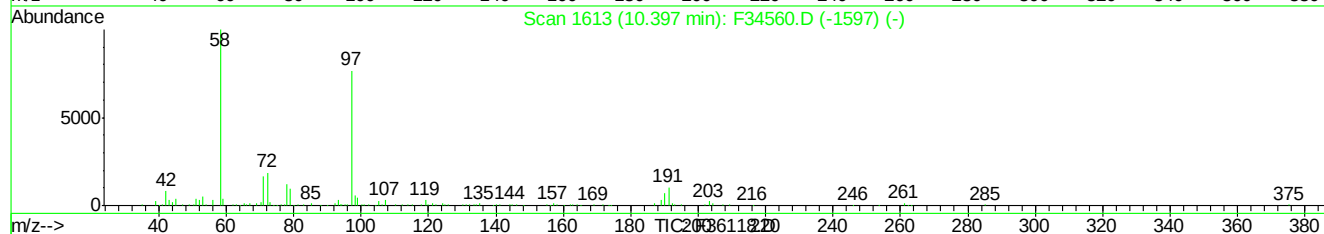
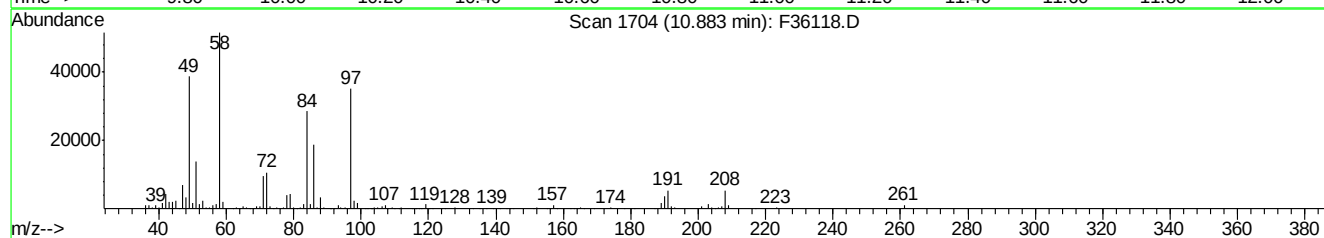
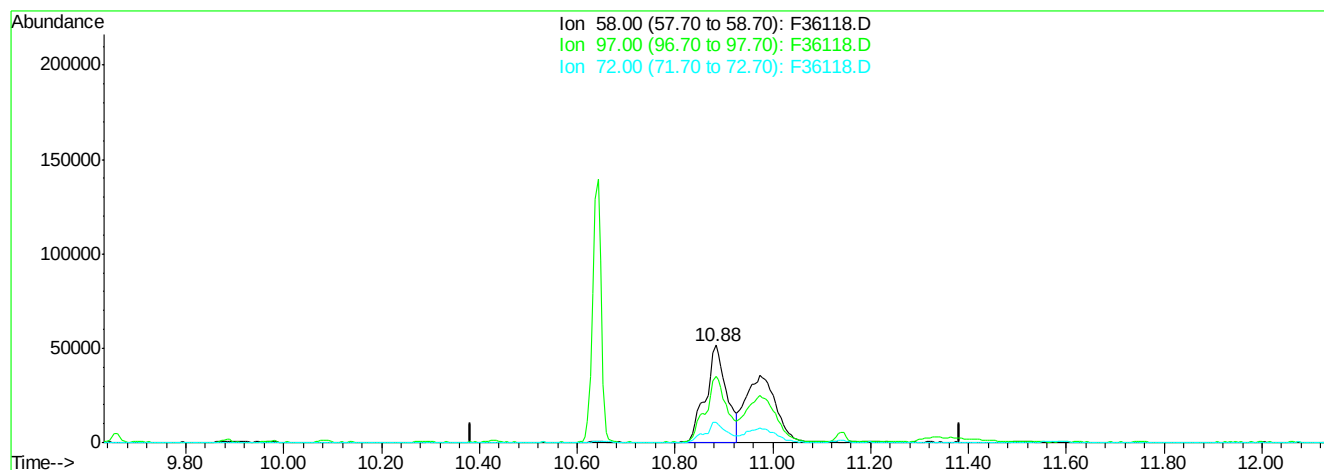
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Thu Jun 19 09:04:43 2014

Response via : Multiple Level Calibration



(145) Methapyriline (t)

10.88min 50.16ppb

response 153698

Ion	Exp%	Act%
58.00	100	100
97.00	68.00	67.01
72.00	20.80	20.32
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF5702\F36118.D

Vial: 2

Acq On : 18 Jun 2014 8:25 pm

Operator: ashleyd

Sample : ic5702-100

Inst : MSF

Misc : op74333,ef5702

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Jun 19 10:04 2014

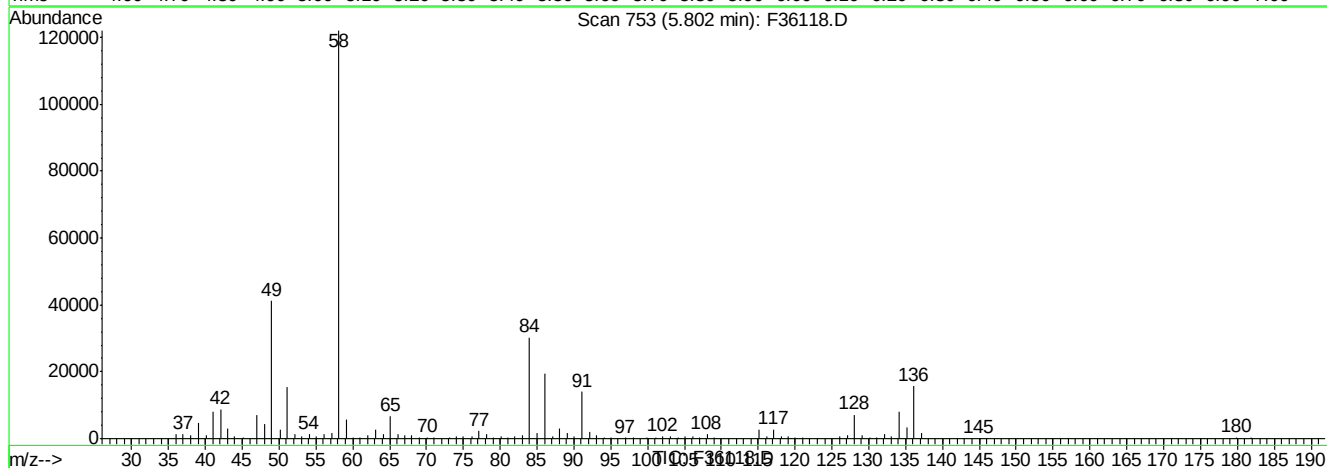
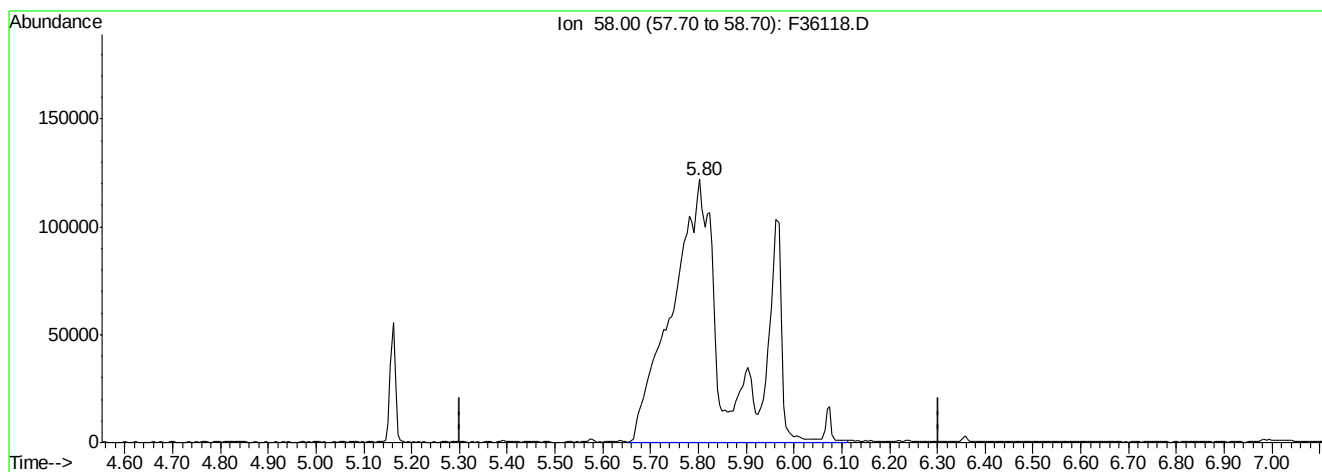
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Thu Jun 19 11:07:55 2014

Response via : Multiple Level Calibration



(115) A,A-Dimethylphenethylamine (t)

5.80min 99.93ppb m

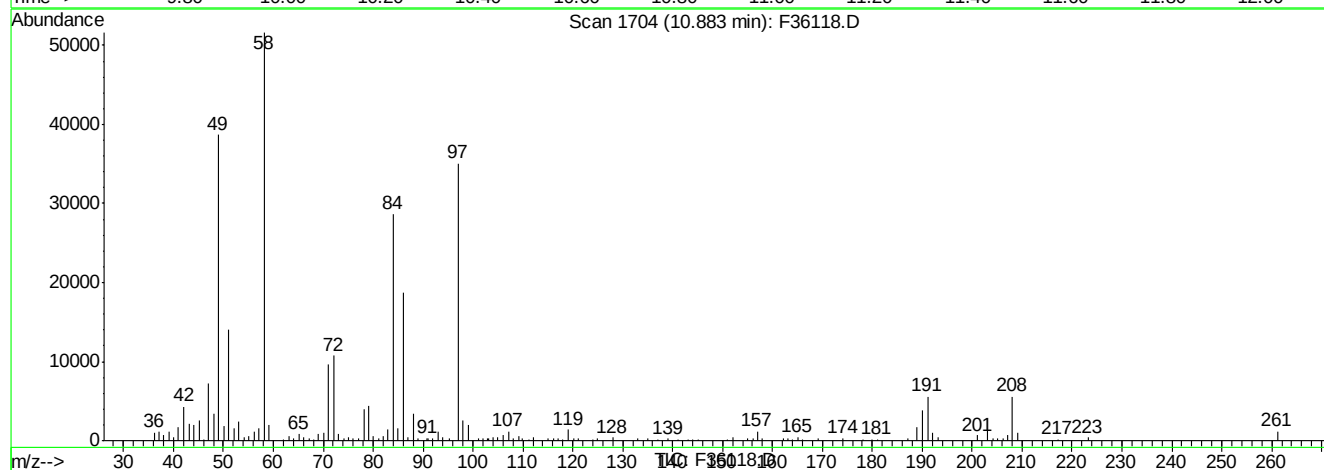
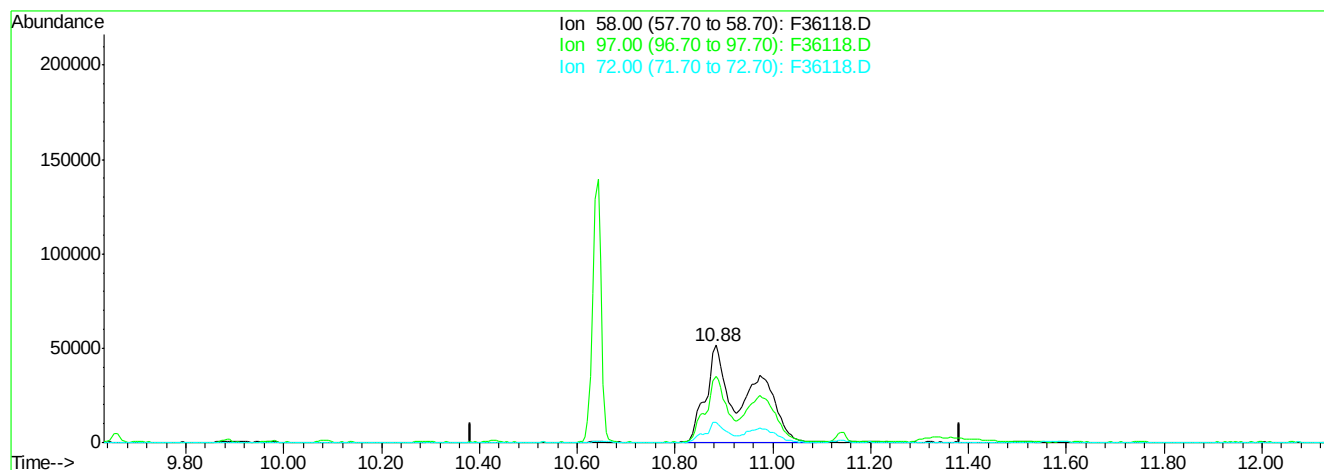
response 994437

Ion	Exp%	Act%
58.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF5702\F36118.D Vial: 2
Acq On : 18 Jun 2014 8:25 pm Operator: ashleyd
Sample : ic5702-100 Inst : MSF
Misc : op74333,ef5702 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 19 10:04 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 19 11:07:55 2014
Response via : Multiple Level Calibration



(145) Methapyriline (t)

10.88min 100.15ppb m

response 306867

Ion	Exp%	Act%
58.00	100	100
97.00	68.00	67.99
72.00	20.80	20.76
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5702\F36119.D

Vial: 3

Acq On : 18 Jun 2014 8:53 pm

Operator: ashleyd

Sample : ic5702-80

Inst : MSF

Misc : op74333,ef5702

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Jun 19 09:32:05 2014

Quant Results File: MFAP5692.RES

Quant Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Thu Jun 19 09:04:43 2014

Response via : Initial Calibration

DataAcq Meth : MF5692

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.86	152	127394	40.00	ppb	0.00
24) Naphthalene-d8	5.79	136	452718	40.00	ppb	0.00
47) Acenaphthene-d10	7.26	164	267896	40.00	ppb	0.00
69) Phenanthrene-d10	9.21	188	423239	40.00	ppb	-0.01
83) Chrysene-d12	14.55	240	403407	40.00	ppb	0.00
92) Perylene-d12	17.62	264	347270	40.00	ppb	-0.01
102) 1,4-Dichlorobenzene-d4A	4.86	152	127394	40.00	ppb	0.00
112) Naphthalene-d8A	5.79	136	452718	40.00	ppb	0.00
121) Acenaphthene-d10A	7.26	164	267896	40.00	ppb	0.00
132) Phenanthrene-d10A	9.21	188	423239	40.00	ppb	-0.01
147) Chrysene-d12A	14.55	240	403407	40.00	ppb	0.00
155) Perylene-d12A	17.62	264	347270	40.00	ppb	-0.01
159) 1,4-Dichlorobenzene-d4b	4.86	152	127394	40.00	ppb	0.00
161) Naphthalene-d8b	5.79	136	452718	40.00	ppb	0.00
163) Acenaphthene-d10b	7.26	164	267896	40.00	ppb	0.00
165) Phenanthrene-d10b	9.21	188	423239	40.00	ppb	-0.01
167) Chrysene-d12b	14.55	240	403407	40.00	ppb	0.00
169) 1,4-Dichlorobenzene-d4c	4.86	152	127394	40.00	ppb	0.00
171) Naphthalene-d8c	5.79	136	452718	40.00	ppb	0.00
176) Chrysene-d12c	14.55	240	403407	40.00	ppb	0.00
178) Naphthalene-d8a	5.79	136	452718	40.00	ppb	-0.02

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
8) Phenol-d5	0.00	99	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
25) Nitrobenzene-d5	0.00	82	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.00	172	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
85) Terphenyl-d14	0.00	244	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	

Target Compounds

						Qvalue
103) 2-Picoline	3.40	93	375988	80.91	ppb	99
104) Pentachloroethane	4.65	167	136415	81.24	ppb	93
105) Methyl methanesulfonate	3.74	80	179124	82.02	ppb	100
106) N-Nitrosodiethylamine	4.06	102	165370	80.80	ppb	96
107) N-Nitrosomethylethylamine	3.49	42	151799	80.34	ppb	97
108) Ethyl methanesulfonate	4.29	79	246486	81.75	ppb	97
109) N-Nitrosopyrrolidine	5.15	41	133209m	53.18	ppb	
110) N-Nitrosomorpholine	5.17	56	168189	83.53	ppb	98
111) o-Toluidine	5.18	106	445633	82.51	ppb	78
113) O,O,O-Triethyl phosphoroth	5.57	198	148655	81.82	ppb	94
114) N-Nitrosopiperidine	5.39	42	184050	82.07	ppb	99
115) A,A-Dimethylphenethylamine	5.96	58	804245m	83.46	ppb	
116) Hexachloropropene	5.87	213	199001	83.43	ppb	100

(#)=qualifier out of range (m)=manual integration

F36119.D MFAP5692.M

Thu Jun 19 11:14:02 2014

RT1

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5702\F36119.D

Vial: 3

Acq On : 18 Jun 2014 8:53 pm

Operator: ashleyd

Sample : ic5702-80

Inst : MSF

Misc : op74333,ef5702

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Jun 19 09:32:05 2014

Quant Results File: MFAP5692.RES

Quant Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Thu Jun 19 09:04:43 2014

Response via : Initial Calibration

DataAcq Meth : MF5692

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
118) N-Nitrosodi-n-butylamine	6.07	84	207642	83.04	ppb	96
119) Safrole	6.24	162	233892	82.36	ppb	97
120) Isosafrole	6.66	162	155318	81.63	ppb	99
122) Thionazin	7.82	143	83371	83.92	ppb	99
123) Tetraethyl dithiopyrophosp	8.23	322	81205	83.63	ppb	100
124) Phorate	8.43	75	376147	60.32	ppb	100
125) Phenacetin	8.45	108	334306	83.91	ppb	99
126) 1,4-Naphthoquinone	6.88	158	196346	87.70	ppb	99
127) m-Dinitrobenzene	7.00	168	101221	81.34	ppb	98
128) Pentachlorobenzene	7.44	250	226359	82.80	ppb	100
129) 1-Naphthylamine	7.56	143	446193	82.79	ppb	99
130) 2-Naphthylamine	7.65	143	542970	84.07	ppb	99
131) 5-Nitro-o-toluidine	7.89	152	189900	81.61	ppb	98
133) Disulfoton	9.24	88	305613	83.23	ppb	98
134) Dinoseb	9.24	211	159752	80.13	ppb	99
135) Dimethoate	8.67	87	240352	84.14	ppb	97
136) 4-Aminobiphenyl	8.92	169	619359	169.41	ppb	99
137) Methyl parathion	9.88	125	175563	84.44	ppb	98
138) Parathion	10.63	109	135295	82.81	ppb	99
139) Diphenylamine	8.02	169	929087	82.96	ppb	99
140) Isodrin	11.13	193	101715	81.50	ppb	99
141) Diallate	8.41	86	255038	82.35	ppb	96
142) Pentachloronitrobenzene	8.95	295	58271	162.79	ppb	99
143) Pronamide	9.04	173	290693	82.53	ppb	99
144) 4-Nitroquinoline 1-oxide	10.65	190	333552	346.39	ppb	100
145) Methapyriline	10.87	58	268282m	88.68	ppb	
146) sym-Trinitrobenzene	8.39	213	62508	81.98	ppb	84
148) Aramite	12.34	185	55539	166.26	ppb	96
149) p-(Dimethylamine)azobenzen	12.63	120	305920	82.65	ppb	99
151) Famphur	13.32	218	1114962	576.41	ppb	98
152) 2-Acetylaminofluorene	13.93	181	423830	81.64	ppb	98
153) 3,3'-Dimethylbenzidine	13.38	212	100782	134.09	ppb	99
154) Chlorobenzilate	12.77	251	272028	83.51	ppb	94
156) 4,4-Methylene-bis-(2-chlor	14.59	266	69798	87.91	ppb	94
157) 3-Methylcholanthrene	18.23	268	400434	82.36	ppb	100
158) Hexachlorophene	17.36	196	141325	413.37	ppb	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 F36119.D MFAP5692.M Thu Jun 19 11:14:02 2014 RT1

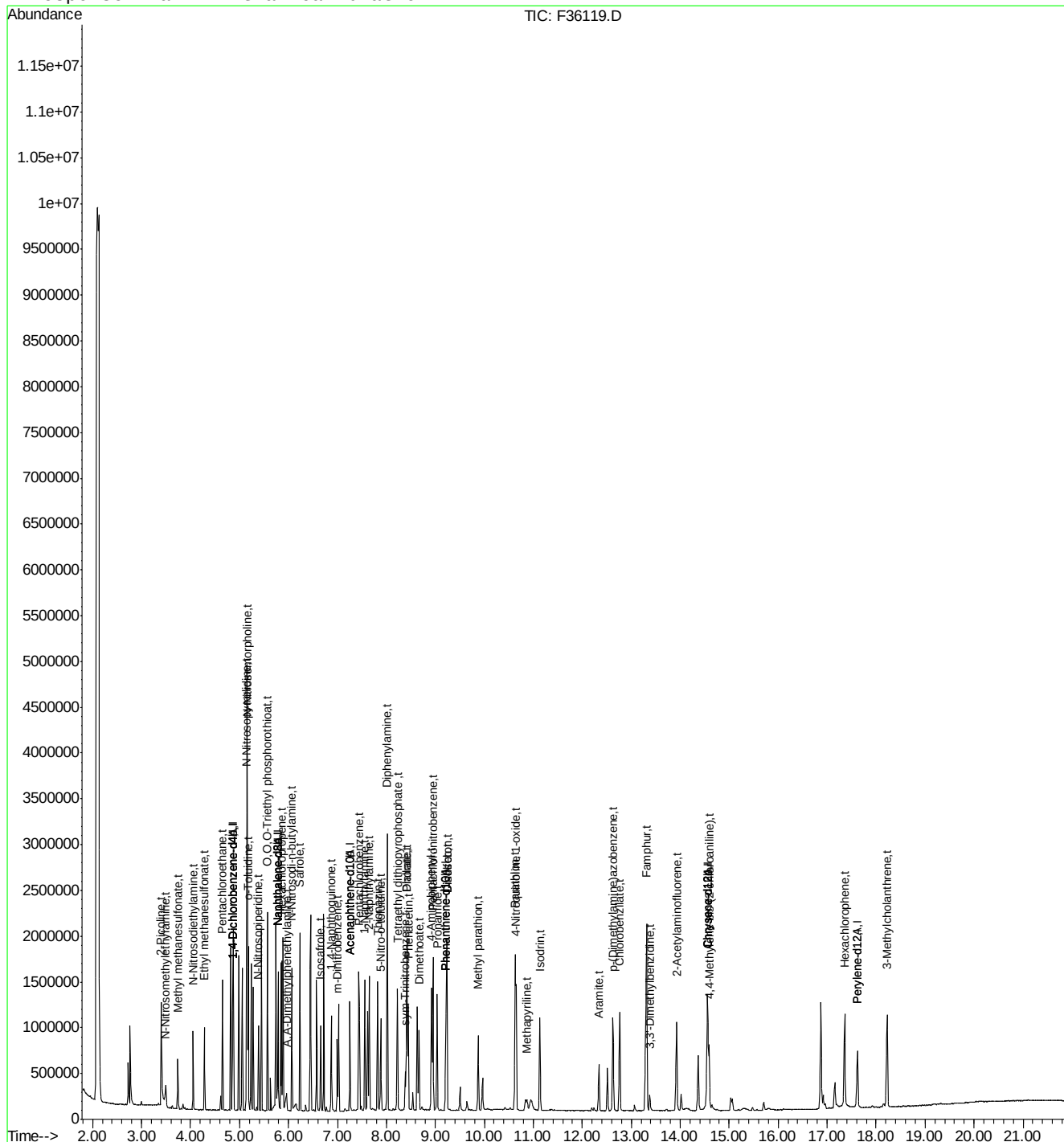
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5702\F36119.D
Acq On : 18 Jun 2014 8:53 pm
Sample : ic5702-80
Misc : op74333,ef5702
MS Integration Params: LSCINT.P
Quant Time: Jun 19 10:05 2014

Vial: 3
Operator: ashleyd
Inst : MSF
Multiplr: 1.00

Quant Results File: MFAP5692.RES

Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 19 11:07:55 2014
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: EF5702-IC5702

Method: SW846 8270D

Lab FileID: F36119.D

Analyst approved: 06/20/14 12:57 Kristi Schollenberger

Injection Time: 06/18/14 20:53

Supervisor approved: 06/24/14 11:57 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
N-Nitrosopyrrolidine	930-55-2		5.15	Overlapping peak
A,A-Dimethylphenethylamine	122-09-8		5.96	Split peak
Methapyrilene	91-80-5		10.87	Split peak

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF5702\F36119.D

Vial: 3

Acq On : 18 Jun 2014 8:53 pm

Operator: ashleyd

Sample : ic5702-80

Inst : MSF

Misc : op74333,ef5702

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Jun 19 9:08 2014

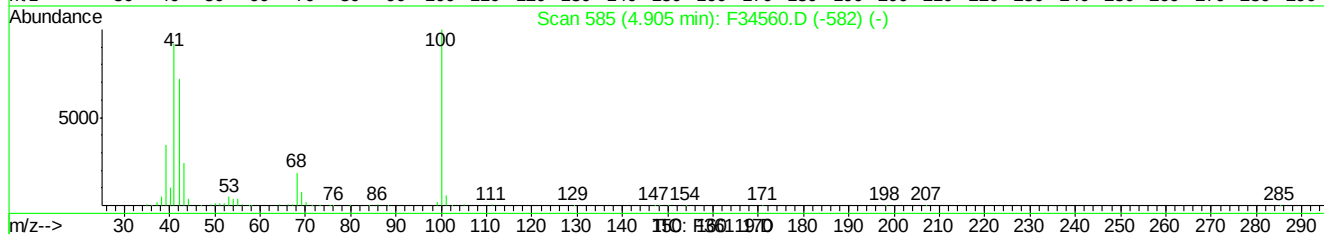
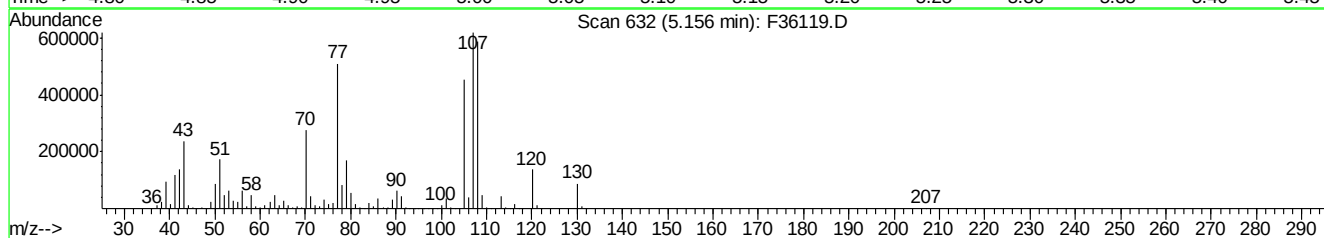
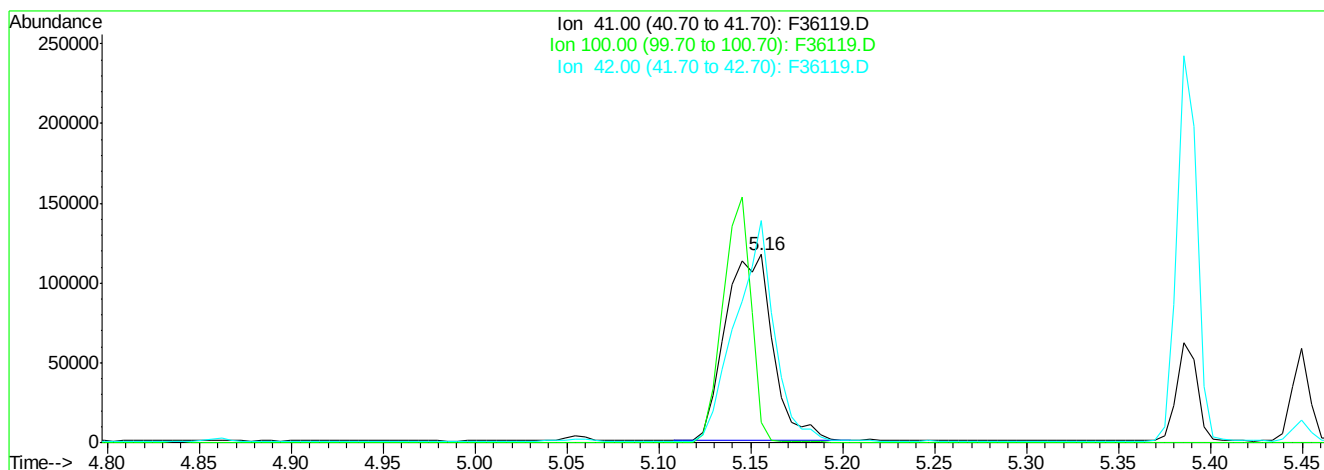
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Thu Jun 19 09:04:43 2014

Response via : Multiple Level Calibration



(109) N-Nitrosopyrrolidine (t)

5.16min 83.74ppb

response 209761

Ion	Exp%	Act%
41.00	100	100
100.00	87.50	11.15#
42.00	102.50	118.77
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF5702\F36119.D

Vial: 3

Acq On : 18 Jun 2014 8:53 pm

Operator: ashleyd

Sample : ic5702-80

Inst : MSF

Misc : op74333,ef5702

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Jun 19 9:10 2014

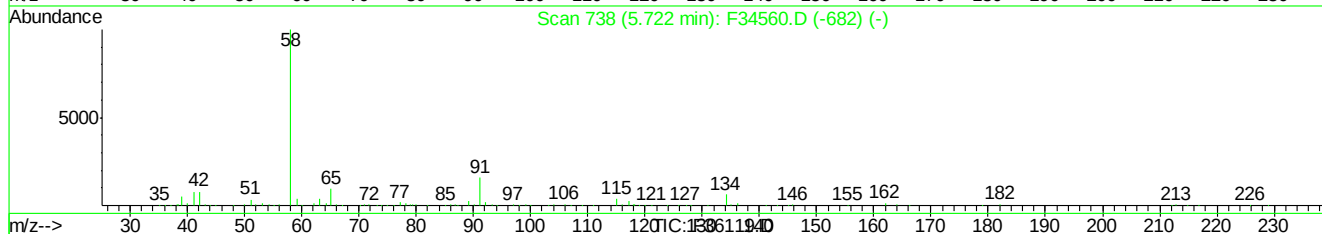
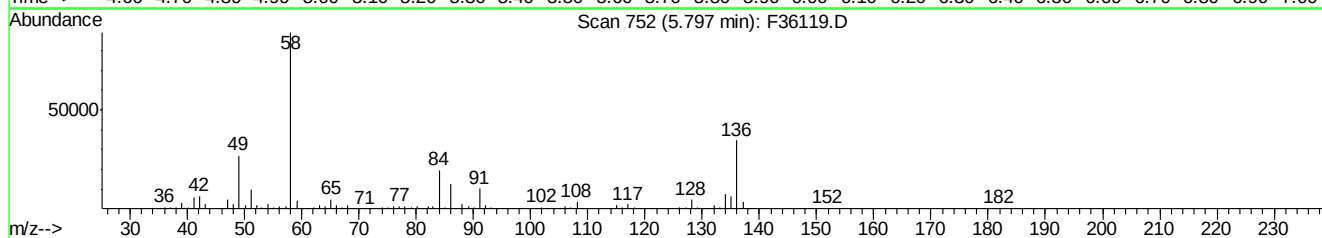
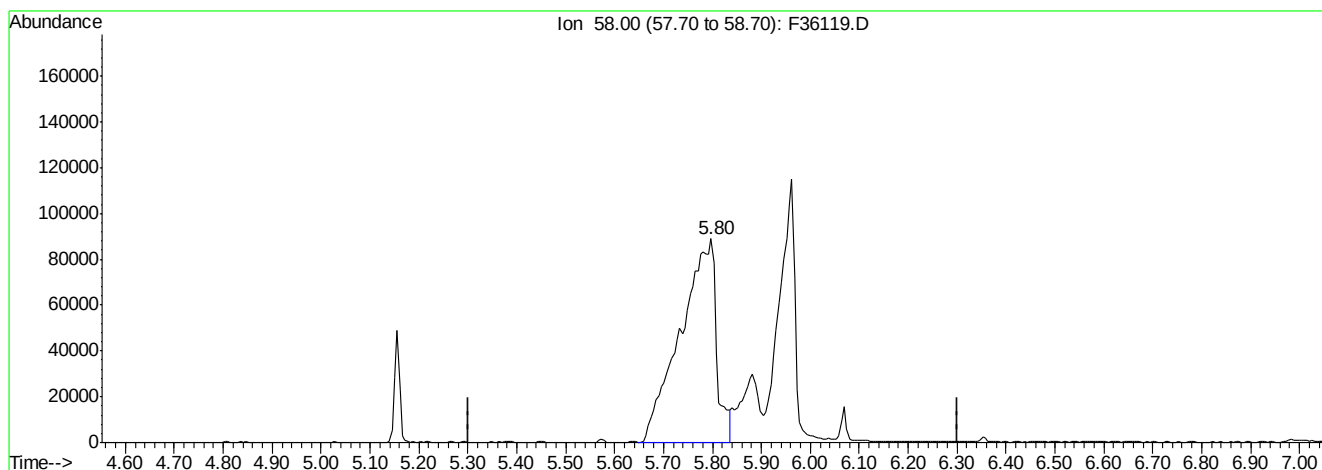
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Thu Jun 19 09:04:43 2014

Response via : Multiple Level Calibration



(115) A,A-Dimethylphenethylamine (t)

5.80min 46.82ppb

response 451187

Ion	Exp%	Act%
58.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF5702\F36119.D

Vial: 3

Acq On : 18 Jun 2014 8:53 pm

Operator: ashleyd

Sample : ic5702-80

Inst : MSF

Misc : op74333,ef5702

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Jun 19 9:11 2014

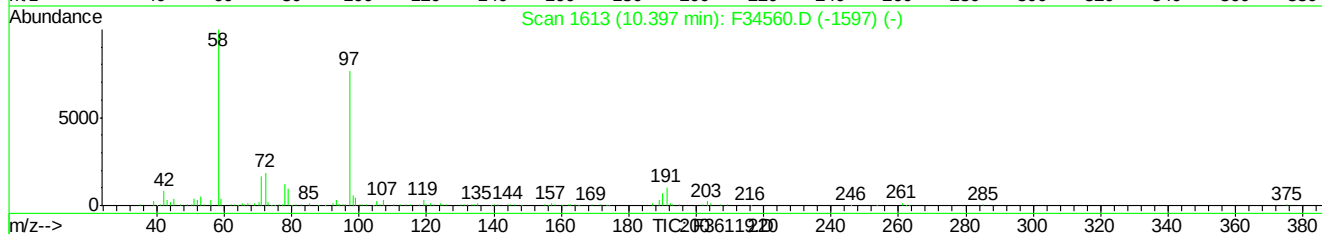
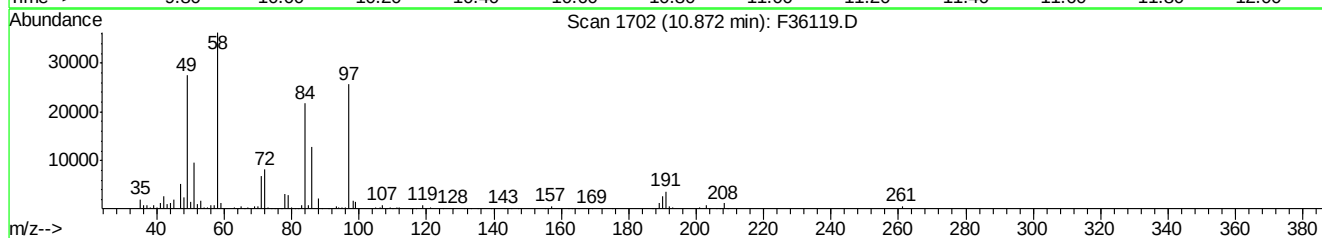
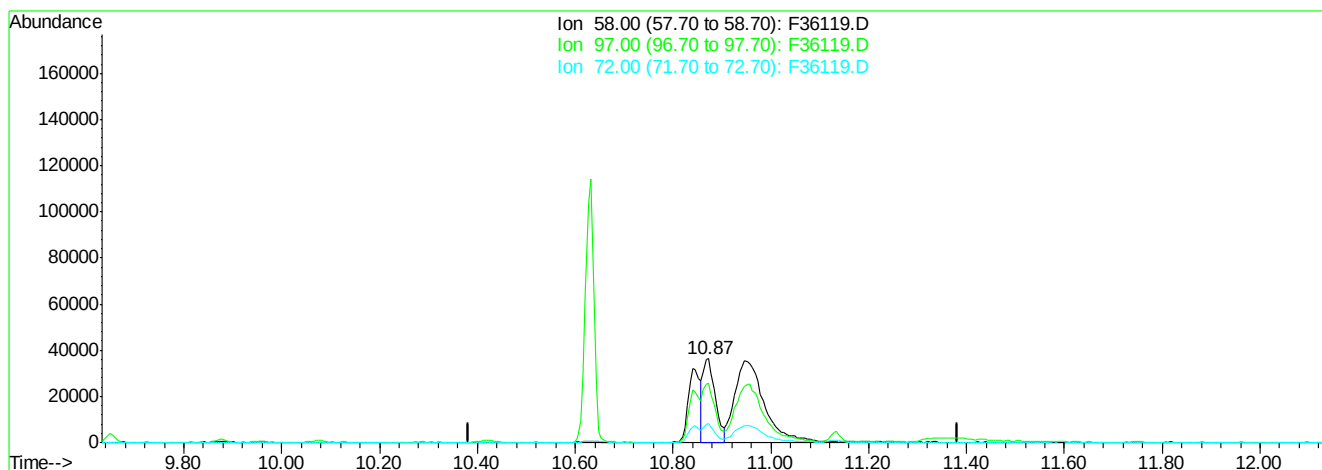
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Thu Jun 19 09:04:43 2014

Response via : Multiple Level Calibration



(145) Methapyriline (t)

10.87min 20.98ppb

response 63480

Ion	Exp%	Act%
58.00	100	100
97.00	68.00	71.81
72.00	20.80	24.56
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF5702\F36119.D

Vial: 3

Acq On : 18 Jun 2014 8:53 pm

Operator: ashleyd

Sample : ic5702-80

Inst : MSF

Misc : op74333,ef5702

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Jun 19 10:05 2014

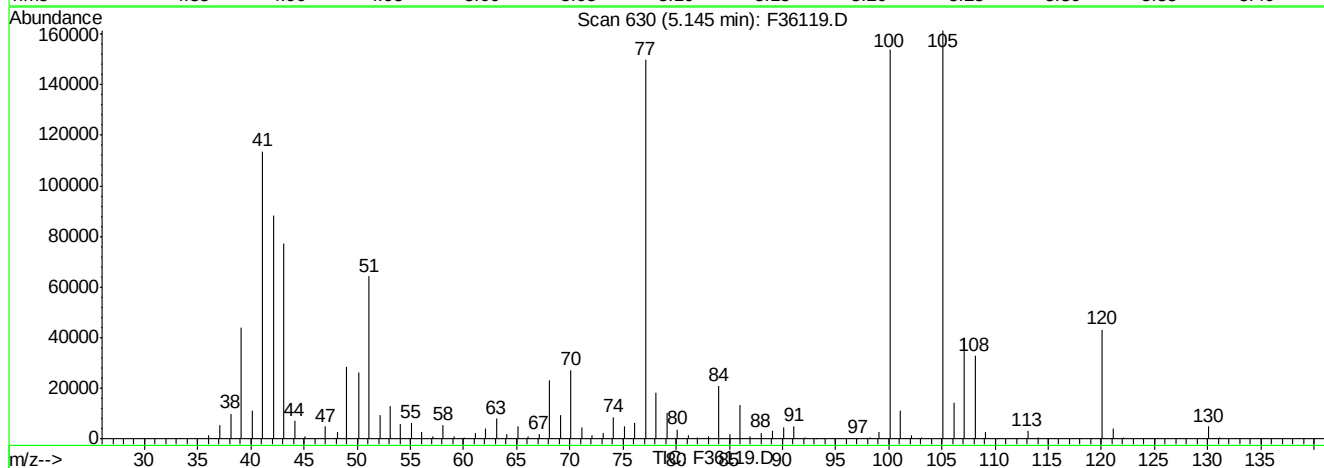
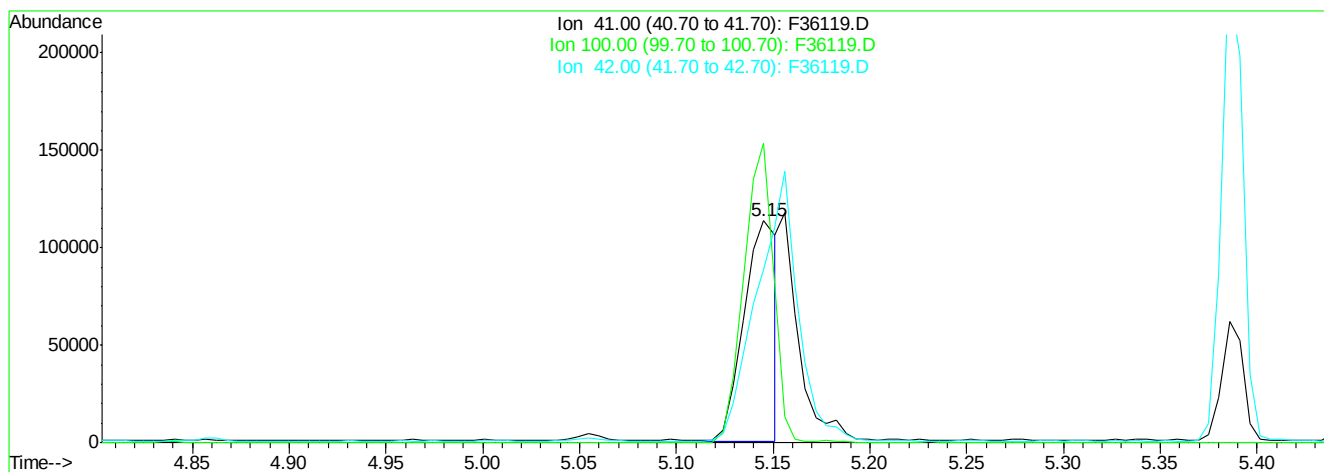
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Thu Jun 19 11:07:55 2014

Response via : Multiple Level Calibration



(109) N-Nitrosopyrrolidine (t)

5.15min 53.18ppb m

response 133209

Ion	Exp%	Act%
41.00	100	100
100.00	87.50	135.28#
42.00	102.50	77.71
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF5702\F36119.D

Vial: 3

Acq On : 18 Jun 2014 8:53 pm

Operator: ashleyd

Sample : ic5702-80

Inst : MSF

Misc : op74333,ef5702

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Jun 19 10:05 2014

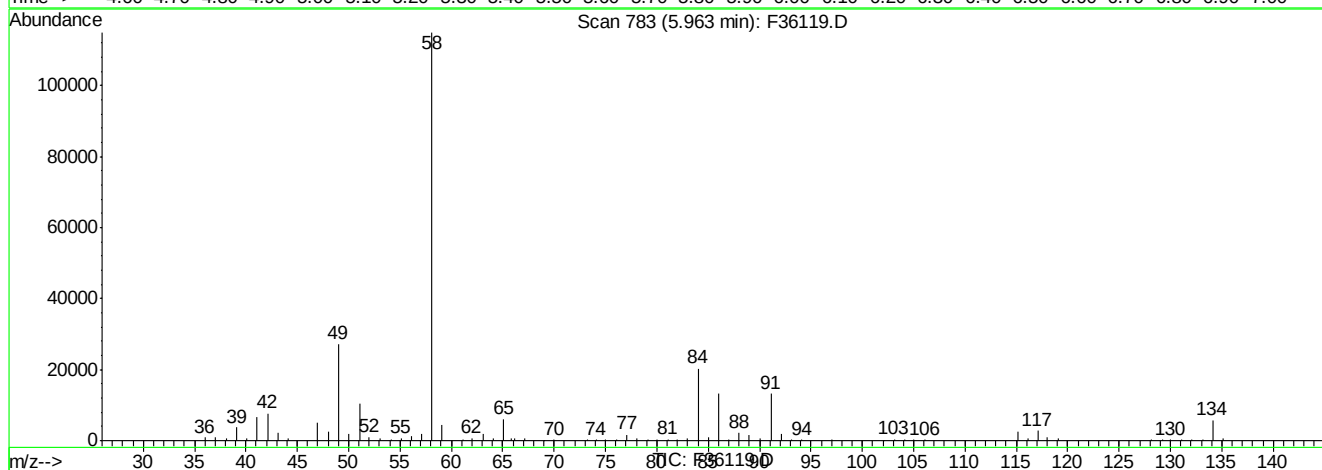
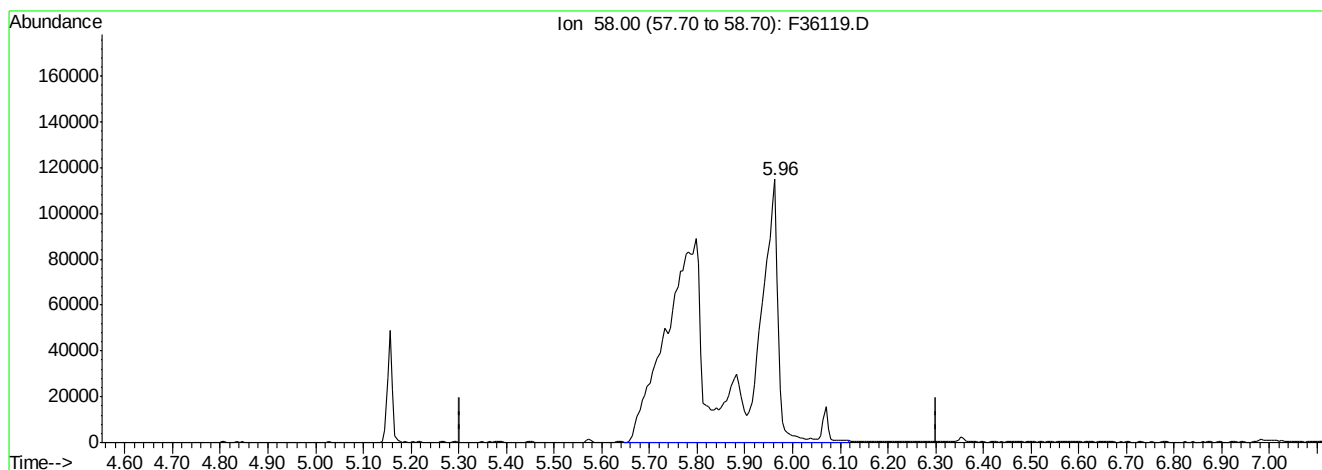
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Thu Jun 19 11:07:55 2014

Response via : Multiple Level Calibration



(115) A,A-Dimethylphenethylamine (t)

5.96min 83.46ppb m

response 804245

Ion	Exp%	Act%
58.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF5702\F36119.D

Vial: 3

Acq On : 18 Jun 2014 8:53 pm

Operator: ashleyd

Sample : ic5702-80

Inst : MSF

Misc : op74333,ef5702

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Jun 19 10:05 2014

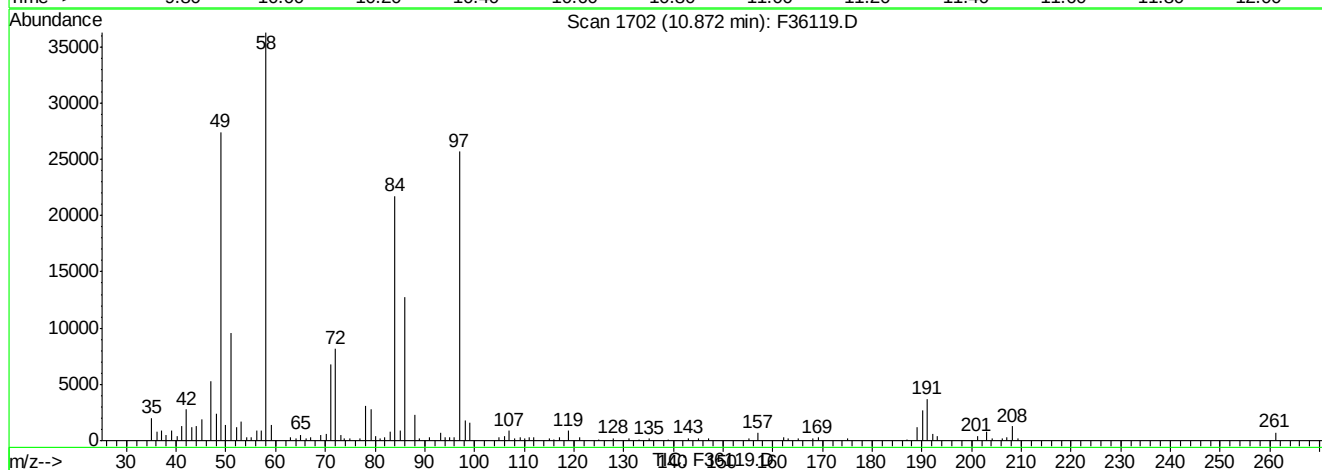
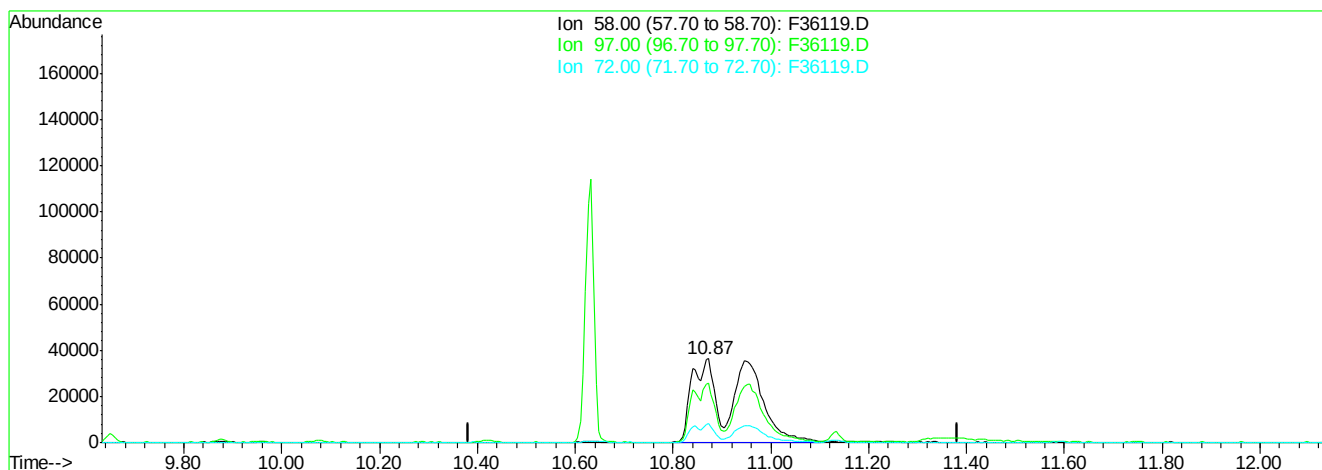
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Thu Jun 19 11:07:55 2014

Response via : Multiple Level Calibration



(145) Methapyriline (t)

10.87min 88.68ppb m

response 268282

Ion	Exp%	Act%
58.00	100	100
97.00	68.00	70.81
72.00	20.80	22.45
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5702\F36120.D

Vial: 4

Acq On : 18 Jun 2014 9:22 pm

Operator: ashleyd

Sample : icc5702-50

Inst : MSF

Misc : op74333,ef5702

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Jun 19 09:33:40 2014

Quant Results File: MFAP5692.RES

Quant Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Thu Jun 19 09:04:43 2014

Response via : Initial Calibration

DataAcq Meth : MF5692

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.86	152	167917	40.00	ppb	0.00
24) Naphthalene-d8	5.79	136	592897	40.00	ppb	0.00
47) Acenaphthene-d10	7.26	164	353229	40.00	ppb	0.00
69) Phenanthrene-d10	9.21	188	562135	40.00	ppb	-0.01
83) Chrysene-d12	14.55	240	534523	40.00	ppb	0.00
92) Perylene-d12	17.62	264	471896	40.00	ppb	-0.01
102) 1,4-Dichlorobenzene-d4A	4.86	152	167917	40.00	ppb	0.00
112) Naphthalene-d8A	5.79	136	592897	40.00	ppb	0.00
121) Acenaphthene-d10A	7.26	164	353229	40.00	ppb	0.00
132) Phenanthrene-d10A	9.21	188	562135	40.00	ppb	-0.01
147) Chrysene-d12A	14.55	240	534523	40.00	ppb	0.00
155) Perylene-d12A	17.62	264	471896	40.00	ppb	-0.01
159) 1,4-Dichlorobenzene-d4b	4.86	152	167917	40.00	ppb	0.00
161) Naphthalene-d8b	5.79	136	592897	40.00	ppb	0.00
163) Acenaphthene-d10b	7.26	164	353229	40.00	ppb	0.00
165) Phenanthrene-d10b	9.21	188	562135	40.00	ppb	-0.01
167) Chrysene-d12b	14.55	240	534523	40.00	ppb	0.00
169) 1,4-Dichlorobenzene-d4c	4.86	152	167917	40.00	ppb	0.00
171) Naphthalene-d8c	5.79	136	592897	40.00	ppb	0.00
176) Chrysene-d12c	14.55	240	534523	40.00	ppb	0.00
178) Naphthalene-d8a	5.79	136	592897	40.00	ppb	-0.02

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
8) Phenol-d5	0.00	99	0d	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
25) Nitrobenzene-d5	0.00	82	0d	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.00	172	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
85) Terphenyl-d14	0.00	244	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	

Target Compounds

						Qvalue
103) 2-Picoline	3.40	93	296378	48.39	ppb	99
104) Pentachloroethane	4.65	167	111503	50.38	ppb	94
105) Methyl methanesulfonate	3.74	80	134157	46.60	ppb	98
106) N-Nitrosodiethylamine	4.06	102	132892	49.26	ppb	96
107) N-Nitrosomethylethylamine	3.49	42	123112	49.43	ppb	97
108) Ethyl methanesulfonate	4.29	79	201576	50.72	ppb	97
109) N-Nitrosopyrrolidine	5.14	41	94726m	28.69	ppb	
110) N-Nitrosomorpholine	5.16	56	139040	52.39	ppb	97
111) o-Toluidine	5.18	106	351154	49.33	ppb	# 45
113) O,O,O-Triethyl phosphoroth	5.57	198	119771	50.33	ppb	98
114) N-Nitrosopiperidine	5.39	42	149866	51.03	ppb	97
115) A,A-Dimethylphenethylamine	5.97	58	575809m	45.62	ppb	
116) Hexachloropropene	5.87	213	163214	52.25	ppb	99

(#) = qualifier out of range (m) = manual integration

F36120.D MFAP5692.M

Thu Jun 19 11:14:09 2014

RT1

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5702\F36120.D Vial: 4
 Acq On : 18 Jun 2014 9:22 pm Operator: ashleyd
 Sample : icc5702-50 Inst : MSF
 Misc : op74333,ef5702 Multiplr: 1.00
 MS Integration Params: LSCINT.P
 Quant Time: Jun 19 09:33:40 2014 Quant Results File: MFAP5692.RES

Quant Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)
 Title : Semi Volatile Extractables by GC/MS
 Last Update : Thu Jun 19 09:04:43 2014
 Response via : Initial Calibration
 DataAcq Meth : MF5692

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
118) N-Nitrosodi-n-butylamine	6.07	84	172076	52.55	ppb	99
119) Safrole	6.24	162	189866	51.05	ppb	99
120) Isosafrole	6.66	162	127055	50.99	ppb	99
122) Thionazin	7.82	143	68777	52.51	ppb	96
123) Tetraethyl dithiopyrophosp	8.23	322	65787	51.39	ppb	100
124) Phorate	8.42	75	303031	36.86	ppb	100
125) Phenacetin	8.45	108	272074	51.79	ppb	100
126) 1,4-Naphthoquinone	6.88	158	167402	56.71	ppb	97
127) m-Dinitrobenzene	7.00	168	81019	49.38	ppb	94
128) Pentachlorobenzene	7.44	250	183937	51.03	ppb	98
129) 1-Naphthylamine	7.55	143	322605	45.40	ppb	100
130) 2-Naphthylamine	7.65	143	378879	44.49	ppb	99
131) 5-Nitro-o-toluidine	7.88	152	152980	49.86	ppb	93
133) Disulfoton	9.23	88	231214	47.41	ppb	99
134) Dinoseb	9.23	211	129721	48.99	ppb	100
135) Dimethoate	8.67	87	199526	52.59	ppb	97
136) 4-Aminobiphenyl	8.92	169	470425	96.88	ppb	99
137) Methyl parathion	9.87	125	145987	52.87	ppb	99
138) Parathion	10.63	109	109648	50.53	ppb	96
139) Diphenylamine	8.02	169	772457	51.93	ppb	98
140) Isodrin	11.13	193	83942	50.64	ppb	99
141) Diallate	8.41	86	210333	51.13	ppb	98
142) Pentachloronitrobenzene	8.95	295	48199	101.38	ppb	97
143) Pronamide	9.03	173	238708	51.03	ppb	99
144) 4-Nitroquinoline 1-oxide	10.65	190	276681	216.33	ppb	97
145) Methapyriline	10.85	58	224107m	55.77	ppb	
146) sym-Trinitrobenzene	8.38	213	50453	49.82	ppb	95
148) Aramite	12.34	185	45358	102.48	ppb	97
149) p-(Dimethylamine)azobenzen	12.62	120	252316	51.45	ppb	97
151) Famphur	13.31	218	1064055	415.16	ppb	96
152) 2-Acetylaminofluorene	13.92	181	348445	50.65	ppb	99
153) 3,3'-Dimethylbenzidine	13.38	212	70821	71.11	ppb	98
154) Chlorobenzilate	12.76	251	224921	52.11	ppb	95
156) 4,4-Methylene-bis-(2-chlor	14.59	266	60521	56.10	ppb	98
157) 3-Methylcholanthrene	18.22	268	330431	50.01	ppb	99
158) Hexachlorophene	17.35	196	85241	183.48	ppb	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 F36120.D MFAP5692.M Thu Jun 19 11:14:09 2014 RT1

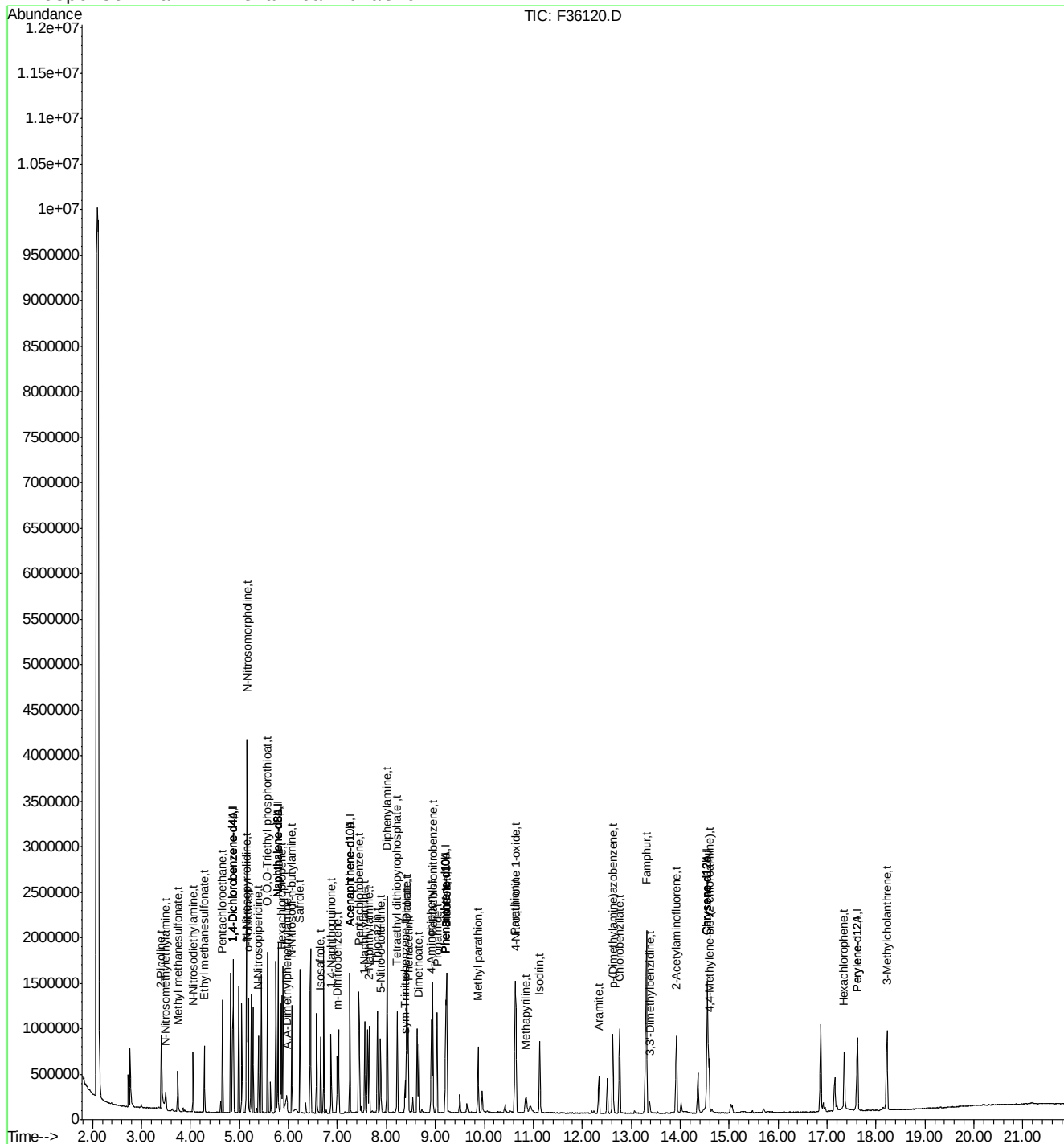
Quantitation Report (QT Reviewed)

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Data File   : C:\MSDCHEM\1\DATA\EF5702\F36120.D
Acq On      : 18 Jun 2014    9:22 pm
Sample      : icc5702-50
Misc        : op74333,ef5702
MS Integration Params: LSCINT.P
Quant Time  : Jun 19 10:05 2014      Ou
```

Vial: 4
Operator: ashleyd
Inst : MSF
Multiplr: 1.00

Quant Results File: MFAP5692.RES

Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 19 11:07:55 2014
Response via : Initial Calibration



F36120.D MFAP5692.M

Thu Jun 19 11:14:09 2014

RT1

Page 3

Manual Integration Approval Summary

Sample Number: EF5702-ICC5702

Method: SW846 8270D

Lab FileID: F36120.D

Analyst approved: 06/20/14 12:57 Kristi Schollenberger

Injection Time: 06/18/14 21:22

Supervisor approved: 06/24/14 11:57 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
N-Nitrosopyrrolidine	930-55-2		5.14	Overlapping peak
A,A-Dimethylphenethylamine	122-09-8		5.97	Split peak
Methapyrilene	91-80-5		10.85	Split peak

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF5702\F36120.D

Vial: 4

Acq On : 18 Jun 2014 9:22 pm

Operator: ashleyd

Sample : icc5702-50

Inst : MSF

Misc : op74333,ef5702

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Jun 19 9:12 2014

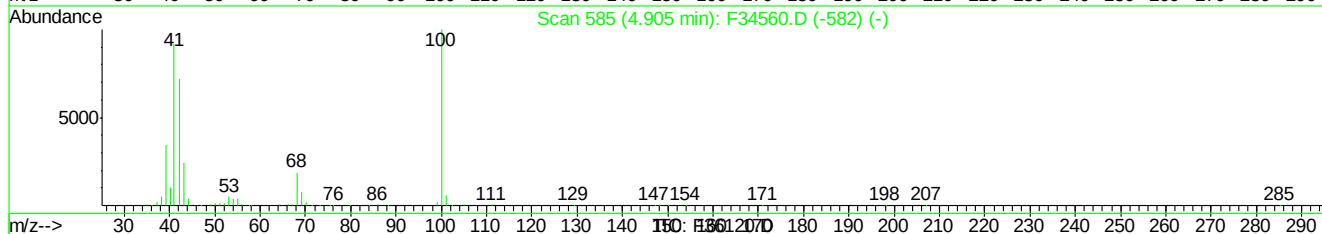
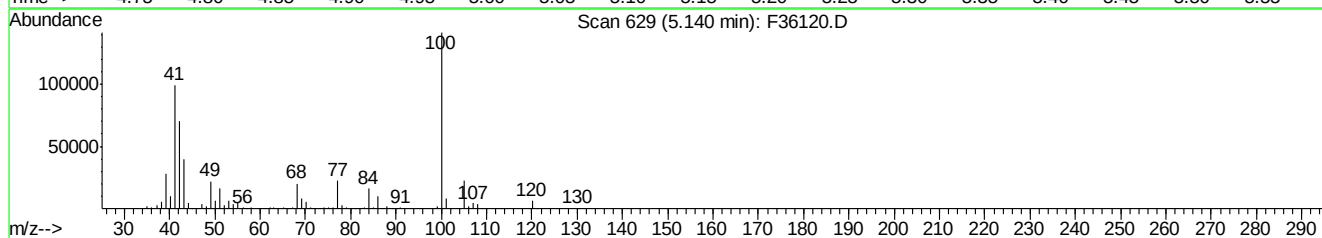
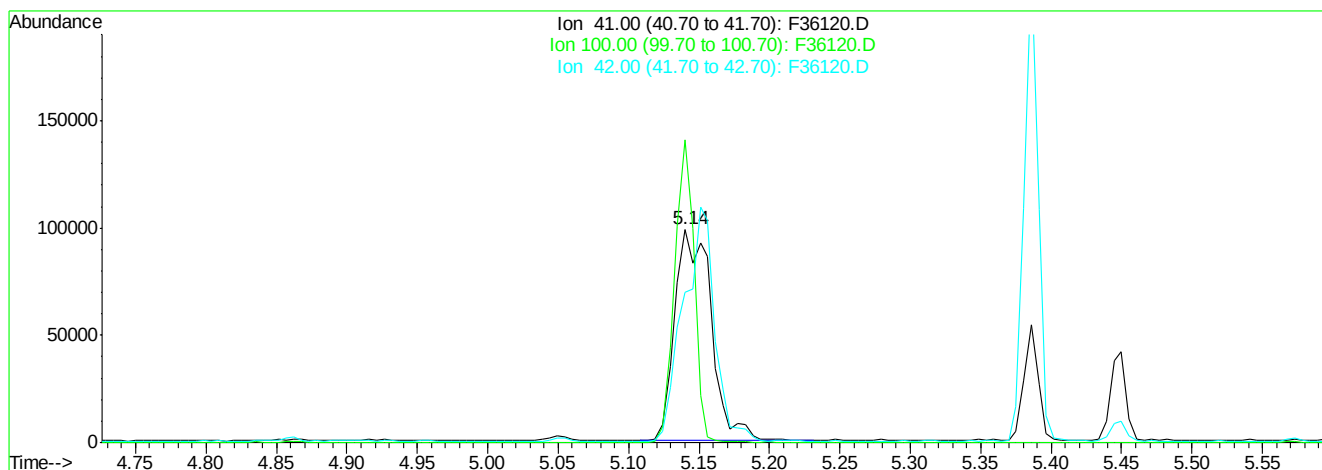
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Thu Jun 19 09:04:43 2014

Response via : Multiple Level Calibration



(109) N-Nitrosopyrrolidine (t)

5.14min 53.60ppb

response 176947

Ion	Exp%	Act%
41.00	100	100
100.00	87.50	143.55#
42.00	102.50	70.44#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF5702\F36120.D

Vial: 4

Acq On : 18 Jun 2014 9:22 pm

Operator: ashleyd

Sample : icc5702-50

Inst : MSF

Misc : op74333,ef5702

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Jun 19 9:12 2014

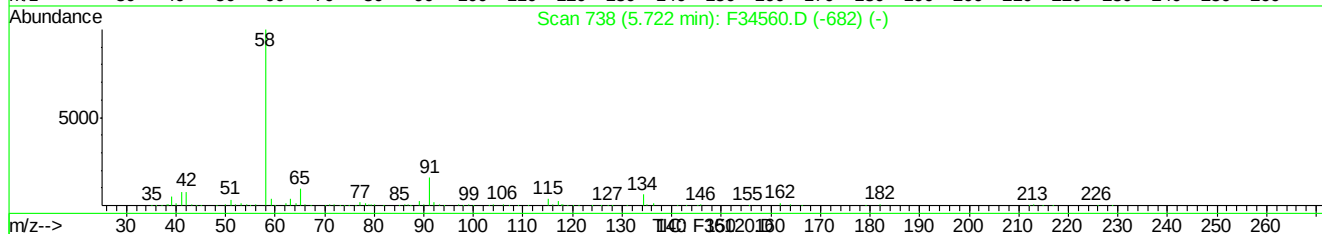
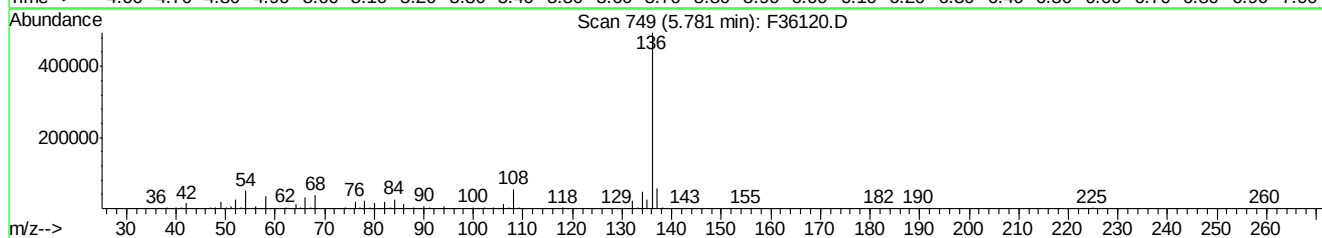
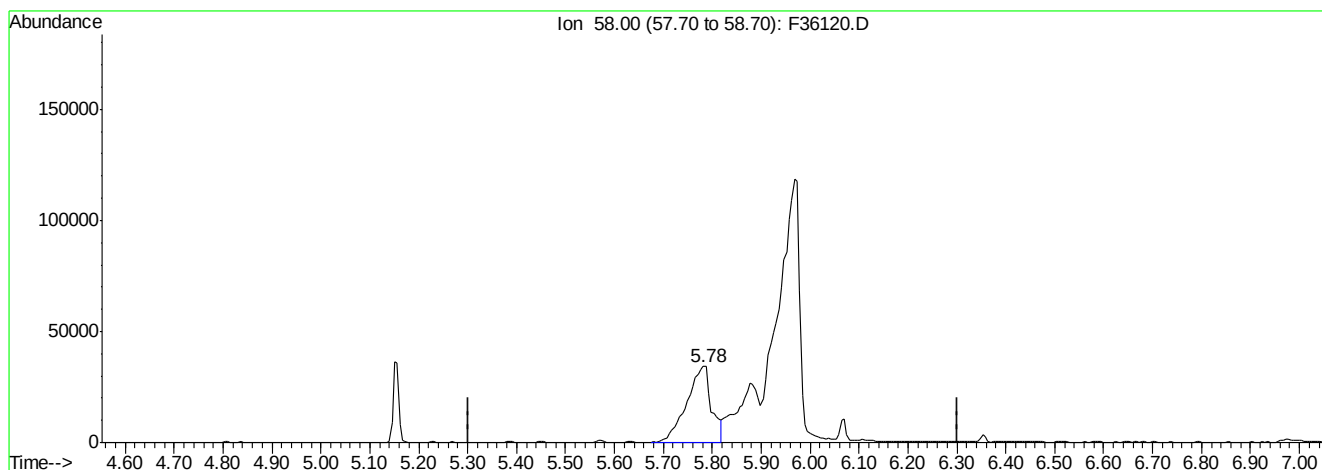
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Thu Jun 19 09:04:43 2014

Response via : Multiple Level Calibration



(115) A,A-Dimethylphenethylamine (t)

5.78min 9.53ppb

response 120267

Ion	Exp%	Act%
58.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF5702\F36120.D

Vial: 4

Acq On : 18 Jun 2014 9:22 pm

Operator: ashleyd

Sample : icc5702-50

Inst : MSF

Misc : op74333,ef5702

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Jun 19 9:13 2014

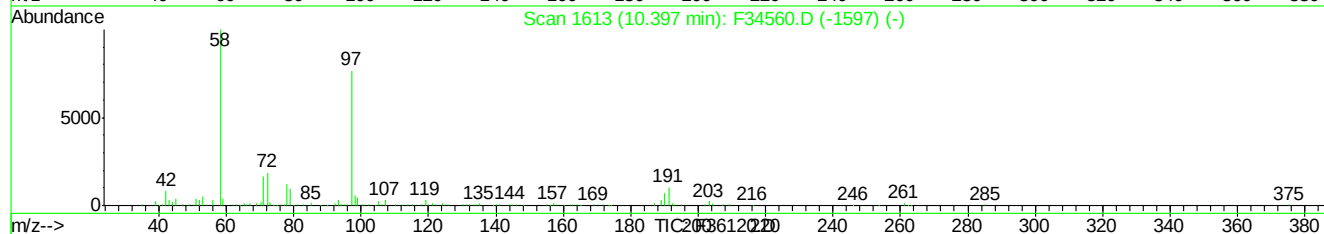
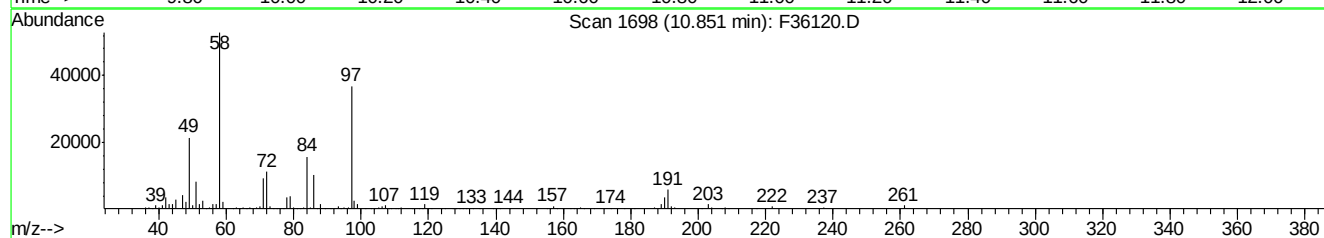
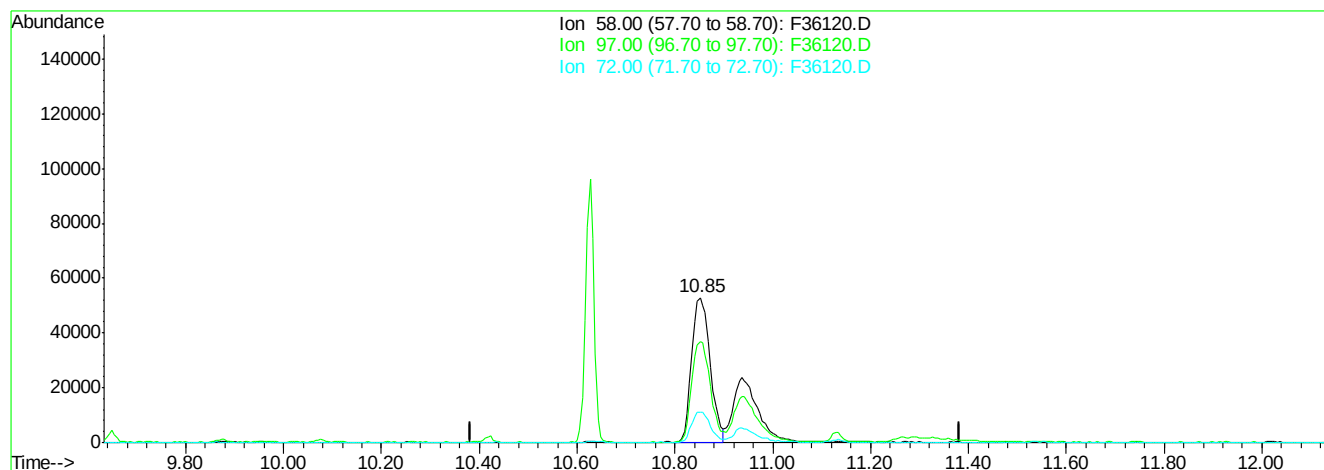
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Thu Jun 19 09:04:43 2014

Response via : Multiple Level Calibration



(145) Methapyriline (t)

10.85min 34.80ppb

response 139844

Ion	Exp%	Act%
58.00	100	100
97.00	68.00	68.81
72.00	20.80	20.93
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF5702\F36120.D

Vial: 4

Acq On : 18 Jun 2014 9:22 pm

Operator: ashleyd

Sample : icc5702-50

Inst : MSF

Misc : op74333,ef5702

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Jun 19 10:05 2014

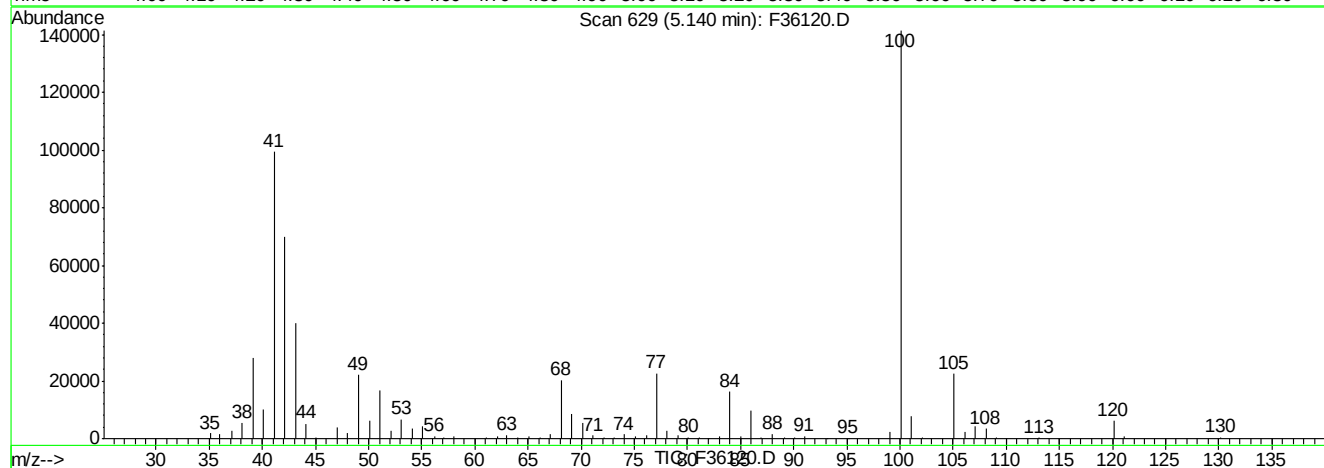
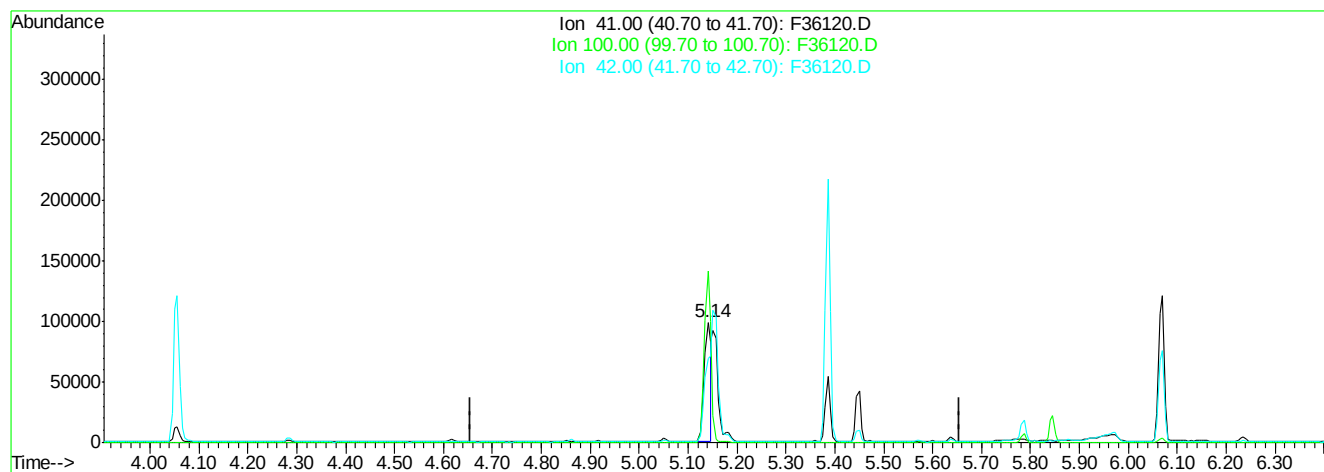
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Thu Jun 19 11:07:55 2014

Response via : Multiple Level Calibration



(109) N-Nitrosopyrrolidine (t)

5.14min 28.69ppb m

response 94726

Ion	Exp%	Act%
41.00	100	100
100.00	87.50	142.29#
42.00	102.50	70.44#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF5702\F36120.D

Vial: 4

Acq On : 18 Jun 2014 9:22 pm

Operator: ashleyd

Sample : icc5702-50

Inst : MSF

Misc : op74333,ef5702

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Jun 19 10:05 2014

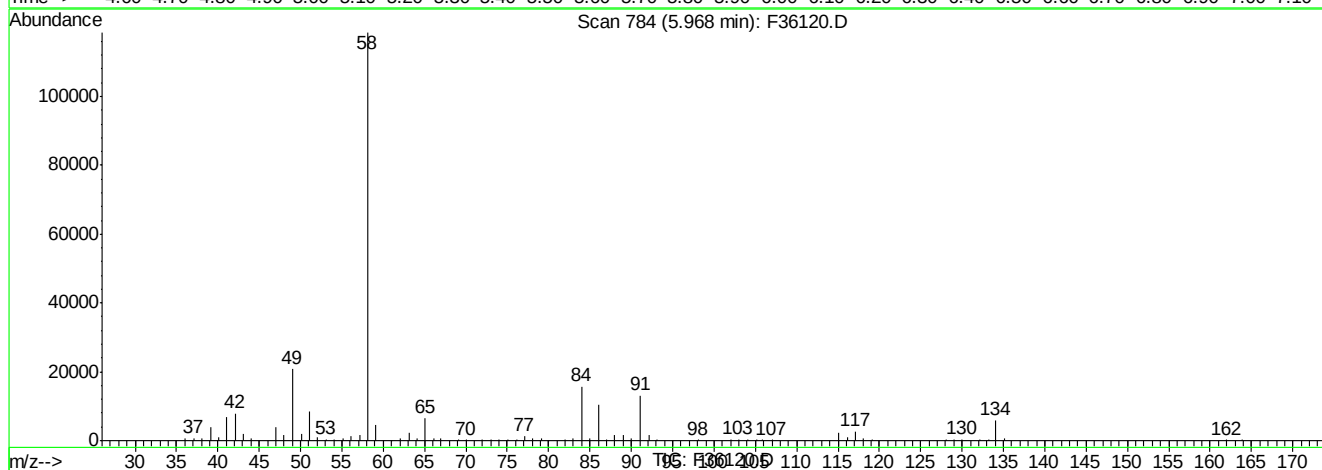
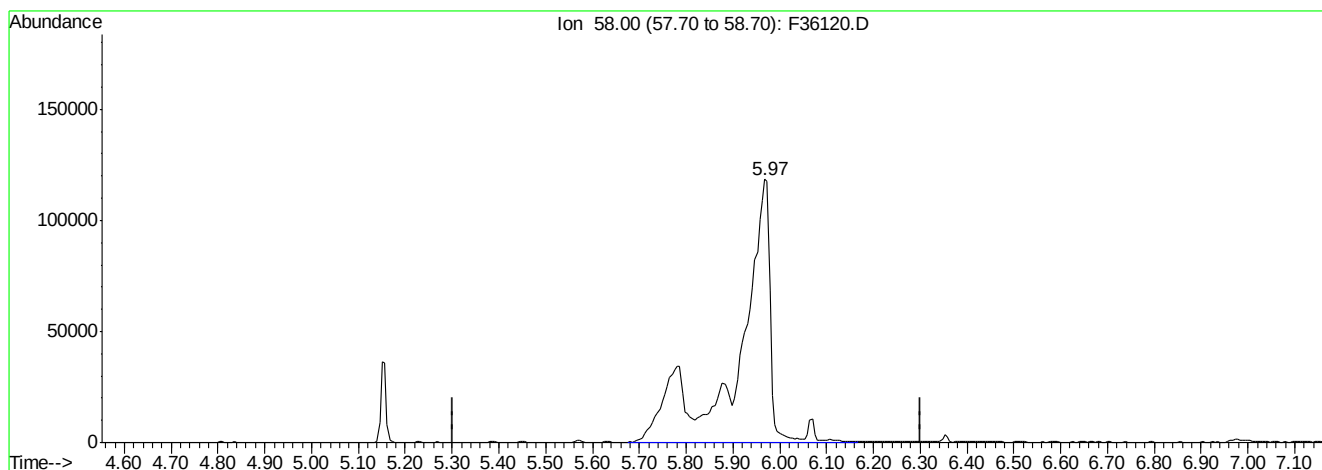
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Thu Jun 19 11:07:55 2014

Response via : Multiple Level Calibration



(115) A,A-Dimethylphenethylamine (t)

5.97min 45.62ppb m

response 575809

Ion	Exp%	Act%
58.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF5702\F36120.D

Vial: 4

Acq On : 18 Jun 2014 9:22 pm

Operator: ashleyd

Sample : icc5702-50

Inst : MSF

Misc : op74333,ef5702

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Jun 19 10:05 2014

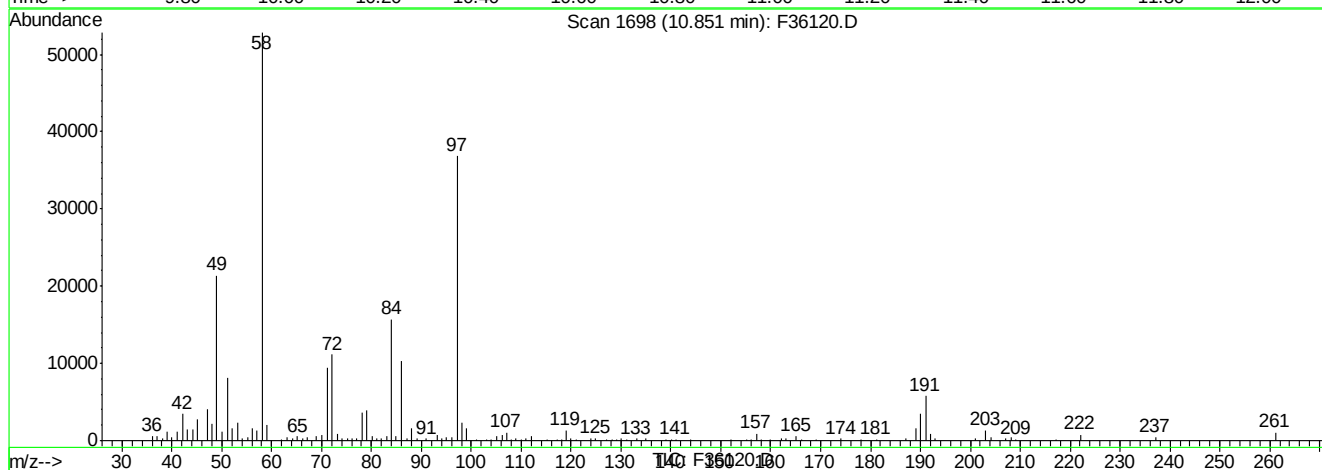
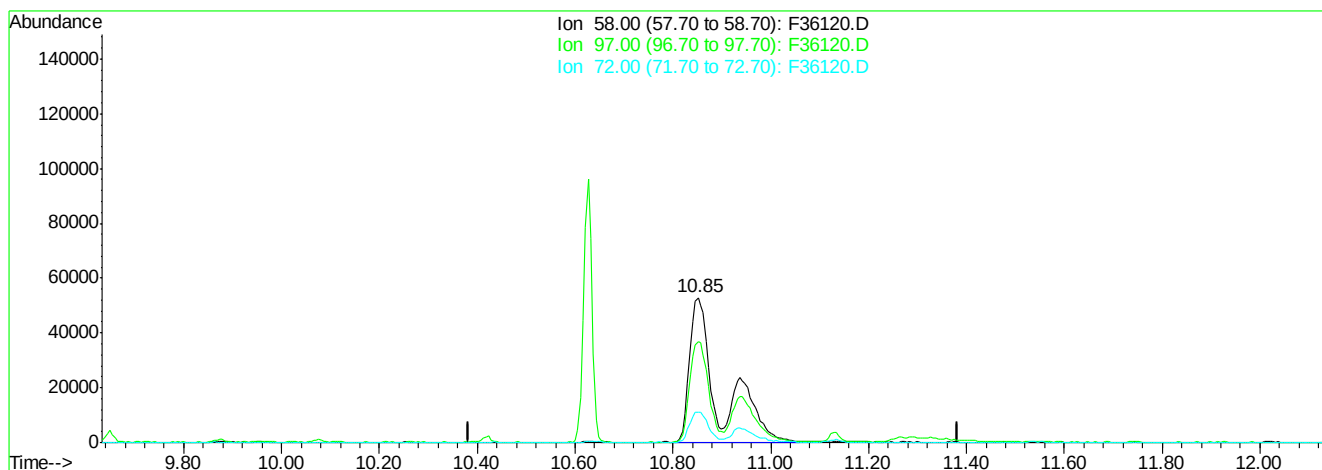
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Thu Jun 19 11:07:55 2014

Response via : Multiple Level Calibration



(145) Methapyriline (t)

10.85min 55.77ppb m

response 224107

Ion	Exp%	Act%
58.00	100	100
97.00	68.00	69.75
72.00	20.80	21.07
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5702\F36121.D

Vial: 5

Acq On : 18 Jun 2014 9:50 pm

Operator: ashleyd

Sample : ic5702-25

Inst : MSF

Misc : op74333,ef5702

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Jun 19 09:35:09 2014

Quant Results File: MFAP5692.RES

Quant Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Thu Jun 19 09:04:43 2014

Response via : Initial Calibration

DataAcq Meth : MF5692

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.86	152	150402	40.00	ppb	0.00
24) Naphthalene-d8	5.79	136	545918	40.00	ppb	0.00
47) Acenaphthene-d10	7.26	164	324483	40.00	ppb	0.00
69) Phenanthrene-d10	9.21	188	522946	40.00	ppb	-0.02
83) Chrysene-d12	14.55	240	515039	40.00	ppb	-0.01
92) Perylene-d12	17.61	264	444881	40.00	ppb	-0.02
102) 1,4-Dichlorobenzene-d4A	4.86	152	150402	40.00	ppb	0.00
112) Naphthalene-d8A	5.79	136	545918	40.00	ppb	0.00
121) Acenaphthene-d10A	7.26	164	324483	40.00	ppb	0.00
132) Phenanthrene-d10A	9.21	188	522946	40.00	ppb	-0.02
147) Chrysene-d12A	14.55	240	515039	40.00	ppb	-0.01
155) Perylene-d12A	17.61	264	444881	40.00	ppb	-0.02
159) 1,4-Dichlorobenzene-d4b	4.86	152	150402	40.00	ppb	0.00
161) Naphthalene-d8b	5.79	136	545918	40.00	ppb	0.00
163) Acenaphthene-d10b	7.26	164	324483	40.00	ppb	0.00
165) Phenanthrene-d10b	9.21	188	522946	40.00	ppb	-0.02
167) Chrysene-d12b	14.55	240	515039	40.00	ppb	-0.01
169) 1,4-Dichlorobenzene-d4c	4.86	152	150402	40.00	ppb	0.00
171) Naphthalene-d8c	5.79	136	545918	40.00	ppb	0.00
176) Chrysene-d12c	14.55	240	515039	40.00	ppb	-0.01
178) Naphthalene-d8a	5.79	136	545918	40.00	ppb	-0.02

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
8) Phenol-d5	0.00	99	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
25) Nitrobenzene-d5	0.00	82	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.00	172	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
85) Terphenyl-d14	0.00	244	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	

Target Compounds

						Qvalue
103) 2-Picoline	3.41	93	140743	25.65	ppb	99
104) Pentachloroethane	4.65	167	51453	25.96	ppb	91
105) Methyl methanesulfonate	3.74	80	65103	25.25	ppb	96
106) N-Nitrosodiethylamine	4.06	102	62520	25.87	ppb	97
107) N-Nitrosomethylethylamine	3.50	42	56705	25.42	ppb	98
108) Ethyl methanesulfonate	4.29	79	94549	26.56	ppb	99
109) N-Nitrosopyrrolidine	5.13	41	44140m	14.93	ppb	
110) N-Nitrosomorpholine	5.16	56	67870	28.55	ppb	99
111) o-Toluidine	5.18	106	190337	29.85	ppb	78
113) O,O,O-Triethyl phosphoroth	5.57	198	57273	26.14	ppb	98
114) N-Nitrosopiperidine	5.38	42	69758	25.80	ppb	96
115) A,A-Dimethylphenethylamine	5.90	58	227850	19.61	ppb	100
116) Hexachloropropene	5.87	213	73977	25.72	ppb	98

(#)=qualifier out of range (m)=manual integration

F36121.D MFAP5692.M

Thu Jun 19 11:17:23 2014

RT1

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5702\F36121.D

Vial: 5

Acq On : 18 Jun 2014 9:50 pm

Operator: ashleyd

Sample : ic5702-25

Inst : MSF

Misc : op74333,ef5702

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Jun 19 09:35:09 2014

Quant Results File: MFAP5692.RES

Quant Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Thu Jun 19 09:04:43 2014

Response via : Initial Calibration

DataAcq Meth : MF5692

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
118) N-Nitrosodi-n-butylamine	6.06	84	80845	26.81	ppb	92
119) Safrole	6.24	162	90027	26.29	ppb	99
120) Isosafrole	6.66	162	60820	26.51	ppb	99
122) Thionazin	7.82	143	31921	26.53	ppb	99
123) Tetraethyl dithiopyrophosp	8.22	322	31768	27.01	ppb	100
124) Phorate	8.41	75	146037	19.34	ppb	100
125) Phenacetin	8.44	108	130149	26.97	ppb	98
126) 1,4-Naphthoquinone	6.87	158	81022	29.88	ppb	97
127) m-Dinitrobenzene	7.00	168	37825	25.10	ppb	91
128) Pentachlorobenzene	7.44	250	87922	26.55	ppb	100
129) 1-Naphthylamine	7.55	143	150914	23.12	ppb	97
130) 2-Naphthylamine	7.65	143	218832	27.97	ppb	98
131) 5-Nitro-o-toluidine	7.88	152	76512	27.15	ppb	98
133) Disulfoton	9.23	88	106604	23.50	ppb	98
134) Dinoseb	9.23	211	56888	23.09	ppb	99
135) Dimethoate	8.66	87	101658	28.80	ppb	100
136) 4-Aminobiphenyl	8.91	169	259662	57.48	ppb	99
137) Methyl parathion	9.87	125	74264	28.91	ppb	100
138) Parathion	10.62	109	52649	26.08	ppb	98
139) Diphenylamine	8.01	169	377152	27.25	ppb	100
140) Isodrin	11.13	193	40152	26.04	ppb	94
141) Diallate	8.41	86	99114	25.90	ppb	95
142) Pentachloronitrobenzene	8.94	295	23392	52.89	ppb	97
143) Pronamide	9.03	173	115214	26.47	ppb	98
144) 4-Nitroquinoline 1-oxide	10.63	190	126487	106.31	ppb	94
145) Methapyriline	10.83	58	109803	29.38	ppb	96
146) sym-Trinitrobenzene	8.38	213	22038	23.39	ppb	# 75
148) Aramite	12.34	185	21307	49.96	ppb	96
149) p-(Dimethylamine)azobenzen	12.62	120	120929	25.59	ppb	99
151) Famphur	13.30	218	686402	277.94	ppb	96
152) 2-Acetylaminofluorene	13.91	181	161924	24.43	ppb	99
153) 3,3'-Dimethylbenzidine	13.37	212	107929	112.47	ppb	100
154) Chlorobenzilate	12.76	251	107617	25.88	ppb	97
156) 4,4-Methylene-bis-(2-chlor	14.58	266	34345	33.77	ppb	99
157) 3-Methylcholanthrene	18.21	268	157349	25.26	ppb	99
158) Hexachlorophene	17.34	196	12275	28.03	ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 F36121.D MFAP5692.M Thu Jun 19 11:17:23 2014 RT1

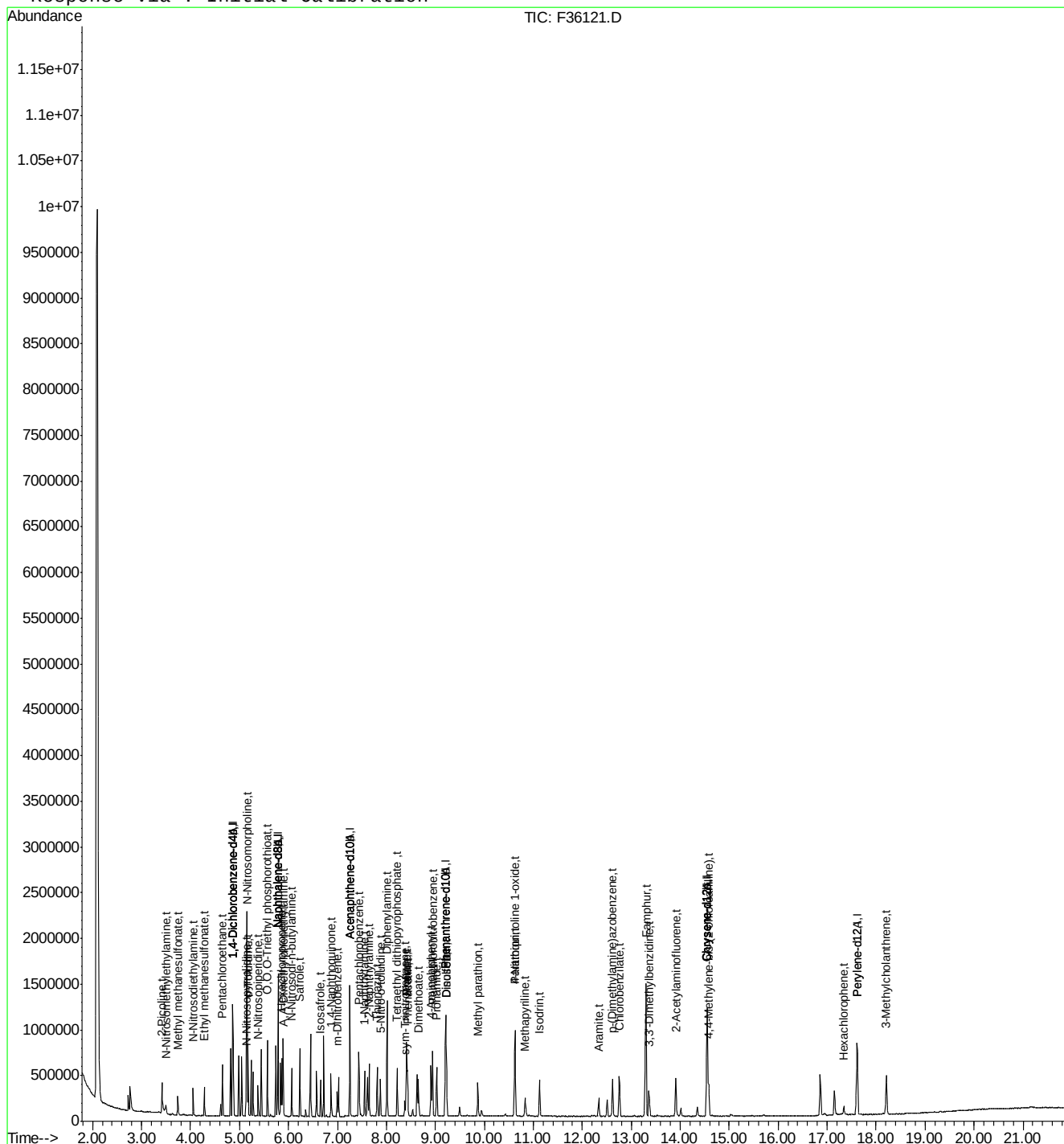
Quantitation Report (QT Reviewed)

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Data File   : C:\MSDCHEM\1\DATA\EF5702\F36121.D
Acq On      : 18 Jun 2014    9:50 pm
Sample      : ic5702-25
Misc        : op74333,ef5702
MS Integration Params: LSCINT.P
Quant Time  : Jun 19 11:14 2014      Ou
```

Vial: 5
Operator: ashleyd
Inst : MSF
Multiplr: 1.00

Quant Results File: MFAP5692.RES

Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 19 11:07:55 2014
Response via : Initial Calibration



F36121.D MFAP5692.M

Thu Jun 19 11:17:23 2014

RT1

Page 3

Manual Integration Approval Summary

Sample Number: EF5702-IC5702

Method: SW846 8270D

Lab FileID: F36121.D

Analyst approved: 06/20/14 12:57 Kristi Schollenberger

Injection Time: 06/18/14 21:50

Supervisor approved: 06/24/14 11:57 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
N-Nitrosopyrrolidine	930-55-2		5.13	Overlapping peak

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF5702\F36121.D

Vial: 5

Acq On : 18 Jun 2014 9:50 pm

Operator: ashleyd

Sample : ic5702-25

Inst : MSF

Misc : op74333,ef5702

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Jun 19 9:36 2014

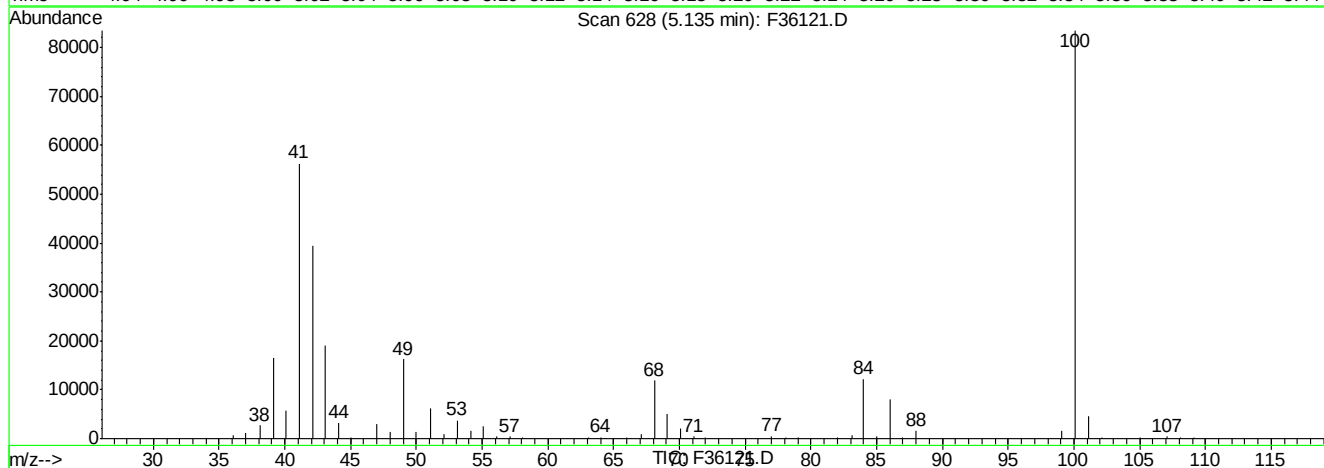
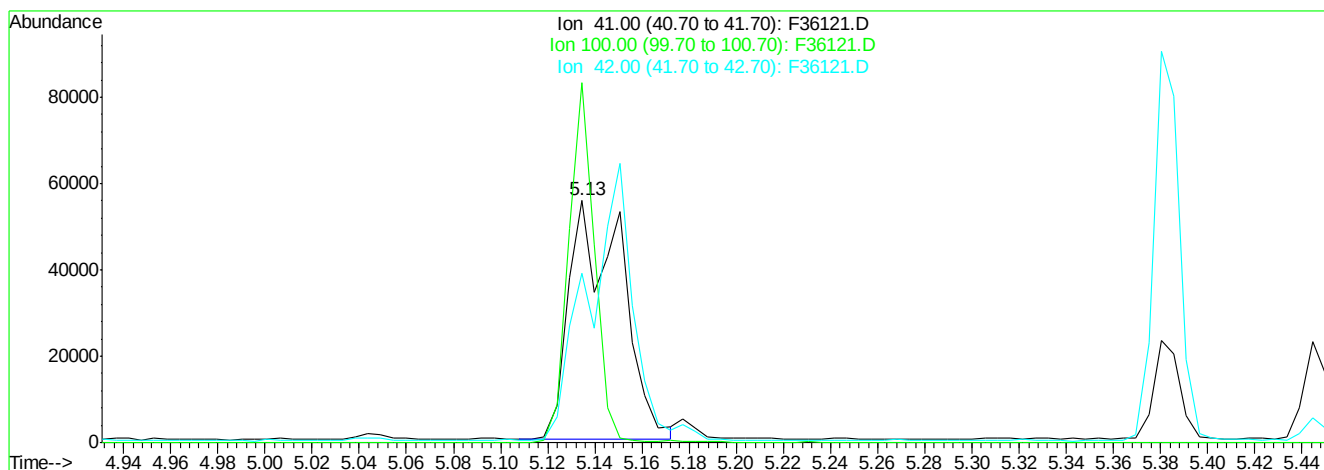
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Thu Jun 19 09:48:59 2014

Response via : Multiple Level Calibration



(109) N-Nitrosopyrrolidine (t)

5.13min 29.17ppb

response 86259

Ion	Exp%	Act%
41.00	100	100
100.00	87.50	154.13#
42.00	102.50	69.74#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF5702\F36121.D

Vial: 5

Acq On : 18 Jun 2014 9:50 pm

Operator: ashleyd

Sample : ic5702-25

Inst : MSF

Misc : op74333,ef5702

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Jun 19 11:14 2014

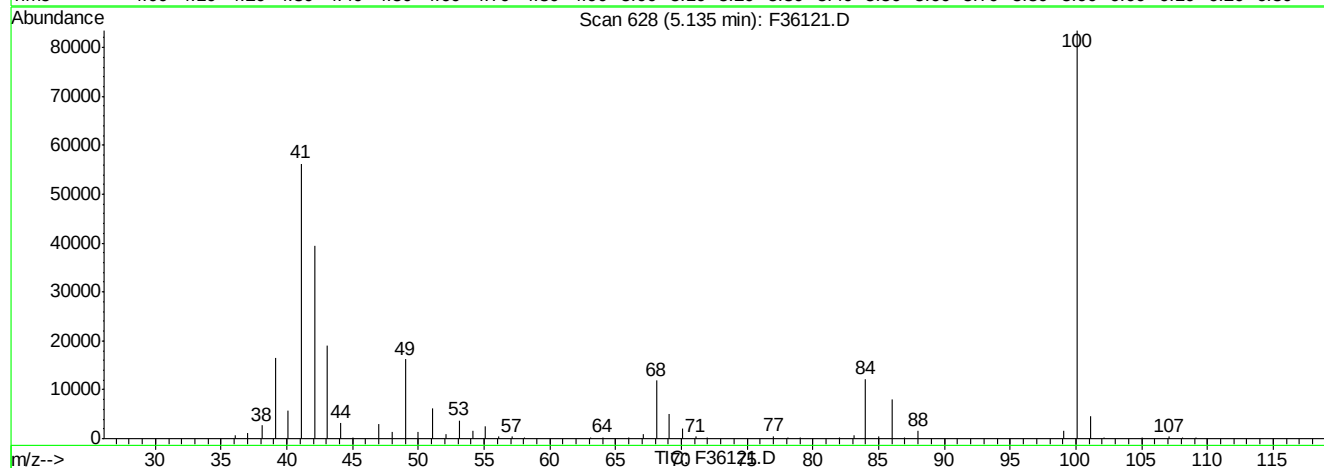
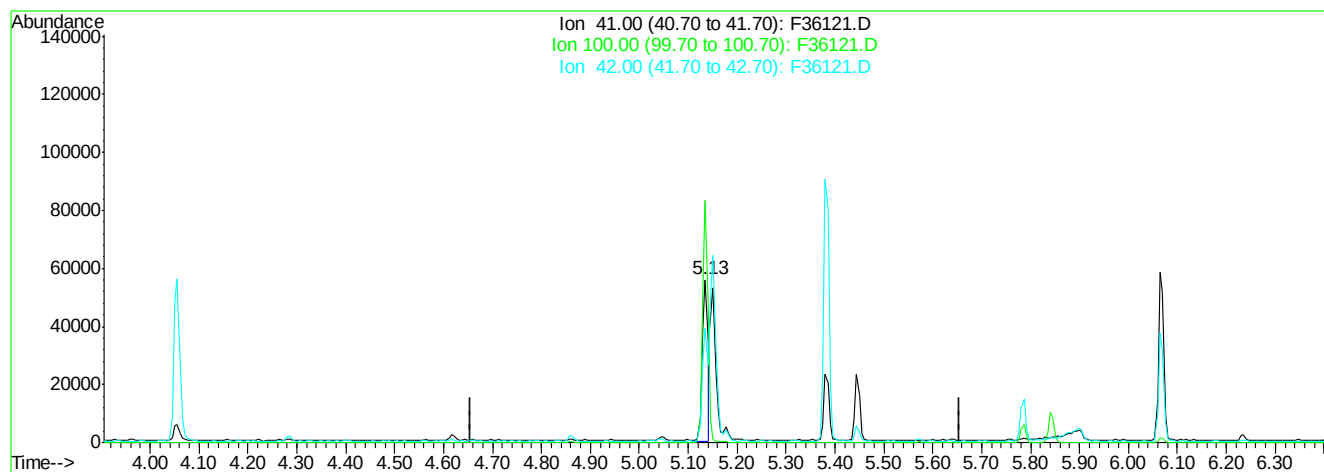
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Thu Jun 19 11:07:55 2014

Response via : Multiple Level Calibration



(109) N-Nitrosopyrrolidine (t)

5.13min 14.93ppb m

response 44140

Ion	Exp%	Act%
41.00	100	100
100.00	87.50	148.55#
42.00	102.50	70.04#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5702\F36122.D

Vial: 6

Acq On : 18 Jun 2014 10:19 pm

Operator: ashleyd

Sample : ic5702-10

Inst : MSF

Misc : op74333,ef5702

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Jun 19 09:38:06 2014

Quant Results File: MFAP5692.RES

Quant Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Thu Jun 19 09:04:43 2014

Response via : Initial Calibration

DataAcq Meth : MF5692

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.86	152	141550	40.00	ppb	0.00
24) Naphthalene-d8	5.79	136	518626	40.00	ppb	0.00
47) Acenaphthene-d10	7.26	164	308281	40.00	ppb	0.00
69) Phenanthrene-d10	9.21	188	501040	40.00	ppb	-0.02
83) Chrysene-d12	14.55	240	501736	40.00	ppb	-0.01
92) Perylene-d12	17.61	264	435391	40.00	ppb	-0.02
102) 1,4-Dichlorobenzene-d4A	4.86	152	141550	40.00	ppb	0.00
112) Naphthalene-d8A	5.79	136	518626	40.00	ppb	0.00
121) Acenaphthene-d10A	7.26	164	308281	40.00	ppb	0.00
132) Phenanthrene-d10A	9.21	188	501040	40.00	ppb	-0.02
147) Chrysene-d12A	14.55	240	501736	40.00	ppb	-0.01
155) Perylene-d12A	17.61	264	435391	40.00	ppb	-0.02
159) 1,4-Dichlorobenzene-d4b	4.86	152	141550	40.00	ppb	0.00
161) Naphthalene-d8b	5.79	136	518626	40.00	ppb	0.00
163) Acenaphthene-d10b	7.26	164	308281	40.00	ppb	0.00
165) Phenanthrene-d10b	9.21	188	501040	40.00	ppb	-0.02
167) Chrysene-d12b	14.55	240	501736	40.00	ppb	-0.01
169) 1,4-Dichlorobenzene-d4c	4.86	152	141550	40.00	ppb	0.00
171) Naphthalene-d8c	5.79	136	518626	40.00	ppb	0.00
176) Chrysene-d12c	14.55	240	501736	40.00	ppb	-0.01
178) Naphthalene-d8a	5.79	136	518626	40.00	ppb	-0.02

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
8) Phenol-d5	0.00	99	0d	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
25) Nitrobenzene-d5	0.00	82	0d	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.00	172	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
85) Terphenyl-d14	0.00	244	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	

Target Compounds

						Qvalue
103) 2-Picoline	3.42	93	59810	11.58	ppb	99
104) Pentachloroethane	4.65	167	21570	11.56	ppb	95
105) Methyl methanesulfonate	3.75	80	28740	11.84	ppb	98
106) N-Nitrosodiethylamine	4.06	102	25789	11.34	ppb	96
107) N-Nitrosomethylethylamine	3.50	42	24333	11.59	ppb	98
108) Ethyl methanesulfonate	4.29	79	39847	11.89	ppb	96
109) N-Nitrosopyrrolidine	5.13	41	20945m	7.53	ppb	
110) N-Nitrosomorpholine	5.16	56	30247	13.52	ppb	98
111) o-Toluidine	5.18	106	81846	13.64	ppb	90
113) O,O,O-Triethyl phosphoroth	5.57	198	24714	11.87	ppb	93
114) N-Nitrosopiperidine	5.38	42	29102	11.33	ppb	95
115) A,A-Dimethylphenethylamine	5.83	58	115547m	10.47	ppb	
116) Hexachloropropene	5.87	213	30790	11.27	ppb	98

(#)=qualifier out of range (m)=manual integration

F36122.D MFAP5692.M

Thu Jun 19 11:17:52 2014

RT1

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5702\F36122.D

Vial: 6

Acq On : 18 Jun 2014 10:19 pm

Operator: ashleyd

Sample : ic5702-10

Inst : MSF

Misc : op74333,ef5702

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Jun 19 09:38:06 2014

Quant Results File: MFAP5692.RES

Quant Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Thu Jun 19 09:04:43 2014

Response via : Initial Calibration

DataAcq Meth : MF5692

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
118) N-Nitrosodi-n-butylamine	6.06	84	35187	12.28	ppb	93
119) Safrole	6.24	162	38410	11.81	ppb	97
120) Isosafrole	6.66	162	25991	11.92	ppb	98
122) Thionazin	7.81	143	14158	12.38	ppb	97
123) Tetraethyl dithiopyrophosp	8.22	322	14153	12.67	ppb	100
124) Phorate	8.41	75	65804	9.17	ppb	100
125) Phenacetin	8.43	108	55879	12.19	ppb	98
126) 1,4-Naphthoquinone	6.87	158	33213	12.89	ppb	97
127) m-Dinitrobenzene	6.99	168	15124	10.56	ppb	99
128) Pentachlorobenzene	7.43	250	37653	11.97	ppb	99
129) 1-Naphthylamine	7.55	143	78254	12.62	ppb	95
130) 2-Naphthylamine	7.64	143	98191	13.21	ppb	99
131) 5-Nitro-o-toluidine	7.88	152	31853	11.90	ppb	98
133) Disulfoton	9.22	88	57551	13.24	ppb	93
134) Dinoseb	9.23	211	21284	9.02	ppb	98
135) Dimethoate	8.65	87	43347	12.82	ppb	98
136) 4-Aminobiphenyl	8.91	169	112048	25.89	ppb	97
137) Methyl parathion	9.87	125	30719	12.48	ppb	98
138) Parathion	10.62	109	22147	11.45	ppb	98
139) Diphenylamine	8.01	169	164016	12.37	ppb	99
140) Isodrin	11.13	193	17274	11.69	ppb	96
141) Diallate	8.40	86	41845	11.41	ppb	82
142) Pentachloronitrobenzene	8.94	295	10131	23.91	ppb	95
143) Pronamide	9.02	173	48615	11.66	ppb	100
144) 4-Nitroquinoline 1-oxide	10.62	190	44466	39.01	ppb	98
145) Methapyriline	10.83	58	65382	18.26	ppb	98
146) sym-Trinitrobenzene	8.38	213	8088	8.96	ppb	# 1
148) Aramite	12.33	185	8899	21.42	ppb	96
149) p-(Dimethylamine)azobenzen	12.61	120	49926	10.84	ppb	99
151) Famphur	13.29	218	367057	152.57	ppb	97
152) 2-Acetylaminofluorene	13.90	181	68954	10.68	ppb	98
153) 3,3'-Dimethylbenzidine	13.36	212	74463	79.66	ppb	98
154) Chlorobenzilate	12.76	251	46099	11.38	ppb	91
156) 4,4-Methylene-bis-(2-chlor	14.58	266	15660	15.73	ppb	93
157) 3-Methylcholanthrene	18.21	268	72054	11.82	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 F36122.D MFAP5692.M Thu Jun 19 11:17:52 2014 RT1

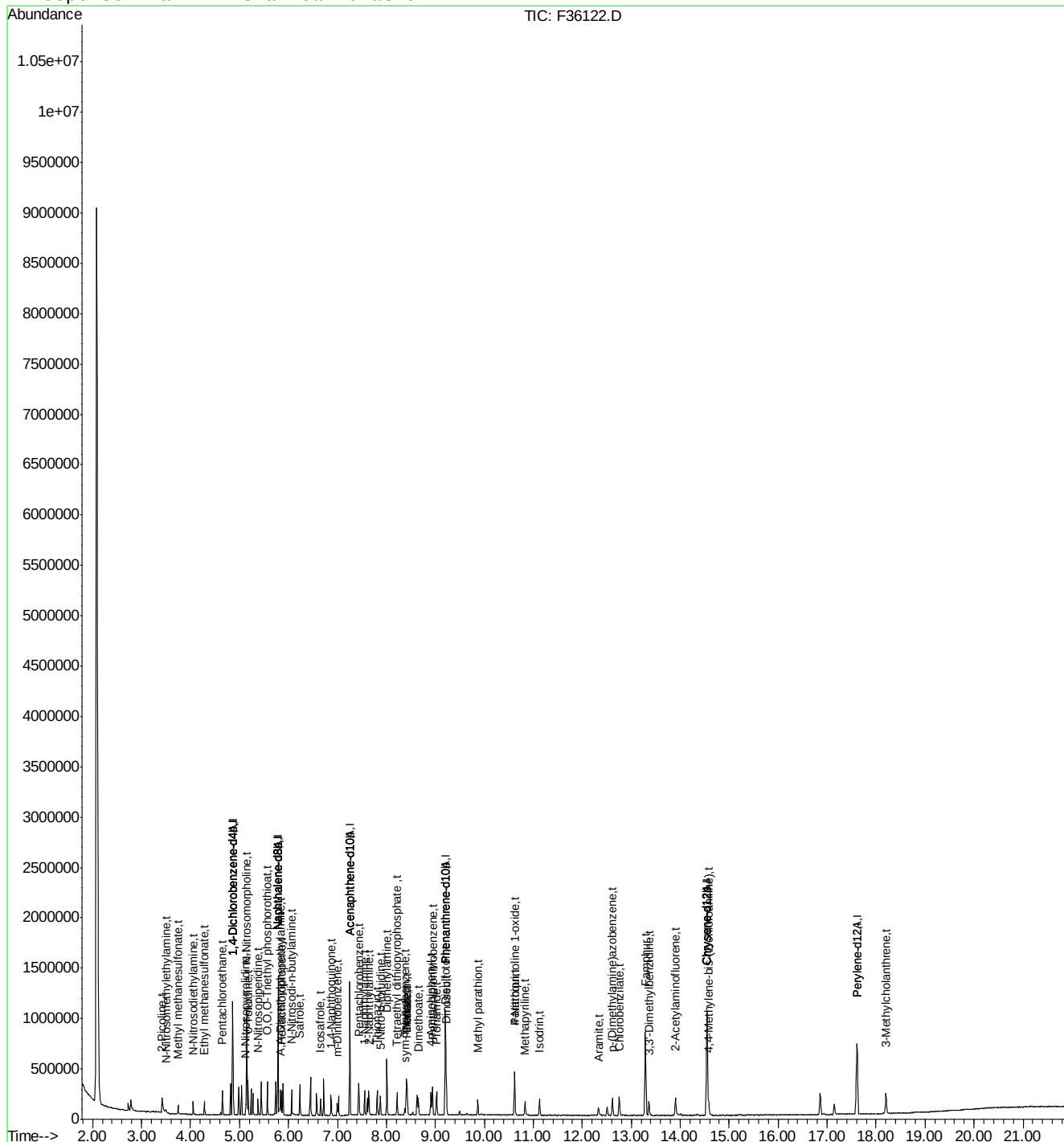
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5702\F36122.D
Acq On : 18 Jun 2014 10:19 pm
Sample : ic5702-10
Misc : op74333,ef5702
MS Integration Params: LSCINT.P
Quant Time: Jun 19 10:07 2014

Vial: 6
Operator: ashleyd
Inst : MSF
Multiplr: 1.00

Quant Results File: MFAP5692.RES

Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 19 11:07:55 2014
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: EF5702-IC5702

Method: SW846 8270D

Lab FileID: F36122.D

Analyst approved: 06/20/14 12:57 Kristi Schollenberger

Injection Time: 06/18/14 22:19

Supervisor approved: 06/24/14 11:57 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
N-Nitrosopyrrolidine	930-55-2		5.13	Overlapping peak
A,A-Dimethylphenethylamine	122-09-8		5.83	Split peak

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF5702\F36122.D

Vial: 6

Acq On : 18 Jun 2014 10:19 pm

Operator: ashleyd

Sample : ic5702-10

Inst : MSF

Misc : op74333,ef5702

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Jun 19 9:16 2014

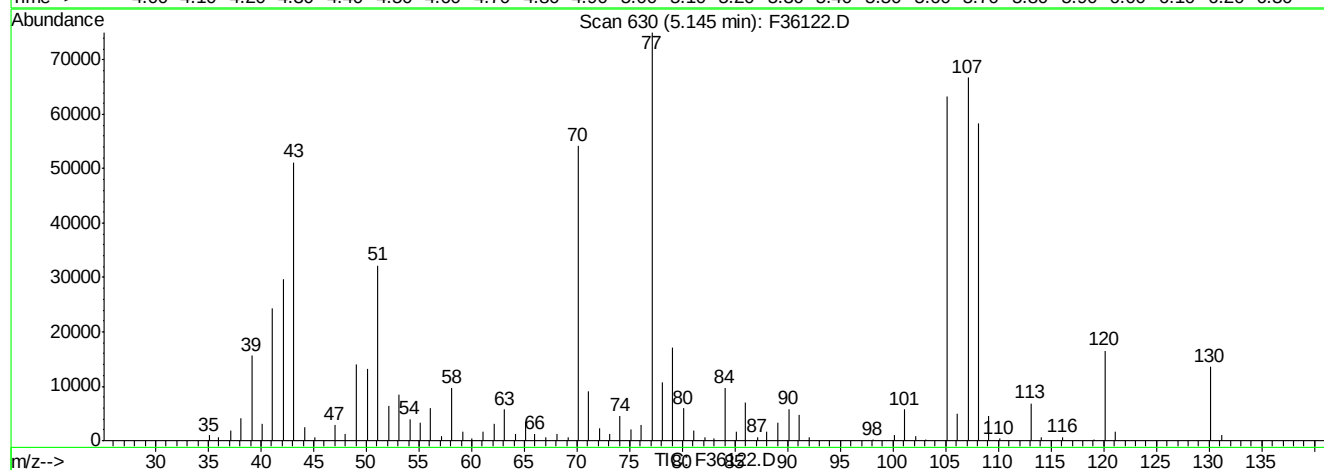
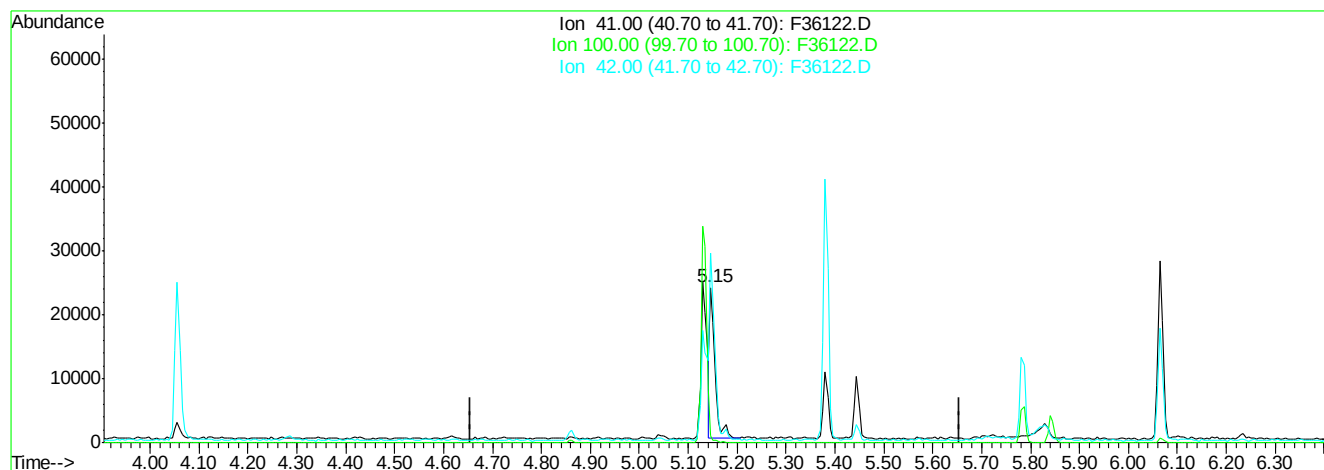
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Thu Jun 19 09:04:43 2014

Response via : Multiple Level Calibration



(109) N-Nitrosopyrrolidine (t)

5.15min 6.64ppb

response 18491

Ion	Exp%	Act%
41.00	100	100
100.00	87.50	0.00#
42.00	102.50	132.31
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF5702\F36122.D

Vial: 6

Acq On : 18 Jun 2014 10:19 pm

Operator: ashleyd

Sample : ic5702-10

Inst : MSF

Misc : op74333,ef5702

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Jun 19 9:16 2014

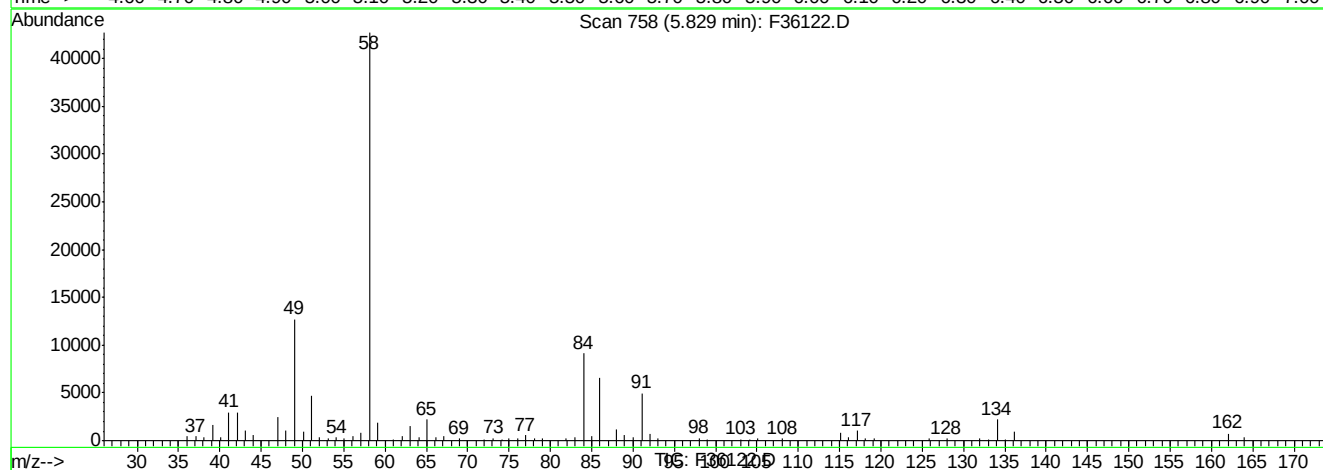
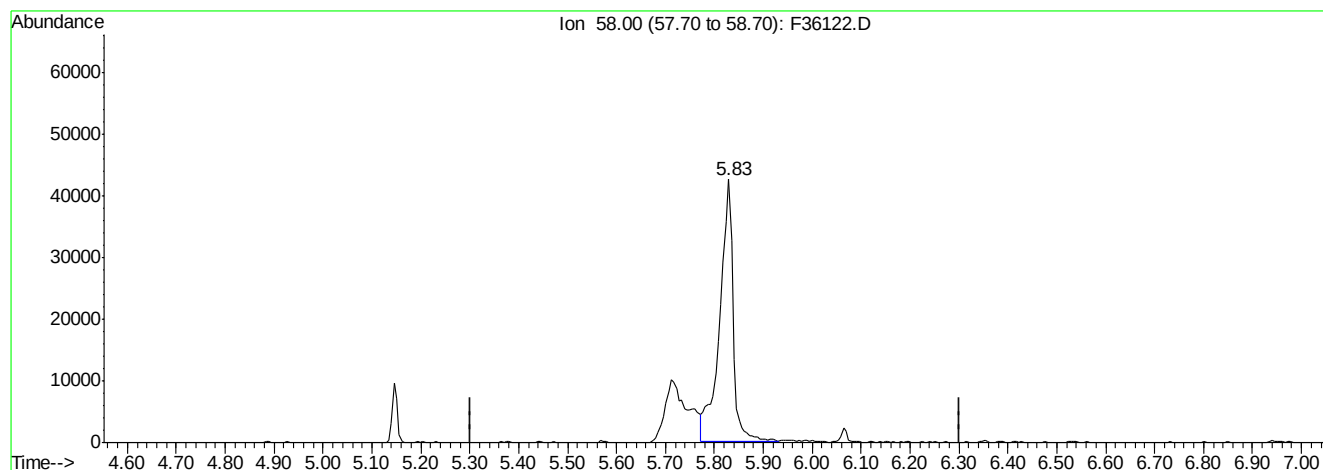
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Thu Jun 19 09:04:43 2014

Response via : Multiple Level Calibration



(115) A,A-Dimethylphenethylamine (t)

5.83min 7.31ppb

response 80683

Ion	Exp%	Act%
58.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF5702\F36122.D

Vial: 6

Acq On : 18 Jun 2014 10:19 pm

Operator: ashleyd

Sample : ic5702-10

Inst : MSF

Misc : op74333,ef5702

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Jun 19 10:07 2014

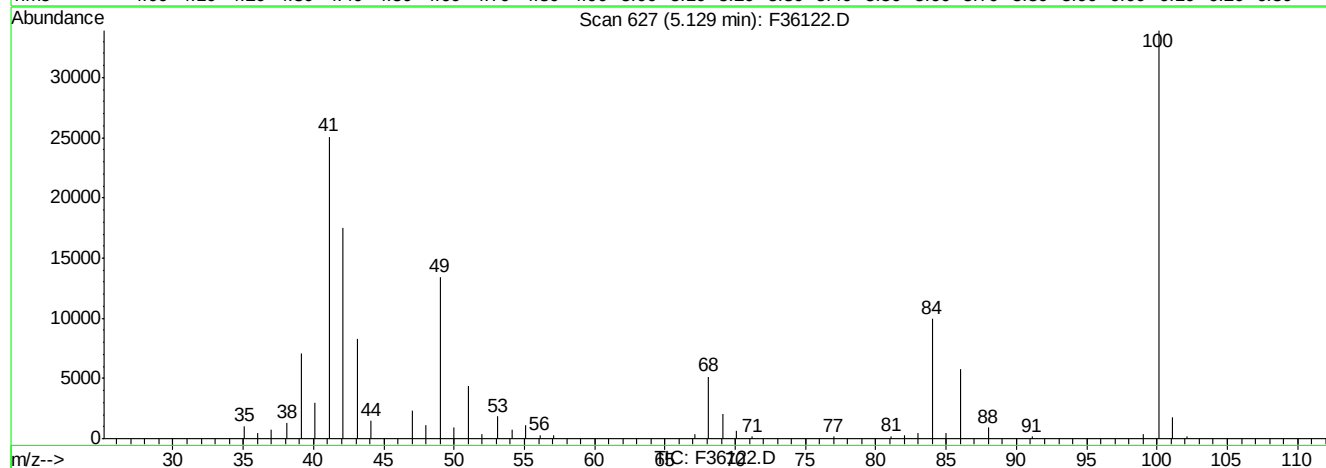
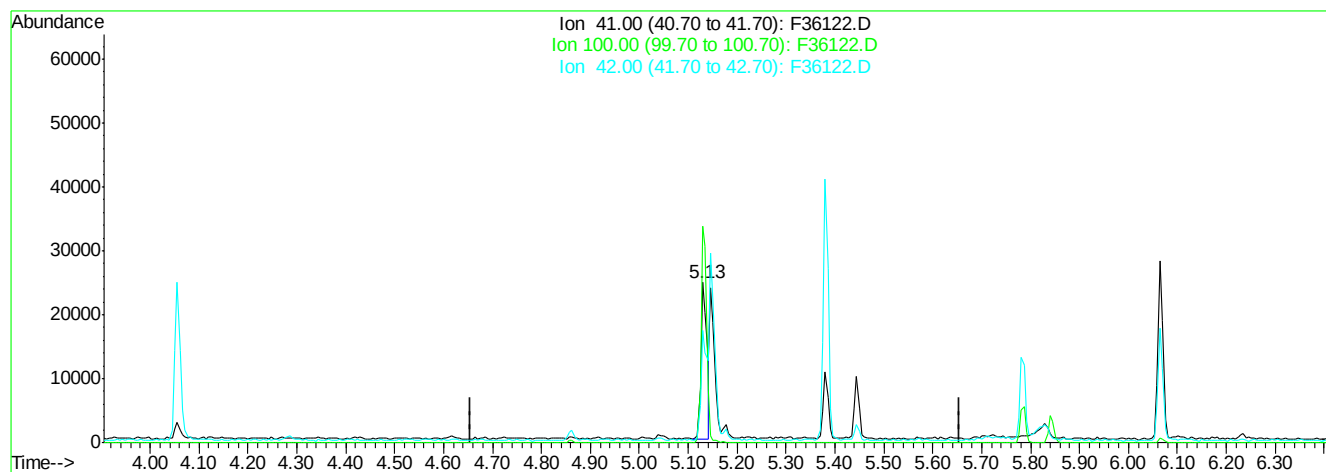
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Thu Jun 19 11:07:55 2014

Response via : Multiple Level Calibration



(109) N-Nitrosopyrrolidine (t)

5.13min 7.53ppb m

response 20945

Ion	Exp%	Act%
41.00	100	100
100.00	87.50	135.31#
42.00	102.50	69.80#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF5702\F36122.D

Vial: 6

Acq On : 18 Jun 2014 10:19 pm

Operator: ashleyd

Sample : ic5702-10

Inst : MSF

Misc : op74333,ef5702

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Jun 19 10:07 2014

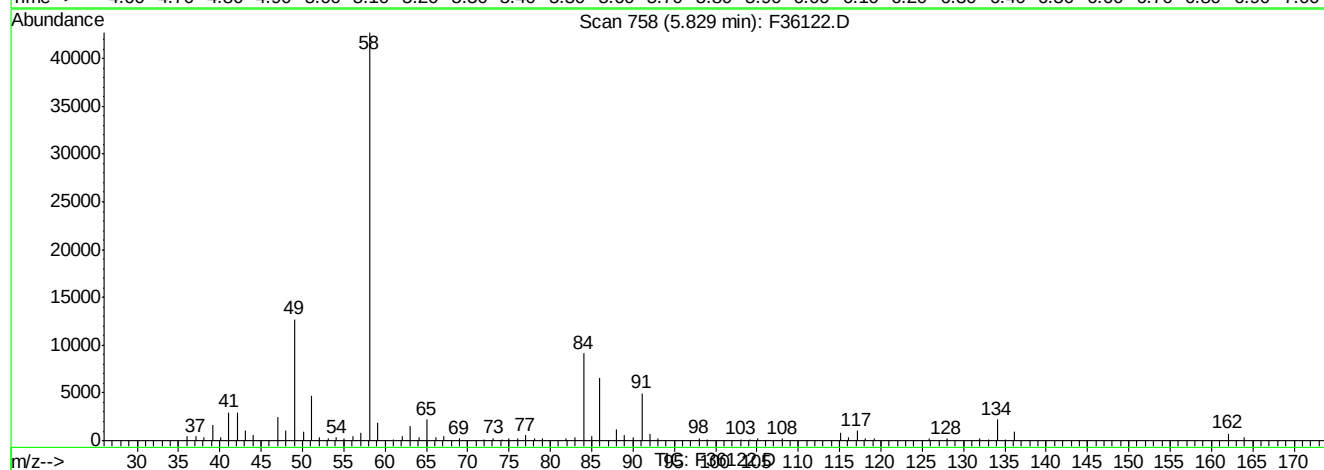
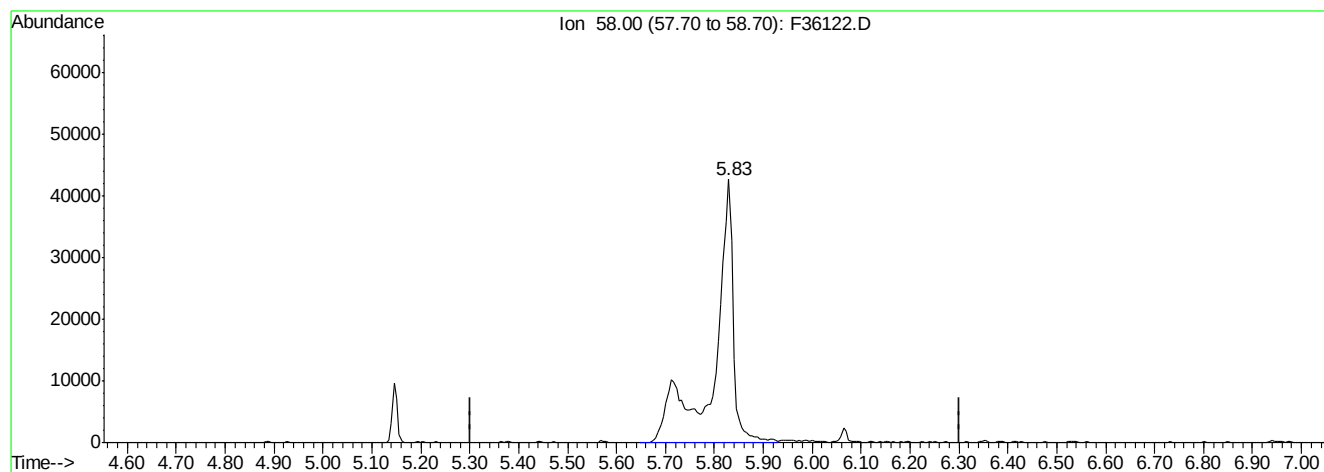
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Thu Jun 19 11:07:55 2014

Response via : Multiple Level Calibration



(115) A,A-Dimethylphenethylamine (t)

5.83min 10.47ppb m

response 115547

Ion	Exp%	Act%
58.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5702\F36123.D

Vial: 7

Acq On : 18 Jun 2014 10:47 pm

Operator: ashleyd

Sample : ic5702-5

Inst : MSF

Misc : op74333,ef5702

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Jun 19 09:39:39 2014

Quant Results File: MFAP5692.RES

Quant Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Thu Jun 19 09:04:43 2014

Response via : Initial Calibration

DataAcq Meth : MF5692

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.86	152	133321	40.00	ppb	0.00
24) Naphthalene-d8	5.79	136	483967	40.00	ppb	0.00
47) Acenaphthene-d10	7.26	164	284698	40.00	ppb	0.00
69) Phenanthrene-d10	9.21	188	463584	40.00	ppb	-0.02
83) Chrysene-d12	14.55	240	471402	40.00	ppb	-0.01
92) Perylene-d12	17.61	264	422971	40.00	ppb	-0.02
102) 1,4-Dichlorobenzene-d4A	4.86	152	133321	40.00	ppb	0.00
112) Naphthalene-d8A	5.79	136	483967	40.00	ppb	0.00
121) Acenaphthene-d10A	7.26	164	284698	40.00	ppb	0.00
132) Phenanthrene-d10A	9.21	188	463584	40.00	ppb	-0.02
147) Chrysene-d12A	14.55	240	471402	40.00	ppb	-0.01
155) Perylene-d12A	17.61	264	422971	40.00	ppb	-0.02
159) 1,4-Dichlorobenzene-d4b	4.86	152	133321	40.00	ppb	0.00
161) Naphthalene-d8b	5.79	136	483967	40.00	ppb	0.00
163) Acenaphthene-d10b	7.26	164	284698	40.00	ppb	0.00
165) Phenanthrene-d10b	9.21	188	463584	40.00	ppb	-0.02
167) Chrysene-d12b	14.55	240	471402	40.00	ppb	-0.01
169) 1,4-Dichlorobenzene-d4c	4.86	152	133321	40.00	ppb	0.00
171) Naphthalene-d8c	5.79	136	483967	40.00	ppb	0.00
176) Chrysene-d12c	14.55	240	471402	40.00	ppb	-0.01
178) Naphthalene-d8a	5.79	136	483967	40.00	ppb	-0.02

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
8) Phenol-d5	0.00	99	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
25) Nitrobenzene-d5	0.00	82	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.00	172	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
85) Terphenyl-d14	0.00	244	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	

Target Compounds

						Qvalue
103) 2-Picoline	3.43	93	25751	5.30	ppb	94
104) Pentachloroethane	4.65	167	9216	5.24	ppb	91
105) Methyl methanesulfonate	3.75	80	12110	5.30	ppb	96
106) N-Nitrosodiethylamine	4.06	102	11265	5.26	ppb	85
107) N-Nitrosomethylethylamine	3.51	42	10297	5.21	ppb	97
108) Ethyl methanesulfonate	4.29	79	17406	5.52	ppb	94
109) N-Nitrosopyrrolidine	5.13	41	8665m	3.31	ppb	
110) N-Nitrosomorpholine	5.16	56	13888	6.59	ppb	92
111) o-Toluidine	5.18	106	36284	6.42	ppb	86
113) O,O,O-Triethyl phosphoroth	5.57	198	10773	5.55	ppb	86
114) N-Nitrosopiperidine	5.38	42	12354	5.15	ppb	95
115) A,A-Dimethylphenethylamine	5.79	58	46409m	4.50	ppb	
116) Hexachloropropene	5.87	213	13635	5.35	ppb	95

(#)=qualifier out of range (m)=manual integration

F36123.D MFAP5692.M

Thu Jun 19 11:19:00 2014

RT1

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5702\F36123.D

Vial: 7

Acq On : 18 Jun 2014 10:47 pm

Operator: ashleyd

Sample : ic5702-5

Inst : MSF

Misc : op74333,ef5702

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Jun 19 09:39:39 2014

Quant Results File: MFAP5692.RES

Quant Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Thu Jun 19 09:04:43 2014

Response via : Initial Calibration

DataAcq Meth : MF5692

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
118) N-Nitrosodi-n-butylamine	6.06	84	14816	5.54	ppb	95
119) Safrole	6.24	162	16285	5.36	ppb	95
120) Isosafrole	6.66	162	10422	5.12	ppb	98
122) Thionazin	7.81	143	5640	5.34	ppb	94
123) Tetraethyl dithiopyrophosp	8.22	322	6049	5.86	ppb	100
124) Phorate	8.41	75	27278	4.12	ppb	100
125) Phenacetin	8.43	108	23025	5.44	ppb	97
126) 1,4-Naphthoquinone	6.87	158	13096	5.50	ppb	94
127) m-Dinitrobenzene	6.99	168	6119	4.63	ppb	96
128) Pentachlorobenzene	7.43	250	16642	5.73	ppb	96
129) 1-Naphthylamine	7.55	143	33369	5.83	ppb	96
130) 2-Naphthylamine	7.64	143	39268	5.72	ppb	97
131) 5-Nitro-o-toluidine	7.88	152	13296	5.38	ppb	98
133) Disulfoton	9.22	88	26041	6.47	ppb	93
134) Dinoseb	9.22	211	7668	3.51	ppb	96
135) Dimethoate	8.65	87	18721	5.98	ppb	95
136) 4-Aminobiphenyl	8.91	169	48148	12.02	ppb	99
137) Methyl parathion	9.87	125	12797	5.62	ppb	99
138) Parathion	10.62	109	9543	5.33	ppb	95
139) Diphenylamine	8.01	169	70507	5.75	ppb	98
140) Isodrin	11.13	193	7687	5.62	ppb	97
141) Diallate	8.40	86	19137	5.64	ppb	86
142) Pentachloronitrobenzene	8.94	295	4380	11.17	ppb	93
143) Pronamide	9.02	173	20335	5.27	ppb	97
144) 4-Nitroquinoline 1-oxide	10.62	190	13921	13.20	ppb	93
145) Methapyriline	10.83	58	28128	8.49	ppb	100
146) sym-Trinitrobenzene	8.37	213	2568	3.07	ppb	# 62
148) Aramite	12.34	185	3729	9.55	ppb	95
149) p-(Dimethylamine)azobenzen	12.61	120	20113	4.65	ppb	91
151) Famphur	13.29	218	164511	72.78	ppb	99
152) 2-Acetylaminofluorene	13.90	181	27688	4.56	ppb	100
153) 3,3'-Dimethylbenzidine	13.36	212	39864	45.39	ppb	99
154) Chlorobenzilate	12.75	251	19678	5.17	ppb	94
156) 4,4-Methylene-bis-(2-chlor	14.58	266	6754	6.98	ppb	79
157) 3-Methylcholanthrene	18.20	268	32083	5.42	ppb	98

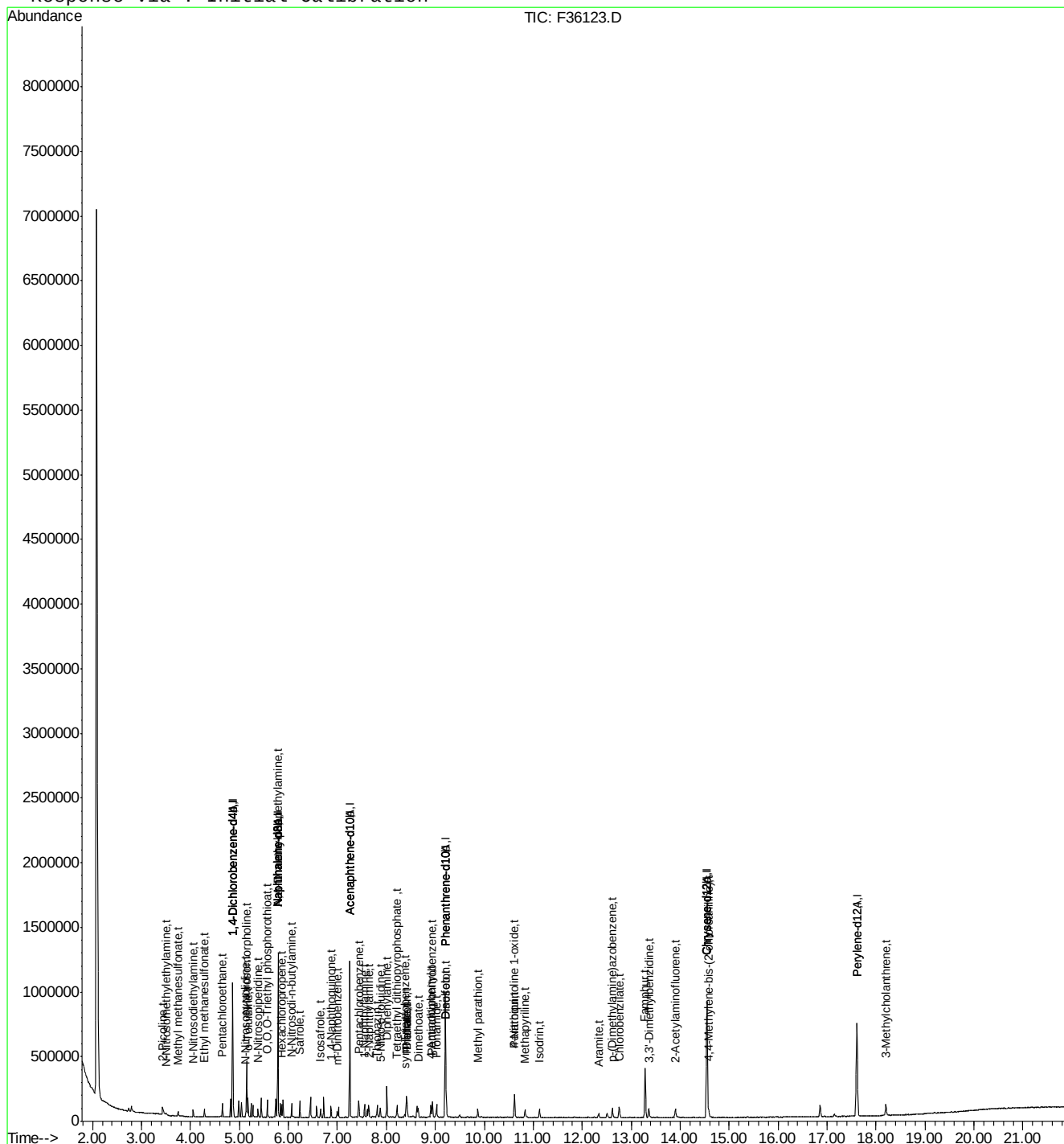
(#) = qualifier out of range (m) = manual integration (+) = signals summed
 F36123.D MFAP5692.M Thu Jun 19 11:19:00 2014 RT1

(QT Reviewed)

Vial: 7
Operator: ashleyd
Inst : MSF
Multiplr: 1.00

Quant Results File: MFAP5692.RES

Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 19 11:07:55 2014
Response via : Initial Calibration



Page 3

Manual Integration Approval Summary

Sample Number: EF5702-IC5702

Method: SW846 8270D

Lab FileID: F36123.D

Analyst approved: 06/20/14 12:57 Kristi Schollenberger

Injection Time: 06/18/14 22:47

Supervisor approved: 06/24/14 11:57 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
N-Nitrosopyrrolidine	930-55-2		5.13	Overlapping peak
A,A-Dimethylphenethylamine	122-09-8		5.79	Split peak

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF5702\F36123.D

Vial: 7

Acq On : 18 Jun 2014 10:47 pm

Operator: ashleyd

Sample : ic5702-5

Inst : MSF

Misc : op74333,ef5702

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Jun 19 9:22 2014

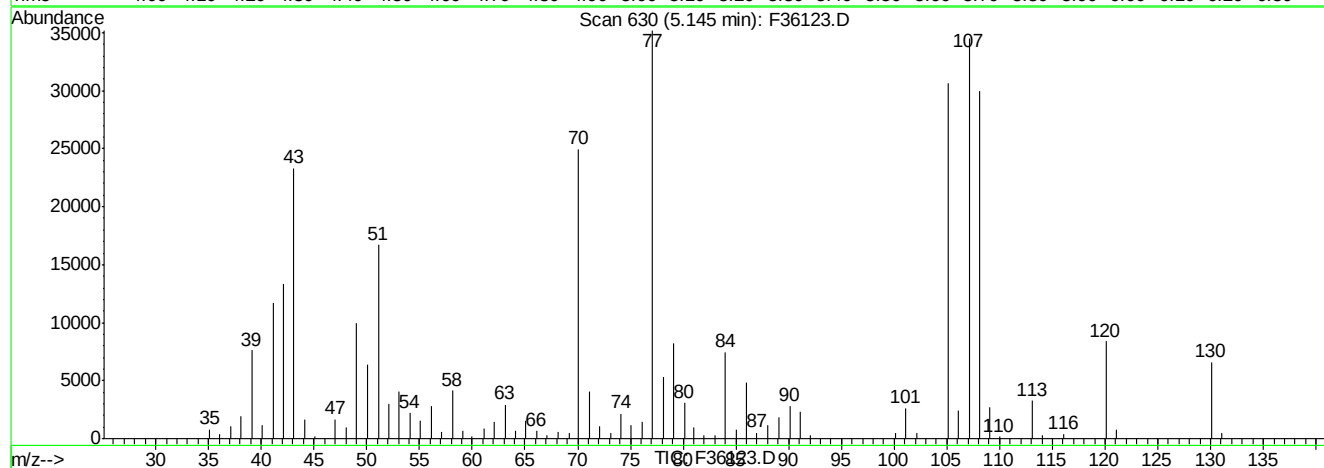
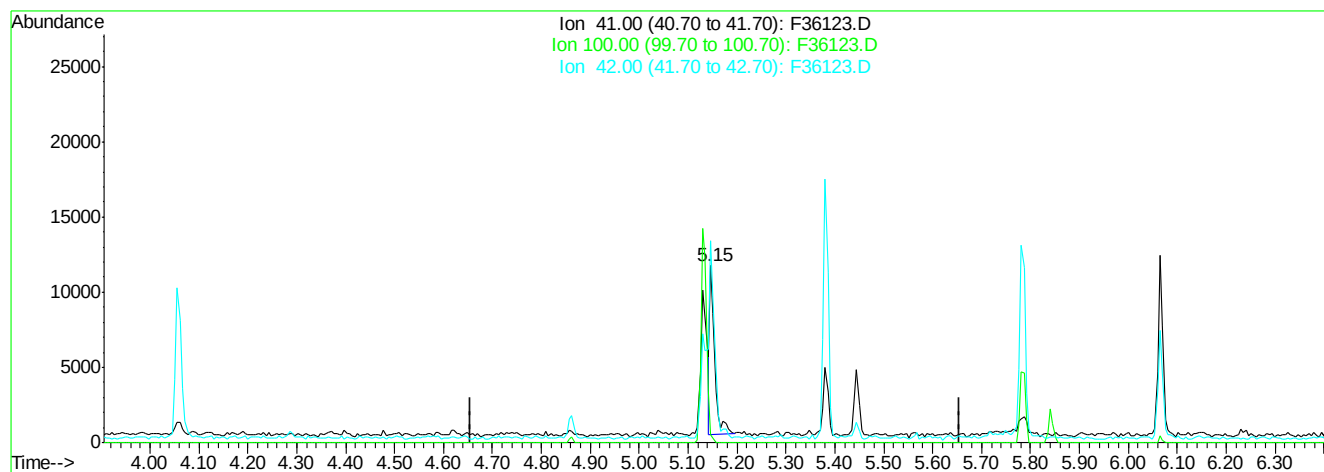
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Thu Jun 19 09:04:43 2014

Response via : Multiple Level Calibration



(109) N-Nitrosopyrrolidine (t)

5.15min 3.12ppb

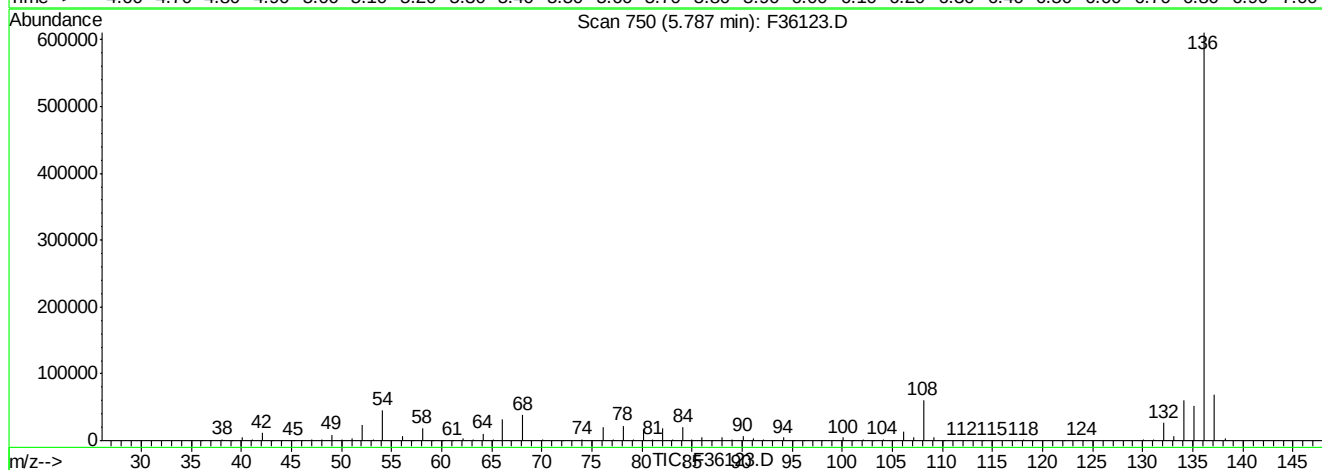
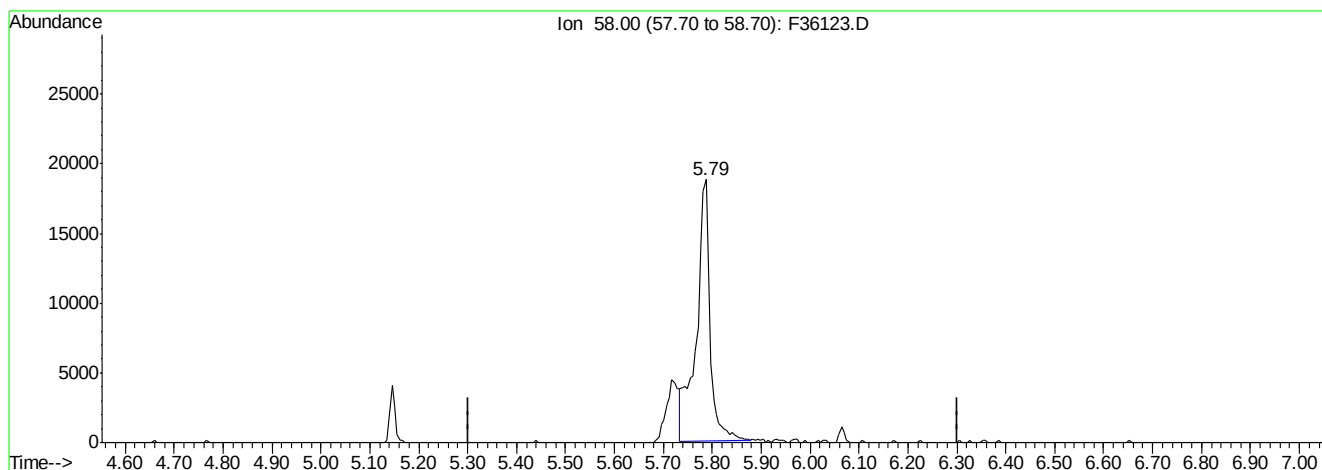
response 8168

Ion	Exp%	Act%
41.00	100	100
100.00	87.50	0.00#
42.00	102.50	117.45
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF5702\F36123.D Vial: 7
Acq On : 18 Jun 2014 10:47 pm Operator: ashleyd
Sample : ic5702-5 Inst : MSF
Misc : op74333,ef5702 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 19 9:22 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 19 09:04:43 2014
Response via : Multiple Level Calibration



(115) A,A-Dimethylphenethylamine (t)

5.79min 3.56ppb

response 36725

Ion	Exp%	Act%
58.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF5702\F36123.D

Vial: 7

Acq On : 18 Jun 2014 10:47 pm

Operator: ashleyd

Sample : ic5702-5

Inst : MSF

Misc : op74333,ef5702

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Jun 19 10:07 2014

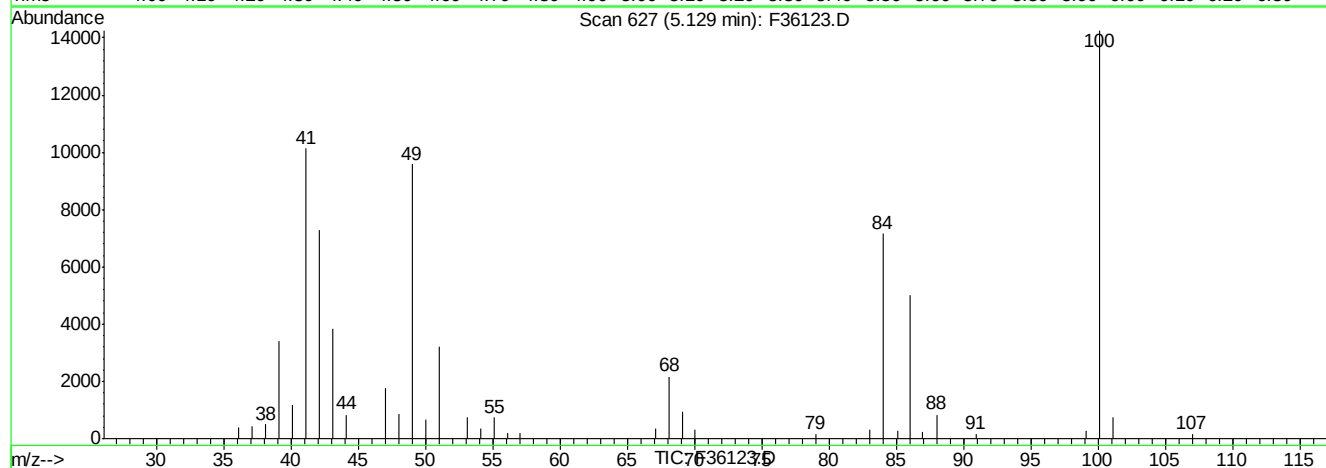
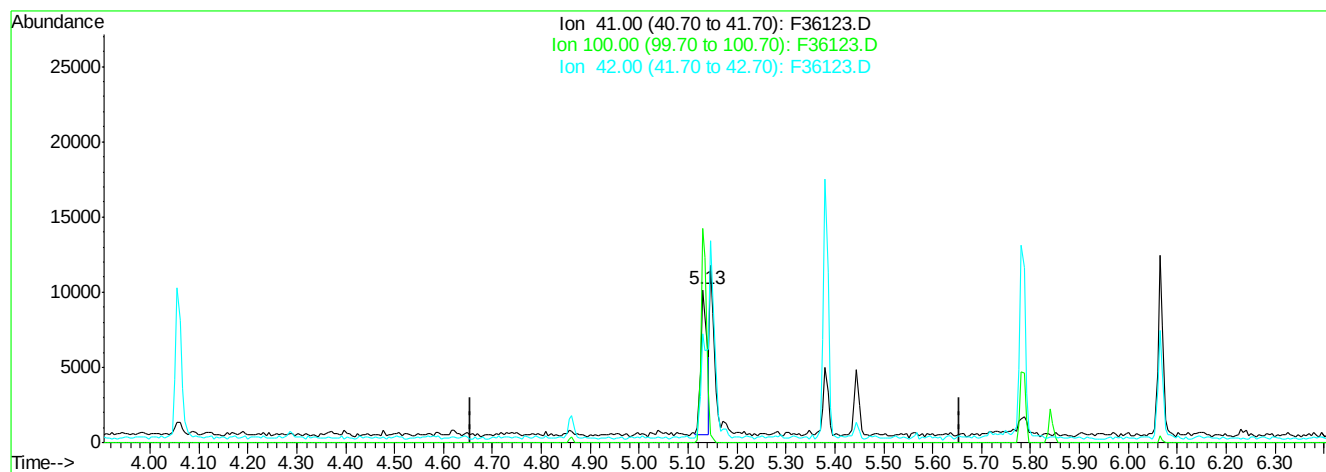
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Thu Jun 19 11:07:55 2014

Response via : Multiple Level Calibration



(109) N-Nitrosopyrrolidine (t)

5.13min 3.31ppb m

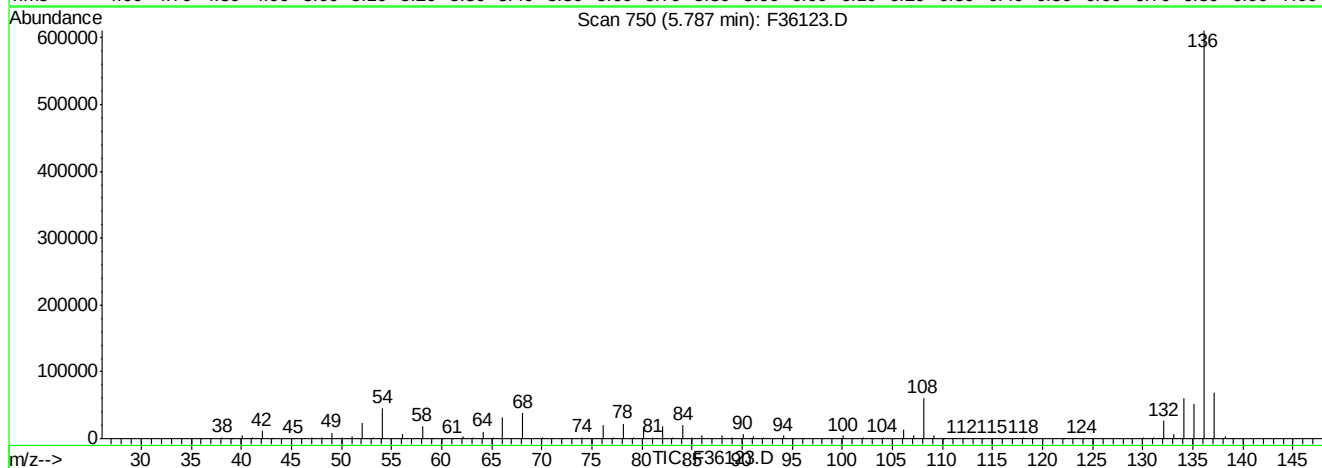
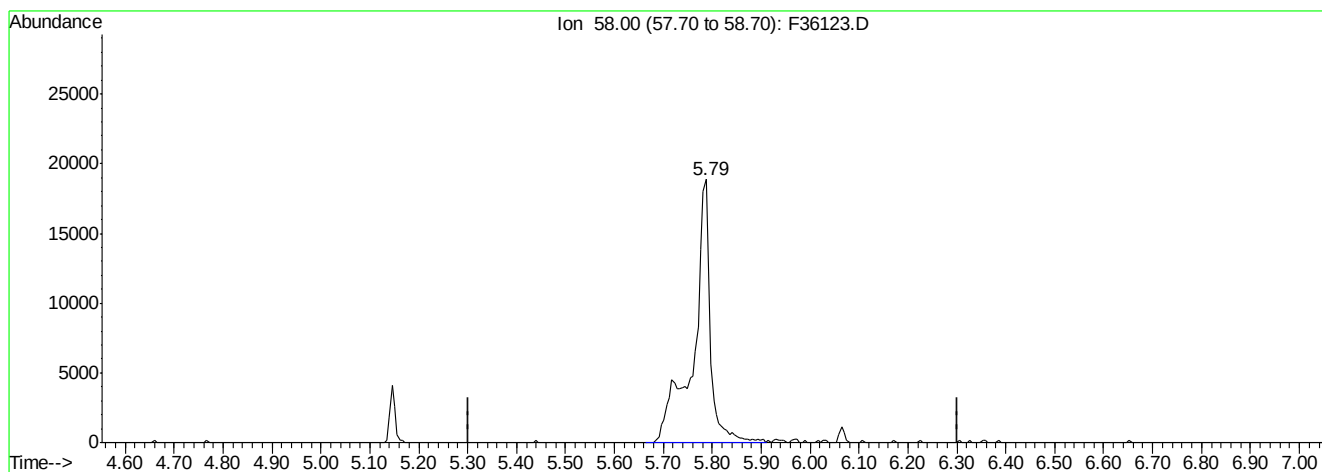
response 8665

Ion	Exp%	Act%
41.00	100	100
100.00	87.50	140.57#
42.00	102.50	71.66#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF5702\F36123.D Vial: 7
Acq On : 18 Jun 2014 10:47 pm Operator: ashleyd
Sample : ic5702-5 Inst : MSF
Misc : op74333,ef5702 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 19 10:07 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 19 11:07:55 2014
Response via : Multiple Level Calibration



(115) A,A-Dimethylphenethylamine (t)

5.79min 4.50ppb m

response 46409

Ion	Exp%	Act%
58.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5702\F36124.D

Vial: 8

Acq On : 18 Jun 2014 11:16 pm

Operator: ashleyd

Sample : ic5702-2

Inst : MSF

Misc : op74333,ef5702

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Jun 19 09:41:12 2014

Quant Results File: MFAP5692.RES

Quant Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Thu Jun 19 09:04:43 2014

Response via : Initial Calibration

DataAcq Meth : MF5692

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.86	152	135212	40.00	ppb	0.00
24) Naphthalene-d8	5.79	136	492054	40.00	ppb	0.00
47) Acenaphthene-d10	7.25	164	287704	40.00	ppb	-0.01
69) Phenanthrene-d10	9.21	188	469316	40.00	ppb	-0.02
83) Chrysene-d12	14.54	240	468710	40.00	ppb	-0.02
92) Perylene-d12	17.61	264	425858	40.00	ppb	-0.02
102) 1,4-Dichlorobenzene-d4A	4.86	152	135212	40.00	ppb	0.00
112) Naphthalene-d8A	5.79	136	492054	40.00	ppb	0.00
121) Acenaphthene-d10A	7.25	164	287704	40.00	ppb	-0.01
132) Phenanthrene-d10A	9.21	188	469316	40.00	ppb	-0.02
147) Chrysene-d12A	14.54	240	468710	40.00	ppb	-0.02
155) Perylene-d12A	17.61	264	425858	40.00	ppb	-0.02
159) 1,4-Dichlorobenzene-d4b	4.86	152	135212	40.00	ppb	0.00
161) Naphthalene-d8b	5.79	136	492054	40.00	ppb	0.00
163) Acenaphthene-d10b	7.25	164	287704	40.00	ppb	-0.01
165) Phenanthrene-d10b	9.21	188	469316	40.00	ppb	-0.02
167) Chrysene-d12b	14.54	240	468710	40.00	ppb	-0.02
169) 1,4-Dichlorobenzene-d4c	4.86	152	135212	40.00	ppb	0.00
171) Naphthalene-d8c	5.79	136	492054	40.00	ppb	0.00
176) Chrysene-d12c	14.54	240	468710	40.00	ppb	-0.02
178) Naphthalene-d8a	5.79	136	492054	40.00	ppb	-0.02

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
8) Phenol-d5	0.00	99	0d	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
25) Nitrobenzene-d5	0.00	82	0d	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.00	172	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
85) Terphenyl-d14	0.00	244	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	

Target Compounds

						Qvalue
103) 2-Picoline	3.45	93	11918	2.42	ppb	96
104) Pentachloroethane	4.65	167	4200	2.36	ppb	92
105) Methyl methanesulfonate	3.75	80	5546	2.39	ppb	91
106) N-Nitrosodiethylamine	4.06	102	5179	2.38	ppb	95
107) N-Nitrosomethylethylamine	3.51	42	4357	2.17	ppb	86
108) Ethyl methanesulfonate	4.29	79	7451	2.33	ppb	96
109) N-Nitrosopyrrolidine	5.13	41	3973m	1.49	ppb	
110) N-Nitrosomorpholine	5.16	56	6023	2.82	ppb	94
111) o-Toluidine	5.18	106	16592	2.89	ppb	93
113) O,O,O-Triethyl phosphoroth	5.57	198	4916	2.49	ppb	92
114) N-Nitrosopiperidine	5.38	42	5649	2.32	ppb	99
115) A,A-Dimethylphenethylamine	5.76	58	19546	1.87	ppb	100
116) Hexachloropropene	5.87	213	6186	2.39	ppb	93

(#)=qualifier out of range (m)=manual integration

F36124.D MFAP5692.M

Thu Jun 19 11:19:24 2014

RT1

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5702\F36124.D Vial: 8
 Acq On : 18 Jun 2014 11:16 pm Operator: ashleyd
 Sample : ic5702-2 Inst : MSF
 Misc : op74333,ef5702 Multiplr: 1.00
 MS Integration Params: LSCINT.P
 Quant Time: Jun 19 09:41:12 2014 Quant Results File: MFAP5692.RES

Quant Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)
 Title : Semi Volatile Extractables by GC/MS
 Last Update : Thu Jun 19 09:04:43 2014
 Response via : Initial Calibration
 DataAcq Meth : MF5692

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
118) N-Nitrosodi-n-butylamine	6.06	84	6409	2.36	ppb	89
119) Safrole	6.24	162	7215	2.34	ppb	93
120) Isosafrole	6.66	162	4886	2.36	ppb	98
122) Thionazin	7.81	143	2539	2.38	ppb	94
123) Tetraethyl dithiopyrophosp	8.22	322	2884	2.77	ppb	100
124) Phorate	8.41	75	11870	1.77	ppb	100
125) Phenacetin	8.42	108	9636	2.25	ppb	100
126) 1,4-Naphthoquinone	6.87	158	5180	2.15	ppb	96
127) m-Dinitrobenzene	6.99	168	2405	1.80	ppb	93
128) Pentachlorobenzene	7.43	250	7537	2.57	ppb	99
129) 1-Naphthylamine	7.55	143	15001	2.59	ppb	96
130) 2-Naphthylamine	7.64	143	17508	2.52	ppb	92
131) 5-Nitro-o-toluidine	7.88	152	5257	2.10	ppb	96
133) Disulfoton	9.22	88	14215	3.49	ppb	87
134) Dinoseb	9.22	211	2469	1.12	ppb	91
135) Dimethoate	8.64	87	8069	2.55	ppb	95
136) 4-Aminobiphenyl	8.91	169	21967	5.42	ppb	97
137) Methyl parathion	9.86	125	5134	2.23	ppb	99
138) Parathion	10.62	109	3618	2.00	ppb	91
139) Diphenylamine	8.01	169	30710	2.47	ppb	98
140) Isodrin	11.12	193	3354	2.42	ppb	92
141) Diallate	8.40	86	7889	2.30	ppb	89
142) Pentachloronitrobenzene	8.94	295	1935	4.88	ppb	88
143) Pronamide	9.02	173	8573	2.20	ppb	94
144) 4-Nitroquinoline 1-oxide	10.62	190	4026	3.77	ppb	93
145) Methapyriline	10.83	58	11743	3.50	ppb	98
146) sym-Trinitrobenzene	8.37	213	1015	1.20	ppb	# 63
148) Aramite	12.33	185	1487	3.83	ppb	91
149) p-(Dimethylamine)azobenzen	12.61	120	8175	1.90	ppb	86
151) Famphur	13.28	218	70719	31.47	ppb	98
152) 2-Acetylaminofluorene	13.90	181	11174	1.85	ppb	96
153) 3,3'-Dimethylbenzidine	13.36	212	17086	19.57	ppb	96
154) Chlorobenzilate	12.75	251	8344	2.20	ppb	97
156) 4,4-Methylene-bis-(2-chlor	14.59	266	2762	2.84	ppb	# 45
157) 3-Methylcholanthrene	18.20	268	14464	2.43	ppb	92

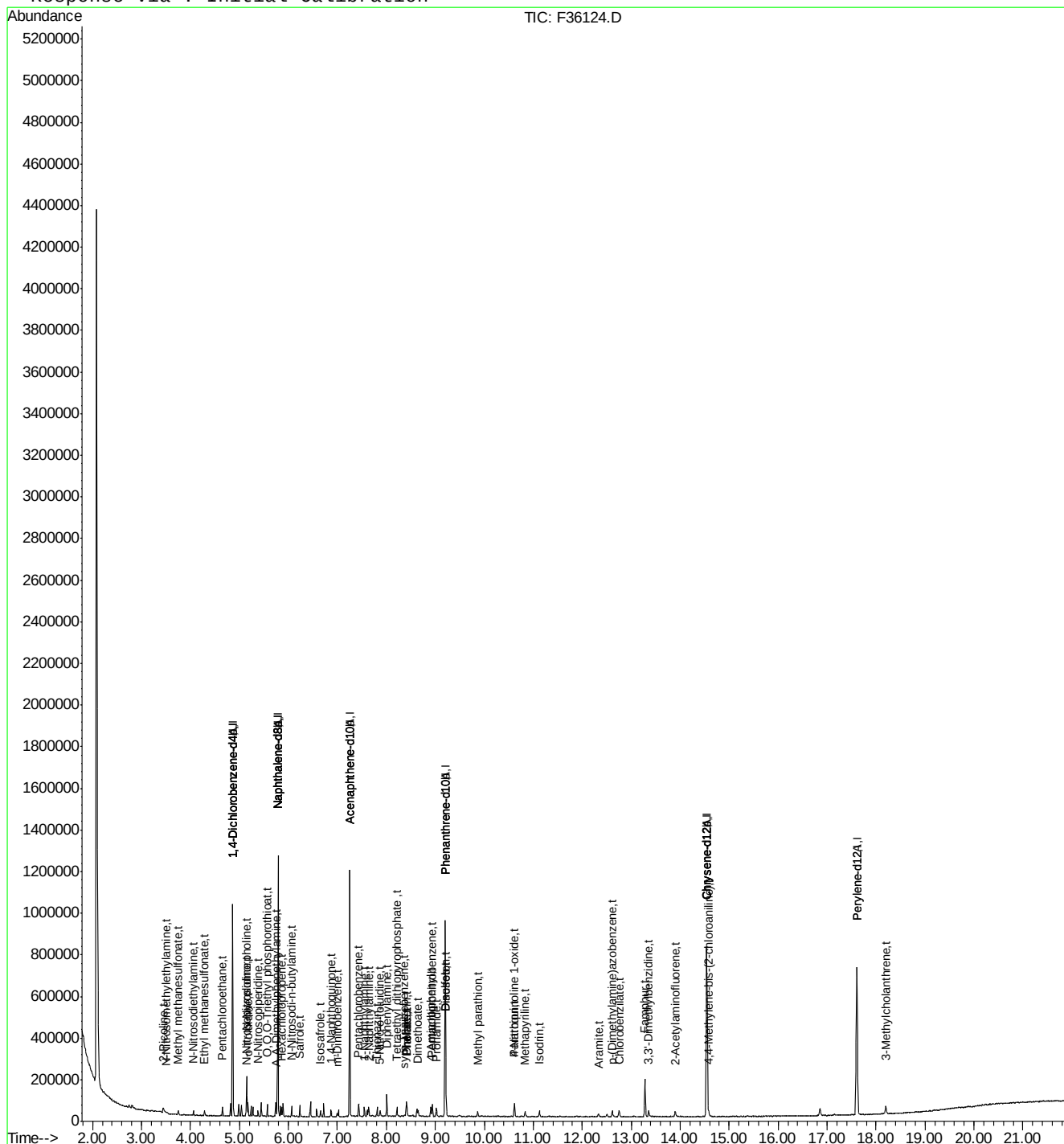
(#) = qualifier out of range (m) = manual integration (+) = signals summed
 F36124.D MFAP5692.M Thu Jun 19 11:19:24 2014 RT1

(QT Reviewed)

Vial: 8
Operator: ashleyd
Inst : MSF
Multiplr: 1.00

Quant Results File: MFAP5692.RES

Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 19 11:07:55 2014
Response via : Initial Calibration



Page 3

9.6.91

Manual Integration Approval Summary

Sample Number: EF5702-IC5702

Method: SW846 8270D

Lab FileID: F36124.D

Analyst approved: 06/20/14 12:57 Kristi Schollenberger

Injection Time: 06/18/14 23:16

Supervisor approved: 06/24/14 11:57 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
N-Nitrosopyrrolidine	930-55-2		5.13	Overlapping peak

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF5702\F36124.D

Vial: 8

Acq On : 18 Jun 2014 11:16 pm

Operator: ashleyd

Sample : ic5702-2

Inst : MSF

Misc : op74333,ef5702

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Jun 19 9:41 2014

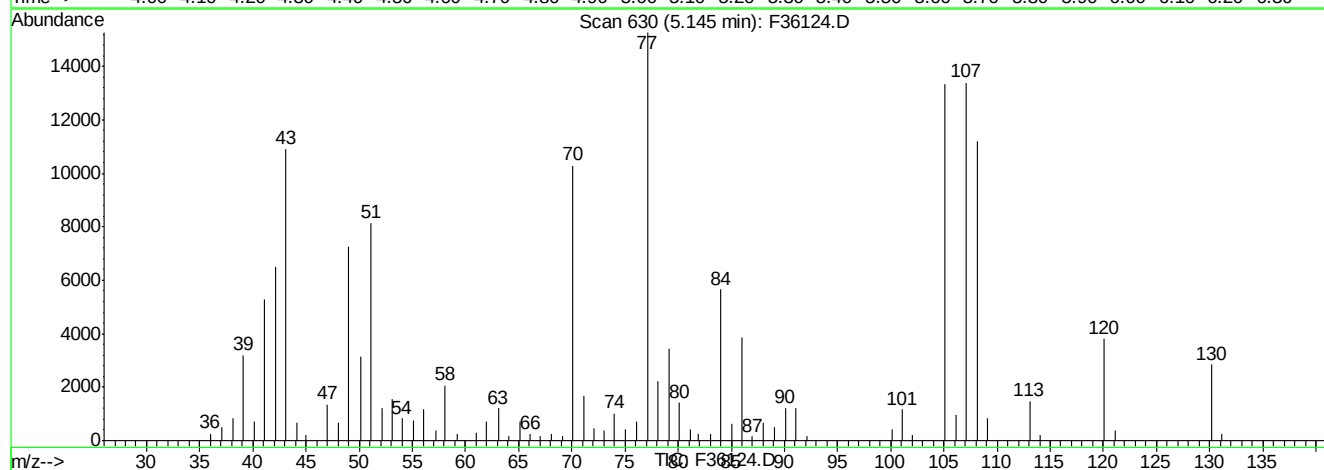
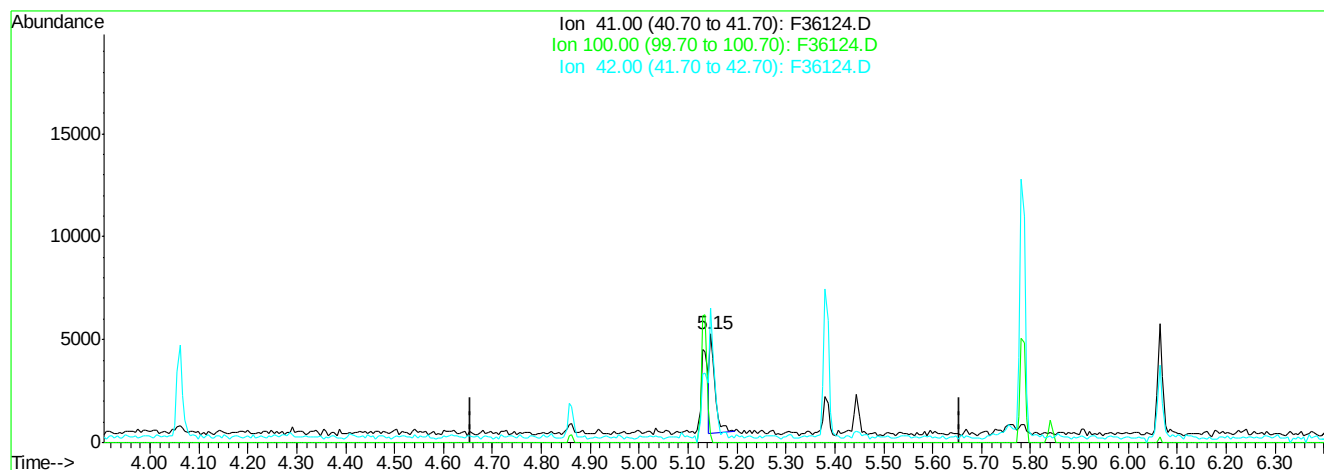
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Thu Jun 19 09:04:43 2014

Response via : Multiple Level Calibration



(109) N-Nitrosopyrrolidine (t)

5.15min 1.38ppb

response 3680

Ion	Exp%	Act%
41.00	100	100
100.00	87.50	0.00#
42.00	102.50	148.20#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF5702\F36124.D

Vial: 8

Acq On : 18 Jun 2014 11:16 pm

Operator: ashleyd

Sample : ic5702-2

Inst : MSF

Misc : op74333,ef5702

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Jun 19 10:08 2014

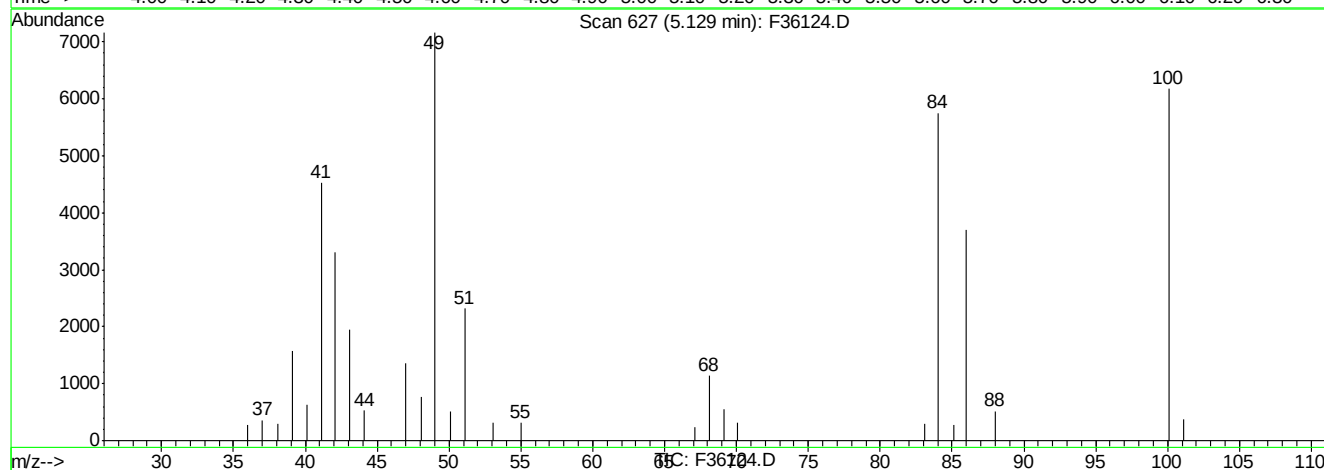
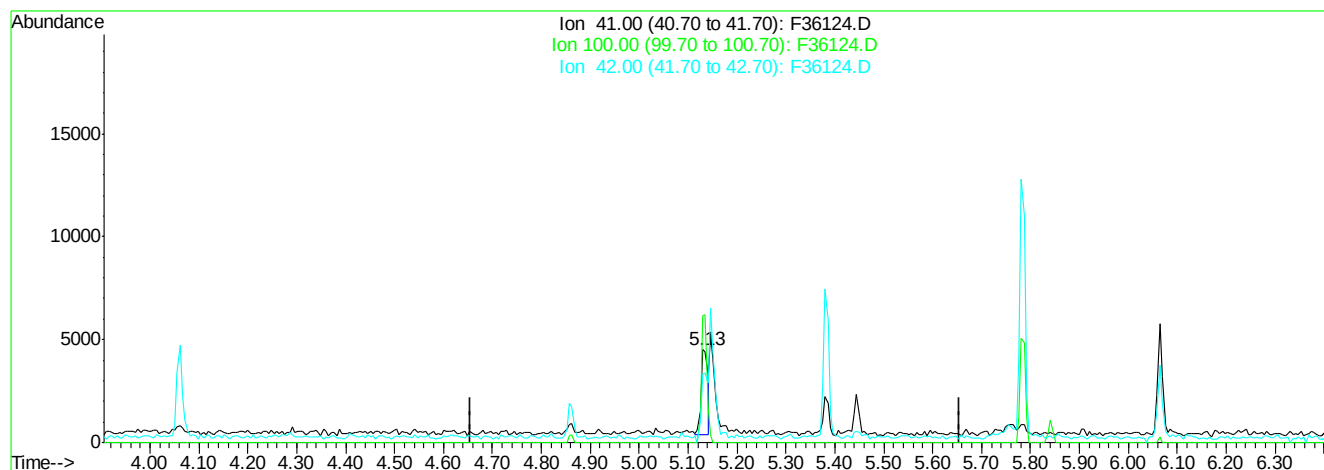
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Thu Jun 19 11:07:55 2014

Response via : Multiple Level Calibration



(109) N-Nitrosopyrrolidine (t)

5.13min 1.49ppb m

response 3973

Ion	Exp%	Act%
41.00	100	100
100.00	87.50	136.67#
42.00	102.50	73.25
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5702\F36125.D

Vial: 9

Acq On : 18 Jun 2014 11:44 pm

Operator: ashleyd

Sample : ic5702-1

Inst : MSF

Misc : op74333,ef5702

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Jun 19 09:42:38 2014

Quant Results File: MFAP5692.RES

Quant Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Thu Jun 19 09:04:43 2014

Response via : Initial Calibration

DataAcq Meth : MF5692

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.86	152	131601	40.00	ppb	0.00
24) Naphthalene-d8	5.79	136	477462	40.00	ppb	0.00
47) Acenaphthene-d10	7.25	164	281718	40.00	ppb	-0.01
69) Phenanthrene-d10	9.20	188	455893	40.00	ppb	-0.02
83) Chrysene-d12	14.54	240	452179	40.00	ppb	-0.02
92) Perylene-d12	17.61	264	402407	40.00	ppb	-0.02
102) 1,4-Dichlorobenzene-d4A	4.86	152	131601	40.00	ppb	0.00
112) Naphthalene-d8A	5.79	136	477462	40.00	ppb	0.00
121) Acenaphthene-d10A	7.25	164	281718	40.00	ppb	-0.01
132) Phenanthrene-d10A	9.20	188	455893	40.00	ppb	-0.02
147) Chrysene-d12A	14.54	240	452179	40.00	ppb	-0.02
155) Perylene-d12A	17.61	264	402407	40.00	ppb	-0.02
159) 1,4-Dichlorobenzene-d4b	4.86	152	131601	40.00	ppb	0.00
161) Naphthalene-d8b	5.79	136	477462	40.00	ppb	0.00
163) Acenaphthene-d10b	7.25	164	281718	40.00	ppb	-0.01
165) Phenanthrene-d10b	9.20	188	455893	40.00	ppb	-0.02
167) Chrysene-d12b	14.54	240	452179	40.00	ppb	-0.02
169) 1,4-Dichlorobenzene-d4c	4.86	152	131601	40.00	ppb	0.00
171) Naphthalene-d8c	5.79	136	477462	40.00	ppb	0.00
176) Chrysene-d12c	14.54	240	452179	40.00	ppb	-0.02
178) Naphthalene-d8a	5.79	136	477462	40.00	ppb	-0.02

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
8) Phenol-d5	0.00	99	0d	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
25) Nitrobenzene-d5	0.00	82	0d	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.00	172	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
85) Terphenyl-d14	0.00	244	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	

Target Compounds

						Qvalue
103) 2-Picoline	3.46	93	5805	1.21	ppb	84
104) Pentachloroethane	4.65	167	2141	1.23	ppb	94
105) Methyl methanesulfonate	3.76	80	2655	1.18	ppb	98
106) N-Nitrosodiethylamine	4.06	102	2603	1.23	ppb	96
107) N-Nitrosomethylethylamine	3.51	42	3000	1.54	ppb	86
108) Ethyl methanesulfonate	4.29	79	4079	1.31	ppb	94
109) N-Nitrosopyrrolidine	5.13	41	1911m	0.74	ppb	
110) N-Nitrosomorpholine	5.16	56	3035	1.46	ppb	89
111) o-Toluidine	5.18	106	7826	1.40	ppb	87
113) O,O,O-Triethyl phosphoroth	5.57	198	2514	1.31	ppb	80
114) N-Nitrosopiperidine	5.39	42	2628	1.11	ppb	94
115) A,A-Dimethylphenethylamine	5.74	58	9312m	0.92	ppb	
116) Hexachloropropene	5.87	213	2825	1.12	ppb	94

(#)=qualifier out of range (m)=manual integration

F36125.D MFAP5692.M

Thu Jun 19 11:19:45 2014

RT1

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5702\F36125.D Vial: 9
 Acq On : 18 Jun 2014 11:44 pm Operator: ashleyd
 Sample : ic5702-1 Inst : MSF
 Misc : op74333,ef5702 Multiplr: 1.00
 MS Integration Params: LSCINT.P
 Quant Time: Jun 19 09:42:38 2014 Quant Results File: MFAP5692.RES

Quant Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)
 Title : Semi Volatile Extractables by GC/MS
 Last Update : Thu Jun 19 09:04:43 2014
 Response via : Initial Calibration
 DataAcq Meth : MF5692

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
118) N-Nitrosodi-n-butylamine	6.06	84	3026	1.15	ppb	87
119) Safrole	6.24	162	3399	1.13	ppb	97
120) Isosafrole	6.66	162	2326	1.16	ppb	# 69
122) Thionazin	7.81	143	1229	1.18	ppb	92
123) Tetraethyl dithiopyrophosp	8.22	322	1320	1.29	ppb	100
124) Phorate	8.41	75	5851	0.89	ppb	100
125) Phenacetin	8.42	108	4404	1.05	ppb	91
126) 1,4-Naphthoquinone	6.87	158	2081	0.88	ppb	94
127) m-Dinitrobenzene	6.99	168	1126	0.86	ppb	87
128) Pentachlorobenzene	7.43	250	3606	1.25	ppb	90
129) 1-Naphthylamine	7.55	143	7010	1.24	ppb	94
130) 2-Naphthylamine	7.64	143	9454	1.39	ppb	97
131) 5-Nitro-o-toluidine	7.88	152	2424	0.99	ppb	93
133) Disulfoton	9.22	88	9192	2.32	ppb	93
134) Dinoseb	9.22	211	1008	0.47	ppb	77
135) Dimethoate	8.64	87	3618	1.18	ppb	88
136) 4-Aminobiphenyl	8.91	169	10525	2.67	ppb	96
137) Methyl parathion	9.87	125	2444	1.09	ppb	83
138) Parathion	10.61	109	1599	0.91	ppb	95
139) Diphenylamine	8.01	169	15119	1.25	ppb	97
140) Isodrin	11.12	193	1512	1.12	ppb	91
141) Diallate	8.40	86	4718	1.41	ppb	89
143) Pronamide	9.02	173	4113	1.08	ppb	95
144) 4-Nitroquinoline 1-oxide	10.61	190	1468	1.42	ppb	78
145) Methapyriline	10.83	58	5792	1.78	ppb	88
149) p-(Dimethylamine)azobenzen	12.62	120	3965	0.96	ppb	85
151) Famphur	13.28	218	33578	15.49	ppb	99
152) 2-Acetylaminofluorene	13.90	181	4872	0.84	ppb	97
153) 3,3'-Dimethylbenzidine	13.36	212	8026	9.53	ppb	90
154) Chlorobenzilate	12.75	251	4029	1.10	ppb	# 77
156) 4,4-Methylene-bis-(2-chlor	14.58	266	1229	1.34	ppb	# 59
157) 3-Methylcholanthrene	18.20	268	6929	1.23	ppb	99

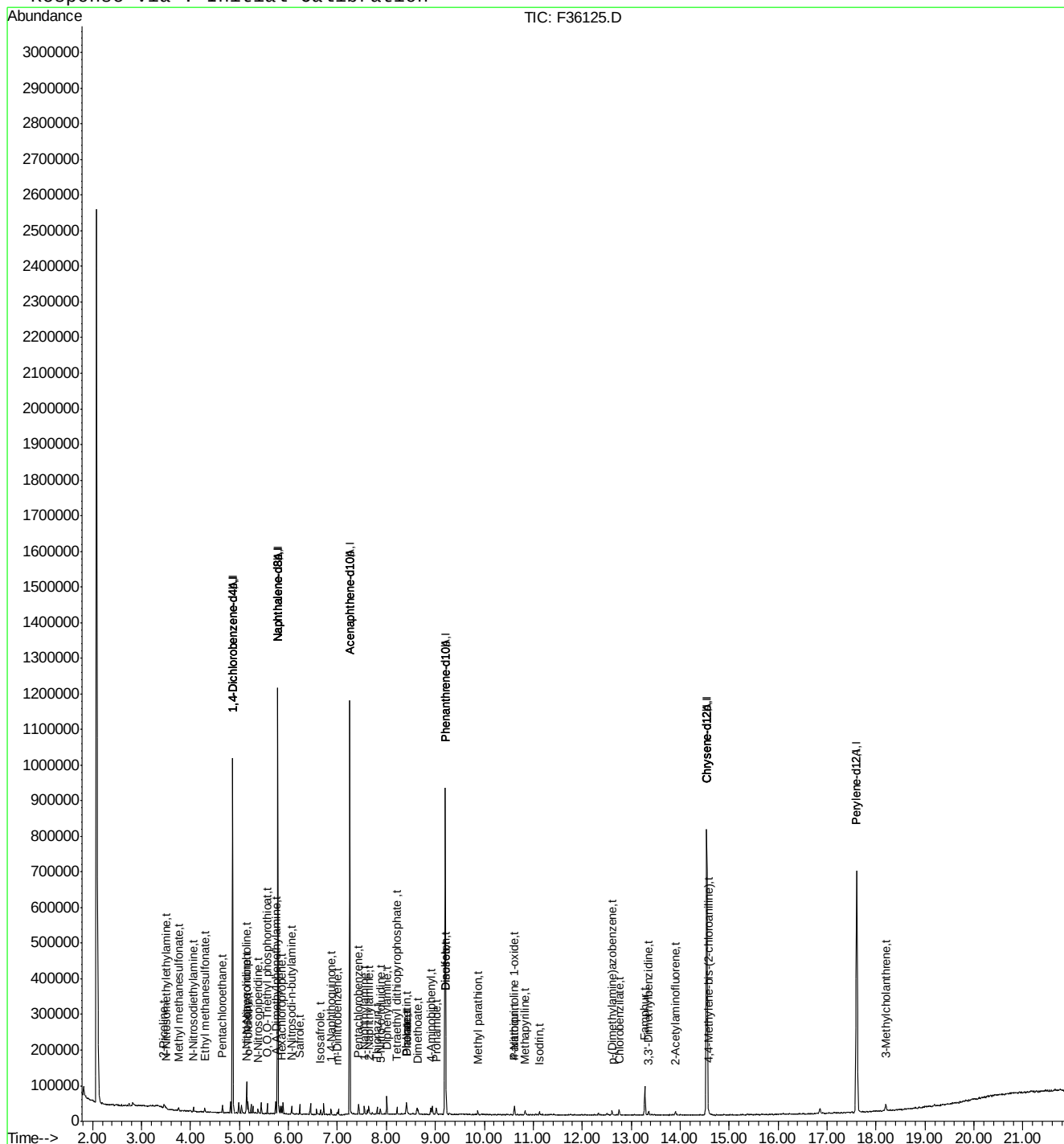
(#) = qualifier out of range (m) = manual integration (+) = signals summed
 F36125.D MFAP5692.M Thu Jun 19 11:19:45 2014 RT1

(QT Reviewed)

Vial: 9
Operator: ashleyd
Inst : MSF
Multiplr: 1.00

Quant Results File: MFAP5692.RES

Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 19 11:07:55 2014
Response via : Initial Calibration



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9.6.92

Manual Integration Approval Summary

Sample Number: EF5702-IC5702

Method: SW846 8270D

Lab FileID: F36125.D

Analyst approved: 06/20/14 12:57 Kristi Schollenberger

Injection Time: 06/18/14 23:44

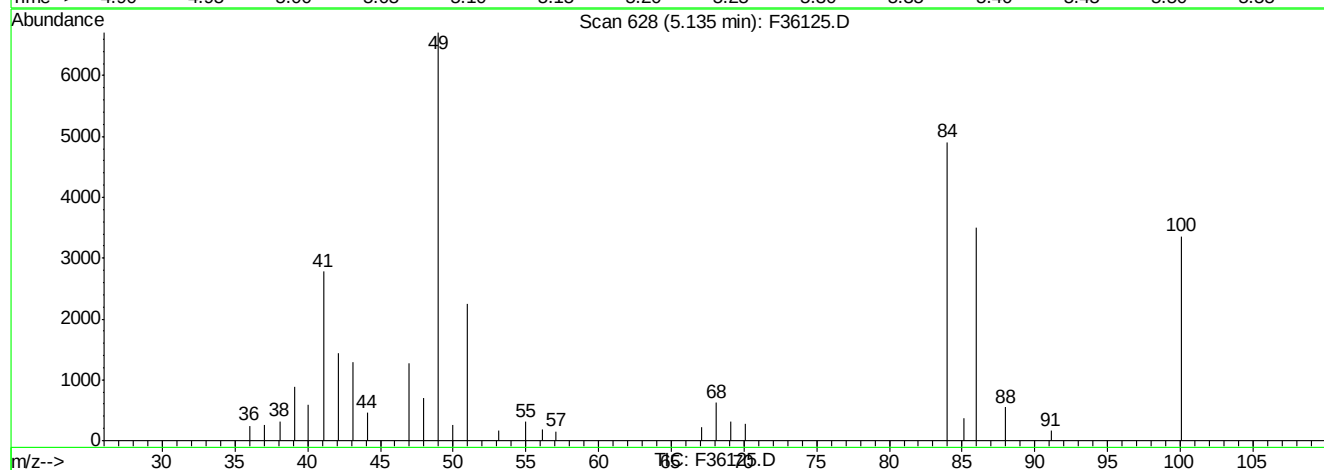
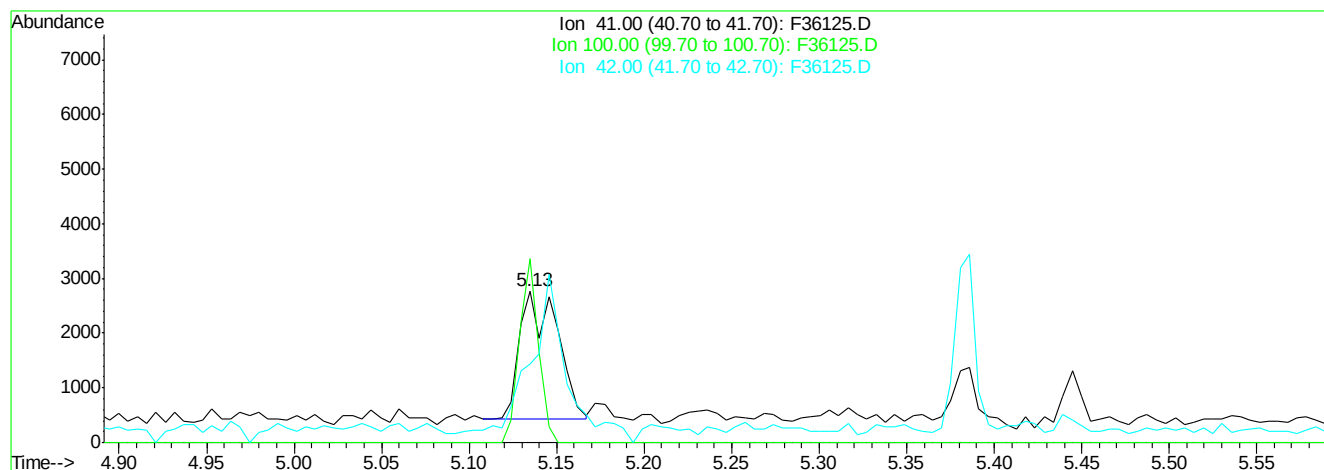
Supervisor approved: 06/24/14 11:57 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
N-Nitrosopyrrolidine	930-55-2		5.13	Overlapping peak
A,A-Dimethylphenethylamine	122-09-8		5.74	Split peak

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF5702\F36125.D Vial: 9
Acq On : 18 Jun 2014 11:44 pm Operator: ashleyd
Sample : ic5702-1 Inst : MSF
Misc : op74333,ef5702 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 19 9:43 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 19 09:04:43 2014
Response via : Multiple Level Calibration



(109) N-Nitrosopyrrolidine (t)

5.13min 1.36ppb

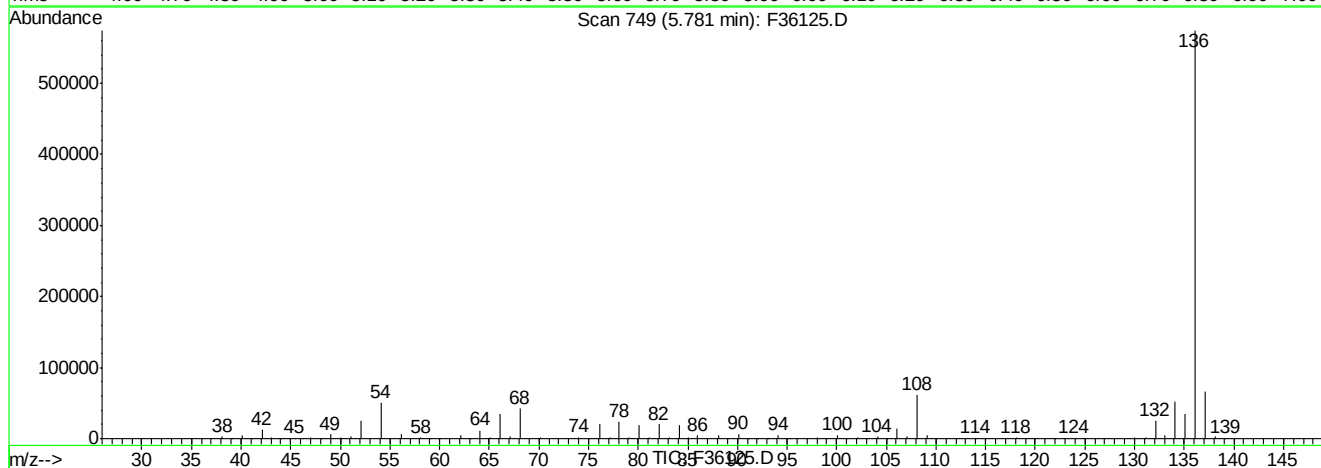
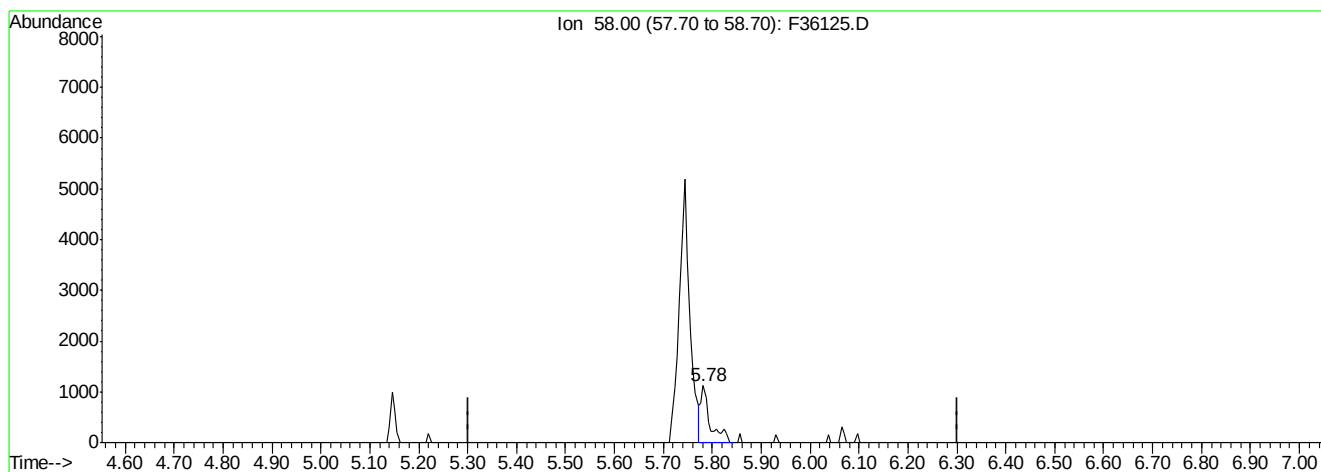
response 3514

Ion	Exp%	Act%
41.00	100	100
100.00	87.50	145.03#
42.00	102.50	45.89#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF5702\F36125.D Vial: 9
Acq On : 18 Jun 2014 11:44 pm Operator: ashleyd
Sample : ic5702-1 Inst : MSF
Misc : op74333,ef5702 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 19 9:43 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 19 09:04:43 2014
Response via : Multiple Level Calibration



(115) A,A-Dimethylphenethylamine (t)

5.78min 0.15ppb

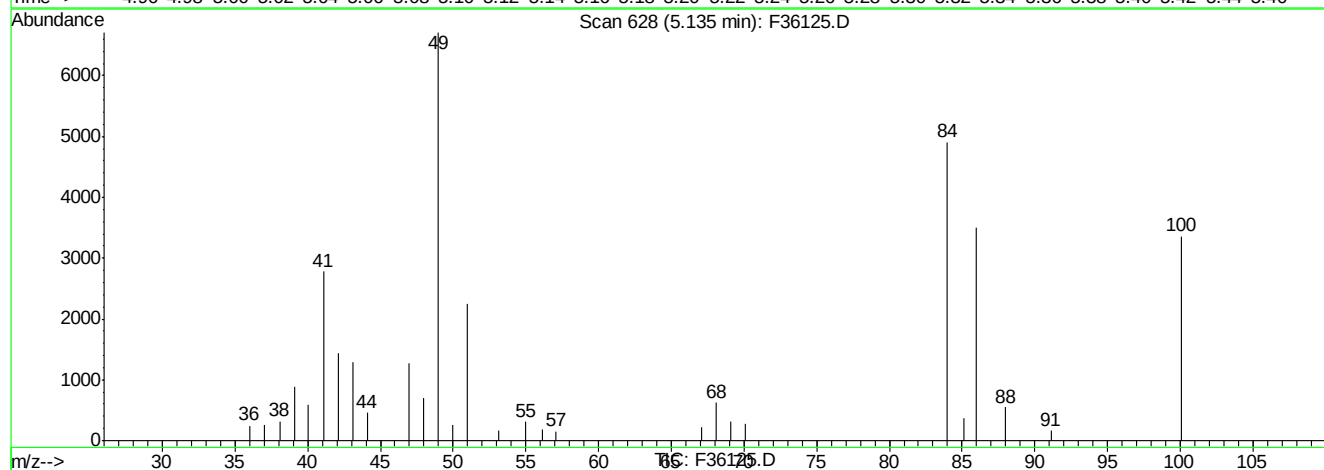
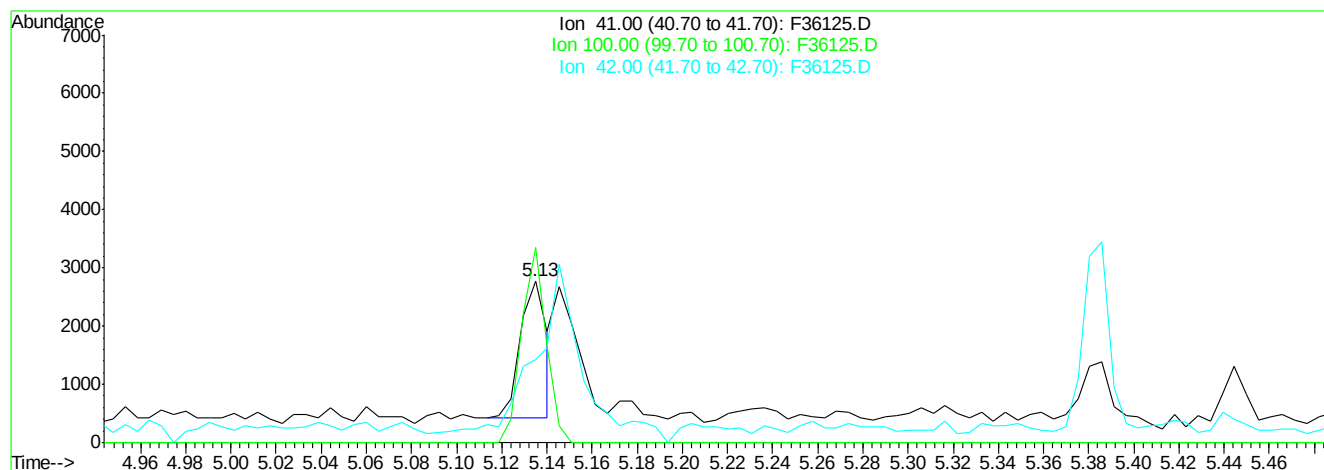
response 1502

Ion	Exp%	Act%
58.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF5702\F36125.D Vial: 9
Acq On : 18 Jun 2014 11:44 pm Operator: ashleyd
Sample : ic5702-1 Inst : MSF
Misc : op74333,ef5702 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 19 10:09 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 19 11:07:55 2014
Response via : Multiple Level Calibration



(109) N-Nitrosopyrrolidine (t)

5.13min 0.74ppb m

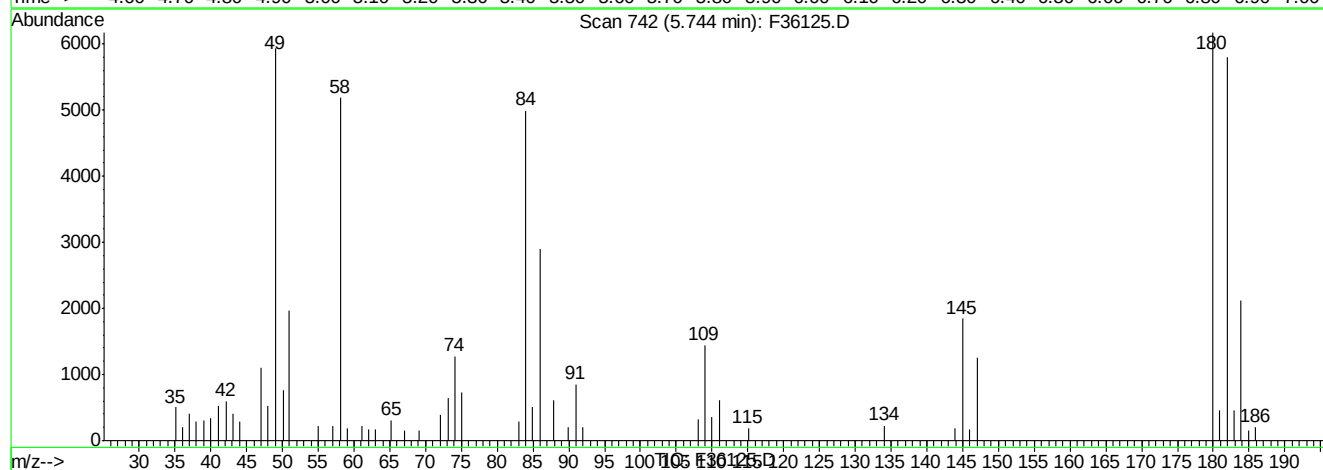
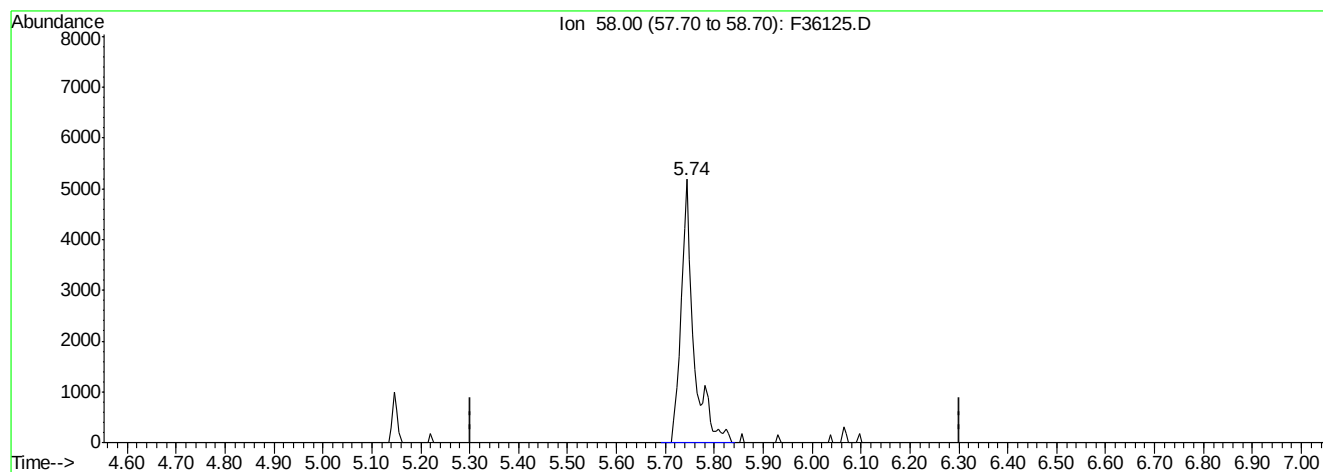
response 1911

Ion	Exp%	Act%
41.00	100	100
100.00	87.50	120.85#
42.00	102.50	51.60#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF5702\F36125.D Vial: 9
Acq On : 18 Jun 2014 11:44 pm Operator: ashleyd
Sample : ic5702-1 Inst : MSF
Misc : op74333,ef5702 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 19 10:09 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 19 11:07:55 2014
Response via : Multiple Level Calibration



(115) A,A-Dimethylphenethylamine (t)

5.74min 0.92ppb m

response 9312

Ion	Exp%	Act%
58.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5702\F36126.D

Vial: 10

Acq On : 19 Jun 2014 12:13 am

Operator: ashleyd

Sample : ic5702-100

Inst : MSF

Misc : op74333,ef5702

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Jun 19 11:29:10 2014

Quant Results File: MFAP5692.RES

Quant Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Thu Jun 19 11:29:00 2014

Response via : Initial Calibration

DataAcq Meth : MF5692

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.86	152	136279	40.00	ppb	0.00
24) Naphthalene-d8	5.79	136	497689	40.00	ppb	0.00
47) Acenaphthene-d10	7.26	164	296488	40.00	ppb	0.00
69) Phenanthrene-d10	9.20	188	480922	40.00	ppb	-0.02
83) Chrysene-d12	14.54	240	490730	40.00	ppb	-0.02
92) Perylene-d12	17.61	264	439375	40.00	ppb	-0.02
102) 1,4-Dichlorobenzene-d4A	4.86	152	136279	40.00	ppb	0.00
112) Naphthalene-d8A	5.79	136	497689	40.00	ppb	0.00
121) Acenaphthene-d10A	7.26	164	296488	40.00	ppb	0.00
132) Phenanthrene-d10A	9.20	188	480922	40.00	ppb	-0.01
147) Chrysene-d12A	14.54	240	490730	40.00	ppb	-0.01
155) Perylene-d12A	17.61	264	439375	40.00	ppb	-0.01
159) 1,4-Dichlorobenzene-d4b	4.86	152	136279	40.00	ppb	0.00
161) Naphthalene-d8b	5.79	136	497689	40.00	ppb	0.00
163) Acenaphthene-d10b	7.26	164	296488	40.00	ppb	0.00
165) Phenanthrene-d10b	9.20	188	480922	40.00	ppb	-0.02
167) Chrysene-d12b	14.54	240	490730	40.00	ppb	-0.02
169) 1,4-Dichlorobenzene-d4c	4.86	152	136279	40.00	ppb	0.00
171) Naphthalene-d8c	5.79	136	497689	40.00	ppb	0.00
176) Chrysene-d12c	14.54	240	490730	40.00	ppb	-0.02
178) Naphthalene-d8a	5.79	136	497689	40.00	ppb	-0.02

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
8) Phenol-d5	0.00	99	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
25) Nitrobenzene-d5	0.00	82	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.00	172	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
85) Terphenyl-d14	0.00	244	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	

Target Compounds

						Qvalue
170) m-Toluidine	5.21	106	649902	100.00	ppb	98
172) 2-chloroaniline	5.48	127	559163	100.00	ppb	97
173) 3-chloroaniline	5.82	127	532542	100.00	ppb	96
174) Catechol	5.73	110	446527	100.00	ppb	93
175) 1-chloro-2-nitrobenzene	6.03	75	219533	100.00	ppb	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 F36126.D MFAP5692.M Thu Jun 19 11:58:54 2014 RT1

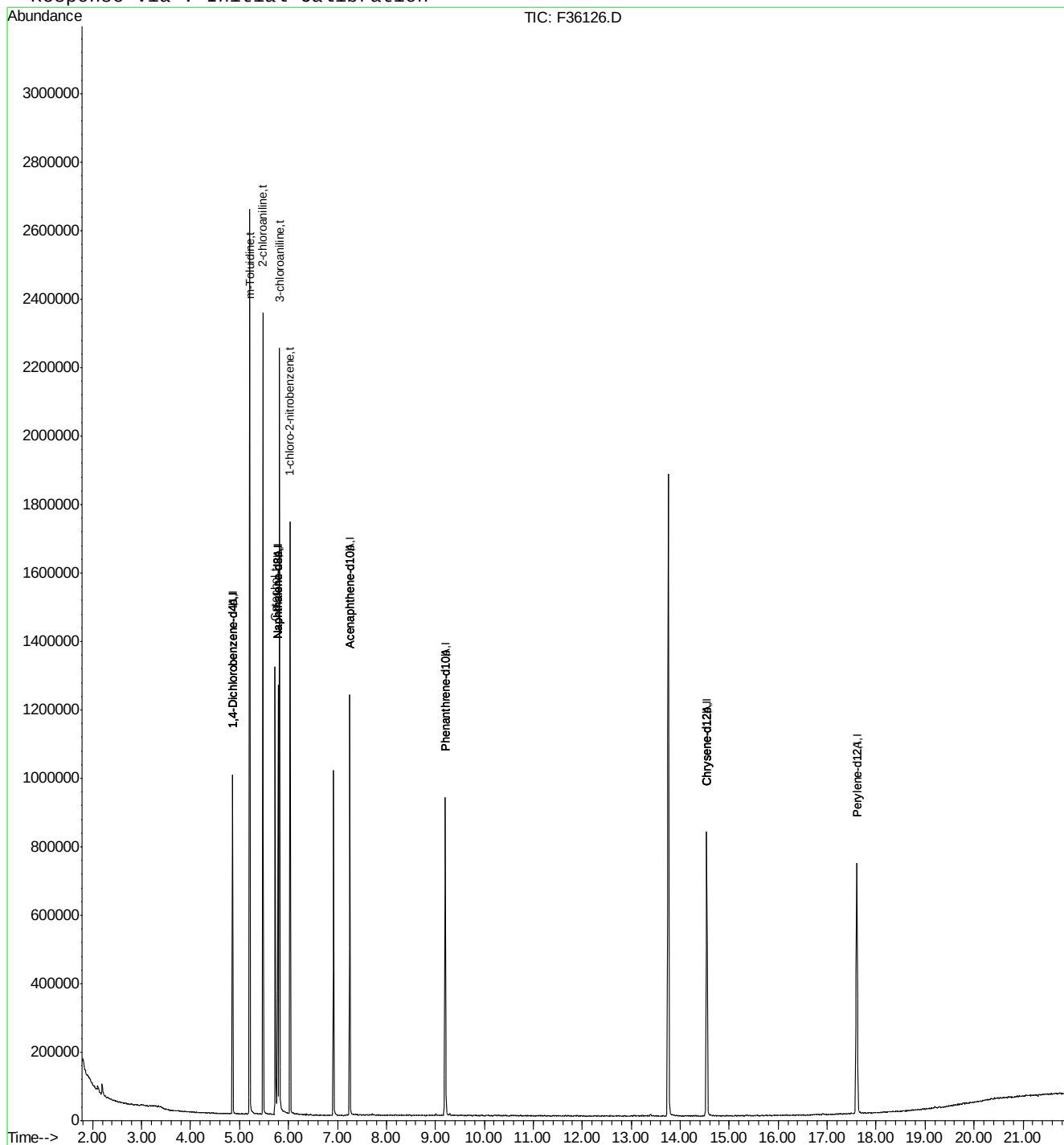
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5702\F36126.D
Acq On : 19 Jun 2014 12:13 am
Sample : ic5702-100
Misc : op74333,ef5702
MS Integration Params: LSCINT.P
Quant Time: Jun 19 11:29 2014

Vial: 10
Operator: ashleyd
Inst : MSF
Multiplr: 1.00

Quant Results File: MFAP5692.RES

Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 19 11:57:38 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5702\F36127.D

Vial: 11

Acq On : 19 Jun 2014 12:41 am

Operator: ashleyd

Sample : ic5702-80

Inst : MSF

Misc : op74333,ef5702

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Jun 19 11:30:10 2014

Quant Results File: MFAP5692.RES

Quant Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Thu Jun 19 11:29:00 2014

Response via : Initial Calibration

DataAcq Meth : MF5692

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.86	152	142591	40.00	ppb	0.00
24) Naphthalene-d8	5.78	136	516592	40.00	ppb	-0.01
47) Acenaphthene-d10	7.26	164	306745	40.00	ppb	0.00
69) Phenanthrene-d10	9.21	188	501342	40.00	ppb	-0.02
83) Chrysene-d12	14.54	240	506640	40.00	ppb	-0.02
92) Perylene-d12	17.60	264	451668	40.00	ppb	-0.03
102) 1,4-Dichlorobenzene-d4A	4.86	152	142591	40.00	ppb	0.00
112) Naphthalene-d8A	5.78	136	516592	40.00	ppb	0.00
121) Acenaphthene-d10A	7.26	164	306745	40.00	ppb	0.00
132) Phenanthrene-d10A	9.21	188	501342	40.00	ppb	0.00
147) Chrysene-d12A	14.54	240	506640	40.00	ppb	-0.01
155) Perylene-d12A	17.60	264	451668	40.00	ppb	-0.02
159) 1,4-Dichlorobenzene-d4b	4.86	152	142591	40.00	ppb	0.00
161) Naphthalene-d8b	5.78	136	516592	40.00	ppb	-0.01
163) Acenaphthene-d10b	7.26	164	306745	40.00	ppb	0.00
165) Phenanthrene-d10b	9.21	188	501342	40.00	ppb	-0.02
167) Chrysene-d12b	14.54	240	506640	40.00	ppb	-0.02
169) 1,4-Dichlorobenzene-d4c	4.86	152	142591	40.00	ppb	0.00
171) Naphthalene-d8c	5.78	136	516592	40.00	ppb	-0.01
176) Chrysene-d12c	14.54	240	506640	40.00	ppb	-0.02
178) Naphthalene-d8a	5.78	136	516592	40.00	ppb	-0.03

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
8) Phenol-d5	0.00	99	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
25) Nitrobenzene-d5	0.00	82	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.00	172	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
85) Terphenyl-d14	0.00	244	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	

Target Compounds

						Qvalue
170) m-Toluidine	5.21	106	551112	81.05	ppb	97
172) 2-chloroaniline	5.48	127	469498	80.89	ppb	98
173) 3-chloroaniline	5.82	127	446053	80.69	ppb	97
174) Catechol	5.73	110	368300	79.46	ppb	92
175) 1-chloro-2-nitrobenzene	6.03	75	183561	80.55	ppb	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 F36127.D MFAP5692.M Thu Jun 19 11:58:59 2014 RT1

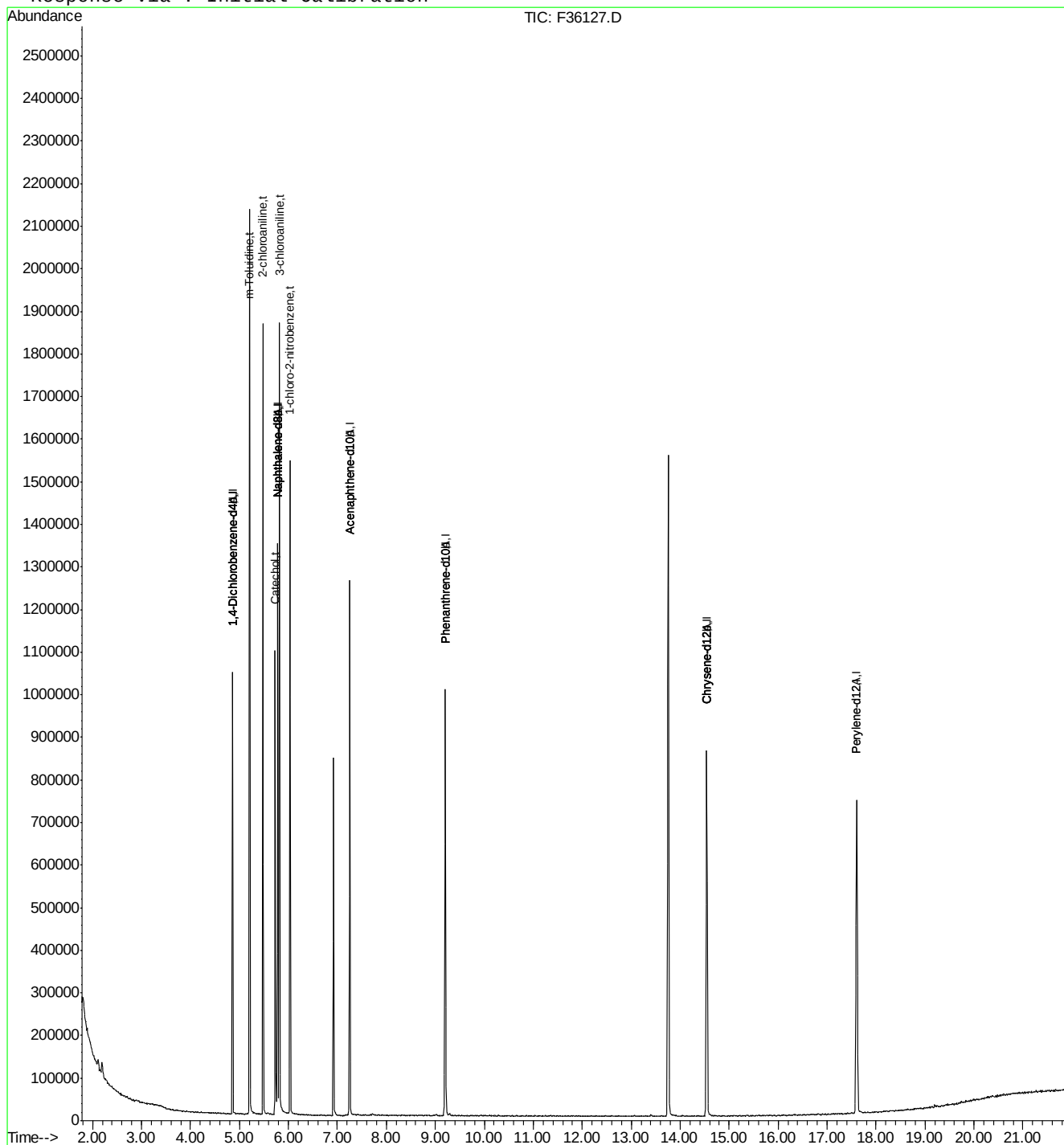
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5702\F36127.D
Acq On : 19 Jun 2014 12:41 am
Sample : ic5702-80
Misc : op74333,ef5702
MS Integration Params: LSCINT.P
Quant Time: Jun 19 11:30 2014

Vial: 11
Operator: ashleyd
Inst : MSF
Multiplr: 1.00

Quant Results File: MFAP5692.RES

Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 19 11:57:38 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5702\F36128.D

Vial: 12

Acq On : 19 Jun 2014 1:09 am

Operator: ashleyd

Sample : ic5702-50

Inst : MSF

Misc : op74333,ef5702

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Jun 19 11:31:22 2014

Quant Results File: MFAP5692.RES

Quant Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Thu Jun 19 11:29:00 2014

Response via : Initial Calibration

DataAcq Meth : MF5692

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.86	152	199189	40.00	ppb	0.00
24) Naphthalene-d8	5.79	136	692225	40.00	ppb	0.00
47) Acenaphthene-d10	7.26	164	413490	40.00	ppb	0.00
69) Phenanthrene-d10	9.21	188	659903	40.00	ppb	-0.02
83) Chrysene-d12	14.55	240	677913	40.00	ppb	-0.01
92) Perylene-d12	17.61	264	613918	40.00	ppb	-0.02
102) 1,4-Dichlorobenzene-d4A	4.86	152	199189	40.00	ppb	0.00
112) Naphthalene-d8A	5.79	136	692225	40.00	ppb	0.00
121) Acenaphthene-d10A	7.26	164	413490	40.00	ppb	0.00
132) Phenanthrene-d10A	9.21	188	659903	40.00	ppb	0.00
147) Chrysene-d12A	14.55	240	677913	40.00	ppb	0.00
155) Perylene-d12A	17.61	264	613918	40.00	ppb	-0.01
159) 1,4-Dichlorobenzene-d4b	4.86	152	199189	40.00	ppb	0.00
161) Naphthalene-d8b	5.79	136	692225	40.00	ppb	0.00
163) Acenaphthene-d10b	7.26	164	413490	40.00	ppb	0.00
165) Phenanthrene-d10b	9.21	188	659903	40.00	ppb	-0.02
167) Chrysene-d12b	14.55	240	677913	40.00	ppb	-0.01
169) 1,4-Dichlorobenzene-d4c	4.86	152	199189	40.00	ppb	0.00
171) Naphthalene-d8c	5.79	136	692225	40.00	ppb	0.00
176) Chrysene-d12c	14.55	240	677913	40.00	ppb	-0.01
178) Naphthalene-d8a	5.79	136	692225	40.00	ppb	-0.02

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
8) Phenol-d5	0.00	99	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
25) Nitrobenzene-d5	0.00	82	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.00	172	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
85) Terphenyl-d14	0.00	244	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	

Target Compounds

						Qvalue
170) m-Toluidine	5.20	106	470505	49.53	ppb	98
172) 2-chloroaniline	5.48	127	416164	53.51	ppb	97
173) 3-chloroaniline	5.82	127	390347	52.70	ppb	97
174) Catechol	5.73	110	301476	48.54	ppb	97
175) 1-chloro-2-nitrobenzene	6.03	75	158442	51.89	ppb	91

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 F36128.D MFAP5692.M Tue Jun 24 11:44:50 2014 RT1

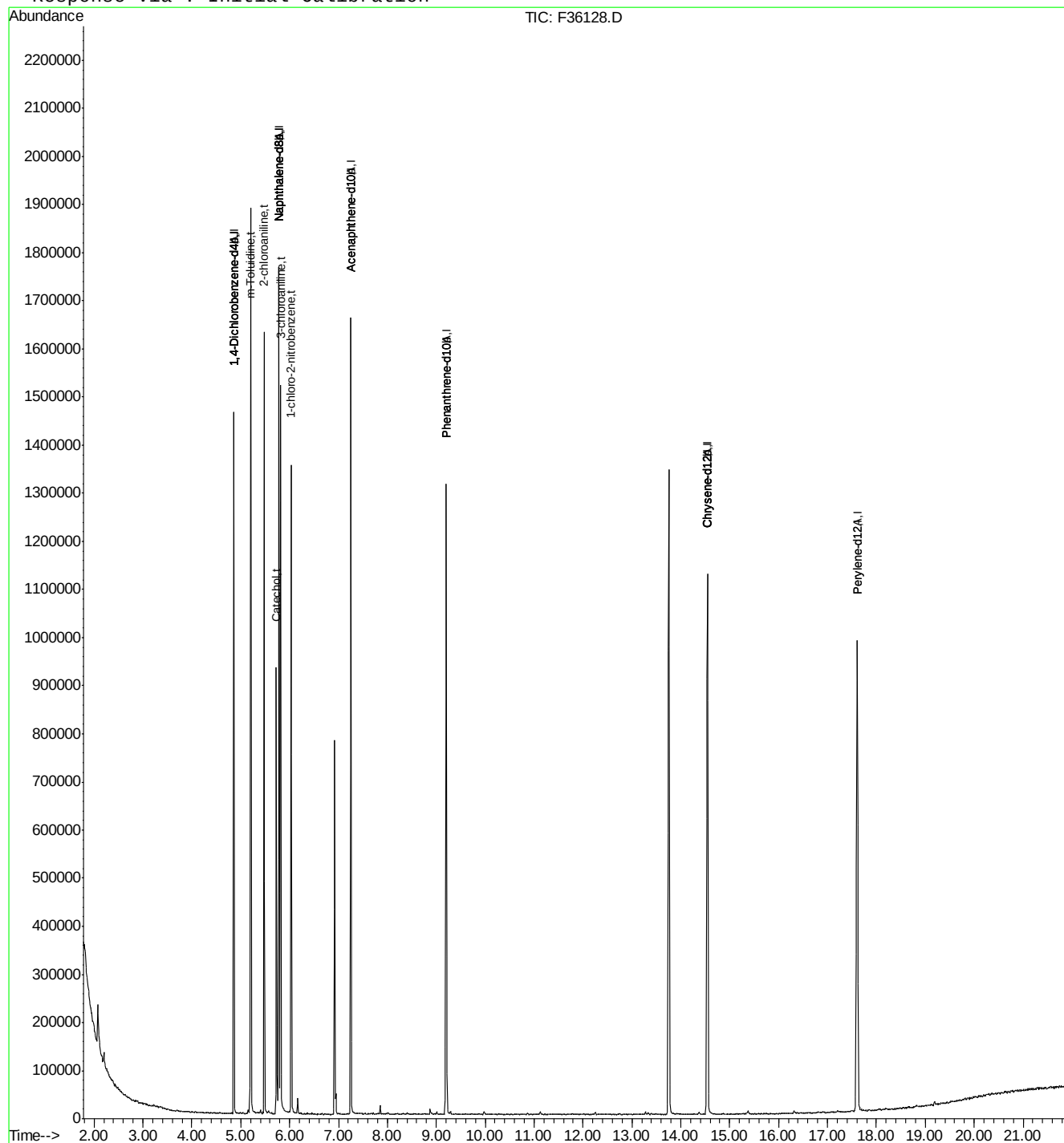
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5702\F36128.D
Acq On : 19 Jun 2014 1:09 am
Sample : ic5702-50
Misc : op74333,ef5702
MS Integration Params: LSCINT.P
Quant Time: Jun 19 11:32 2014

Vial: 12
Operator: ashleyd
Inst : MSF
Multiplr: 1.00

Quant Results File: MFAP5692.RES

Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jun 24 08:08:18 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5702\F36129.D

Vial: 13

Acq On : 19 Jun 2014 1:38 am

Operator: ashleyd

Sample : ic5702-25

Inst : MSF

Misc : op74333,ef5702

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Jun 19 11:32:48 2014

Quant Results File: MFAP5692.RES

Quant Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Thu Jun 19 11:29:00 2014

Response via : Initial Calibration

DataAcq Meth : MF5692

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.86	152	197242	40.00	ppb	0.00
24) Naphthalene-d8	5.79	136	702029	40.00	ppb	0.00
47) Acenaphthene-d10	7.26	164	422598	40.00	ppb	0.00
69) Phenanthrene-d10	9.21	188	677229	40.00	ppb	-0.02
83) Chrysene-d12	14.54	240	696297	40.00	ppb	-0.02
92) Perylene-d12	17.61	264	630065	40.00	ppb	-0.02
102) 1,4-Dichlorobenzene-d4A	4.86	152	197242	40.00	ppb	0.00
112) Naphthalene-d8A	5.79	136	702029	40.00	ppb	0.00
121) Acenaphthene-d10A	7.26	164	422598	40.00	ppb	0.00
132) Phenanthrene-d10A	9.21	188	677229	40.00	ppb	0.00
147) Chrysene-d12A	14.54	240	696297	40.00	ppb	-0.01
155) Perylene-d12A	17.61	264	630065	40.00	ppb	-0.01
159) 1,4-Dichlorobenzene-d4b	4.86	152	197242	40.00	ppb	0.00
161) Naphthalene-d8b	5.79	136	702029	40.00	ppb	0.00
163) Acenaphthene-d10b	7.26	164	422598	40.00	ppb	0.00
165) Phenanthrene-d10b	9.21	188	677229	40.00	ppb	-0.02
167) Chrysene-d12b	14.54	240	696297	40.00	ppb	-0.02
169) 1,4-Dichlorobenzene-d4c	4.86	152	197242	40.00	ppb	0.00
171) Naphthalene-d8c	5.79	136	702029	40.00	ppb	0.00
176) Chrysene-d12c	14.54	240	696297	40.00	ppb	-0.02
178) Naphthalene-d8a	5.79	136	702029	40.00	ppb	-0.02

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
8) Phenol-d5	0.00	99	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
25) Nitrobenzene-d5	0.00	82	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.00	172	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
85) Terphenyl-d14	0.00	244	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	

Target Compounds

						Qvalue
170) m-Toluidine	5.20	106	251997	26.79	ppb	99
172) 2-chloroaniline	5.48	127	217266	27.55	ppb	99
173) 3-chloroaniline	5.82	127	202634	26.97	ppb	98
174) Catechol	5.73	110	141768	22.51	ppb	93
175) 1-chloro-2-nitrobenzene	6.03	75	81623	26.36	ppb	88

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 F36129.D MFAP5692.M Thu Jun 19 11:59:07 2014 RT1

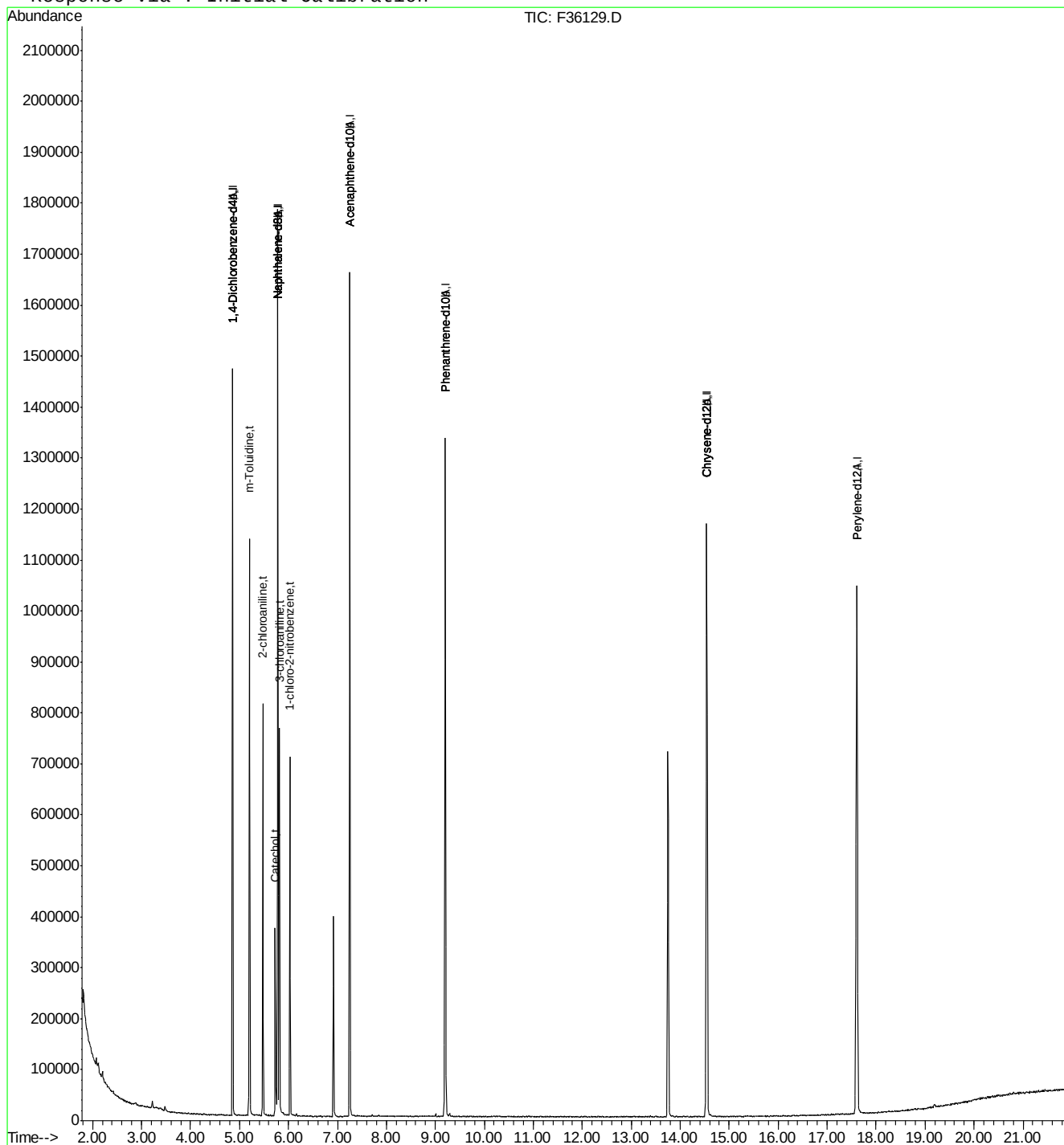
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5702\F36129.D
Acq On : 19 Jun 2014 1:38 am
Sample : ic5702-25
Misc : op74333,ef5702
MS Integration Params: LSCINT.P
Quant Time: Jun 19 11:33 2014

Vial: 13
Operator: ashleyd
Inst : MSF
Multiplr: 1.00

Quant Results File: MFAP5692.RES

Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 19 11:57:38 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5702\F36130.D

Vial: 14

Acq On : 19 Jun 2014 2:06 am

Operator: ashleyd

Sample : ic5702-10

Inst : MSF

Misc : op74333,ef5702

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Jun 19 11:33:44 2014

Quant Results File: MFAP5692.RES

Quant Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Thu Jun 19 11:29:00 2014

Response via : Initial Calibration

DataAcq Meth : MF5692

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.86	152	144871	40.00	ppb	0.00
24) Naphthalene-d8	5.78	136	525034	40.00	ppb	-0.01
47) Acenaphthene-d10	7.25	164	307118	40.00	ppb	-0.01
69) Phenanthrene-d10	9.20	188	499028	40.00	ppb	-0.02
83) Chrysene-d12	14.54	240	522936	40.00	ppb	-0.02
92) Perylene-d12	17.60	264	471762	40.00	ppb	-0.03
102) 1,4-Dichlorobenzene-d4A	4.86	152	144871	40.00	ppb	0.00
112) Naphthalene-d8A	5.78	136	525034	40.00	ppb	0.00
121) Acenaphthene-d10A	7.25	164	307118	40.00	ppb	0.00
132) Phenanthrene-d10A	9.20	188	499028	40.00	ppb	-0.01
147) Chrysene-d12A	14.54	240	522936	40.00	ppb	-0.01
155) Perylene-d12A	17.60	264	471762	40.00	ppb	-0.02
159) 1,4-Dichlorobenzene-d4b	4.86	152	144871	40.00	ppb	0.00
161) Naphthalene-d8b	5.78	136	525034	40.00	ppb	-0.01
163) Acenaphthene-d10b	7.25	164	307118	40.00	ppb	-0.01
165) Phenanthrene-d10b	9.20	188	499028	40.00	ppb	-0.02
167) Chrysene-d12b	14.54	240	522936	40.00	ppb	-0.02
169) 1,4-Dichlorobenzene-d4c	4.86	152	144871	40.00	ppb	0.00
171) Naphthalene-d8c	5.78	136	525034	40.00	ppb	-0.01
176) Chrysene-d12c	14.54	240	522936	40.00	ppb	-0.02
178) Naphthalene-d8a	5.78	136	525034	40.00	ppb	-0.03

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
8) Phenol-d5	0.00	99	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
25) Nitrobenzene-d5	0.00	82	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.00	172	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
85) Terphenyl-d14	0.00	244	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	

Target Compounds

						Qvalue
170) m-Toluidine	5.20	106	84378	12.21	ppb	99
172) 2-chloroaniline	5.48	127	69862	11.84	ppb	97
173) 3-chloroaniline	5.82	127	65459	11.65	ppb	99
174) Catechol	5.73	110	42516	9.03	ppb	94
175) 1-chloro-2-nitrobenzene	6.03	75	25672	11.08	ppb	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 F36130.D MFAP5692.M Thu Jun 19 11:59:10 2014 RT1

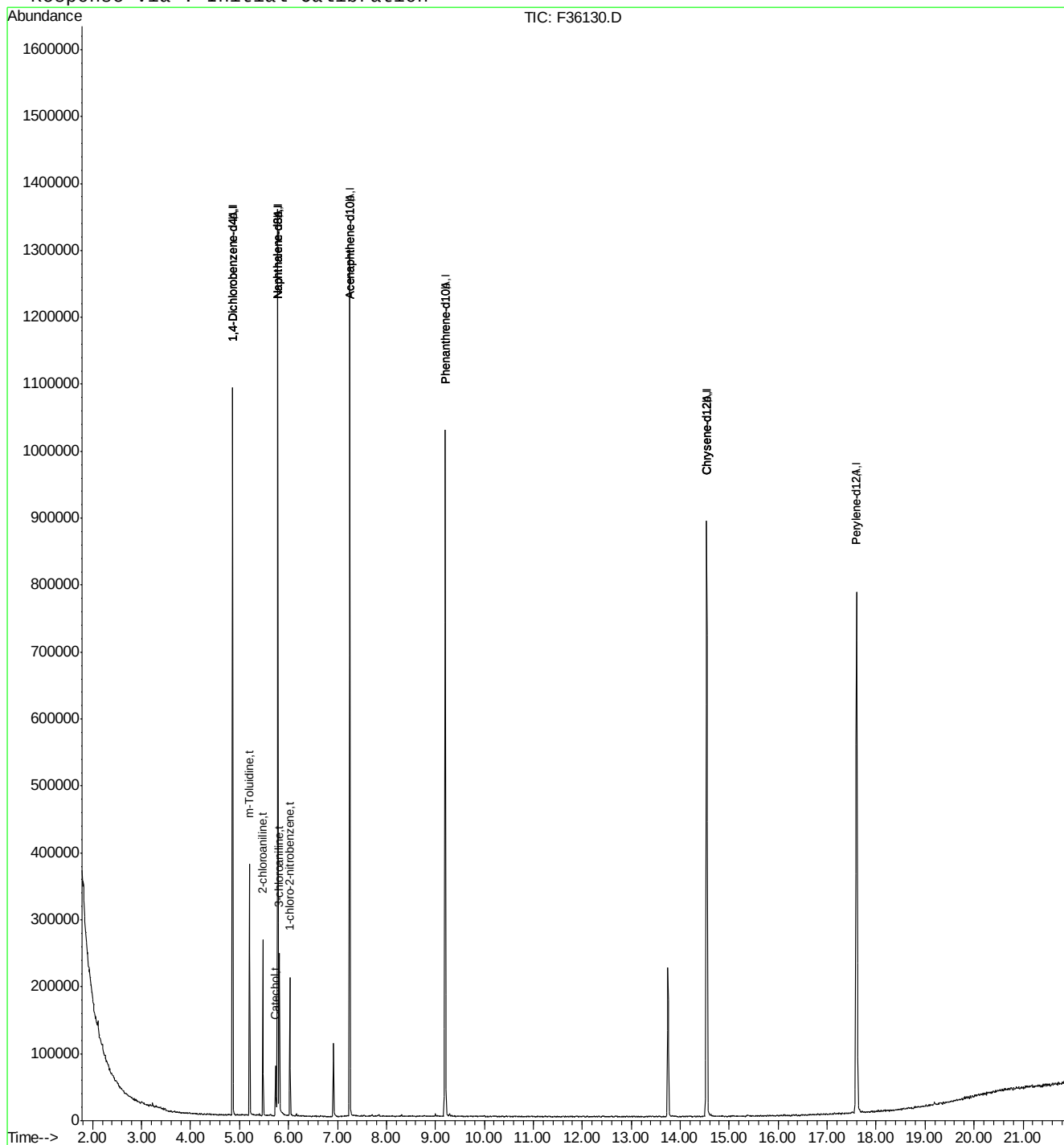
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5702\F36130.D
Acq On : 19 Jun 2014 2:06 am
Sample : ic5702-10
Misc : op74333,ef5702
MS Integration Params: LSCINT.P
Quant Time: Jun 19 11:34 2014

Vial: 14
Operator: ashleyd
Inst : MSF
Multiplr: 1.00

Quant Results File: MFAP5692.RES

Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 19 11:57:38 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5702\F36131.D

Vial: 15

Acq On : 19 Jun 2014 2:34 am

Operator: ashleyd

Sample : ic5702-5

Inst : MSF

Misc : op74333,ef5702

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Jun 19 11:34:38 2014

Quant Results File: MFAP5692.RES

Quant Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Thu Jun 19 11:29:00 2014

Response via : Initial Calibration

DataAcq Meth : MF5692

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.86	152	142808	40.00	ppb	0.00
24) Naphthalene-d8	5.78	136	518457	40.00	ppb	-0.01
47) Acenaphthene-d10	7.25	164	306218	40.00	ppb	-0.01
69) Phenanthrene-d10	9.20	188	492632	40.00	ppb	-0.02
83) Chrysene-d12	14.54	240	506934	40.00	ppb	-0.02
92) Perylene-d12	17.60	264	453675	40.00	ppb	-0.03
102) 1,4-Dichlorobenzene-d4A	4.86	152	142808	40.00	ppb	0.00
112) Naphthalene-d8A	5.78	136	518457	40.00	ppb	0.00
121) Acenaphthene-d10A	7.25	164	306218	40.00	ppb	0.00
132) Phenanthrene-d10A	9.20	188	492632	40.00	ppb	-0.01
147) Chrysene-d12A	14.54	240	506934	40.00	ppb	-0.02
155) Perylene-d12A	17.60	264	453675	40.00	ppb	-0.02
159) 1,4-Dichlorobenzene-d4b	4.86	152	142808	40.00	ppb	0.00
161) Naphthalene-d8b	5.78	136	518457	40.00	ppb	-0.01
163) Acenaphthene-d10b	7.25	164	306218	40.00	ppb	-0.01
165) Phenanthrene-d10b	9.20	188	492632	40.00	ppb	-0.02
167) Chrysene-d12b	14.54	240	506934	40.00	ppb	-0.02
169) 1,4-Dichlorobenzene-d4c	4.86	152	142808	40.00	ppb	0.00
171) Naphthalene-d8c	5.78	136	518457	40.00	ppb	-0.01
176) Chrysene-d12c	14.54	240	506934	40.00	ppb	-0.02
178) Naphthalene-d8a	5.78	136	518457	40.00	ppb	-0.03

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
8) Phenol-d5	0.00	99	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
25) Nitrobenzene-d5	0.00	82	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.00	172	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
85) Terphenyl-d14	0.00	244	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	

Target Compounds

						Qvalue
170) m-Toluidine	5.20	106	40989	6.02	ppb	99
172) 2-chloroaniline	5.48	127	33985	5.83	ppb	97
173) 3-chloroaniline	5.81	127	32074	5.78	ppb	96
174) Catechol	5.74	110	14462	3.11	ppb	87
175) 1-chloro-2-nitrobenzene	6.03	75	12033	5.26	ppb	90

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 F36131.D MFAP5692.M Thu Jun 19 11:59:14 2014 RT1

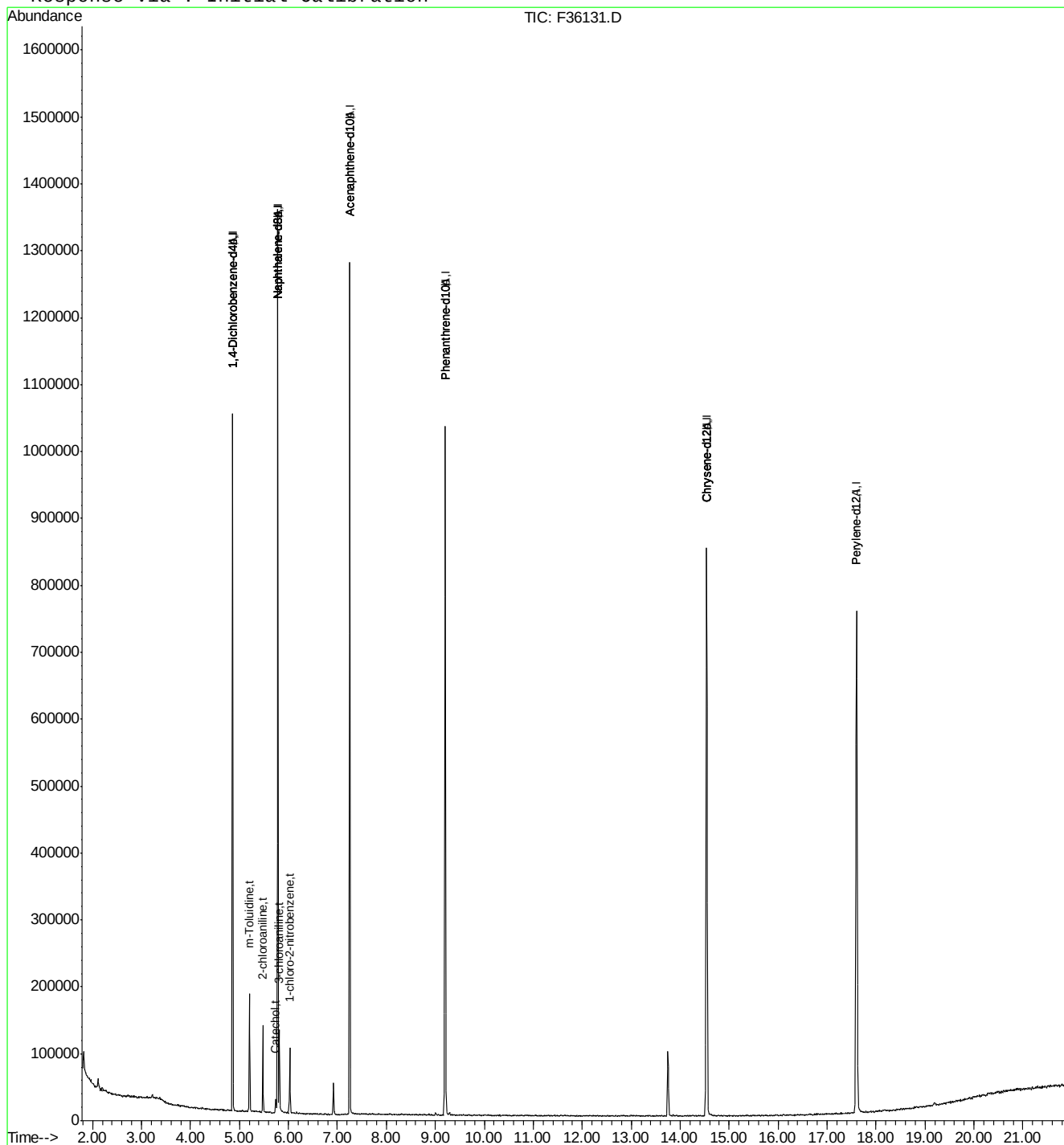
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5702\F36131.D
Acq On : 19 Jun 2014 2:34 am
Sample : ic5702-5
Misc : op74333,ef5702
MS Integration Params: LSCINT.P
Quant Time: Jun 19 11:35 2014

Vial: 15
Operator: ashleyd
Inst : MSF
Multiplr: 1.00

Quant Results File: MFAP5692.RES

Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 19 11:57:38 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5702\F36132.D

Vial: 16

Acq On : 19 Jun 2014 3:03 am

Operator: ashleyd

Sample : ic5702-2

Inst : MSF

Misc : op74333,ef5702

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Jun 19 11:35:31 2014

Quant Results File: MFAP5692.RES

Quant Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Thu Jun 19 11:29:00 2014

Response via : Initial Calibration

DataAcq Meth : MF5692

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.86	152	145552	40.00	ppb	0.00
24) Naphthalene-d8	5.78	136	529913	40.00	ppb	-0.01
47) Acenaphthene-d10	7.25	164	310363	40.00	ppb	-0.01
69) Phenanthrene-d10	9.20	188	505703	40.00	ppb	-0.02
83) Chrysene-d12	14.54	240	513246	40.00	ppb	-0.02
92) Perylene-d12	17.60	264	463012	40.00	ppb	-0.03
102) 1,4-Dichlorobenzene-d4A	4.86	152	145552	40.00	ppb	0.00
112) Naphthalene-d8A	5.78	136	529913	40.00	ppb	0.00
121) Acenaphthene-d10A	7.25	164	310363	40.00	ppb	0.00
132) Phenanthrene-d10A	9.20	188	505703	40.00	ppb	-0.01
147) Chrysene-d12A	14.54	240	513246	40.00	ppb	-0.01
155) Perylene-d12A	17.60	264	463012	40.00	ppb	-0.02
159) 1,4-Dichlorobenzene-d4b	4.86	152	145552	40.00	ppb	0.00
161) Naphthalene-d8b	5.78	136	529913	40.00	ppb	-0.01
163) Acenaphthene-d10b	7.25	164	310363	40.00	ppb	-0.01
165) Phenanthrene-d10b	9.20	188	505703	40.00	ppb	-0.02
167) Chrysene-d12b	14.54	240	513246	40.00	ppb	-0.02
169) 1,4-Dichlorobenzene-d4c	4.86	152	145552	40.00	ppb	0.00
171) Naphthalene-d8c	5.78	136	529913	40.00	ppb	-0.01
176) Chrysene-d12c	14.54	240	513246	40.00	ppb	-0.02
178) Naphthalene-d8a	5.78	136	529913	40.00	ppb	-0.03

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
8) Phenol-d5	0.00	99	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
25) Nitrobenzene-d5	0.00	82	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.00	172	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
85) Terphenyl-d14	0.00	244	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	

Target Compounds

						Qvalue
170) m-Toluidine	5.20	106	20592	2.97	ppb	98
172) 2-chloroaniline	5.48	127	17425	2.93	ppb	97
173) 3-chloroaniline	5.82	127	15199	2.68	ppb	96
174) Catechol	5.74	110	7236	1.52	ppb	97
175) 1-chloro-2-nitrobenzene	6.03	75	6138	2.63	ppb	87

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 F36132.D MFAP5692.M Thu Jun 19 11:59:18 2014 RT1

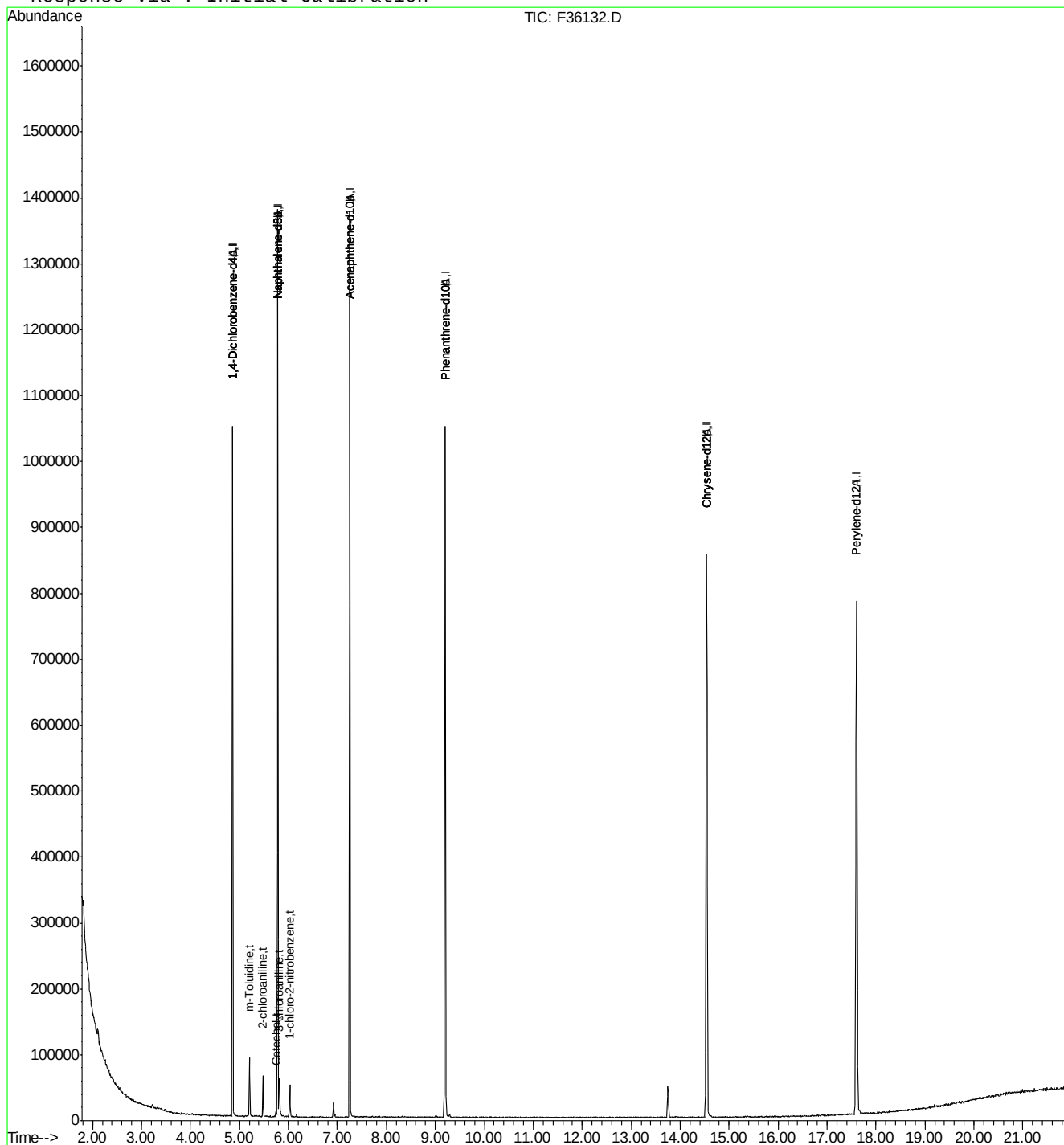
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5702\F36132.D
Acq On : 19 Jun 2014 3:03 am
Sample : ic5702-2
Misc : op74333,ef5702
MS Integration Params: LSCINT.P
Quant Time: Jun 19 11:36 2014

Vial: 16
Operator: ashleyd
Inst : MSF
Multiplr: 1.00

Quant Results File: MFAP5692.RES

Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 19 11:57:38 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5702\F36133.D

Vial: 17

Acq On : 19 Jun 2014 3:31 am

Operator: ashleyd

Sample : ic5702-1

Inst : MSF

Misc : op74333,ef5702

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Jun 19 11:36:14 2014

Quant Results File: MFAP5692.RES

Quant Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Thu Jun 19 11:29:00 2014

Response via : Initial Calibration

DataAcq Meth : MF5692

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.86	152	135724	40.00	ppb	0.00
24) Naphthalene-d8	5.78	136	496612	40.00	ppb	-0.01
47) Acenaphthene-d10	7.25	164	291199	40.00	ppb	-0.01
69) Phenanthrene-d10	9.20	188	468225	40.00	ppb	-0.02
83) Chrysene-d12	14.54	240	475428	40.00	ppb	-0.02
92) Perylene-d12	17.60	264	427033	40.00	ppb	-0.03
102) 1,4-Dichlorobenzene-d4A	4.86	152	135724	40.00	ppb	0.00
112) Naphthalene-d8A	5.78	136	496612	40.00	ppb	0.00
121) Acenaphthene-d10A	7.25	164	291199	40.00	ppb	0.00
132) Phenanthrene-d10A	9.20	188	468225	40.00	ppb	-0.01
147) Chrysene-d12A	14.54	240	475428	40.00	ppb	-0.02
155) Perylene-d12A	17.60	264	427033	40.00	ppb	-0.02
159) 1,4-Dichlorobenzene-d4b	4.86	152	135724	40.00	ppb	0.00
161) Naphthalene-d8b	5.78	136	496612	40.00	ppb	-0.01
163) Acenaphthene-d10b	7.25	164	291199	40.00	ppb	-0.01
165) Phenanthrene-d10b	9.20	188	468225	40.00	ppb	-0.02
167) Chrysene-d12b	14.54	240	475428	40.00	ppb	-0.02
169) 1,4-Dichlorobenzene-d4c	4.86	152	135724	40.00	ppb	0.00
171) Naphthalene-d8c	5.78	136	496612	40.00	ppb	-0.01
176) Chrysene-d12c	14.54	240	475428	40.00	ppb	-0.02
178) Naphthalene-d8a	5.78	136	496612	40.00	ppb	-0.03

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
8) Phenol-d5	0.00	99	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
25) Nitrobenzene-d5	0.00	82	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.00	172	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
85) Terphenyl-d14	0.00	244	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	

Target Compounds

						Qvalue
170) m-Toluidine	5.20	106	7829	1.21	ppb	98
172) 2-chloroaniline	5.48	127	6991	1.25	ppb	96
173) 3-chloroaniline	5.82	127	5881	1.11	ppb	97
175) 1-chloro-2-nitrobenzene	6.03	75	2070	0.94	ppb	83

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 F36133.D MFAP5692.M Thu Jun 19 11:59:22 2014 RT1

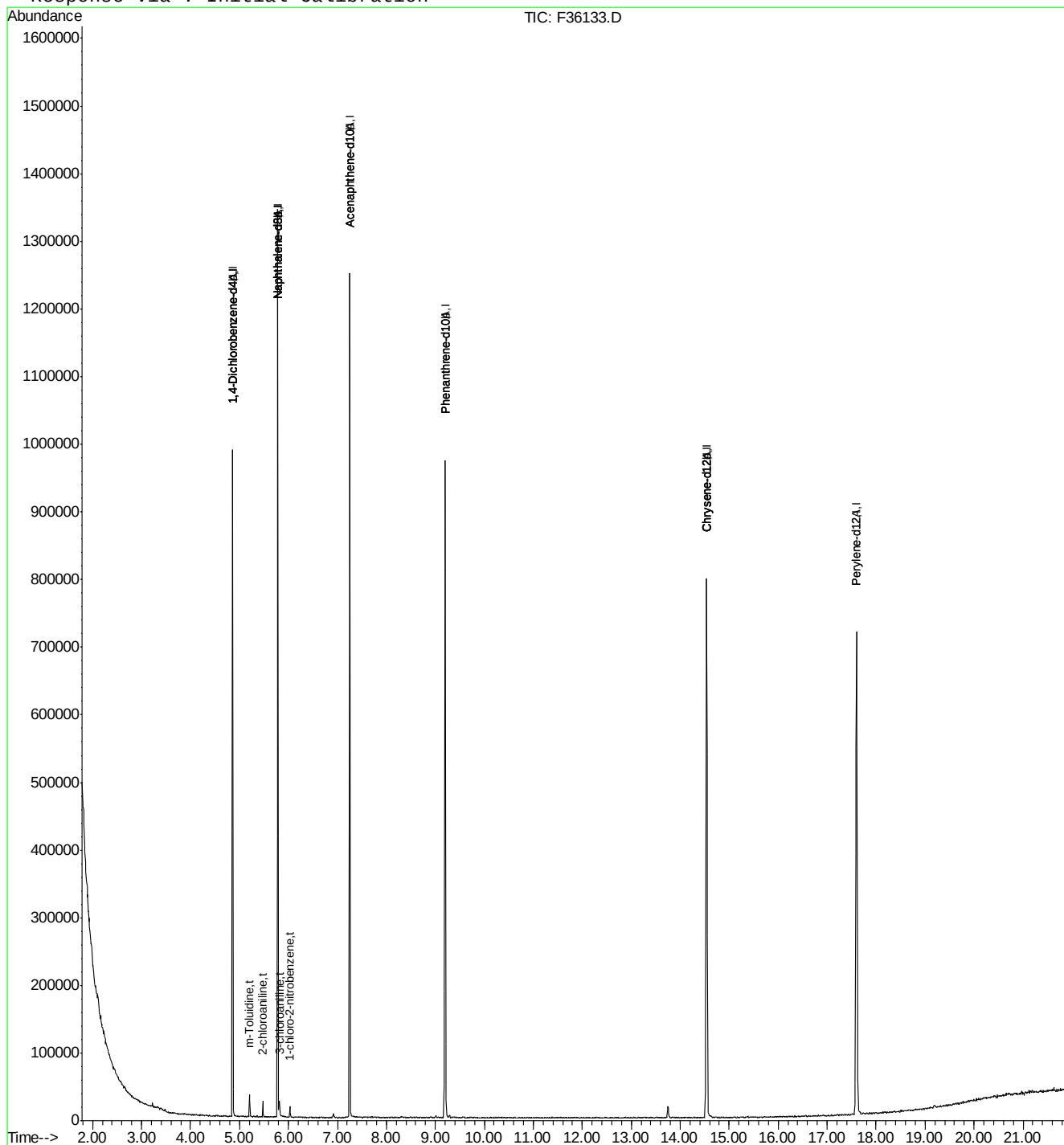
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5702\F36133.D
Acq On : 19 Jun 2014 3:31 am
Sample : ic5702-1
Misc : op74333,ef5702
MS Integration Params: LSCINT.P
Quant Time: Jun 19 11:36 2014

Vial: 17
Operator: ashleyd
Inst : MSF
Multiplr: 1.00

Quant Results File: MFAP5692.RES

Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 19 11:57:38 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5702\F36134.D

Vial: 18

Acq On : 19 Jun 2014 3:59 am

Operator: ashleyd

Sample : icv5702-50

Inst : MSF

Misc : op74333,ef5702

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Jun 19 12:03:23 2014

Quant Results File: MFAP5692.RES

Quant Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Thu Jun 19 12:03:18 2014

Response via : Initial Calibration

DataAcq Meth : MF5692

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.86	152	164227	40.00	ppb	0.00
24) Naphthalene-d8	5.78	136	577709	40.00	ppb	0.00
47) Acenaphthene-d10	7.25	164	331284	40.00	ppb	0.00
69) Phenanthrene-d10	9.20	188	504294	40.00	ppb	0.00
83) Chrysene-d12	14.54	240	442478	40.00	ppb	0.00
92) Perylene-d12	17.60	264	419513	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4A	4.86	152	164227	40.00	ppb	0.00
112) Naphthalene-d8A	5.78	136	577709	40.00	ppb	0.00
121) Acenaphthene-d10A	7.25	164	331284	40.00	ppb	0.00
132) Phenanthrene-d10A	9.20	188	504294	40.00	ppb	0.00
147) Chrysene-d12A	14.54	240	442478	40.00	ppb	0.00
155) Perylene-d12A	17.60	264	419513	40.00	ppb	0.00
159) 1,4-Dichlorobenzene-d4b	4.86	152	164227	40.00	ppb	0.00
161) Naphthalene-d8b	5.78	136	577709	40.00	ppb	0.00
163) Acenaphthene-d10b	7.25	164	331284	40.00	ppb	0.00
165) Phenanthrene-d10b	9.20	188	504294	40.00	ppb	0.00
167) Chrysene-d12b	14.54	240	442478	40.00	ppb	0.00
169) 1,4-Dichlorobenzene-d4c	4.86	152	164227	40.00	ppb	0.00
171) Naphthalene-d8c	5.78	136	577709	40.00	ppb	0.00
176) Chrysene-d12c	14.54	240	442478	40.00	ppb	0.00
178) Naphthalene-d8a	5.78	136	577709	40.00	ppb	-0.03

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
8) Phenol-d5	0.00	99	0d	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
25) Nitrobenzene-d5	0.00	82	0d	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.00	172	0d	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
85) Terphenyl-d14	0.00	244	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	

Target Compounds

						Qvalue
103) 2-Picoline	3.41	93	305799	47.27	ppb	99
104) Pentachloroethane	4.65	167	96881	41.26	ppb	99
105) Methyl methanesulfonate	3.75	80	121751	40.30	ppb	99
106) N-Nitrosodiethylamine	4.06	102	133831	46.97	ppb	98
107) N-Nitrosomethylethylamine	3.50	42	116769	43.42	ppb	94
108) Ethyl methanesulfonate	4.29	79	197733	45.91	ppb	99
109) N-Nitrosopyrrolidine	5.13	41	90526	41.81	ppb	98
110) N-Nitrosomorpholine	5.16	56	129730	40.91	ppb	99
114) N-Nitrosopiperidine	5.38	42	143142	47.01	ppb	97
115) A,A-Dimethylphenethylamine	5.67	58	563187	48.43	ppb	100
116) Hexachloropropene	5.87	213	155971	47.79	ppb	100
118) N-Nitrosodi-n-butylamine	6.07	84	209775	59.94	ppb	89
119) Safrole	6.24	162	201059	51.61	ppb	95

(#)=qualifier out of range (m)=manual integration

F36134.D MFAP5692.M

Tue Jun 24 11:45:28 2014

RT1

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5702\F36134.D Vial: 18
 Acq On : 19 Jun 2014 3:59 am Operator: ashleyd
 Sample : icv5702-50 Inst : MSF
 Misc : op74333,ef5702 Multiplr: 1.00
 MS Integration Params: LSCINT.P
 Quant Time: Jun 19 12:03:23 2014 Quant Results File: MFAP5692.RES

Quant Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)
 Title : Semi Volatile Extractables by GC/MS
 Last Update : Thu Jun 19 12:03:18 2014
 Response via : Initial Calibration
 DataAcq Meth : MF5692

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
120) Isosafrole	6.66	162	202984	78.04	ppb	98
125) Phenacetin	8.43	108	230655	43.42	ppb	99
126) 1,4-Naphthoquinone	6.87	158	134216	42.68	ppb	96
128) Pentachlorobenzene	7.43	250	186653	49.91	ppb	99
140) Isodrin	11.12	193	81516	50.63	ppb	97
141) Diallate	8.40	86	196176	49.58	ppb	97
143) Pronamide	9.02	173	214946	48.26	ppb	98
148) Aramite	12.33	185	40462	108.81	ppb	99
149) p-(Dimethylamine)azobenzen	12.61	120	207577	50.29	ppb	99
152) 2-Acetylaminofluorene	13.91	181	285407	50.19	ppb	97
154) Chlorobenzilate	12.75	251	188679	49.99	ppb	98
157) 3-Methylcholanthrene	18.21	268	317114	51.37	ppb	98

9.6.101
9

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 F36134.D MFAP5692.M Tue Jun 24 11:45:28 2014 RT1

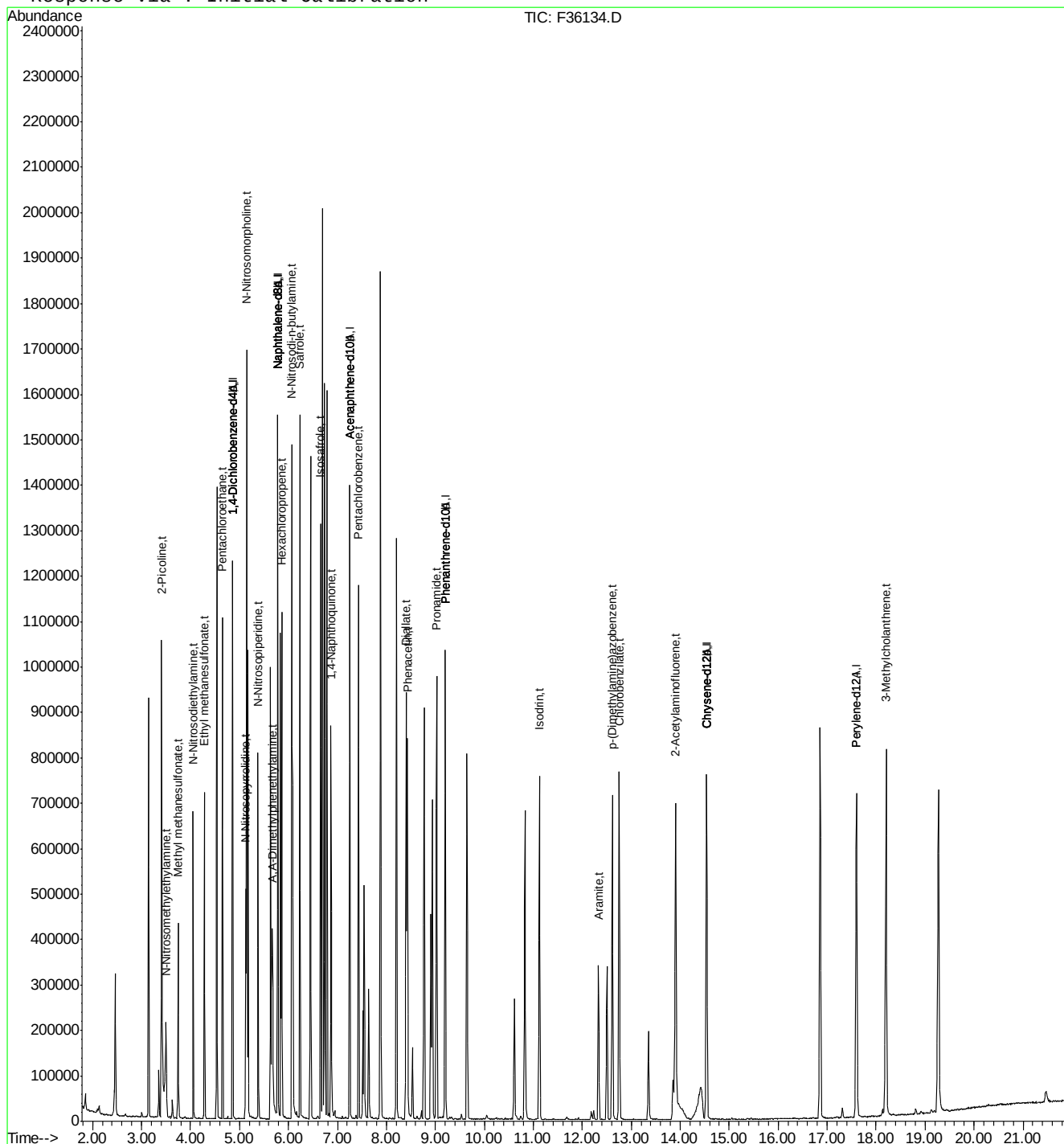
Quantitation Report (QT Reviewed)

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Data File   : C:\MSDCHEM\1\DATA\EF5702\F36134.D
Acq On      : 19 Jun 2014    3:59 am
Sample      : icv5702-50
Misc        : op74333,ef5702
MS Integration Params: LSCINT.P
Quant Time  : Jun 19 12:17 2014
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Vial: 18
Operator: ashleyd
Inst : MSF
Multiplr: 1.00

Quant Results File: MFAP5692.RES

Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jun 24 08:08:18 2014
Response via : Initial Calibration



F36134.D MFAP5692.M

Tue Jun 24 11:45:28 2014

RT1

Page 3

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5702\F36136.D Vial: 20
 Acq On : 19 Jun 2014 4:56 am Operator: ashleyd
 Sample : icv5702-50 Inst : MSF
 Misc : op74333,ef5702 Multiplr: 1.00
 MS Integration Params: LSCINT.P
 Quant Time: Jun 19 12:18:50 2014 Quant Results File: MFAP5692.RES

Quant Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)
 Title : Semi Volatile Extractables by GC/MS
 Last Update : Thu Jun 19 12:03:18 2014
 Response via : Initial Calibration
 DataAcq Meth : MF5692

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.86	152	173652	40.00	ppb	0.00
24) Naphthalene-d8	5.78	136	667205	40.00	ppb	0.00
47) Acenaphthene-d10	7.25	164	407748	40.00	ppb	0.00
69) Phenanthrene-d10	9.20	188	667472	40.00	ppb	0.00
83) Chrysene-d12	14.54	240	609387	40.00	ppb	0.00
92) Perylene-d12	17.60	264	542302	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4A	4.86	152	173652	40.00	ppb	0.00
112) Naphthalene-d8A	5.78	136	667205	40.00	ppb	0.00
121) Acenaphthene-d10A	7.25	164	407748	40.00	ppb	0.00
132) Phenanthrene-d10A	9.20	188	667472	40.00	ppb	0.00
147) Chrysene-d12A	14.54	240	609387	40.00	ppb	0.00
155) Perylene-d12A	17.60	264	542302	40.00	ppb	0.00
159) 1,4-Dichlorobenzene-d4b	4.86	152	173652	40.00	ppb	0.00
161) Naphthalene-d8b	5.78	136	667205	40.00	ppb	0.00
163) Acenaphthene-d10b	7.25	164	407748	40.00	ppb	0.00
165) Phenanthrene-d10b	9.20	188	667472	40.00	ppb	0.00
167) Chrysene-d12b	14.54	240	609387	40.00	ppb	0.00
169) 1,4-Dichlorobenzene-d4c	4.86	152	173652	40.00	ppb	0.00
171) Naphthalene-d8c	5.78	136	667205	40.00	ppb	0.00
176) Chrysene-d12c	14.54	240	609387	40.00	ppb	0.00
178) Naphthalene-d8a	5.78	136	667205	40.00	ppb	-0.03

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.00	99	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.00	82	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.00	172	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.00	244	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	

Target Compounds

						Qvalue
172) 2-chloroaniline	5.48	127	380304	44.40	ppb	98
173) 3-chloroaniline	5.82	127	372287	48.41	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 F36136.D MFAP5692.M Tue Jun 24 11:45:48 2014 RT1

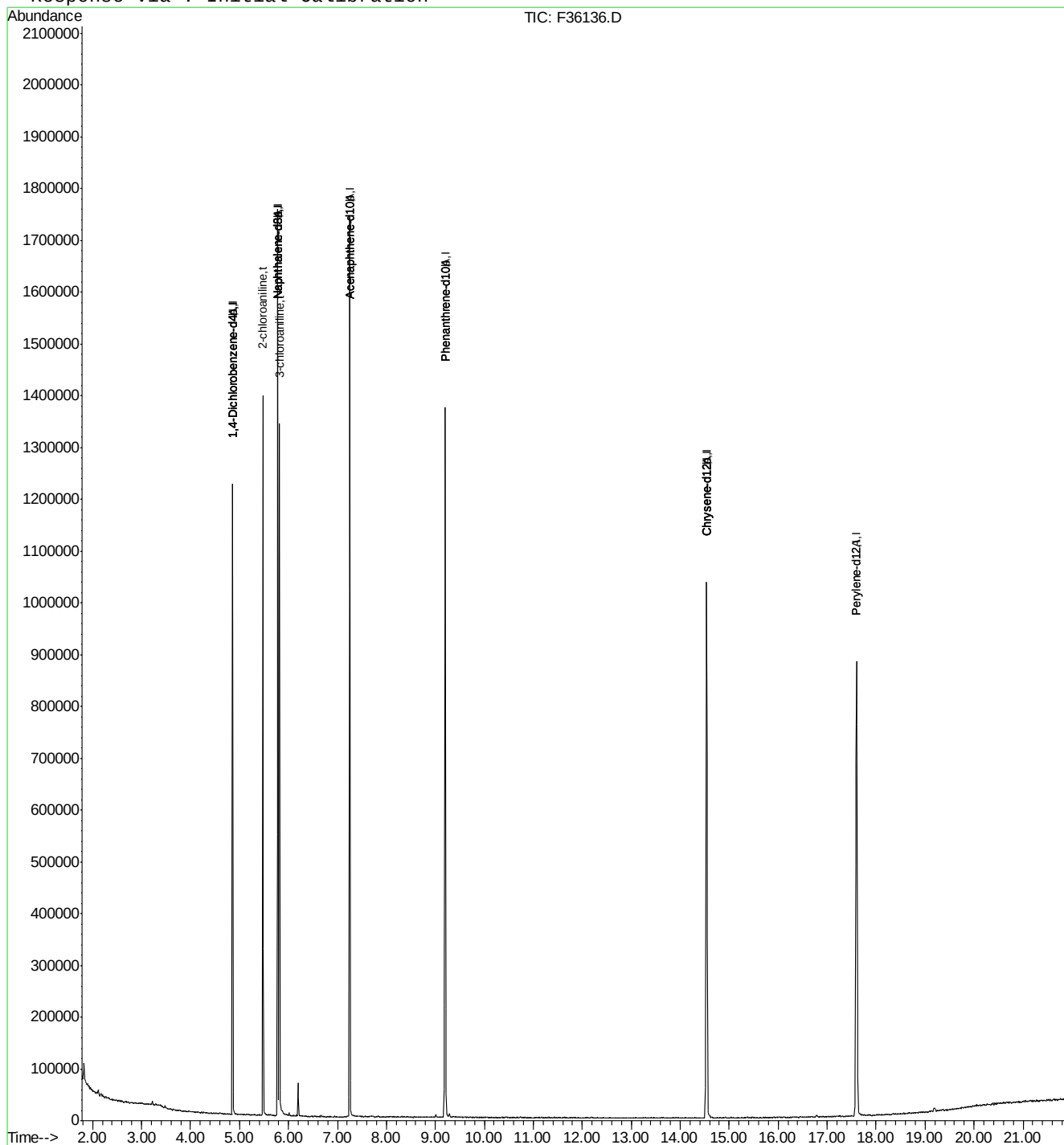
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5702\F36136.D
Acq On : 19 Jun 2014 4:56 am
Sample : icv5702-50
Misc : op74333,ef5702
MS Integration Params: LSCINT.P
Quant Time: Jun 19 12:19 2014

Vial: 20
Operator: ashleyd
Inst : MSF
Multiplr: 1.00

Quant Results File: MFAP5692.RES

Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jun 24 08:08:18 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5702\F36137.D

Vial: 21

Acq On : 19 Jun 2014 5:24 am

Operator: ashleyd

Sample : icv5702-50

Inst : MSF

Misc : op74333,ef5702

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Jun 24 11:59:34 2014

Quant Results File: MFAP5692.RES

Quant Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Tue Jun 24 11:50:07 2014

Response via : Initial Calibration

DataAcq Meth : MF5692

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.86	152	145888	40.00	ppb	0.04
24) Naphthalene-d8	5.78	136	538325	40.00	ppb	0.04
47) Acenaphthene-d10	7.25	164	317502	40.00	ppb	0.05
69) Phenanthrene-d10	9.20	188	509855	40.00	ppb	0.07
83) Chrysene-d12	14.54	240	480370	40.00	ppb	0.09
92) Perylene-d12	17.60	264	432182	40.00	ppb	0.09
102) 1,4-Dichlorobenzene-d4A	4.86	152	145888	40.00	ppb	0.00
112) Naphthalene-d8A	5.78	136	538325	40.00	ppb	0.00
121) Acenaphthene-d10A	7.25	164	317502	40.00	ppb	0.00
132) Phenanthrene-d10A	9.20	188	509855	40.00	ppb	0.00
147) Chrysene-d12A	14.54	240	480370	40.00	ppb	0.00
155) Perylene-d12A	17.60	264	432182	40.00	ppb	0.00
159) 1,4-Dichlorobenzene-d4b	4.86	152	145888	40.00	ppb	0.04
161) Naphthalene-d8b	5.78	136	538325	40.00	ppb	0.04
163) Acenaphthene-d10b	7.25	164	317502	40.00	ppb	0.05
165) Phenanthrene-d10b	9.20	188	509855	40.00	ppb	0.07
167) Chrysene-d12b	14.54	240	480370	40.00	ppb	0.09
169) 1,4-Dichlorobenzene-d4c	4.86	152	145888	40.00	ppb	0.00
171) Naphthalene-d8c	5.78	136	538325	40.00	ppb	0.00
176) Chrysene-d12c	14.54	240	480370	40.00	ppb	0.00
178) Naphthalene-d8a	5.78	136	538325	40.00	ppb	-0.03

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
8) Phenol-d5	0.00	99	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
25) Nitrobenzene-d5	0.00	82	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.00	172	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
85) Terphenyl-d14	0.00	244	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	

Target Compounds

						Qvalue
111) o-Toluidine	5.17	106	368751	49.12	ppb	# 7

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 F36137.D MFAP5692.M Tue Jun 24 12:00:19 2014 RT1

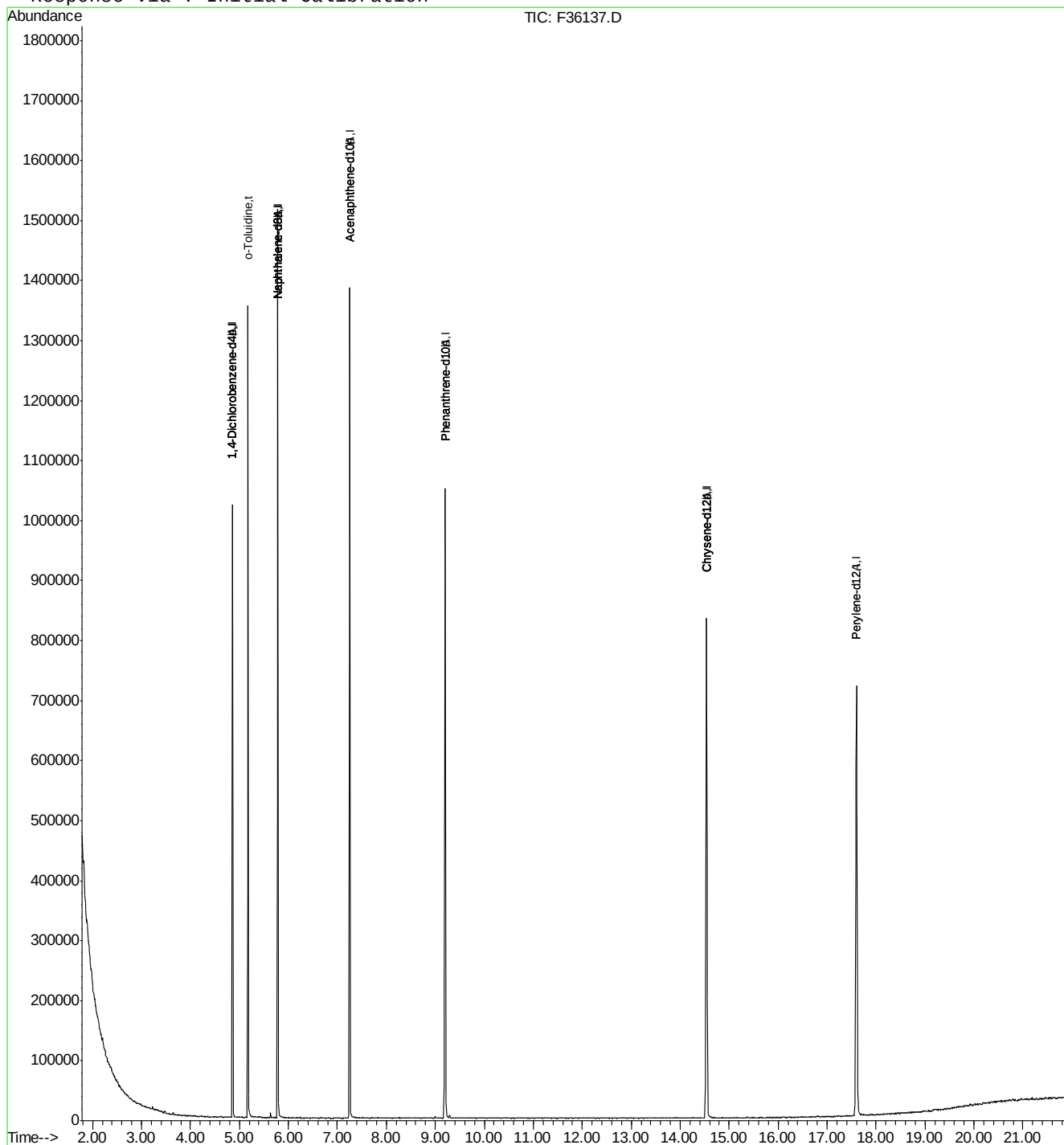
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5702\F36137.D
Acq On : 19 Jun 2014 5:24 am
Sample : icv5702-50
Misc : op74333,ef5702
MS Integration Params: LSCINT.P
Quant Time: Jun 24 12:00 2014

Vial: 21
Operator: ashleyd
Inst : MSF
Multiplr: 1.00

Quant Results File: MFAP5692.RES

Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jun 24 11:50:07 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5702\F36138.D Vial: 22
 Acq On : 19 Jun 2014 5:53 am Operator: ashleyd
 Sample : icv5702-50 Inst : MSF
 Misc : op74333,ef5702 Multiplr: 1.00
 MS Integration Params: LSCINT.P
 Quant Time: Jun 20 12:41:21 2014 Quant Results File: MFAP5692.RES

Quant Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)
 Title : Semi Volatile Extractables by GC/MS
 Last Update : Thu Jun 19 12:03:18 2014
 Response via : Initial Calibration
 DataAcq Meth : MF5692

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.86	152	141440	40.00	ppb	0.00
24) Naphthalene-d8	5.78	136	516038	40.00	ppb	0.00
47) Acenaphthene-d10	7.25	164	303438	40.00	ppb	0.00
69) Phenanthrene-d10	9.20	188	482814	40.00	ppb	0.00
83) Chrysene-d12	14.54	240	472605	40.00	ppb	0.00
92) Perylene-d12	17.60	264	422755	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4A	4.86	152	141440	40.00	ppb	0.00
112) Naphthalene-d8A	5.78	136	516038	40.00	ppb	0.00
121) Acenaphthene-d10A	7.25	164	303438	40.00	ppb	0.00
132) Phenanthrene-d10A	9.20	188	482814	40.00	ppb	0.00
147) Chrysene-d12A	14.54	240	472605	40.00	ppb	0.00
155) Perylene-d12A	17.60	264	422755	40.00	ppb	0.00
159) 1,4-Dichlorobenzene-d4b	4.86	152	141440	40.00	ppb	0.00
161) Naphthalene-d8b	5.78	136	516038	40.00	ppb	0.00
163) Acenaphthene-d10b	7.25	164	303438	40.00	ppb	0.00
165) Phenanthrene-d10b	9.20	188	482814	40.00	ppb	0.00
167) Chrysene-d12b	14.54	240	472605	40.00	ppb	0.00
169) 1,4-Dichlorobenzene-d4c	4.86	152	141440	40.00	ppb	0.00
171) Naphthalene-d8c	5.78	136	516038	40.00	ppb	0.00
176) Chrysene-d12c	14.54	240	472605	40.00	ppb	0.00
178) Naphthalene-d8a	5.78	136	516038	40.00	ppb	-0.03

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.00	99	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.00	82	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.00	172	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.00	244	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	

Target Compounds

170) m-Toluidine	5.20	106	277732	38.01	ppb	Qvalue 99
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(#) = qualifier out of range (m) = manual integration (+) = signals summed
 F36138.D MFAP5692.M Tue Jun 24 11:46:06 2014 RT1

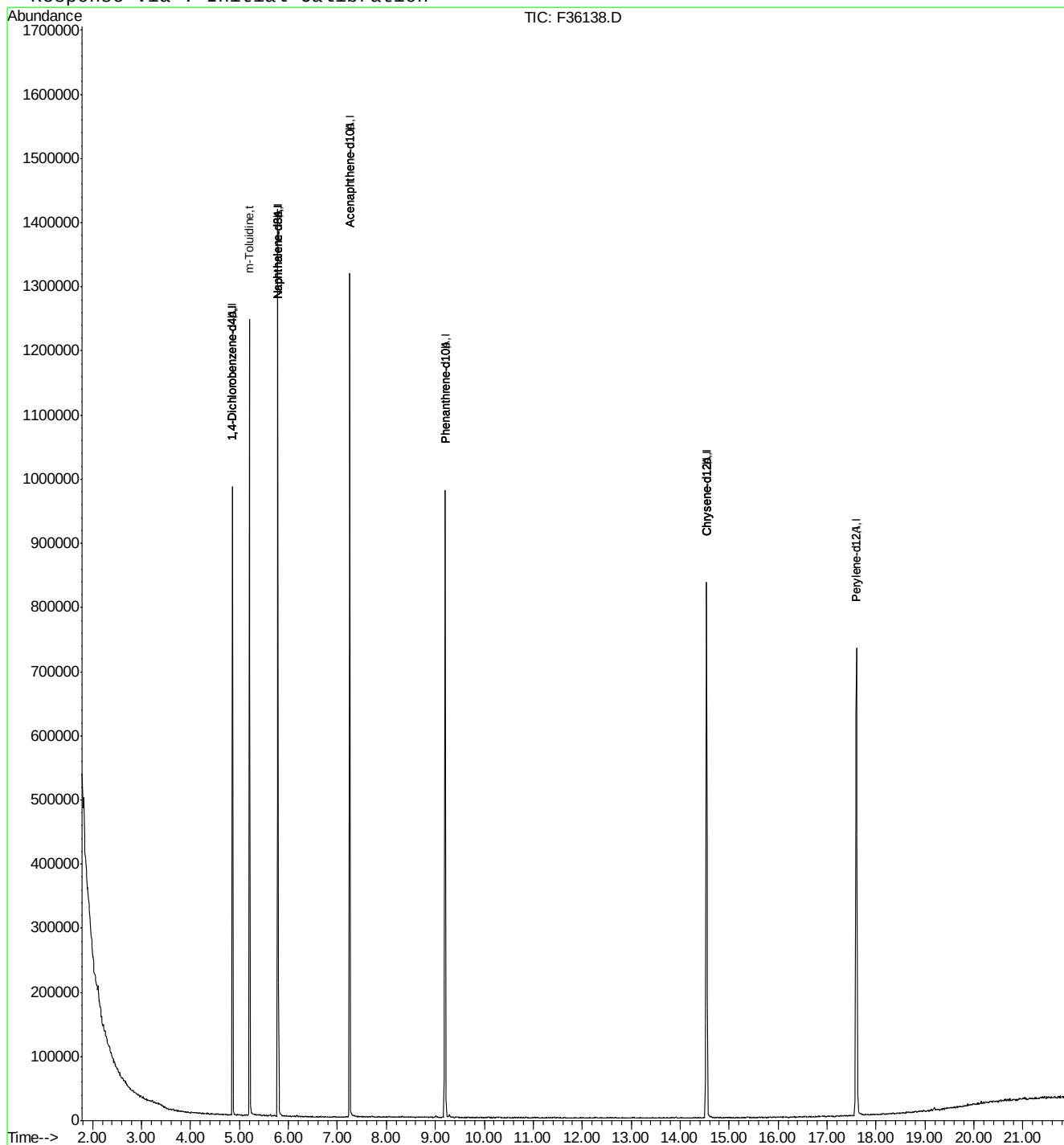
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5702\F36138.D
Acq On : 19 Jun 2014 5:53 am
Sample : icv5702-50
Misc : op74333,ef5702
MS Integration Params: LSCINT.P
Quant Time: Jun 20 12:45 2014

Vial: 22
Operator: ashleyd
Inst : MSF
Multiplr: 1.00

Quant Results File: MFAP5692.RES

Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jun 24 08:08:18 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5702\F36139.D

Vial: 23

Acq On : 19 Jun 2014 6:21 am

Operator: ashleyd

Sample : icv5702-50

Inst : MSF

Misc : op74333,ef5702

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Jun 20 12:46:11 2014

Quant Results File: MFAP5692.RES

Quant Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Thu Jun 19 12:03:18 2014

Response via : Initial Calibration

DataAcq Meth : MF5692

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.86	152	130724	40.00	ppb	0.00
24) Naphthalene-d8	5.78	136	486879	40.00	ppb	0.00
47) Acenaphthene-d10	7.25	164	284211	40.00	ppb	0.00
69) Phenanthrene-d10	9.20	188	454119	40.00	ppb	0.00
83) Chrysene-d12	14.54	240	458943	40.00	ppb	0.00
92) Perylene-d12	17.60	264	407316	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4A	4.86	152	130724	40.00	ppb	0.00
112) Naphthalene-d8A	5.78	136	486879	40.00	ppb	0.00
121) Acenaphthene-d10A	7.25	164	284211	40.00	ppb	0.00
132) Phenanthrene-d10A	9.20	188	454119	40.00	ppb	0.00
147) Chrysene-d12A	14.54	240	458943	40.00	ppb	0.00
155) Perylene-d12A	17.60	264	407316	40.00	ppb	0.00
159) 1,4-Dichlorobenzene-d4b	4.86	152	130724	40.00	ppb	0.00
161) Naphthalene-d8b	5.78	136	486879	40.00	ppb	0.00
163) Acenaphthene-d10b	7.25	164	284211	40.00	ppb	0.00
165) Phenanthrene-d10b	9.20	188	454119	40.00	ppb	0.00
167) Chrysene-d12b	14.54	240	458943	40.00	ppb	0.00
169) 1,4-Dichlorobenzene-d4c	4.86	152	130724	40.00	ppb	0.00
171) Naphthalene-d8c	5.78	136	486879	40.00	ppb	0.00
176) Chrysene-d12c	14.54	240	458943	40.00	ppb	0.00
178) Naphthalene-d8a	5.78	136	486879	40.00	ppb	-0.03

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.00	99	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.00	82	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.00	172	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.00	244	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	

Target Compounds

175) 1-chloro-2-nitrobenzene	6.03	75	118287	50.91	ppb	Qvalue 98
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(#) = qualifier out of range (m) = manual integration (+) = signals summed
 F36139.D MFAP5692.M Tue Jun 24 11:46:13 2014 RT1

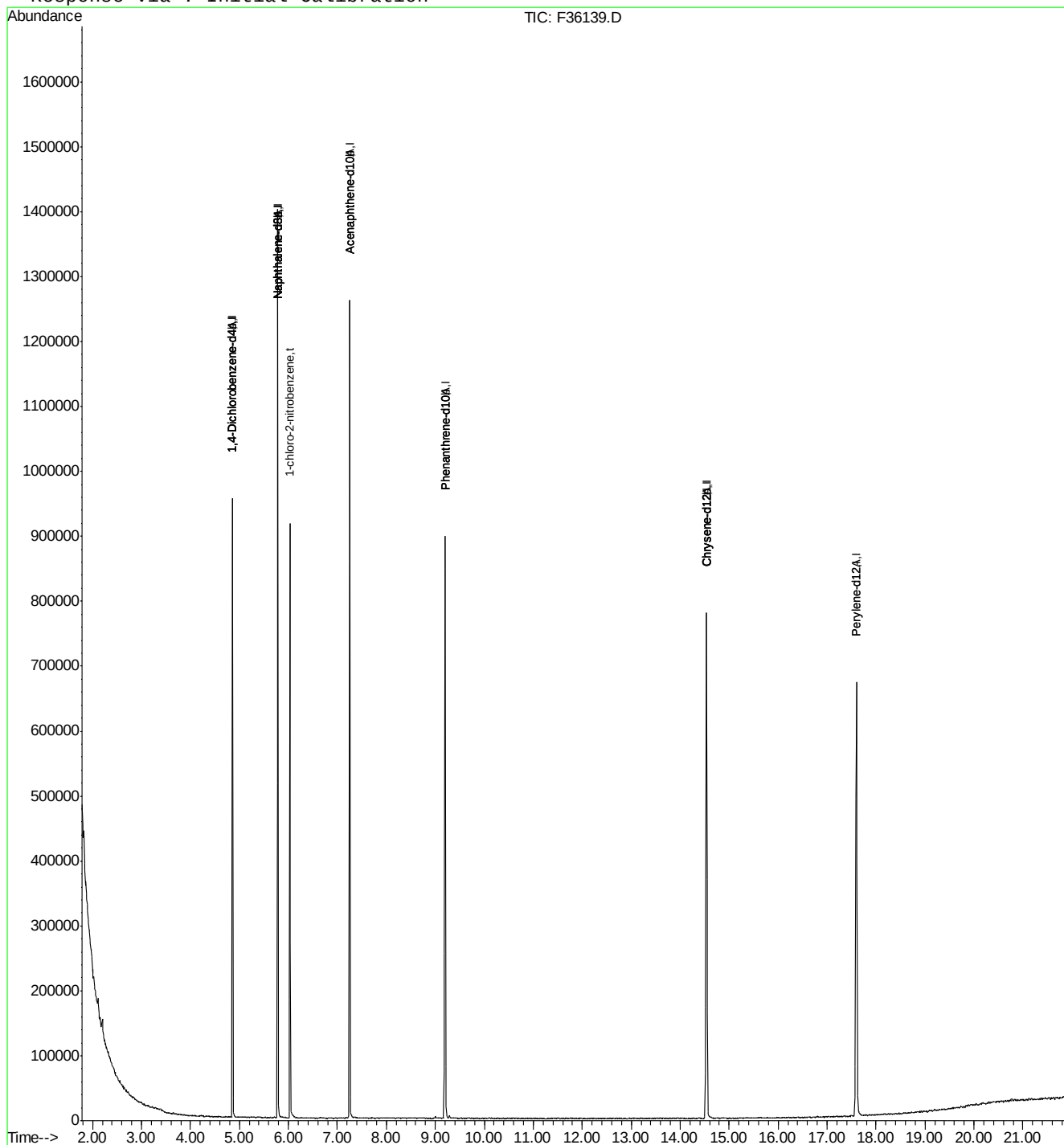
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5702\F36139.D
Acq On : 19 Jun 2014 6:21 am
Sample : icv5702-50
Misc : op74333,ef5702
MS Integration Params: LSCINT.P
Quant Time: Jun 20 12:47 2014

Vial: 23
Operator: ashleyd
Inst : MSF
Multiplr: 1.00

Quant Results File: MFAP5692.RES

Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jun 24 08:08:18 2014
Response via : Initial Calibration



F36139.D MFAP5692.M

Tue Jun 24 11:46:13 2014

RT1

Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5726\F36785.D

Vial: 2

Acq On : 6 Jul 2014 2:08 pm

Operator: ashleyd

Sample : cc5692-50

Inst : MSF

Misc : op74333,ef5726

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Jul 06 14:30:43 2014

Quant Results File: MF5692.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Sat Jul 05 11:45:00 2014

Response via : Initial Calibration

DataAcq Meth : MF5692

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.66	152	142516	40.00	ppb	0.00
24) Naphthalene-d8	5.59	136	532081	40.00	ppb	0.00
47) Acenaphthene-d10	6.99	164	300273	40.00	ppb	0.00
69) Phenanthrene-d10	8.85	188	492020	40.00	ppb	0.00
83) Chrysene-d12	14.10	240	501285	40.00	ppb	0.00
92) Perylene-d12	17.14	264	447307	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4b	4.66	152	142516	40.00	ppb	0.00
104) Naphthalene-d8b	5.59	136	532081	40.00	ppb	0.00
106) Acenaphthene-d10b	6.99	164	300273	40.00	ppb	0.00
108) Phenanthrene-d10b	8.85	188	492020	40.00	ppb	0.00
110) Chrysene-d12b	14.10	240	501285	40.00	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol	3.71	112	237507	46.19	ppb	0.00
Spiked Amount 50.000			Recovery =	92.38%		
8) Phenol-d5	4.42	99	305037	47.37	ppb	0.00
Spiked Amount 50.000			Recovery =	94.74%		
25) Nitrobenzene-d5	5.07	82	285297	50.83	ppb	0.00
Spiked Amount 50.000			Recovery =	101.66%		
51) 2-Fluorobiphenyl	6.38	172	479504	45.84	ppb	0.00
Spiked Amount 50.000			Recovery =	91.68%		
73) 2,4,6-Tribromophenol	7.88	330	60572	54.82	ppb	0.00
Spiked Amount 50.000			Recovery =	109.64%		
85) Terphenyl-d14	11.88	244	515632	45.24	ppb	0.00
Spiked Amount 50.000			Recovery =	90.48%		

Target Compounds

						Qvalue
2) 1,4-Dioxane	2.22	88	107895	42.40	ppb	86
3) Pyridine	2.56	79	276941	46.14	ppb	83
4) N-Nitrosodimethylamine	2.52	42	154755	60.34	ppb #	60
6) Indene	4.86	116	436085	46.93	ppb	97
7) Cumene	4.08	105	622877	48.65	ppb	97
9) Phenol	4.43	94	338341	47.88	ppb #	45
10) Aniline	4.43	93	345928	39.97	ppb #	44
11) bis(2-Chloroethyl)ether	4.47	93	230689	45.99	ppb	93
12) 2-Chlorophenol	4.53	128	254796	45.58	ppb	96
13) Decane	4.55	43	333481	57.92	ppb	86
14) 1,3-Dichlorobenzene	4.63	146	275963	44.79	ppb	99
15) 1,4-Dichlorobenzene	4.68	146	278726	45.57	ppb	99
16) Benzyl alcohol	4.77	108	172299	46.28	ppb	73
17) 1,2-Dichlorobenzene	4.79	146	258330	44.86	ppb	99
18) Acetophenone	4.96	105	360474	49.30	ppb	98
19) 2-Methylphenol	4.87	108	230290	45.52	ppb	97
20) 2,2'-oxybis(1-Chloropropan	4.86	121	80524	47.41	ppb #	34
21) 3&4-Methylphenol	4.97	108	249169	47.95	ppb	98
22) n-Nitroso-di-n-propylamine	4.96	70	187245	52.93	ppb #	78
23) Hexachloroethane	5.04	201	93604	48.54	ppb	96
26) Nitrobenzene	5.09	77	289630	50.65	ppb	90
27) Quinoline	5.84	129	505164	44.91	ppb	97
28) Isophorone	5.26	82	480182	48.38	ppb	96

(#) = qualifier out of range (m) = manual integration

F36785.D MF5692.M

Mon Jul 07 14:24:26 2014

RT1

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5726\F36785.D

Vial: 2

Acq On : 6 Jul 2014 2:08 pm

Operator: ashleyd

Sample : cc5692-50

Inst : MSF

Misc : op74333,ef5726

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Jul 06 14:30:43 2014

Quant Results File: MF5692.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Sat Jul 05 11:45:00 2014

Response via : Initial Calibration

DataAcq Meth : MF5692

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
29) 2-Nitrophenol	5.32	139	137428	50.25	ppb	75
30) 2,4-Dimethylphenol	5.35	107	239951	46.20	ppb	92
31) Benzoic acid	5.44	105	225339	63.76	ppb	94
32) bis(2-Chloroethoxy)methane	5.41	93	270091	46.27	ppb	97
33) 2,4-Dichlorophenol	5.50	162	199979	47.37	ppb	99
34) 2,6-Dichlorophenol	5.65	162	194800	49.04	ppb	99
35) 1,3,5-Trichlorobenzene	5.32	180	223473	44.22	ppb	97
36) 1,2,4-Trichlorobenzene	5.55	180	209168	43.24	ppb	98
37) 1,2,3-Trichlorobenzene	5.71	180	210261	44.68	ppb	97
38) Naphthalene	5.60	128	709102	44.61	ppb	99
39) 4-Chloroaniline	5.64	127	303009	44.32	ppb	96
40) 2,3-Dichloroaniline	6.32	161	246771	45.61	ppb	96
41) Caprolactam	5.90	55	144007	57.44	ppb	89
42) Hexachlorobutadiene	5.69	225	119177	48.56	ppb	98
43) 4-Chloro-3-methylphenol	6.00	107	228670	51.87	ppb	88
44) 2-Methylnaphthalene	6.10	141	407511	44.02	ppb	96
45) 1-Methylnaphthalene	6.18	142	469834	44.01	ppb	96
46) Dimethylnaphthalene	6.60	156	426428	44.87	ppb	94
48) Hexachlorocyclopentadiene	6.22	237	246400	111.83	ppb	99
49) 2,4,6-Trichlorophenol	6.33	196	137011	48.68	ppb	98
50) 2,4,5-Trichlorophenol	6.37	196	149280	51.37	ppb	99
52) 2-Chloronaphthalene	6.49	162	427211	44.69	ppb	95
53) Biphenyl	6.46	154	579207	45.17	ppb	100
54) 2-Nitroaniline	6.58	65	170325	64.48	ppb	88
55) Dimethylphthalate	6.72	163	482678	48.93	ppb	99
56) Acenaphthylene	6.85	152	703771	46.13	ppb	99
57) 2,6-Dinitrotoluene	6.78	165	115356	52.51	ppb	83
58) 3-Nitroaniline	6.95	138	136394	50.98	ppb	95
59) Acenaphthene	7.02	153	439717	45.54	ppb	93
60) 2,4-Dinitrophenol	7.05	184	141578	111.58	ppb #	18
61) 4-Nitrophenol	7.14	109	86685	69.65	ppb #	63
62) Dibenzofuran	7.20	168	594098	44.47	ppb	96
63) 2,4-Dinitrotoluene	7.18	165	155948	53.65	ppb	82
64) 2,3,4,6-Tetrachlorophenol	7.34	232	117062	52.36	ppb	91
65) Diethylphthalate	7.44	149	503416	51.42	ppb	99
66) Fluorene	7.58	166	495030	46.60	ppb	99
67) 4-Chlorophenyl-phenylether	7.57	204	224161	47.49	ppb	88
68) 4-Nitroaniline	7.61	138	129441	48.02	ppb	83
70) 4,6-Dinitro-2-methylphenol	7.65	198	91231	50.83	ppb	97
71) n-Nitrosodiphenylamine	7.71	169	336850	47.57	ppb	100
72) 1,2-Diphenylhydrazine	7.77	77	573720	52.25	ppb	98
74) 4-Bromophenyl-phenylether	8.20	248	125954	47.41	ppb	91
75) Hexachlorobenzene	8.30	284	132533	45.00	ppb	94
76) Pentachlorophenol	8.59	266	171193	107.54	ppb	99
77) Phenanthrene	8.89	178	692790	45.48	ppb	99
78) Anthracene	8.97	178	709397	46.95	ppb	98
79) Carbazole	9.25	167	679438	46.95	ppb	98
80) Di-n-butylphthalate	9.93	149	860271	55.41	ppb	99
81) Fluoranthene	11.02	202	752432	48.69	ppb	96

(#) = qualifier out of range (m) = manual integration

F36785.D MF5692.M

Mon Jul 07 14:24:26 2014

RT1

Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5726\F36785.D Vial: 2
 Acq On : 6 Jul 2014 2:08 pm Operator: ashleyd
 Sample : cc5692-50 Inst : MSF
 Misc : op74333,ef5726 Multiplr: 1.00
 MS Integration Params: LSCINT.P
 Quant Time: Jul 06 14:30:43 2014 Quant Results File: MF5692.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)
 Title : Semi Volatile Extractables by GC/MS
 Last Update : Sat Jul 05 11:45:00 2014
 Response via : Initial Calibration
 DataAcq Meth : MF5692

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
82) Octadecane	8.74	57	408249	58.28	ppb	90
84) Pyrene	11.46	202	795161	44.39	ppb	96
86) Butylbenzylphthalate	13.04	149	404692	56.15	ppb	93
87) Butyl stearate	13.32	56	433115	86.37	ppb	97
88) Benzo[a]anthracene	14.08	228	702339	44.13	ppb	99
89) 3,3'-Dichlorobenzidine	14.11	252	271008	53.19	ppb	100
90) Chrysene	14.15	228	649813	42.51	ppb	100
91) bis(2-Ethylhexyl)phthalate	14.44	149	563942	59.03	ppb	95
93) Di-n-octylphthalate	15.88	149	973124	55.95	ppb	96
94) Benzo[b]fluoranthene	16.39	252	751435	43.09	ppb	99
95) Benzo[k]fluoranthene	16.45	252	725773	42.29	ppb	97
96) Benzo[a]pyrene	17.03	252	669338	45.43	ppb	99
97) Indeno[1,2,3-cd]pyrene	19.09	276	641557	49.06	ppb	93
98) Dibenz(a,h)acridine	18.72	279	585749	49.76	ppb	99
99) Dibenz[a,h]anthracene	19.14	278	651344	48.38	ppb	97
100) 7,12-Dimethylbenz(a)anthra	16.40	256	348448	44.02	ppb	97
101) Benzo[g,h,i]perylene	19.52	276	636667	45.74	ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 F36785.D MF5692.M Mon Jul 07 14:24:26 2014 RT1

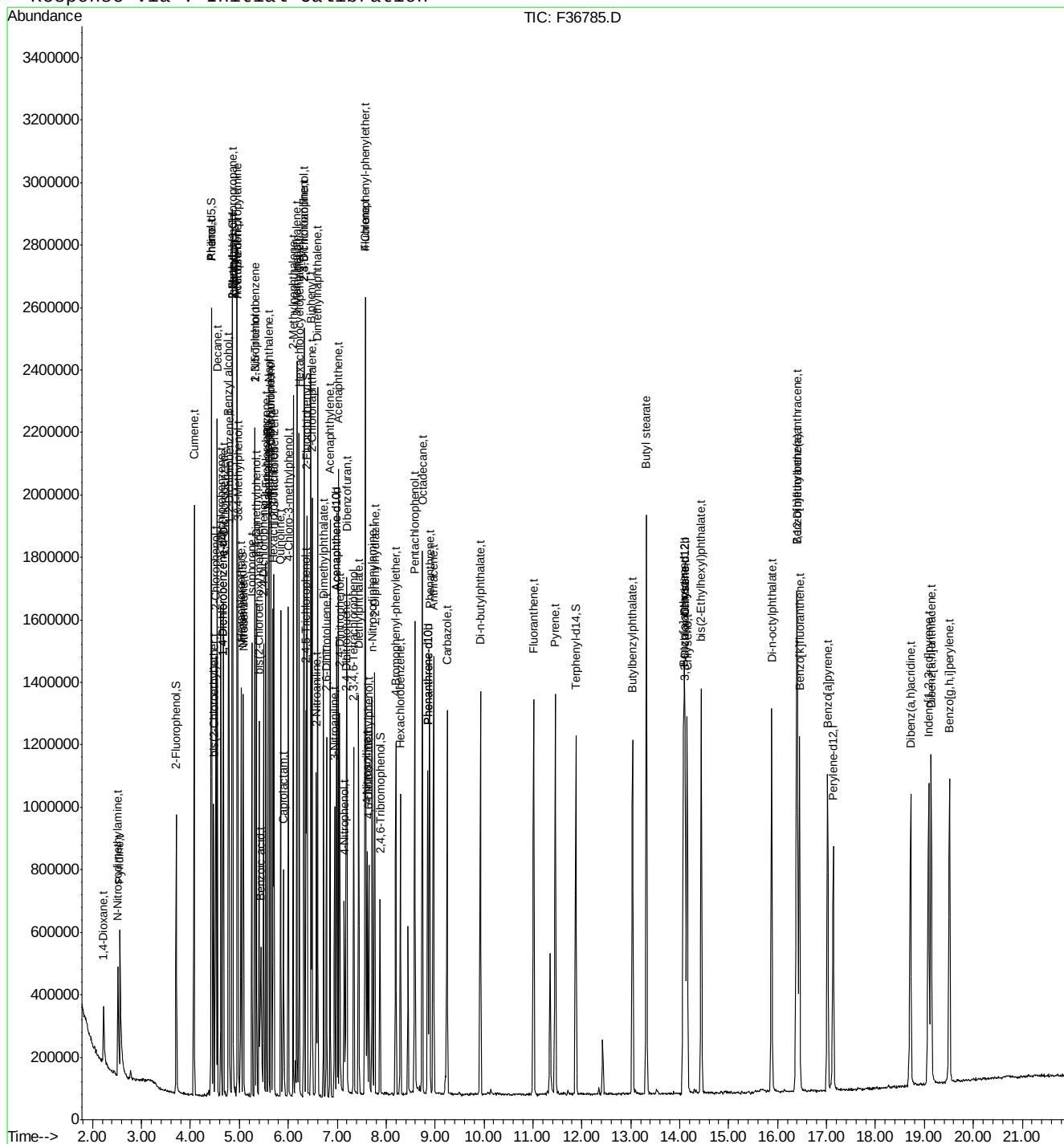
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5726\F36785.D
Acq On : 6 Jul 2014 2:08 pm
Sample : cc5692-50
Misc : op74333,ef5726
MS Integration Params: LSCINT.P
Quant Time: Jul 7 14:23 2014

Vial: 2
Operator: ashleyd
Inst : MSF
Multiplr: 1.00

Quant Results File: MF5692.RES

Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sat Jul 05 11:45:00 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5726\F36786.D Vial: 3
 Acq On : 6 Jul 2014 2:37 pm Operator: ashleyd
 Sample : cc5693-50 Inst : MSF
 Misc : op74333,ef5726 Multiplr: 1.00
 MS Integration Params: LSCINT.P
 Quant Time: Jul 06 14:59:37 2014 Quant Results File: MF5692.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)
 Title : Semi Volatile Extractables by GC/MS
 Last Update : Sat Jul 05 11:45:00 2014
 Response via : Initial Calibration
 DataAcq Meth : MF5692

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.66	152	224800	40.00	ppb	0.00
24) Naphthalene-d8	5.58	136	818916	40.00	ppb	-0.01
47) Acenaphthene-d10	6.99	164	476934	40.00	ppb	0.00
69) Phenanthrene-d10	8.85	188	771425	40.00	ppb	-0.01
83) Chrysene-d12	14.09	240	783468	40.00	ppb	-0.01
92) Perylene-d12	17.14	264	730276	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4b	4.66	152	224800	40.00	ppb	0.00
104) Naphthalene-d8b	5.58	136	818916	40.00	ppb	-0.01
106) Acenaphthene-d10b	6.99	164	476934	40.00	ppb	0.00
108) Phenanthrene-d10b	8.85	188	771425	40.00	ppb	-0.01
110) Chrysene-d12b	14.09	240	783468	40.00	ppb	-0.01

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.00	99	0d	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.00	82	0d	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.00	172	0d	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.00	244	0d	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	

Target Compounds

						Qvalue
103) Benzaldehyde	4.34	105	231141	41.85	ppb	95
107) 1,2,4,5-Tetrachlorobenzene	6.23	216	320556	47.65	ppb	98
109) Atrazine	8.46	200	218941	58.12	ppb	96
111) Benzidine	11.35	184	523557	57.52	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 F36786.D MF5692.M Tue Jul 08 09:04:49 2014 RT1

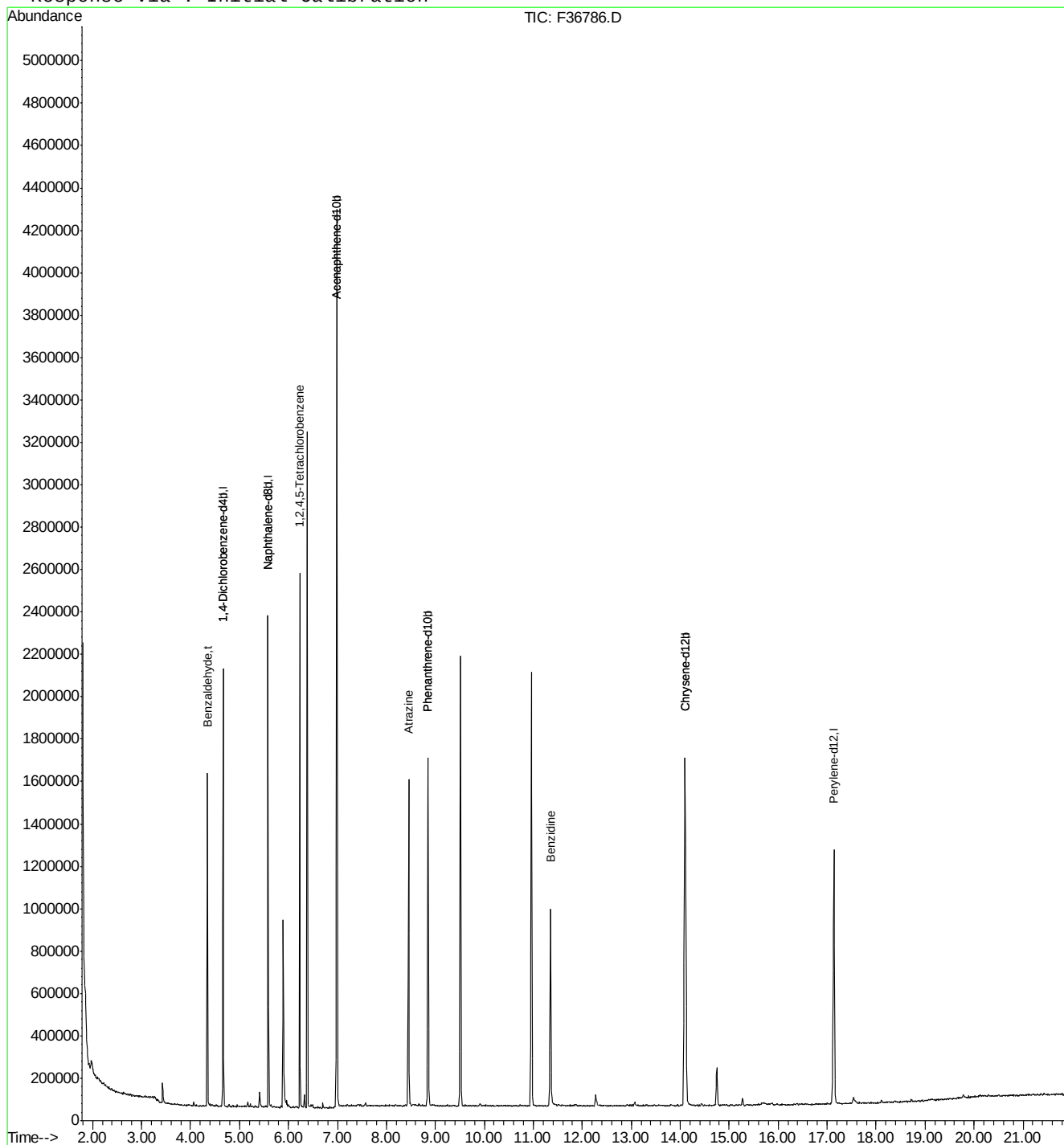
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5726\F36786.D
Acq On : 6 Jul 2014 2:37 pm
Sample : cc5693-50
Misc : op74333,ef5726
MS Integration Params: LSCINT.P
Quant Time: Jul 7 14:25 2014

Vial: 3
Operator: ashleyd
Inst : MSF
Multiplr: 1.00

Quant Results File: MF5692.RES

Method : C:\MSDCHEM\1\METHODS\MF5692.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sat Jul 05 11:45:00 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5726\F36787.D

Vial: 4

Acq On : 6 Jul 2014 3:06 pm

Operator: ashleyd

Sample : cc5702-50

Inst : MSF

Misc : op74333,ef5726

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Jul 07 14:27:11 2014

Quant Results File: MFAP5692.RES

Quant Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Sun Jun 29 10:32:38 2014

Response via : Initial Calibration

DataAcq Meth : MF5692

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.66	152	160789	40.00	ppb	-0.07
24) Naphthalene-d8	5.59	136	592445	40.00	ppb	-0.06
47) Acenaphthene-d10	6.99	164	349033	40.00	ppb	-0.09
69) Phenanthrene-d10	8.85	188	564625	40.00	ppb	-0.12
83) Chrysene-d12	14.09	240	552976	40.00	ppb	-0.16
92) Perylene-d12	17.14	264	497875	40.00	ppb	-0.17
102) 1,4-Dichlorobenzene-d4A	4.66	152	160789	40.00	ppb	-0.07
112) Naphthalene-d8A	5.59	136	592445	40.00	ppb	-0.06
121) Acenaphthene-d10A	6.99	164	349033	40.00	ppb	-0.09
132) Phenanthrene-d10A	8.85	188	564625	40.00	ppb	-0.12
147) Chrysene-d12A	14.09	240	552976	40.00	ppb	-0.16
155) Perylene-d12A	17.14	264	497875	40.00	ppb	-0.17
159) 1,4-Dichlorobenzene-d4b	4.66	152	160789	40.00	ppb	-0.07
161) Naphthalene-d8b	5.59	136	592445	40.00	ppb	-0.06
163) Acenaphthene-d10b	6.99	164	349033	40.00	ppb	-0.09
165) Phenanthrene-d10b	8.85	188	564625	40.00	ppb	-0.12
167) Chrysene-d12b	14.09	240	552976	40.00	ppb	-0.16
169) 1,4-Dichlorobenzene-d4c	4.66	152	160789	40.00	ppb	-0.07
171) Naphthalene-d8c	5.59	136	592445	40.00	ppb	-0.06
176) Chrysene-d12c	14.09	240	552976	40.00	ppb	-0.16
178) Naphthalene-d8a	5.59	136	592445	40.00	ppb	-0.22

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
8) Phenol-d5	0.00	99	0d	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
25) Nitrobenzene-d5	0.00	82	0d	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.00	172	0d	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
85) Terphenyl-d14	0.00	244	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	

Target Compounds

						Qvalue
103) 2-Picoline	3.21	93	293923	46.40	ppb	96
104) Pentachloroethane	4.46	167	109267	47.52	ppb	94
105) Methyl methanesulfonate	3.55	80	148600	50.24	ppb	93
106) N-Nitrosodiethylamine	3.86	102	130301	46.71	ppb	83
107) N-Nitrosomethylethylamine	3.30	42	179318	68.10	ppb	# 81
108) Ethyl methanesulfonate	4.10	79	217585	51.60	ppb	96
109) N-Nitrosopyrrolidine	4.95	41	126986m	59.90	ppb	
110) N-Nitrosomorpholine	4.97	56	185660	59.81	ppb	95
111) o-Toluidine	4.99	106	349846	42.29	ppb	# 4
113) O,O,O-Triethyl phosphoroth	5.38	198	117147	44.15	ppb	83
114) N-Nitrosopiperidine	5.19	42	216832	69.44	ppb	80
116) Hexachloropropene	5.67	213	169853	50.75	ppb	99
118) N-Nitrosodi-n-butylamine	5.87	84	190002	52.94	ppb	83

(#) = qualifier out of range (m) = manual integration

F36787.D MFAP5692.M

Mon Jul 07 14:29:32 2014

RT1

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5726\F36787.D Vial: 4
 Acq On : 6 Jul 2014 3:06 pm Operator: ashleyd
 Sample : cc5702-50 Inst : MSF
 Misc : op74333,ef5726 Multiplr: 1.00
 MS Integration Params: LSCINT.P
 Quant Time: Jul 07 14:27:11 2014 Quant Results File: MFAP5692.RES

Quant Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)
 Title : Semi Volatile Extractables by GC/MS
 Last Update : Sun Jun 29 10:32:38 2014
 Response via : Initial Calibration
 DataAcq Meth : MF5692

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
119) Safrrole	6.03	162	186998	46.81	ppb	88
120) Isosafrole	6.43	162	122523	45.93	ppb	90
122) Thionazin	7.53	143	73342	51.80	ppb	99
123) Tetraethyl dithiopyrophosp	7.92	322	65563	45.49	ppb	100
124) Phorate	8.10	75	478337	73.59	ppb	100
125) Phenacetin	8.14	108	304431	54.39	ppb	98
126) 1,4-Naphthoquinone	6.64	158	157154	47.43	ppb	83
127) m-Dinitrobenzene	6.76	168	79817	49.32	ppb	82
128) Pentachlorobenzene	7.16	250	181112	45.96	ppb	99
129) 1-Naphthylamine	7.28	143	303547	39.87	ppb	93
130) 2-Naphthylamine	7.36	143	342644	36.62	ppb	94
131) 5-Nitro-o-toluidine	7.59	152	152649	47.50	ppb	92
133) Disulfoton	8.88	88	248594	46.51	ppb	94
134) Dinoseb	8.88	211	135334	55.42	ppb	97
135) Dimethoate	8.34	87	207219	47.53	ppb	94
136) 4-Aminobiphenyl	8.58	169	458863	82.03	ppb	99
137) Methyl parathion	9.50	125	156142	50.86	ppb	95
138) Parathion	10.24	109	123641	54.02	ppb	99
139) Diphenylamine	7.71	169	790590	47.56	ppb	100
140) Isodrin	10.71	193	87873	48.75	ppb	96
141) Diallate	8.09	86	225894	50.99	ppb	# 63
142) Pentachloronitrobenzene	8.60	295	49918	96.02	ppb	95
143) Pronamide	8.69	173	255922	51.32	ppb	99
144) 4-Nitroquinoline 1-oxide	10.25	190	233859	186.32	ppb	81
146) sym-Trinitrobenzene	8.09	213	47845	51.61	ppb	# 1
148) Aramite	11.92	185	45304	97.49	ppb	97
149) p-(Dimethylamine)azobenzen	12.20	120	272341	52.79	ppb	90
152) 2-Acetylaminofluorene	13.49	181	356978	50.23	ppb	98
154) Chlorobenzilate	12.34	251	226651	48.05	ppb	88
156) 4,4-Methylene-bis-(2-chlor	14.14	266	59668	40.95	ppb	98
157) 3-Methylcholanthrene	17.74	268	347145	47.39	ppb	98

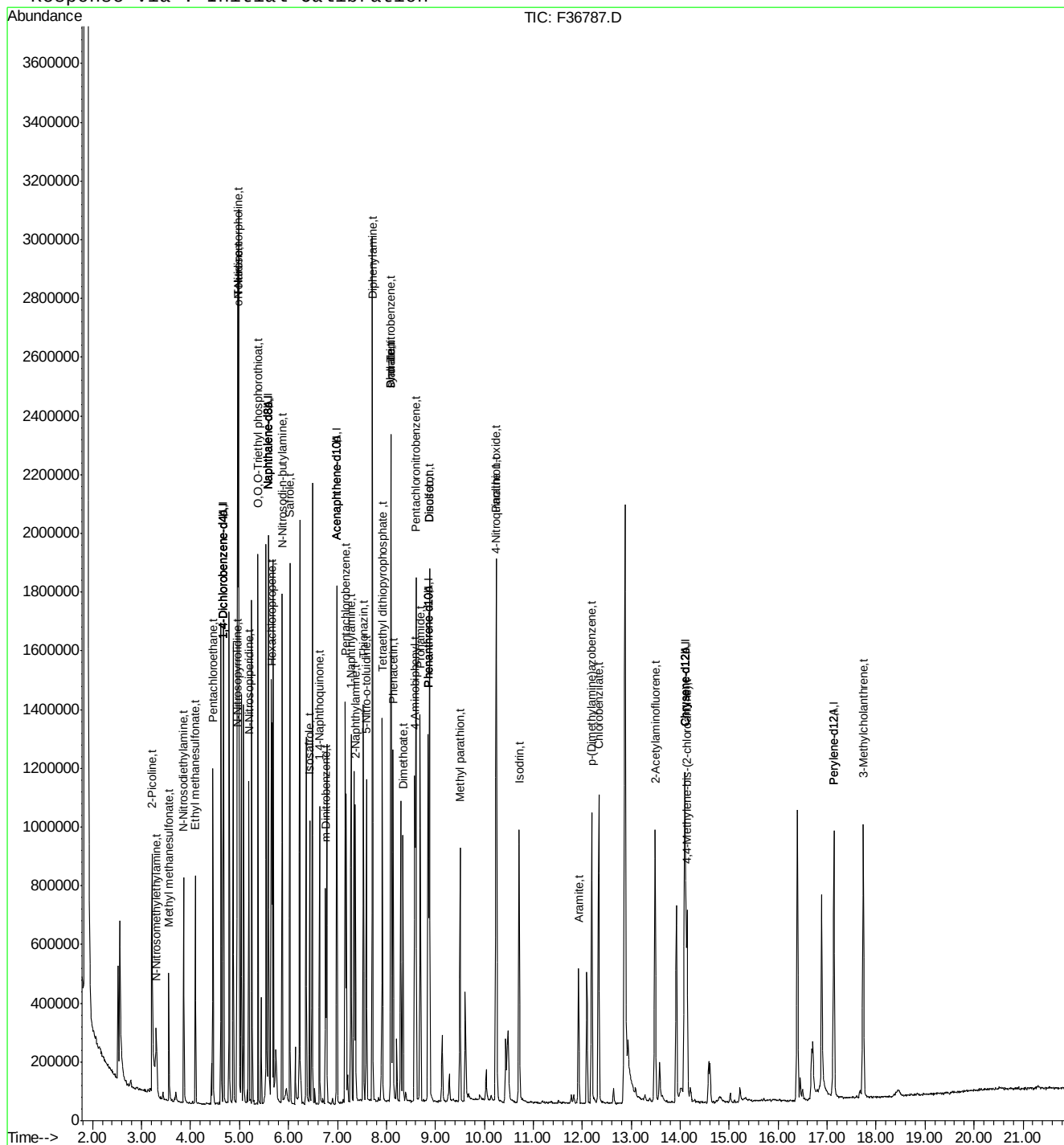
(#) = qualifier out of range (m) = manual integration (+) = signals summed
 F36787.D MFAP5692.M Mon Jul 07 14:29:32 2014 RT1

(QT Reviewed)

Vial: 4
Operator: ashleyd
Inst : MSF
Multiplr: 1.00

Quant Results File: MFAP5692.RES

Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 29 10:32:38 2014
Response via : Initial Calibration



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9.6.108

Manual Integration Approval Summary

Sample Number: EF5726-CC5702

Method: SW846 8270D

Lab FileID: F36787.D

Analyst approved: 07/07/14 18:41 Olga Azarihn

Injection Time: 07/06/14 15:06

Supervisor approved: 07/08/14 08:44 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
N-Nitrosopyrrolidine	930-55-2		4.95	Poor instrument integration

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF5726\F36787.D

Vial: 4

Acq On : 6 Jul 2014 3:06 pm

Operator: ashleyd

Sample : cc5702-50

Inst : MSF

Misc : op74333,ef5726

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Jul 7 14:27 2014

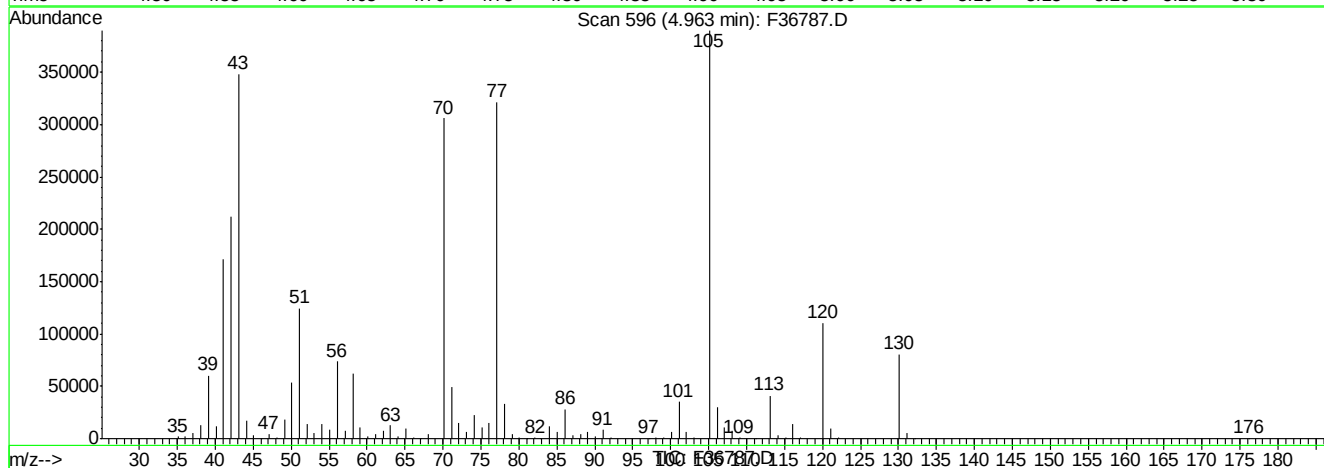
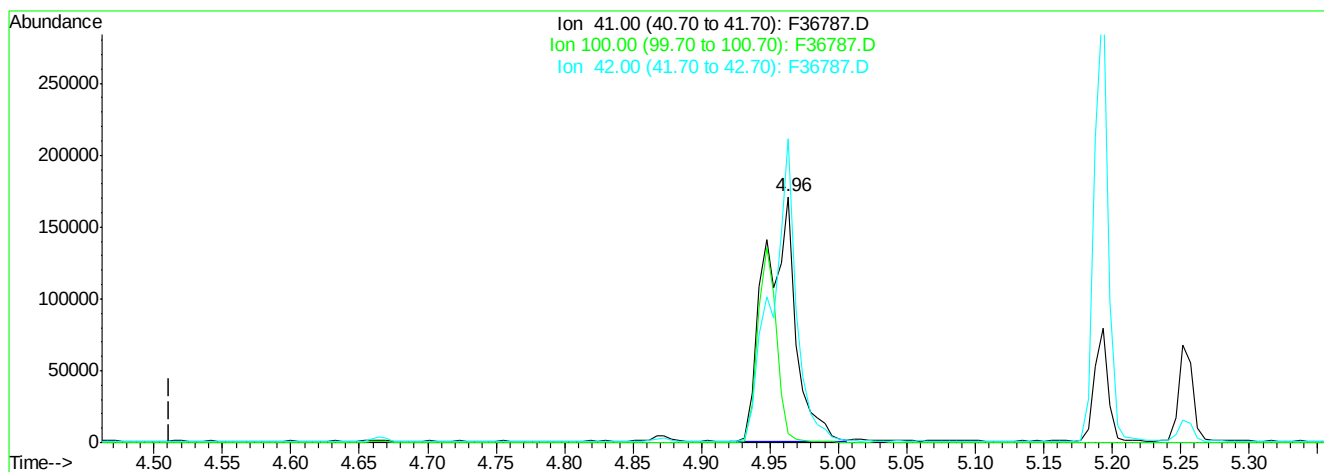
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Sun Jun 29 10:32:38 2014

Response via : Multiple Level Calibration



(109) N-Nitrosopyrrolidine (t)

4.96min 127.14ppb

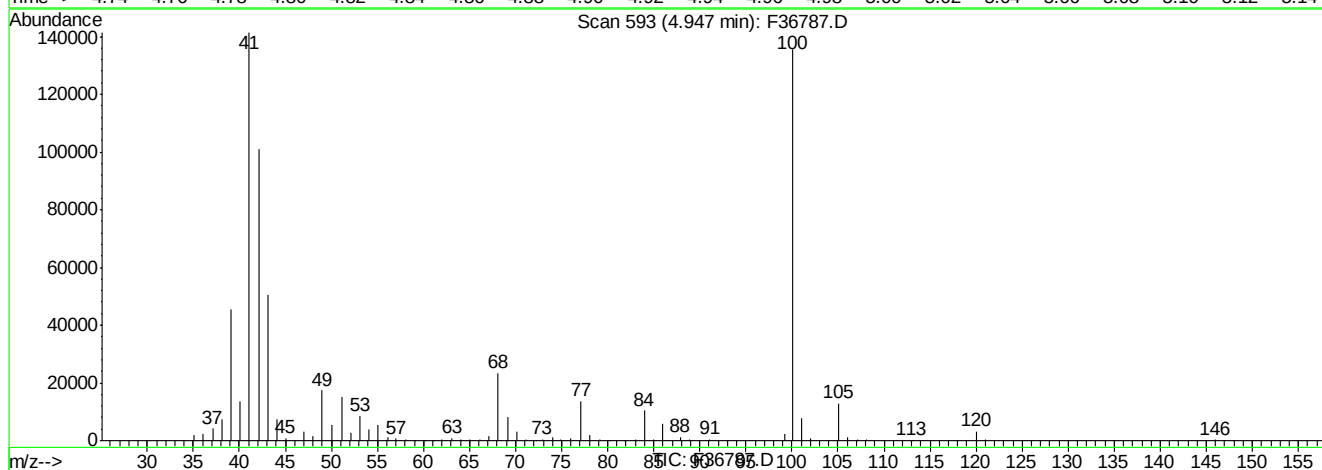
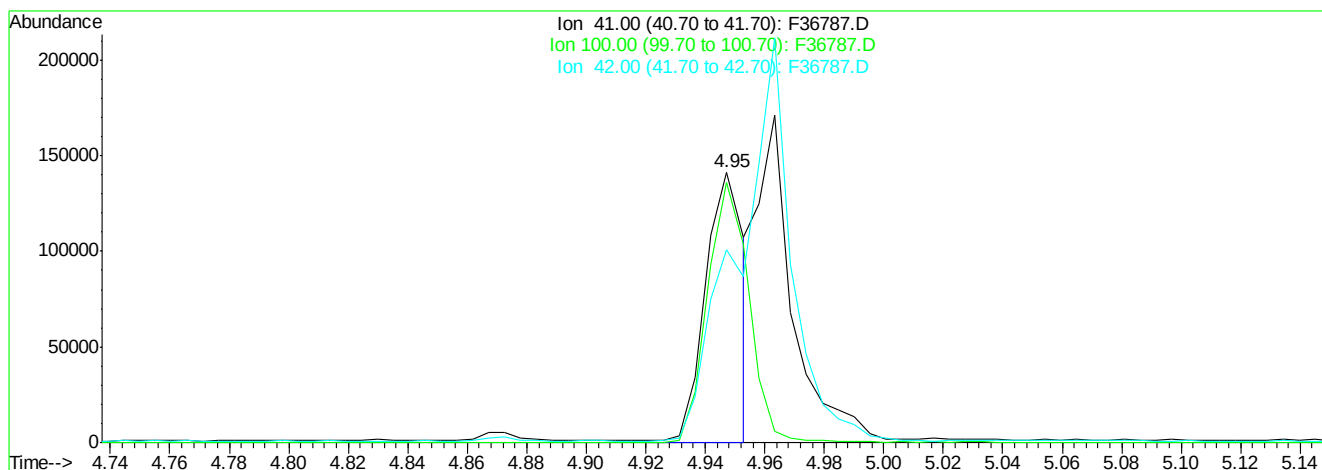
response 269540

Ion	Exp%	Act%
41.00	100	100
100.00	143.60	3.41#
42.00	70.40	124.03#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF5726\F36787.D Vial: 4
Acq On : 6 Jul 2014 3:06 pm Operator: ashleyd
Sample : cc5702-50 Inst : MSF
Misc : op74333,ef5726 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 7 14:28 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 29 10:32:38 2014
Response via : Multiple Level Calibration



(109) N-Nitrosopyrrolidine (t)

4.95min 59.90ppb m

response 126986

Ion	Exp%	Act%
41.00	100	100
100.00	143.60	96.02#
42.00	70.40	71.52
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5726\F36788.D

Vial: 5

Acq On : 6 Jul 2014 3:35 pm

Operator: ashleyd

Sample : cc5702-50

Inst : MSF

Misc : op74333,ef5726

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Jul 07 14:30:45 2014

Quant Results File: MFAP5692.RES

Quant Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Mon Jul 07 14:30:37 2014

Response via : Initial Calibration

DataAcq Meth : MF5692

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.66	152	275750	40.00	ppb	-0.07
24) Naphthalene-d8	5.59	136	975511	40.00	ppb	-0.06
47) Acenaphthene-d10	6.99	164	577486	40.00	ppb	-0.09
69) Phenanthrene-d10	8.85	188	927583	40.00	ppb	-0.13
83) Chrysene-d12	14.09	240	940529	40.00	ppb	-0.16
92) Perylene-d12	17.14	264	882154	40.00	ppb	-0.16
102) 1,4-Dichlorobenzene-d4A	4.66	152	275750	40.00	ppb	-0.07
112) Naphthalene-d8A	5.59	136	975511	40.00	ppb	0.00
121) Acenaphthene-d10A	6.99	164	577486	40.00	ppb	-0.09
132) Phenanthrene-d10A	8.85	188	927583	40.00	ppb	-0.13
147) Chrysene-d12A	14.09	240	940529	40.00	ppb	-0.16
155) Perylene-d12A	17.14	264	882154	40.00	ppb	-0.16
159) 1,4-Dichlorobenzene-d4b	4.66	152	275750	40.00	ppb	-0.07
161) Naphthalene-d8b	5.59	136	975511	40.00	ppb	-0.06
163) Acenaphthene-d10b	6.99	164	577486	40.00	ppb	-0.09
165) Phenanthrene-d10b	8.85	188	927583	40.00	ppb	-0.13
167) Chrysene-d12b	14.09	240	940529	40.00	ppb	-0.16
169) 1,4-Dichlorobenzene-d4c	4.66	152	275750	40.00	ppb	0.00
171) Naphthalene-d8c	5.59	136	975511	40.00	ppb	0.00
176) Chrysene-d12c	14.09	240	940529	40.00	ppb	0.00
178) Naphthalene-d8a	5.59	136	975511	40.00	ppb	-0.22

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
8) Phenol-d5	0.00	99	0d	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
25) Nitrobenzene-d5	0.00	82	0d	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.00	172	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
85) Terphenyl-d14	0.00	244	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	

Target Compounds

						Qvalue
170) m-Toluidine	5.02	106	672914	47.23	ppb	98
172) 2-chloroaniline	5.29	127	596291	47.62	ppb	92
173) 3-chloroaniline	5.63	127	559270	49.74	ppb	93
174) Catechol	5.57	110	443341	56.40	ppb	84
175) 1-chloro-2-nitrobenzene	5.83	75	278460	59.82	ppb	78

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 F36788.D MFAP5692.M Mon Jul 07 14:31:28 2014 RT1

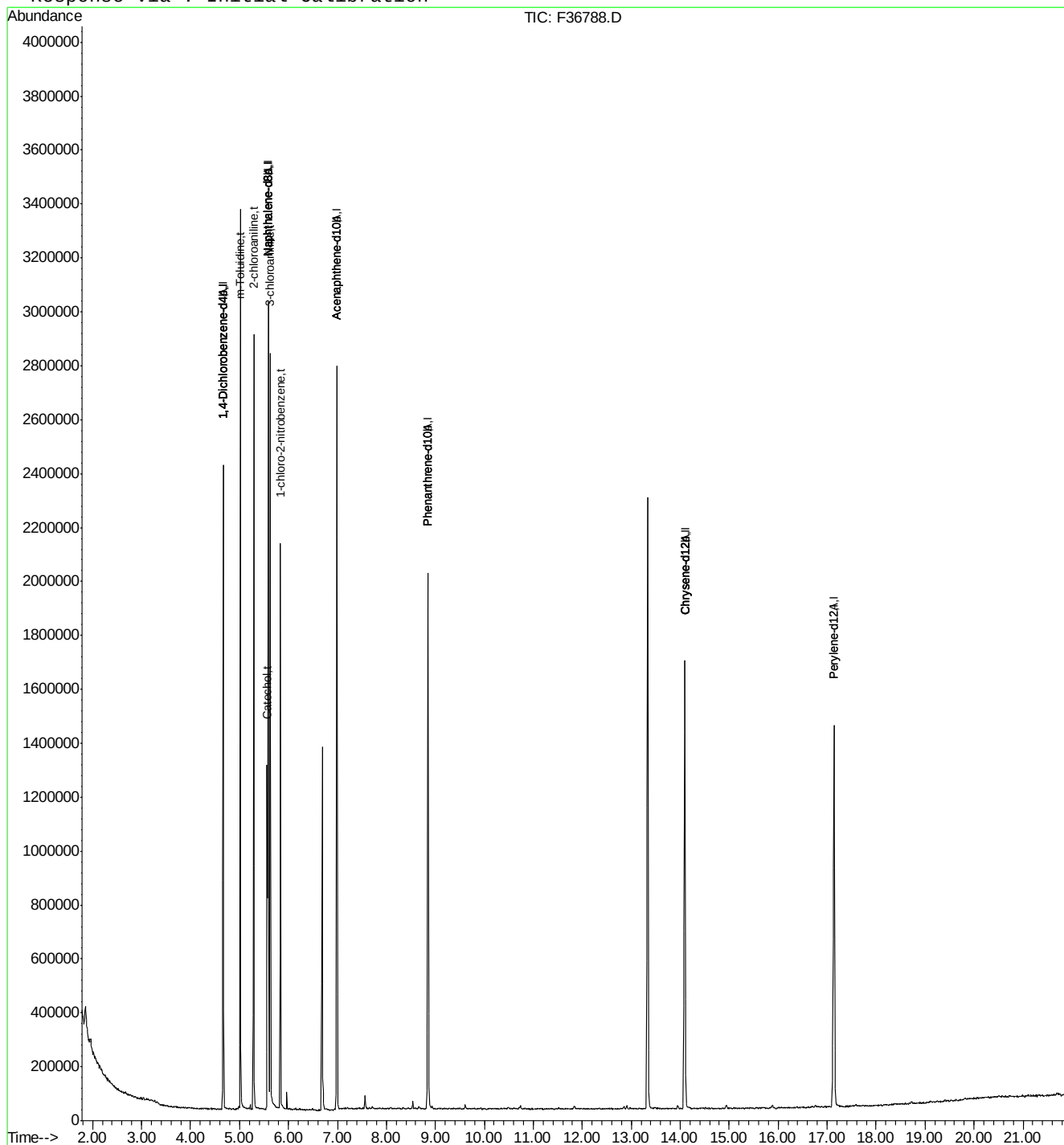
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF5726\F36788.D
Acq On : 6 Jul 2014 3:35 pm
Sample : cc5702-50
Misc : op74333,ef5726
MS Integration Params: LSCINT.P
Quant Time: Jul 7 14:31 2014

Vial: 5
Operator: ashleyd
Inst : MSF
Multiplr: 1.00

Quant Results File: MFAP5692.RES

Method : C:\MSDCHEM\1\METHODS\MFAP5692.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jul 07 14:30:37 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4614\
 Data File : z92843a.D
 Acq On : 23 Jun 2014 2:11 pm
 Operator : ashleyv
 Sample : ic4614-100
 Misc : op75490,ez4614
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 23 17:05:45 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MZ4613.M
 Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 QLast Update : Mon Jun 23 17:04:57 2014
 Response via : Initial Calibration

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

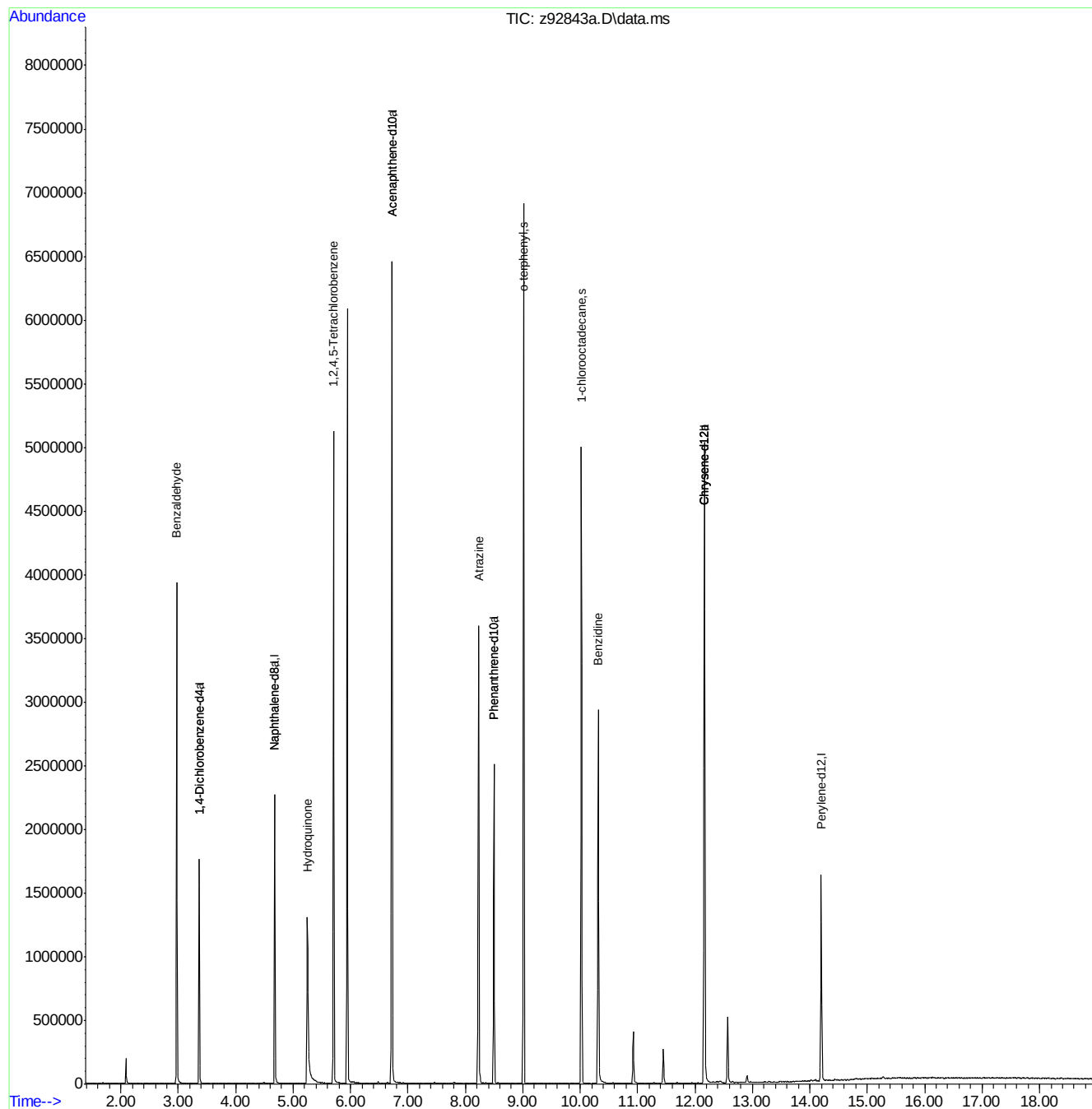
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.364	152	236464	40.00	ppb	0.00
24) Naphthalene-d8	4.678	136	913358	40.00	ppb	0.00
47) Acenaphthene-d10	6.724	164	545118	40.00	ppb	0.00
69) Phenanthrene-d10	8.498	188	895175	40.00	ppb	0.00
83) Chrysene-d12	12.157	240	875297	40.00	ppb	-0.01
92) Perylene-d12	14.198	264	697351	40.00	ppb	-0.01
102) 1,4-Dichlorobenzene-d4a	3.364	152	236464	40.00	ppb	0.00
104) Phenanthrene-d10a	8.498	188	895175	40.00	ppb	0.00
107) Chrysene-d12a	12.157	240	875297	40.00	ppb	-0.01
110) Acenaphthene-d10a	6.724	164	545118	40.00	ppb	0.00
112) Naphthalene-d8a	4.678	136	913358	40.00	ppb	0.00
114) Chrysene-d12b	12.157	240	875297	40.00	ppb	-0.01
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	9.016	230	1364813	158.11	ppb	0.00
Spiked Amount	50.000		Recovery	=	316.22%	
109) 1-chlorooctadecane	10.020	57	676229	187.84	ppb	0.00
Spiked Amount	50.000		Recovery	=	375.68%	
Target Compounds						
103) Benzaldehyde	2.974	105	612144	141.48	ppb	# 83
105) Atrazine	8.236	215	235390	158.33	ppb	# 84
108) Benzidine	10.319	184	1338998	188.92	ppb	98
111) 1,2,4,5-Tetrachloroben...	5.704	216	769689	151.97	ppb	98
113) Hydroquinone	5.250	110	750643	144.31	ppb	86

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4614\
Data File : z92843a.D
Acq On : 23 Jun 2014 2:11 pm
Operator : ashleyv
Sample : ic4614-100
Misc : op75490,ez4614
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 23 17:05:45 2014
Quant Method : C:\MSDCHEM\1\METHODS\MZ4613.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Mon Jun 23 17:04:57 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4614\
 Data File : z92844.D
 Acq On : 23 Jun 2014 2:37 pm
 Operator : ashleyv
 Sample : ic4614-80
 Misc : op75490,ez4614
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 23 17:07:48 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MZ4613.M
 Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 QLast Update : Mon Jun 23 17:04:57 2014
 Response via : Initial Calibration

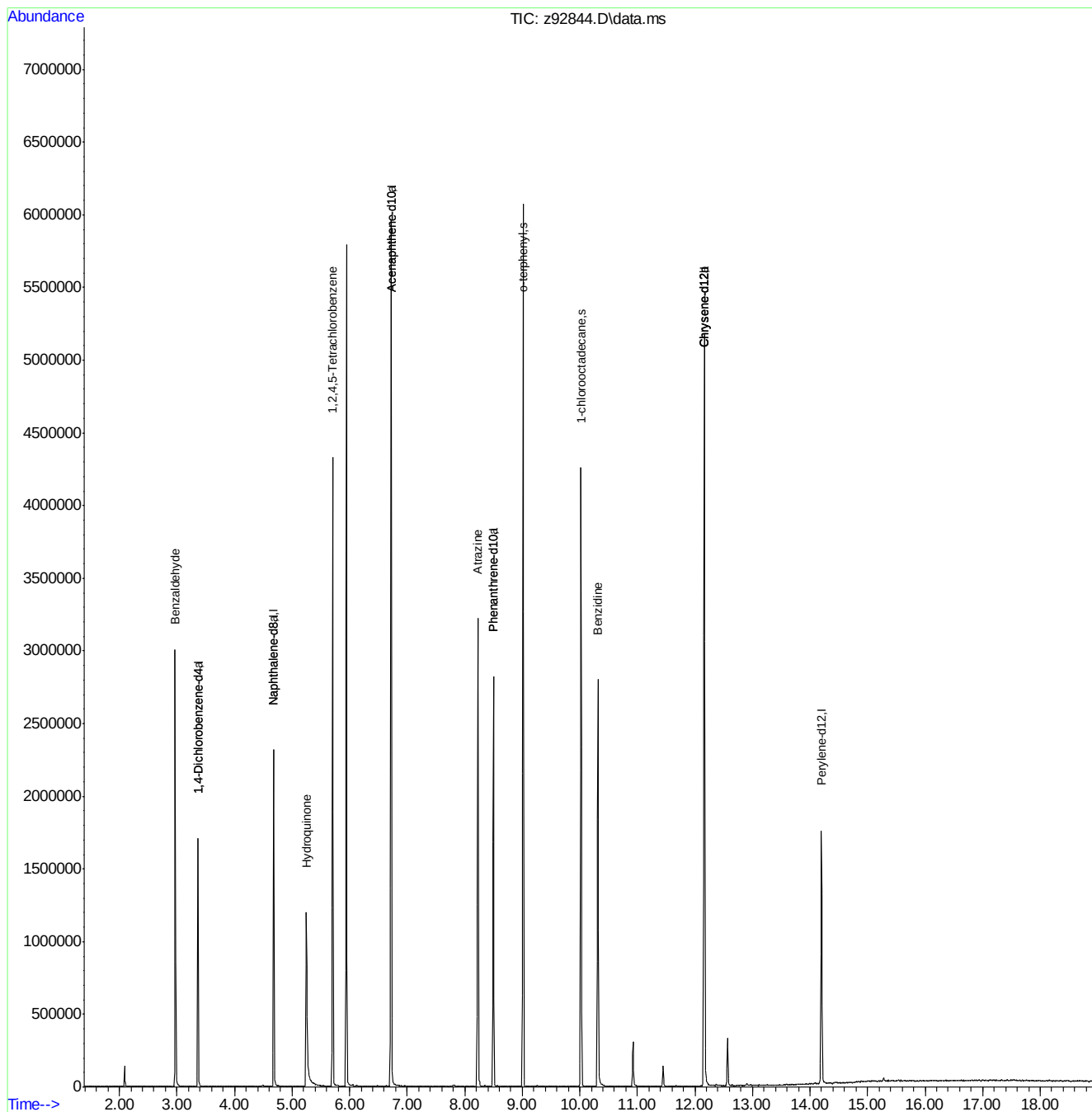
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.364	152	238168	40.00	ppb	0.00
24) Naphthalene-d8	4.678	136	966208	40.00	ppb	0.00
47) Acenaphthene-d10	6.724	164	591355	40.00	ppb	0.00
69) Phenanthrene-d10	8.498	188	973925	40.00	ppb	0.00
83) Chrysene-d12	12.157	240	978825	40.00	ppb	-0.01
92) Perylene-d12	14.198	264	761740	40.00	ppb	-0.01
102) 1,4-Dichlorobenzene-d4a	3.364	152	238168	40.00	ppb	0.00
104) Phenanthrene-d10a	8.498	188	973925	40.00	ppb	0.00
107) Chrysene-d12a	12.157	240	978825	40.00	ppb	-0.01
110) Acenaphthene-d10a	6.724	164	591355	40.00	ppb	0.00
112) Naphthalene-d8a	4.678	136	966208	40.00	ppb	0.00
114) Chrysene-d12b	12.157	240	978825	40.00	ppb	-0.01
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	9.016	230	1190416	126.76	ppb	0.00
Spiked Amount 50.000			Recovery	=	253.52%	
109) 1-chlorooctadecane	10.020	57	604529	150.16	ppb	0.00
Spiked Amount 50.000			Recovery	=	300.32%	
Target Compounds						
103) Benzaldehyde	2.974	105	485595	111.43	ppb	Qvalue 81
105) Atrazine	8.231	215	209445	129.49	ppb	# 83
108) Benzidine	10.314	184	1280170	161.52	ppb	98
111) 1,2,4,5-Tetrachloroben...	5.704	216	648779	118.08	ppb	99
113) Hydroquinone	5.244	110	654697	118.98	ppb	86

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4614\
Data File : z92844.D
Acq On : 23 Jun 2014 2:37 pm
Operator : ashleyv
Sample : ic4614-80
Misc : op75490,ez4614
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 23 17:07:48 2014
Quant Method : C:\MSDCHEM\1\METHODS\MZ4613.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Mon Jun 23 17:04:57 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4614\
 Data File : z92845.D
 Acq On : 23 Jun 2014 3:03 pm
 Operator : ashleyv
 Sample : icc4614-50
 Misc : op75490,ez4614
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 23 17:08:41 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MZ4613.M
 Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 QLast Update : Mon Jun 23 17:04:57 2014
 Response via : Initial Calibration

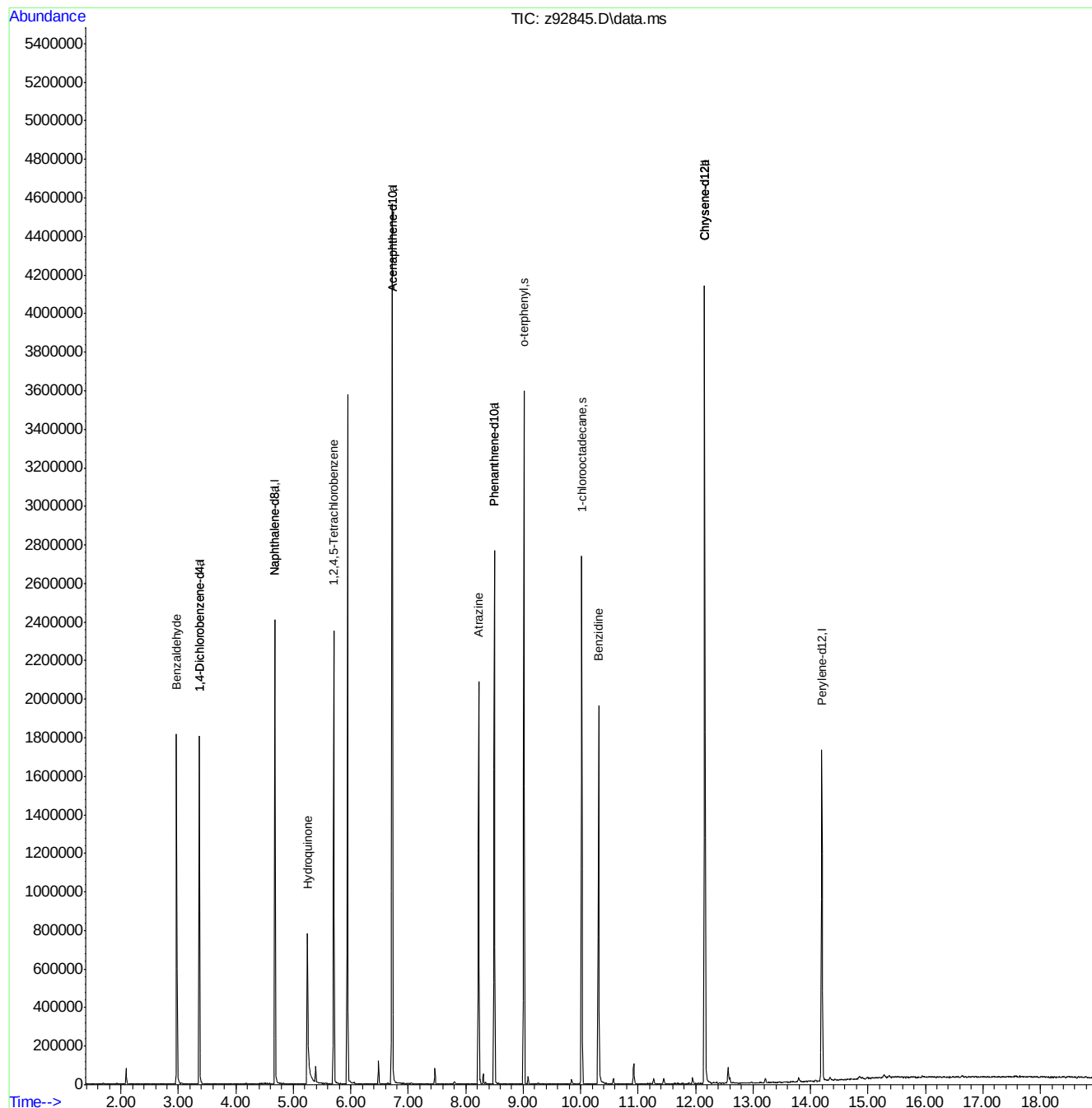
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.364	152	240105	40.00	ppb	0.00
24) Naphthalene-d8	4.678	136	978377	40.00	ppb	0.00
47) Acenaphthene-d10	6.724	164	593286	40.00	ppb	0.00
69) Phenanthrene-d10	8.498	188	989052	40.00	ppb	0.00
83) Chrysene-d12	12.157	240	962626	40.00	ppb	-0.01
92) Perylene-d12	14.198	264	736575	40.00	ppb	-0.01
102) 1,4-Dichlorobenzene-d4a	3.364	152	240105	40.00	ppb	0.00
104) Phenanthrene-d10a	8.498	188	989052	40.00	ppb	0.00
107) Chrysene-d12a	12.157	240	962626	40.00	ppb	-0.01
110) Acenaphthene-d10a	6.724	164	593286	40.00	ppb	0.00
112) Naphthalene-d8a	4.678	136	978377	40.00	ppb	0.00
114) Chrysene-d12b	12.157	240	962626	40.00	ppb	-0.01
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	9.016	230	710077	74.45	ppb	0.00
Spiked Amount 50.000			Recovery	=	148.90%	
109) 1-chlorooctadecane	10.015	57	370250	93.52	ppb	0.00
Spiked Amount 50.000			Recovery	=	187.04%	
Target Compounds						
103) Benzaldehyde	2.968	105	294955	67.14	ppb	Qvalue 84
105) Atrazine	8.230	215	128139	78.01	ppb	# 84
108) Benzidine	10.314	184	812699	104.26	ppb	99
111) 1,2,4,5-Tetrachloroben...	5.704	216	397241	72.06	ppb	99
113) Hydroquinone	5.244	110	384866	69.07	ppb	86

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4614\
Data File : z92845.D
Acq On : 23 Jun 2014 3:03 pm
Operator : ashleyv
Sample : icc4614-50
Misc : op75490,ez4614
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 23 17:08:41 2014
Quant Method : C:\MSDCHEM\1\METHODS\MZ4613.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Mon Jun 23 17:04:57 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4614\
 Data File : z92846.D
 Acq On : 23 Jun 2014 3:29 pm
 Operator : ashleyv
 Sample : ic4614-25
 Misc : op75490,ez4614
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 23 17:09:25 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MZ4613.M
 Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 QLast Update : Mon Jun 23 17:04:57 2014
 Response via : Initial Calibration

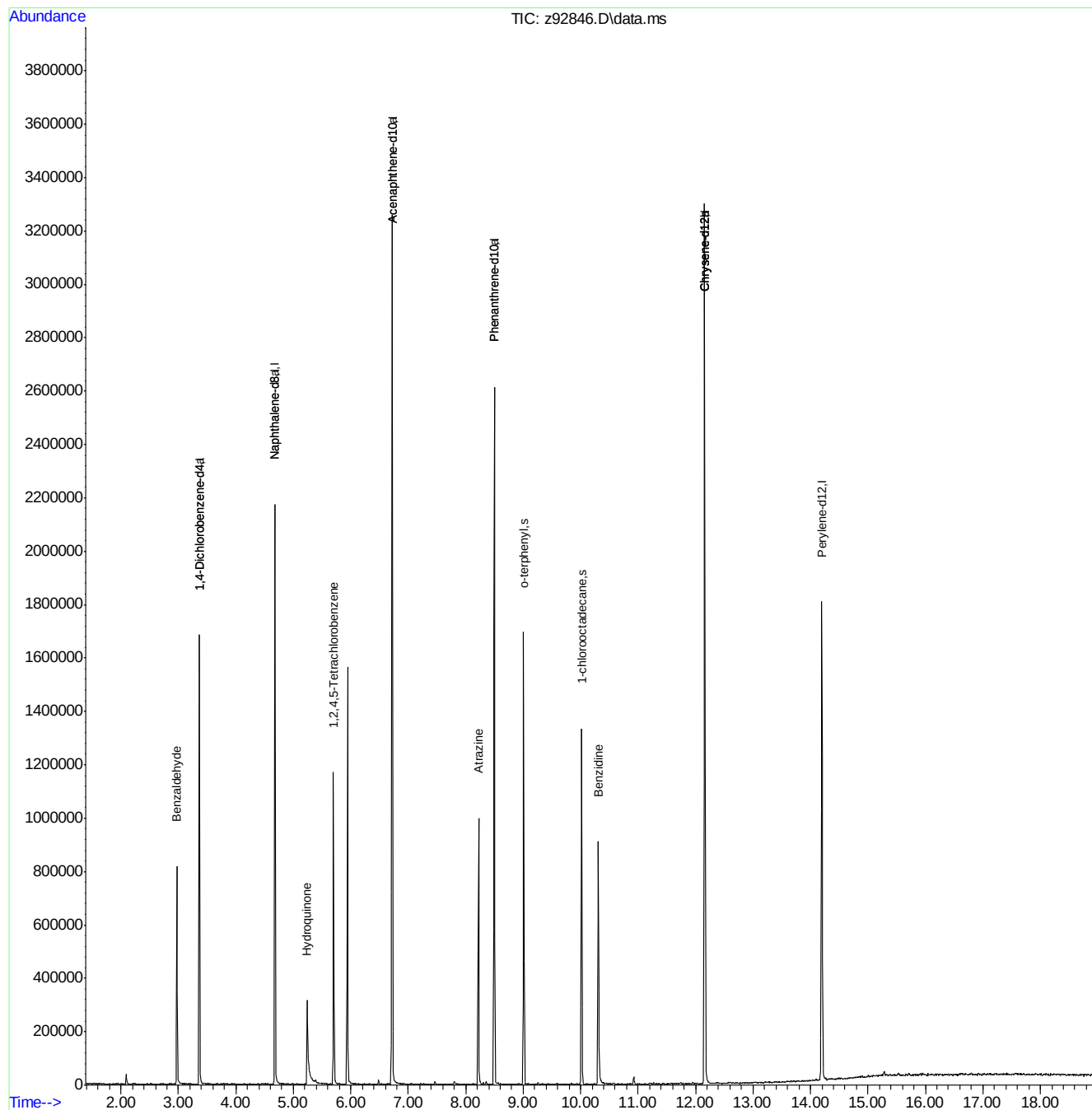
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.364	152	222560	40.00	ppb	0.00
24) Naphthalene-d8	4.678	136	903708	40.00	ppb	0.00
47) Acenaphthene-d10	6.724	164	533313	40.00	ppb	0.00
69) Phenanthrene-d10	8.498	188	910496	40.00	ppb	0.00
83) Chrysene-d12	12.157	240	935341	40.00	ppb	-0.01
92) Perylene-d12	14.198	264	773774	40.00	ppb	-0.01
102) 1,4-Dichlorobenzene-d4a	3.364	152	222560	40.00	ppb	0.00
104) Phenanthrene-d10a	8.498	188	910496	40.00	ppb	0.00
107) Chrysene-d12a	12.157	240	935341	40.00	ppb	-0.01
110) Acenaphthene-d10a	6.724	164	533313	40.00	ppb	0.00
112) Naphthalene-d8a	4.678	136	903708	40.00	ppb	0.00
114) Chrysene-d12b	12.157	240	935341	40.00	ppb	-0.01
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	9.011	230	316105	36.00	ppb	0.00
Spiked Amount 50.000			Recovery	=	72.00%	
109) 1-chlorooctadecane	10.015	57	170185	44.24	ppb	0.00
Spiked Amount 50.000			Recovery	=	88.48%	
Target Compounds						
103) Benzaldehyde	2.974	105	133578	32.80	ppb	Qvalue 82
105) Atrazine	8.225	215	58906	38.96	ppb	# 84
108) Benzidine	10.309	184	398077	52.56	ppb	98
111) 1,2,4,5-Tetrachloroben...	5.698	216	180077	36.34	ppb	97
113) Hydroquinone	5.239	110	165718	32.20	ppb	89

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4614\
Data File : z92846.D
Acq On : 23 Jun 2014 3:29 pm
Operator : ashleyv
Sample : ic4614-25
Misc : op75490,ez4614
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 23 17:09:25 2014
Quant Method : C:\MSDCHEM\1\METHODS\MZ4613.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Mon Jun 23 17:04:57 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4614\
 Data File : z92847.D
 Acq On : 23 Jun 2014 3:55 pm
 Operator : ashleyv
 Sample : ic4614-10
 Misc : op75490,ez4614
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 23 17:10:04 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MZ4613.M
 Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 QLast Update : Mon Jun 23 17:04:57 2014
 Response via : Initial Calibration

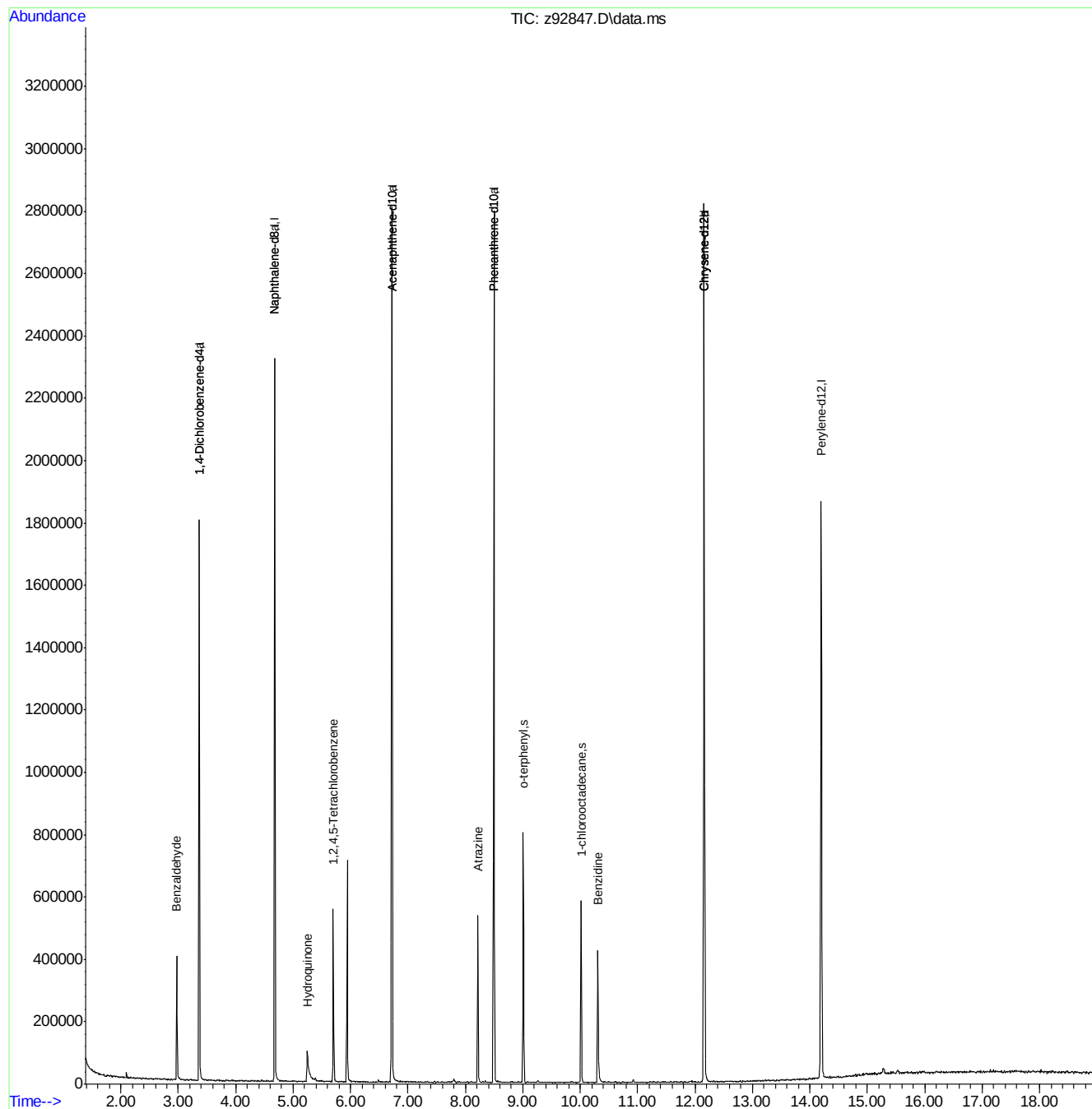
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.364	152	235169	40.00	ppb	0.00
24) Naphthalene-d8	4.678	136	948084	40.00	ppb	0.00
47) Acenaphthene-d10	6.724	164	559439	40.00	ppb	0.00
69) Phenanthrene-d10	8.498	188	979526	40.00	ppb	0.00
83) Chrysene-d12	12.157	240	972726	40.00	ppb	-0.01
92) Perylene-d12	14.198	264	812650	40.00	ppb	-0.01
102) 1,4-Dichlorobenzene-d4a	3.364	152	235169	40.00	ppb	0.00
104) Phenanthrene-d10a	8.498	188	979526	40.00	ppb	0.00
107) Chrysene-d12a	12.157	240	972726	40.00	ppb	-0.01
110) Acenaphthene-d10a	6.724	164	559439	40.00	ppb	0.00
112) Naphthalene-d8a	4.678	136	948084	40.00	ppb	0.00
114) Chrysene-d12b	12.157	240	972726	40.00	ppb	-0.01
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	9.010	230	150010	15.88	ppb	0.00
Spiked Amount 50.000			Recovery	=	31.76%	
109) 1-chlorooctadecane	10.015	57	81576	20.39	ppb	0.00
Spiked Amount 50.000			Recovery	=	40.78%	
Target Compounds						
103) Benzaldehyde	2.974	105	62081	14.43	ppb	Qvalue 81
105) Atrazine	8.220	215	27130	16.68	ppb	# 78
108) Benzidine	10.309	184	189157	24.02	ppb	96
111) 1,2,4,5-Tetrachloroben...	5.698	216	85581	16.46	ppb	99
113) Hydroquinone	5.244	110	68997	12.78	ppb	83

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4614\
Data File : z92847.D
Acq On : 23 Jun 2014 3:55 pm
Operator : ashleyv
Sample : ic4614-10
Misc : op75490,ez4614
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 23 17:10:04 2014
Quant Method : C:\MSDCHEM\1\METHODS\MZ4613.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Mon Jun 23 17:04:57 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4614\
 Data File : z92848.D
 Acq On : 23 Jun 2014 4:21 pm
 Operator : ashleyv
 Sample : ic4614-5
 Misc : op75490,ez4614
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 23 17:10:50 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MZ4613.M
 Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 QLast Update : Mon Jun 23 17:04:57 2014
 Response via : Initial Calibration

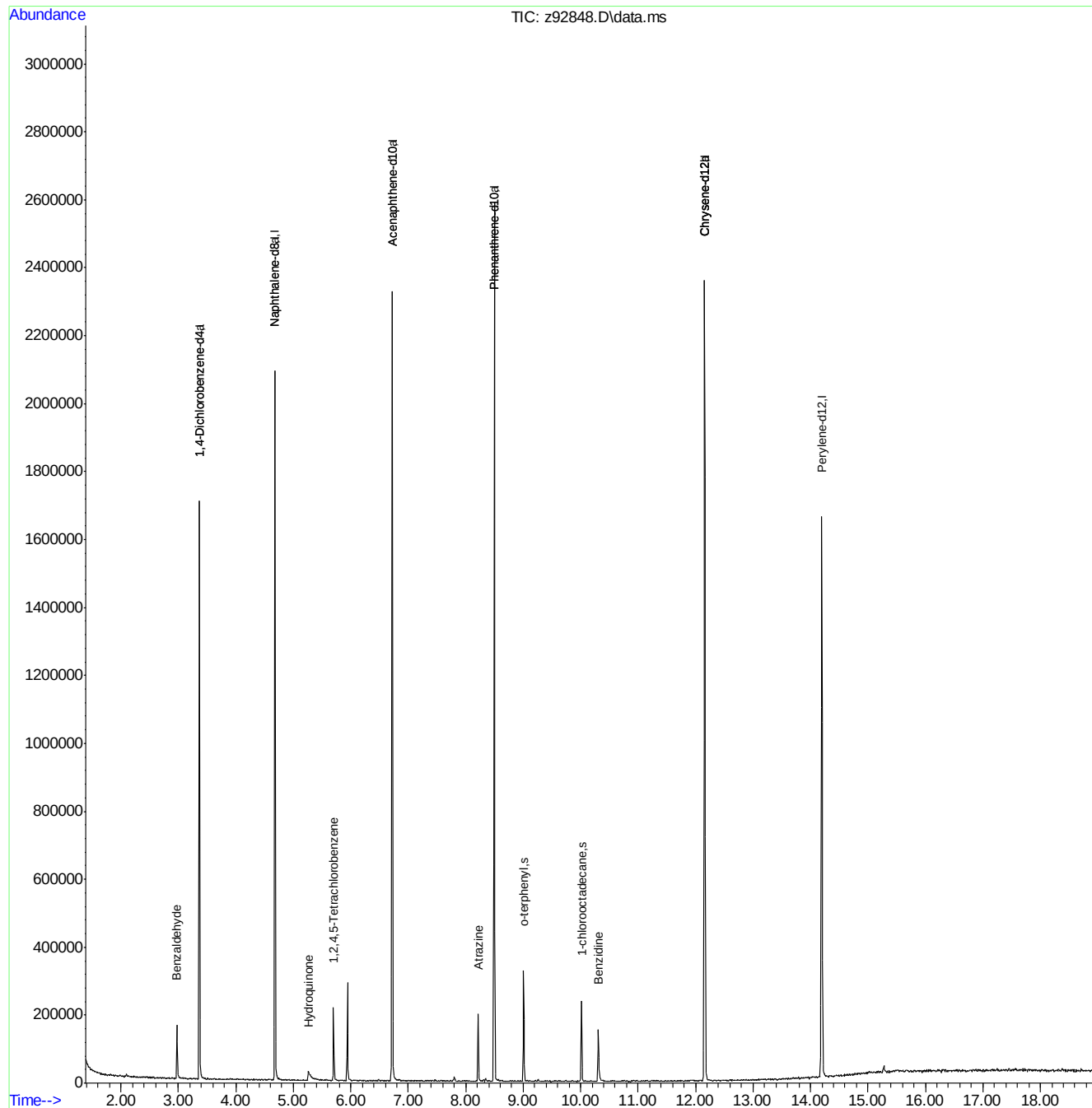
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.364	152	210398	40.00	ppb	0.00
24) Naphthalene-d8	4.678	136	865168	40.00	ppb	0.00
47) Acenaphthene-d10	6.724	164	503938	40.00	ppb	0.00
69) Phenanthrene-d10	8.498	188	882750	40.00	ppb	0.00
83) Chrysene-d12	12.157	240	895634	40.00	ppb	-0.01
92) Perylene-d12	14.198	264	748241	40.00	ppb	-0.01
102) 1,4-Dichlorobenzene-d4a	3.364	152	210398	40.00	ppb	0.00
104) Phenanthrene-d10a	8.498	188	882750	40.00	ppb	0.00
107) Chrysene-d12a	12.157	240	895634	40.00	ppb	-0.01
110) Acenaphthene-d10a	6.724	164	503938	40.00	ppb	0.00
112) Naphthalene-d8a	4.678	136	865168	40.00	ppb	0.00
114) Chrysene-d12b	12.157	240	895634	40.00	ppb	-0.01
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	9.010	230	62459	7.34	ppb	0.00
Spiked Amount 50.000			Recovery	=	14.68%	
109) 1-chlorooctadecane	10.015	57	34518	9.37	ppb	0.00
Spiked Amount 50.000			Recovery	=	18.74%	
Target Compounds						
103) Benzaldehyde	2.974	105	25852	6.72	ppb	Qvalue 80
105) Atrazine	8.220	215	10895	7.43	ppb	# 78
108) Benzidine	10.309	184	73028	10.07	ppb	97
111) 1,2,4,5-Tetrachloroben...	5.698	216	35029	7.48	ppb	89
113) Hydroquinone	5.260	110	23245	4.72	ppb	90

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4614\
Data File : z92848.D
Acq On : 23 Jun 2014 4:21 pm
Operator : ashleyv
Sample : ic4614-5
Misc : op75490,ez4614
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 23 17:10:50 2014
Quant Method : C:\MSDCHEM\1\METHODS\MZ4613.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Mon Jun 23 17:04:57 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4614\
 Data File : z92849.D
 Acq On : 23 Jun 2014 4:46 pm
 Operator : ashleyv
 Sample : ic4614-2
 Misc : op75490,ez4614
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 23 17:11:40 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MZ4613.M
 Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 QLast Update : Mon Jun 23 17:04:57 2014
 Response via : Initial Calibration

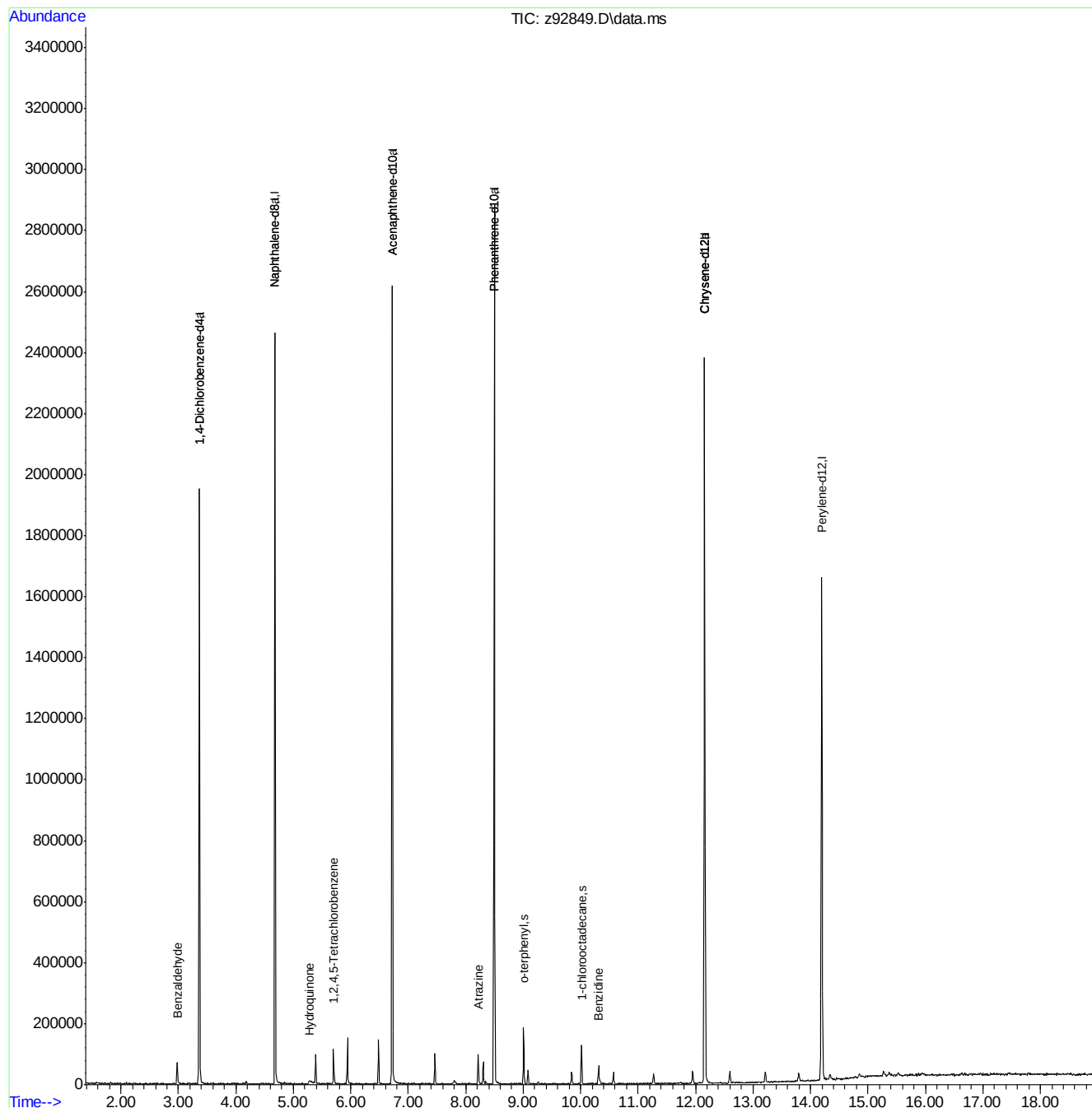
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.364	152	242617	40.00	ppb	0.00
24) Naphthalene-d8	4.678	136	990153	40.00	ppb	0.00
47) Acenaphthene-d10	6.724	164	575334	40.00	ppb	0.00
69) Phenanthrene-d10	8.498	188	1023609	40.00	ppb	0.00
83) Chrysene-d12	12.157	240	963408	40.00	ppb	-0.01
92) Perylene-d12	14.192	264	740557	40.00	ppb	-0.02
102) 1,4-Dichlorobenzene-d4a	3.364	152	242617	40.00	ppb	0.00
104) Phenanthrene-d10a	8.498	188	1023609	40.00	ppb	0.00
107) Chrysene-d12a	12.157	240	963408	40.00	ppb	-0.01
110) Acenaphthene-d10a	6.724	164	575334	40.00	ppb	0.00
112) Naphthalene-d8a	4.678	136	990153	40.00	ppb	0.00
114) Chrysene-d12b	12.157	240	963408	40.00	ppb	-0.01
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	9.010	230	33678	3.41	ppb	0.00
Spiked Amount 50.000			Recovery	=	6.82%	
109) 1-chlorooctadecane	10.015	57	18191	4.59	ppb	0.00
Spiked Amount 50.000			Recovery	=	9.18%	
Target Compounds						
103) Benzaldehyde	2.979	105	13191	2.97	ppb	Qvalue 85
105) Atrazine	8.220	215	5581	3.28	ppb	# 75
108) Benzidine	10.314	184	32962	4.23	ppb	94
111) 1,2,4,5-Tetrachloroben...	5.698	216	18165	3.40	ppb	99
113) Hydroquinone	5.282	110	4828	0.86	ppb	83

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4614\
Data File : z92849.D
Acq On : 23 Jun 2014 4:46 pm
Operator : ashleyv
Sample : ic4614-2
Misc : op75490,ez4614
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 23 17:11:40 2014
Quant Method : C:\MSDCHEM\1\METHODS\MZ4613.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Mon Jun 23 17:04:57 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4614\
 Data File : z92850.D
 Acq On : 23 Jun 2014 5:12 pm
 Operator : ashleyv
 Sample : ic4614-1
 Misc : op75490,ez4614
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 25 15:44:00 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MZ4613.M
 Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 QLast Update : Mon Jun 23 18:09:26 2014
 Response via : Initial Calibration

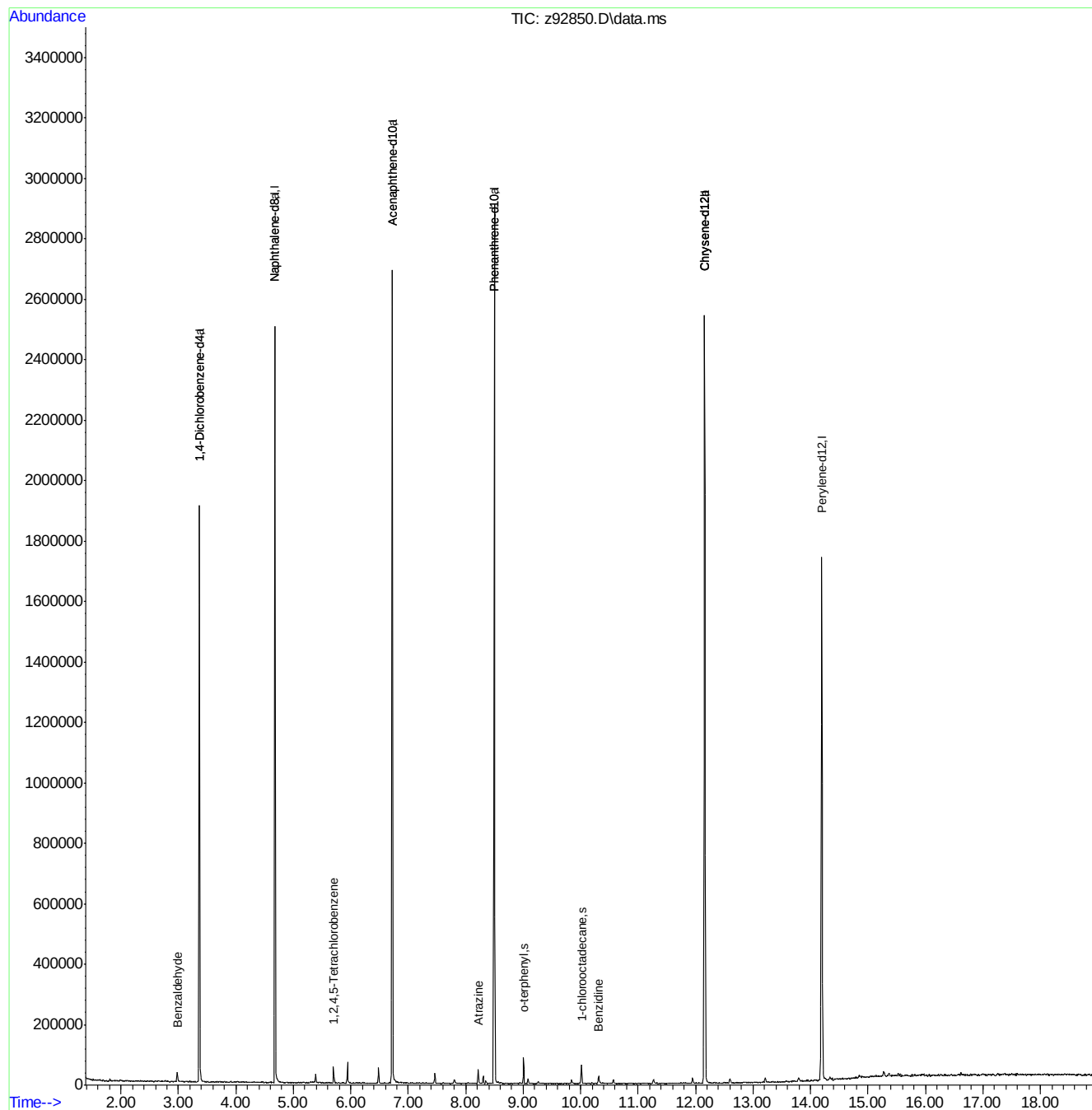
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.364	152	240997	40.00	ppb	0.00
24) Naphthalene-d8	4.678	136	996846	40.00	ppb	0.00
47) Acenaphthene-d10	6.724	164	595735	40.00	ppb	0.00
69) Phenanthrene-d10	8.498	188	1071660	40.00	ppb	0.00
83) Chrysene-d12	12.157	240	1024761	40.00	ppb	0.00
92) Perylene-d12	14.198	264	783177	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	3.364	152	240997	40.00	ppb	0.00
104) Phenanthrene-d10a	8.498	188	1071660	40.00	ppb	0.00
107) Chrysene-d12a	12.157	240	1024761	40.00	ppb	0.00
110) Acenaphthene-d10a	6.724	164	595735	40.00	ppb	0.00
112) Naphthalene-d8a	4.678	136	996846	40.00	ppb	0.00
114) Chrysene-d12b	12.157	240	1024761	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	9.011	230	15465	0.97	ppb	0.00
Spiked Amount 50.000			Recovery	=	1.94%	
109) 1-chlorooctadecane	10.015	57	8840	1.07	ppb	0.00
Spiked Amount 50.000			Recovery	=	2.14%	
Target Compounds						
103) Benzaldehyde	2.979	105	6566	1.06	ppb	Qvalue # 71
105) Atrazine	8.220	215	2862	1.01	ppb	87
108) Benzidine	10.314	184	15566	0.91	ppb	96
111) 1,2,4,5-Tetrachloroben...	5.704	216	8995	1.05	ppb	89

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4614\
Data File : z92850.D
Acq On : 23 Jun 2014 5:12 pm
Operator : ashleyv
Sample : ic4614-1
Misc : op75490,ez4614
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 25 15:44:00 2014
Quant Method : C:\MSDCHEM\1\METHODS\MZ4613.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Mon Jun 23 18:09:26 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4614\
 Data File : z92853.D
 Acq On : 23 Jun 2014 6:30 pm
 Operator : ashleyv
 Sample : icv4614-50
 Misc : op75490,ez4614
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 25 09:19:31 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MZ4615.M
 Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 QLast Update : Wed Jun 25 09:18:58 2014
 Response via : Initial Calibration

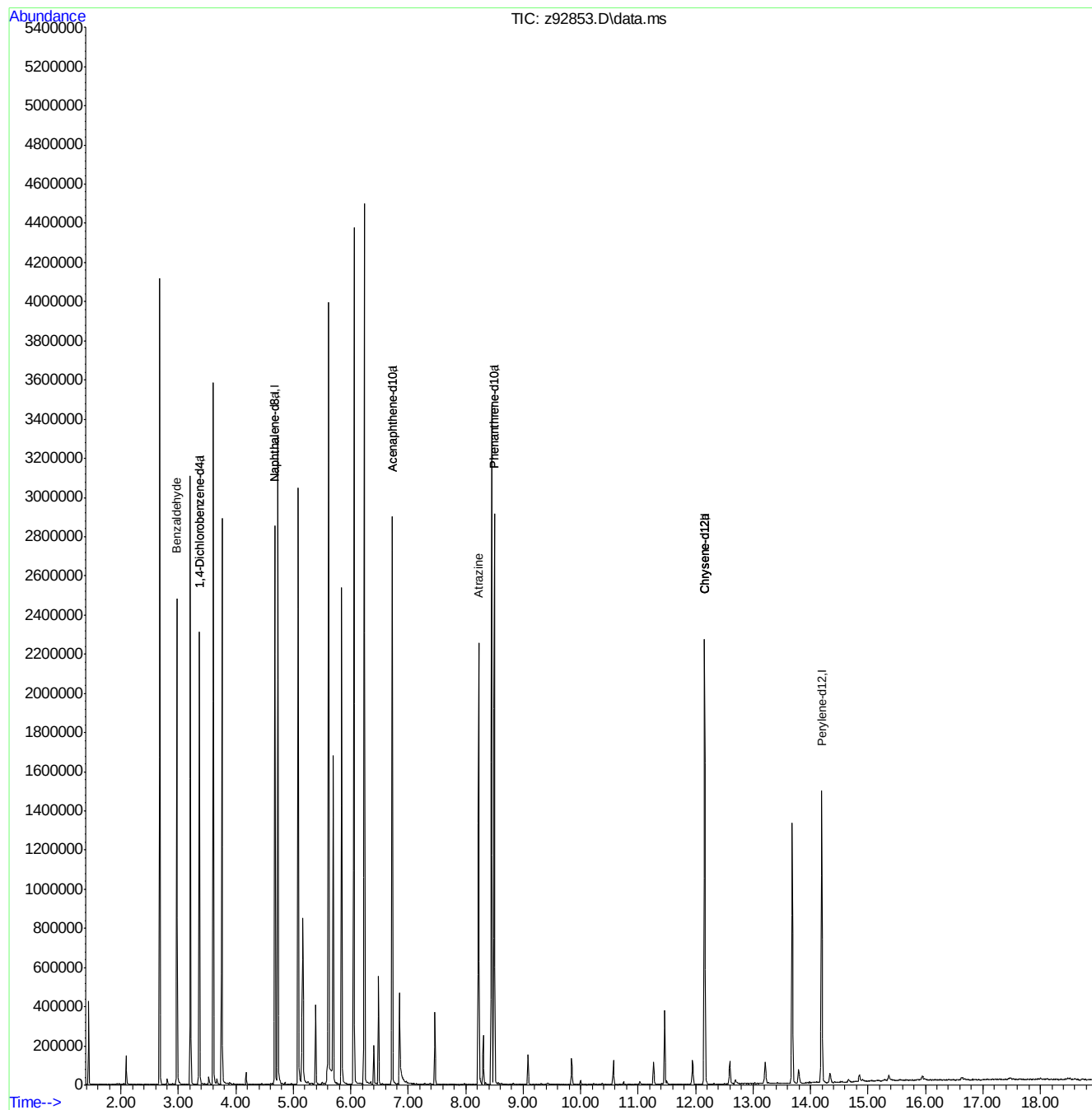
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.364	152	275203	40.00	ppb	0.00
24) Naphthalene-d8	4.678	136	1111982	40.00	ppb	0.00
47) Acenaphthene-d10	6.724	164	639297	40.00	ppb	0.00
69) Phenanthrene-d10	8.498	188	1027767	40.00	ppb	0.00
83) Chrysene-d12	12.157	240	933122	40.00	ppb	0.00
92) Perylene-d12	14.192	264	658106	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	3.364	152	275203	40.00	ppb	0.00
104) Phenanthrene-d10a	8.498	188	1027767	40.00	ppb	0.00
107) Chrysene-d12a	12.157	240	933122	40.00	ppb	0.00
110) Acenaphthene-d10a	6.724	164	639297	40.00	ppb	0.00
112) Naphthalene-d8a	4.678	136	1111982	40.00	ppb	0.00
114) Chrysene-d12b	12.157	240	933122	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						
103) Benzaldehyde	2.974	105	352513	49.65	ppb	Qvalue 82
105) Atrazine	8.230	215	134271	49.41	ppb	# 85

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4614\
Data File : z92853.D
Acq On : 23 Jun 2014 6:30 pm
Operator : ashleyv
Sample : icv4614-50
Misc : op75490,ez4614
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 25 09:19:31 2014
Quant Method : C:\MSDCHEM\1\METHODS\MZ4615.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 25 09:18:58 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4614\
 Data File : z92855.D
 Acq On : 23 Jun 2014 7:21 pm
 Operator : ashleyv
 Sample : icv4614-50
 Misc : op75490,ez4614
 ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 25 09:16:52 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MZ4615.M
 Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 QLast Update : Wed Jun 25 09:02:03 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.364	152	452836	40.00	ppb	0.03
24) Naphthalene-d8	4.683	136	1842673	40.00	ppb	0.03
47) Acenaphthene-d10	6.724	164	1089004	40.00	ppb	0.03
69) Phenanthrene-d10	8.497	188	1914752	40.00	ppb	0.03
83) Chrysene-d12	12.162	240	2159122	40.00	ppb	0.03
92) Perylene-d12	14.203	264	1727387	40.00	ppb	0.04
102) 1,4-Dichlorobenzene-d4a	3.364	152	452836	40.00	ppb	0.03
104) Phenanthrene-d10a	8.567	188	9024	40.00	ppb	0.10
107) Chrysene-d12a	12.162	240	2159122	40.00	ppb	0.03
110) Acenaphthene-d10a	6.724	164	1089004	40.00	ppb	0.03
112) Naphthalene-d8a	4.683	136	1842673	40.00	ppb	0.03
114) Chrysene-d12b	12.162	240	2159122	40.00	ppb	0.03
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						
108) Benzidine	10.314	184	1672194	46.37	ppb	Qvalue 99

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

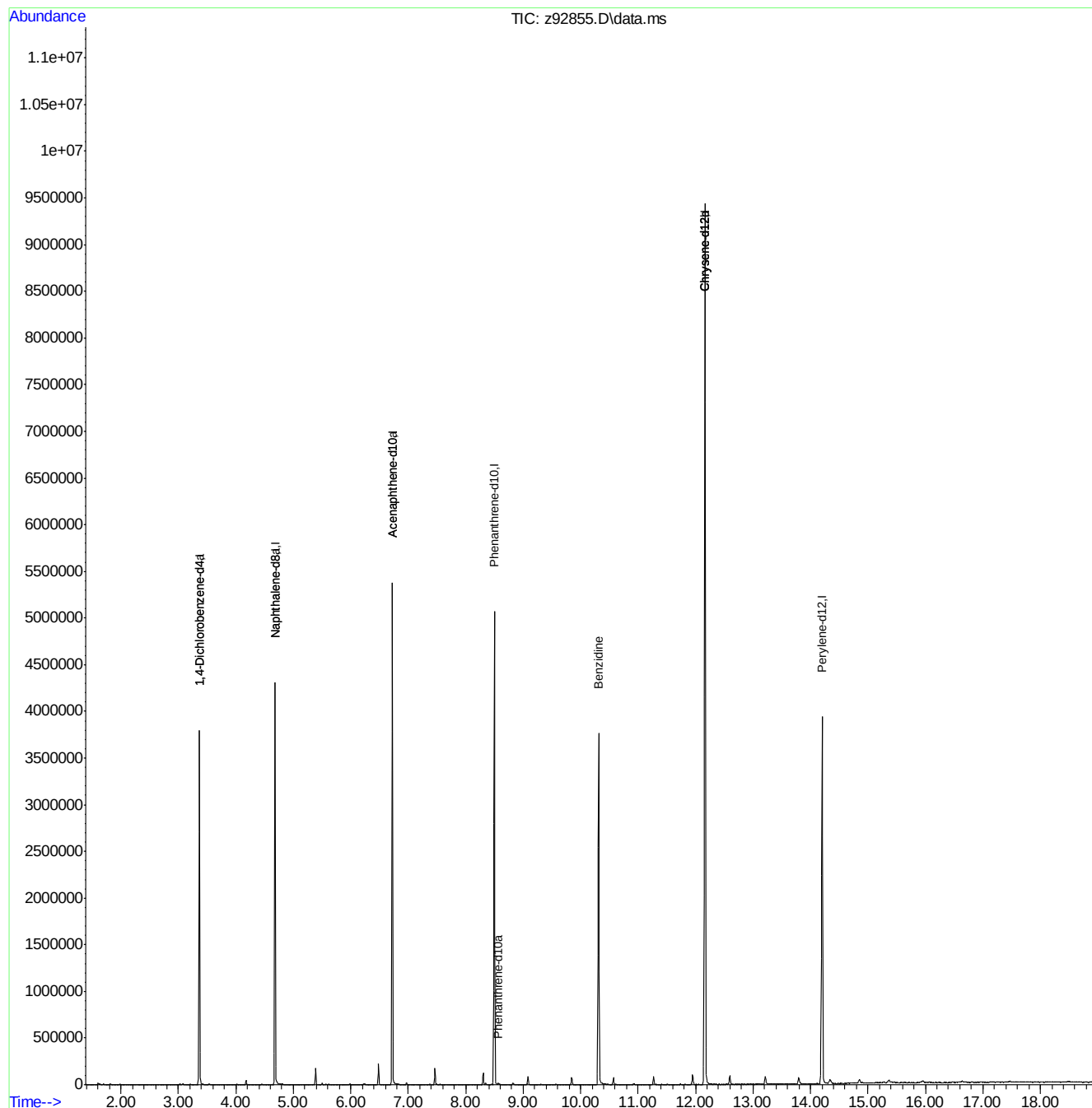
9.6.119

9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4614\
Data File : z92855.D
Acq On : 23 Jun 2014 7:21 pm
Operator : ashleyv
Sample : icv4614-50
Misc : op75490,ez4614
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 25 09:16:52 2014
Quant Method : C:\MSDCHEM\1\METHODS\MZ4615.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 25 09:02:03 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4614\
 Data File : z92856.D
 Acq On : 23 Jun 2014 7:47 pm
 Operator : ashleyv
 Sample : icv4614-50
 Misc : op75490,ez4614
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 25 09:20:40 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MZ4615.M
 Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 QLast Update : Wed Jun 25 09:18:58 2014
 Response via : Initial Calibration

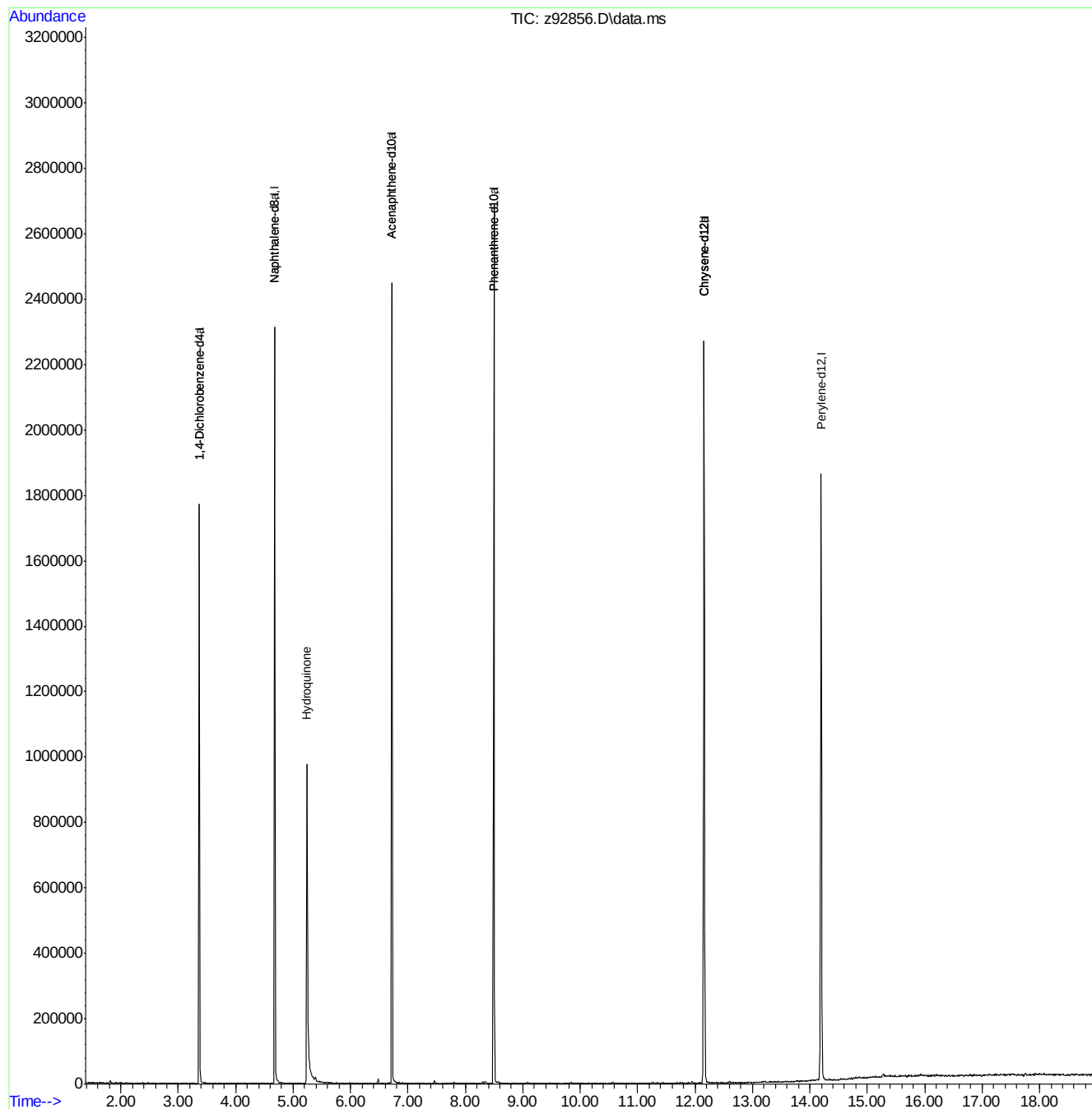
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.364	152	219471	40.00	ppb	0.00
24) Naphthalene-d8	4.678	136	892482	40.00	ppb	0.00
47) Acenaphthene-d10	6.718	164	531754	40.00	ppb	0.00
69) Phenanthrene-d10	8.497	188	932589	40.00	ppb	0.00
83) Chrysene-d12	12.157	240	945682	40.00	ppb	0.00
92) Perylene-d12	14.192	264	802611	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	3.364	152	219471	40.00	ppb	0.00
104) Phenanthrene-d10a	8.497	188	932589	40.00	ppb	0.00
107) Chrysene-d12a	12.157	240	945682	40.00	ppb	0.00
110) Acenaphthene-d10a	6.718	164	531754	40.00	ppb	0.00
112) Naphthalene-d8a	4.678	136	892482	40.00	ppb	0.00
114) Chrysene-d12b	12.157	240	945682	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						
113) Hydroquinone	5.239	110	421496	65.00	ppb	Qvalue 86

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4614\
Data File : z92856.D
Acq On : 23 Jun 2014 7:47 pm
Operator : ashleyv
Sample : icv4614-50
Misc : op75490,ez4614
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 25 09:20:40 2014
Quant Method : C:\MSDCHEM\1\METHODS\MZ4615.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 25 09:18:58 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4615\
 Data File : z92862.D
 Acq On : 24 Jun 2014 11:35 am
 Operator : ashleyv
 Sample : icc4615-50
 Misc : op75490,ez4615
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 24 16:39:26 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MZ4615.M
 Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 QLast Update : Tue Jun 24 12:28:09 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.342	152	241721	40.00	ppb	0.00
24) Naphthalene-d8	4.656	136	1007994	40.00	ppb	0.00
47) Acenaphthene-d10	6.697	164	655250	40.00	ppb	0.00
69) Phenanthrene-d10	8.476	188	1105407	40.00	ppb	0.00
83) Chrysene-d12	12.136	240	1265705	40.00	ppb	0.00
92) Perylene-d12	14.171	264	882873	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	3.342	152	241721	40.00	ppb	0.00
104) Phenanthrene-d10a	8.476	188	1105407	40.00	ppb	0.03
107) Chrysene-d12a	12.136	240	1265705	40.00	ppb	0.04
110) Acenaphthene-d10a	6.697	164	655250	40.00	ppb	0.00
112) Naphthalene-d8a	4.656	136	1007994	40.00	ppb	0.00
114) Chrysene-d12b	12.136	240	1265705	40.00	ppb	0.04
System Monitoring Compounds						
5) 2-Fluorophenol	2.290	112	329478	46.45	ppb	0.00
Spiked Amount 50.000			Recovery	=	92.90%	
8) Phenol-d5	3.032	99	464819	46.27	ppb	0.00
Spiked Amount 50.000			Recovery	=	92.54%	
25) Nitrobenzene-d5	3.893	82	472111	49.42	ppb	0.00
Spiked Amount 50.000			Recovery	=	98.84%	
51) 2-Fluorobiphenyl	5.923	172	988333	47.21	ppb	0.00
Spiked Amount 50.000			Recovery	=	94.42%	
73) 2,4,6-Tribromophenol	7.653	330	174150	47.76	ppb	0.00
Spiked Amount 50.000			Recovery	=	95.52%	
86) Terphenyl-d14	10.629	244	1235288	51.62	ppb	0.00
Spiked Amount 50.000			Recovery	=	103.24%	
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	1.408	88	77373	48.07	ppb	98
3) Pyridine	1.558	79	233883	46.32	ppb	94
4) N-Nitrosodimethylamine	1.537	74	137507	48.03	ppb	97
6) Indene	3.588	116	714425	48.67	ppb	98
7) Cumene	2.653	105	973713	47.43	ppb	99
9) Phenol	3.048	94	539312	46.50	ppb	86
10) Aniline	3.048	93	535377	48.49	ppb	98
11) bis(2-Chloroethyl)ether	3.097	93	330326	49.20	ppb	98
12) 2-Chlorophenol	3.161	128	420289	46.92	ppb	96
13) Decane	3.187	43	439845	49.07	ppb	99
14) 1,3-Dichlorobenzene	3.289	146	487009	48.71	ppb	99
15) 1,4-Dichlorobenzene	3.358	146	502413	48.99	ppb	99
16) Benzyl alcohol	3.486	108	294536	47.68	ppb	97
17) 1,2-Dichlorobenzene	3.503	146	471740	48.00	ppb	99
18) Acetophenone	3.743	105	640263	49.13	ppb	95
19) 2-Methylphenol	3.615	108	378444	48.31	ppb	99
20) 2,2'-oxybis(1-Chloropr...	3.609	121	131903	47.75	ppb	91

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4615\
 Data File : z92862.D
 Acq On : 24 Jun 2014 11:35 am
 Operator : ashleyv
 Sample : icc4615-50
 Misc : op75490,ez4615
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 24 16:39:26 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MZ4615.M
 Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 QLast Update : Tue Jun 24 12:28:09 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
21) 3&4-Methylphenol	3.775	108	408338	49.05	ppb	96
22) n-Nitroso-di-n-propyla...	3.743	70	316764	49.58	ppb	98
23) Hexachloroethane	3.834	201	174046	48.36	ppb	95
26) Nitrobenzene	3.914	77	486809	48.01	ppb	99
27) Quinoline	5.073	129	923274	49.16	ppb	99
28) Isophorone	4.165	82	827407	50.38	ppb	98
29) 2-Nitrophenol	4.250	139	259784	47.35	ppb	93
30) 2,4-Dimethylphenol	4.331	107	442865	46.30	ppb	98
31) Benzoic Acid	4.512	105	387047m	50.87	ppb	
32) bis(2-Chloroethoxy)met...	4.416	93	435221	49.58	ppb	99
33) 2,4-Dichlorophenol	4.528	162	380185	47.49	ppb	97
34) 2,6-Dichlorophenol	4.774	162	383708	46.41	ppb	99
35) 1,3,5-Trichlorobenzene	4.261	180	466966	47.33	ppb	99
36) 1,2,4-Trichlorobenzene	4.603	180	433069	47.87	ppb	98
37) 1,2,3-Trichlorobenzene	4.849	180	440863	47.03	ppb	97
38) Naphthalene	4.683	128	1332601	47.93	ppb	100
39) 4-Chloroaniline	4.769	127	573989	48.51	ppb	98
40) 2,3-Dichloroaniline	5.821	161	498461	48.32	ppb	98
41) Caprolactam	5.180	55	215315	58.75	ppb	96
42) Hexachlorobutadiene	4.838	225	271366	47.39	ppb	97
43) 4-Chloro-3-methylphenol	5.378	107	434200	50.41	ppb	# 60
44) 2-Methylnaphthalene	5.474	141	801378	47.67	ppb	98
45) 1-Methylnaphthalene	5.586	141	805767	47.41	ppb	97
46) Dimethylnaphthalene	6.216	156	868131	47.81	ppb	98
49) 2,4,6-Trichlorophenol	5.837	196	292730	47.38	ppb	99
50) 2,4,5-Trichlorophenol	5.891	196	323343	49.04	ppb	99
52) 2-Chloronaphthalene	6.045	162	928401	46.83	ppb	98
53) Biphenyl	6.035	154	1217814	45.64	ppb	99
54) 2-Nitroaniline	6.200	65	320992	48.02	ppb	94
55) Dimethylphthalate	6.430	163	1029534	49.70	ppb	99
56) Acenaphthylene	6.526	152	1465114	47.81	ppb	99
57) 2,6-Dinitrotoluene	6.494	165	231116	50.13	ppb	98
58) 3-Nitroaniline	6.692	138	288844	58.70	ppb	96
59) Acenaphthene	6.740	153	911330	48.53	ppb	98
61) 4-Nitrophenol	6.975	109	201482	48.55	ppb	94
62) Dibenzofuran	6.948	168	1315320	48.52	ppb	100
63) 2,4-Dinitrotoluene	6.980	165	348434	60.78	ppb	95
64) 2,3,4,6-Tetrachlorophenol	7.125	232	275967	48.99	ppb	93
65) Diethylphthalate	7.279	149	1164447	56.44	ppb	99
66) Fluorene	7.354	166	1089872	48.08	ppb	100
67) 4-Chlorophenyl-phenyle...	7.376	204	490140	47.07	ppb	99
68) 4-Nitroaniline	7.434	138	282162	63.34	ppb	99
70) 4,6-Dinitro-2-methylph...	7.472	198	204597	52.25	ppb	97
71) n-Nitrosodiphenylamine	7.531	169	713113	48.94	ppb	100
72) 1,2-Diphenylhydrazine	7.568	77	1126995	46.91	ppb	97
74) 4-Bromophenyl-phenylether	7.958	248	308866	46.16	ppb	97
75) Hexachlorobenzene	8.022	284	369922	48.92	ppb	94
76) Pentachlorophenol	8.284	266	438337	93.38	ppb	98
77) Phenanthrene	8.503	178	1589028	48.46	ppb	100
78) Anthracene	8.567	178	1583303	48.40	ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4615\
 Data File : z92862.D
 Acq On : 24 Jun 2014 11:35 am
 Operator : ashleyv
 Sample : icc4615-50
 Misc : op75490,ez4615
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 24 16:39:26 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MZ4615.M
 Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 QLast Update : Tue Jun 24 12:28:09 2014
 Response via : Initial Calibration

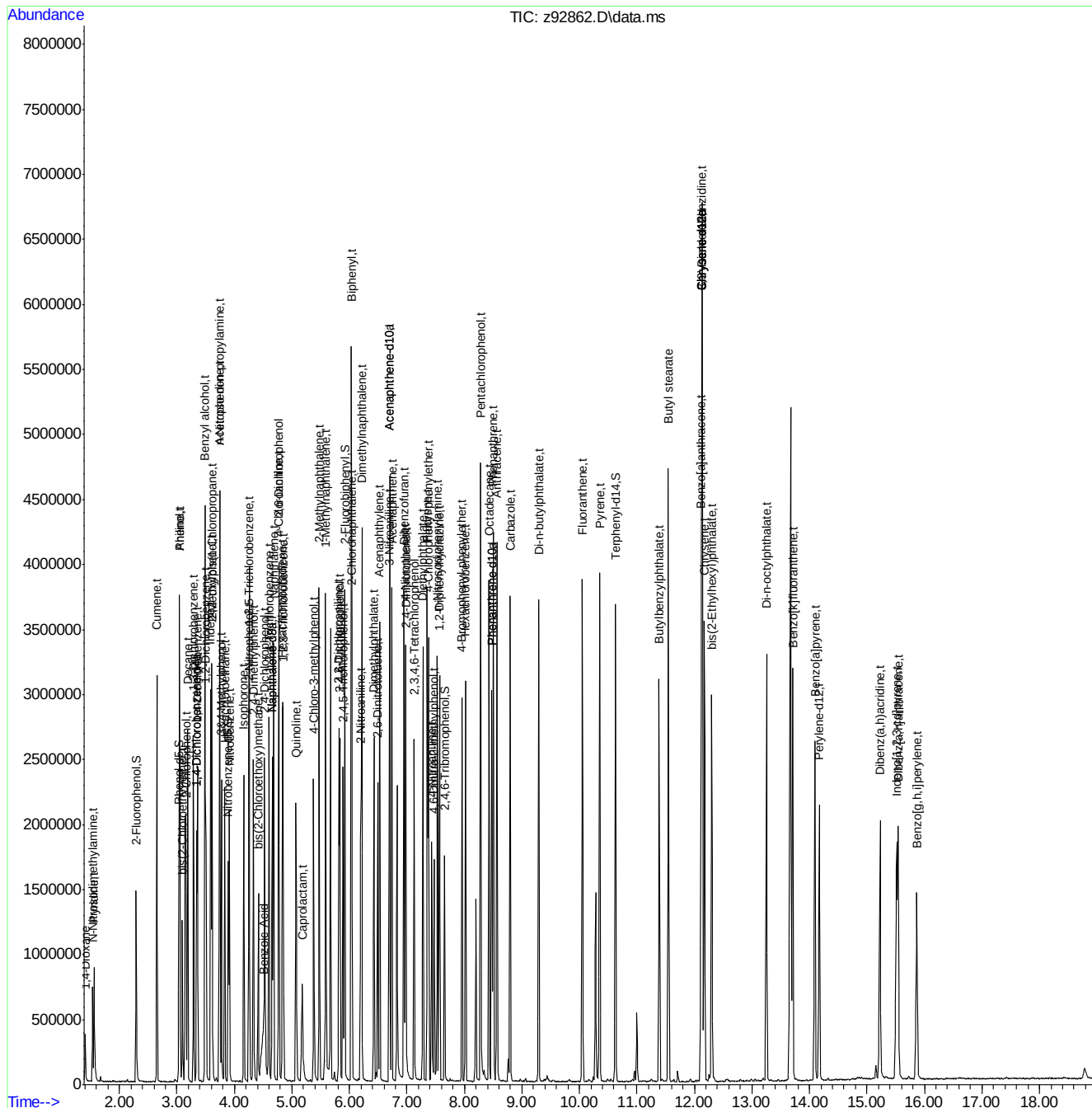
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
79) Carbazole	8.797	167	1490533	51.78	ppb	99
80) Di-n-butylphthalate	9.294	149	1997646	48.39	ppb	99
81) Fluoranthene	10.052	202	1753963	49.51	ppb	97
82) Octadecane	8.428	57	671235	43.16	ppb	96
84) Pyrene	10.357	202	1823909	52.04	ppb	98
85) Butyl stearate	11.548	56	668248	46.20	ppb	95
87) Butylbenzylphthalate	11.393	149	897102	46.41	ppb	95
88) Benzo[a]anthracene	12.120	228	1667663	45.01	ppb	100
89) 3,3'-Dichlorobenzidine	12.136	252	690572	50.30	ppb	99
90) Chrysene	12.173	228	1414388	51.11	ppb	99
91) bis(2-Ethylhexyl)phtha...	12.301	149	1093827	46.78	ppb	99
93) Di-n-octylphthalate	13.252	149	1961684	40.05	ppb	98
95) Benzo[k]fluoranthene	13.712	252	1359553	44.38	ppb	98
96) Benzo[a]pyrene	14.096	252	1268503	44.25	ppb	99
97) Indeno[1,2,3-cd]pyrene	15.517	276	1306456	42.91	ppb	100
98) Dibenz(a,h)acridine	15.229	279	1017326	41.86	ppb	99
99) Dibenz[a,h]anthracene	15.544	278	1032449	42.47	ppb	98
101) Benzo[g,h,i]perylene	15.870	276	962907	43.69	ppb	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4615\
Data File : z92862.D
Acq On : 24 Jun 2014 11:35 am
Operator : ashleyv
Sample : icc4615-50
Misc : op75490,ez4615
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 24 16:39:26 2014
Quant Method : C:\MSDCHEM\1\METHODS\MZ4615.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Tue Jun 24 12:28:09 2014
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: EZ4615-ICC4615

Method: SW846 8270D

Lab FileID: Z92862.D

Analyst approved: 06/25/14 16:18 Ashley Vought

Injection Time: 06/24/14 11:35

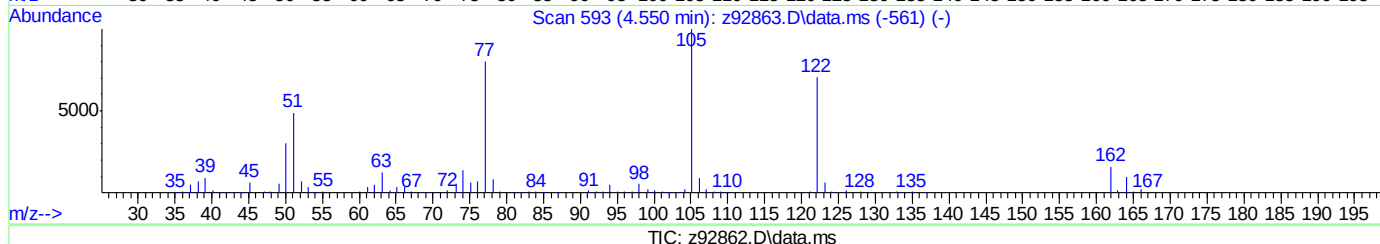
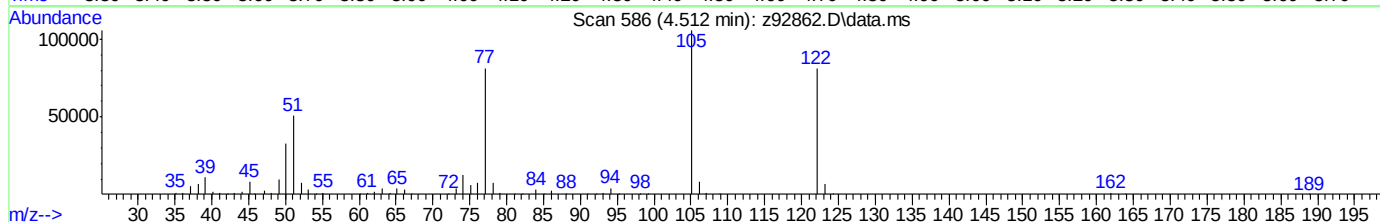
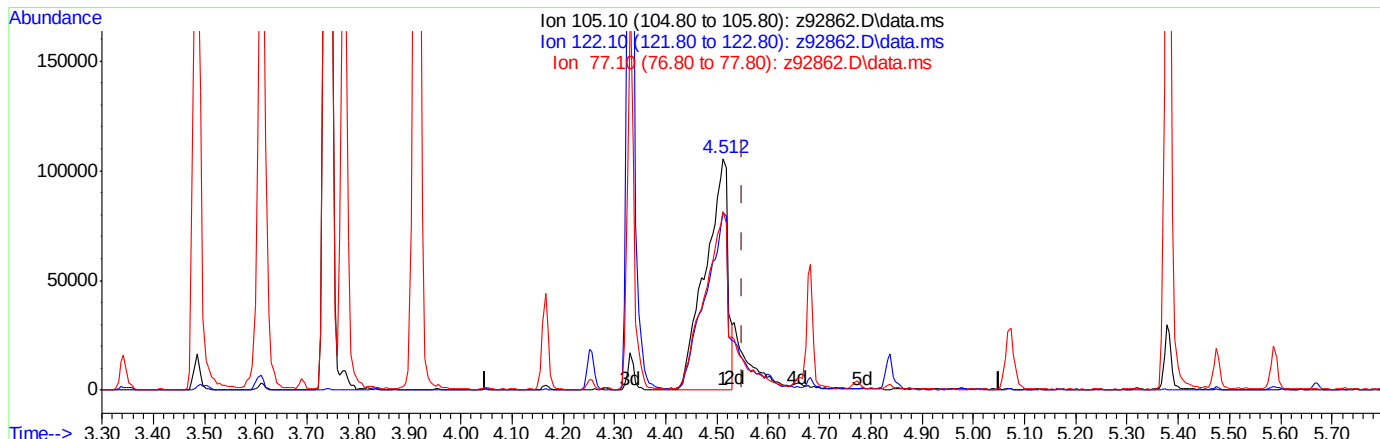
Supervisor approved: 06/27/14 13:21 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic Acid	65-85-0		4.51	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez4615\
Data File : z92862.D
Acq On : 24 Jun 2014 11:35 am
Operator : ashleyv
Sample : ic4615-50
Misc : op75490,ez4615
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 24 12:29:19 2014
Quant Method : C:\MSDCHEM\1\METHODS\MZ4615.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Tue Jun 24 12:28:09 2014
Response via : Initial Calibration



(31) Benzoic Acid

4.512min (-0.038) 42.06ppb

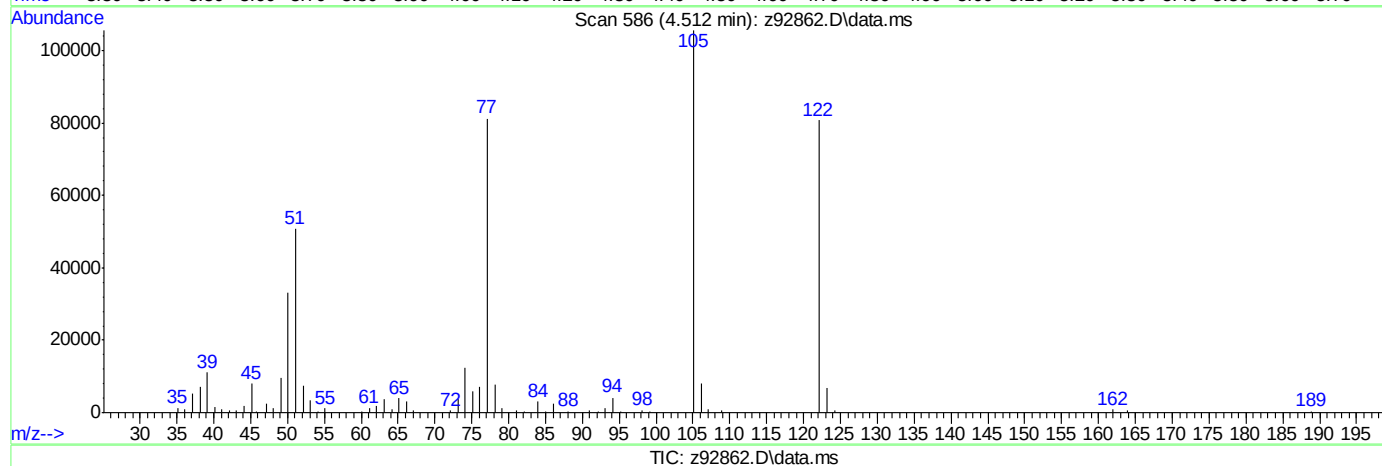
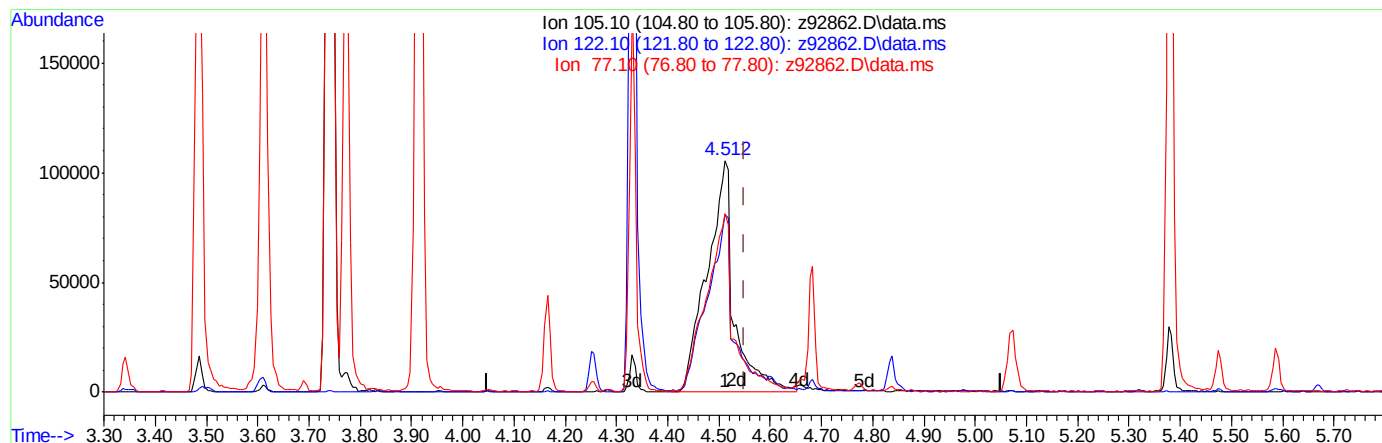
response 320043

Ion	Exp%	Act%
105.10	100	100
122.10	69.00	76.53
77.10	35.20	78.27#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez4615\
Data File : z92862.D
Acq On : 24 Jun 2014 11:35 am
Operator : ashleyv
Sample : ic4615-50
Misc : op75490,ez4615
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 24 16:39:26 2014
Quant Method : C:\MSDCHEM\1\METHODS\MZ4615.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Tue Jun 24 12:28:09 2014
Response via : Initial Calibration



(31) Benzoic Acid

4.512min (-0.038) 50.87ppb m

response 387047

Ion	Exp%	Act%
105.10	100	100
122.10	69.00	63.29
77.10	35.20	64.72#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4615\
 Data File : z92863.D
 Acq On : 24 Jun 2014 12:01 pm
 Operator : ashleyv
 Sample : ic4615-100
 Misc : op75490,ez4615
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 24 12:27:44 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MZ4615.M
 Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 QLast Update : Tue Jun 24 12:24:36 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.342	152	222288	40.00	ppb	0.00
24) Naphthalene-d8	4.657	136	906476	40.00	ppb	0.00
47) Acenaphthene-d10	6.697	164	582369	40.00	ppb	0.00
69) Phenanthrene-d10	8.476	188	838950	40.00	ppb	0.00
83) Chrysene-d12	12.136	240	1010367	40.00	ppb	0.00
92) Perylene-d12	14.166	264	579836	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	3.342	152	222288	40.00	ppb	0.00
104) Phenanthrene-d10a	8.450	188	111680	40.00	ppb	0.00
107) Chrysene-d12a	12.098	240	94071	40.00	ppb	0.00
110) Acenaphthene-d10a	6.697	164	582369	40.00	ppb	0.00
112) Naphthalene-d8a	4.657	136	906476	40.00	ppb	0.00
114) Chrysene-d12b	12.098	240	94071	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	2.295	112	652248	118.44	ppb	0.00
Spiked Amount 50.000			Recovery	=	236.88%	
8) Phenol-d5	3.038	99	923904	115.84	ppb	0.00
Spiked Amount 50.000			Recovery	=	231.68%	
25) Nitrobenzene-d5	3.898	82	859059	108.70	ppb	0.00
Spiked Amount 50.000			Recovery	=	217.40%	
51) 2-Fluorobiphenyl	5.923	172	1860487	106.78	ppb	0.00
Spiked Amount 50.000			Recovery	=	213.56%	
73) 2,4,6-Tribromophenol	7.654	330	276756	115.11	ppb	0.00
Spiked Amount 50.000			Recovery	=	230.22%	
86) Terphenyl-d14	10.635	244	1910308	97.71	ppb	0.00
Spiked Amount 50.000			Recovery	=	195.42%	
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	1.409	88	148025	141.26	ppb	93
3) Pyridine	1.563	79	464360	161.90	ppb	89
4) N-Nitrosodimethylamine	1.542	74	263304	164.42	ppb	76
6) Indene	3.588	116	1349977	107.42	ppb	96
7) Cumene	2.653	105	1888002	110.57	ppb	99
9) Phenol	3.054	94	1066466	117.70	ppb	90
10) Aniline	3.049	93	1015390	103.77	ppb	73
11) bis(2-Chloroethyl)ether	3.102	93	617401	104.48	ppb	96
12) 2-Chlorophenol	3.161	128	823675	109.40	ppb	99
13) Decane	3.187	43	824382	111.67	ppb	88
14) 1,3-Dichlorobenzene	3.289	146	919411	106.34	ppb	97
15) 1,4-Dichlorobenzene	3.358	146	943113	105.32	ppb	99
16) Benzyl alcohol	3.492	108	568071	118.81	ppb	91
17) 1,2-Dichlorobenzene	3.508	146	903810	107.01	ppb	99
18) Acetophenone	3.743	105	1198356	109.79	ppb	95
19) 2-Methylphenol	3.615	108	720364	110.25	ppb	99
20) 2,2'-oxybis(1-Chloropr...	3.610	121	254018	108.90	ppb #	74

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4615\
 Data File : z92863.D
 Acq On : 24 Jun 2014 12:01 pm
 Operator : ashleyv
 Sample : ic4615-100
 Misc : op75490,ez4615
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 24 12:27:44 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MZ4615.M
 Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 QLast Update : Tue Jun 24 12:24:36 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
21) 3&4-Methylphenol	3.780	108	765615	110.39	ppb	98
22) n-Nitroso-di-n-propyla...	3.748	70	587539	110.97	ppb	87
23) Hexachloroethane	3.834	201	330958	103.69	ppb	92
26) Nitrobenzene	3.919	77	911923	110.68	ppb	96
27) Quinoline	5.079	129	1689092	108.55	ppb	98
28) Isophorone	4.170	82	1476934	108.41	ppb	94
29) 2-Nitrophenol	4.256	139	493412	110.20	ppb	91
30) 2,4-Dimethylphenol	4.336	107	860195	117.92	ppb	95
31) Benzoic Acid	4.550	105	684243m	126.97	ppb	
32) bis(2-Chloroethoxy)met...	4.416	93	789370	105.45	ppb	99
33) 2,4-Dichlorophenol	4.534	162	719973	112.68	ppb	99
34) 2,6-Dichlorophenol	4.779	162	743438	114.08	ppb	100
35) 1,3,5-Trichlorobenzene	4.261	180	887215	110.24	ppb	97
36) 1,2,4-Trichlorobenzene	4.603	180	813504	106.11	ppb	95
37) 1,2,3-Trichlorobenzene	4.854	180	843076	109.50	ppb	99
38) Naphthalene	4.683	128	2500186	107.33	ppb	99
39) 4-Chloroaniline	4.774	127	1064158	108.93	ppb	95
40) 2,3-Dichloroaniline	5.821	161	927784	110.76	ppb	97
41) Caprolactam	5.207	55	329587	94.94	ppb	89
42) Hexachlorobutadiene	4.838	225	514906	109.78	ppb	98
43) 4-Chloro-3-methylphenol	5.383	107	774643	112.92	ppb	86
44) 2-Methylnaphthalene	5.479	141	1511767	111.60	ppb	97
45) 1-Methylnaphthalene	5.591	141	1528250	110.55	ppb	97
46) Dimethylnaphthalene	6.217	156	1633024	114.00	ppb	95
48) Hexachlorocyclopentadiene	5.672	237	1026279	202.17	ppb	100
49) 2,4,6-Trichlorophenol	5.843	196	549075	108.57	ppb	99
50) 2,4,5-Trichlorophenol	5.896	196	586066	109.33	ppb	99
52) 2-Chloronaphthalene	6.046	162	1762039	109.44	ppb	96
53) Biphenyl	6.035	154	2371411	111.67	ppb	99
54) 2-Nitroaniline	6.200	65	594123	117.00	ppb	89
55) Dimethylphthalate	6.436	163	1841195	102.73	ppb	100
56) Acenaphthylene	6.532	152	2723791	105.26	ppb	99
57) 2,6-Dinitrotoluene	6.500	165	409761	104.47	ppb	89
58) 3-Nitroaniline	6.697	138	437341	94.04	ppb	88
59) Acenaphthene	6.740	153	1669030	105.93	ppb	99
60) 2,4-Dinitrophenol	6.836	184	508422	185.61	ppb	90
61) 4-Nitrophenol	6.980	109	368854	142.92	ppb	# 82
62) Dibenzofuran	6.954	168	2409324	107.64	ppb	95
63) 2,4-Dinitrotoluene	6.986	165	509490	92.33	ppb	92
64) 2,3,4,6-Tetrachlorophenol	7.130	232	500682	114.38	ppb	96
65) Diethylphthalate	7.285	149	1833520	96.63	ppb	100
66) Fluorene	7.360	166	2014787	111.02	ppb	98
67) 4-Chlorophenyl-phenyle...	7.376	204	925424	109.84	ppb	91
68) 4-Nitroaniline	7.440	138	395900	88.05	ppb	83
70) 4,6-Dinitro-2-methylph...	7.477	198	297184m	106.06	ppb	
71) n-Nitrosodiphenylamine	7.536	169	1105902	110.85	ppb	99
72) 1,2-Diphenylhydrazine	7.568	77	1823262	124.08	ppb	96
74) 4-Bromophenyl-phenylether	7.958	248	507814	117.77	ppb	91
75) Hexachlorobenzene	8.028	284	573886	110.69	ppb	96
76) Pentachlorophenol	8.289	266	712488	253.22	ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4615\
 Data File : z92863.D
 Acq On : 24 Jun 2014 12:01 pm
 Operator : ashleyv
 Sample : ic4615-100
 Misc : op75490,ez4615
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 24 12:27:44 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MZ4615.M
 Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 QLast Update : Tue Jun 24 12:24:36 2014
 Response via : Initial Calibration

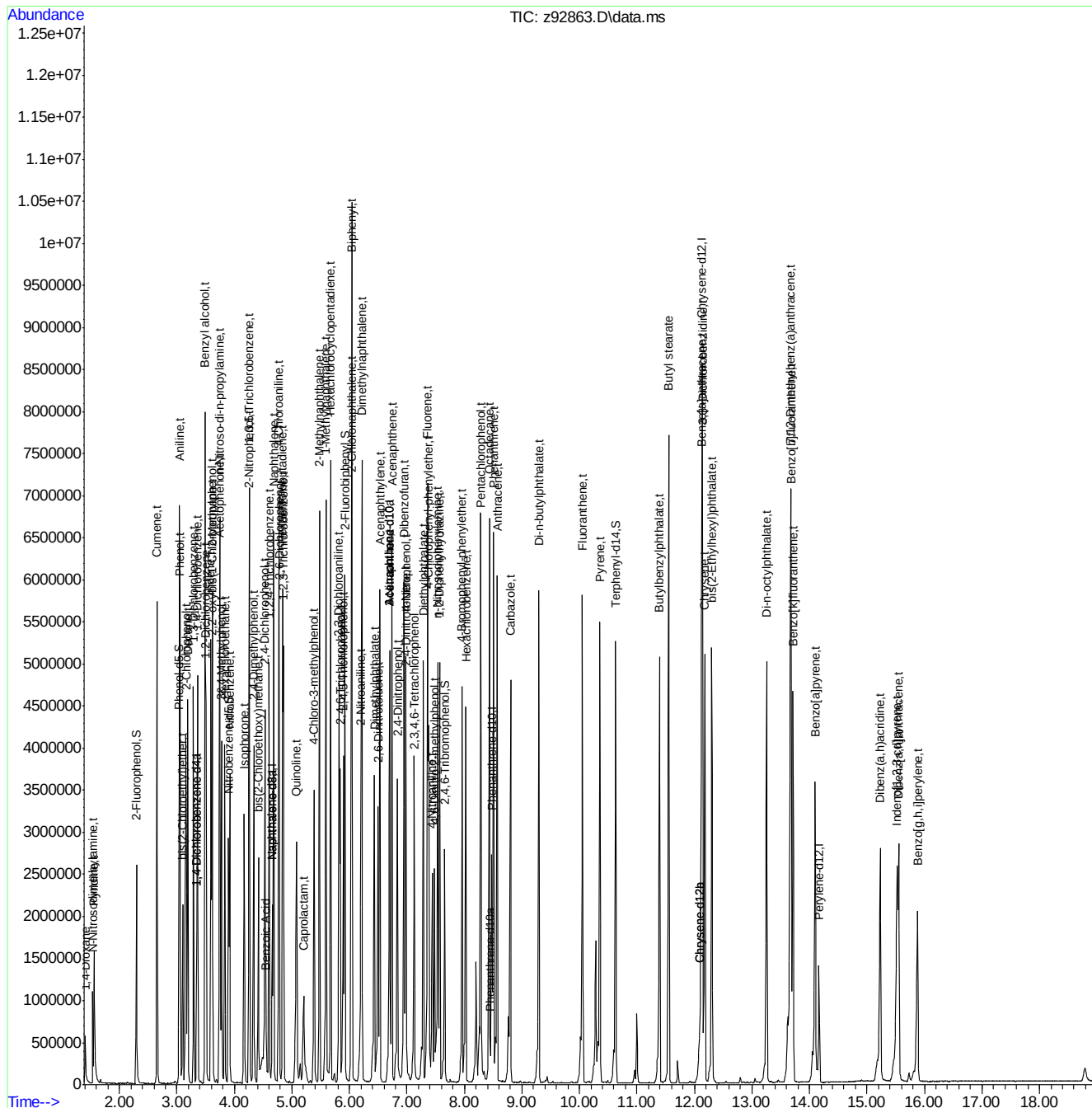
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
77) Phenanthrene	8.508	178	2488645	109.38	ppb	100
78) Anthracene	8.572	178	2482607	109.07	ppb	100
79) Carbazole	8.802	167	2184700	103.69	ppb	99
80) Di-n-butylphthalate	9.294	149	3132819	117.91	ppb	99
81) Fluoranthene	10.052	202	2688492	111.15	ppb	99
82) Octadecane	8.434	57	1180285	131.44	ppb	95
84) Pyrene	10.362	202	2797673	96.16	ppb	94
85) Butyl stearate	11.553	56	1154751	112.03	ppb	99
87) Butylbenzylphthalate	11.393	149	1543175	112.89	ppb	93
88) Benzo[a]anthracene	12.125	228	2957838	109.02	ppb	99
89) 3,3'-Dichlorobenzidine	12.141	252	1096028m	104.60	ppb	
90) Chrysene	12.178	228	2209182	93.95	ppb	100
91) bis(2-Ethylhexyl)phtha...	12.301	149	1866468	102.63	ppb	98
93) Di-n-octylphthalate	13.258	149	3216991	146.64	ppb	98
94) Benzo[b]fluoranthene	13.680	252	2880727	153.56	ppb	100
95) Benzo[k]fluoranthene	13.717	252	2011859	118.91	ppb	99
96) Benzo[a]pyrene	14.102	252	1882572	118.78	ppb	100
97) Indeno[1,2,3-cd]pyrene	15.523	276	1999531	150.76	ppb	97
98) Dibenz(a,h)acridine	15.234	279	1596168	152.23	ppb	100
99) Dibenz[a,h]anthracene	15.555	278	1596773	149.89	ppb	99
100) 7,12-Dimethylbenz(a)an...	13.674	256	1175224	141.25	ppb	99
101) Benzo[g,h,i]perylene	15.881	276	1447406	150.22	ppb	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4615\
Data File : z92863.D
Acq On : 24 Jun 2014 12:01 pm
Operator : ashleyv
Sample : ic4615-100
Misc : op75490,ez4615
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 24 12:27:44 2014
Quant Method : C:\MSDCHEM\1\METHODS\MZ4615.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Tue Jun 24 12:24:36 2014
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: EZ4615-IC4615

Method: SW846 8270D

Lab FileID: Z92863.D

Analyst approved: 06/25/14 16:02 Ashley Vought

Injection Time: 06/24/14 12:01

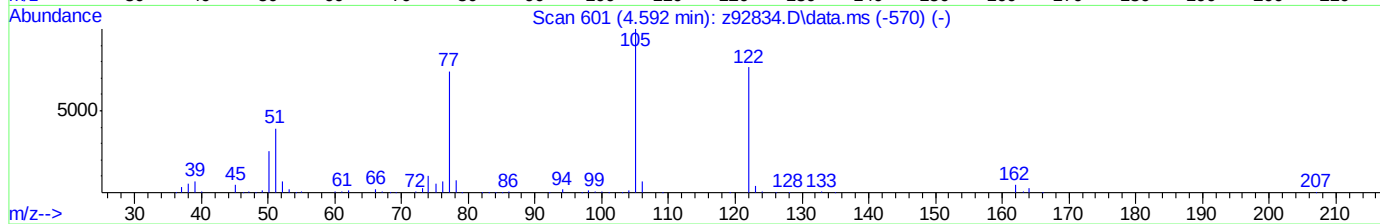
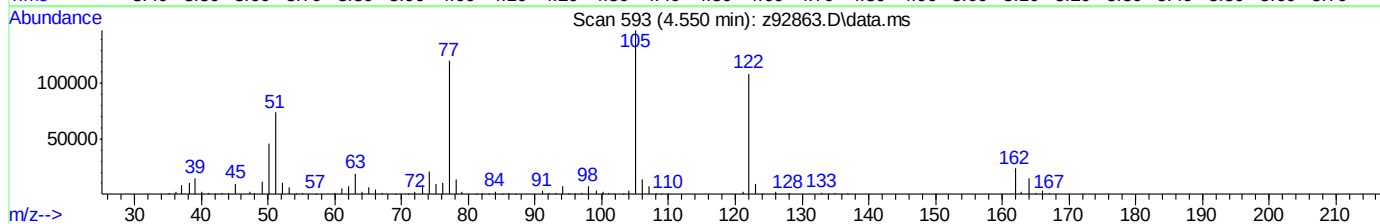
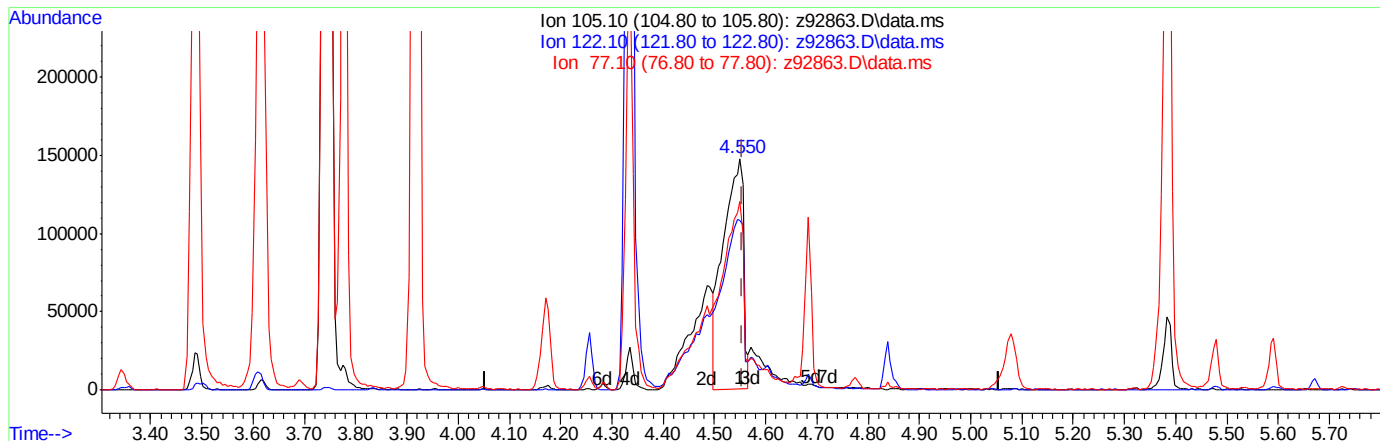
Supervisor approved: 06/27/14 13:21 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic Acid	65-85-0		4.55	Poor instrument integration
4,6-Dinitro-o-cresol	534-52-1		7.48	Poor instrument integration
3,3'-Dichlorobenzidine	91-94-1		12.14	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez4615\
Data File : z92863.D
Acq On : 24 Jun 2014 12:01 pm
Operator : ashleyv
Sample : ic4615-100
Misc : op75490,ez4615
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 24 12:20:03 2014
Quant Method : C:\MSDCHEM\1\METHODS\MZ4615.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Mon Jun 23 18:09:26 2014
Response via : Initial Calibration



TIC: z92863.D\data.ms

(31) Benzoic Acid

4.550min (-0.005) 75.17ppb

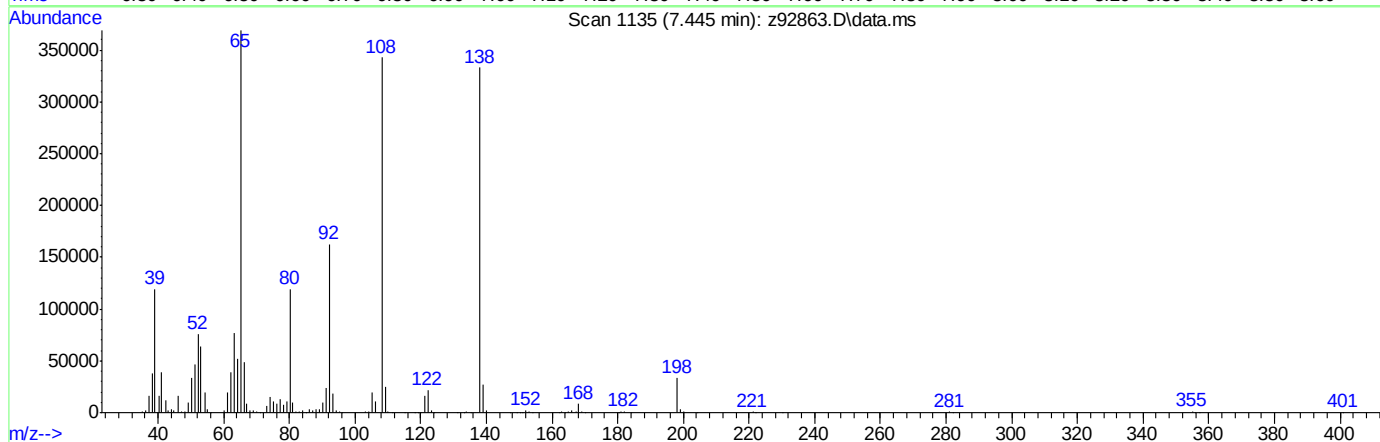
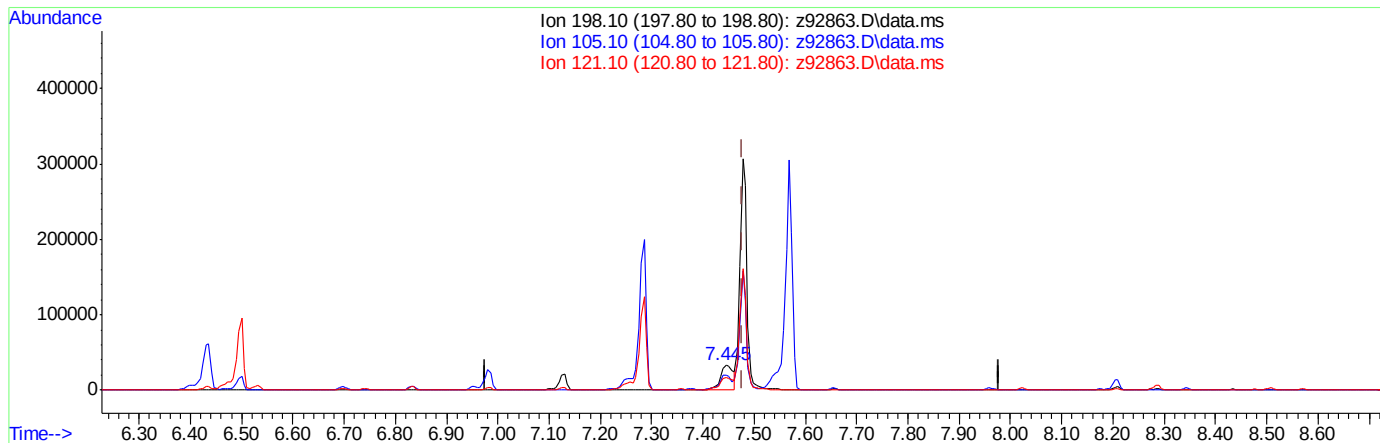
response 405061

Ion	Exp%	Act%
105.10	100	100
122.10	50.80	116.50#
77.10	48.30	59.41
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez4615\
Data File : z92863.D
Acq On : 24 Jun 2014 12:01 pm
Operator : ashleyv
Sample : ic4615-100
Misc : op75490,ez4615
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 24 12:25:10 2014
Quant Method : C:\MSDCHEM\1\METHODS\MZ4615.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Tue Jun 24 12:24:36 2014
Response via : Initial Calibration



(70) 4,6-Dinitro-2-methylphenol (t)

7.445min (-0.032) 20.23ppb

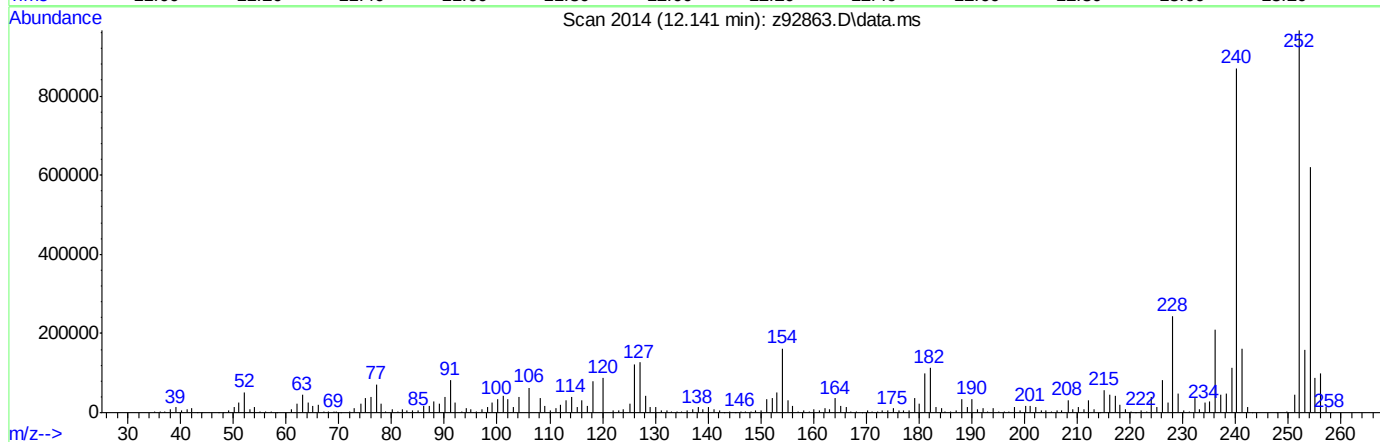
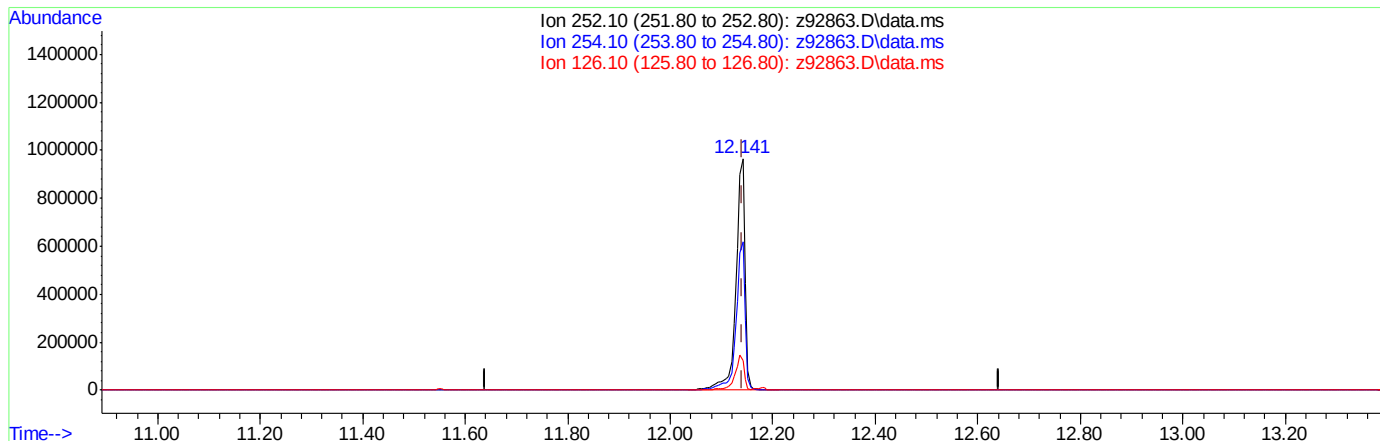
response 56681

Ion	Exp%	Act%
198.10	100	100
105.10	42.10	60.09
121.10	42.20	46.49
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez4615\
Data File : z92863.D
Acq On : 24 Jun 2014 12:01 pm
Operator : ashleyv
Sample : ic4615-100
Misc : op75490,ez4615
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 24 12:25:10 2014
Quant Method : C:\MSDCHEM\1\METHODS\MZ4615.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Tue Jun 24 12:24:36 2014
Response via : Initial Calibration



(89) 3,3'-Dichlorobenzidine (t)

12.141min (0.000) 113.90ppb

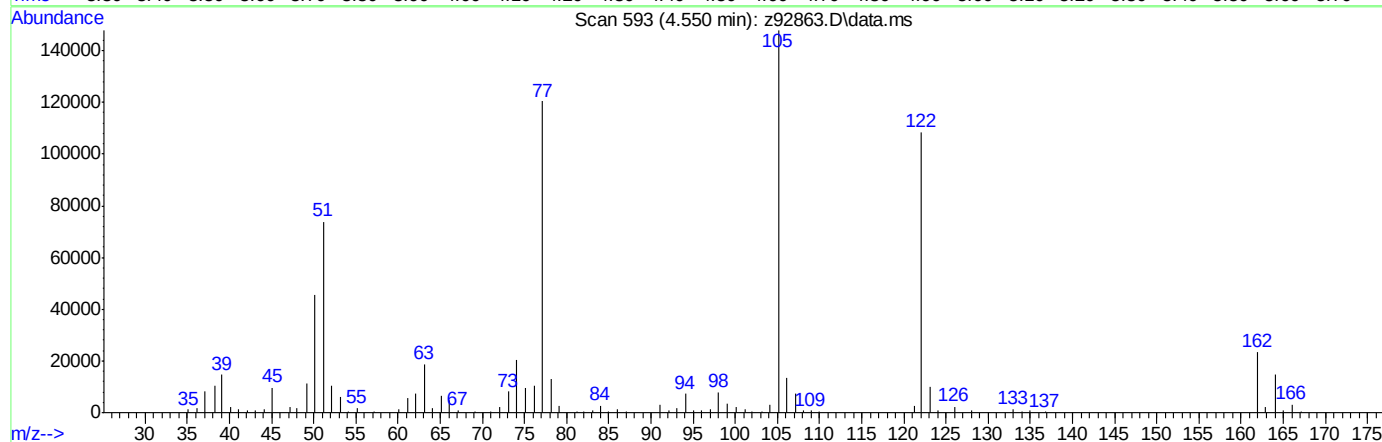
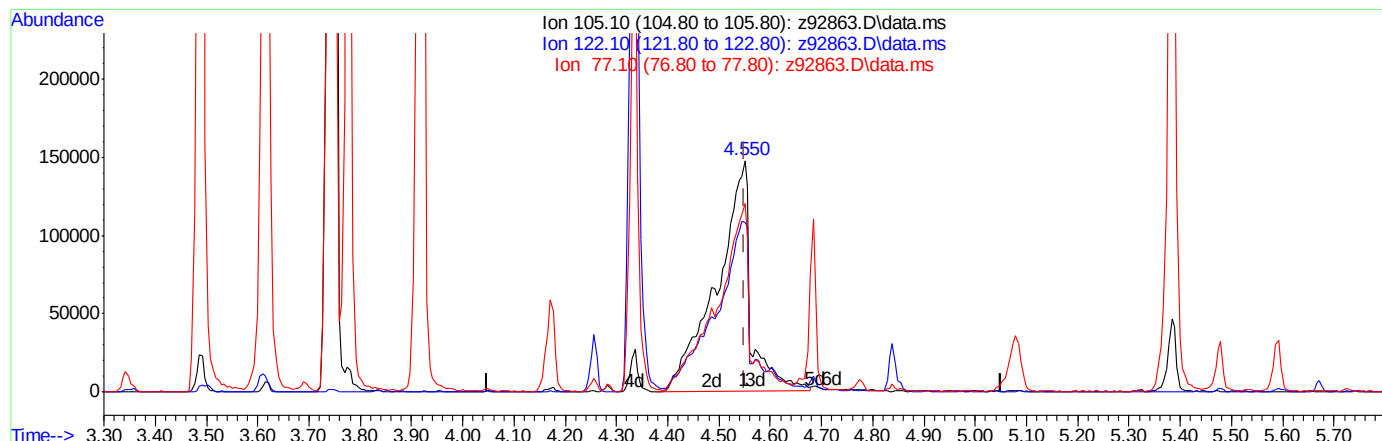
response 1193531

Ion	Exp%	Act%
252.10	100	100
254.10	62.10	64.14
126.10	12.20	12.73
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez4615\
Data File : z92863.D
Acq On : 24 Jun 2014 12:01 pm
Operator : ashleyv
Sample : ic4615-100
Misc : op75490,ez4615
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 24 12:27:44 2014
Quant Method : C:\MSDCHEM\1\METHODS\MZ4615.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Tue Jun 24 12:24:36 2014
Response via : Initial Calibration



(31) Benzoic Acid

4.550min (0.000) 126.97ppb m

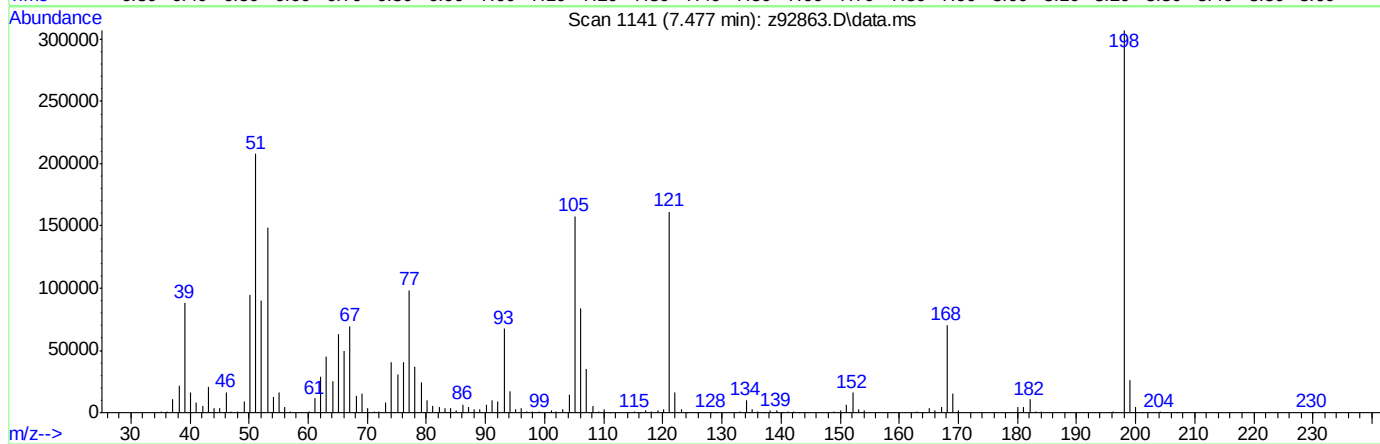
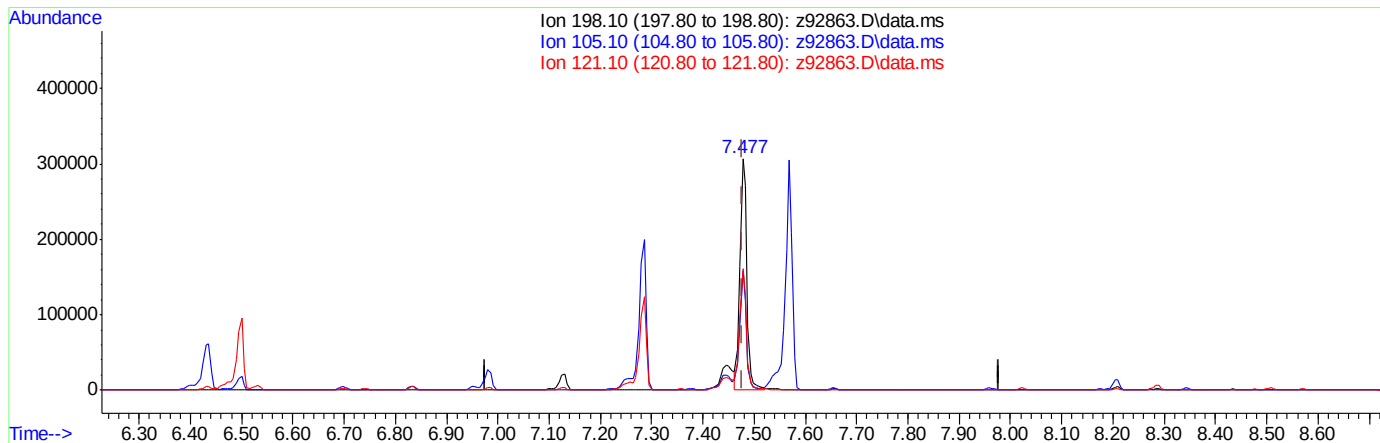
response 684243

Ion	Exp%	Act%
105.10	100	100
122.10	50.80	68.97
77.10	48.30	35.17
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez4615\
Data File : z92863.D
Acq On : 24 Jun 2014 12:01 pm
Operator : ashleyv
Sample : ic4615-100
Misc : op75490,ez4615
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 24 12:27:44 2014
Quant Method : C:\MSDCHEM\1\METHODS\MZ4615.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Tue Jun 24 12:24:36 2014
Response via : Initial Calibration



(70) 4,6-Dinitro-2-methylphenol (t)

7.477min (0.000) 106.06ppb m

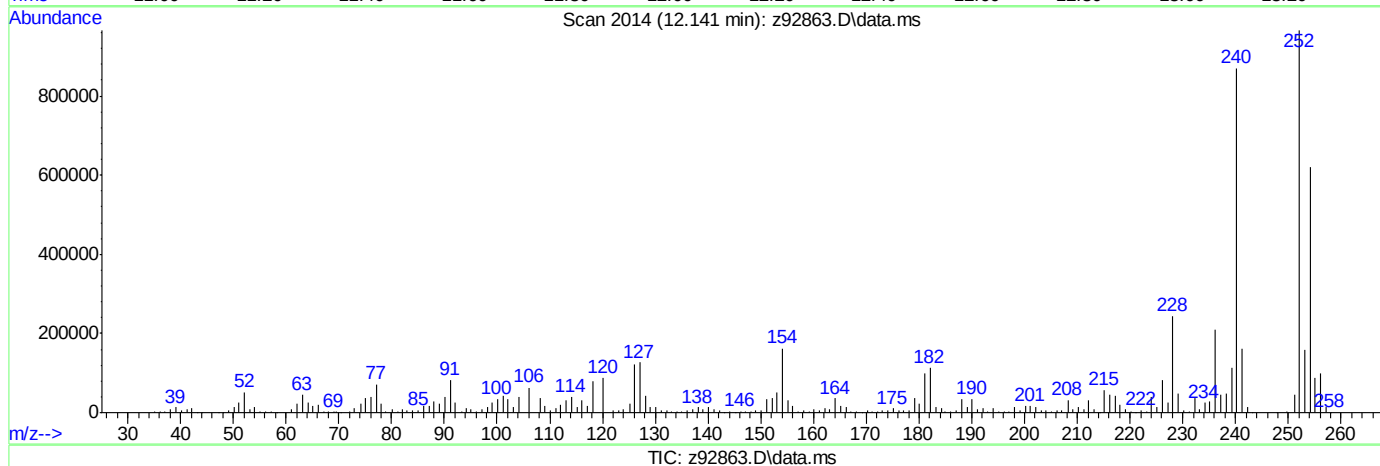
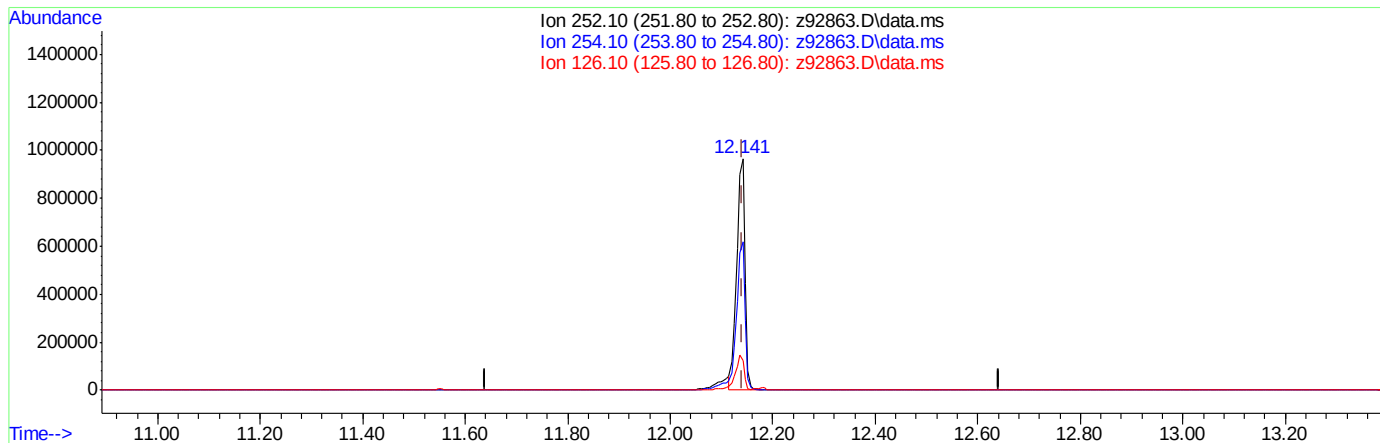
response 297184

Ion	Exp%	Act%
198.10	100	100
105.10	42.10	51.45
121.10	42.20	52.59
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez4615\
Data File : z92863.D
Acq On : 24 Jun 2014 12:01 pm
Operator : ashleyv
Sample : ic4615-100
Misc : op75490,ez4615
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 24 12:27:44 2014
Quant Method : C:\MSDCHEM\1\METHODS\MZ4615.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Tue Jun 24 12:24:36 2014
Response via : Initial Calibration



(89) 3,3'-Dichlorobenzidine (t)

12.141min (0.000) 104.60ppb m

response 1096028

Ion	Exp%	Act%
252.10	100	100
254.10	62.10	64.17
126.10	12.20	12.73
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4615\
 Data File : z92864.D
 Acq On : 24 Jun 2014 12:27 pm
 Operator : ashleyv
 Sample : ic4615-1
 Misc : op75490,ez4615
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 27 12:46:11 2014
 Quant Method : C:\msdchem\1\METHODS\MZ4615.M
 Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 QLast Update : Wed Jun 25 09:02:03 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.337	152	219306	40.00	ppb	0.00
24) Naphthalene-d8	4.656	136	900529	40.00	ppb	0.00
47) Acenaphthene-d10	6.697	164	582110	40.00	ppb	0.00
69) Phenanthrene-d10	8.471	188	1050716	40.00	ppb	0.00
83) Chrysene-d12	12.125	240	1091198	40.00	ppb	0.00
92) Perylene-d12	14.166	264	955731	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	3.337	152	219306	40.00	ppb	0.00
104) Phenanthrene-d10a	8.471	188	1050716	40.00	ppb	0.00
107) Chrysene-d12a	12.125	240	1091198	40.00	ppb	0.00
110) Acenaphthene-d10a	6.697	164	582110	40.00	ppb	0.00
112) Naphthalene-d8a	4.656	136	900529	40.00	ppb	0.00
114) Chrysene-d12b	12.125	240	1091198	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	2.295	112	4625	0.83	ppb	0.00
Spiked Amount 50.000			Recovery	=	1.66%	
8) Phenol-d5	3.038	99	6452	0.82	ppb	0.00
Spiked Amount 50.000			Recovery	=	1.64%	
25) Nitrobenzene-d5	3.893	82	8042	0.98	ppb	0.00
Spiked Amount 50.000			Recovery	=	1.96%	
51) 2-Fluorobiphenyl	5.917	172	15747	0.92	ppb	0.00
Spiked Amount 50.000			Recovery	=	1.84%	
73) 2,4,6-Tribromophenol	7.653	330	2466	0.84	ppb	0.00
Spiked Amount 50.000			Recovery	=	1.68%	
86) Terphenyl-d14	10.624	244	21466	1.03	ppb	0.00
Spiked Amount 50.000			Recovery	=	2.06%	
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						
2) 1,4-Dioxane	1.414	88	1288	0.90	ppb	Qvalue # 9
3) Pyridine	1.579	79	4238	0.93	ppb	84
4) N-Nitrosodimethylamine	1.547	74	2265	0.86	ppb	85
6) Indene	3.588	116	11404	0.91	ppb	98
7) Cumene	2.653	105	16344	0.95	ppb	97
9) Phenol	3.048	94	8277	0.90	ppb	# 59
10) Aniline	3.048	93	9558	0.99	ppb	88
11) bis(2-Chloroethyl)ether	3.097	93	5759	0.97	ppb	80
12) 2-Chlorophenol	3.161	128	6640	0.90	ppb	88
13) Decane	3.187	43	8519	1.03	ppb	97
14) 1,3-Dichlorobenzene	3.289	146	7703	0.91	ppb	91
15) 1,4-Dichlorobenzene	3.353	146	8773	1.00	ppb	90
16) Benzyl alcohol	3.487	108	4222	0.86	ppb	96
17) 1,2-Dichlorobenzene	3.503	146	7719	0.93	ppb	90
18) Acetophenone	3.738	105	9386	0.85	ppb	93
19) 2-Methylphenol	3.615	108	5958	0.91	ppb	92
20) 2,2'-oxybis(1-Chloropr...	3.604	121	2607	1.07	ppb	# 67

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4615\
 Data File : z92864.D
 Acq On : 24 Jun 2014 12:27 pm
 Operator : ashleyv
 Sample : ic4615-1
 Misc : op75490,ez4615
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 27 12:46:11 2014
 Quant Method : C:\msdchem\1\METHODS\MZ4615.M
 Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 QLast Update : Wed Jun 25 09:02:03 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
21) 3&4-Methylphenol	3.775	108	6135	0.89	ppb	78
22) n-Nitroso-di-n-propyla...	3.738	70	5196	0.93	ppb	96
23) Hexachloroethane	3.834	201	3390	1.08	ppb	# 68
26) Nitrobenzene	3.914	77	8909	1.03	ppb	87
27) Quinoline	5.068	129	14638	0.92	ppb	90
28) Isophorone	4.160	82	13394	0.94	ppb	93
29) 2-Nitrophenol	4.256	139	3543	0.83	ppb	# 59
30) 2,4-Dimethylphenol	4.331	107	6764	0.90	ppb	89
32) bis(2-Chloroethoxy)met...	4.411	93	6546	0.87	ppb	97
33) 2,4-Dichlorophenol	4.534	162	5670	0.88	ppb	99
34) 2,6-Dichlorophenol	4.774	162	5908	0.91	ppb	96
35) 1,3,5-Trichlorobenzene	4.256	180	7169	0.91	ppb	97
36) 1,2,4-Trichlorobenzene	4.603	180	6912	0.93	ppb	95
37) 1,2,3-Trichlorobenzene	4.849	180	6341	0.85	ppb	77
38) Naphthalene	4.678	128	22597	0.97	ppb	97
39) 4-Chloroaniline	4.769	127	8582	0.87	ppb	86
40) 2,3-Dichloroaniline	5.821	161	7994	0.93	ppb	82
41) Caprolactam	5.132	55	4399	1.11	ppb	92
42) Hexachlorobutadiene	4.833	225	4391	0.92	ppb	84
43) 4-Chloro-3-methylphenol	5.378	107	6181	0.84	ppb	# 58
44) 2-Methylnaphthalene	5.474	141	12856	0.92	ppb	91
45) 1-Methylnaphthalene	5.586	141	13275	0.94	ppb	97
46) Dimethylnaphthalene	6.211	156	13281	0.89	ppb	97
48) Hexachlorocyclopentadiene	5.672	237	1010	7.74	ppb	91
49) 2,4,6-Trichlorophenol	5.837	196	4122	0.85	ppb	99
50) 2,4,5-Trichlorophenol	5.896	196	4650	0.87	ppb	90
52) 2-Chloronaphthalene	6.040	162	13925	0.88	ppb	87
53) Biphenyl	6.029	154	19188	0.92	ppb	95
54) 2-Nitroaniline	6.195	65	4863	0.87	ppb	95
55) Dimethylphthalate	6.419	163	17569	0.97	ppb	92
56) Acenaphthylene	6.526	152	23412	0.92	ppb	96
57) 2,6-Dinitrotoluene	6.489	165	3711	0.95	ppb	76
58) 3-Nitroaniline	6.692	138	4526	0.97	ppb	# 1
59) Acenaphthene	6.735	153	15653	0.99	ppb	95
61) 4-Nitrophenol	7.012	109	3051m	0.92	ppb	
62) Dibenzofuran	6.943	168	20336	0.91	ppb	96
63) 2,4-Dinitrotoluene	6.980	165	4952	0.90	ppb	73
64) 2,3,4,6-Tetrachlorophenol	7.125	232	4236	0.94	ppb	84
65) Diethylphthalate	7.269	149	17474	0.89	ppb	98
66) Fluorene	7.354	166	16483	0.90	ppb	91
67) 4-Chlorophenyl-phenyle...	7.370	204	7940	0.96	ppb	93
68) 4-Nitroaniline	7.424	138	4510	0.99	ppb	93
71) n-Nitrosodiphenylamine	7.525	169	11852	0.93	ppb	96
72) 1,2-Diphenylhydrazine	7.557	77	16950	0.84	ppb	97
74) 4-Bromophenyl-phenylether	7.953	248	4629	0.86	ppb	90
75) Hexachlorobenzene	8.017	284	6217	0.93	ppb	83
76) Pentachlorophenol	8.284	266	4211	6.64	ppb	93
77) Phenanthrene	8.498	178	28682	1.00	ppb	96
78) Anthracene	8.562	178	28054	0.98	ppb	97
79) Carbazole	8.791	167	27440	1.03	ppb	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4615\
 Data File : z92864.D
 Acq On : 24 Jun 2014 12:27 pm
 Operator : ashleyv
 Sample : ic4615-1
 Misc : op75490,ez4615
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 27 12:46:11 2014
 Quant Method : C:\msdchem\1\METHODS\MZ4615.M
 Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 QLast Update : Wed Jun 25 09:02:03 2014
 Response via : Initial Calibration

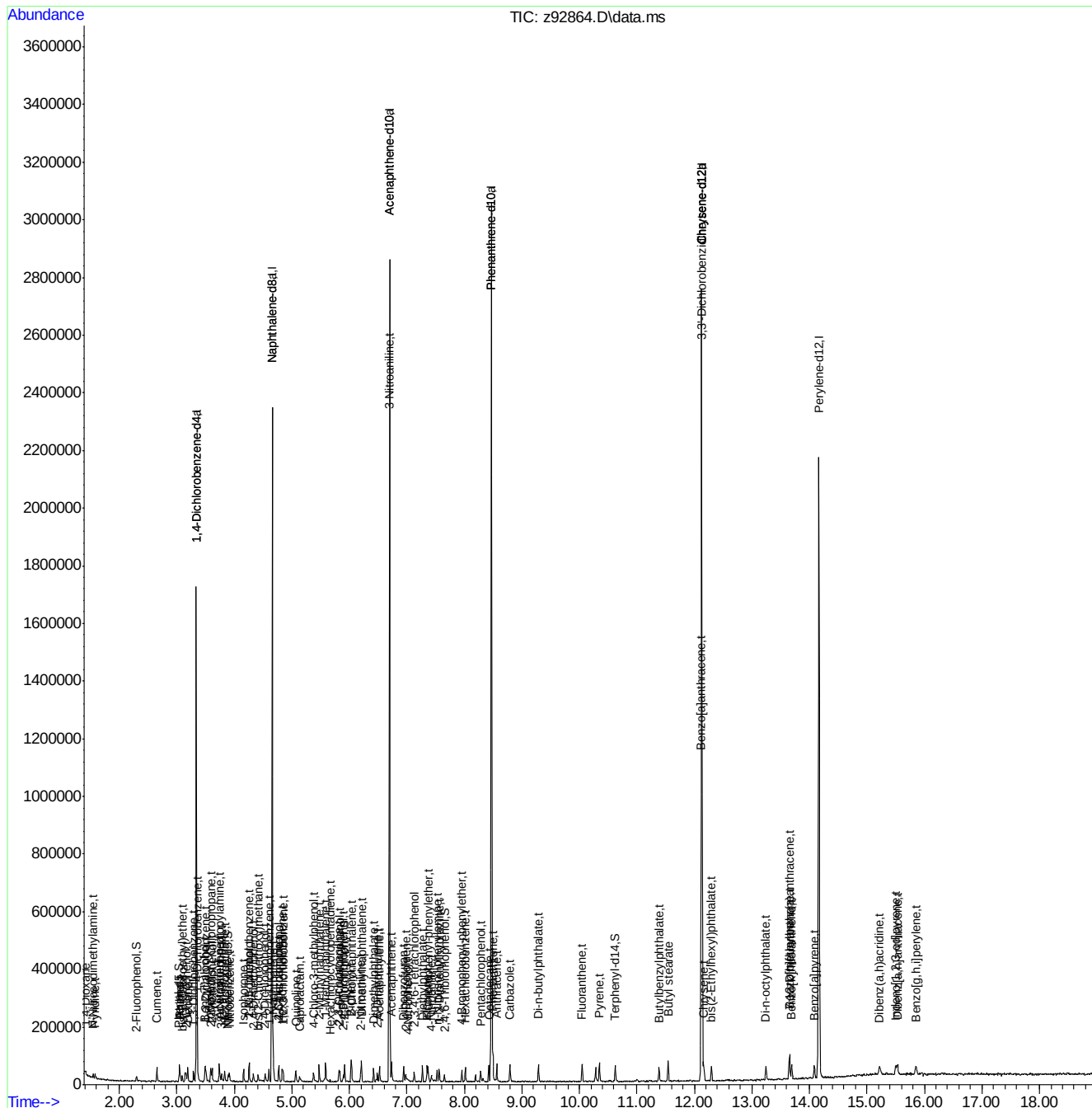
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) Di-n-butylphthalate	9.288	149	31931	0.91	ppb	98
81) Fluoranthene	10.047	202	28883	0.92	ppb	96
82) Octadecane	8.428	57	10826	0.89	ppb	89
84) Pyrene	10.351	202	31857	1.03	ppb	95
85) Butyl stearate	11.543	56	9759	0.84	ppb	98
87) Butylbenzylphthalate	11.382	149	14169	0.93	ppb	92
88) Benzo[a]anthracene	12.114	228	32412	1.10	ppb	93
89) 3,3'-Dichlorobenzidine	12.130	252	11022	0.97	ppb	82
90) Chrysene	12.162	228	26576	1.07	ppb	99
91) bis(2-Ethylhexyl)phtha...	12.291	149	18277	0.96	ppb	93
93) Di-n-octylphthalate	13.241	149	29896	0.77	ppb	94
94) Benzo[b]fluoranthene	13.653	252	26213	0.85	ppb	95
95) Benzo[k]fluoranthene	13.690	252	23373	0.84	ppb	98
96) Benzo[a]pyrene	14.086	252	22361	0.87	ppb	96
97) Indeno[1,2,3-cd]pyrene	15.501	276	21978	0.81	ppb	91
98) Dibenz(a,h)acridine	15.218	279	16553	0.80	ppb	95
99) Dibenz[a,h]anthracene	15.533	278	17589	0.82	ppb	92
100) 7,12-Dimethylbenz(a)an...	13.647	256	11059	5.67	ppb	92
101) Benzo[g,h,i]perylene	15.854	276	18416	0.88	ppb	97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4615\
Data File : z92864.D
Acq On : 24 Jun 2014 12:27 pm
Operator : ashleyv
Sample : ic4615-1
Misc : op75490,ez4615
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 27 12:46:11 2014
Quant Method : C:\msdchem\1\METHODS\MZ4615.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 25 09:02:03 2014
Response via : Initial Calibration



MZ4615.M Fri Jun 27 12:46:18 2014 RTE

Page: 4

Manual Integration Approval Summary

Sample Number: EZ4615-IC4615

Method: SW846 8270D

Lab FileID: Z92864.D

Analyst approved: 06/25/14 16:02 Ashley Vought

Injection Time: 06/24/14 12:27

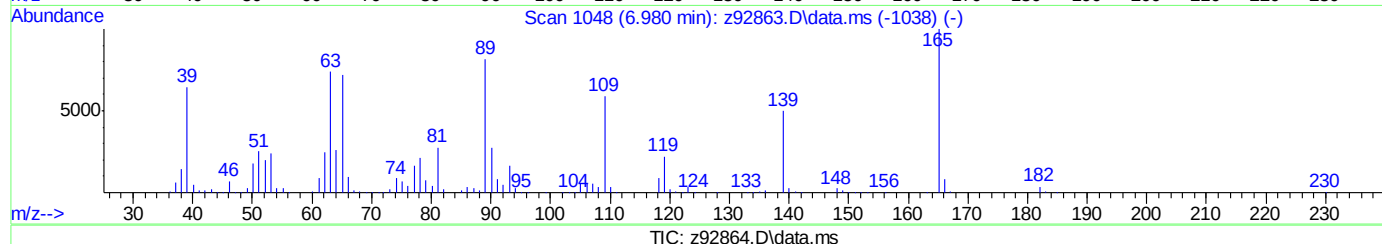
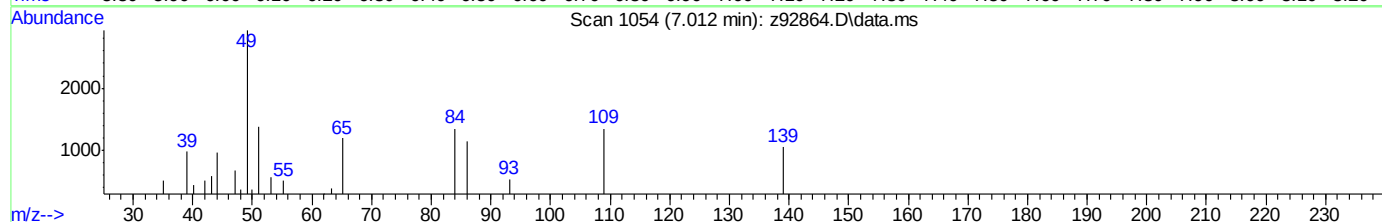
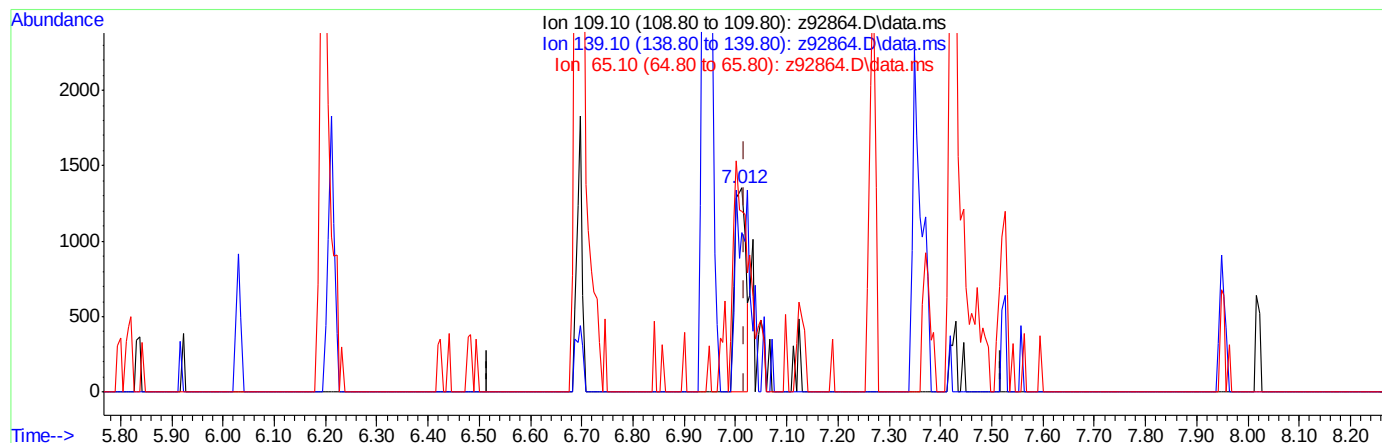
Supervisor approved: 06/27/14 13:21 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic Acid	65-85-0		4.46	Poor instrument integration
4-Nitrophenol	100-02-7		7.01	Poor instrument integration
Benzo(b)fluoranthene	205-99-2		13.65	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez4615\
Data File : z92864.D
Acq On : 24 Jun 2014 12:27 pm
Operator : ashleyv
Sample : ic4615-1
Misc : op75490,ez4615
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 24 12:47:00 2014
Quant Method : C:\MSDCHEM\1\METHODS\MZ4615.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Mon Jun 23 18:09:26 2014
Response via : Initial Calibration



(61) 4-Nitrophenol (t)

7.012min (-0.005) 0.78ppb

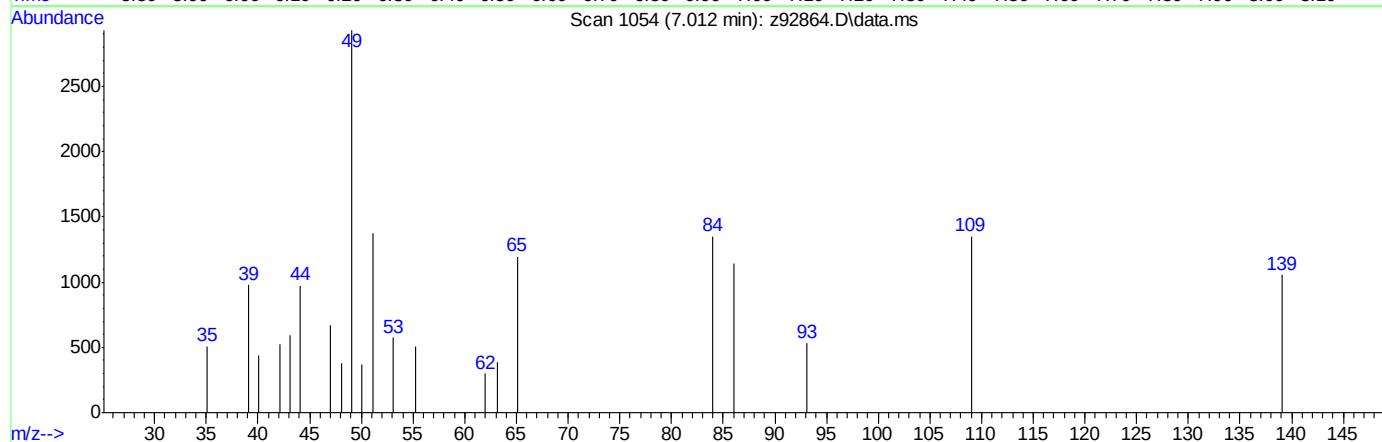
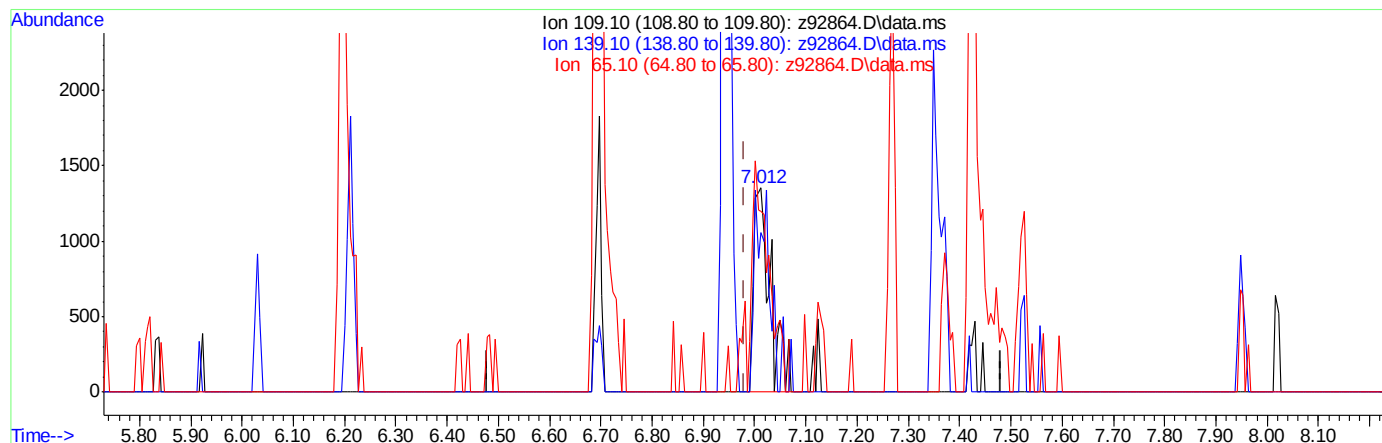
response 2016

Ion	Exp%	Act%
109.10	100	100
139.10	132.70	36.37#
65.10	118.70	60.09#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez4615\
Data File : z92864.D
Acq On : 24 Jun 2014 12:27 pm
Operator : ashleyv
Sample : ic4615-1
Misc : op75490,ez4615
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 25 15:16:37 2014
Quant Method : C:\msdchem\1\METHODS\MZ4615.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 25 09:02:03 2014
Response via : Initial Calibration



(61) 4-Nitrophenol (t)

7.012min (+0.032) 0.92ppb m

response 3051

Ion	Exp%	Act%
109.10	100	100
139.10	95.30	77.96
65.10	122.50	88.61#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4615\
 Data File : z92865.D
 Acq On : 24 Jun 2014 12:53 pm
 Operator : ashleyv
 Sample : ic4615-2
 Misc : op75490,ez4615
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 25 15:19:19 2014
 Quant Method : C:\msdchem\1\METHODS\MZ4615.M
 Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 QLast Update : Wed Jun 25 15:17:29 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.337	152	167386	40.00	ppb	0.00
24) Naphthalene-d8	4.657	136	706907	40.00	ppb	0.00
47) Acenaphthene-d10	6.697	164	471789	40.00	ppb	0.00
69) Phenanthrene-d10	8.471	188	863203	40.00	ppb	0.00
83) Chrysene-d12	12.125	240	915701	40.00	ppb	0.00
92) Perylene-d12	14.166	264	790805	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	3.337	152	167386	40.00	ppb	0.00
104) Phenanthrene-d10a	8.471	188	863203	40.00	ppb	0.00
107) Chrysene-d12a	12.125	240	915701	40.00	ppb	0.00
110) Acenaphthene-d10a	6.697	164	471789	40.00	ppb	0.00
112) Naphthalene-d8a	4.657	136	706907	40.00	ppb	0.00
114) Chrysene-d12b	12.125	240	915701	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	2.295	112	7520	1.77	ppb	0.00
Spiked Amount 50.000			Recovery	=	3.54%	
8) Phenol-d5	3.038	99	10908	1.81	ppb	0.00
Spiked Amount 50.000			Recovery	=	3.62%	
25) Nitrobenzene-d5	3.893	82	12730	1.97	ppb	0.00
Spiked Amount 50.000			Recovery	=	3.94%	
51) 2-Fluorobiphenyl	5.917	172	27193	1.96	ppb	0.00
Spiked Amount 50.000			Recovery	=	3.92%	
73) 2,4,6-Tribromophenol	7.654	330	3957	1.64	ppb	0.00
Spiked Amount 50.000			Recovery	=	3.28%	
86) Terphenyl-d14	10.624	244	34823	2.00	ppb	0.00
Spiked Amount 50.000			Recovery	=	4.00%	
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						
2) 1,4-Dioxane	1.408	88	948m	0.87	ppb	
3) Pyridine	1.574	79	6855	1.97	ppb	89
4) N-Nitrosodimethylamine	1.542	74	3938	1.96	ppb	90
6) Indene	3.588	116	19302	2.02	ppb	84
7) Cumene	2.653	105	24704	1.88	ppb	98
9) Phenol	3.049	94	12710	1.82	ppb	73
10) Aniline	3.049	93	14664	1.98	ppb	83
11) bis(2-Chloroethyl)ether	3.097	93	9217	2.03	ppb	94
12) 2-Chlorophenol	3.161	128	10772	1.91	ppb	94
13) Decane	3.187	43	12355	1.96	ppb	96
14) 1,3-Dichlorobenzene	3.289	146	12462	1.93	ppb	97
15) 1,4-Dichlorobenzene	3.353	146	12728	1.90	ppb	89
16) Benzyl alcohol	3.487	108	6885	1.83	ppb	92
17) 1,2-Dichlorobenzene	3.503	146	12457	1.97	ppb	92
18) Acetophenone	3.738	105	16441	1.95	ppb	97
19) 2-Methylphenol	3.615	108	8866	1.78	ppb	93
20) 2,2'-oxybis(1-Chloropr...	3.609	121	3624	1.96	ppb #	87

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4615\
 Data File : z92865.D
 Acq On : 24 Jun 2014 12:53 pm
 Operator : ashleyv
 Sample : ic4615-2
 Misc : op75490,ez4615
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 25 15:19:19 2014
 Quant Method : C:\msdchem\1\METHODS\MZ4615.M
 Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 QLast Update : Wed Jun 25 15:17:29 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
21) 3&4-Methylphenol	3.775	108	9346	1.77	ppb	88
22) n-Nitroso-di-n-propyla...	3.738	70	8221	1.93	ppb	78
23) Hexachloroethane	3.834	201	4280	1.78	ppb	75
26) Nitrobenzene	3.914	77	13442	1.99	ppb	96
27) Quinoline	5.063	129	23927	1.92	ppb	97
28) Isophorone	4.160	82	21604	1.93	ppb	95
29) 2-Nitrophenol	4.251	139	6002	1.79	ppb	82
30) 2,4-Dimethylphenol	4.331	107	10600	1.80	ppb	97
31) Benzoic Acid	4.448	105	8445m	1.80	ppb	
32) bis(2-Chloroethoxy)met...	4.411	93	12329	2.10	ppb	95
33) 2,4-Dichlorophenol	4.534	162	9593	1.90	ppb	87
34) 2,6-Dichlorophenol	4.774	162	8965	1.75	ppb	96
35) 1,3,5-Trichlorobenzene	4.256	180	11782	1.90	ppb	97
36) 1,2,4-Trichlorobenzene	4.598	180	11723	2.00	ppb	91
37) 1,2,3-Trichlorobenzene	4.849	180	10991	1.87	ppb	93
38) Naphthalene	4.678	128	35562	1.95	ppb	98
39) 4-Chloroaniline	4.769	127	15411	2.00	ppb	86
40) 2,3-Dichloroaniline	5.821	161	13029	1.93	ppb	88
41) Caprolactam	5.127	55	6647	2.13	ppb	93
42) Hexachlorobutadiene	4.833	225	7477	1.99	ppb	86
43) 4-Chloro-3-methylphenol	5.372	107	11000	1.92	ppb	86
44) 2-Methylnaphthalene	5.474	141	21806	1.99	ppb	98
45) 1-Methylnaphthalene	5.586	141	23285	2.10	ppb	96
46) Dimethylnaphthalene	6.211	156	23539	2.01	ppb	95
48) Hexachlorocyclopentadiene	5.666	237	2903	8.39	ppb	86
49) 2,4,6-Trichlorophenol	5.832	196	7662	1.95	ppb	88
50) 2,4,5-Trichlorophenol	5.896	196	8431	1.95	ppb	86
52) 2-Chloronaphthalene	6.040	162	24379	1.91	ppb	98
53) Biphenyl	6.030	154	30395	1.80	ppb	98
54) 2-Nitroaniline	6.195	65	9152	2.02	ppb	86
55) Dimethylphthalate	6.420	163	29138	1.98	ppb	95
56) Acenaphthylene	6.526	152	41303	2.00	ppb	97
57) 2,6-Dinitrotoluene	6.489	165	5608	1.78	ppb	90
58) 3-Nitroaniline	6.692	138	6916	1.82	ppb	# 18
59) Acenaphthene	6.735	153	25361	1.99	ppb	95
60) 2,4-Dinitrophenol	6.858	184	1011	7.59	ppb	# 60
61) 4-Nitrophenol	6.996	109	3956	1.48	ppb	# 67
62) Dibenzofuran	6.943	168	35034	1.94	ppb	97
63) 2,4-Dinitrotoluene	6.975	165	8196	1.83	ppb	80
64) 2,3,4,6-Tetrachlorophenol	7.125	232	6873	1.88	ppb	81
65) Diethylphthalate	7.269	149	32265	2.02	ppb	94
66) Fluorene	7.354	166	28340	1.91	ppb	96
67) 4-Chlorophenyl-phenyle...	7.370	204	11768	1.75	ppb	84
68) 4-Nitroaniline	7.418	138	6740	1.83	ppb	80
70) 4,6-Dinitro-2-methylph...	7.472	198	2024	0.71	ppb	87
71) n-Nitrosodiphenylamine	7.525	169	19763	1.90	ppb	97
72) 1,2-Diphenylhydrazine	7.563	77	30810	1.87	ppb	94
74) 4-Bromophenyl-phenylether	7.953	248	7847	1.78	ppb	89
75) Hexachlorobenzene	8.017	284	11236	2.04	ppb	79
76) Pentachlorophenol	8.284	266	7633	7.86	ppb	80

9.6.124

9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4615\
 Data File : z92865.D
 Acq On : 24 Jun 2014 12:53 pm
 Operator : ashleyv
 Sample : ic4615-2
 Misc : op75490,ez4615
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 25 15:19:19 2014
 Quant Method : C:\msdchem\1\METHODS\MZ4615.M
 Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 QLast Update : Wed Jun 25 15:17:29 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
77) Phenanthrene	8.498	178	45079	1.91	ppb	99
78) Anthracene	8.562	178	44386	1.89	ppb	96
79) Carbazole	8.791	167	41848	1.91	ppb	96
80) Di-n-butylphthalate	9.288	149	52274	1.81	ppb	98
81) Fluoranthene	10.042	202	48809	1.90	ppb	96
82) Octadecane	8.428	57	18140	1.81	ppb	90
84) Pyrene	10.351	202	51974	2.01	ppb	97
85) Butyl stearate	11.543	56	20200	2.08	ppb	87
87) Butylbenzylphthalate	11.382	149	24167	1.89	ppb	98
88) Benzo[a]anthracene	12.109	228	50459	2.03	ppb	98
89) 3,3'-Dichlorobenzidine	12.125	252	18583	1.94	ppb	81
90) Chrysene	12.162	228	43419	2.09	ppb	97
91) bis(2-Ethylhexyl)phtha...	12.296	149	31227	1.96	ppb	91
93) Di-n-octylphthalate	13.242	149	53512	1.68	ppb	96
94) Benzo[b]fluoranthene	13.653	252	45890	1.80	ppb	97
95) Benzo[k]fluoranthene	13.690	252	42594	1.86	ppb	96
96) Benzo[a]pyrene	14.080	252	39200	1.84	ppb	96
97) Indeno[1,2,3-cd]pyrene	15.501	276	40106	1.79	ppb	92
98) Dibenz(a,h)acridine	15.218	279	29455	1.72	ppb	88
99) Dibenz[a,h]anthracene	15.533	278	28292	1.59	ppb	93
100) 7,12-Dimethylbenz(a)an...	13.648	256	18274	6.23	ppb	93
101) Benzo[g,h,i]perylene	15.849	276	33180	1.92	ppb	95

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

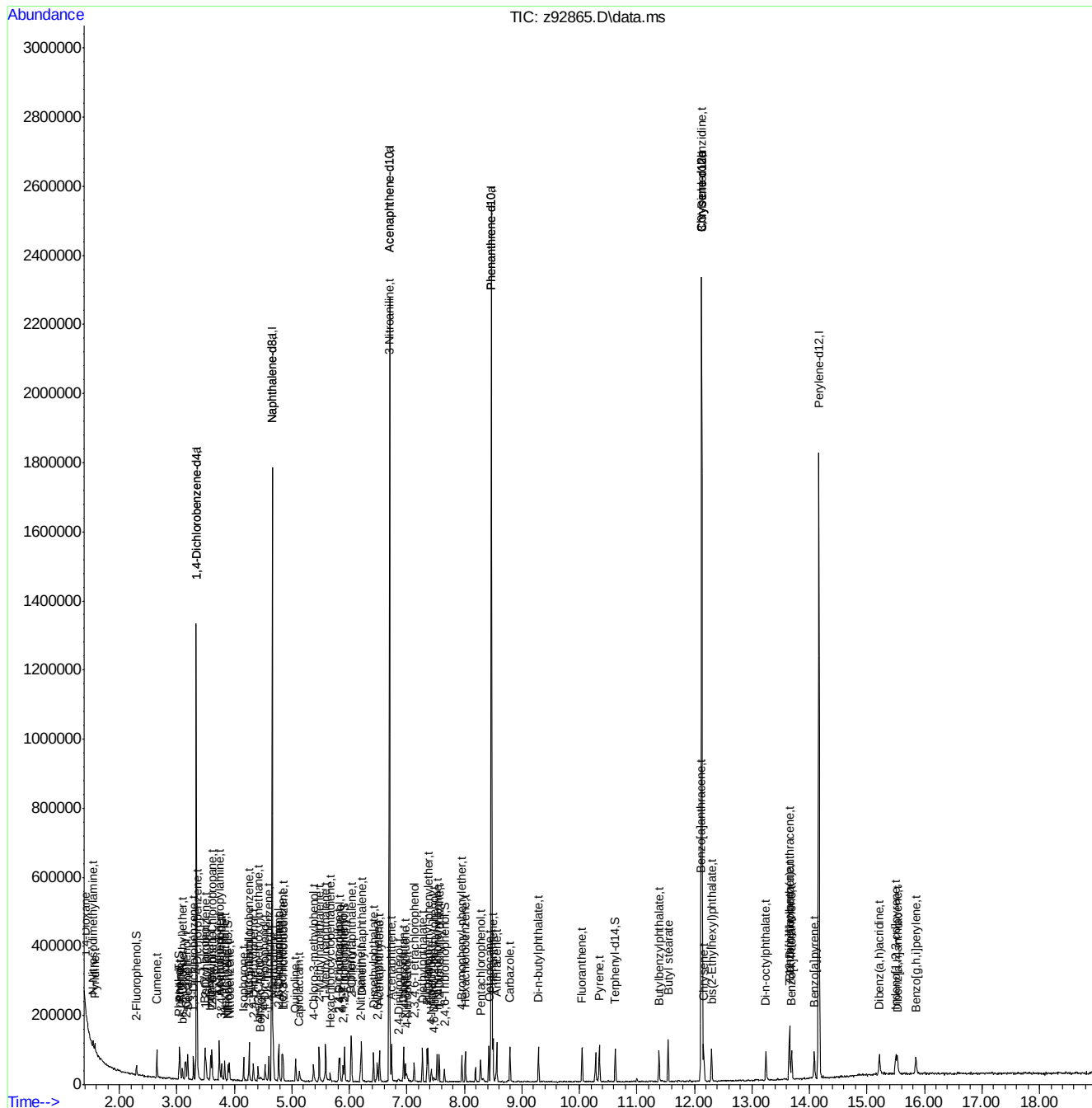
9.6.124

9

Quantitation Report (QT Reviewed)

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Data Path   : C:\msdchem\1\DATA\ez4615\
Data File  : z92865.D
Acq On     : 24 Jun 2014   12:53 pm
Operator   : ashleyv
Sample     : ic4615-2
Misc       : op75490,ez4615
ALS Vial   : 7      Sample Multiplier: 1
```

Quant Time: Jun 25 15:19:19 2014
Quant Method : C:\msdchem\1\METHODS\MZ4615.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 25 15:17:29 2014
Response via : Initial Calibration



MZ4615.M Wed Jun 25 15:19:24 2014 RTE

Page: 4

9.6.124

Manual Integration Approval Summary

Sample Number: EZ4615-IC4615

Method: SW846 8270D

Lab FileID: Z92865.D

Analyst approved: 06/25/14 16:02 Ashley Vought

Injection Time: 06/24/14 12:53

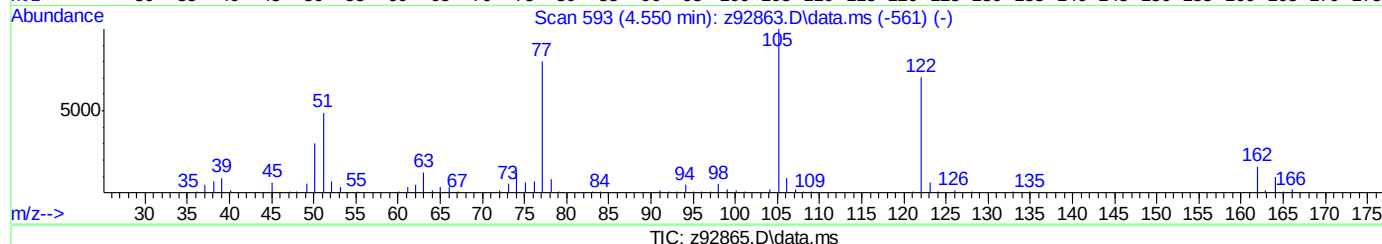
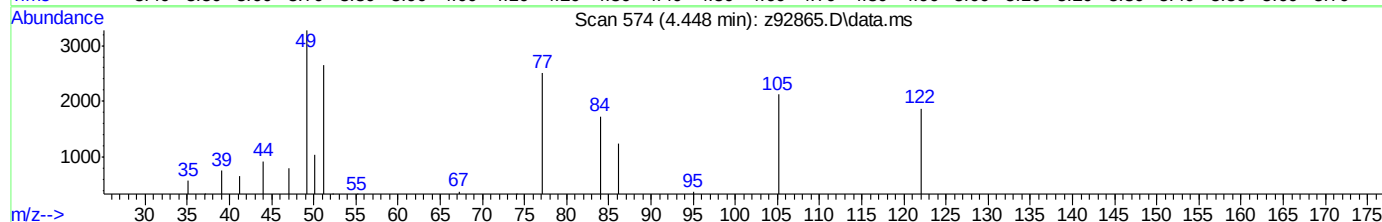
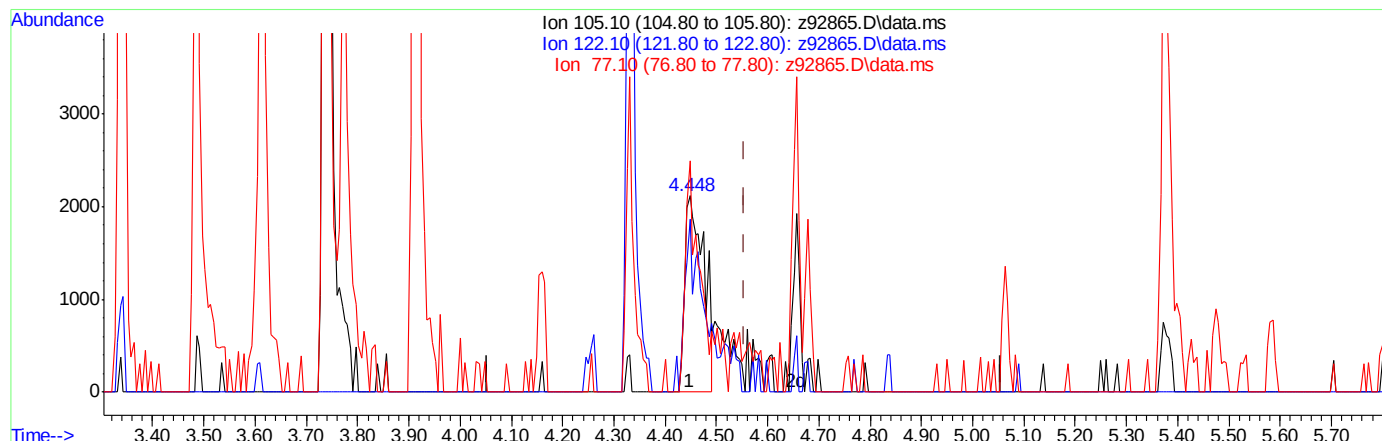
Supervisor approved: 06/27/14 13:21 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
1,4-Dioxane	123-91-1		1.41	Poor instrument integration
Benzoic Acid	65-85-0		4.45	Poor instrument integration
Benzo(b)fluoranthene	205-99-2		13.65	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez4615\
Data File : z92865.D
Acq On : 24 Jun 2014 12:53 pm
Operator : ashleyv
Sample : ic4615-2
Misc : op75490,ez4615
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 24 13:13:02 2014
Quant Method : C:\MSDCHEM\1\METHODS\MZ4615.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Tue Jun 24 12:52:36 2014
Response via : Initial Calibration



(31) Benzoic Acid

4.448min (-0.107) 1.48ppb

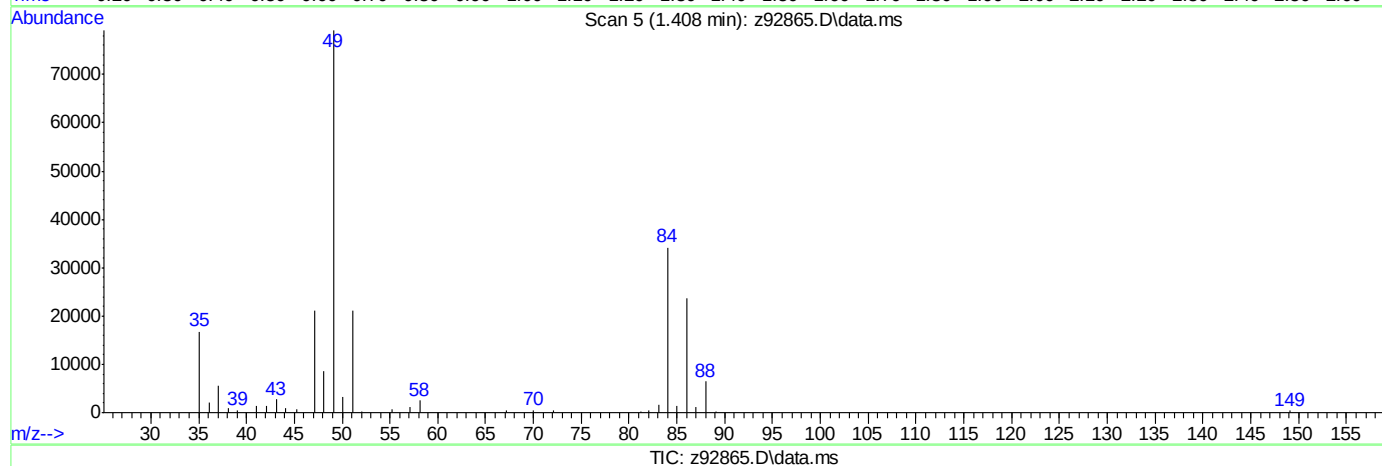
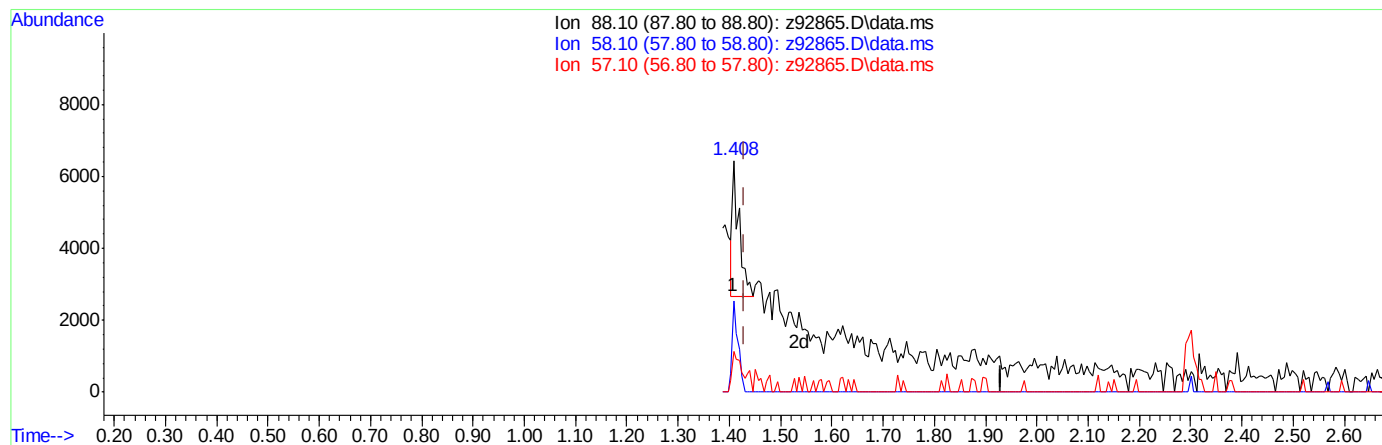
response 5456

Ion	Exp%	Act%
105.10	100	100
122.10	69.00	34.26#
77.10	35.20	83.21#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez4615\
Data File : z92865.D
Acq On : 24 Jun 2014 12:53 pm
Operator : ashleyv
Sample : ic4615-2
Misc : op75490,ez4615
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 24 13:15:01 2014
Quant Method : C:\MSDCHEM\1\METHODS\MZ4615.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Tue Jun 24 12:52:36 2014
Response via : Initial Calibration



(2) 1,4-Dioxane

1.408min (-0.021) 3.15ppb

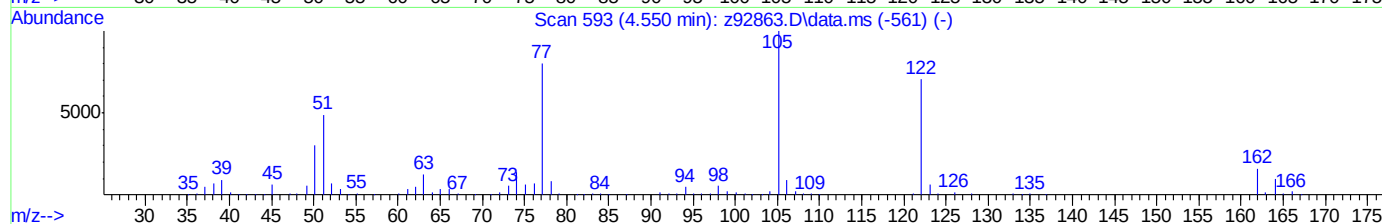
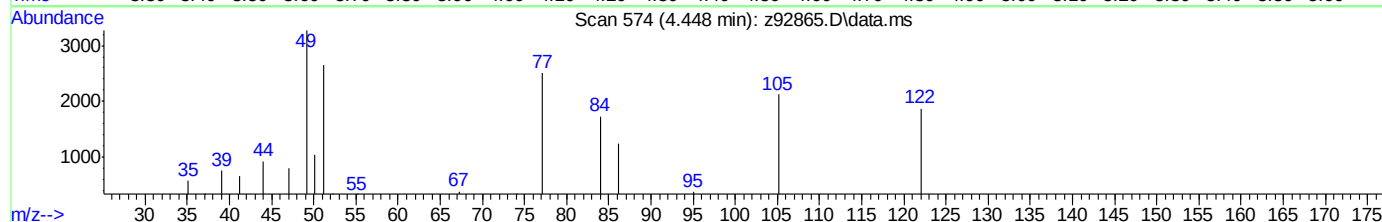
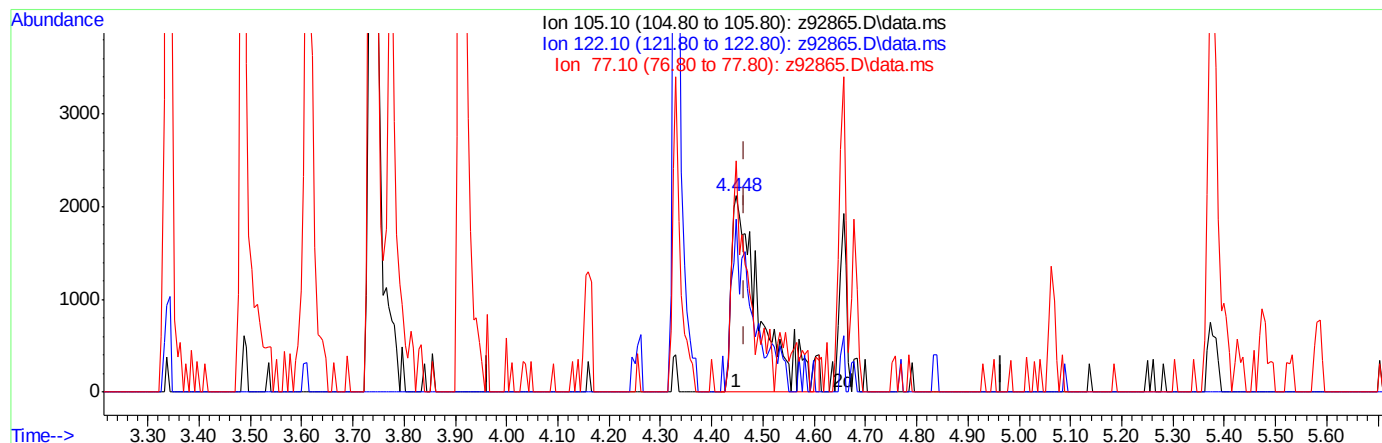
response 3333

Ion	Exp%	Act%
88.10	100	100
58.10	78.80	61.00
57.10	34.50	39.84
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez4615\
Data File : z92865.D
Acq On : 24 Jun 2014 12:53 pm
Operator : ashleyv
Sample : ic4615-2
Misc : op75490,ez4615
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 25 15:18:20 2014
Quant Method : C:\msdchem\1\METHODS\MZ4615.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 25 15:17:29 2014
Response via : Initial Calibration



(31) Benzoic Acid

4.448min (-0.016) 1.80ppb m

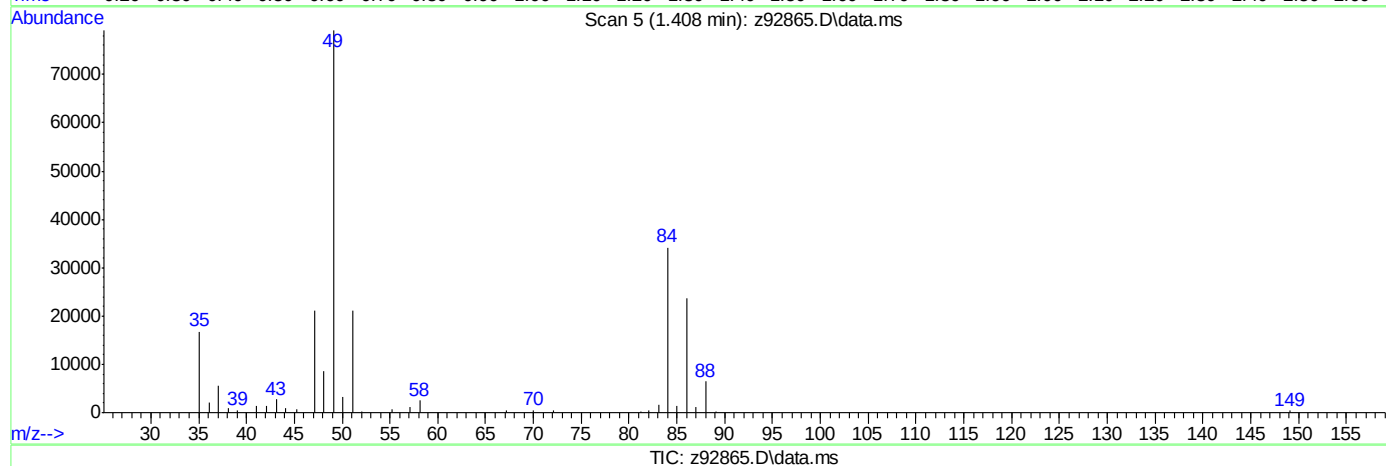
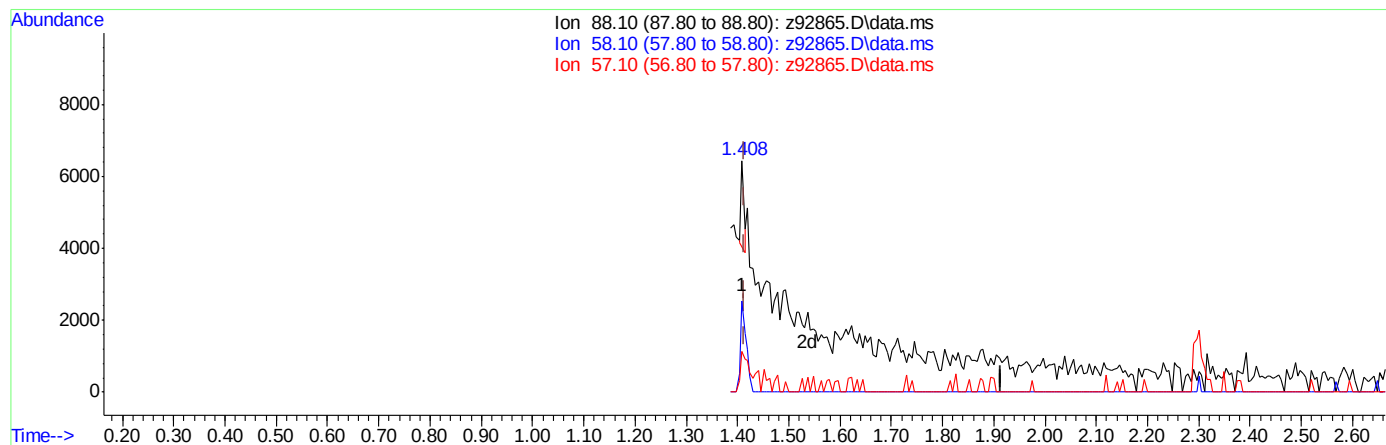
response 8445

Ion	Exp%	Act%
105.10	100	100
122.10	69.00	22.13#
77.10	35.20	53.76
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez4615\
Data File : z92865.D
Acq On : 24 Jun 2014 12:53 pm
Operator : ashleyv
Sample : ic4615-2
Misc : op75490,ez4615
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 25 15:19:19 2014
Quant Method : C:\msdchem\1\METHODS\MZ4615.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 25 15:17:29 2014
Response via : Initial Calibration



(2) 1,4-Dioxane

1.408min (-0.005) 0.87ppb m

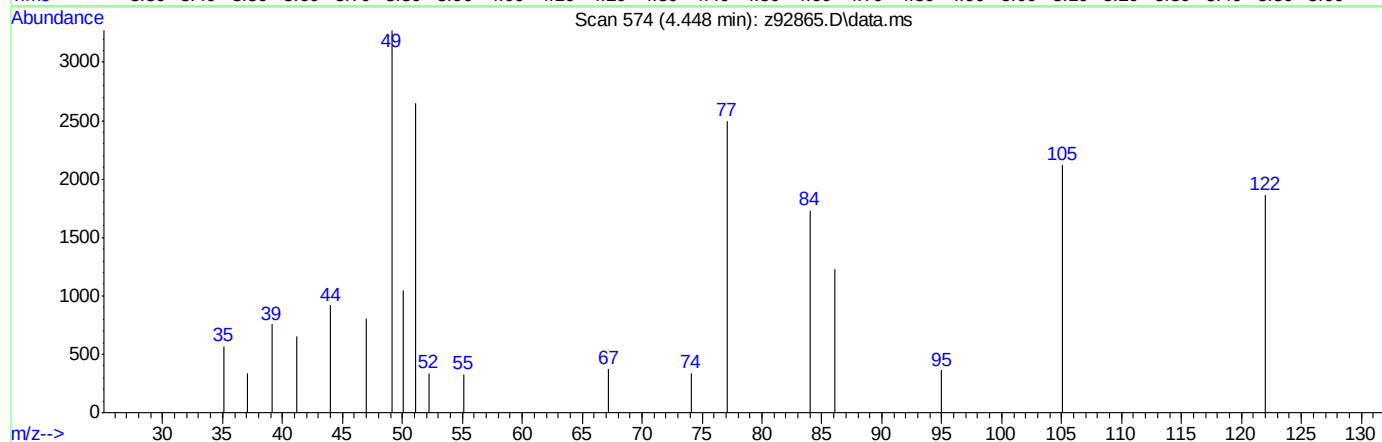
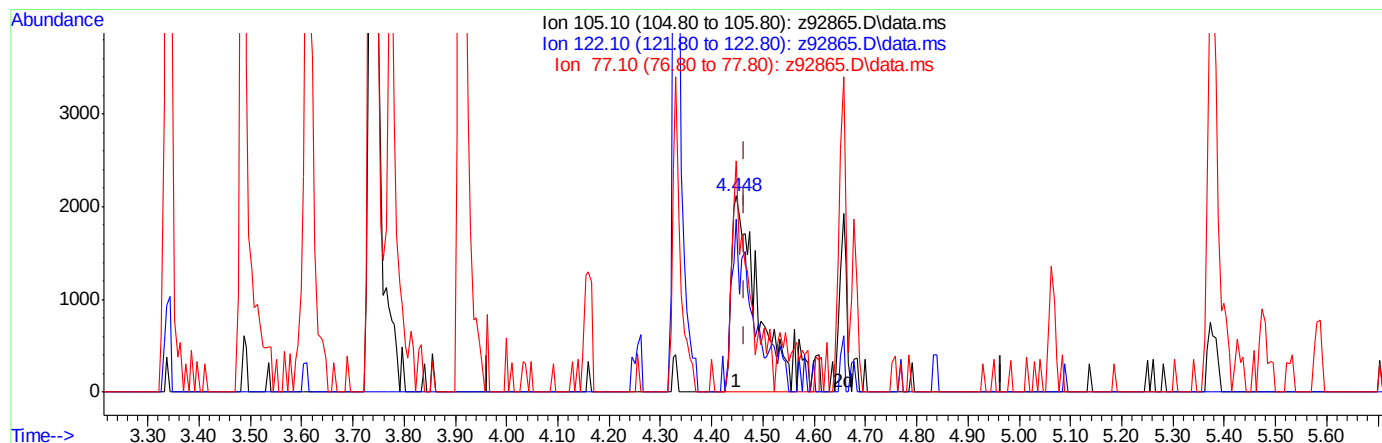
response 948

Ion	Exp%	Act%
88.10	100	100
58.10	78.80	214.45#
57.10	34.50	140.08#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez4615\
Data File : z92865.D
Acq On : 24 Jun 2014 12:53 pm
Operator : ashleyv
Sample : ic4615-2
Misc : op75490,ez4615
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 25 15:19:19 2014
Quant Method : C:\msdchem\1\METHODS\MZ4615.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 25 15:17:29 2014
Response via : Initial Calibration



(31) Benzoic Acid

4.448min (-0.016) 1.80ppb m

response 8445

Ion	Exp%	Act%
105.10	100	100
122.10	69.00	22.13#
77.10	35.20	53.76
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4615\
 Data File : z92866.D
 Acq On : 24 Jun 2014 1:18 pm
 Operator : ashleyv
 Sample : ic4615-5
 Misc : op75490,ez4615
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 24 16:28:05 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MZ4615.M
 Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 QLast Update : Tue Jun 24 16:26:57 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.337	152	194550	40.00	ppb	0.00
24) Naphthalene-d8	4.657	136	841370	40.00	ppb	0.00
47) Acenaphthene-d10	6.697	164	545729	40.00	ppb	0.00
69) Phenanthrene-d10	8.471	188	990776	40.00	ppb	0.00
83) Chrysene-d12	12.125	240	1034211	40.00	ppb	0.00
92) Perylene-d12	14.166	264	894726	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	3.337	152	194550	40.00	ppb	0.00
104) Phenanthrene-d10a	8.471	188	990776	40.00	ppb	0.00
107) Chrysene-d12a	12.125	240	1034211	40.00	ppb	0.00
110) Acenaphthene-d10a	6.697	164	545729	40.00	ppb	0.00
112) Naphthalene-d8a	4.657	136	841370	40.00	ppb	0.00
114) Chrysene-d12b	12.125	240	1034211	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	2.295	112	23920	4.83	ppb	0.00
Spiked Amount 50.000			Recovery	=	9.66%	
8) Phenol-d5	3.033	99	33559	4.79	ppb	0.00
Spiked Amount 50.000			Recovery	=	9.58%	
25) Nitrobenzene-d5	3.893	82	37136	4.84	ppb	0.00
Spiked Amount 50.000			Recovery	=	9.68%	
51) 2-Fluorobiphenyl	5.917	172	78427	4.89	ppb	0.00
Spiked Amount 50.000			Recovery	=	9.78%	
73) 2,4,6-Tribromophenol	7.648	330	11946	4.32	ppb	0.00
Spiked Amount 50.000			Recovery	=	8.64%	
86) Terphenyl-d14	10.624	244	94745	4.81	ppb	0.00
Spiked Amount 50.000			Recovery	=	9.62%	
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	1.409	88	6377m	5.00	ppb	
3) Pyridine	1.569	79	20076	4.97	ppb	98
4) N-Nitrosodimethylamine	1.542	74	11686	5.02	ppb	79
6) Indene	3.588	116	55467	4.98	ppb	99
7) Cumene	2.653	105	74938	4.90	ppb	96
9) Phenol	3.043	94	37618	4.63	ppb	65
10) Aniline	3.049	93	43420	5.05	ppb	84
11) bis(2-Chloroethyl)ether	3.097	93	28022	5.30	ppb	97
12) 2-Chlorophenol	3.155	128	32741	4.99	ppb	99
13) Decane	3.187	43	37531	5.12	ppb	94
14) 1,3-Dichlorobenzene	3.289	146	37308	4.98	ppb	95
15) 1,4-Dichlorobenzene	3.353	146	37882	4.87	ppb	96
16) Benzyl alcohol	3.481	108	21816	4.99	ppb	93
17) 1,2-Dichlorobenzene	3.503	146	35902	4.88	ppb	98
18) Acetophenone	3.738	105	48314	4.93	ppb	99
19) 2-Methylphenol	3.610	108	29907	5.18	ppb	99
20) 2,2'-oxybis(1-Chloropr...	3.604	121	10596	4.92	ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4615\
 Data File : z92866.D
 Acq On : 24 Jun 2014 1:18 pm
 Operator : ashleyv
 Sample : ic4615-5
 Misc : op75490,ez4615
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 24 16:28:05 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MZ4615.M
 Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 QLast Update : Tue Jun 24 16:26:57 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
21) 3&4-Methylphenol	3.770	108	31565	5.14	ppb	89
22) n-Nitroso-di-n-propyla...	3.738	70	25110	5.07	ppb	93
23) Hexachloroethane	3.834	201	13927	4.99	ppb	86
26) Nitrobenzene	3.914	77	37091	4.61	ppb	96
27) Quinoline	5.063	129	73576	4.96	ppb	99
28) Isophorone	4.160	82	66823	5.02	ppb	99
29) 2-Nitrophenol	4.251	139	18634	4.66	ppb	88
30) 2,4-Dimethylphenol	4.325	107	32628	4.65	ppb	93
31) Benzoic Acid	4.443	105	25718m	4.54	ppb	
32) bis(2-Chloroethoxy)met...	4.411	93	34063	4.86	ppb	97
33) 2,4-Dichlorophenol	4.528	162	27923	4.64	ppb	95
34) 2,6-Dichlorophenol	4.769	162	29859	4.90	ppb	99
35) 1,3,5-Trichlorobenzene	4.256	180	35063	4.74	ppb	97
36) 1,2,4-Trichlorobenzene	4.598	180	33855	4.86	ppb	97
37) 1,2,3-Trichlorobenzene	4.849	180	34478	4.93	ppb	98
38) Naphthalene	4.678	128	105615	4.87	ppb	97
39) 4-Chloroaniline	4.763	127	44701	4.88	ppb	94
40) 2,3-Dichloroaniline	5.816	161	40017	4.98	ppb	99
41) Caprolactam	5.132	55	19325	5.20	ppb	99
42) Hexachlorobutadiene	4.833	225	22265	4.99	ppb	97
43) 4-Chloro-3-methylphenol	5.372	107	34505	5.05	ppb	87
44) 2-Methylnaphthalene	5.474	141	62416	4.79	ppb	97
45) 1-Methylnaphthalene	5.586	141	61813	4.69	ppb	97
46) Dimethylnaphthalene	6.211	156	66240	4.74	ppb	94
48) Hexachlorocyclopentadiene	5.666	237	16055	11.75	ppb	95
49) 2,4,6-Trichlorophenol	5.832	196	20847	4.58	ppb	98
50) 2,4,5-Trichlorophenol	5.885	196	24893	4.97	ppb	98
52) 2-Chloronaphthalene	6.040	162	73297	4.95	ppb	99
53) Biphenyl	6.030	154	94622	4.84	ppb	99
54) 2-Nitroaniline	6.190	65	25502	4.88	ppb	93
55) Dimethylphthalate	6.420	163	87991	5.17	ppb	99
56) Acenaphthylene	6.521	152	118635	4.98	ppb	97
57) 2,6-Dinitrotoluene	6.484	165	17847	4.89	ppb	82
58) 3-Nitroaniline	6.687	138	22812	5.20	ppb	86
59) Acenaphthene	6.735	153	72821	4.94	ppb	97
60) 2,4-Dinitrophenol	6.831	184	11459m	11.53	ppb	
61) 4-Nitrophenol	6.980	109	14518	4.68	ppb	# 77
62) Dibenzofuran	6.943	168	103448	4.94	ppb	96
63) 2,4-Dinitrotoluene	6.970	165	26153	5.06	ppb	93
64) 2,3,4,6-Tetrachlorophenol	7.125	232	20178	4.76	ppb	90
65) Diethylphthalate	7.269	149	95966	5.20	ppb	96
66) Fluorene	7.349	166	82440	4.81	ppb	99
67) 4-Chlorophenyl-phenyle...	7.370	204	37838	4.87	ppb	85
68) 4-Nitroaniline	7.419	138	21723	5.09	ppb	87
70) 4,6-Dinitro-2-methylph...	7.467	198	10827	3.30	ppb	89
71) n-Nitrosodiphenylamine	7.520	169	56960	4.76	ppb	97
72) 1,2-Diphenylhydrazine	7.557	77	90086	4.76	ppb	98
74) 4-Bromophenyl-phenylether	7.953	248	23210	4.60	ppb	97
75) Hexachlorobenzene	8.017	284	29782	4.72	ppb	90
76) Pentachlorophenol	8.279	266	24954	11.96	ppb	94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4615\
 Data File : z92866.D
 Acq On : 24 Jun 2014 1:18 pm
 Operator : ashleyv
 Sample : ic4615-5
 Misc : op75490,ez4615
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 24 16:28:05 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MZ4615.M
 Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 QLast Update : Tue Jun 24 16:26:57 2014
 Response via : Initial Calibration

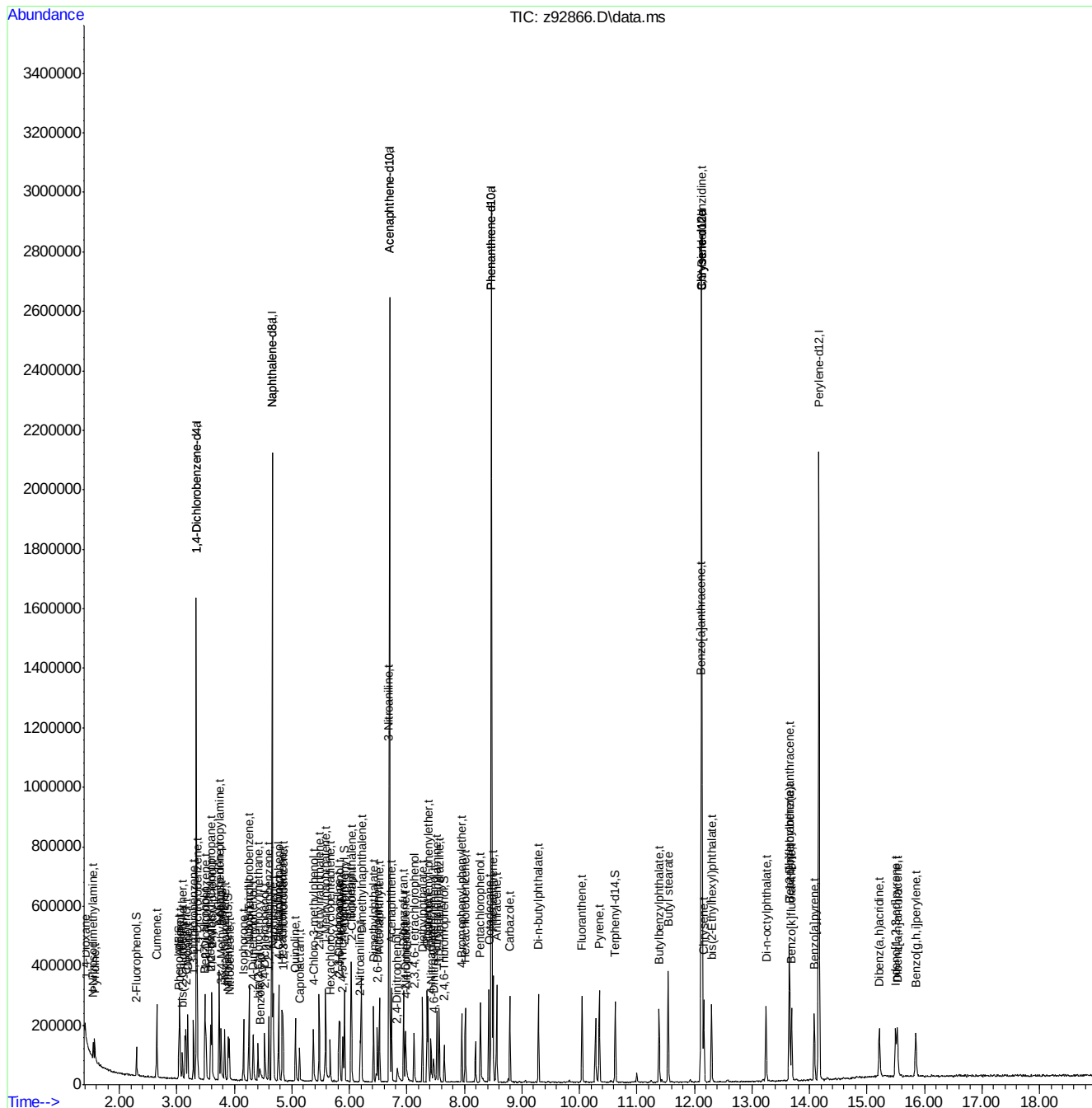
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
77) Phenanthrene	8.498	178	126798	4.68	ppb	98
78) Anthracene	8.562	178	127240	4.73	ppb	96
79) Carbazole	8.791	167	115554	4.59	ppb	97
80) Di-n-butylphthalate	9.288	149	151645	4.58	ppb	99
81) Fluoranthene	10.042	202	137807	4.66	ppb	100
82) Octadecane	8.428	57	53203	4.63	ppb	95
84) Pyrene	10.351	202	144478	4.95	ppb	100
85) Butyl stearate	11.543	56	56601	5.15	ppb	92
87) Butylbenzylphthalate	11.388	149	72958	5.05	ppb	91
88) Benzo[a]anthracene	12.114	228	137111	4.89	ppb	95
89) 3,3'-Dichlorobenzidine	12.125	252	53046	4.90	ppb	96
90) Chrysene	12.162	228	119666	5.09	ppb	97
91) bis(2-Ethylhexyl)phtha...	12.296	149	89722	5.00	ppb	98
93) Di-n-octylphthalate	13.247	149	158793	4.39	ppb	97
94) Benzo[b]fluoranthene	13.653	252	129808	4.51	ppb	97
95) Benzo[k]fluoranthene	13.690	252	122494	4.72	ppb	95
96) Benzo[a]pyrene	14.080	252	109501	4.54	ppb	97
97) Indeno[1,2,3-cd]pyrene	15.501	276	116337	4.58	ppb	94
98) Dibenz(a,h)acridine	15.218	279	86175	4.45	ppb	98
99) Dibenz[a,h]anthracene	15.528	278	93797	4.66	ppb	95
100) 7,12-Dimethylbenz(a)an...	13.648	256	53121	8.01	ppb	96
101) Benzo[g,h,i]perylene	15.849	276	94595	4.84	ppb	98

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

(QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4615\
Data File : z92866.D
Acq On : 24 Jun 2014 1:18 pm
Operator : ashleyv
Sample : ic4615-5
Misc : op75490,ez4615
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 24 16:28:05 2014
Quant Method : C:\MSDCHEM\1\METHODS\MZ4615.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Tue Jun 24 16:26:57 2014
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: EZ4615-IC4615

Method: SW846 8270D

Lab FileID: Z92866.D

Analyst approved: 06/25/14 16:02 Ashley Vought

Injection Time: 06/24/14 13:18

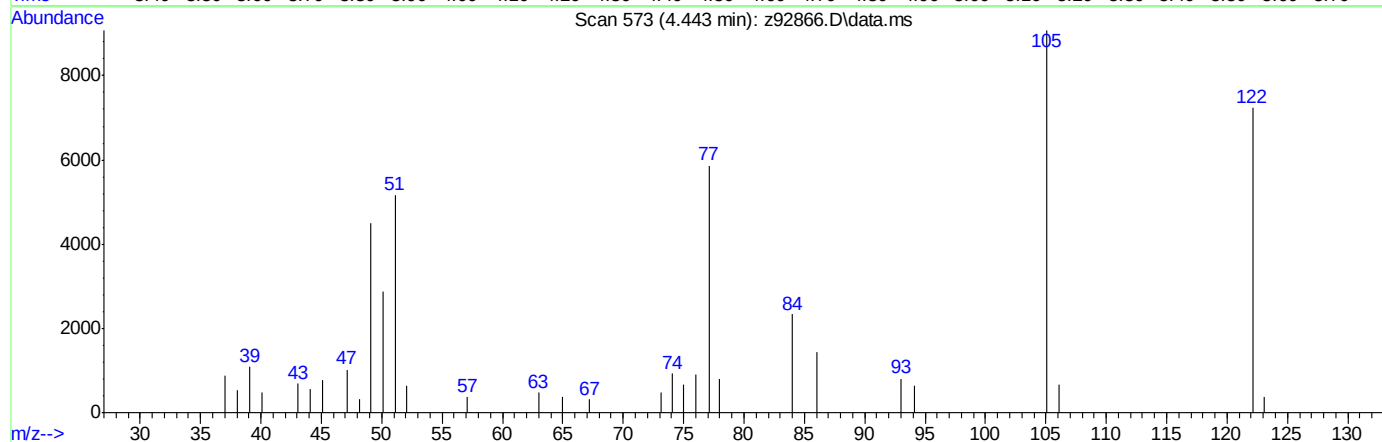
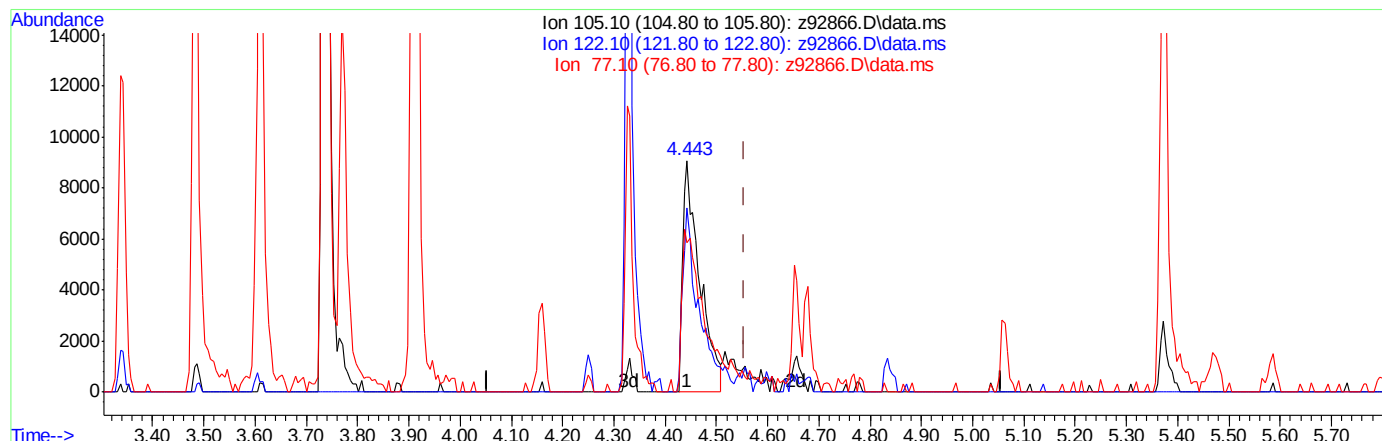
Supervisor approved: 06/27/14 13:21 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
1,4-Dioxane	123-91-1		1.41	Poor instrument integration
Benzoic Acid	65-85-0		4.44	Poor instrument integration
2,4-Dinitrophenol	51-28-5		6.83	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez4615\
Data File : z92866.D
Acq On : 24 Jun 2014 1:18 pm
Operator : ashleyv
Sample : ic4615-5
Misc : op75490,ez4615
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 24 14:46:29 2014
Quant Method : C:\MSDCHEM\1\METHODS\MZ4615.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Tue Jun 24 13:16:18 2014
Response via : Initial Calibration



(31) Benzoic Acid

4.443min (-0.112) 4.52ppb

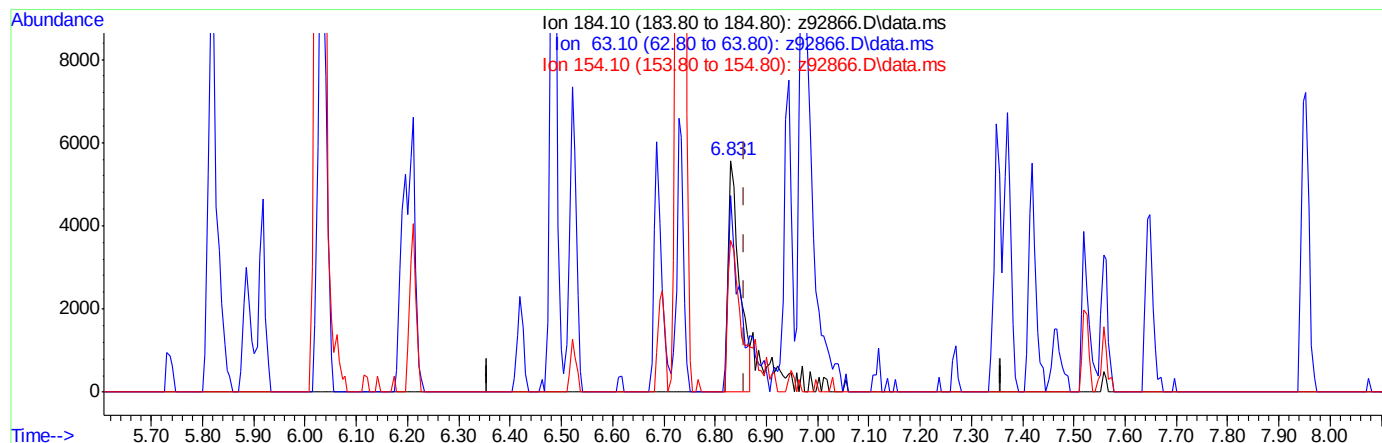
response 20581

Ion	Exp%	Act%
105.10	100	100
122.10	69.00	79.71
77.10	35.20	88.13#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez4615\
Data File : z92866.D
Acq On : 24 Jun 2014 1:18 pm
Operator : ashleyv
Sample : ic4615-5
Misc : op75490,ez4615
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 24 14:46:29 2014
Quant Method : C:\MSDCHEM\1\METHODS\MZ4615.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Tue Jun 24 13:16:18 2014
Response via : Initial Calibration



(60) 2,4-Dinitrophenol (t)

6.831min (-0.027) 3.46ppb

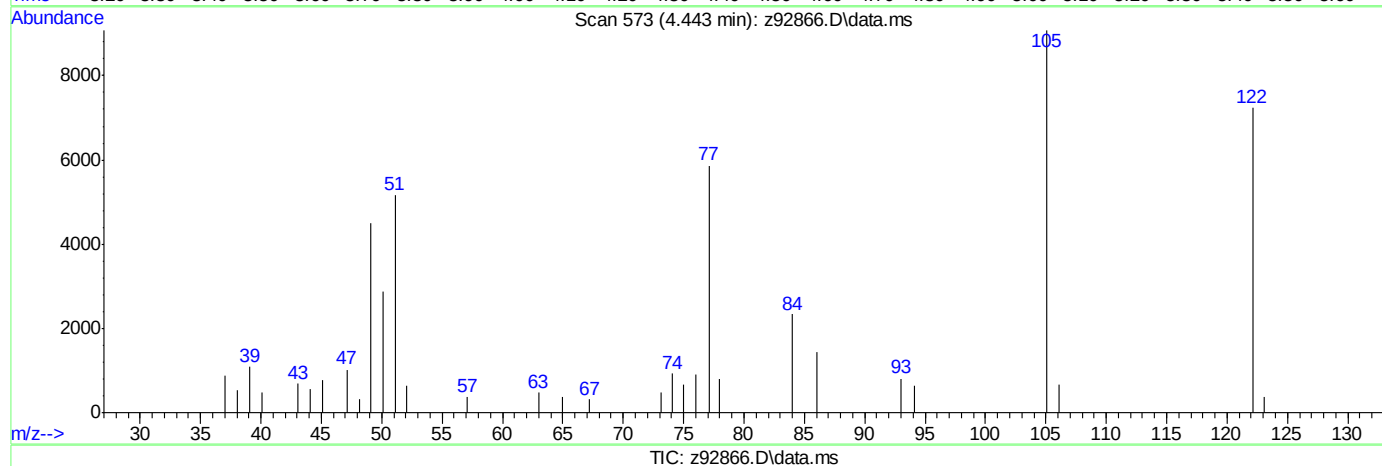
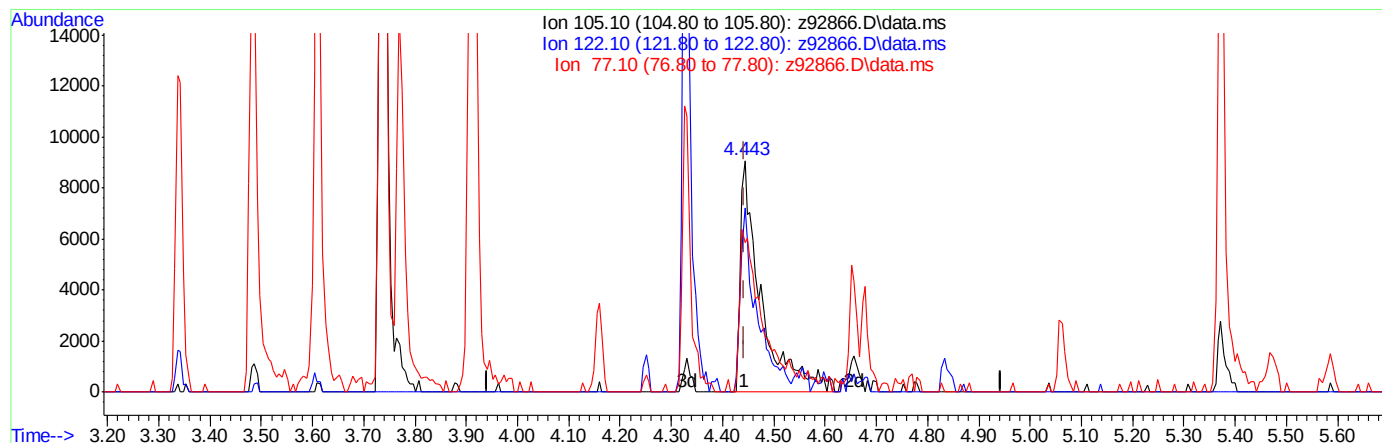
response 8423

Ion	Exp%	Act%
184.10	100	100
63.10	58.00	75.28
154.10	60.90	61.81
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez4615\
Data File : z92866.D
Acq On : 24 Jun 2014 1:18 pm
Operator : ashleyv
Sample : ic4615-5
Misc : op75490,ez4615
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 24 16:28:05 2014
Quant Method : C:\MSDCHEM\1\METHODS\MZ4615.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Tue Jun 24 16:26:57 2014
Response via : Initial Calibration



(31) Benzoic Acid

4.443min (0.000) 4.54ppb m

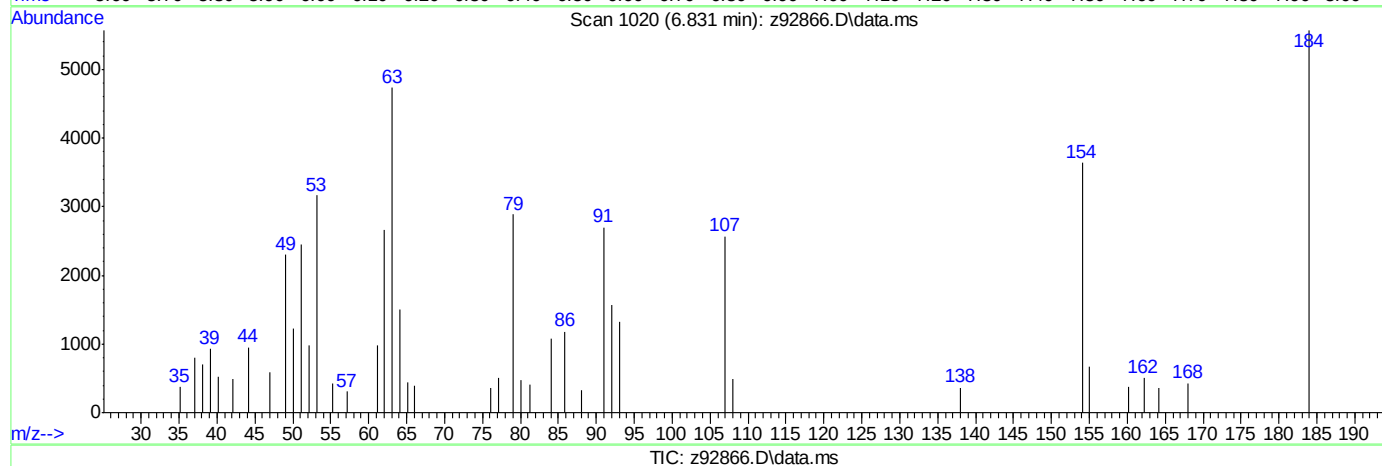
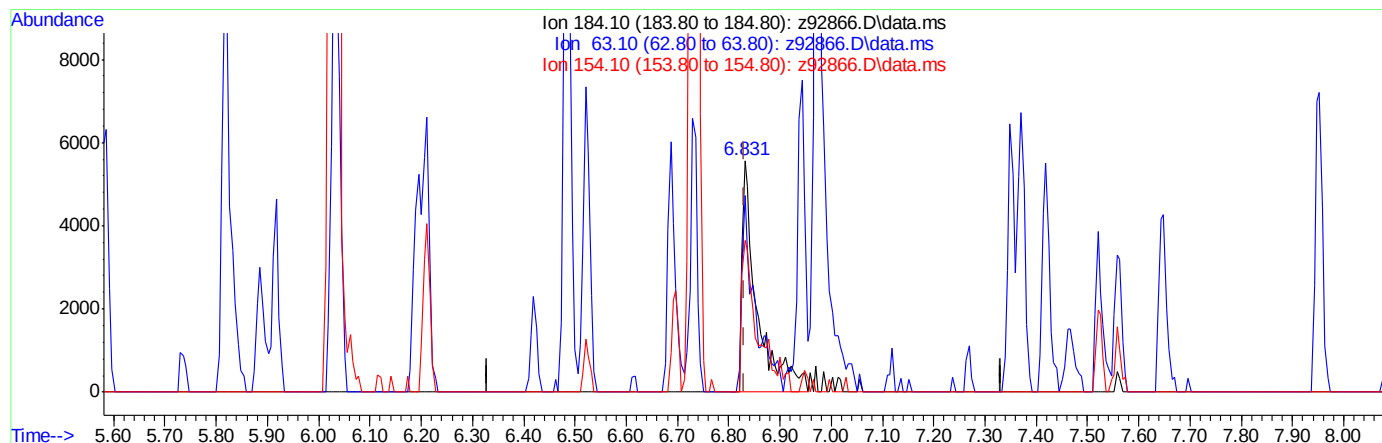
response 25718

Ion	Exp%	Act%
105.10	100	100
122.10	69.00	63.79
77.10	35.20	70.53#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez4615\
Data File : z92866.D
Acq On : 24 Jun 2014 1:18 pm
Operator : ashleyv
Sample : ic4615-5
Misc : op75490,ez4615
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 24 16:28:05 2014
Quant Method : C:\MSDCHEM\1\METHODS\MZ4615.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Tue Jun 24 16:26:57 2014
Response via : Initial Calibration



(60) 2,4-Dinitrophenol (t)

6.831min (0.000) 11.53ppb m

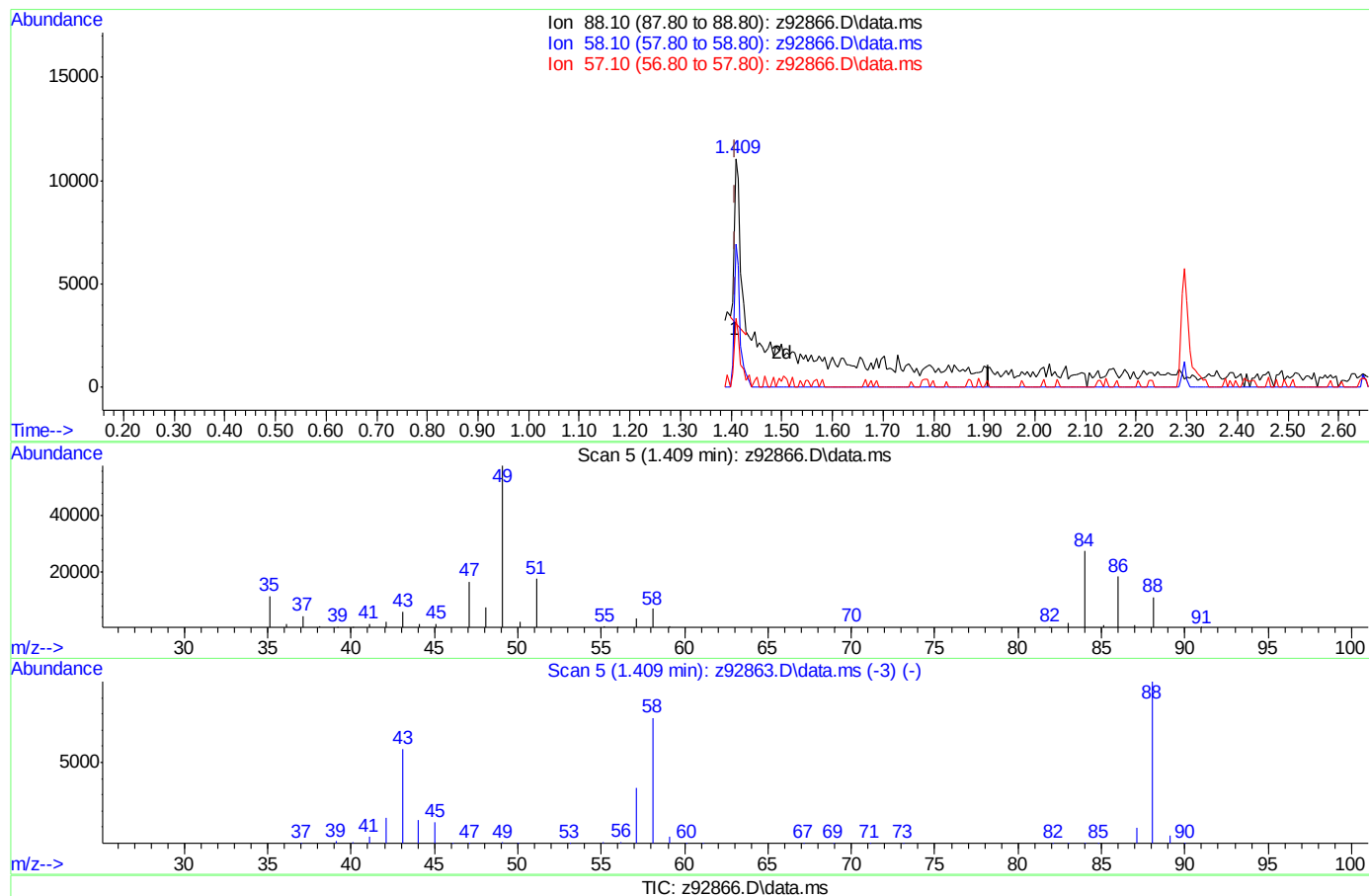
response 11459

Ion	Exp%	Act%
184.10	100	100
63.10	58.00	84.92
154.10	60.90	65.39
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez4615\
Data File : z92866.D
Acq On : 24 Jun 2014 1:18 pm
Operator : ashleyv
Sample : ic4615-5
Misc : op75490,ez4615
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 24 16:28:05 2014
Quant Method : C:\MSDCHEM\1\METHODS\MZ4615.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Tue Jun 24 16:26:57 2014
Response via : Initial Calibration



(2) 1,4-Dioxane

1.409min (0.000) 5.00ppb m

response 6377

Ion	Exp%	Act%
88.10	100	100
58.10	78.80	90.11
57.10	34.50	48.05
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4615\
 Data File : z92867.D
 Acq On : 24 Jun 2014 1:44 pm
 Operator : ashleyv
 Sample : ic4615-10
 Misc : op75490,ez4615
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 24 16:30:57 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MZ4615.M
 Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 QLast Update : Tue Jun 24 16:29:39 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.337	152	199647	40.00	ppb	0.00
24) Naphthalene-d8	4.656	136	854430	40.00	ppb	0.00
47) Acenaphthene-d10	6.697	164	552410	40.00	ppb	0.00
69) Phenanthrene-d10	8.471	188	997823	40.00	ppb	0.00
83) Chrysene-d12	12.130	240	1026666	40.00	ppb	0.00
92) Perylene-d12	14.166	264	851326	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	3.337	152	199647	40.00	ppb	0.00
104) Phenanthrene-d10a	8.471	188	997823	40.00	ppb	0.00
107) Chrysene-d12a	12.130	240	1026666	40.00	ppb	0.00
110) Acenaphthene-d10a	6.697	164	552410	40.00	ppb	0.00
112) Naphthalene-d8a	4.656	136	854430	40.00	ppb	0.00
114) Chrysene-d12b	12.130	240	1026666	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	2.295	112	49328	9.71	ppb	0.00
Spiked Amount 50.000			Recovery	=	19.42%	
8) Phenol-d5	3.032	99	68481	9.53	ppb	0.00
Spiked Amount 50.000			Recovery	=	19.06%	
25) Nitrobenzene-d5	3.893	82	74946	9.61	ppb	0.00
Spiked Amount 50.000			Recovery	=	19.22%	
51) 2-Fluorobiphenyl	5.917	172	158691	9.78	ppb	0.00
Spiked Amount 50.000			Recovery	=	19.56%	
73) 2,4,6-Tribromophenol	7.648	330	27471	9.87	ppb	0.00
Spiked Amount 50.000			Recovery	=	19.74%	
86) Terphenyl-d14	10.624	244	193208	9.89	ppb	0.00
Spiked Amount 50.000			Recovery	=	19.78%	
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	1.408	88	12654m	9.69	ppb	
3) Pyridine	1.563	79	41823	10.09	ppb	88
4) N-Nitrosodimethylamine	1.537	74	25260	10.57	ppb	98
6) Indene	3.588	116	112338	9.84	ppb	96
7) Cumene	2.653	105	151054	9.63	ppb	97
9) Phenol	3.043	94	78623	9.43	ppb	74
10) Aniline	3.048	93	87799	9.94	ppb	81
11) bis(2-Chloroethyl)ether	3.091	93	51374	9.47	ppb	91
12) 2-Chlorophenol	3.155	128	64942	9.65	ppb	96
13) Decane	3.187	43	73607	9.79	ppb	91
14) 1,3-Dichlorobenzene	3.289	146	74502	9.69	ppb	99
15) 1,4-Dichlorobenzene	3.353	146	77198	9.67	ppb	97
16) Benzyl alcohol	3.481	108	40781	9.09	ppb	90
17) 1,2-Dichlorobenzene	3.503	146	73084	9.69	ppb	97
18) Acetophenone	3.738	105	98317	9.77	ppb	93
19) 2-Methylphenol	3.609	108	57163	9.64	ppb	98
20) 2,2'-oxybis(1-Chloropr...	3.609	121	20724	9.38	ppb #	88

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4615\
 Data File : z92867.D
 Acq On : 24 Jun 2014 1:44 pm
 Operator : ashleyv
 Sample : ic4615-10
 Misc : op75490,ez4615
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 24 16:30:57 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MZ4615.M
 Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 QLast Update : Tue Jun 24 16:29:39 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
21) 3&4-Methylphenol	3.770	108	61343	9.73	ppb	93
22) n-Nitroso-di-n-propyla...	3.738	70	49914	9.82	ppb	92
23) Hexachloroethane	3.834	201	28628	10.00	ppb	87
26) Nitrobenzene	3.909	77	78169	9.56	ppb	95
27) Quinoline	5.062	129	146677	9.74	ppb	97
28) Isophorone	4.160	82	131770	9.74	ppb	95
29) 2-Nitrophenol	4.250	139	39076	9.62	ppb	85
30) 2,4-Dimethylphenol	4.325	107	69433	9.73	ppb	96
31) Benzoic Acid	4.448	105	52859m	9.21	ppb	
32) bis(2-Chloroethoxy)met...	4.411	93	68907	9.69	ppb	97
33) 2,4-Dichlorophenol	4.528	162	60072	9.84	ppb	97
34) 2,6-Dichlorophenol	4.769	162	58457	9.45	ppb	97
35) 1,3,5-Trichlorobenzene	4.256	180	71277	9.49	ppb	99
36) 1,2,4-Trichlorobenzene	4.598	180	66888	9.45	ppb	95
37) 1,2,3-Trichlorobenzene	4.849	180	69922	9.84	ppb	94
38) Naphthalene	4.678	128	207439	9.42	ppb	98
39) 4-Chloroaniline	4.763	127	89792	9.65	ppb	94
40) 2,3-Dichloroaniline	5.816	161	77673	9.53	ppb	97
41) Caprolactam	5.137	55	37347	9.90	ppb	92
42) Hexachlorobutadiene	4.833	225	42812	9.45	ppb	99
43) 4-Chloro-3-methylphenol	5.372	107	68723	9.90	ppb	84
44) 2-Methylnaphthalene	5.474	141	127238	9.61	ppb	96
45) 1-Methylnaphthalene	5.586	141	127382	9.52	ppb	97
46) Dimethylnaphthalene	6.211	156	139315	9.83	ppb	99
48) Hexachlorocyclopentadiene	5.666	237	46080	19.43	ppb	99
49) 2,4,6-Trichlorophenol	5.832	196	44734	9.71	ppb	97
50) 2,4,5-Trichlorophenol	5.885	196	48039	9.47	ppb	95
52) 2-Chloronaphthalene	6.040	162	141841	9.47	ppb	98
53) Biphenyl	6.029	154	190472	9.63	ppb	99
54) 2-Nitroaniline	6.190	65	54343	10.27	ppb	95
55) Dimethylphthalate	6.419	163	171900	9.98	ppb	96
56) Acenaphthylene	6.526	152	235220	9.75	ppb	99
57) 2,6-Dinitrotoluene	6.484	165	36835	9.97	ppb	85
58) 3-Nitroaniline	6.686	138	44090	9.94	ppb	95
59) Acenaphthene	6.735	153	141729	9.49	ppb	97
60) 2,4-Dinitrophenol	6.825	184	28179	17.95	ppb	# 71
61) 4-Nitrophenol	6.980	109	31434	10.02	ppb	96
62) Dibenzofuran	6.943	168	208048	9.82	ppb	94
63) 2,4-Dinitrotoluene	6.975	165	52153	9.97	ppb	99
64) 2,3,4,6-Tetrachlorophenol	7.125	232	40231	9.38	ppb	97
65) Diethylphthalate	7.269	149	186898	10.00	ppb	98
66) Fluorene	7.349	166	169230	9.75	ppb	98
67) 4-Chlorophenyl-phenyle...	7.370	204	78772	10.02	ppb	90
68) 4-Nitroaniline	7.418	138	43502	10.08	ppb	93
70) 4,6-Dinitro-2-methylph...	7.466	198	25560	7.73	ppb	86
71) n-Nitrosodiphenylamine	7.525	169	112255	9.32	ppb	94
72) 1,2-Diphenylhydrazine	7.563	77	183840	9.65	ppb	98
74) 4-Bromophenyl-phenylether	7.953	248	46782	9.20	ppb	92
75) Hexachlorobenzene	8.017	284	59047	9.29	ppb	90
76) Pentachlorophenol	8.278	266	56650	19.85	ppb	95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4615\
 Data File : z92867.D
 Acq On : 24 Jun 2014 1:44 pm
 Operator : ashleyv
 Sample : ic4615-10
 Misc : op75490,ez4615
 ALS Vial : 9 Sample Multiplier: 1

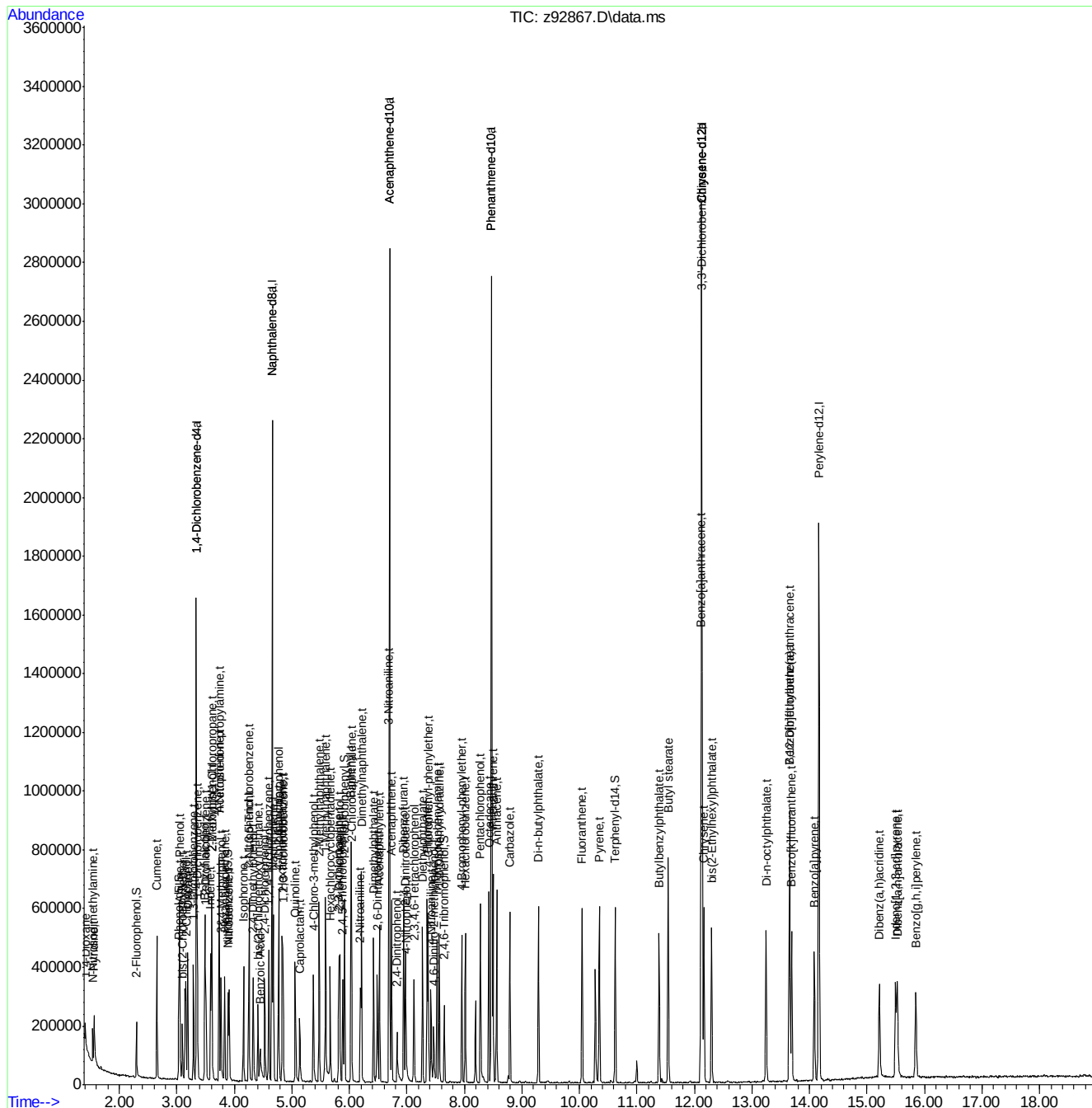
Quant Time: Jun 24 16:30:57 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MZ4615.M
 Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 QLast Update : Tue Jun 24 16:29:39 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
77) Phenanthrene	8.498	178	251572	9.22	ppb	95
78) Anthracene	8.562	178	250466	9.25	ppb	97
79) Carbazole	8.791	167	237113	9.36	ppb	97
80) Di-n-butylphthalate	9.288	149	308706	9.26	ppb	97
81) Fluoranthene	10.041	202	277466	9.32	ppb	98
82) Octadecane	8.428	57	109505	9.45	ppb	93
84) Pyrene	10.346	202	286389	9.88	ppb	96
85) Butyl stearate	11.543	56	112029	10.27	ppb	93
87) Butylbenzylphthalate	11.382	149	145004	10.11	ppb	96
88) Benzo[a]anthracene	12.114	228	270774	9.73	ppb	99
89) 3,3'-Dichlorobenzidine	12.125	252	104644	9.74	ppb	95
90) Chrysene	12.162	228	233969	10.03	ppb	99
91) bis(2-Ethylhexyl)phtha...	12.296	149	179994	10.09	ppb	98
93) Di-n-octylphthalate	13.247	149	309722	9.01	ppb	98
94) Benzo[b]fluoranthene	13.653	252	258387	9.44	ppb	98
95) Benzo[k]fluoranthene	13.690	252	227010	9.19	ppb	98
96) Benzo[a]pyrene	14.080	252	215757	9.39	ppb	98
97) Indeno[1,2,3-cd]pyrene	15.501	276	230139	9.52	ppb	96
98) Dibenz(a,h)acridine	15.218	279	173006	9.38	ppb	97
99) Dibenz[a,h]anthracene	15.528	278	182632	9.54	ppb	98
100) 7,12-Dimethylbenz(a)an...	13.653	256	105426	11.16	ppb	97
101) Benzo[g,h,i]perylene	15.848	276	178706	9.62	ppb	97

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

```
Data Path   : C:\msdchem\1\DATA\ez4615\
Data File  : z92867.D
Acq On     : 24 Jun 2014    1:44 pm
Operator   : ashleyv
Sample     : ic4615-10
Misc       : op75490,ez4615
ALS Vial   : 9      Sample Multiplier: 1
```

Quant Time: Jun 24 16:30:57 2014
Quant Method : C:\MSDCHEM\1\METHODS\MZ4615.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Tue Jun 24 16:29:39 2014
Response via : Initial Calibration



MZ4615.M Tue Jun 24 16:31:01 2014 RTE

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Manual Integration Approval Summary

Sample Number: EZ4615-IC4615

Method: SW846 8270D

Lab FileID: Z92867.D

Analyst approved: 06/25/14 16:02 Ashley Vought

Injection Time: 06/24/14 13:44

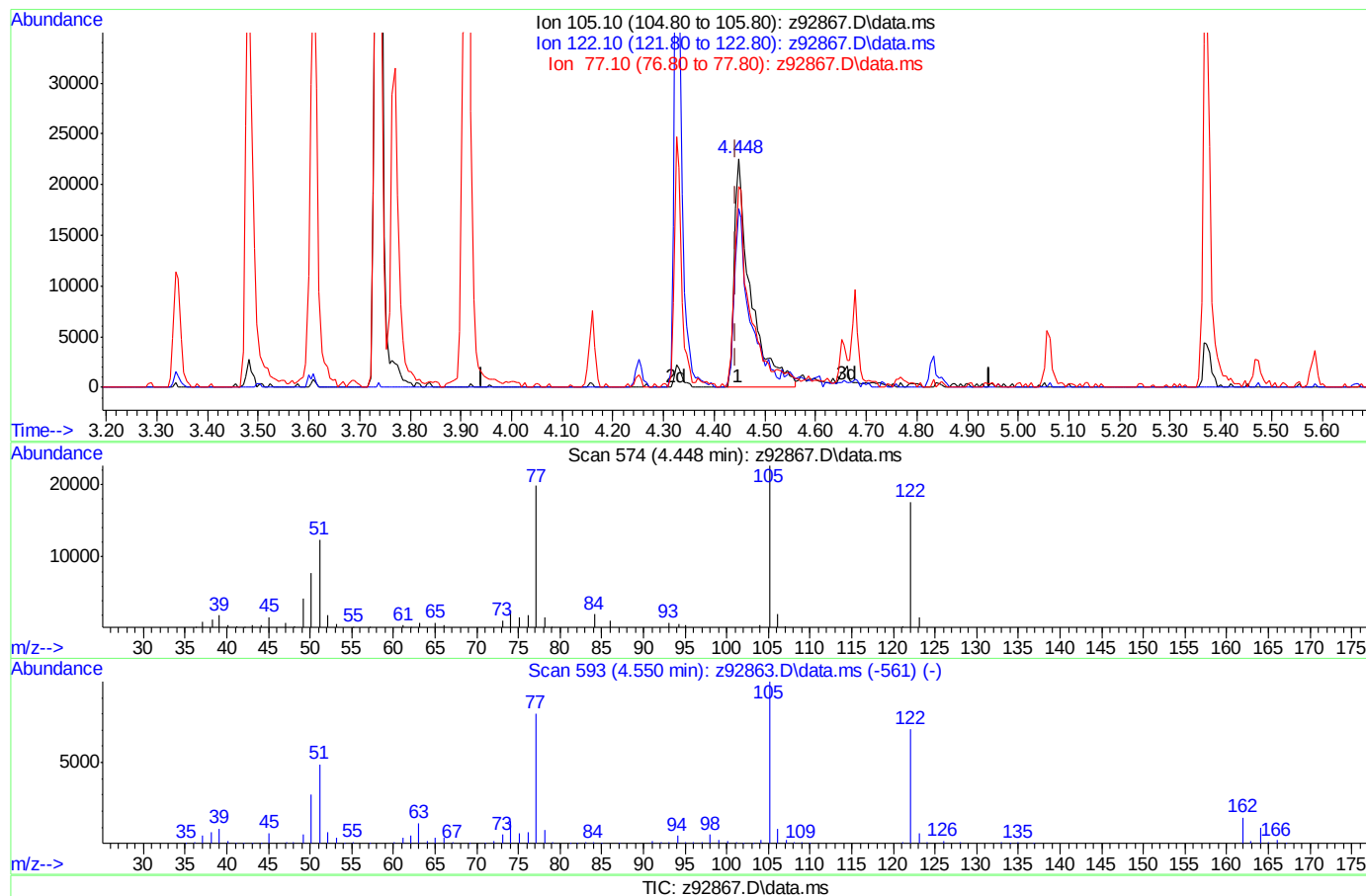
Supervisor approved: 06/27/14 13:21 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
1,4-Dioxane	123-91-1		1.41	Poor instrument integration
Benzoic Acid	65-85-0		4.45	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez4615\
Data File : z92867.D
Acq On : 24 Jun 2014 1:44 pm
Operator : ashleyv
Sample : ic4615-10
Misc : op75490,ez4615
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 24 14:53:01 2014
Quant Method : C:\MSDCHEM\1\METHODS\MZ4615.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Tue Jun 24 14:52:56 2014
Response via : Initial Calibration



(31) Benzoic Acid

4.448min (+0.005) 10.64ppb

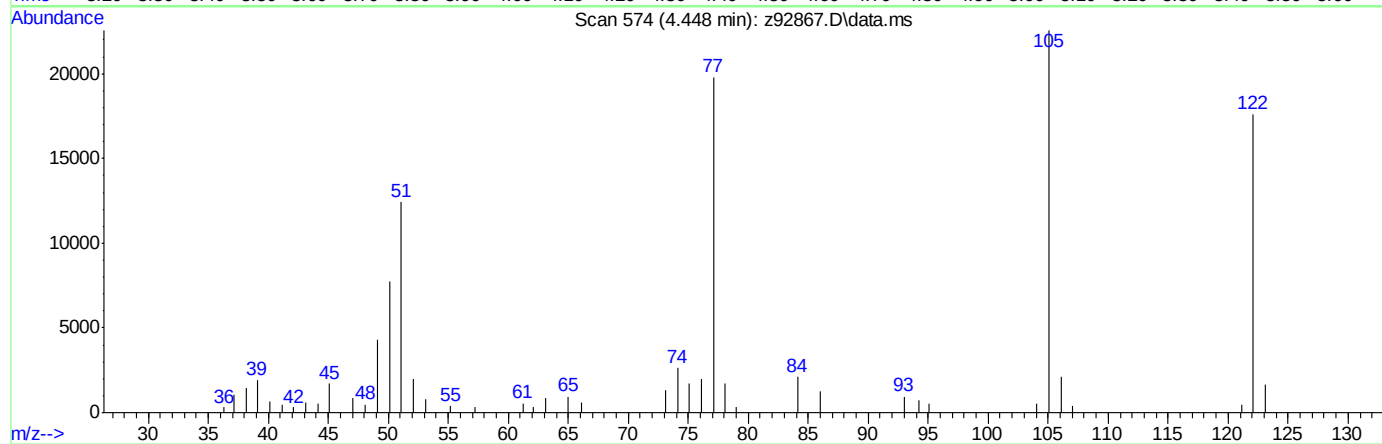
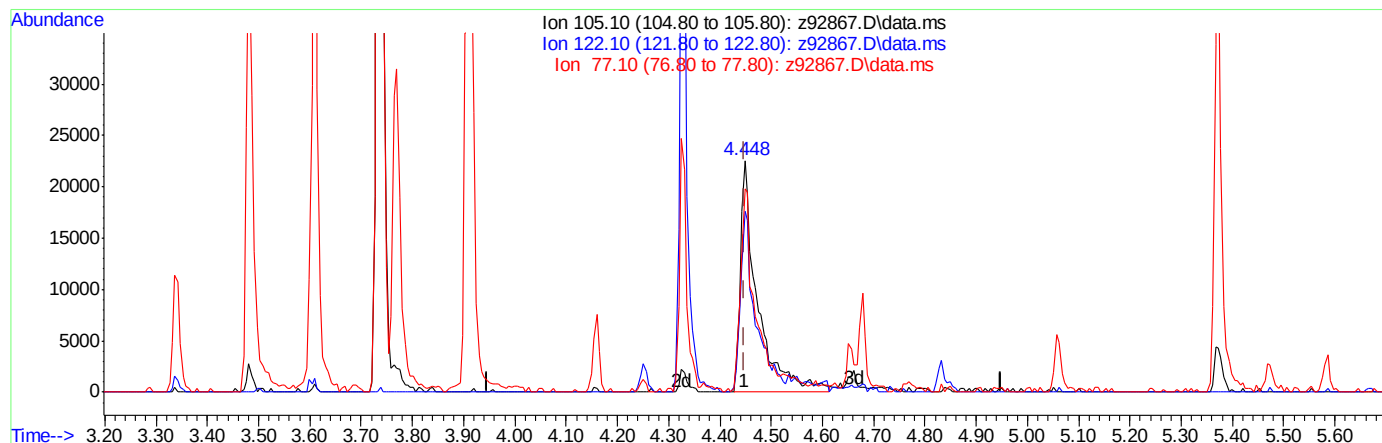
response 50286

Ion	Exp%	Act%
105.10	100	100
122.10	69.00	73.34
77.10	35.20	78.81#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez4615\
Data File : z92867.D
Acq On : 24 Jun 2014 1:44 pm
Operator : ashleyv
Sample : ic4615-10
Misc : op75490,ez4615
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 24 16:30:57 2014
Quant Method : C:\MSDCHEM\1\METHODS\MZ4615.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Tue Jun 24 16:29:39 2014
Response via : Initial Calibration



(31) Benzoic Acid

4.448min (0.000) 9.21ppb m

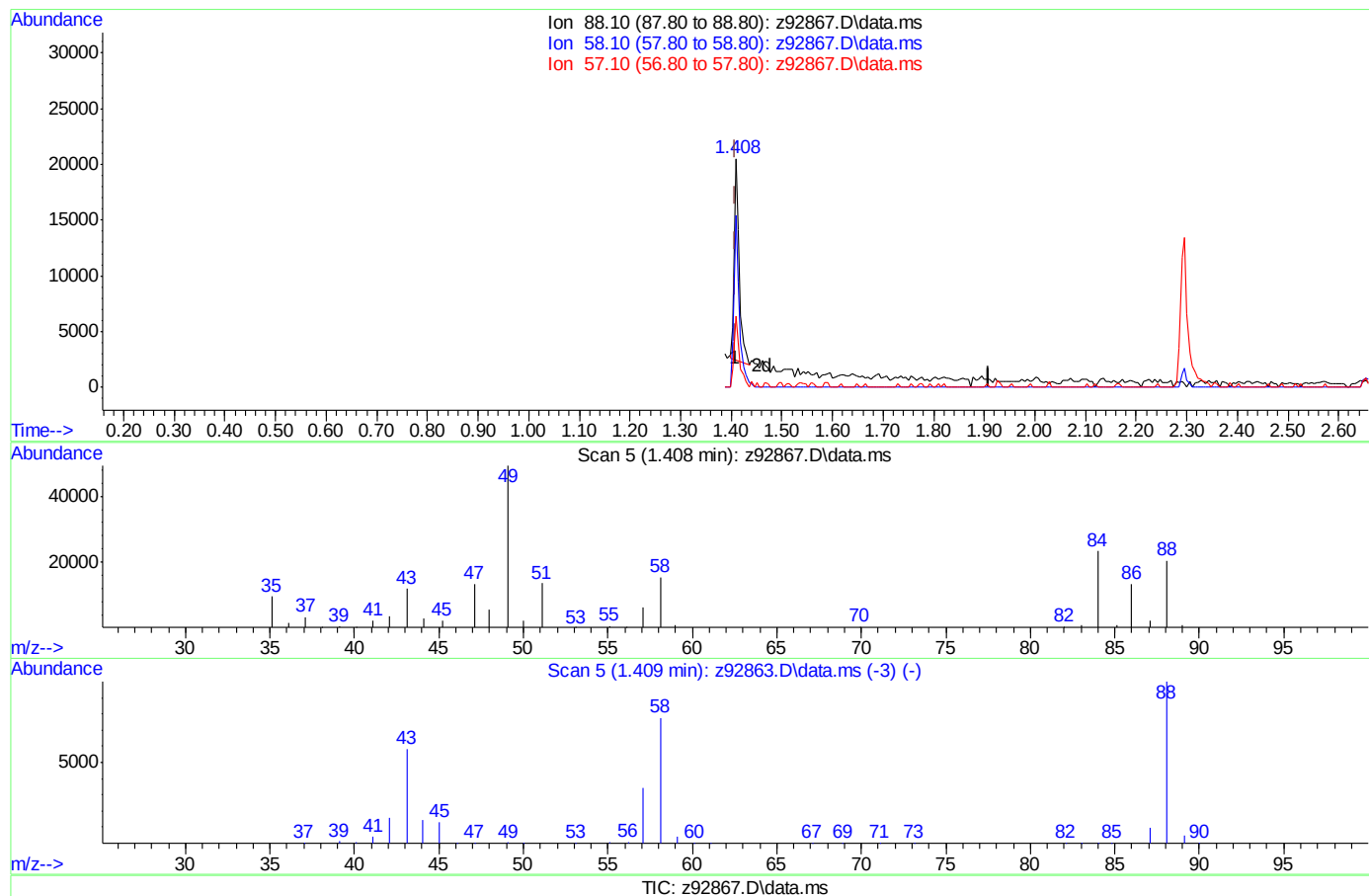
response 52859

Ion	Exp%	Act%
105.10	100	100
122.10	69.00	69.77
77.10	35.20	74.97#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez4615\
Data File : z92867.D
Acq On : 24 Jun 2014 1:44 pm
Operator : ashleyv
Sample : ic4615-10
Misc : op75490,ez4615
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 24 16:30:57 2014
Quant Method : C:\MSDCHEM\1\METHODS\MZ4615.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Tue Jun 24 16:29:39 2014
Response via : Initial Calibration



(2) 1,4-Dioxane

1.408min (0.000) 9.69ppb m

response 12654

Ion	Exp%	Act%
88.10	100	100
58.10	78.80	93.20
57.10	34.50	38.57
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4615\
 Data File : z92868.D
 Acq On : 24 Jun 2014 2:36 pm
 Operator : ashleyv
 Sample : ic4615-25
 Misc : op75490,ez4615
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 24 15:25:36 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MZ4615.M
 Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 QLast Update : Tue Jun 24 14:54:10 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.337	152	182321	40.00	ppb	0.00
24) Naphthalene-d8	4.656	136	739198	40.00	ppb	0.00
47) Acenaphthene-d10	6.697	164	475755	40.00	ppb	0.00
69) Phenanthrene-d10	8.476	188	824570	40.00	ppb	0.00
83) Chrysene-d12	12.136	240	888416	40.00	ppb	0.00
92) Perylene-d12	14.171	264	718624	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	3.337	152	182321	40.00	ppb	0.00
104) Phenanthrene-d10a	8.476	188	824570	40.00	ppb	0.00
107) Chrysene-d12a	12.136	240	888416	40.00	ppb	0.00
110) Acenaphthene-d10a	6.697	164	475755	40.00	ppb	0.00
112) Naphthalene-d8a	4.656	136	739198	40.00	ppb	0.00
114) Chrysene-d12b	12.136	240	888416	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	2.290	112	115433	25.42	ppb	0.00
Spiked Amount 50.000			Recovery	=	50.84%	
8) Phenol-d5	3.032	99	163752	25.56	ppb	0.00
Spiked Amount 50.000			Recovery	=	51.12%	
25) Nitrobenzene-d5	3.893	82	170824	25.50	ppb	0.00
Spiked Amount 50.000			Recovery	=	51.00%	
51) 2-Fluorobiphenyl	5.923	172	349821	25.15	ppb	0.00
Spiked Amount 50.000			Recovery	=	50.30%	
73) 2,4,6-Tribromophenol	7.653	330	58349	26.12	ppb	0.00
Spiked Amount 50.000			Recovery	=	52.24%	
86) Terphenyl-d14	10.629	244	432388	25.56	ppb	0.00
Spiked Amount 50.000			Recovery	=	51.12%	
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	1.408	88	35446	31.74	ppb	97
3) Pyridine	1.563	79	95266	25.78	ppb	95
4) N-Nitrosodimethylamine	1.542	74	55981	26.33	ppb	96
6) Indene	3.588	116	252238	24.22	ppb	98
7) Cumene	2.653	105	353230	24.92	ppb	99
9) Phenol	3.043	94	184023	24.58	ppb	76
10) Aniline	3.043	93	193960	24.00	ppb	98
11) bis(2-Chloroethyl)ether	3.097	93	121931	24.55	ppb	98
12) 2-Chlorophenol	3.155	128	150855	24.76	ppb	97
13) Decane	3.187	43	178430	26.13	ppb	94
14) 1,3-Dichlorobenzene	3.289	146	174252	24.97	ppb	99
15) 1,4-Dichlorobenzene	3.353	146	176452	24.23	ppb	96
16) Benzyl alcohol	3.481	108	98979	24.57	ppb	88
17) 1,2-Dichlorobenzene	3.503	146	166405	24.27	ppb	98
18) Acetophenone	3.738	105	230373	25.47	ppb	96
19) 2-Methylphenol	3.609	108	131943	24.57	ppb	96
20) 2,2'-oxybis(1-Chloropr...	3.609	121	50245	24.93	ppb	94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4615\
 Data File : z92868.D
 Acq On : 24 Jun 2014 2:36 pm
 Operator : ashleyv
 Sample : ic4615-25
 Misc : op75490,ez4615
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 24 15:25:36 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MZ4615.M
 Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 QLast Update : Tue Jun 24 14:54:10 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
21) 3&4-Methylphenol	3.770	108	143518	25.22	ppb	98
22) n-Nitroso-di-n-propyla...	3.738	70	113265	24.57	ppb	89
23) Hexachloroethane	3.834	201	64336	24.57	ppb	93
26) Nitrobenzene	3.914	77	179077	25.46	ppb	97
27) Quinoline	5.062	129	327520	25.37	ppb	100
28) Isophorone	4.160	82	295422	25.46	ppb	97
29) 2-Nitrophenol	4.250	139	90850	26.54	ppb	94
30) 2,4-Dimethylphenol	4.331	107	154407	25.49	ppb	95
31) Benzoic Acid	4.475	105	129794	31.01	ppb #	77
32) bis(2-Chloroethoxy)met...	4.411	93	158170	25.94	ppb	99
33) 2,4-Dichlorophenol	4.528	162	133156	25.59	ppb	97
34) 2,6-Dichlorophenol	4.774	162	134960	25.68	ppb	99
35) 1,3,5-Trichlorobenzene	4.256	180	162651	25.38	ppb	99
36) 1,2,4-Trichlorobenzene	4.603	180	151853	24.95	ppb	97
37) 1,2,3-Trichlorobenzene	4.849	180	155384	25.61	ppb	97
38) Naphthalene	4.678	128	469084	24.78	ppb	99
39) 4-Chloroaniline	4.769	127	199422	25.02	ppb	98
40) 2,3-Dichloroaniline	5.821	161	175091	25.01	ppb	100
41) Caprolactam	5.153	55	84025	25.78	ppb	98
42) Hexachlorobutadiene	4.833	225	97879	25.20	ppb	98
43) 4-Chloro-3-methylphenol	5.372	107	151618	25.61	ppb	92
44) 2-Methylnaphthalene	5.474	141	284051	25.06	ppb	97
45) 1-Methylnaphthalene	5.586	141	285300	24.73	ppb	94
46) Dimethylnaphthalene	6.211	156	300818	24.74	ppb	97
48) Hexachlorocyclopentadiene	5.671	237	137481	49.15	ppb	99
49) 2,4,6-Trichlorophenol	5.837	196	102094	26.12	ppb	97
50) 2,4,5-Trichlorophenol	5.891	196	108625	25.06	ppb	97
52) 2-Chloronaphthalene	6.040	162	320829	25.15	ppb	95
53) Biphenyl	6.029	154	422333	25.10	ppb	100
54) 2-Nitroaniline	6.195	65	115219	25.39	ppb	98
55) Dimethylphthalate	6.425	163	368997	24.82	ppb	97
56) Acenaphthylene	6.526	152	513265	24.75	ppb	99
57) 2,6-Dinitrotoluene	6.489	165	82568	26.28	ppb	88
58) 3-Nitroaniline	6.692	138	94880	25.05	ppb	96
59) Acenaphthene	6.735	153	311386	24.15	ppb	98
60) 2,4-Dinitrophenol	6.825	184	85390	52.53	ppb #	74
61) 4-Nitrophenol	6.975	109	74081	28.37	ppb	92
62) Dibenzofuran	6.948	168	453720	24.97	ppb	97
63) 2,4-Dinitrotoluene	6.975	165	120887	27.42	ppb	96
64) 2,3,4,6-Tetrachlorophenol	7.125	232	91752	25.01	ppb	89
65) Diethylphthalate	7.274	149	412931	26.01	ppb	99
66) Fluorene	7.354	166	367029	24.74	ppb	99
67) 4-Chlorophenyl-phenyle...	7.376	204	162950	24.15	ppb	92
68) 4-Nitroaniline	7.424	138	96502	26.38	ppb	95
70) 4,6-Dinitro-2-methylph...	7.466	198	62671	23.25	ppb	95
71) n-Nitrosodiphenylamine	7.525	169	243899	24.80	ppb	100
72) 1,2-Diphenylhydrazine	7.563	77	394388	25.46	ppb	98
74) 4-Bromophenyl-phenylether	7.958	248	105586	25.64	ppb	100
75) Hexachlorobenzene	8.022	284	126250	24.25	ppb	93
76) Pentachlorophenol	8.284	266	137443	49.14	ppb	94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4615\
 Data File : z92868.D
 Acq On : 24 Jun 2014 2:36 pm
 Operator : ashleyv
 Sample : ic4615-25
 Misc : op75490,ez4615
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 24 15:25:36 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MZ4615.M
 Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 QLast Update : Tue Jun 24 14:54:10 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
77) Phenanthrene	8.503	178	547456	24.49	ppb	99
78) Anthracene	8.567	178	547150	24.66	ppb	98
79) Carbazole	8.797	167	519232	25.11	ppb	100
80) Di-n-butylphthalate	9.294	149	703127	26.14	ppb	99
81) Fluoranthene	10.047	202	617163	25.64	ppb	99
82) Octadecane	8.428	57	242272	25.65	ppb	92
84) Pyrene	10.351	202	637358	25.33	ppb	97
85) Butyl stearate	11.548	56	244219	25.84	ppb	91
87) Butylbenzylphthalate	11.388	149	325266	26.19	ppb	98
88) Benzo[a]anthracene	12.120	228	586347	23.89	ppb	99
89) 3,3'-Dichlorobenzidine	12.130	252	235761	25.49	ppb	94
90) Chrysene	12.168	228	501651	24.51	ppb	99
91) bis(2-Ethylhexyl)phtha...	12.301	149	405108	26.20	ppb	99
93) Di-n-octylphthalate	13.252	149	707262	24.93	ppb	97
94) Benzo[b]fluoranthene	13.663	252	572090	25.94	ppb	97
95) Benzo[k]fluoranthene	13.701	252	514959	25.15	ppb	99
96) Benzo[a]pyrene	14.091	252	479140	25.13	ppb	98
97) Indeno[1,2,3-cd]pyrene	15.507	276	526557	26.57	ppb	99
98) Dibenz(a,h)acridine	15.223	279	395952	26.22	ppb	99
99) Dibenz[a,h]anthracene	15.539	278	425541	27.41	ppb	99
100) 7,12-Dimethylbenz(a)an...	13.658	256	257363	27.76	ppb	97
101) Benzo[g,h,i]perylene	15.859	276	397270	25.68	ppb	98

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

```
Data Path   : C:\msdchem\1\DATA\ez4615\
Data File  : z92868.D
Acq On     : 24 Jun 2014    2:36 pm
Operator   : ashleyv
Sample     : ic4615-25
Misc       : op75490,ez4615
ALS Vial   : 10    Sample Multiplier: 1
```

[illegible]

Page: 4

9.6.127

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4615\
 Data File : z92869.D
 Acq On : 24 Jun 2014 3:02 pm
 Operator : ashleyv
 Sample : ic4615-80
 Misc : op75490,ez4615
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 25 15:21:40 2014
 Quant Method : C:\msdchem\1\METHODS\MZ4615.M
 Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 QLast Update : Wed Jun 25 15:21:15 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.342	152	220105	40.00	ppb	0.00
24) Naphthalene-d8	4.656	136	918965	40.00	ppb	0.00
47) Acenaphthene-d10	6.697	164	614440	40.00	ppb	0.00
69) Phenanthrene-d10	8.476	188	1000408	40.00	ppb	0.00
83) Chrysene-d12	12.136	240	1253788	40.00	ppb	0.00
92) Perylene-d12	14.171	264	794799	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	3.342	152	220105	40.00	ppb	0.00
104) Phenanthrene-d10a	8.476	188	1000408	40.00	ppb	0.00
107) Chrysene-d12a	12.136	240	1253788	40.00	ppb	0.00
110) Acenaphthene-d10a	6.697	164	614440	40.00	ppb	0.00
112) Naphthalene-d8a	4.656	136	918965	40.00	ppb	0.00
114) Chrysene-d12b	12.136	240	1253788	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	2.290	112	507208	90.55	ppb	0.00
Spiked Amount 50.000			Recovery	=	181.10%	
8) Phenol-d5	3.038	99	724851	91.50	ppb	0.00
Spiked Amount 50.000			Recovery	=	183.00%	
25) Nitrobenzene-d5	3.898	82	690325	82.31	ppb	0.00
Spiked Amount 50.000			Recovery	=	164.62%	
51) 2-Fluorobiphenyl	5.923	172	1482275	82.12	ppb	0.00
Spiked Amount 50.000			Recovery	=	164.24%	
73) 2,4,6-Tribromophenol	7.653	330	258260	92.57	ppb	0.00
Spiked Amount 50.000			Recovery	=	185.14%	
86) Terphenyl-d14	10.634	244	1857087	77.84	ppb	0.00
Spiked Amount 50.000			Recovery	=	155.68%	
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	1.408	88	139560	100.72	ppb	98
3) Pyridine	1.558	79	414566	90.73	ppb	100
4) N-Nitrosodimethylamine	1.537	74	238258	90.40	ppb	96
6) Indene	3.588	116	1048346	83.26	ppb	99
7) Cumene	2.653	105	1483811	85.84	ppb	100
9) Phenol	3.048	94	833626	90.70	ppb	88
10) Aniline	3.048	93	797318	81.91	ppb	93
11) bis(2-Chloroethyl)ether	3.102	93	480356	80.28	ppb	99
12) 2-Chlorophenol	3.161	128	638101	85.96	ppb	99
13) Decane	3.187	43	660421	79.66	ppb	98
14) 1,3-Dichlorobenzene	3.289	146	706423	83.36	ppb	99
15) 1,4-Dichlorobenzene	3.358	146	734380	83.40	ppb	99
16) Benzyl alcohol	3.486	108	449430	90.83	ppb	92
17) 1,2-Dichlorobenzene	3.502	146	707244	85.04	ppb	98
18) Acetophenone	3.743	105	965626	87.07	ppb	99
19) 2-Methylphenol	3.615	108	562487	86.03	ppb	98
20) 2,2'-oxybis(1-Chloropr...	3.609	121	197341	80.99	ppb	95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4615\
 Data File : z92869.D
 Acq On : 24 Jun 2014 3:02 pm
 Operator : ashleyv
 Sample : ic4615-80
 Misc : op75490,ez4615
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 25 15:21:40 2014
 Quant Method : C:\msdchem\1\METHODS\MZ4615.M
 Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 QLast Update : Wed Jun 25 15:21:15 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
21) 3&4-Methylphenol	3.775	108	598101	86.01	ppb	96
22) n-Nitroso-di-n-propyla...	3.748	70	476278	85.02	ppb	99
23) Hexachloroethane	3.834	201	253339	80.28	ppb	96
26) Nitrobenzene	3.919	77	716958	81.56	ppb	99
27) Quinoline	5.078	129	1363810	84.17	ppb	99
28) Isophorone	4.170	82	1209246	83.15	ppb	100
29) 2-Nitrophenol	4.256	139	391121	89.56	ppb	96
30) 2,4-Dimethylphenol	4.336	107	680669	88.73	ppb	99
31) Benzoic Acid	4.544	105	568898m	91.92	ppb	
32) bis(2-Chloroethoxy)met...	4.416	93	627602	82.05	ppb	98
33) 2,4-Dichlorophenol	4.534	162	567513	86.43	ppb	99
34) 2,6-Dichlorophenol	4.779	162	583179	87.70	ppb	99
35) 1,3,5-Trichlorobenzene	4.261	180	696911	86.29	ppb	99
36) 1,2,4-Trichlorobenzene	4.603	180	637805	83.74	ppb	96
37) 1,2,3-Trichlorobenzene	4.854	180	653610	85.51	ppb	99
38) Naphthalene	4.683	128	1996064	84.28	ppb	99
39) 4-Chloroaniline	4.774	127	857689	85.67	ppb	99
40) 2,3-Dichloroaniline	5.821	161	738226	84.19	ppb	99
41) Caprolactam	5.201	55	318174	78.39	ppb	99
42) Hexachlorobutadiene	4.838	225	411959	84.52	ppb	98
43) 4-Chloro-3-methylphenol	5.383	107	641886	85.99	ppb	# 40
44) 2-Methylnaphthalene	5.479	141	1217195	85.50	ppb	98
45) 1-Methylnaphthalene	5.591	141	1189488	82.66	ppb	96
46) Dimethylnaphthalene	6.216	156	1308414	85.79	ppb	99
48) Hexachlorocyclopentadiene	5.671	237	804768	158.91	ppb	99
49) 2,4,6-Trichlorophenol	5.842	196	435089	84.88	ppb	98
50) 2,4,5-Trichlorophenol	5.896	196	474297	84.07	ppb	96
52) 2-Chloronaphthalene	6.045	162	1425843	85.60	ppb	100
53) Biphenyl	6.035	154	1907692	86.68	ppb	100
54) 2-Nitroaniline	6.200	65	478906	81.33	ppb	94
55) Dimethylphthalate	6.430	163	1526195	79.63	ppb	98
56) Acenaphthylene	6.532	152	2199284	81.95	ppb	100
57) 2,6-Dinitrotoluene	6.499	165	340122	82.81	ppb	97
58) 3-Nitroaniline	6.697	138	418558	84.80	ppb	99
59) Acenaphthene	6.740	153	1353898	81.49	ppb	99
60) 2,4-Dinitrophenol	6.836	184	457166	166.29	ppb	90
61) 4-Nitrophenol	6.980	109	309314	88.61	ppb	# 84
62) Dibenzofuran	6.954	168	1935591	82.17	ppb	99
63) 2,4-Dinitrotoluene	6.980	165	492010	84.54	ppb	92
64) 2,3,4,6-Tetrachlorophenol	7.130	232	400547	83.95	ppb	98
65) Diethylphthalate	7.285	149	1754275	84.39	ppb	100
66) Fluorene	7.360	166	1645003	85.20	ppb	100
67) 4-Chlorophenyl-phenyle...	7.376	204	742682	84.90	ppb	97
68) 4-Nitroaniline	7.445	138	406100	84.58	ppb	96
70) 4,6-Dinitro-2-methylph...	7.477	198	297405	89.75	ppb	97
71) n-Nitrosodiphenylamine	7.536	169	1053057	87.22	ppb	100
72) 1,2-Diphenylhydrazine	7.568	77	1671540	87.52	ppb	99
74) 4-Bromophenyl-phenylether	7.958	248	455473	89.32	ppb	98
75) Hexachlorobenzene	8.027	284	555591	87.19	ppb	99
76) Pentachlorophenol	8.289	266	675478	162.11	ppb	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4615\
 Data File : z92869.D
 Acq On : 24 Jun 2014 3:02 pm
 Operator : ashleyv
 Sample : ic4615-80
 Misc : op75490,ez4615
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 25 15:21:40 2014
 Quant Method : C:\msdchem\1\METHODS\MZ4615.M
 Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 QLast Update : Wed Jun 25 15:21:15 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
77) Phenanthrene	8.508	178	2357945	86.24	ppb	99
78) Anthracene	8.572	178	2335009	85.99	ppb	100
79) Carbazole	8.802	167	2195286	86.45	ppb	100
80) Di-n-butylphthalate	9.293	149	2989694	89.49	ppb	100
81) Fluoranthene	10.052	202	2684093	89.94	ppb	100
82) Octadecane	8.433	57	990216	85.27	ppb	97
84) Pyrene	10.362	202	2739813	77.38	ppb	99
85) Butyl stearate	11.553	56	1019739	76.57	ppb	98
87) Butylbenzylphthalate	11.393	149	1331219	75.99	ppb	100
88) Benzo[a]anthracene	12.125	228	2483317	73.04	ppb	99
89) 3,3'-Dichlorobenzidine	12.141	252	1066274	81.28	ppb	100
90) Chrysene	12.184	228	2102563	73.81	ppb	99
91) bis(2-Ethylhexyl)phtha...	12.301	149	1630473	74.88	ppb	99
93) Di-n-octylphthalate	13.252	149	2979312	92.80	ppb	98
94) Benzo[b]fluoranthene	13.679	252	2538602	99.28	ppb	99
95) Benzo[k]fluoranthene	13.717	252	2071241	89.82	ppb	99
96) Benzo[a]pyrene	14.102	252	1905321	88.85	ppb	99
97) Indeno[1,2,3-cd]pyrene	15.523	276	2064782	91.45	ppb	99
98) Dibenz(a,h)acridine	15.234	279	1596347	92.75	ppb	99
99) Dibenz[a,h]anthracene	15.555	278	1686214	94.37	ppb	99
100) 7,12-Dimethylbenz(a)an...	13.674	256	1168363	77.01	ppb	98
101) Benzo[g,h,i]perylene	15.880	276	1482659	85.48	ppb	99

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

Data Path : C:\msdchem\1\DATA\ez4615\
Data File : z92869.D
Acq On : 24 Jun 2014 3:02 pm
Operator : ashleyv
Sample : ic4615-80
Misc : op75490,ez4615
ALS Vial : 11 Sample Multiplier: 1

[illegible]

9.6.128

Manual Integration Approval Summary

Sample Number: EZ4615-IC4615

Method: SW846 8270D

Lab FileID: Z92869.D

Analyst approved: 06/25/14 16:02 Ashley Vought

Injection Time: 06/24/14 15:02

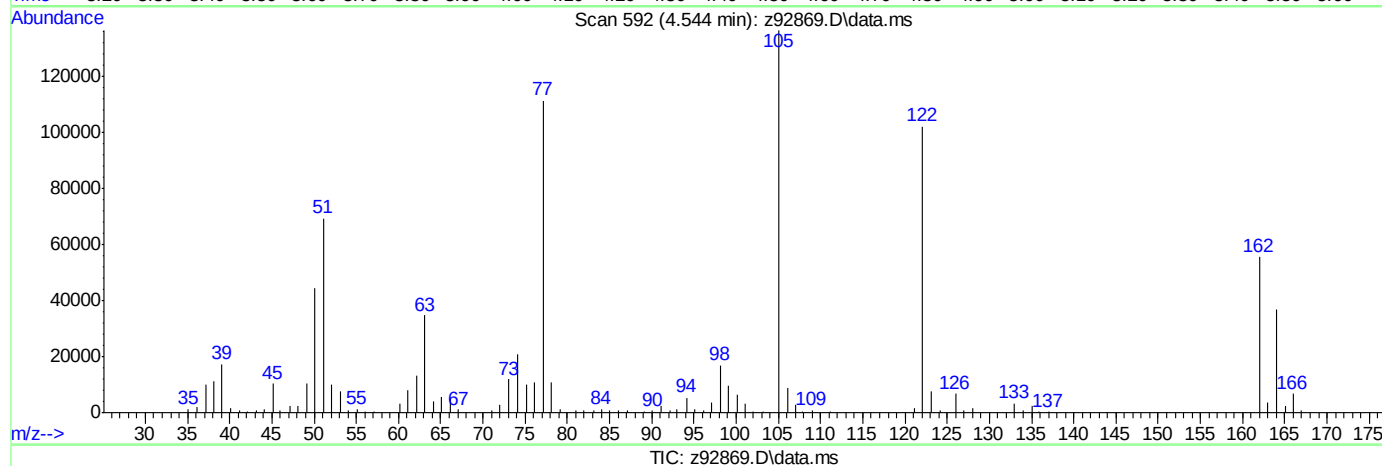
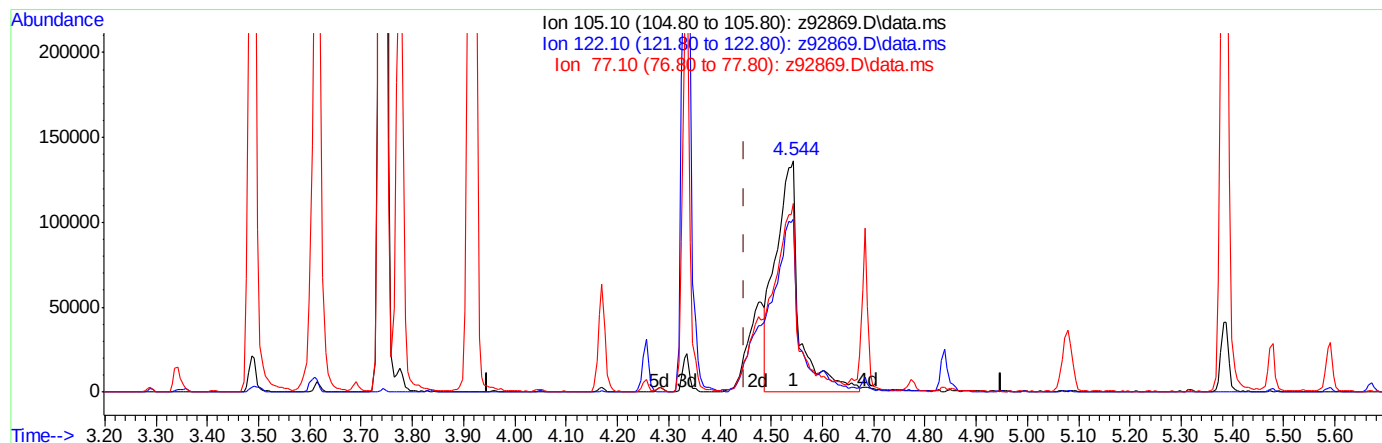
Supervisor approved: 06/27/14 13:21 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic Acid	65-85-0		4.54	Poor instrument integration
Benzo(k)fluoranthene	207-08-9		13.72	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez4615\
Data File : z92869.D
Acq On : 24 Jun 2014 3:02 pm
Operator : ashleyv
Sample : ic4615-80
Misc : op75490,ez4615
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 24 15:25:44 2014
Quant Method : C:\MSDCHEM\1\METHODS\MZ4615.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Tue Jun 24 14:54:10 2014
Response via : Initial Calibration



(31) Benzoic Acid

4.544min (+0.096) 85.47ppb

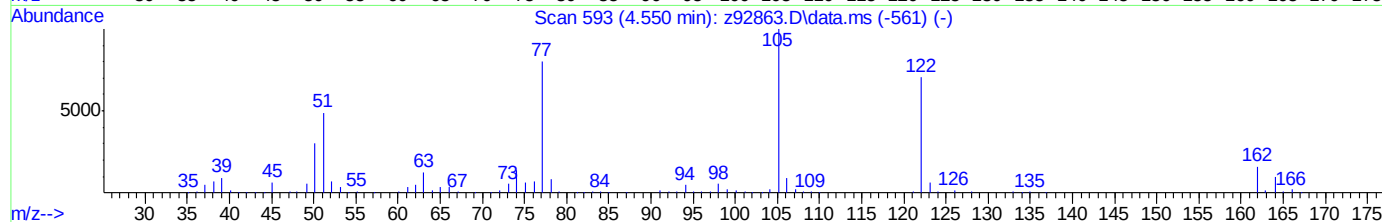
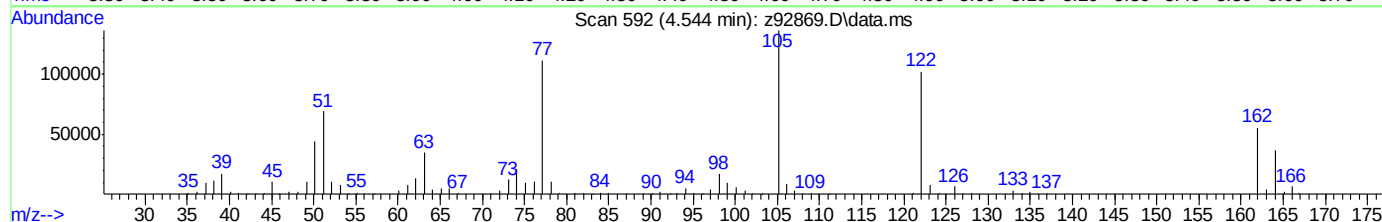
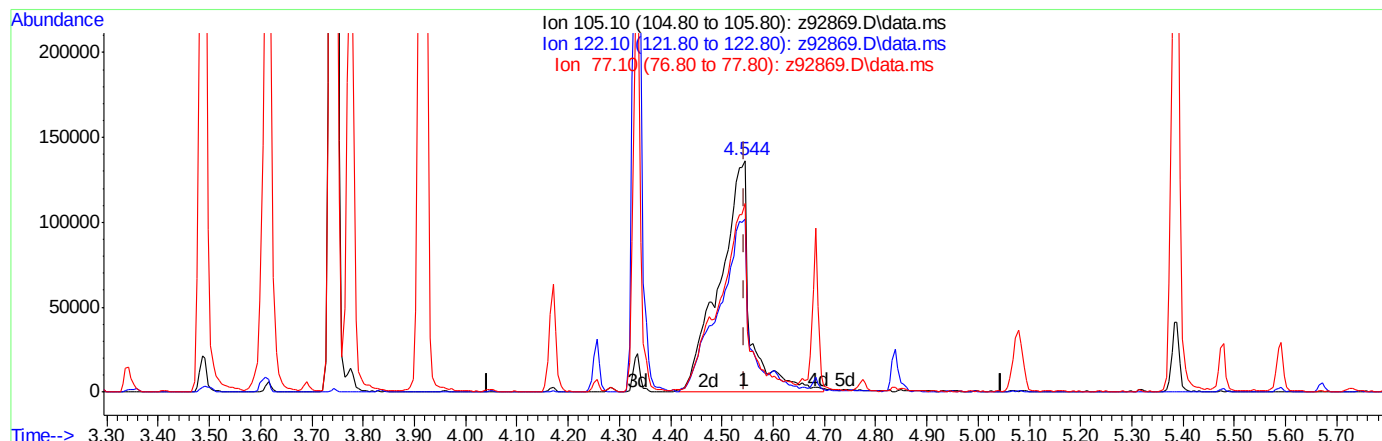
response 444717

Ion	Exp%	Act%
105.10	100	100
122.10	69.00	92.28#
77.10	35.20	79.81#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez4615\
Data File : z92869.D
Acq On : 24 Jun 2014 3:02 pm
Operator : ashleyv
Sample : ic4615-80
Misc : op75490,ez4615
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 25 15:21:18 2014
Quant Method : C:\msdchem\1\METHODS\MZ4615.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 25 15:21:15 2014
Response via : Initial Calibration



TIC: z92869.D\data.ms

(31) Benzoic Acid

4.544min (0.000) 91.92ppb m

response 568898

Ion	Exp%	Act%
105.10	100	100
122.10	69.00	72.14
77.10	35.20	62.39#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4615\
 Data File : z92870.D
 Acq On : 24 Jun 2014 3:28 pm
 Operator : ashleyv
 Sample : icv4615-50
 Misc : op75490,ez4615
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 25 15:29:13 2014
 Quant Method : C:\msdchem\1\METHODS\MZ4615.M
 Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 QLast Update : Wed Jun 25 15:21:47 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.342	152	286207	40.00	ppb	0.00
24) Naphthalene-d8	4.656	136	1103775	40.00	ppb	0.00
47) Acenaphthene-d10	6.697	164	645852	40.00	ppb	0.00
69) Phenanthrene-d10	8.471	188	1055408	40.00	ppb	0.00
83) Chrysene-d12	12.130	240	1075658	40.00	ppb	0.00
92) Perylene-d12	14.166	264	665808	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	3.342	152	286207	40.00	ppb	0.00
104) Phenanthrene-d10a	8.471	188	1055408	40.00	ppb	0.00
107) Chrysene-d12a	12.130	240	1075658	40.00	ppb	0.00
110) Acenaphthene-d10a	6.697	164	645852	40.00	ppb	0.00
112) Naphthalene-d8a	4.656	136	1103775	40.00	ppb	0.00
114) Chrysene-d12b	12.130	240	1075658	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0d	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	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	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						
3) Pyridine	1.569	79	302011	50.83	ppb	97
4) N-Nitrosodimethylamine	1.542	74	185494	54.13	ppb	97
11) bis(2-Chloroethyl)ether	3.091	93	380953	48.96	ppb	95
14) 1,3-Dichlorobenzene	3.289	146	522962	47.46	ppb	99
15) 1,4-Dichlorobenzene	3.358	146	537066	46.91	ppb	98
16) Benzyl alcohol	3.486	108	299759	46.59	ppb	95
17) 1,2-Dichlorobenzene	3.502	146	513155	47.45	ppb	99
20) 2,2'-oxybis(1-Chloropr...	3.604	121	142719	45.05	ppb	91
22) n-Nitroso-di-n-propyla...	3.738	70	323767	44.45	ppb	95
23) Hexachloroethane	3.834	201	194041	47.29	ppb	93
26) Nitrobenzene	3.914	77	514913	48.77	ppb	97
28) Isophorone	4.160	82	834078	47.75	ppb	100
32) bis(2-Chloroethoxy)met...	4.411	93	472826	51.46	ppb	98
36) 1,2,4-Trichlorobenzene	4.603	180	459235	50.20	ppb	98
38) Naphthalene	4.678	128	1402806	49.31	ppb	99
42) Hexachlorobutadiene	4.833	225	283500	48.42	ppb	98
44) 2-Methylnaphthalene	5.474	141	801318	46.86	ppb	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4615\
 Data File : z92870.D
 Acq On : 24 Jun 2014 3:28 pm
 Operator : ashleyv
 Sample : icv4615-50
 Misc : op75490,ez4615
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 25 15:29:13 2014
 Quant Method : C:\msdchem\1\METHODS\MZ4615.M
 Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 QLast Update : Wed Jun 25 15:21:47 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) Hexachlorocyclopentadiene	5.671	237	186378	46.94	ppb	94
52) 2-Chloronaphthalene	6.040	162	872299	49.82	ppb	99
54) 2-Nitroaniline	6.195	65	301146	48.66	ppb	98
55) Dimethylphthalate	6.430	163	1010839	50.18	ppb	100
56) Acenaphthylene	6.526	152	1206947	42.78	ppb	100
57) 2,6-Dinitrotoluene	6.494	165	206379	47.80	ppb	95
58) 3-Nitroaniline	6.692	138	235403	45.37	ppb	98
59) Acenaphthene	6.735	153	894475	51.22	ppb	98
62) Dibenzofuran	6.948	168	1219098	49.24	ppb	94
63) 2,4-Dinitrotoluene	6.975	165	275018	44.96	ppb	93
65) Diethylphthalate	7.274	149	1083428	49.59	ppb	98
66) Fluorene	7.354	166	1019796	50.25	ppb	98
67) 4-Chlorophenyl-phenyle...	7.376	204	463634	50.42	ppb	98
68) 4-Nitroaniline	7.429	138	235655	46.69	ppb	93
71) n-Nitrosodiphenylamine	7.531	169	637646	50.06	ppb	99
72) 1,2-Diphenylhydrazine	7.563	77	1005226	49.89	ppb	97
74) 4-Bromophenyl-phenylether	7.958	248	275260	51.17	ppb	97
75) Hexachlorobenzene	8.022	284	310707	46.22	ppb	94
77) Phenanthrene	8.503	178	1397163	48.44	ppb	100
78) Anthracene	8.567	178	1396153	48.73	ppb	100
79) Carbazole	8.797	167	1234703	46.09	ppb	98
80) Di-n-butylphthalate	9.288	149	1637134	46.45	ppb	99
81) Fluoranthene	10.047	202	1408641	44.74	ppb	99
84) Pyrene	10.357	202	1379303	45.40	ppb	99
87) Butylbenzylphthalate	11.388	149	682078	45.38	ppb	98
88) Benzo[a]anthracene	12.120	228	1273406	43.66	ppb	98
89) 3,3'-Dichlorobenzidine	12.136	252	803867	71.43	ppb	99
90) Chrysene	12.173	228	1105220	45.22	ppb	100
91) bis(2-Ethylhexyl)phtha...	12.296	149	819568	43.87	ppb	97
93) Di-n-octylphthalate	13.247	149	1259730	46.84	ppb	96
94) Benzo[b]fluoranthene	13.663	252	983271	45.90	ppb	96
95) Benzo[k]fluoranthene	13.701	252	928334	48.04	ppb	99
96) Benzo[a]pyrene	14.091	252	928562	51.69	ppb	98
97) Indeno[1,2,3-cd]pyrene	15.512	276	1120710	59.25	ppb	99
99) Dibenz[a,h]anthracene	15.539	278	892502	59.63	ppb	97
101) Benzo[g,h,i]perylene	15.864	276	858014	59.05	ppb	98

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

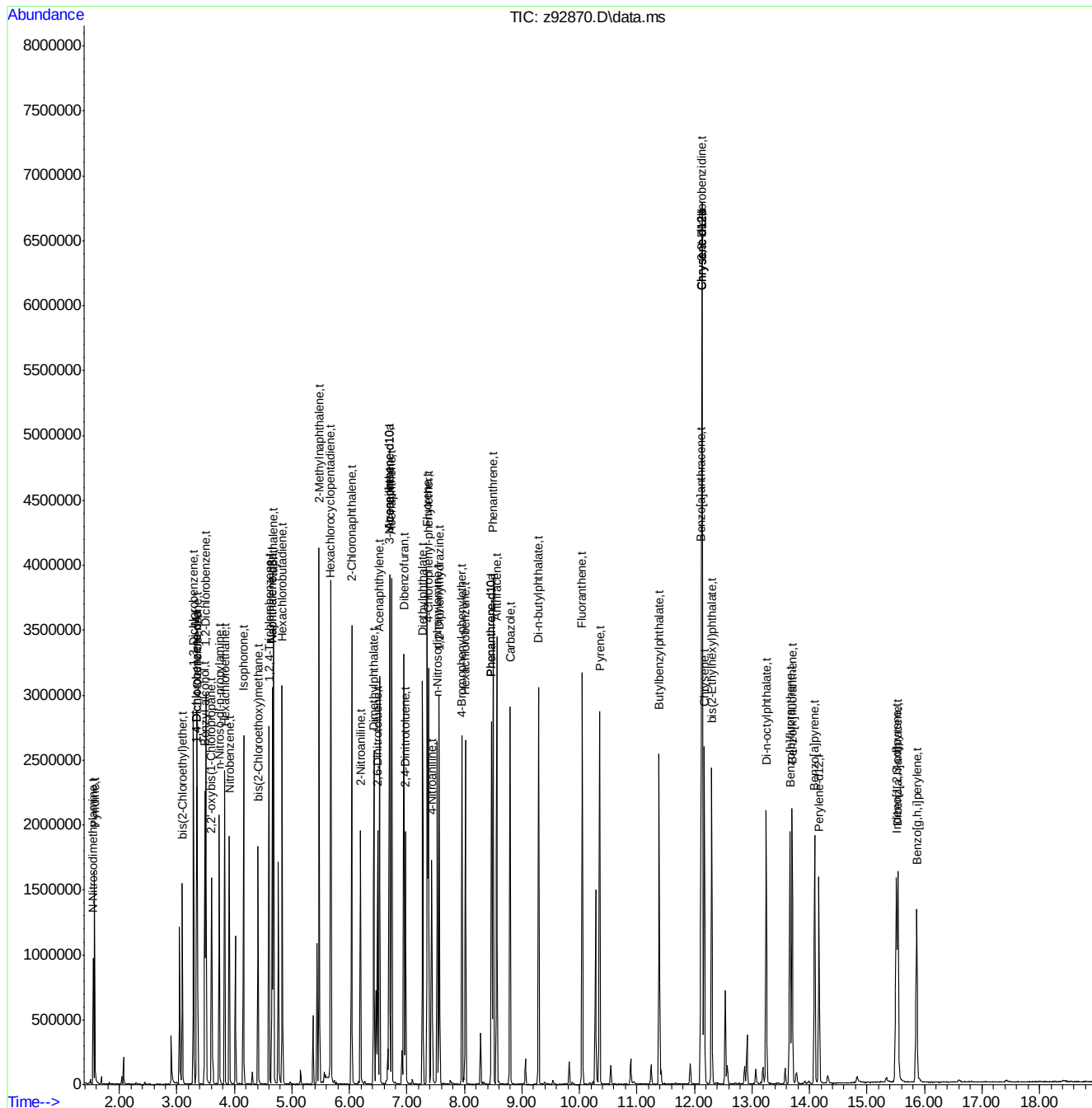
9.6.129

9

Quantitation Report (QT Reviewed)

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Data Path   : C:\msdchem\1\DATA\ez4615\
Data File  : z92870.D
Acq On     : 24 Jun 2014    3:28 pm
Operator   : ashleyv
Sample     : icv4615-50
Misc       : op75490,ez4615
ALS Vial   : 12    Sample Multiplier: 1
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Quant Time: Jun 25 15:29:13 2014
Quant Method : C:\msdchem\1\METHODS\MZ4615.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 25 15:21:47 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4615\
 Data File : z92871a.D
 Acq On : 24 Jun 2014 3:56 pm
 Operator : ashleyv
 Sample : icv4615-50
 Misc : op75490,ez4615
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 25 09:43:46 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MZ4615.M
 Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 QLast Update : Wed Jun 25 09:02:03 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.337	152	185344	40.00	ppb	0.00
24) Naphthalene-d8	4.656	136	708026	40.00	ppb	0.00
47) Acenaphthene-d10	6.697	164	430973	40.00	ppb	0.00
69) Phenanthrene-d10	8.471	188	745125	40.00	ppb	0.00
83) Chrysene-d12	12.125	240	686766	40.00	ppb	0.00
92) Perylene-d12	14.160	264	584337	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	3.337	152	185344	40.00	ppb	0.00
104) Phenanthrene-d10a	8.471	188	745125	40.00	ppb	0.00
107) Chrysene-d12a	12.125	240	686766	40.00	ppb	0.00
110) Acenaphthene-d10a	6.697	164	430973	40.00	ppb	0.00
112) Naphthalene-d8a	4.656	136	708026	40.00	ppb	0.00
114) Chrysene-d12b	12.125	240	686766	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						
9) Phenol	3.043	94	348679	45.05	ppb	Qvalue 84
12) 2-Chlorophenol	3.155	128	320401	51.26	ppb	98
19) 2-Methylphenol	3.604	108	271826	49.37	ppb	98
21) 3&4-Methylphenol	3.764	108	284197	48.53	ppb	94
29) 2-Nitrophenol	4.250	139	180502	53.65	ppb	82
30) 2,4-Dimethylphenol	4.325	107	355499	60.15	ppb	98
31) Benzoic Acid	4.491	105	218926	46.38	ppb	# 71
33) 2,4-Dichlorophenol	4.523	162	275968	54.55	ppb	98
34) 2,6-Dichlorophenol	4.769	162	272187	53.12	ppb	99
43) 4-Chloro-3-methylphenol	5.367	107	302917	52.67	ppb	88
49) 2,4,6-Trichlorophenol	5.832	196	202703	56.38	ppb	100
50) 2,4,5-Trichlorophenol	5.880	196	217558	54.98	ppb	98
61) 4-Nitrophenol	6.970	109	125459	51.05	ppb	91
64) 2,3,4,6-Tetrachlorophenol	7.119	232	176745	52.81	ppb	93
70) 4,6-Dinitro-2-methylph...	7.461	198	110768	44.88	ppb	97
76) Pentachlorophenol	8.278	266	128174	48.03	ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4615\
Data File : z92871a.D
Acq On : 24 Jun 2014 3:56 pm
Operator : ashleyv
Sample : icv4615-50
Misc : op75490,ez4615
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 25 09:43:46 2014
Quant Method : C:\MSDCHEM\1\METHODS\MZ4615.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 25 09:02:03 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

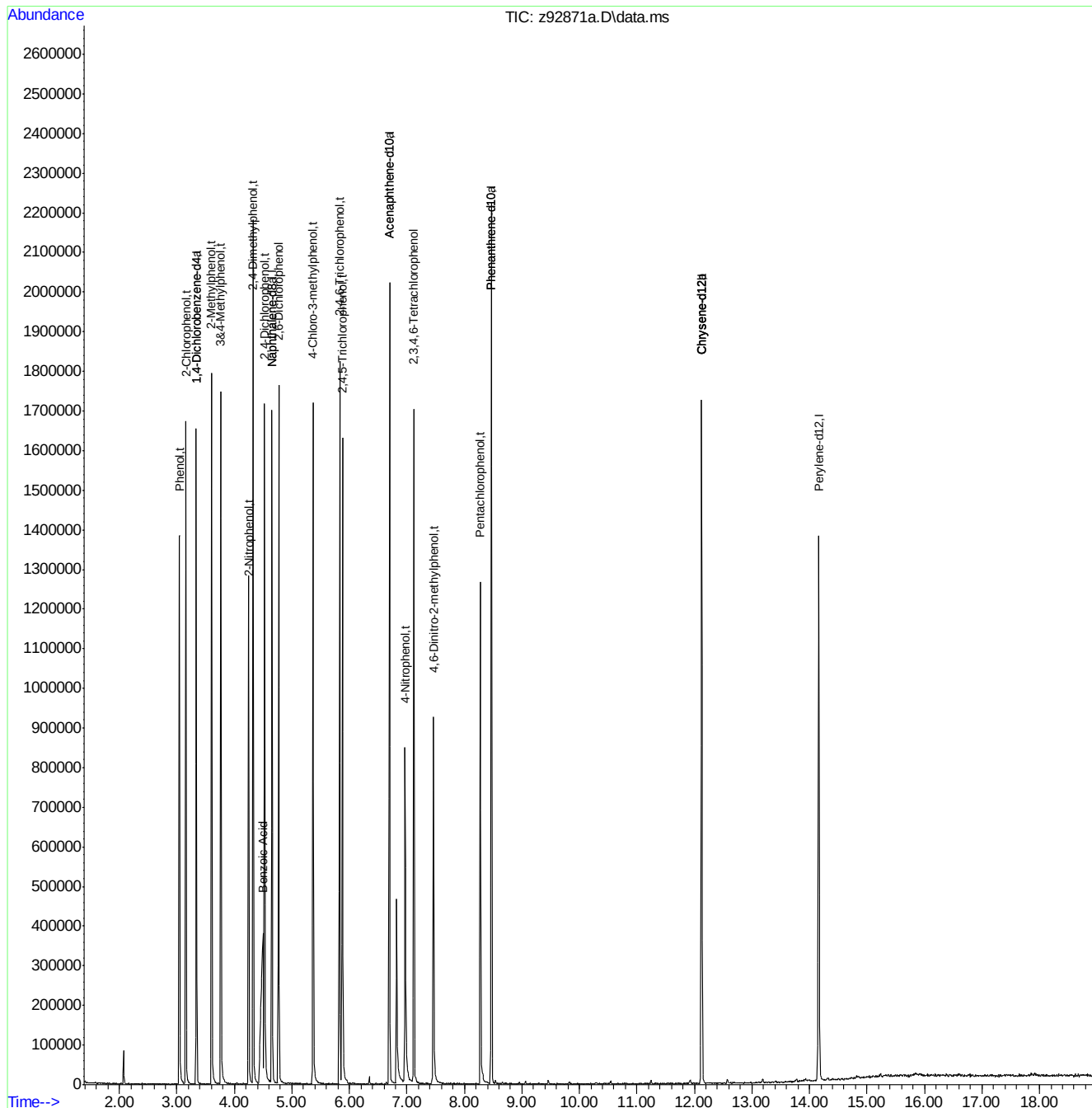
9.6.130

9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4615\
Data File : z92871a.D
Acq On : 24 Jun 2014 3:56 pm
Operator : ashleyv
Sample : icv4615-50
Misc : op75490,ez4615
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 25 09:43:46 2014
Quant Method : C:\MSDCHEM\1\METHODS\MZ4615.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 25 09:02:03 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4615\
 Data File : z92872.D
 Acq On : 24 Jun 2014 4:23 pm
 Operator : ashleyv
 Sample : icv4615-50
 Misc : op75490,ez4615
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 25 09:54:32 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MZ4615.M
 Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 QLast Update : Wed Jun 25 09:02:03 2014
 Response via : Initial Calibration

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

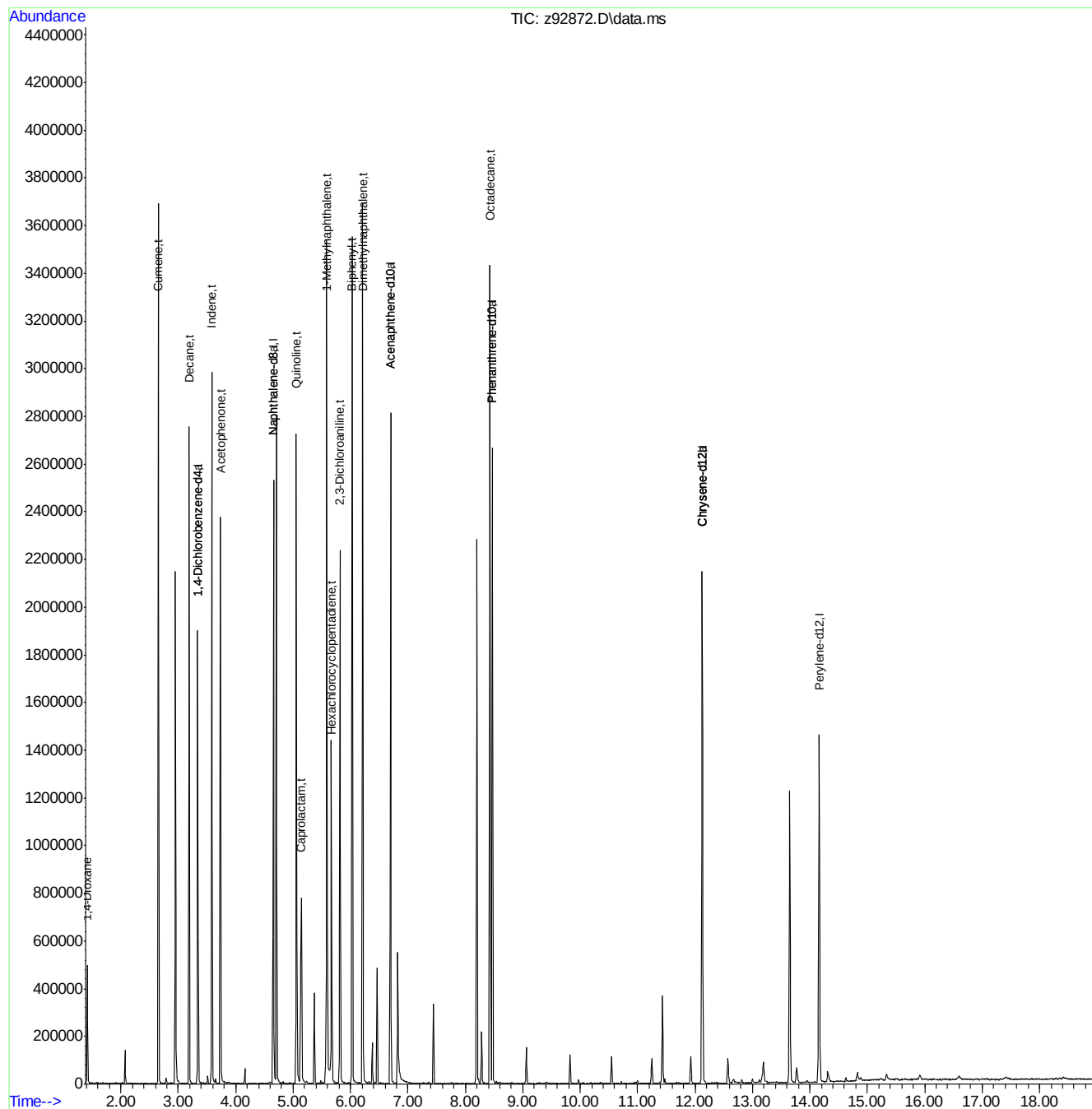
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.342	152	241897	40.00	ppb	0.00
24) Naphthalene-d8	4.657	136	950282	40.00	ppb	0.00
47) Acenaphthene-d10	6.697	164	542238	40.00	ppb	0.00
69) Phenanthrene-d10	8.471	188	904372	40.00	ppb	0.00
83) Chrysene-d12	12.125	240	854220	40.00	ppb	0.00
92) Perylene-d12	14.160	264	620614	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	3.342	152	241897	40.00	ppb	0.00
104) Phenanthrene-d10a	8.471	188	904372	40.00	ppb	0.00
107) Chrysene-d12a	12.125	240	854220	40.00	ppb	0.00
110) Acenaphthene-d10a	6.697	164	542238	40.00	ppb	0.00
112) Naphthalene-d8a	4.657	136	950282	40.00	ppb	0.00
114) Chrysene-d12b	12.125	240	854220	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
2) 1,4-Dioxane	1.419	88	93541	59.07	ppb	96
6) Indene	3.588	116	704848	50.93	ppb	97
7) Cumene	2.653	105	960370	50.55	ppb	99
13) Decane	3.187	43	434994	47.74	ppb	95
18) Acetophenone	3.738	105	578401	47.46	ppb	99
27) Quinoline	5.057	129	814608	48.62	ppb	99
40) 2,3-Dichloroaniline	5.821	161	397179	43.80	ppb	98
41) Caprolactam	5.143	55	179293	42.72	ppb	97
45) 1-Methylnaphthalene	5.586	141	706888	47.50	ppb	96
46) Dimethylnaphthalene	6.211	156	764123	48.45	ppb	98
48) Hexachlorocyclopentadiene	5.672	237	186769	54.04	ppb	97
53) Biphenyl	6.030	154	1031492	53.11	ppb	98
82) Octadecane	8.428	57	557912	53.15	ppb	92

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4615\
Data File : z92872.D
Acq On : 24 Jun 2014 4:23 pm
Operator : ashleyv
Sample : icv4615-50
Misc : op75490,ez4615
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 25 09:54:32 2014
Quant Method : C:\MSDCHEM\1\METHODS\MZ4615.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 25 09:02:03 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4615\
 Data File : z92873.D
 Acq On : 24 Jun 2014 4:49 pm
 Operator : ashleyv
 Sample : icv4615-50
 Misc : op75490,ez4615
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 25 10:06:27 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MZ4615.M
 Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 QLast Update : Tue Jun 24 16:40:33 2014
 Response via : Initial Calibration

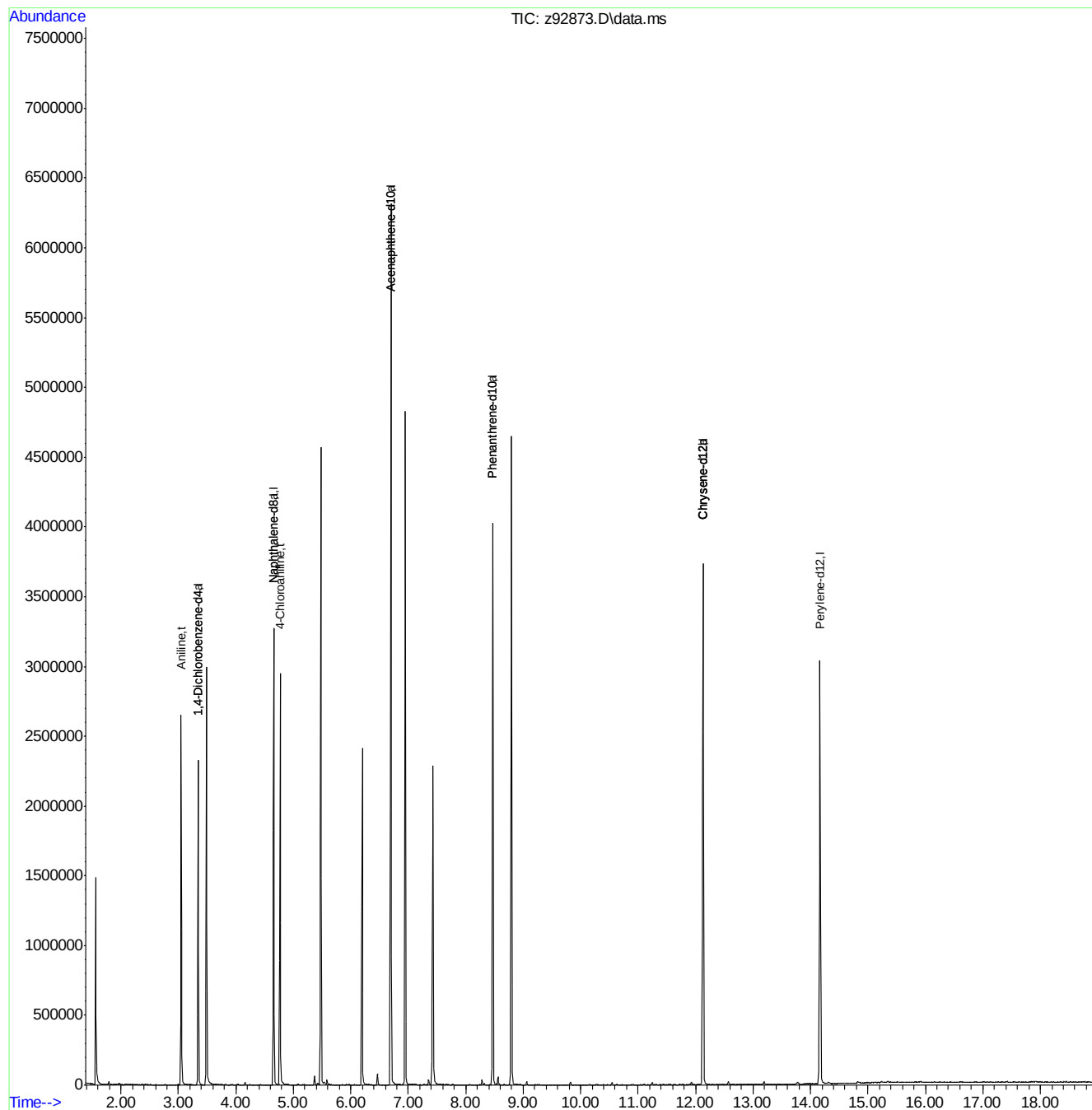
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.342	152	282345	40.00	ppb	0.00
24) Naphthalene-d8	4.657	136	1225424	40.00	ppb	0.00
47) Acenaphthene-d10	6.697	164	837598	40.00	ppb	0.00
69) Phenanthrene-d10	8.471	188	1488314	40.00	ppb	0.00
83) Chrysene-d12	12.130	240	1598196	40.00	ppb	0.00
92) Perylene-d12	14.171	264	1366222	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	3.342	152	282345	40.00	ppb	0.00
104) Phenanthrene-d10a	8.471	188	1488314	40.00	ppb	0.00
107) Chrysene-d12a	12.130	240	1598196	40.00	ppb	0.00
110) Acenaphthene-d10a	6.697	164	837598	40.00	ppb	0.00
112) Naphthalene-d8a	4.657	136	1225424	40.00	ppb	0.00
114) Chrysene-d12b	12.130	240	1598196	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	3.049	93	686366	54.97	ppb	Qvalue # 54
39) 4-Chloroaniline	4.769	127	689063	51.62	ppb	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4615\
Data File : z92873.D
Acq On : 24 Jun 2014 4:49 pm
Operator : ashleyv
Sample : icv4615-50
Misc : op75490,ez4615
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 25 10:06:27 2014
Quant Method : C:\MSDCHEM\1\METHODS\MZ4615.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Tue Jun 24 16:40:33 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4615\
 Data File : z92874.D
 Acq On : 24 Jun 2014 5:16 pm
 Operator : ashleyv
 Sample : icv4615-50
 Misc : op75490,ez4615
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 25 10:07:57 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MZ4615.M
 Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 QLast Update : Wed Jun 25 09:02:03 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.342	152	293305	40.00	ppb	0.00
24) Naphthalene-d8	4.657	136	1149440	40.00	ppb	0.00
47) Acenaphthene-d10	6.697	164	670419	40.00	ppb	0.00
69) Phenanthrene-d10	8.471	188	1136516	40.00	ppb	0.00
83) Chrysene-d12	12.125	240	994853	40.00	ppb	0.00
92) Perylene-d12	14.160	264	817244	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	3.342	152	293305	40.00	ppb	0.00
104) Phenanthrene-d10a	8.471	188	1136516	40.00	ppb	0.00
107) Chrysene-d12a	12.125	240	994853	40.00	ppb	0.00
110) Acenaphthene-d10a	6.697	164	670419	40.00	ppb	0.00
112) Naphthalene-d8a	4.657	136	1149440	40.00	ppb	0.00
114) Chrysene-d12b	12.125	240	994853	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	2.295	112	355752	47.66	ppb	0.00
Spiked Amount 50.000			Recovery	=	95.32%	
8) Phenol-d5	3.033	99	456386	43.23	ppb	0.00
Spiked Amount 50.000			Recovery	=	86.46%	
25) Nitrobenzene-d5	3.893	82	512507	48.86	ppb	0.00
Spiked Amount 50.000			Recovery	=	97.72%	
51) 2-Fluorobiphenyl	5.923	172	996090	50.58	ppb	0.00
Spiked Amount 50.000			Recovery	=	101.16%	
73) 2,4,6-Tribromophenol	7.648	330	145729	45.98	ppb	0.00
Spiked Amount 50.000			Recovery	=	91.96%	
86) Terphenyl-d14	10.629	244	1056537	55.81	ppb	0.00
Spiked Amount 50.000			Recovery	=	111.62%	
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

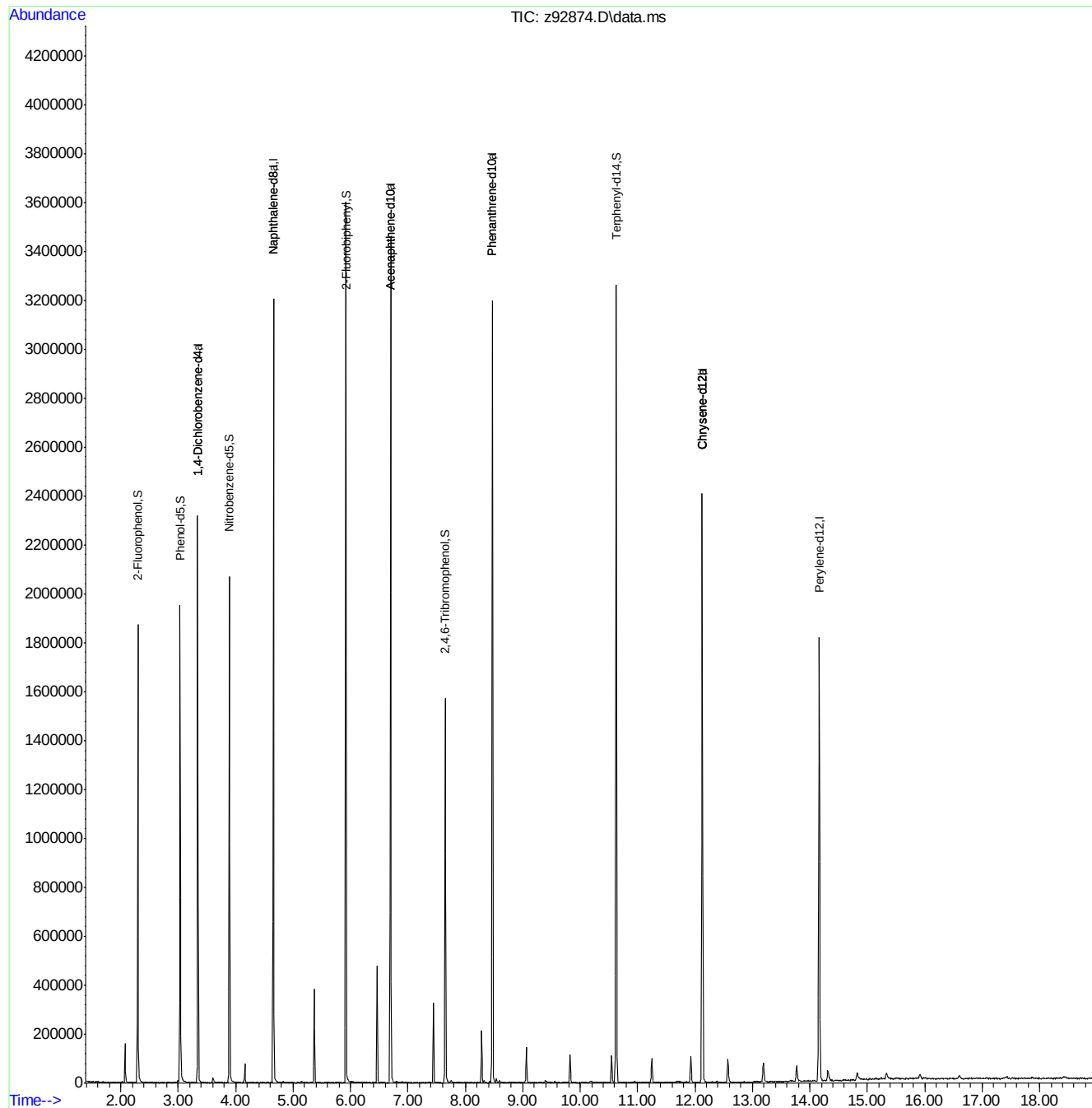
9.6.133

9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4615\
Data File : z92874.D
Acq On : 24 Jun 2014 5:16 pm
Operator : ashleyv
Sample : icv4615-50
Misc : op75490,ez4615
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 25 10:07:57 2014
Quant Method : C:\MSDCHEM\1\METHODS\MZ4615.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 25 09:02:03 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4615\
 Data File : z92878.D
 Acq On : 24 Jun 2014 5:43 pm
 Operator : ashleyv
 Sample : icv4615-100
 Misc : op75490,ez4615
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 25 10:53:23 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MZ4615.M
 Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 QLast Update : Wed Jun 25 09:02:03 2014
 Response via : Initial Calibration

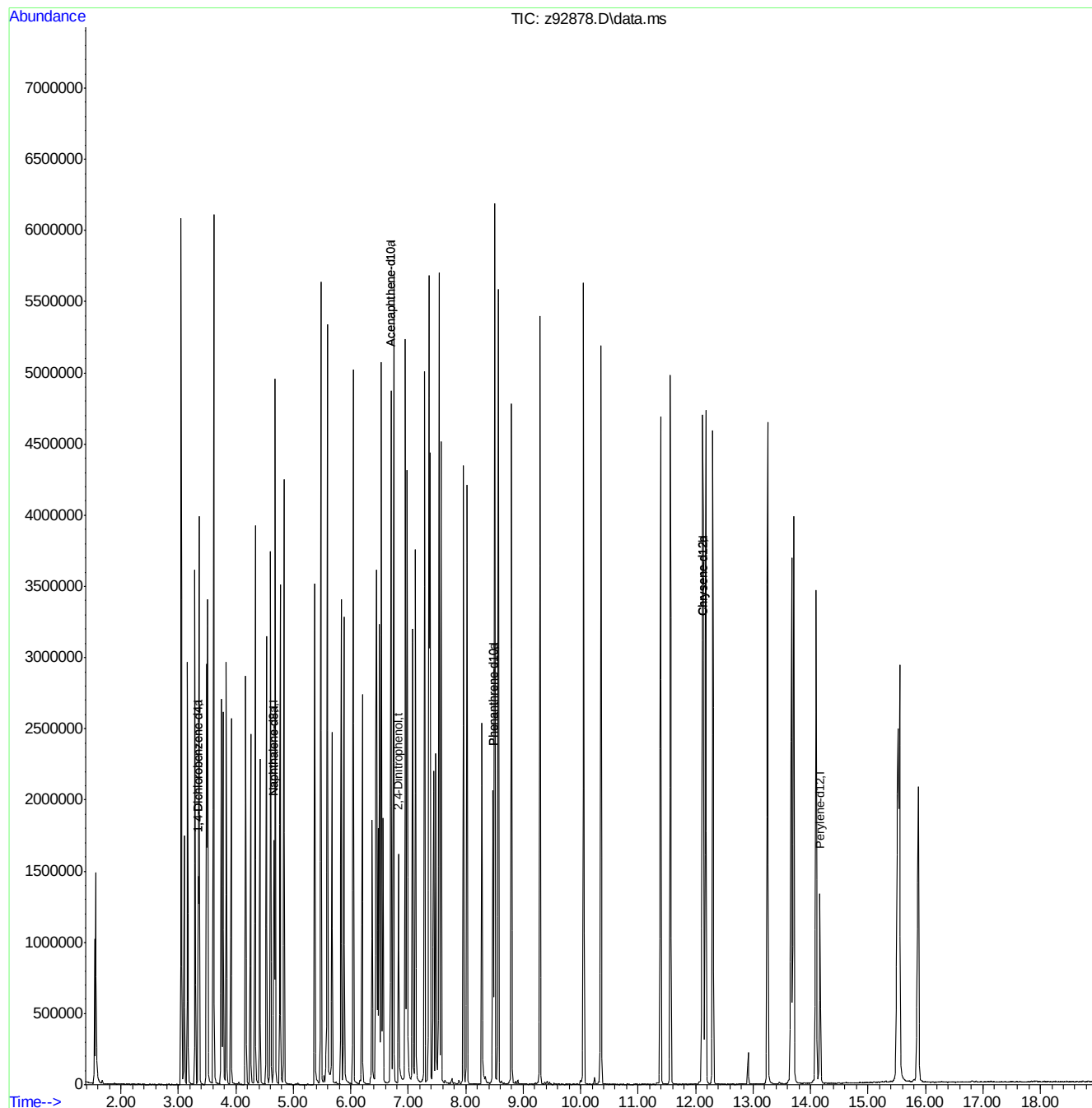
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.342	152	162423	40.00	ppb	0.00
24) Naphthalene-d8	4.662	136	637751	40.00	ppb	0.00
47) Acenaphthene-d10	6.702	164	445880	40.00	ppb	0.00
69) Phenanthrene-d10	8.476	188	767846	40.00	ppb	0.00
83) Chrysene-d12	12.136	240	785578	40.00	ppb	0.00
92) Perylene-d12	14.166	264	554174	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	3.342	152	162423	40.00	ppb	0.00
104) Phenanthrene-d10a	8.476	188	767846	40.00	ppb	0.00
107) Chrysene-d12a	12.136	240	785578	40.00	ppb	0.00
110) Acenaphthene-d10a	6.702	164	445880	40.00	ppb	0.00
112) Naphthalene-d8a	4.662	136	637751	40.00	ppb	0.00
114) Chrysene-d12b	12.136	240	785578	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						
60) 2,4-Dinitrophenol	6.831	184	183991	95.40	ppb	Qvalue 82

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4615\
Data File : z92878.D
Acq On : 24 Jun 2014 5:43 pm
Operator : ashleyv
Sample : icv4615-100
Misc : op75490,ez4615
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 25 10:53:23 2014
Quant Method : C:\MSDCHEM\1\METHODS\MZ4615.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 25 09:02:03 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4640\
 Data File : z93535.D
 Acq On : 11 Jul 2014 10:37 pm
 Operator : andrews1
 Sample : cc4615-25
 Misc : op76211,ez4640
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 12 14:34:50 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MZ4615.M
 Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 QLast Update : Fri Jul 11 08:30:32 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.101	152	152624	40.00	ppb	-0.03
24) Naphthalene-d8	4.399	136	616733	40.00	ppb	-0.03
47) Acenaphthene-d10	6.424	164	395504	40.00	ppb	-0.03
69) Phenanthrene-d10	8.192	188	651149	40.00	ppb	-0.03
83) Chrysene-d12	11.782	240	662959	40.00	ppb	-0.03
92) Perylene-d12	13.807	264	495541	40.00	ppb	-0.03
102) 1,4-Dichlorobenzene-d4a	3.101	152	152624	40.00	ppb	-0.03
104) Phenanthrene-d10a	8.192	188	651149	40.00	ppb	-0.03
106) Chrysene-d12a	11.782	240	662959	40.00	ppb	-0.03
108) Acenaphthene-d10a	6.424	164	395504	40.00	ppb	-0.03
110) Naphthalene-d8a	4.399	136	616733	40.00	ppb	-0.03
112) Chrysene-d12b	11.782	240	662959	40.00	ppb	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	2.086	112	88705	22.84	ppb	-0.03
Spiked Amount 50.000			Recovery	=	45.68%	
8) Phenol-d5	2.813	99	129430	23.56	ppb	-0.02
Spiked Amount 50.000			Recovery	=	47.12%	
25) Nitrobenzene-d5	3.646	82	147593	26.22	ppb	-0.03
Spiked Amount 50.000			Recovery	=	52.44%	
51) 2-Fluorobiphenyl	5.660	172	286977	24.70	ppb	-0.03
Spiked Amount 50.000			Recovery	=	49.40%	
73) 2,4,6-Tribromophenol	7.375	330	47123	25.95	ppb	-0.03
Spiked Amount 50.000			Recovery	=	51.90%	
86) Terphenyl-d14	10.302	244	313909	24.88	ppb	-0.03
Spiked Amount 50.000			Recovery	=	49.76%	
Target Compounds						
2) 1,4-Dioxane	1.253	88	26892	27.99	ppb	Qvalue 97
3) Pyridine	1.392	79	72542	22.90	ppb	86
4) N-Nitrosodimethylamine	1.376	74	42489	23.25	ppb	# 59
6) Indene	3.347	116	205163	23.50	ppb	97
7) Cumene	2.433	105	290518	24.24	ppb	95
9) Phenol	2.823	94	140745	22.08	ppb	75
10) Aniline	2.818	93	143426	21.25	ppb	95
11) bis(2-Chloroethyl)ether	2.871	93	88492	21.33	ppb	95
12) 2-Chlorophenol	2.925	128	120752	23.46	ppb	95
13) Decane	2.957	43	152231	26.48	ppb	89
14) 1,3-Dichlorobenzene	3.053	146	142762	24.29	ppb	98
15) 1,4-Dichlorobenzene	3.117	146	148228	24.28	ppb	97
16) Benzyl alcohol	3.251	108	78699	22.94	ppb	82
17) 1,2-Dichlorobenzene	3.261	146	139282	24.15	ppb	93
18) Acetophenone	3.496	105	184102	23.94	ppb	93
19) 2-Methylphenol	3.379	108	107052	23.61	ppb	99
20) 2,2'-oxybis(1-Chloropr...	3.374	121	36673	21.71	ppb	# 83
21) 3&4-Methylphenol	3.539	108	111642	23.15	ppb	92
22) n-Nitroso-di-n-propyla...	3.502	70	88953	22.90	ppb	76
23) Hexachloroethane	3.587	201	55149	25.20	ppb	92
26) Nitrobenzene	3.667	77	149399	25.32	ppb	93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4640\
 Data File : z93535.D
 Acq On : 11 Jul 2014 10:37 pm
 Operator : andrews1
 Sample : cc4615-25
 Misc : op76211,ez4640
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 12 14:34:50 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MZ4615.M
 Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 QLast Update : Fri Jul 11 08:30:32 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
27) Quinoline	4.805	129	259229	23.84	ppb	97
28) Isophorone	3.918	82	238955	24.48	ppb	92
29) 2-Nitrophenol	4.004	139	74529	25.43	ppb #	64
30) 2,4-Dimethylphenol	4.089	107	126609	24.59	ppb	99
31) Benzoic Acid	4.255	105	103598m	24.93	ppb	
32) bis(2-Chloroethoxy)met...	4.170	93	119663	23.31	ppb	99
33) 2,4-Dichlorophenol	4.282	162	107273	24.34	ppb	96
34) 2,6-Dichlorophenol	4.517	162	109432	24.52	ppb	96
35) 1,3,5-Trichlorobenzene	4.009	180	140500	25.92	ppb	98
36) 1,2,4-Trichlorobenzene	4.346	180	127353	24.92	ppb	97
37) 1,2,3-Trichlorobenzene	4.592	180	133185	25.96	ppb	93
38) Naphthalene	4.421	128	385796	24.27	ppb	99
39) 4-Chloroaniline	4.517	127	163158	24.28	ppb	93
40) 2,3-Dichloroaniline	5.558	161	143825	24.44	ppb	95
41) Caprolactam	4.907	55	62208	22.84	ppb	95
42) Hexachlorobutadiene	4.581	225	87320	26.69	ppb	97
43) 4-Chloro-3-methylphenol	5.126	107	123999	24.75	ppb	92
44) 2-Methylnaphthalene	5.211	141	230937	24.17	ppb	92
45) 1-Methylnaphthalene	5.323	141	232440	24.07	ppb	92
46) Dimethylnaphthalene	5.948	156	247422	24.17	ppb	98
48) Hexachlorocyclopentadiene	5.409	237	114841	47.17	ppb	97
49) 2,4,6-Trichlorophenol	5.575	196	86686	26.27	ppb	93
50) 2,4,5-Trichlorophenol	5.633	196	90821	25.01	ppb	99
52) 2-Chloronaphthalene	5.772	162	260354	24.28	ppb	90
53) Biphenyl	5.767	154	353048	24.92	ppb	98
54) 2-Nitroaniline	5.932	65	106548	28.11	ppb	87
55) Dimethylphthalate	6.168	163	298171	24.17	ppb	99
56) Acenaphthylene	6.253	152	418173	24.21	ppb	98
57) 2,6-Dinitrotoluene	6.232	165	66060	24.99	ppb	83
58) 3-Nitroaniline	6.429	138	80455	25.32	ppb	89
59) Acenaphthene	6.461	153	257512	24.08	ppb	99
60) 2,4-Dinitrophenol	6.574	184	61921	40.62	ppb #	62
61) 4-Nitrophenol	6.734	109	68142	30.33	ppb #	76
62) Dibenzofuran	6.675	168	357746	23.60	ppb	90
63) 2,4-Dinitrotoluene	6.718	165	93289	24.90	ppb	85
64) 2,3,4,6-Tetrachlorophenol	6.857	232	74585	24.29	ppb	94
65) Diethylphthalate	7.017	149	344446	25.74	ppb	98
66) Fluorene	7.081	166	297068	23.90	ppb	97
67) 4-Chlorophenyl-phenyle...	7.102	204	132767	23.58	ppb	88
68) 4-Nitroaniline	7.161	138	71412	23.11	ppb #	72
70) 4,6-Dinitro-2-methylph...	7.209	198	48488	22.48	ppb	86
71) n-Nitrosodiphenylamine	7.257	169	193184	24.58	ppb	98
72) 1,2-Diphenylhydrazine	7.295	77	351266	28.26	ppb	98
74) 4-Bromophenyl-phenylether	7.685	248	82894	24.97	ppb	94
75) Hexachlorobenzene	7.743	284	100359	24.20	ppb	85
76) Pentachlorophenol	8.011	266	109901	47.25	ppb	97
77) Phenanthrene	8.219	178	429145	24.11	ppb	98
78) Anthracene	8.278	178	429648	24.31	ppb	99
79) Carbazole	8.507	167	397136	24.03	ppb	98
80) Di-n-butylphthalate	9.004	149	558692	25.69	ppb	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4640\
 Data File : z93535.D
 Acq On : 11 Jul 2014 10:37 pm
 Operator : andrews1
 Sample : cc4615-25
 Misc : op76211,ez4640
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 12 14:34:50 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MZ4615.M
 Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 QLast Update : Fri Jul 11 08:30:32 2014
 Response via : Initial Calibration

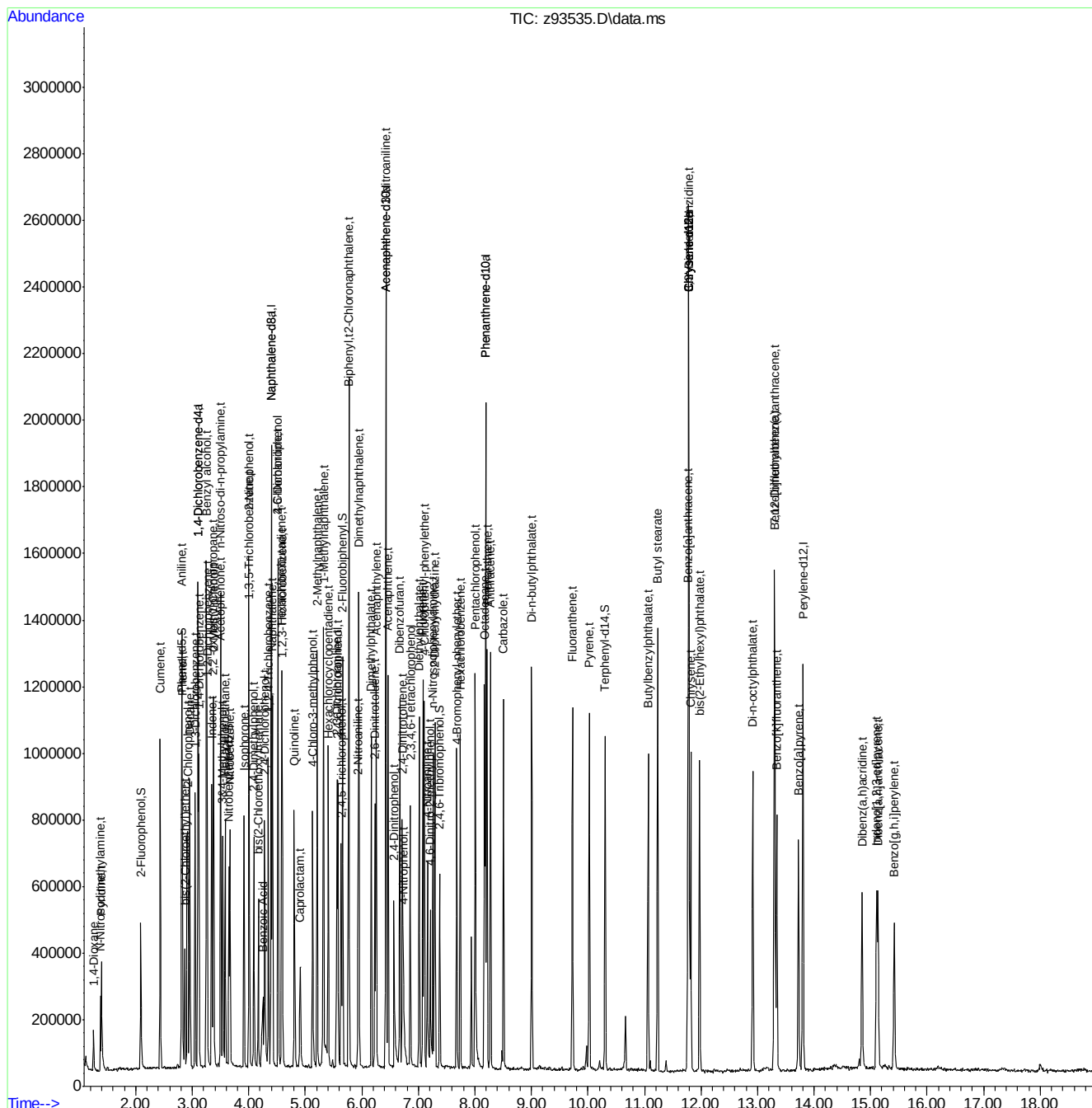
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
81) Fluoranthene	9.725	202	444105	22.86	ppb	98
82) Octadecane	8.171	57	194017	25.67	ppb	84
84) Pyrene	10.025	202	466187	24.90	ppb	99
85) Butyl stearate	11.232	56	189261	26.87	ppb	88
87) Butylbenzylphthalate	11.066	149	246630	26.62	ppb	97
88) Benzo[a]anthracene	11.772	228	422631	23.51	ppb	100
89) 3,3'-Dichlorobenzidine	11.788	252	159938	23.06	ppb	94
90) Chrysene	11.820	228	363328	24.12	ppb	99
91) bis(2-Ethylhexyl)phtha...	11.975	149	308665	26.81	ppb	95
93) Di-n-octylphthalate	12.920	149	536054	26.78	ppb	94
94) Benzo[b]fluoranthene	13.305	252	392048	24.59	ppb	99
95) Benzo[k]fluoranthene	13.342	252	340899	23.70	ppb	100
96) Benzo[a]pyrene	13.727	252	321204	24.02	ppb	99
97) Indeno[1,2,3-cd]pyrene	15.110	276	330892	23.51	ppb	94
98) Dibenz(a,h)acridine	14.854	279	251838	23.47	ppb	99
99) Dibenz[a,h]anthracene	15.132	278	264569	23.75	ppb	95
100) 7,12-Dimethylbenz(a)an...	13.299	256	169058	21.79	ppb	95
101) Benzo[g,h,i]perylene	15.420	276	253638	23.45	ppb	96

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4640\
Data File : z93535.D
Acq On : 11 Jul 2014 10:37 pm
Operator : andrews1
Sample : cc4615-25
Misc : op76211,ez4640
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 12 14:34:50 2014
Quant Method : C:\MSDCHEM\1\METHODS\MZ4615.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Fri Jul 11 08:30:32 2014
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: EZ4640-CC4615

Method: SW846 8270D

Lab FileID: Z93535.D

Analyst approved: 07/12/14 15:13 Kristi Schollenberger

Injection Time: 07/11/14 22:37

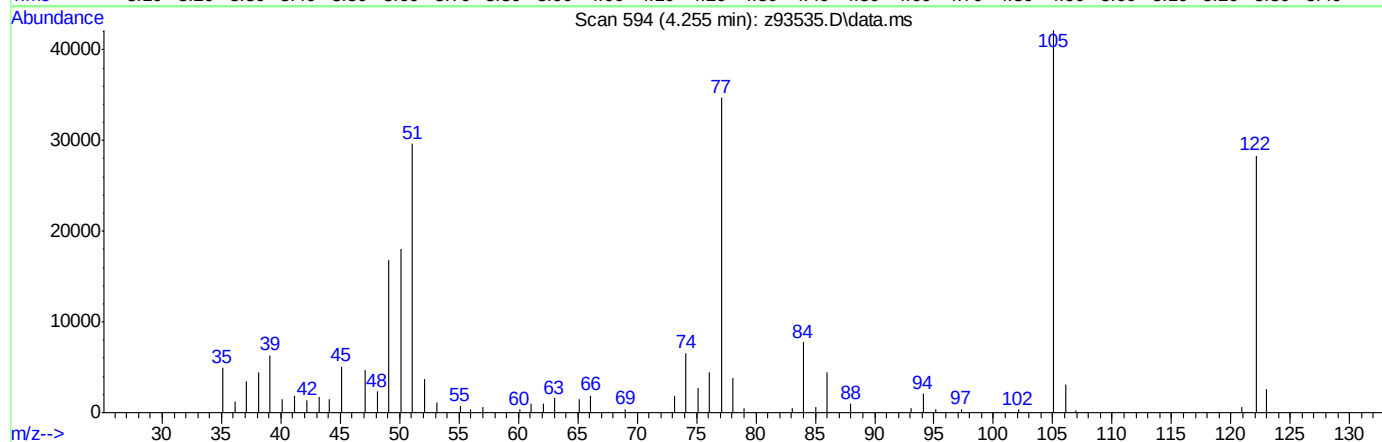
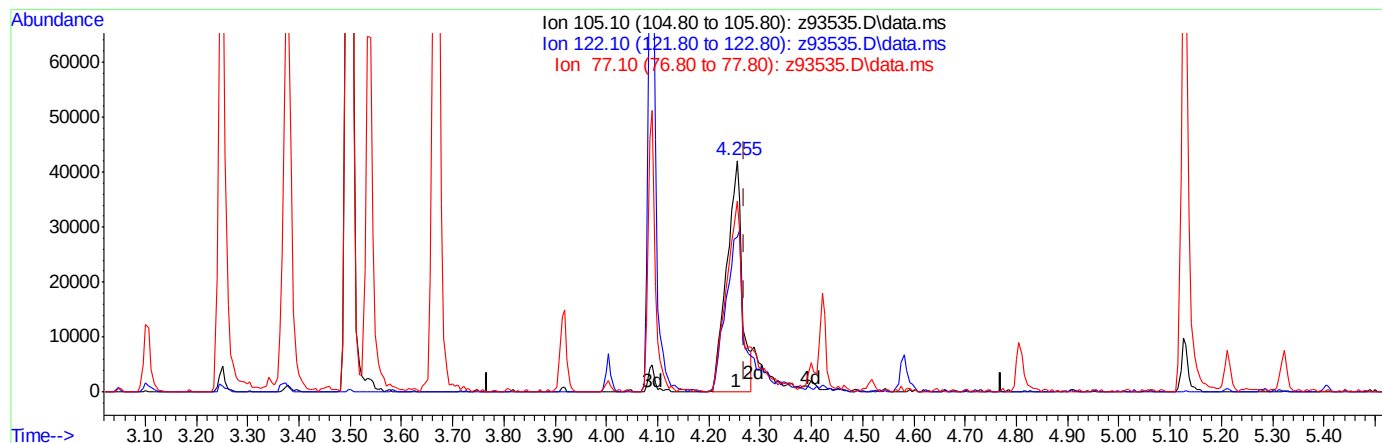
Supervisor approved: 07/12/14 22:51 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic acid	65-85-0		4.25	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez4640\
Data File : z93535.D
Acq On : 11 Jul 2014 10:37 pm
Operator : andrews1
Sample : cc4615-25
Misc : op76211,ez4640
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 11 22:55:58 2014
Quant Method : C:\MSDCHEM\1\METHODS\MZ4615.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Fri Jul 11 08:30:32 2014
Response via : Initial Calibration



(31) Benzoic Acid

4.255min (-0.015) 21.05ppb

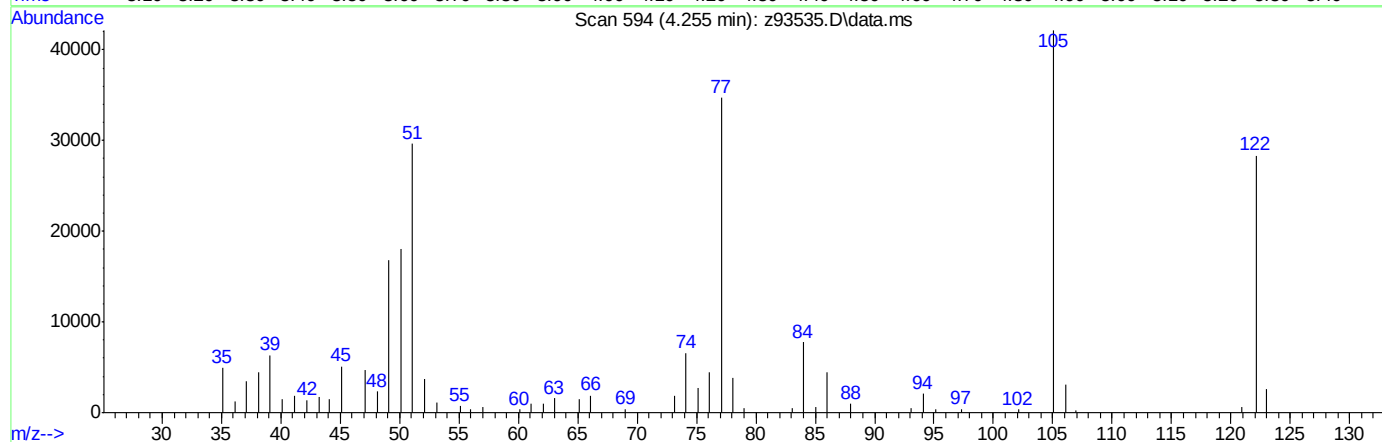
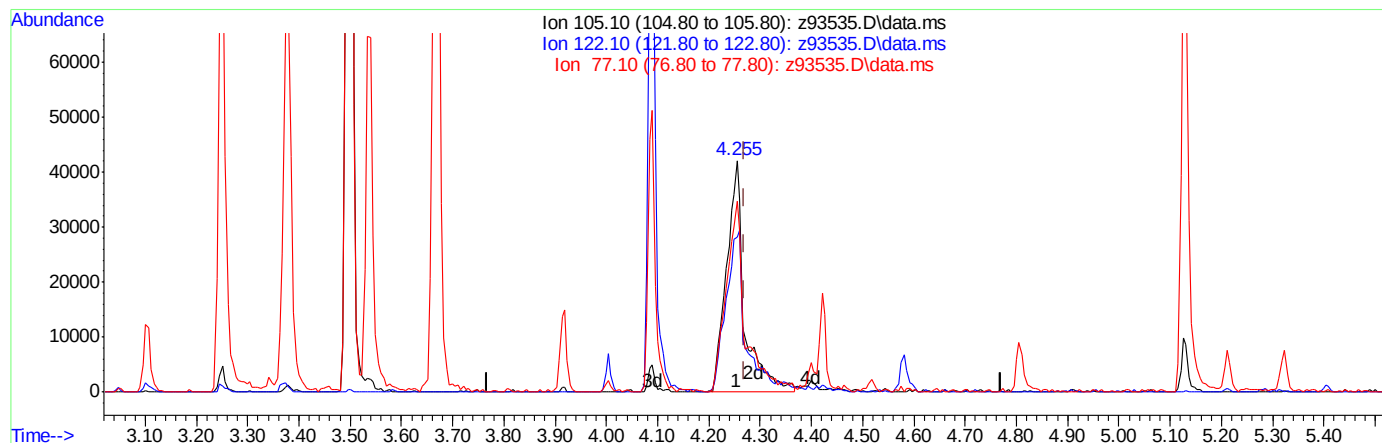
response 87477

Ion	Exp%	Act%
105.10	100	100
122.10	69.00	71.87
77.10	35.20	80.54#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez4640\
Data File : z93535.D
Acq On : 11 Jul 2014 10:37 pm
Operator : andrews1
Sample : cc4615-25
Misc : op76211,ez4640
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 11 22:55:58 2014
Quant Method : C:\MSDCHEM\1\METHODS\MZ4615.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Fri Jul 11 08:30:32 2014
Response via : Initial Calibration



(31) Benzoic Acid

4.255min (-0.015) 24.93ppb m

response 103598

Ion	Exp%	Act%
105.10	100	100
122.10	69.00	60.68
77.10	35.20	68.00#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4640\
 Data File : z93536.D
 Acq On : 11 Jul 2014 11:02 pm
 Operator : andrews1
 Sample : cc4614-25
 Misc : op76211,ez4640
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 12 14:39:02 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MZ4615.M
 Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 QLast Update : Sat Jul 12 14:38:41 2014
 Response via : Initial Calibration

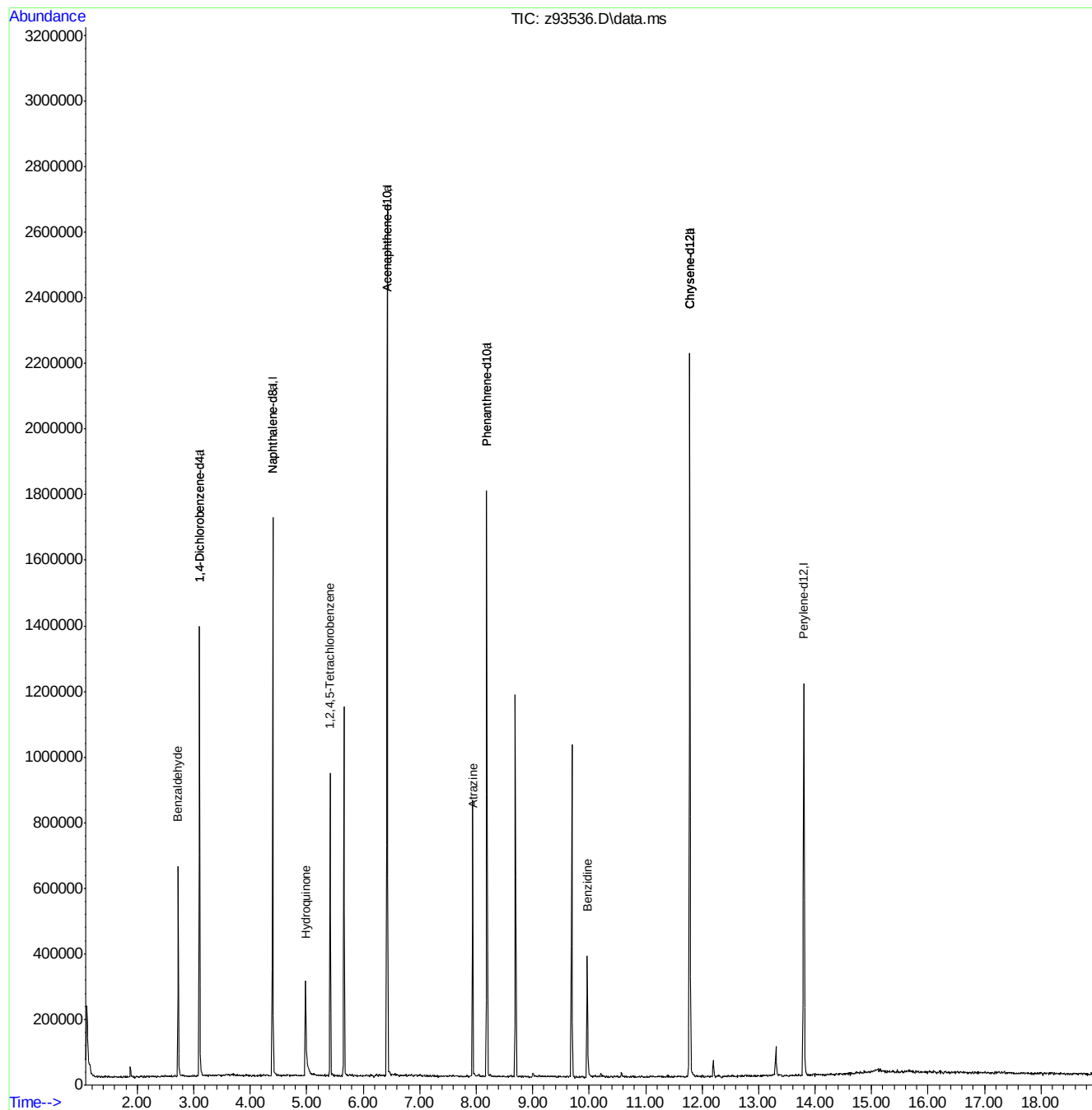
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.101	152	145451	40.00	ppb	0.00
24) Naphthalene-d8	4.399	136	579229	40.00	ppb	0.00
47) Acenaphthene-d10	6.424	164	377917	40.00	ppb	0.00
69) Phenanthrene-d10	8.187	188	609951	40.00	ppb	0.00
83) Chrysene-d12	11.782	240	654659	40.00	ppb	0.00
92) Perylene-d12	13.802	264	526630	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	3.101	152	145451	40.00	ppb	0.00
104) Phenanthrene-d10a	8.187	188	609951	40.00	ppb	0.00
106) Chrysene-d12a	11.782	240	654659	40.00	ppb	0.00
108) Acenaphthene-d10a	6.424	164	377917	40.00	ppb	0.00
110) Naphthalene-d8a	4.399	136	579229	40.00	ppb	0.00
112) Chrysene-d12b	11.782	240	654659	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%	
Target Compounds						
103) Benzaldehyde	2.722	105	83303	20.61	ppb	Qvalue # 78
105) Atrazine	7.941	215	39689	24.08	ppb	88
107) Benzidine	9.966	184	142523	13.40	ppb	97
109) 1,2,4,5-Tetrachloroben...	5.414	216	117088	20.98	ppb	99
111) Hydroquinone	4.982	110	109149	25.14	ppb	88

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4640\
Data File : z93536.D
Acq On : 11 Jul 2014 11:02 pm
Operator : andrews1
Sample : cc4614-25
Misc : op76211, ez4640
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 12 14:39:02 2014
Quant Method : C:\MSDCHEM\1\METHODS\MZ4615.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Sat Jul 12 14:38:41 2014
Response via : Initial Calibration





SEMI-VOLATILE by GCMS ANALYSIS LOG

Batch ID: E2P1583Date: 06-27-2014Analyst Signature: EH

Standard Data		
Lot #	Description	Conc.

Standard Data		
Lot #	Description	Conc.
SV141322	119 QFTPP	50 ppm
CK2933	Internal Std	4000 ppm
CK774	Qum (H ₂ O)	—

Columns: RX5MS30mx-25mmx-25µMethod 8270 | 625Initial Cal. Method MAP1583Injection 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: rlhDate: 7-1-14

R	Data File	Sample ID	Ext. Batch	Test	M T X	ALS #	Dilutio n.	L +	I S	S U	Status (Data)	Comments
	2P37929	QFTPP			W	1					not using	51↓, reject
	37930	QFTPP			W	1					↓	51↓, return
	37931	QFTPP			W	1					↓	51↓, return
	37932	DF1NP			W	1					OK	10:37am
	37933	ic1583-100		B104	W	2					OK	SV141419-32A
	37934	ic1583-1				3					OK	-33C
	37935	ic1583-2				4					OK	-33D
	37936	ic1583-80				5					OK	-32B
	37937	ic1583-50				6					OK	-32C
	37938	ic1583-25				7					OK	-32D
	37939	ic1583-10				8					OK	-32F
	37940	ic1583-5				9					OK	-32E

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.

83

All 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



SEMI-VOLATILE by GCMS ANALYSIS LOG

Batch ID: E2P1584Date: 06/26/2014Analyst Signature: elt

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV141419	OTTP	50ppm
CK12933	Internal Std	1000ppm
02774	OCM (H ₂ O)	-

Columns: RTXMS630umx.25umx.2Method: 8270/625Initial Cal. Method: M2P1583Injection 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: eltDate: 7-1-14

R	Data File	Sample ID	Ext. Batch	Test	M T X	ALS #	Dilution	L +	I S	S U	Status (Data)	Comments
	2P37941	OTTP			W	7					not using	TCPT,
	37942	IC1584-100		TC142	W	2	1000				OK	SV141419-34A
	37943	IC1584-50			W	3	11				OK	-37B
	37944	IC1584-25				4	12				OK	-37A
	37945	IC1584-80				13					OK	-34B
	37946	IC1584-10				14					OK	-34E
	37947	IC1584-5				15					OK	-34F
	37948	IC1584-2				16					OK	-34G
	37949	IC1584-1				17					OK	-34H
	37950	ICV1584-50		310#1	W	18					OK	OP141177-118
	37951	ICV1584-50		310#2		19					OK	-110
	37951A	ICV1584-50										
	37952	ICV1584-50		ABO Sem		20					OK	-117
	37953	ICV1584-50		Ambiline		21					OK	-111
	37954	ICV1584-50	OK	Acid Sp		22					OK	-125
	37954A	ICV1584-50										
	37955	ICV1584-50		Benzal.		23					OK	SV141419-44A
	37955A	ICV1584-50										
	37956	ICV1584-50		H ₂ O		24					OK	OP141362-101
	37957	OTTP				1					OK	3:27 pm run after 2P37941

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.

85

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: 06-30-2014

Analyst Signature: CEH

[illegible]

Standard Data		
Lot #	Description	Conc.
SV141862	119 DTPP	80ppm
CK2933	internal std	400pp
QK794	accu (std)	—

Columns: PTCmsi30ux at 1100x 21

Method 8270/621

Initial Cal. Method H2P1583

Injection Volume: 1 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: _____

Date: 7-2-14

[illegible]

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.

85

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

ey, Date: 1/16/2006



ACCUTEST.

SEMI-VOLATILE by GCMS ANALYSIS LOG

Batch ID: E2P1594

Date: 7-5-14

Analyst Signature: [Signature]

Standard Data		
Lot #	Description	Conc.

Standard Data		
Lot #	Description	Conc.
5413249	DETPP	50ppm
5414419 52	BNA	↓
32	TQ 42	
62933	BS	400ppm
76774	DCM	(H.C.)

Columns: RTX 5ms 30m 0.5um 15m

Method 82701625

Initial Cal. Method m2p 1533

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: [Signature]

Date: 7-10-2014

R	Data File	Sample ID	Ext. Batch	Test	M T X	ALS #	Dilution n.	L +	I S	S U	Status (Data)	Comments
L	Zp 381 57	DETPP			W	1					OK	PCPA reinject
	158	DETPP			W	1					OK	11:27am
L	159	CE1583-50				2					OK	no injection turret error
	160	CE1584-50				3					OK	not using
L	161	CE1584-50				3					OK	
	162	BNA 1ver.				4					wrong	Bottle injected
	163	BNA 1ver.				5					OK	
L	164	Op76077-mbl	76077	ABW+	S	6		+	/	/	OK	
	165	-BSI				7			/	/	OK	2nd injection 1600 1600 1600
L	166	Op75731A-mbl	75731A	EPH PAH	S	8			/	/	OK	
	167	-BSI				9			/	/	OK	
	168	J368981-8R				10			/	/	OK	
	169	J368982-1R				11			/	/	OK	1:5 R.R
	170	J368988-9R				12			/	/	OK	
	171	-10R				13			/	/	OK	
	172	J370491-1	760771	ABTLC 201	S	14		+	/	/	OK	1:4 R.R
	173	-2				15		+	/	/	OK	1:5 R.R

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.

117

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



ACCUTEST.

SEMI-VOLATILE by GCMS ANALYSIS LOG

Batch ID: E2P1594

Date: 7-5-14

Analyst Signature: KS

Standard Data		
Lot #	Description	Conc.

Standard Data		
Lot #	Description	Conc.
	<u>Exp 10</u>	

Columns: RTX SIMS 30m x 0.25mm

Method 8271625

Initial Cal. Method 14 2p1553

Injection Volume: 6ul

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: AW

Date: 7-10-2014

R	Data File	Sample ID	Ext. Batch	Test	M T X	ALS #	Dilution n.	L +	I S	S U	Status (Data)	Comments
L	2p 35174	JB 70517-1	76077	ABTCL20	S	16			/	/	OK	
L	175	-2				17			/	/	OK	
L	176	JB 70549-1		ABSL		18			/	/	OK	
L	177	-2				19			/	/	OK	
L	178	JB 70550-1		PAH		20			/	/	OK	RRIS
L	179	-2				21			/	/	OK	RRIS
L	180	JB 69705-3A		BTCL20		22		+	/	/	OK	
L	181	JB 70528-1A		ABTCL20T		23		+	/	/	OK	+4RR
L	182	JB 70584-1		ABTCL1T		24		+	/	/	OK	
L	183	JB 70585-1				25		+	/	/	OK	
L	184	Op 76077-ms		ABN		26			/	/	OK	
L	185	-msd				27			/	/	OK	
L	186	JB 69809-1	75952	ABTCL20	S	28			/	/	OK	Run before
L	187	-7				29			/	/	OK	2p
L	188	-8				30	2		/	/	OK	
L	189	JB 69813-2	76123	ABTCL20	S	31			/	/	OK	RRIS sent to RR for ch. 6/11
L	190	Op 76041-ms	76041	AAW	S	32			/	/	OK	10:33pm 6/11 org.

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.

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Form: OR015-05

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Batch ID: E6P357

Date: 6/26/14

Analyst Signature: [Signature]

Standard Data		
Lot #	Description	Conc.

Standard Data		
Lot #	Description	Conc.
SV141362119	DFTPP	50ppm
OK 2933	Internal Standard	4000ppm
OK 74	DCM (HW)	

Columns: RTX5MSI 30m x .25mm x .25µm

Method 8270/625

Initial Cal. Method

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: [Signature]

Date: 7/1/14

R	Data File	Sample ID	Ext. Batch	Test	M T X	ALS #	Dilutio n.	L +	I S	S U	Status (Data)	Comments
	6P8266	DFTPP				1					NH	442↑
	6P8267	IC357-25				4					OK	
	8268	DFTPP				1					OK	
	8269	IC357-2				2					Not used	Dicetylphosphate ↑
	8270	-75				4					↓	
	8271	DCM				3					↓	
	8272	DFTPP			W	1					OK	
	8273	IC357-100		BNA		2					OK	SV14141923A
	8274	IC357-1				3					OK	SV14141923E
	8275	IC357-80				4					OK	SV14141923B
	8276	IC357-10				5					OK	SV14141923C
	8277	IC357-50				6					OK	SV14141946A
	8278	IC357-5				7					OK	SV14141923F
	8279	IC357-2				8					OK	SV14141923D
	8280	IC357-25				9					OK	SV14141946B

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.

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All strikeouts must be initialed, dated and reason code applied as follows:

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Form: OR015-05

Rev. Date: 1/16/2006



SEMI-VOLATILE by GCMS ANALYSIS LOG

Batch ID: E6P358Date: 6/26/14Analyst Signature: [Signature]

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV141362119	DETPP	50ppm

Columns: RTKMSI 30m x 25 mm x .25 µmMethod: 8270/625Initial Cal. Method: MUP357Injection 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: 7/1/14

R	Data File	Sample ID	Ext. Batch	Test	M T X	ALS #	Dilution n.	L +	I S	S U	Status (Data)	Comments
	6P8281	DETPP		TC142	W	1					OK	
	8282	IC358-100		TC142		10					OK	SV141419-34A
	8283	IC358-1				11					OK	SV141419-34H
	8284	IC358-80				12					OK	SV141419-34B
	8285	IC358-10				13					OK	SV141419-34E
	8286	IC358-50				14					OK	SV141419-34C
	8287	IC358-5				15					OK	SV141419-34F
	8288	IC358-2				16					OK	SV141419-34G
	8289	IC358-25				17					OK	SV141419-34D
	8290	ICV357-50		Acid Spike		18					OK	OP141177125
	8291	ICV357-50		BN1		19					OK	OP141177118
	8292	ICV357-50		BN2		20					OK	OP141177110
	8293	ICV357-50		ABN Surrogate		21					OK	OP141177117
	8294	ICV357-50		Benzidine		22					OK	SV14141944A
	8295	ICV357-50		HQ		23					OK	SV141362101
	8296	ICV357-50		Aniline		24					OK	OP141177111

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.

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All strikeouts must be initialed, dated and reason code applied as follows:

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Form: OR015-05

Rev. Date: 1/16/2006



ACCUTEST.

SEMI-VOLATILE by GCMS ANALYSIS LOG

Batch ID: E6P 367

Date: 7-2-14

Analyst Signature: JS

Standard Data

Standard Data

Lot #	Description	Conc.

Lot #	Description	Conc.
SUN1362119	DETPP	50ppm
SUN1149 48	BON	25ppm
404	TCL42	0
CK2935	IS	4000ppm
D K 724	DOE	(H2O)

Columns: RTX 5msi 30m 25m

Method 82761625

Initial Cal. Method M6P 357

Injection Volume: 10

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: 7-3-14

R	Data File	Sample ID	Ext. Batch	Test	M T X	ALS #	Dilution n.	L +	I S	S U	Status (Data)	Comments
6P	8431	DETPP			W	1					OK	Reinject 7CPM
	8432	DETPP				1					OK	Reinject 7CPM
	8433	DETPP				1					OK	9:40pm
	8434	CC357-25				2					OK	
	8435	CC358-25				3					OK	
	8436	acid ver.		SUN1362119		4					OK	
	8437	Op76123-mbl	76123	ABPPLT	W	5			1	1	OK	
	8438	-BS1				6			1	1	OK	
	8439	BSP				7			1	1	OK	
	8440	Op76077-mbl		ABN ⁺		8			1	1	OK	
	8441	-BS1				9			1	1	OK	
	8442	Op76123-mbl	76123	ABN ⁺	S	10			1	1	OK	
	8443	JB 69563-1520		ABTCLUT		11			1	1	OK	R.R 1:20
	8444	JB 70545-1	76077	STAR	S	12			1	1	OK	
	8445	-2				13			1	1	OK	
	8446	JB 70290-2	76123	PAH		14			1	1	OK	Reinject 12.15 ch
	8447	JB 70723-1		Parma + Indena		15			1	1	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.

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All strikeouts must be initialed, dated and reason code applied as follows:

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Form: OR015-05

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SEMI-VOLATILE by GCMS ANALYSIS LOG

 Batch ID: E6P 364

 Date: 7-2-14

 Analyst Signature: AS

Standard Data		
Lot #	Description	Conc.

Standard Data		
Lot #	Description	Conc.
	<u>Supp 133</u>	

 Columns: Agilent 30m x 0.25mm i.d. HP-5MS

 Method: 8060625

 Initial Cal. Method: 146P 357

 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: [Signature]

 Date: 7-3-14

Data File	Sample ID	Ext. Batch	Test	M T X	ALS #	Dilutio n.	L +	I S	S U	Status (Data)	Comments
<u>6P 8449</u>	<u>JB 70540-1</u>	<u>76077</u>	<u>PAN</u>	<u>S</u>	<u>16</u>					<u>[initials]</u>	
<u>8450</u>	<u>JB 70551-1</u>		<u>ASPPPL</u>		<u>17</u>					<u>[initials]</u>	
<u>8451</u>	<u>JB 70552-1</u>		<u>PAN</u>		<u>18</u>					<u>[initials]</u>	
<u>8452</u>	<u>JB 70686-2</u>	<u>76123</u>	<u>BSL</u>	<u>S</u>	<u>19</u>					<u>[initials]</u>	<u>Peak comparison</u>
<u>8453</u>	<u>-3</u>				<u>20</u>					<u>[initials]</u>	
<u>8454</u>	<u>-4</u>				<u>21</u>					<u>[initials]</u>	
<u>8455</u>	<u>-5</u>				<u>22</u>					<u>[initials]</u>	
<u>8456</u>	<u>-6</u>				<u>23</u>					<u>[initials]</u>	
<u>8457</u>	<u>-7</u>				<u>24</u>					<u>[initials]</u>	
<u>8458</u>	<u>-8</u>				<u>25</u>					<u>[initials]</u>	
<u>8459</u>	<u>JB 70694-1</u>	<u>76128</u>	<u>ASPPPL</u>	<u>W</u>	<u>26</u>					<u>[initials]</u>	<u>9.16um</u>

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Sample volume/weight used and final volumes refer to extraction log.

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Form: OR015-05
 Rev. Date: 1/16/2006

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SEMI-VOLATILE by GCMS ANALYSIS LOG

 Batch ID: ELP368

 Date: 7-8-14

 Analyst Signature: AR
Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV141362119	DFTPP	50ppm
456	BNA	25ppm
406	TCL42	↓
CK2933	SS	400ppm
DK774	DM	✓

 Columns: RTx5MSi30MX-25mmx-25um

 Method 8270/625

 Initial Cal. Method MG357

 Injection Volume: 1.0ul

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: AR

 Date: 7/10/14

Data File	Sample ID	Ext. Batch	Test	M T X	ALS #	Dilution n.	L +	I S	S U	Status (Data)	Comments
66535	DFTPP				1					failed	687 PCP tailing re-inject
536	DFTPP				1					failed	PCP tailing cc, new wool
537	DFTPP				1					failed	PCP tailing diff liner
538	DFTPP				1					failed	PCP tailing re-inject
539	DFTPP				1					failed	PCP tailing Bake re-inject
540	DFTPP				1					OK	
541	Q357-25		BNA		2					OK	606 61↑ 30↓ 7.4-micro cresol ↓
542	CL358-25		TCL42		3					OK	
543	acid verif.				4					OK	SV141362-55 10ppm
544	op76142-mbl	76142			5					OK	
545	j670278-5	76070	ABSL		6	5				OK	
546	j670546-3	76142	ABTCL11	W	7	20				OK	
547	-4				8	20				OK	
548	-5				9	100				OK	
549	-9				10	50				OK	
550	-10				11	1000				OK	RUN 1:2000 For no/Hacker

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:

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Form: OR015-05

Date: 1/16/2006

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**ACCUTEST.**

SEMI-VOLATILE by GCMS ANALYSIS LOG

Batch ID: EF5692Analyst Signature: AMDDate: 6/11/14

Standard Data		
Lot #	Description	Conc.
SV14132133A B&A		50 ppm
-1328		25 ppm
SV14141923A B&A		100 ppm
14141923 B		80 ppm
14141923C (B&I) 14		10 ppm
14141923E		5 ppm

Standard Data		
Lot #	Description	Conc.
SV14132133A DFTOP		50 ppm
SV14141923D B&A		2 ppm
E ↓		1 ppm
CK2933	Internal Std.	1000 ppm
DK547	DCM (4M)	—

Columns: PTV5 MS30M x25mm x25µmMethod: 8270/615Initial Cal. Method: MFS6912Injection Volume: 1 µL

ANO6/11/14

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: 6/12/14

R	Data File	Sample ID	Ext. Batch	Test	M T X	ALS #	Dilution n.	L +	I S	S U	Status (Data)	Comments
	F35905	DFTOP				1					OK	8:23 PM
	35906	IC5692-50		BNA	W	2					OK	
	35907	IC5692-25				3					OK	
	35908	-100				4					OK	
	35909	-80				5					OK	
	35910	-10				6					OK	
	35911	-5				7					OK	
	35912	-2				8					OK	
	35913	-1				9					OK	
	35914											
		ANO6/11/14										

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.

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Form: OR015-05

Rev. Date: 1/16/2006



SEMI-VOLATILE by GCMS ANALYSIS LOG

Batch ID: EF5693Date: 6/12/14Analyst Signature: [Signature]

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV14136219	DF1PP	50ppm
CL2933	Int. Std.	400ppm
DK547	DEM(400)	

Columns: RTX5msi 30mX.25mmX.25umMethod 3270/625Initial Cal. Method MF5692Injection 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: [Signature]Date: 6/13/14

R	Data File	Sample ID	Ext. Batch	Test	M T X	ALS #	Dilutio n.	L +	I S	S U	Status (Data)	Comments
	F35914	DF1PP				1					<u>OK</u>	8:50am
	35915	ICV5693-50		TCL42		2					<u>OK</u>	SV141362-38-A
	35916	ICV5693-25				3					<u>OK</u>	SV141362-80D
	35917	ICV5693-100				4					<u>OK</u>	SV141362-136A
	35918	-80				5					<u>OK</u>	136B
	35919	-10				6					<u>OK</u>	-136E
	35920	-5				7					<u>OK</u>	-136F
	35921	-2				8					<u>OK</u>	-136H
	35922	-1				9					<u>OK</u>	-136G
	35923	ICV5692-50		Acid		10					<u>OK</u>	Reject not OP114-1177-88
	35924	-50		Ball		11					<u>OK</u>	OP114-1177-17
	35925	-50		Ball2		12					<u>OK</u>	OP114-1177-42
	35926	-50		Surr		13					<u>OK</u>	OP14-1177-33
	35927	-50		Anilme		14					<u>OK</u>	OP14-1177-61
	35928	-50		3rd Benzolme		15					<u>OK</u>	SV114-1362-72R
	35929	ICV5693-50		HQ		16					<u>OK</u>	OP14-1130141

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Sample volume/weight used and final volumes refer to extraction log.

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Form: OR015-05

Rev. Date: 1/16/2006

SEMI-VOLATILE by GCMS ANALYSIS LOG

Batch ID: EF5693

Date: 6/12/14
Standard Data

Analyst Signature: [Signature]

Lot #	Description	Conc.

Lot #	Description	Conc.
SV141362-9	DF1PP	50ppm
242933	Int. Std.	400ppm
DK547	DCM(400)	

Columns: RTX5msi 30mX.25mmX2.0mm

Method 8270/625

Initial Cal. Method MF5692

Injection Volume: 1.0ul

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: 6/13/14

R	Data File	Sample ID	Ext. Batch	Test	M T X	ALS #	Dilutio n.	L +	I S	S U	Status (Data)	Comments
	F35914	DF1PP				1					OK	8:50am
	35915	ICCS693-50		TCL42		2					OK	SV141362-38-A
	35916	ICCS693-25				3					OK	SV141362-80D
	35917	ICCS693-100				4					OK	SV141362-13CA
	35918	-80				5					OK	136B
	35919	-10				6					OK	-136E
	35920	-5				7					OK	-136F
	35921	-2				8					OK	-136H
	35922	-1				9					OK	-136G
	35923	ICVS692-50		Acid		10					Not using	Revised 100+ OP114-1177-88
	35924	-50		Ball		11					OK	OP114-1177-17
	35925	-50		Ball 2		12					OK	OP114-1177-42
	35926	-50		Surr		13					OK	OP14-1177-33
	35927	-50		Anilme		14					OK	OP14-1177-61
	35928	-50		3rd Benzene		15					OK	SV114-1362-72R
	35929	ICVS693-50		HQ		16					Not Run	OP14-1130141

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.

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All strikeouts must be initialed, dated and reason code applied as follows:

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Form: OR015-05
Rev. Date: 1/16/2006

Batch ID: EF5702

Date: 6/18/14

Analyst Signature: AMD

Standard Data

Standard Data

Lot #	Description	Conc.

Lot #	Description	Conc.
SV14136219	DFTPP	50ppm
CK2933	Internal Std.	1000ppm
DK547	DCM(HW)	-

Columns: RTX SSi130mx2.5mmx.25um

Method: 8270/625

Initial Cal. Method: MFS692

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: _____

Date: 6/25/14

Data File	Sample ID	Ext. Batch	Test	M T X	ALS #	Dilutio n.	L +	I S	S U	Status (Data)	Comments
F36117	DFTPP				1					OK	8.02um
18	IC5701-100 AKC 6/18/14		AP9	W	2					OK	SV14136291A
19	-80				3					OK	↓ B
20	IC5701-50				4					OK	SV14136276A
21	IC5701-25				5					OK	↓ B
22	-10				6					OK	SV14136291C
23	-5				7					OK	↓ D
24	-2				8					OK	↓ E
25	-1				9					OK	↓ F not using xln 6/25/14 not needed
26	IC5701-100		AP9SL	W	10					OK	SV14136292A
27	-80				11					OK	↓ B
28	IC5701-50 AKC 6/18/14				12					OK	SV14136264A
29	IC5701-25				13					OK	↓ B
30	-10				14					OK	SV14136292C
31	-5				15					OK	↓ D
32	-2				16					OK	↓ E
33	-1				17					OK	↓ F not using xln 6/25/14 not needed

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.

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All strikeouts must be initialed, dated and reason code applied as follows:

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Form: OR015-05

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SEMI-VOLATILE by GCMS ANALYSIS LOG

 Batch ID: EF5726

 Date: 7/6/2014

 Analyst Signature: AND

Standard Data		
Lot #	Description	Conc.

Standard Data		
Lot #	Description	Conc.
SM136119	DFTDP	50ppm
SM141950	BMA	50ppm
SM445518	TCC42	50ppm
CK2933	Internal Std.	400ppm
DK774	OCM(HW)	-

 Columns: RTX5MSi30mx.75mmx.25um

 Method 8270/625

 Initial Cal. Method MF5692

 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: 7-7-14

R	Data File	Sample ID	Ext. Batch	Test	M T X	ALS #	Dilutio n.	L +	I S	S U	Status (Data)	Comments
	F36783	DFTDP				1					OK	1.250m
	36784	CC5692-50		BMA	W	2					RR	RR different lot#
	36785	CC5692-50		BMA	W	2					OK	SM141950
	36786	CC5693-50		TCC42	W	3					OK	
	36787	CC5702-50		AP9	W	4					OK	
	36788	CC5702-50		AP9SL	W	5					OK	
	36789	OP76072-MBI	76072-1	AB675	W	6		X	1		OK	
	790	-BSI				7			1		OK	
	791	-BSI3				8			1		OK	
	792	OP76142-MBS	76142-1	AB570	W	9		X	1		OK	
	793	-BSI				10			1		OK	
	794	-ms				11			1		OK	
	795	-msd				12			1		OK	
	796	JB70546-2		ABTCL11		13			1		OK	Reedant
	797	JB70517-3		ABTCL20		14			1		OK	
	798	-4				15			1		OK	
	799	JB70515-1		ABNTA201		16		X	1		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.

All strikeouts must be initialed, dated and reason code applied as follows:

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Form: OR015-05

Rev. Date: 1/16/2006



ACCUTEST.

SEMI-VOLATILE by GCMS ANALYSIS LOG

Batch ID: EF5726

Date: 7/26/2014

Analyst Signature: AUD

Standard Data		
Lot #	Description	Conc.

Standard Data		
Lot #	Description	Conc.

Columns: RTVSIHSL30mmx5mmx5µm

Method 8270/625

Initial Cal. Method MF5692

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: [Signature]

Date: 7/27/14

R	Data File	Sample ID	Ext. Batch	Test	M T X	ALS #	Dilutio n.	L +	I S	S U	Status (Data)	Comments
	F36800	JB70515-2	76142-1	ABNJTCLH	W	17		X	/	/	OK	
	801	JB70484-5A	76046-2	ABTCLH	S	18			/	/	OK	
	802	JB69563-43	76518-1	ABTCLH	S	19	5	X	/	/	OK	Diluted due to matrix inter
	803	JB70159-1rx	76090-1	ABNJTCLH	W	20		X	/	/	OK	
	804	-3rx		↓		21		X	/	/	OK	
	805	JB70090-1rx		ABNJTCLH		22		X	/	/	OK	
	806	JB70615-1		PAH		23			/	/	OK	
	807	-2		↓		24			/	/	OK	
	808	-3		↓		25			/	/	OK	1:12am
	809	-4		↓		26			/	/	OK	1:40am outside 12 hours
	810	-5		↓		27			/	/	OK	2:09am ↓
	811	0976072ms	76072-1	AB3625	W	28			/	/	OK	(625)
	812	-msd				29			/	/	OK	
	813	JB70341-3		AB3CL+AP9		30			/	/	OK	
	814	JB70328-1		BICU+PAH		31		X	/	/	OK	
	815	JB70275-2		ABPPL		32			/	/	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.

If 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

SEMI-VOLATILE by GCMS ANALYSIS LOG

 Batch ID: EZ4614

 Date: C-23-14

 Analyst Signature: AR

Standard Data		
Lot #	Description	Conc.

Standard Data		
Lot #	Description	Conc.
SU14172-119	DFTPP	50ppm
CK2433	IS	400ppm
DK547	DCM	

 Columns: Hx5msi30mmx-25mmx-25um

 Method 8270/625

 Initial Cal. Method M24614 ⁴⁶¹³ _{the 6/23/14}

 Injection Volume: 1.0ul

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: 6-25-14

Data File	Sample ID	Ext. Batch	Test	M T X	ALS #	Dilutio n.	L +	I S	S U	Status (Data)	Comments
292842	DFTPP				1					OK	
843	ic4614-100		TCL42		11					OK	SU141414-34A
844	-80				12					OK	34B
845	ic4614-50				13					OK	34C
846	ic4614-25				14					OK	34D
847	-10				15					OK	34E
848	-5				16					OK	34F
849	-2				17					OK	34G
850	-1				18					OK	34H
851	ic4613-50		acid		19					not using	RR DNA op/4/1177-125
852	ic4613-50		BN1		20					RR	op/4-1177-77 4799101↑
853	ic4613-50		BN2		21					OK RR 4/13/14 not using	RR, MS-Tetrachlorobenzene op/4/1177-42
854	ic4613-50		aniline		22					not using	op/4/1177-61
855	ic4613-50		benz.		23					OK	op/4-1177-33 72B
856	ic4613-50		HQ		24					OK	RR 6/18/14 SU141362-72B 33
857	ic4613-50		SURR		25					not using	RR DNA SU141362-101

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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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

SEMI-VOLATILE by GCMS ANALYSIS LOG

 Batch ID: EZ4615

 Date: 6-24-14

 Analyst Signature: AR

Standard Data		
Lot #	Description	Conc.

Standard Data		
Lot #	Description	Conc.
SW1662-119	DFTPP	50ppm
CK2433	IS	400ppm
DK547	DCM / H/W	

 Columns: RTx5MS 30mmx25µm 25AM

 Method 8270/625

 Initial Cal. Method MZ46135
Also 6124

 Injection Volume: 1.0ul

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: 6-25-14

R	Data File	Sample ID	Ext. Batch	Test	M T X	ALS #	Dilution	L +	I S	S U	Status (Data)	Comments
	<u>Z 92858</u>	<u>DFTPP</u>				<u>1</u>					<u>not used</u>	
	<u>859</u>	<u>ICV4613-50</u>		<u>BN w/o anilines</u>		<u>2</u>					<u>↓</u>	<u>op141177-118</u>
	<u>860</u>	<u>ICV4613-50</u>		<u>BN1</u>		<u>3</u>					<u>↓</u>	<u>op141177-17 areas ↓</u>
	<u>861</u>	<u>DFTPP</u>				<u>1</u>					<u>OK</u>	<u>new seal, more wool, bake</u>
	<u>862</u>	<u>ICV4615-50</u>		<u>BN A</u>		<u>4</u>					<u>OK</u>	
	<u>863</u>	<u>ICV4615-100</u>				<u>5</u>					<u>OK</u>	
	<u>864</u>	<u>-1</u>				<u>6</u>					<u>OK</u>	
	<u>865</u>	<u>-2</u>				<u>7</u>					<u>OK</u>	
	<u>866</u>	<u>-5</u>				<u>8</u>					<u>OK</u>	
	<u>867</u>	<u>-10</u>				<u>9</u>					<u>OK</u>	
	<u>868</u>	<u>-25</u>				<u>10</u>					<u>OK</u>	
	<u>869</u>	<u>-80</u>				<u>11</u>					<u>OK</u>	
	<u>870</u>	<u>ICV4615-50</u>		<u>BN1</u>		<u>12</u>					<u>OK</u>	<u>op14-1177-17</u>
	<u>871</u>	<u>ICV4615-50</u>		<u>acid</u>		<u>13</u>					<u>OK</u>	<u>60 area ↓ -125</u>
	<u>872</u>	<u>ICV4615-50</u>		<u>BN2</u>		<u>14</u>					<u>OK</u>	<u>-42</u>
	<u>873</u>	<u>ICV4615-50</u>		<u>anilines</u>		<u>15</u>					<u>OK</u>	<u>-61</u>
	<u>874</u>	<u>ICV4615-50</u>		<u>SURR</u>		<u>16</u>					<u>OK</u>	<u>-33</u>

ATX = 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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All strikeouts must be initialed, dated and reason code applied as follows:

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Form: OR015-05

Rev. Date: 1/16/2006

SEMI-VOLATILE by GCMS ANALYSIS LOG

Batch ID: EZ 4640

Date: 7-11-14

Analyst Signature: AS

Standard Data

Standard Data

Lot #	Description	Conc.

Lot #	Description	Conc.
S14136214	DFPP	50ppm
S141419 45	BAZ	25ppm
40	TCLH2	25ppm
C1624933	IS	400ppm
D16774	DCM	(GWS)

Columns: RXMS3000 2500 2500

Method 82701625

Initial Cal. Method M24615

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: _____

Date: 7/11/14

Data File	Sample ID	Ext. Batch	Test	M T X	ALS #	Dilutio n.	L +	I S	S U	Status (Data)	Comments
293534	DFPP				1					d	10:25pm
535	CE 445-25				2					d	
536	CE 4014-25				3					d	Residual
537	Op76254-mb1	76204	ABW	S	4		X	/	/	d	
538	BS1				5			/	/	d	
539	Op76077mb1	76077-1	AGW	S	6		X	/	/	d	
540	JB70550-1		PAW		7	5		/	/	d	
541	JB 71000-1	76289	ASTCLP		8			/	/	d	
542	JB70889-2k	76137	L		9			/	/	d	
543	JB70689-2A	76137	ASTCLP ⁺	S	10	2	X	/	/	d	
544	JB 70781-6	76157	ASTCLP ⁺	S	11		X	/	/	d	di
545	JB70988-7A	76211	ASTCLP ⁺	S	12		X	/	/	d	di
546	Op76284-ms	76254	AAW	S	13			/	/	d	di
547	-MSD				14			/	/	d	di
548	JB70309-1				15			/	/	d	di
549	-2				16			/	/	d	di
550	-3				17			/	/	d	di

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.

If 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

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Batch ID: E24640

Date: 7-11-14

Analyst Signature: AS

[illegible][illegible]

Columns: RTx5msl 30u, 25u, 25u

Method 82701625

Initial Cal. Method $m \approx 4615$

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.

Supervisor Signature: _____

Date: 7-17-12

[illegible]

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.

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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

Date started: 02/01/14
 Date finished: 02/01/14

Time started: 8:00 am
 Time finished: 11:30

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	Color	Vol (ml)	Comments
						Y	N			
JB70517-1	MS	1	MS	35.0				yellow	1	
JB70517-2	MSD	1	Soil	33.5				yellow	1	
JB70517-3	MSD	1	Soil	31.3				yellow	1	
JB70517-4	MS	1	MS	35.0				clear	1	
JB70517-5	MSD	1	MS							
JB70517-6	MSD	1	MS							
JB70517-7	MSD	1	MS							
JB70517-8	MSD	1	MS							
JB70517-9	MSD	1	MS							
JB70517-10	MSD	1	MS							
JB70517-11	MSD	1	MS							
JB70517-12	MSD	1	MS							
JB70517-13	MSD	1	MS							
JB70517-14	MSD	1	MS							
JB70517-15	MSD	1	MS							
JB70517-16	MSD	1	MS							
JB70517-17	MSD	1	MS							
JB70517-18	MSD	1	MS							
JB70517-19	MSD	1	MS							
JB70517-20	MSD	1	MS							
JB70517-21	MSD	1	MS							
JB70517-22	MSD	1	MS							
JB70517-23	MSD	1	MS							
JB70517-24	MSD	1	MS							
JB70517-25	MSD	1	MS							
JB70517-26	MSD	1	MS							
JB70517-27	MSD	1	MS							
JB70517-28	MSD	1	MS							
JB70517-29	MSD	1	MS							
JB70517-30	MSD	1	MS							
JB70517-31	MSD	1	MS							
JB70517-32	MSD	1	MS							
JB70517-33	MSD	1	MS							
JB70517-34	MSD	1	MS							
JB70517-35	MSD	1	MS							
JB70517-36	MSD	1	MS							
JB70517-37	MSD	1	MS							
JB70517-38	MSD	1	MS							
JB70517-39	MSD	1	MS							
JB70517-40	MSD	1	MS							
JB70517-41	MSD	1	MS							
JB70517-42	MSD	1	MS							
JB70517-43	MSD	1	MS							
JB70517-44	MSD	1	MS							
JB70517-45	MSD	1	MS							
JB70517-46	MSD	1	MS							
JB70517-47	MSD	1	MS							
JB70517-48	MSD	1	MS							
JB70517-49	MSD	1	MS							
JB70517-50	MSD	1	MS							
JB70517-51	MSD	1	MS							
JB70517-52	MSD	1	MS							
JB70517-53	MSD	1	MS							
JB70517-54	MSD	1	MS							
JB70517-55	MSD	1	MS							
JB70517-56	MSD	1	MS							
JB70517-57	MSD	1	MS							
JB70517-58	MSD	1	MS							
JB70517-59	MSD	1	MS							
JB70517-60	MSD	1	MS							
JB70517-61	MSD	1	MS							
JB70517-62	MSD	1	MS							
JB70517-63	MSD	1	MS							
JB70517-64	MSD	1	MS							
JB70517-65	MSD	1	MS							
JB70517-66	MSD	1	MS							
JB70517-67	MSD	1	MS							
JB70517-68	MSD	1	MS							
JB70517-69	MSD	1	MS							
JB70517-70	MSD	1	MS							
JB70517-71	MSD	1	MS							
JB70517-72	MSD	1	MS							
JB70517-73	MSD	1	MS							
JB70517-74	MSD	1	MS							
JB70517-75	MSD	1	MS							
JB70517-76	MSD	1	MS							
JB70517-77	MSD	1	MS							
JB70517-78	MSD	1	MS							
JB70517-79	MSD	1	MS							
JB70517-80	MSD	1	MS							
JB70517-81	MSD	1	MS							
JB70517-82	MSD	1	MS							
JB70517-83	MSD	1	MS							
JB70517-84	MSD	1	MS							
JB70517-85	MSD	1	MS							
JB70517-86	MSD	1	MS							
JB70517-87	MSD	1	MS							
JB70517-88	MSD	1	MS							
JB70517-89	MSD	1	MS							
JB70517-90	MSD	1	MS							
JB70517-91	MSD	1	MS							
JB70517-92	MSD	1	MS							
JB70517-93	MSD	1	MS							
JB70517-94	MSD	1	MS							
JB70517-95	MSD	1	MS							
JB70517-96	MSD	1	MS							
JB70517-97	MSD	1	MS							
JB70517-98	MSD	1	MS							
JB70517-99	MSD	1	MS							
JB70517-100	MSD	1	MS							

Comments:
 Date: 04/09/13

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See back for instructions

EXT-AQ

Date Started: 7/3/14
Time Started: 7:00 AM
Date Finished: 7/3/14
Time Finished: 2:45 PM

Acid Base/Neutrals Extraction Log - Liquid

EXTRACT METHOD (check one): Sep Funnel SW 3510C / EPA 625

Cont Liq-Liq SW3520C

BATCH # HS-0102 RACK# 29

Ext By: NRM/BS/MS
Conc by: SG
Viald by: RM

Relinquished by:

Accepted by: *[Signature]*
Supervisor review: 7/2/14

Sample #	Analysis Type	Sample Bottle #	pH	Sample Description	Sample Volume (ml) Oil Wt (g)	pH Adjust (ml)	Final Extract	Misc.	Comments
MB 1	ABN			DZ H ₂ O	1000	1	1	1	
BS 1				DZ H ₂ O	1000	1	1	1	
MS 2		2		Yellow	500	1	1	1	
MSD 1		2		Yellow	500	1	1	1	
BS 18	ABN			DZ H ₂ O	1000	1	1	1	
MS 18		2		Yellow	455	1	1	1	
MSD A		2		Yellow	455	1	1	1	
ABN 17-3	ABN	1		Clear	900	1	1	1	
A		1		Clear	970	1	1	1	
BS 2052-1	ABN	1		Yellow	1000	1	1	1	
BS 2052-1		2		Clear	1000	1	1	1	
2		1		Clear	1000	1	1	1	
3		2		Clear	990	1	1	1	
4		1		Clear	990	1	1	1	
6		1		Clear	910	1	1	1	
BS 2056-2	ABN	1		Yellow	1000	1	1	1	
3		2		Grey	1000	1	1	1	
4		2		Yellow	1000	1	1	1	
5		2		Yellow	1000	1	1	1	
6		2		Yellow	1000	1	1	1	
7		2		Yellow	1000	1	1	1	
8		2		Yellow	1000	1	1	1	
9		2		Grey	1000	1	1	1	
10		1		Yellow	845	1	1	1	
11		1		Yellow	1000	1	1	1	
12		1		Yellow	1000	1	1	1	
13		1		Yellow	1000	1	1	1	
14		1		Yellow	1000	1	1	1	
15		1		Yellow	1000	1	1	1	
16		1		Yellow	1000	1	1	1	
17		1		Yellow	1000	1	1	1	
18	ABN	1		Clear	1000	1	1	1	
19	ABN	2		Yellow	1000	1	1	1	
20	ABN	2		Yellow	1000	1	1	1	

COMMENTS:

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See back for instructions

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: JB70517

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

File ID: SC070114M1.ICP Date Analyzed: 07/01/14 Methods: EPA 200.7, SW846 6010C
Analyst: ND Run ID: MA34361
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
09:50	MA34361-STD1	1		STDA
09:56	MA34361-STD2	1		STDB
10:02	ZZZZZZ	1		
10:08	ZZZZZZ	1		
10:22	MA34361-ICV1	1		
10:32	MA34361-ICB1	1		
10:37	MA34361-ICCV1	1		
10:56	MA34361-CCB1	1		
11:03	MA34361-CRI1	1		
11:09	MA34361-CRID1	1		see rerun
11:15	MA34361-CRIA1	1		
11:22	MA34361-CRID2	1		
11:28	MA34361-ICSA1	1		
11:34	MA34361-ICSAB1	1		
11:40	ZZZZZZ	1		
11:46	ZZZZZZ	1		
11:52	ZZZZZZ	1		
11:57	MA34361-CCV1	1		
12:03	MA34361-CCB2	1		
12:09	ZZZZZZ	1		
12:15	MP80355-LC1	1		
12:21	ZZZZZZ	1		
12:27	ZZZZZZ	1		
12:33	ZZZZZZ	1		
12:39	MP80375-MB1	1		
12:46	ZZZZZZ	5		
12:52	ZZZZZZ	1		
12:58	ZZZZZZ	1		
13:04	MA34361-CCV2	1		
13:10	MA34361-CCB3	1		
13:16	ZZZZZZ	1		
13:22	ZZZZZZ	1		
13:28	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB70517

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

File ID: SC070114M1.ICP Date Analyzed: 07/01/14 Methods: EPA 200.7, SW846 6010C
Analyst: ND Run ID: MA34361
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
13:34	ZZZZZZ	1		
13:40	ZZZZZZ	1		
13:46	ZZZZZZ	1		
13:52	ZZZZZZ	1		
13:58	ZZZZZZ	1		
14:04	ZZZZZZ	1		
14:10	MA34361-CCV3	1		
14:16	MA34361-CCB4	1		
14:22	ZZZZZZ	1		
14:28	ZZZZZZ	1		
14:34	ZZZZZZ	5		
14:40	ZZZZZZ	5		
14:46	ZZZZZZ	1		
14:52	MP80360-S2	1		
14:58	JB70255-1	1		(sample used for QC only; not part of login JB70517)
15:04	MP80360-SD1	5		analytical problem.see rerun
15:11	MP80360-S3	1		tl-ve
15:17	MA34361-CCV4	1		
15:22	MA34361-CCB5	1		
15:28	MP80360-S4	1		tl-ve
15:34	JB70255-1F	1		(sample used for QC only; not part of login JB70517)
15:40	MP80360-SD2	5		tl -ve
15:46	MP80360-SD1	5		
15:52	ZZZZZZ	1		
15:58	ZZZZZZ	1		
16:04	ZZZZZZ	1		
16:10	ZZZZZZ	1		
16:16	ZZZZZZ	1		
16:23	MA34361-CCV5	1		
16:29	MA34361-CCB6	1		
16:36	ZZZZZZ	1		
16:43	MA34361-CRID3	1		
16:50	MA34361-CRI2	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB70517

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

File ID: SC070114M1.ICP Date Analyzed: 07/01/14 Methods: EPA 200.7, SW846 6010C
Analyst: ND Run ID: MA34361
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
16:56	MA34361-CRIA2	1		
17:02	MA34361-CRID4	1		
17:08	MA34361-ICSA2	1		
17:14	MA34361-ICSAB2	1		
17:20	MA34361-CCV6	1		
17:26	MA34361-CCB7	1		
17:32	MP80402-MB1	1		
17:38	MP80402-B1	1		
17:44	MP80402-LC1	1		
17:49	MP80402-S1	1		
17:55	MP80402-S2	1		
18:01	JB70173-1F	1		(sample used for QC only; not part of login JB70517)
18:07	MP80402-SD1	5		
18:13	ZZZZZZ	1		
18:19	ZZZZZZ	1		
18:25	MA34361-CCV7	1		
18:31	MA34361-CCB8	1		
18:37	ZZZZZZ	1		
18:44	ZZZZZZ	1		
18:50	ZZZZZZ	1		
18:56	ZZZZZZ	1		
19:02	ZZZZZZ	1		
19:08	ZZZZZZ	1		
19:14	ZZZZZZ	1		
19:20	ZZZZZZ	1		
19:27	ZZZZZZ	1		
19:33	MA34361-CCV8	1		
19:38	MA34361-CCB9	1		
19:45	ZZZZZZ	1		
19:50	ZZZZZZ	1		
19:57	ZZZZZZ	1		
20:03	ZZZZZZ	1		
20:09	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB70517

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

File ID: SC070114M1.ICP Date Analyzed: 07/01/14 Methods: EPA 200.7, SW846 6010C
Analyst: ND Run ID: MA34361
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
20:15	ZZZZZZ	1		
20:21	ZZZZZZ	1		
20:27	ZZZZZZ	1		
20:33	ZZZZZZ	1		
20:39	MA34361-CCV9	1		
20:44	MA34361-CCB10	1		
20:51	ZZZZZZ	1		
20:57	ZZZZZZ	1		
21:03	ZZZZZZ	1		
21:09	ZZZZZZ	1		
21:15	MP80365-S1	2		
21:20	MP80365-S2	2		
21:26	JB70340-2	2		(sample used for QC only; not part of login JB70517)
21:32	MP80365-SD1	10		
21:38	ZZZZZZ	5		
21:44	MA34361-CCV10	1		
21:50	MA34361-CCB11	1		
21:56	MA34361-CRID5	1		
22:02	MA34361-CRI3	1		
22:08	MA34361-CRIA3	1		
22:14	MA34361-CRID6	1		
22:21	MA34361-CCV11	1		
22:26	MA34361-CCB12	1		
22:32	ZZZZZZ	2		
22:38	ZZZZZZ	5		
22:44	ZZZZZZ	2		
22:50	ZZZZZZ	2		
22:56	ZZZZZZ	2		
23:02	ZZZZZZ	1		
23:08	MP80408-MB1	1		
23:14	MP80408-LC1	1		
23:20	MP80408-S1	1		
23:26	MA34361-CCV12	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB70517

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

File ID: SC070114M1.ICP Date Analyzed: 07/01/14 Methods: EPA 200.7, SW846 6010C
Analyst: ND Run ID: MA34361
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
23:32	MA34361-CCB13	1		
23:38	MP80408-S2	1		
23:44	JB70452-16	1		(sample used for QC only; not part of login JB70517)
23:50	MP80408-SD1	5		
23:56	MP80408-S3	1		cu high rsd
00:02	JB70452-17	1		(sample used for QC only; not part of login JB70517)
00:08	ZZZZZZ	1		
00:14	ZZZZZZ	1		
00:20	ZZZZZZ	1		
00:26	ZZZZZZ	1		
00:32	ZZZZZZ	1		
00:38	MA34361-CCV13	1		
00:44	MA34361-CCB14	1		
00:50	ZZZZZZ	1		
00:56	ZZZZZZ	1		
01:02	ZZZZZZ	1		
01:08	ZZZZZZ	1		
01:14	ZZZZZZ	1		
01:20	ZZZZZZ	1		
01:26	ZZZZZZ	1		
01:32	ZZZZZZ	1		
01:38	ZZZZZZ	1		
01:44	ZZZZZZ	1		
01:50	MA34361-CCV14	1		
01:56	MA34361-CCB15	1		
02:02	ZZZZZZ	1		
02:08	ZZZZZZ	1		
02:14	ZZZZZZ	1		
02:20	ZZZZZZ	2		
02:26	ZZZZZZ	3		
02:32	ZZZZZZ	3		
02:39	ZZZZZZ	3		
02:45	ZZZZZZ	3		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB70517

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

File ID: SC070114M1.ICP Date Analyzed: 07/01/14 Methods: EPA 200.7, SW846 6010C
Analyst: ND Run ID: MA34361
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
02:51	ZZZZZZ	2		
02:57	ZZZZZZ	3		
03:03	MA34361-CCV15	1		
03:09	MA34361-CCB16	1		
03:15	MA34361-CRI4	1		
03:21	MA34361-CRID7	1		
03:27	MA34361-CRIA4	1		
03:33	MA34361-CCV16	1		
03:39	MA34361-CCB17	1		
03:45	ZZZZZZ	2		
03:51	MP80392-B1	1		high rsd
03:57	MP80392-MB1	1		
04:03	MP80392-S1	1		
04:09	MP80392-S2	1		
04:15	JB70517-1	1		tl hit
04:21	MP80392-SD1	5		
04:27	JB70517-2	1		
----->	Last reportable sample/prep for job JB70517			
04:32	ZZZZZZ	1		
04:38	ZZZZZZ	1		
04:44	MA34361-CCV17	1		
04:50	MA34361-CCB18	1		
04:56	ZZZZZZ	1		
05:02	ZZZZZZ	1		
05:08	ZZZZZZ	1		
05:14	ZZZZZZ	1		
05:20	ZZZZZZ	1		
05:26	ZZZZZZ	1		
05:32	ZZZZZZ	1		
05:38	ZZZZZZ	1		
05:44	ZZZZZZ	1		
05:50	ZZZZZZ	1		
05:56	MA34361-CCV18	1		
06:02	MA34361-CCB19	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB70517

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

File ID: SC070114M1.ICP Date Analyzed: 07/01/14 Methods: EPA 200.7, SW846 6010C
Analyst: ND Run ID: MA34361
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
06:08	ZZZZZZ	1		
06:14	ZZZZZZ	1		
06:20	ZZZZZZ	1		
06:26	ZZZZZZ	1		
06:32	ZZZZZZ	1		
06:38	ZZZZZZ	1		
06:44	MA34361-CCV19	1		
06:50	MA34361-CCB20	1		
06:56	MA34361-CRI5	1		
07:02	MA34361-CRID8	1		
07:08	MA34361-CRIA5	1		
07:14	MA34361-CCV20	1		
07:20	MA34361-CCB21	1		
07:26	ZZZZZZ	1		
07:32	ZZZZZZ	1		
07:38	ZZZZZZ	1		
07:44	ZZZZZZ	1		
07:50	MP80427-MB1	1		
07:56	MP80427-B1	1		
08:02	MP80427-LC1	1		
08:08	ZZZZZZ	1		
08:14	ZZZZZZ	1		
08:20	MA34361-CCV21	1		
08:26	MA34361-CCB22	1		
08:32	ZZZZZZ	1		
08:38	ZZZZZZ	1		
08:44	ZZZZZZ	1		
08:50	ZZZZZZ	1		
08:56	ZZZZZZ	1		
09:02	MP80375-LC3	1		
09:08	MP80375-MB3	1		
09:14	ZZZZZZ	1		
09:20	MA34361-CCV22	1		

----->

Last reportable CCB for job JB70517

10.1
10

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB70517

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

File ID: SC070114M1.ICP Date Analyzed: 07/01/14 Methods: EPA 200.7, SW846 6010C
Analyst: ND Run ID: MA34361
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
09:26	MA34361-CCB23	1		
09:32	MA34361-CRIA6	1		
09:39	MA34361-CRI6	1		
09:45	MA34361-CCV23	1		
09:50	MA34361-CCB24	1		
09:57	ZZZZZ	1		
10:03	ZZZZZ	1		

Refer to raw data for calibration curve and standards.

INTERNAL STANDARD SUMMARY

Login Number: JB70517

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

File ID: SC070114M1.ICP

Date Analyzed: 07/01/14

Methods: EPA 200.7, SW846 6010C

Analyst: ND

Run ID: MA34361

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
09:50	MA34361-STD1	2338 R	67664 R	9582 R	3680 R
09:56	MA34361-STD2	2134	61852	9397	3058
10:02	ZZZZZZ	2206	63879	9390	3211
10:08	ZZZZZZ	2337	67920	9655	3648
10:22	MA34361-ICV1	2222	64303	9558	3218
10:32	MA34361-ICB1	2360	68179	9622	3677
10:37	MA34361-ICCV1	2225	64619	9504	3223
10:56	MA34361-CCB1	2343	68054	9556	3656
11:03	MA34361-CRI1	2312	67606	9711	3567
11:09	MA34361-CRID1	No results reported for the elements associated with this internal standard.			
11:15	MA34361-CRIA1	2339	67544	9571	3626
11:22	MA34361-CRID2	2324	67481	9666	3600
11:28	MA34361-ICSA1	1967	57451	9123	2695
11:34	MA34361-ICSAB1	1980	57549	9090	2711
11:40	ZZZZZZ	2265	66213	9595	3500
11:46	ZZZZZZ	2276	67525	9647	3602
11:52	ZZZZZZ	2225	64714	9594	3200
11:57	MA34361-CCV1	2221	64691	9534	3198
12:03	MA34361-CCB2	2348	68405	9662	3644
12:09	ZZZZZZ	2346	67798	9636	3635
12:15	MP80355-LC1	2307	67318	9846	3526
12:21	ZZZZZZ	2342	67866	9693	3626
12:27	ZZZZZZ	2320	67365	9831	3579
12:33	ZZZZZZ	2011	59768	9546	2973
12:39	MP80375-MB1	2328	67938	9600	3622
12:46	ZZZZZZ	2023	58503	9268	2815
12:52	ZZZZZZ	2339	67671	9738	3640
12:58	ZZZZZZ	2093	59834	9375	2827
13:04	MA34361-CCV2	2206	64370	9539	3177
13:10	MA34361-CCB3	2351	67956	9654	3627
13:16	ZZZZZZ	2245	65076	9774	3106
13:22	ZZZZZZ	1921	54251	9021	2499 !a
13:28	ZZZZZZ	2087	60680	9462	2866

INTERNAL STANDARD SUMMARY

Login Number: JB70517

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

File ID: SC070114M1.ICP Date Analyzed: 07/01/14 Methods: EPA 200.7, SW846 6010C
 Analyst: ND Run ID: MA34361
 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
13:34	ZZZZZZ	2196	63310	9576	3088
13:40	ZZZZZZ	2276	66168	9623	3446
13:46	ZZZZZZ	2255	65809	9612	3399
13:52	ZZZZZZ	2304	62998	9756	3193
13:58	ZZZZZZ	2101	62122	9333	2978
14:04	ZZZZZZ	2343	67775	9616	3646
14:10	MA34361-CCV3	2226	64791	9494	3183
14:16	MA34361-CCB4	2341	67954	9750	3599
14:22	ZZZZZZ	2352	67763	9644	3614
14:28	ZZZZZZ	2346	68424	9868	3648
14:34	ZZZZZZ	2102	62140	9376	2926
14:40	ZZZZZZ	2036	60479	9249	2815
14:46	ZZZZZZ	2334	67732	9748	3612
14:52	MP80360-S2	2216	65143	9797	3210
14:58	JB70255-1	2284	66830	9723	3460
15:04	MP80360-SD1	No results reported for the elements associated with this internal standard.			
15:11	MP80360-S3	2199	64652	9628	3183
15:17	MA34361-CCV4	2216	64674	9475	3162
15:22	MA34361-CCB5	2323	67702	9578	3580
15:28	MP80360-S4	2199	65207	9638	3190
15:34	JB70255-1F	2261	66909	9770	3420
15:40	MP80360-SD2	2311	67240	9600	3544
15:46	MP80360-SD1	2330	67923	9771	3574
15:52	ZZZZZZ	2266	66482	9678	3425
15:58	ZZZZZZ	2255	66272	9714	3396
16:04	ZZZZZZ	2313	67868	9778	3572
16:10	ZZZZZZ	2264	67184	9740	3432
16:16	ZZZZZZ	2339	67721	9773	3610
16:23	MA34361-CCV5	2203	63899	9483	3136
16:29	MA34361-CCB6	2324	67672	9617	3570
16:36	ZZZZZZ	2341	67581	9737	3572
16:43	MA34361-CRID3	2326	66560	9695	3566
16:50	MA34361-CRI2	2298	66853	9601	3501

INTERNAL STANDARD SUMMARY

Login Number: JB70517

Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NYFile ID: SC070114M1.ICP Date Analyzed: 07/01/14 Methods: EPA 200.7, SW846 6010C
Analyst: ND Run ID: MA34361
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
16:56	MA34361-CRIA2	2334	67572	9643	3589
17:02	MA34361-CRID4	2306	67121	9666	3534
17:08	MA34361-ICSA2	1955	56967	9108	2656
17:14	MA34361-ICSAB2	1982	57996	9132	2687
17:20	MA34361-CCV6	2212	64256	9474	3161
17:26	MA34361-CCB7	2321	67619	9610	3575
17:32	MP80402-MB1	2322	68059	9796	3614
17:38	MP80402-B1	2228	65613	9578	3282
17:44	MP80402-LC1	2298	66979	9702	3482
17:49	MP80402-S1	2126	63522	9511	3005
17:55	MP80402-S2	2159	64072	9536	3049
18:01	JB70173-1F	2193	64722	9610	3168
18:07	MP80402-SD1	2294	68125	9712	3457
18:13	ZZZZZZ	1840	56020	9205	2555 !a
18:19	ZZZZZZ	2089	62944	9562	2975
18:25	MA34361-CCV7	2216	64634	9519	3171
18:31	MA34361-CCB8	2352	67815	9605	3610
18:37	ZZZZZZ	2014	62204	9966	2732
18:44	ZZZZZZ	1846	56231	9117	2506 !a
18:50	ZZZZZZ	1844	56246	9195	2488 !a
18:56	ZZZZZZ	1885	56931	9235	2579
19:02	ZZZZZZ	2150	63057	9632	3048
19:08	ZZZZZZ	1869	56980	9264	2526 !a
19:14	ZZZZZZ	2149	63421	9477	3059
19:20	ZZZZZZ	2039	63443	9494	3035
19:27	ZZZZZZ	2110	61498	9547	2907
19:33	MA34361-CCV8	2251	65357	9483	3198
19:38	MA34361-CCB9	2377	68518	9578	3623
19:45	ZZZZZZ	2213	65171	9717	3103
19:50	ZZZZZZ	1975	61274	9474	2886
19:57	ZZZZZZ	2139	63314	9401	3056
20:03	ZZZZZZ	2180	64058	9521	3147
20:09	ZZZZZZ	2233	65472	9664	3269

INTERNAL STANDARD SUMMARY

Login Number: JB70517

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

File ID: SC070114M1.ICP

Date Analyzed: 07/01/14

Methods: EPA 200.7, SW846 6010C

Analyst: ND

Run ID: MA34361

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
20:15	ZZZZZZ	2309	67081	9582	3440
20:21	ZZZZZZ	2191	64403	9498	3168
20:27	ZZZZZZ	2282	66802	9638	3405
20:33	ZZZZZZ	2332	67798	9780	3517
20:39	MA34361-CCV9	2242	65191	9559	3185
20:44	MA34361-CCB10	2373	68473	9564	3616
20:51	ZZZZZZ	2294	66859	9477	3462
20:57	ZZZZZZ	2269	66714	9707	3409
21:03	ZZZZZZ	2358	68200	9691	3624
21:09	ZZZZZZ	2293	67277	9629	3454
21:15	MP80365-S1	2173	64110	9425	3126
21:20	MP80365-S2	2155	63992	9461	3099
21:26	JB70340-2	2189	64267	9442	3167
21:32	MP80365-SD1	2308	66860	9537	3468
21:38	ZZZZZZ	2252	65898	9558	3283
21:44	MA34361-CCV10	2231	64926	9450	3183
21:50	MA34361-CCB11	2356	68920	9545	3601
21:56	MA34361-CRID5	2366	68336	9627	3603
22:02	MA34361-CRI3	2348	68004	9573	3547
22:08	MA34361-CRIA3	2378	68642	9683	3633
22:14	MA34361-CRID6	2366	68227	9550	3605
22:21	MA34361-CCV11	2259	65430	9459	3211
22:26	MA34361-CCB12	2377	68649	9656	3639
22:32	ZZZZZZ	2368	68179	10066	3243
22:38	ZZZZZZ	2236	67199	9652	3132
22:44	ZZZZZZ	2286	66024	9852	3155
22:50	ZZZZZZ	2341	67755	9871	3385
22:56	ZZZZZZ	2340	67289	9795	3352
23:02	ZZZZZZ	2180	63610	9453	3107
23:08	MP80408-MB1	2391	69291	9841	3690
23:14	MP80408-LC1	2332	67885	9867	3502
23:20	MP80408-S1	2253	66128	9801	3291
23:26	MA34361-CCV12	2247	65260	9436	3192

INTERNAL STANDARD SUMMARY

Login Number: JB70517

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

File ID: SC070114M1.ICP

Date Analyzed: 07/01/14

Methods: EPA 200.7, SW846 6010C

Analyst: ND

Run ID: MA34361

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
23:32	MA34361-CCB13	2385	68985	9524	3639
23:38	MP80408-S2	2266	66585	9845	3312
23:44	JB70452-16	2339	67779	9823	3540
23:50	MP80408-SD1	2371	68334	9674	3619
23:56	MP80408-S3	2273	65122	9833	3322
00:02	JB70452-17	2341	68317	9929	3530
00:08	ZZZZZZ	2325	67318	9879	3473
00:14	ZZZZZZ	2331	67477	9777	3489
00:20	ZZZZZZ	2350	68573	9954	3578
00:26	ZZZZZZ	2305	67342	9866	3442
00:32	ZZZZZZ	2277	66417	9907	3194
00:38	MA34361-CCV13	2287	65985	9541	3240
00:44	MA34361-CCB14	2406	69642	9755	3666
00:50	ZZZZZZ	2373	68562	9984	3589
00:56	ZZZZZZ	2372	68854	9957	3543
01:02	ZZZZZZ	2270	66465	9855	3362
01:08	ZZZZZZ	2319	67385	9868	3472
01:14	ZZZZZZ	2290	67245	9793	3429
01:20	ZZZZZZ	2345	68539	9922	3583
01:26	ZZZZZZ	2303	67448	9879	3452
01:32	ZZZZZZ	2298	67343	9883	3417
01:38	ZZZZZZ	2336	68412	9946	3562
01:44	ZZZZZZ	2329	68035	9872	3545
01:50	MA34361-CCV14	2277	66444	9599	3236
01:56	MA34361-CCB15	2399	69384	9681	3661
02:02	ZZZZZZ	2263	66610	9830	3352
02:08	ZZZZZZ	2346	68488	9961	3568
02:14	ZZZZZZ	2331	68273	9946	3538
02:20	ZZZZZZ	No results reported for the elements associated with this internal standard.			
02:26	ZZZZZZ	2100	62600	9509	2987
02:32	ZZZZZZ	2189	65312	9792	3104
02:39	ZZZZZZ	2083	62422	9512	2922
02:45	ZZZZZZ	2083	62338	9435	2909

INTERNAL STANDARD SUMMARY

Login Number: JB70517

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

File ID: SC070114M1.ICP Date Analyzed: 07/01/14 Methods: EPA 200.7, SW846 6010C
 Analyst: ND Run ID: MA34361
 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
02:51	ZZZZZZ	2054	61424	9498	2866
02:57	ZZZZZZ	2086	62841	9505	2922
03:03	MA34361-CCV15	2286	66269	9510	3251
03:09	MA34361-CCB16	2428	69642	9695	3704
03:15	MA34361-CRI4	2389	69006	9639	3610
03:21	MA34361-CRID7	2405	69536	9670	3659
03:27	MA34361-CRIA4	2426	69703	9693	3694
03:33	MA34361-CCV16	2289	66075	9490	3244
03:39	MA34361-CCB17	2427	69859	9690	3692
03:45	ZZZZZZ	2162	64578	9588	3141
03:51	MP80392-B1	2358	68176	9136	3428
03:57	MP80392-MB1	2410	69490	9697	3696
04:03	MP80392-S1	2347	68358	10004	3292
04:09	MP80392-S2	2332	68332	10054	3287
04:15	JB70517-1	2372	69088	9993	3381
04:21	MP80392-SD1	2407	69293	9795	3556
04:27	JB70517-2	2387	69587	9929	3440
04:32	ZZZZZZ	2401	69515	9888	3460
04:38	ZZZZZZ	2439	70593	10168	3383
04:44	MA34361-CCV17	2302	66592	9540	3264
04:50	MA34361-CCB18	2416	69915	9685	3684
04:56	ZZZZZZ	2425	70271	10091	3395
05:02	ZZZZZZ	2441	70695	10116	3439
05:08	ZZZZZZ	2266	66103	9735	3057
05:14	ZZZZZZ	2382	69106	9849	3407
05:20	ZZZZZZ	2402	69106	9839	3437
05:26	ZZZZZZ	2431	70350	9940	3524
05:32	ZZZZZZ	2438	70264	9662	3496
05:38	ZZZZZZ	2393	69147	9952	3478
05:44	ZZZZZZ	2439	71165	10164	3444
05:50	ZZZZZZ	2420	70060	9846	3547
05:56	MA34361-CCV18	2307	66424	9605	3269
06:02	MA34361-CCB19	2430	70314	9706	3703

INTERNAL STANDARD SUMMARY

Login Number: JB70517

Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NYFile ID: SC070114M1.ICP Date Analyzed: 07/01/14 Methods: EPA 200.7, SW846 6010C
Analyst: ND Run ID: MA34361
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
06:08	ZZZZZZ	2280	66941	9957	3150
06:14	ZZZZZZ	2092	61254	9492	2770
06:20	ZZZZZZ	2313	68008	10209	3184
06:26	ZZZZZZ	2445	70672	10304	3387
06:32	ZZZZZZ	2485	71409	10488	3334
06:38	ZZZZZZ	2347	68819	10123	3363
06:44	MA34361-CCV19	2296	66241	9562	3266
06:50	MA34361-CCB20	2432	69938	9724	3717
06:56	MA34361-CRI5	2395	69291	9687	3623
07:02	MA34361-CRID8	2423	72095	9673	3692
07:08	MA34361-CRIA5	2430	69965	9729	3709
07:14	MA34361-CCV20	2299	66585	9503	3267
07:20	MA34361-CCB21	2429	69571	9660	3706
07:26	ZZZZZZ	2430	69730	9701	3697
07:32	ZZZZZZ	2413	69627	9683	3675
07:38	ZZZZZZ	2439	69840	9761	3741
07:44	ZZZZZZ	2414	69638	9633	3684
07:50	MP80427-MB1	2422	69953	9742	3736
07:56	MP80427-B1	2364	67969	9686	3446
08:02	MP80427-LC1	2358	69010	10018	3274
08:08	ZZZZZZ	2330	67982	9822	3298
08:14	ZZZZZZ	2301	67221	9912	3210
08:20	MA34361-CCV21	2290	66402	9667	3259
08:26	MA34361-CCB22	2424	69652	9774	3711
08:32	ZZZZZZ	2318	67995	9884	3350
08:38	ZZZZZZ	2319	67455	9869	3241
08:44	ZZZZZZ	2422	70558	10101	3514
08:50	ZZZZZZ	2428	70469	10049	3533
08:56	ZZZZZZ	2453	70570	10162	3508
09:02	MP80375-LC3	2397	70141	10072	3613
09:08	MP80375-MB3	2446	69985	9963	3755
09:14	ZZZZZZ	2261	65766	9676	3239
09:20	MA34361-CCV22	2300	66626	9579	3277

INTERNAL STANDARD SUMMARY

Login Number: JB70517
 Account: LANGAN - Langan Engineering & Environmental
 Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SC070114M1.ICP Date Analyzed: 07/01/14 Methods: EPA 200.7, SW846 6010C
 Analyst: ND Run ID: MA34361
 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
09:26	MA34361-CCB23	2417	69906	9816	3702
09:32	MA34361-CRIA6	2425	69873	9761	3712
09:39	MA34361-CRI6	2367	69157	9750	3603
09:45	MA34361-CCV23	2266	65578	9558	3239
09:50	MA34361-CCB24	2389	69365	9793	3671
09:57	ZZZZZ	2405	69727	9826	3700
10:03	ZZZZZ	2395	69554	9593	3693

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.

10.1.1
10

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB70517
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SC070114M1.ICP Date Analyzed: 07/01/14 Methods: EPA 200.7, SW846 6010C
QC Limits: result < RL Run ID: MA34361 Units: ug/l

Time: Sample ID:				10:32 ICB1		10:56 CCB1		12:03 CCB2		13:10 CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final	
Aluminum	200	12	-7.0	<200	-8.0	<200	-6.0	<200	-11	<200	
Antimony	6.0	1.2	1.1	<6.0	0.0	<6.0	0.40	<6.0	0.20	<6.0	
Arsenic	3.0	1.3	0.30	<3.0	-0.30	<3.0	0.80	<3.0	0.50	<3.0	
Barium	200	.37	0.30	<200	0.30	<200	0.20	<200	0.20	<200	
Beryllium	1.0	.1	0.10	<1.0	0.20	<1.0	0.20	<1.0	0.10	<1.0	
Bismuth	20	2									
Boron	100	.75	anr								
Cadmium	3.0	.23	-0.20	<3.0	-0.10	<3.0	0.10	<3.0	0.0	<3.0	
Calcium	5000	32	0.30	<5000	0.10	<5000	0.60	<5000	-2.8	<5000	
Chromium	10	.5	0.20	<10	0.40	<10	0.50	<10	-0.20	<10	
Cobalt	50	.28	0.20	<50	0.20	<50	0.20	<50	0.10	<50	
Copper	10	.67	-0.20	<10	-0.20	<10	-0.40	<10	-0.70	<10	
Iron	100	9.7	0.30	<100	1.7	<100	4.5	<100	-0.60	<100	
Lead	3.0	1	0.30	<3.0	-0.10	<3.0	0.10	<3.0	-0.50	<3.0	
Lithium	20	1.3									
Magnesium	5000	38	-1.2	<5000	12.2	<5000	8.8	<5000	2.5	<5000	
Manganese	15	.1	0.0	<15	0.0	<15	0.10	<15	-0.10	<15	
Molybdenum	20	.39									
Nickel	10	.32	0.10	<10	0.30	<10	0.20	<10	0.20	<10	
Palladium	50	1.6									
Potassium	10000	23	20.9	<10000	30.3	<10000	39.7	<10000	36.9	<10000	
Selenium	10	2.2	-0.60	<10	0.40	<10	-0.30	<10	-1.5	<10	
Silicon	200	7									
Silver	10	.8	0.40	<10	-0.30	<10	0.40	<10	0.0	<10	
Sodium	10000	6.8	-0.30	<10000	0.20	<10000	-8.1	<10000	32.0	<10000	
Sulfur	50	2.9	anr								
Strontium	10	.13									
Thallium	2.0	1.1	-0.40	<2.0	-1.7	<2.0	-0.90	<2.0	-0.70	<2.0	
Tin	10	.83									
Titanium	10	.39									
Tungsten	50	8.2									
Vanadium	50	.41	-0.10	<50	-0.20	<50	-0.20	<50	-0.20	<50	
Zinc	20	4.9	-0.20	<20	0.0	<20	-0.10	<20	-0.20	<20	

10.1.2 10

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB70517
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SC070114M1.ICP Date Analyzed: 07/01/14 Methods: EPA 200.7, SW846 6010C
QC Limits: result < RL Run ID: MA34361 Units: ug/l

Time: Sample ID:		10:32 ICB1		10:56 CCB1		12:03 CCB2		13:10 CCB3		
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Zirconium	10	.53								
(*) Outside of QC limits										
(anr) Analyte not requested										

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB70517
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SC070114M1.ICP
QC Limits: result < RL

Date Analyzed: 07/01/14
Run ID: MA34361

Methods: EPA 200.7, SW846 6010C
Units: ug/l

Time: Sample ID:	RL	IDL	14:16 CCB4 raw	final	15:22 CCB5 raw	final	16:29 CCB6 raw	final	17:26 CCB7 raw	final
Metal										
Aluminum	200	12	-6.9	<200	-8.9	<200	-4.6	<200	-1.3	<200
Antimony	6.0	1.2	-0.20	<6.0	-0.50	<6.0	0.90	<6.0	0.40	<6.0
Arsenic	3.0	1.3	0.10	<3.0	0.80	<3.0	-0.60	<3.0	-0.40	<3.0
Barium	200	.37	0.10	<200	0.20	<200	0.30	<200	0.40	<200
Beryllium	1.0	.1	0.10	<1.0	0.10	<1.0	0.30	<1.0	0.10	<1.0
Bismuth	20	2								
Boron	100	.75	anr							
Cadmium	3.0	.23	0.0	<3.0	0.0	<3.0	0.10	<3.0	0.10	<3.0
Calcium	5000	32	-3.7	<5000	-3.4	<5000	-3.2	<5000	-0.80	<5000
Chromium	10	.5	0.10	<10	0.10	<10	0.0	<10	0.20	<10
Cobalt	50	.28	0.10	<50	0.20	<50	0.30	<50	0.30	<50
Copper	10	.67	-0.40	<10	-0.30	<10	-0.40	<10	-0.50	<10
Iron	100	9.7	0.50	<100	4.5	<100	-0.10	<100	8.0	<100
Lead	3.0	1	-0.30	<3.0	-0.20	<3.0	0.80	<3.0	-0.30	<3.0
Lithium	20	1.3								
Magnesium	5000	38	-15	<5000	10.1	<5000	31.4	<5000	-7.3	<5000
Manganese	15	.1	0.0	<15	0.10	<15	0.10	<15	0.0	<15
Molybdenum	20	.39								
Nickel	10	.32	0.30	<10	0.10	<10	0.60	<10	0.10	<10
Palladium	50	1.6								
Potassium	10000	23	32.5	<10000	19.4	<10000	35.7	<10000	21.8	<10000
Selenium	10	2.2	0.50	<10	0.50	<10	-0.70	<10	-0.80	<10
Silicon	200	7								
Silver	10	.8	-0.10	<10	0.20	<10	-0.30	<10	0.40	<10
Sodium	10000	6.8	25.3	<10000	8.3	<10000	-0.20	<10000	-2.0	<10000
Sulfur	50	2.9	anr							
Strontium	10	.13								
Thallium	2.0	1.1	0.70	<2.0	1.3	<2.0	0.20	<2.0	-0.10	<2.0
Tin	10	.83								
Titanium	10	.39								
Tungsten	50	8.2								
Vanadium	50	.41	-0.30	<50	-0.20	<50	-0.10	<50	-0.10	<50
Zinc	20	4.9	-0.10	<20	-0.10	<20	0.20	<20	-0.10	<20

10.1.2 10

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB70517
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SC070114M1.ICP Date Analyzed: 07/01/14 Methods: EPA 200.7, SW846 6010C
QC Limits: result < RL Run ID: MA34361 Units: ug/l

Time: Sample ID:			14:16 CCB4		15:22 CCB5		16:29 CCB6		17:26 CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final

Zirconium 10 .53

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB70517
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SC070114M1.ICP Date Analyzed: 07/01/14 Methods: EPA 200.7, SW846 6010C
QC Limits: result < RL Run ID: MA34361 Units: ug/l

Time: Sample ID:	RL	IDL	18:31 CCB8 raw	final	19:38 CCB9 raw	final	20:44 CCB10 raw	final	21:50 CCB11 raw	final
Metal										
Aluminum	200	12	-0.50	<200	-3.0	<200	-5.8	<200	-2.2	<200
Antimony	6.0	1.2	0.10	<6.0	0.90	<6.0	0.70	<6.0	1.2	<6.0
Arsenic	3.0	1.3	0.30	<3.0	0.40	<3.0	-0.40	<3.0	1.1	<3.0
Barium	200	.37	0.40	<200	0.40	<200	0.30	<200	0.50	<200
Beryllium	1.0	.1	0.10	<1.0	0.20	<1.0	0.20	<1.0	0.40	<1.0
Bismuth	20	2								
Boron	100	.75	anr							
Cadmium	3.0	.23	0.0	<3.0	0.10	<3.0	0.10	<3.0	0.20	<3.0
Calcium	5000	32	4.8	<5000	2.9	<5000	-0.10	<5000	6.5	<5000
Chromium	10	.5	0.30	<10	0.50	<10	0.40	<10	0.60	<10
Cobalt	50	.28	0.10	<50	0.30	<50	0.30	<50	0.60	<50
Copper	10	.67	-0.60	<10	-0.50	<10	-0.60	<10	-0.30	<10
Iron	100	9.7	3.5	<100	4.2	<100	7.1	<100	11.5	<100
Lead	3.0	1	-0.30	<3.0	-0.20	<3.0	0.40	<3.0	0.10	<3.0
Lithium	20	1.3								
Magnesium	5000	38	12.3	<5000	32.4	<5000	-6.3	<5000	-3.2	<5000
Manganese	15	.1	0.10	<15	0.10	<15	0.10	<15	0.60	<15
Molybdenum	20	.39								
Nickel	10	.32	0.40	<10	0.30	<10	0.30	<10	0.50	<10
Palladium	50	1.6								
Potassium	10000	23	36.6	<10000	115	<10000	65.4	<10000	38.3	<10000
Selenium	10	2.2	-0.30	<10	-0.70	<10	-0.30	<10	0.70	<10
Silicon	200	7								
Silver	10	.8	-0.10	<10	0.20	<10	0.30	<10	0.50	<10
Sodium	10000	6.8	16.4	<10000	40.6	<10000	8.9	<10000	16.3	<10000
Sulfur	50	2.9	anr							
Strontium	10	.13								
Thallium	2.0	1.1	1.5	<2.0	0.50	<2.0	0.70	<2.0	0.70	<2.0
Tin	10	.83								
Titanium	10	.39								
Tungsten	50	8.2								
Vanadium	50	.41	-0.10	<50	-0.10	<50	-0.10	<50	0.10	<50
Zinc	20	4.9	-0.10	<20	0.0	<20	0.10	<20	0.20	<20

10.1.2 10

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB70517
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SC070114M1.ICP Date Analyzed: 07/01/14 Methods: EPA 200.7, SW846 6010C
QC Limits: result < RL Run ID: MA34361 Units: ug/l

Time: Sample ID:			18:31 CCB8		19:38 CCB9		20:44 CCB10		21:50 CCB11	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final

Zirconium 10 .53

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB70517
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SC070114M1.ICP Date Analyzed: 07/01/14 Methods: EPA 200.7, SW846 6010C
QC Limits: result < RL Run ID: MA34361 Units: ug/l

Time: Sample ID:		22:26 CCB12		23:32 CCB13		00:44 CCB14		01:56 CCB15			
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final	
Aluminum	200	12	10.9	<200	-3.7	<200	1.4	<200	-0.30	<200	
Antimony	6.0	1.2	1.3	<6.0	0.20	<6.0	1.0	<6.0	0.70	<6.0	
Arsenic	3.0	1.3	-0.30	<3.0	0.40	<3.0	0.60	<3.0	-0.60	<3.0	
Barium	200	.37	0.70	<200	0.50	<200	0.40	<200	0.40	<200	
Beryllium	1.0	.1	0.50	<1.0	0.20	<1.0	0.30	<1.0	0.50	<1.0	
Bismuth	20	2									
Boron	100	.75	anr								
Cadmium	3.0	.23	0.40	<3.0	0.10	<3.0	0.10	<3.0	0.10	<3.0	
Calcium	5000	32	13.5	<5000	3.7	<5000	7.5	<5000	7.0	<5000	
Chromium	10	.5	0.50	<10	0.50	<10	0.20	<10	0.40	<10	
Cobalt	50	.28	0.60	<50	0.20	<50	0.50	<50	0.40	<50	
Copper	10	.67	0.10	<10	-0.40	<10	-0.30	<10	0.0	<10	
Iron	100	9.7	13.0	<100	4.7	<100	5.2	<100	8.6	<100	
Lead	3.0	1	1.1	<3.0	-0.30	<3.0	0.20	<3.0	-0.20	<3.0	
Lithium	20	1.3									
Magnesium	5000	38	13.9	<5000	0.10	<5000	4.7	<5000	20.0	<5000	
Manganese	15	.1	0.50	<15	0.30	<15	0.30	<15	0.30	<15	
Molybdenum	20	.39									
Nickel	10	.32	0.60	<10	0.60	<10	0.20	<10	0.30	<10	
Palladium	50	1.6									
Potassium	10000	23	59.2	<10000	39.4	<10000	19.9	<10000	39.8	<10000	
Selenium	10	2.2	-0.30	<10	-0.70	<10	-1.4	<10	0.60	<10	
Silicon	200	7									
Silver	10	.8	-0.50	<10	0.10	<10	-0.80	<10	0.20	<10	
Sodium	10000	6.8	10.3	<10000	4.9	<10000	-0.20	<10000	2.3	<10000	
Sulfur	50	2.9	anr								
Strontium	10	.13									
Thallium	2.0	1.1	0.30	<2.0	-0.30	<2.0	0.40	<2.0	0.80	<2.0	
Tin	10	.83									
Titanium	10	.39									
Tungsten	50	8.2									
Vanadium	50	.41	0.30	<50	0.20	<50	0.0	<50	0.30	<50	
Zinc	20	4.9	0.20	<20	0.0	<20	0.90	<20	0.10	<20	

10.1.2 10

BLANK RESULTS SUMMARY
 Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB70517
 Account: LANGAN - Langan Engineering & Environmental
 Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SC070114M1.ICP Date Analyzed: 07/01/14 Methods: EPA 200.7, SW846 6010C
 QC Limits: result < RL Run ID: MA34361 Units: ug/l

Time: Sample ID:			22:26 CCB12		23:32 CCB13		00:44 CCB14		01:56 CCB15	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final

Zirconium 10 .53

(*) Outside of QC limits
 (anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB70517
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SC070114M1.ICP Date Analyzed: 07/01/14 Methods: EPA 200.7, SW846 6010C
QC Limits: result < RL Run ID: MA34361 Units: ug/l

Time: Sample ID:		03:09 CCB16		03:39 CCB17		04:50 CCB18		06:02 CCB19			
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final	
Aluminum	200	12	8.6	<200	-3.5	<200	-3.7	<200	0.80	<200	
Antimony	6.0	1.2	1.2	<6.0	0.40	<6.0	0.40	<6.0	0.50	<6.0	
Arsenic	3.0	1.3	0.80	<3.0	0.20	<3.0	1.2	<3.0	0.0	<3.0	
Barium	200	.37	0.50	<200	0.40	<200	0.20	<200	0.70	<200	
Beryllium	1.0	.1	0.20	<1.0	0.20	<1.0	0.20	<1.0	0.30	<1.0	
Bismuth	20	2									
Boron	100	.75	anr								
Cadmium	3.0	.23	0.30	<3.0	0.20	<3.0	0.0	<3.0	0.10	<3.0	
Calcium	5000	32	6.8	<5000	7.4	<5000	5.2	<5000	9.8	<5000	
Chromium	10	.5	0.10	<10	0.60	<10	0.30	<10	0.40	<10	
Cobalt	50	.28	0.50	<50	0.40	<50	0.30	<50	0.50	<50	
Copper	10	.67	-0.30	<10	-0.50	<10	-0.30	<10	0.0	<10	
Iron	100	9.7	5.5	<100	4.0	<100	8.7	<100	11.2	<100	
Lead	3.0	1	0.60	<3.0	0.60	<3.0	0.20	<3.0	-0.40	<3.0	
Lithium	20	1.3									
Magnesium	5000	38	19.2	<5000	13.1	<5000	4.6	<5000	9.9	<5000	
Manganese	15	.1	0.30	<15	0.30	<15	0.30	<15	0.40	<15	
Molybdenum	20	.39									
Nickel	10	.32	0.50	<10	0.40	<10	0.50	<10	0.30	<10	
Palladium	50	1.6									
Potassium	10000	23	69.5	<10000	44.7	<10000	47.3	<10000	22.0	<10000	
Selenium	10	2.2	0.50	<10	-1.2	<10	-2.0	<10	-1.0	<10	
Silicon	200	7									
Silver	10	.8	0.10	<10	-0.50	<10	0.0	<10	-0.40	<10	
Sodium	10000	6.8	4.3	<10000	0.0	<10000	-0.50	<10000	2.6	<10000	
Sulfur	50	2.9	anr								
Strontium	10	.13									
Thallium	2.0	1.1	0.20	<2.0	-0.30	<2.0	0.30	<2.0	0.20	<2.0	
Tin	10	.83									
Titanium	10	.39									
Tungsten	50	8.2									
Vanadium	50	.41	0.0	<50	-0.10	<50	0.0	<50	0.10	<50	
Zinc	20	4.9	0.10	<20	0.10	<20	0.30	<20	0.40	<20	

10.1.2 10

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB70517
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SC070114M1.ICP Date Analyzed: 07/01/14 Methods: EPA 200.7, SW846 6010C
QC Limits: result < RL Run ID: MA34361 Units: ug/l

Time: Sample ID:			03:09 CCB16		03:39 CCB17		04:50 CCB18		06:02 CCB19	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final

Zirconium 10 .53

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB70517
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SC070114M1.ICP Date Analyzed: 07/01/14 Methods: EPA 200.7, SW846 6010C
QC Limits: result < RL Run ID: MA34361 Units: ug/l

Time: Sample ID:	RL	IDL	06:50 CCB20 raw	final	07:20 CCB21 raw	final
Metal						
Aluminum	200	12	-2.6	<200	0.10	<200
Antimony	6.0	1.2	0.90	<6.0	0.60	<6.0
Arsenic	3.0	1.3	0.60	<3.0	0.50	<3.0
Barium	200	.37	0.60	<200	0.50	<200
Beryllium	1.0	.1	0.30	<1.0	0.40	<1.0
Bismuth	20	2				
Boron	100	.75	anr			
Cadmium	3.0	.23	0.10	<3.0	0.20	<3.0
Calcium	5000	32	10.2	<5000	6.9	<5000
Chromium	10	.5	0.30	<10	0.10	<10
Cobalt	50	.28	0.30	<50	0.40	<50
Copper	10	.67	0.10	<10	-0.20	<10
Iron	100	9.7	17.9	<100	9.9	<100
Lead	3.0	1	0.60	<3.0	0.70	<3.0
Lithium	20	1.3				
Magnesium	5000	38	8.5	<5000	-2.3	<5000
Manganese	15	.1	0.50	<15	0.40	<15
Molybdenum	20	.39				
Nickel	10	.32	0.50	<10	0.50	<10
Palladium	50	1.6				
Potassium	10000	23	36.2	<10000	49.2	<10000
Selenium	10	2.2	-2.1	<10	-0.70	<10
Silicon	200	7				
Silver	10	.8	-0.10	<10	0.40	<10
Sodium	10000	6.8	-0.80	<10000	-2.8	<10000
Sulfur	50	2.9	anr			
Strontium	10	.13				
Thallium	2.0	1.1	1.1	<2.0	0.60	<2.0
Tin	10	.83				
Titanium	10	.39				
Tungsten	50	8.2				
Vanadium	50	.41	0.0	<50	0.20	<50
Zinc	20	4.9	0.50	<20	0.30	<20

10.1.2 10

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB70517
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SC070114M1.ICP Date Analyzed: 07/01/14 Methods: EPA 200.7, SW846 6010C
QC Limits: result < RL Run ID: MA34361 Units: ug/l

Time:		06:50		07:20		
Sample ID:		CCB20		CCB21		
Metal	RL	IDL	raw	final	raw	final

Zirconium 10 .53

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial Continuing Calibration Check

Login Number: JB70517

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

File ID: SC070114M1.ICP Date Analyzed: 07/01/14 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA34361 Units: ug/l

Time: Sample ID:	ICCV	10:37 ICCV1	
Metal	True	Results	% Rec
Aluminum	40000	38800	97.0
Antimony	2000	1980	99.0
Arsenic	2000	1950	97.5
Barium	2000	1950	97.5
Beryllium	2000	1970	98.5
Bismuth			
Boron	anr		
Cadmium	2000	1970	98.5
Calcium	40000	39600	99.0
Chromium	2000	2000	100.0
Cobalt	2000	1990	99.5
Copper	2000	1910	95.5
Iron	40000	40000	100.0
Lead	2000	2010	100.5
Lithium			
Magnesium	40000	39300	98.3
Manganese	2000	2010	100.5
Molybdenum			
Nickel	2000	2000	100.0
Palladium			
Potassium	40000	38800	97.0
Selenium	2000	1960	98.0
Silicon			
Silver	250	241	96.4
Sodium	40000	39000	97.5
Sulfur	anr		
Strontium			
Thallium	2000	2060	103.0
Tin			
Titanium			
Tungsten			
Vanadium	2000	1990	99.5
Zinc	2000	1990	99.5

CALIBRATION CHECK STANDARDS SUMMARY
Initial Continuing Calibration Check

Login Number: JB70517

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

File ID: SC070114M1.ICP Date Analyzed: 07/01/14 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA34361 Units: ug/l

Time:	10:37
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: JB70517
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SC070114M1.ICP Date Analyzed: 07/01/14 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA34361 Units: ug/l

Time: Sample ID:	ICV	10:22 ICV1		CCV	11:57 CCV1		CCV	13:04 CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	38900	97.3	40000	39000	97.5	40000	39300	98.3
Antimony	2000	1980	99.0	2000	1980	99.0	2000	2010	100.5
Arsenic	2000	2000	100.0	2000	1950	97.5	2000	1980	99.0
Barium	2000	1980	99.0	2000	1950	97.5	2000	1980	99.0
Beryllium	2000	1980	99.0	2000	1970	98.5	2000	1980	99.0
Bismuth									
Boron	anr								
Cadmium	2000	1980	99.0	2000	1970	98.5	2000	2000	100.0
Calcium	40000	40200	100.5	40000	39500	98.8	40000	39600	99.0
Chromium	2000	2020	101.0	2000	1990	99.5	2000	2020	101.0
Cobalt	2000	1980	99.0	2000	2000	100.0	2000	2020	101.0
Copper	2000	1930	96.5	2000	1890	94.5	2000	1940	97.0
Iron	40000	40800	102.0	40000	39800	99.5	40000	39800	99.5
Lead	2000	2020	101.0	2000	2020	101.0	2000	2050	102.5
Lithium									
Magnesium	40000	39700	99.3	40000	39100	97.8	40000	39100	97.8
Manganese	2000	2020	101.0	2000	2000	100.0	2000	2020	101.0
Molybdenum									
Nickel	2000	2010	100.5	2000	2010	100.5	2000	2030	101.5
Palladium									
Potassium	40000	40100	100.3	40000	38800	97.0	40000	39300	98.3
Selenium	2000	1970	98.5	2000	1950	97.5	2000	1980	99.0
Silicon									
Silver	250	243	97.2	250	240	96.0	250	244	97.6
Sodium	40000	39900	99.8	40000	39100	97.8	40000	39700	99.3
Sulfur	anr								
Strontium									
Thallium	2000	2070	103.5	2000	2060	103.0	2000	2090	104.5
Tin									
Titanium									
Tungsten									
Vanadium	2000	2000	100.0	2000	1980	99.0	2000	2000	100.0
Zinc	2000	2010	100.5	2000	1990	99.5	2000	2000	100.0

10.1.4
10

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB70517
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SC070114M1.ICP Date Analyzed: 07/01/14 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA34361 Units: ug/l

Time:		10:22			11:57			13:04		
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: JB70517
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SC070114M1.ICP Date Analyzed: 07/01/14 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA34361 Units: ug/l

Time: Sample ID:	CCV	14:10 CCV3 Results	% Rec	CCV	15:17 CCV4 Results	% Rec	CCV	16:23 CCV5 Results	% Rec
Metal	True			True			True		
Aluminum	40000	39500	98.8	40000	39700	99.3	40000	40400	101.0
Antimony	2000	1990	99.5	2000	2000	100.0	2000	2050	102.5
Arsenic	2000	1960	98.0	2000	1970	98.5	2000	2020	101.0
Barium	2000	1960	98.0	2000	1960	98.0	2000	1990	99.5
Beryllium	2000	1990	99.5	2000	2000	100.0	2000	2040	102.0
Bismuth									
Boron	anr								
Cadmium	2000	1980	99.0	2000	1990	99.5	2000	2040	102.0
Calcium	40000	39800	99.5	40000	40000	100.0	40000	40700	101.8
Chromium	2000	2010	100.5	2000	2030	101.5	2000	2080	104.0
Cobalt	2000	2020	101.0	2000	2030	101.5	2000	2070	103.5
Copper	2000	1920	96.0	2000	1940	97.0	2000	1960	98.0
Iron	40000	39900	99.8	40000	40000	100.0	40000	40600	101.5
Lead	2000	2050	102.5	2000	2060	103.0	2000	2110	105.5
Lithium									
Magnesium	40000	39100	97.8	40000	39300	98.3	40000	39400	98.5
Manganese	2000	2010	100.5	2000	2020	101.0	2000	2060	103.0
Molybdenum									
Nickel	2000	2030	101.5	2000	2040	102.0	2000	2080	104.0
Palladium									
Potassium	40000	38900	97.3	40000	39000	97.5	40000	39600	99.0
Selenium	2000	1970	98.5	2000	1980	99.0	2000	2040	102.0
Silicon									
Silver	250	242	96.8	250	244	97.6	250	248	99.2
Sodium	40000	39300	98.3	40000	39500	98.8	40000	40100	100.3
Sulfur	anr								
Strontium									
Thallium	2000	2090	104.5	2000	2110	105.5	2000	2160	108.0
Tin									
Titanium									
Tungsten									
Vanadium	2000	1990	99.5	2000	2000	100.0	2000	2040	102.0
Zinc	2000	2000	100.0	2000	2010	100.5	2000	2040	102.0

10.1.4
10

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB70517
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SC070114M1.ICP Date Analyzed: 07/01/14 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA34361 Units: ug/l

Time:		14:10			15:17			16:23		
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: JB70517
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SC070114M1.ICP Date Analyzed: 07/01/14 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA34361 Units: ug/l

Time: Sample ID:	CCV	17:20 CCV6		CCV	18:25 CCV7		CCV	19:33 CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	39700	99.3	40000	39400	98.5	40000	39400	98.5
Antimony	2000	2010	100.5	2000	2010	100.5	2000	1970	98.5
Arsenic	2000	1980	99.0	2000	1970	98.5	2000	1940	97.0
Barium	2000	1960	98.0	2000	1960	98.0	2000	1940	97.0
Beryllium	2000	2000	100.0	2000	1980	99.0	2000	1970	98.5
Bismuth									
Boron	anr								
Cadmium	2000	2000	100.0	2000	2000	100.0	2000	1960	98.0
Calcium	40000	40000	100.0	40000	39600	99.0	40000	39400	98.5
Chromium	2000	2030	101.5	2000	2030	101.5	2000	2020	101.0
Cobalt	2000	2030	101.5	2000	2030	101.5	2000	2010	100.5
Copper	2000	1940	97.0	2000	1940	97.0	2000	1900	95.0
Iron	40000	40000	100.0	40000	39600	99.0	40000	39200	98.0
Lead	2000	2060	103.0	2000	2060	103.0	2000	2040	102.0
Lithium									
Magnesium	40000	39300	98.3	40000	39000	97.5	40000	38900	97.3
Manganese	2000	2020	101.0	2000	2020	101.0	2000	2010	100.5
Molybdenum									
Nickel	2000	2040	102.0	2000	2040	102.0	2000	2030	101.5
Palladium									
Potassium	40000	39000	97.5	40000	39200	98.0	40000	39100	97.8
Selenium	2000	1990	99.5	2000	1990	99.5	2000	1950	97.5
Silicon									
Silver	250	244	97.6	250	244	97.6	250	241	96.4
Sodium	40000	39500	98.8	40000	39600	99.0	40000	39300	98.3
Sulfur	anr								
Strontium									
Thallium	2000	2110	105.5	2000	2110	105.5	2000	2080	104.0
Tin									
Titanium									
Tungsten									
Vanadium	2000	2000	100.0	2000	2000	100.0	2000	1980	99.0
Zinc	2000	2000	100.0	2000	2000	100.0	2000	1980	99.0

10.1.4
10

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB70517
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SC070114M1.ICP Date Analyzed: 07/01/14 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA34361 Units: ug/l

Time:		17:20			18:25			19:33		
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8		
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: JB70517
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SC070114M1.ICP Date Analyzed: 07/01/14 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA34361 Units: ug/l

Time: Sample ID:	CCV	20:39 CCV9		CCV	21:44 CCV10		CCV	22:21 CCV11	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	39500	98.8	40000	39600	99.0	40000	39300	98.3
Antimony	2000	1990	99.5	2000	2010	100.5	2000	1990	99.5
Arsenic	2000	1960	98.0	2000	1970	98.5	2000	1950	97.5
Barium	2000	1950	97.5	2000	1960	98.0	2000	1940	97.0
Beryllium	2000	1970	98.5	2000	1980	99.0	2000	1960	98.0
Bismuth									
Boron	anr								
Cadmium	2000	1980	99.0	2000	2000	100.0	2000	1980	99.0
Calcium	40000	39500	98.8	40000	39600	99.0	40000	39300	98.3
Chromium	2000	2020	101.0	2000	2030	101.5	2000	2010	100.5
Cobalt	2000	2020	101.0	2000	2030	101.5	2000	2010	100.5
Copper	2000	1900	95.0	2000	1930	96.5	2000	1900	95.0
Iron	40000	39100	97.8	40000	39400	98.5	40000	39100	97.8
Lead	2000	2060	103.0	2000	2070	103.5	2000	2060	103.0
Lithium									
Magnesium	40000	38800	97.0	40000	39000	97.5	40000	38800	97.0
Manganese	2000	2020	101.0	2000	2020	101.0	2000	2010	100.5
Molybdenum									
Nickel	2000	2040	102.0	2000	2040	102.0	2000	2030	101.5
Palladium									
Potassium	40000	39100	97.8	40000	39300	98.3	40000	39000	97.5
Selenium	2000	1980	99.0	2000	1990	99.5	2000	1960	98.0
Silicon									
Silver	250	242	96.8	250	243	97.2	250	240	96.0
Sodium	40000	39500	98.8	40000	39600	99.0	40000	39200	98.0
Sulfur	anr								
Strontium									
Thallium	2000	2100	105.0	2000	2110	105.5	2000	2100	105.0
Tin									
Titanium									
Tungsten									
Vanadium	2000	1990	99.5	2000	2000	100.0	2000	1980	99.0
Zinc	2000	2000	100.0	2000	2000	100.0	2000	1990	99.5

10.1.4
10

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB70517
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SC070114M1.ICP Date Analyzed: 07/01/14 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA34361 Units: ug/l

Time:		20:39			21:44			22:21		
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: JB70517
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SC070114M1.ICP Date Analyzed: 07/01/14 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA34361 Units: ug/l

Time: Sample ID:	CCV	23:26 CCV12		CCV	00:38 CCV13		CCV	01:50 CCV14	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	39700	99.3	40000	39200	98.0	40000	38700	96.8
Antimony	2000	2000	100.0	2000	1950	97.5	2000	1980	99.0
Arsenic	2000	1970	98.5	2000	1920	96.0	2000	1940	97.0
Barium	2000	1950	97.5	2000	1930	96.5	2000	1930	96.5
Beryllium	2000	1970	98.5	2000	1940	97.0	2000	1930	96.5
Bismuth									
Boron	anr								
Cadmium	2000	1990	99.5	2000	1950	97.5	2000	1970	98.5
Calcium	40000	39600	99.0	40000	39000	97.5	40000	38800	97.0
Chromium	2000	2030	101.5	2000	2000	100.0	2000	1990	99.5
Cobalt	2000	2020	101.0	2000	2000	100.0	2000	2000	100.0
Copper	2000	1910	95.5	2000	1890	94.5	2000	1890	94.5
Iron	40000	39100	97.8	40000	38600	96.5	40000	38400	96.0
Lead	2000	2070	103.5	2000	2040	102.0	2000	2040	102.0
Lithium									
Magnesium	40000	38900	97.3	40000	38200	95.5	40000	38200	95.5
Manganese	2000	2020	101.0	2000	1990	99.5	2000	1990	99.5
Molybdenum									
Nickel	2000	2040	102.0	2000	2010	100.5	2000	2020	101.0
Palladium									
Potassium	40000	39200	98.0	40000	38800	97.0	40000	38800	97.0
Selenium	2000	1980	99.0	2000	1940	97.0	2000	1960	98.0
Silicon									
Silver	250	242	96.8	250	238	95.2	250	238	95.2
Sodium	40000	39500	98.8	40000	39200	98.0	40000	39100	97.8
Sulfur	anr								
Strontium									
Thallium	2000	2110	105.5	2000	2070	103.5	2000	2090	104.5
Tin									
Titanium									
Tungsten									
Vanadium	2000	1990	99.5	2000	1970	98.5	2000	1960	98.0
Zinc	2000	2000	100.0	2000	1970	98.5	2000	1970	98.5

10.1.4
10

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB70517
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SC070114M1.ICP Date Analyzed: 07/01/14 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA34361 Units: ug/l

Time:	23:26	00:38	01:50
Sample ID:	CCV12	CCV13	CCV14
Metal	True	True	True
Results	% Rec	Results	% Rec

Zirconium

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB70517
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SC070114M1.ICP Date Analyzed: 07/01/14 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA34361 Units: ug/l

Time: Sample ID:	CCV	03:03 CCV15		CCV	03:33 CCV16		CCV	04:44 CCV17	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	39000	97.5	40000	38900	97.3	40000	38800	97.0
Antimony	2000	1960	98.0	2000	1960	98.0	2000	1960	98.0
Arsenic	2000	1930	96.5	2000	1930	96.5	2000	1920	96.0
Barium	2000	1940	97.0	2000	1940	97.0	2000	1920	96.0
Beryllium	2000	1930	96.5	2000	1930	96.5	2000	1930	96.5
Bismuth									
Boron	anr								
Cadmium	2000	1960	98.0	2000	1950	97.5	2000	1950	97.5
Calcium	40000	38900	97.3	40000	38900	97.3	40000	38800	97.0
Chromium	2000	1990	99.5	2000	2000	100.0	2000	1990	99.5
Cobalt	2000	2000	100.0	2000	2010	100.5	2000	2000	100.0
Copper	2000	1890	94.5	2000	1870	93.5	2000	1870	93.5
Iron	40000	38500	96.3	40000	38500	96.3	40000	38200	95.5
Lead	2000	2040	102.0	2000	2040	102.0	2000	2040	102.0
Lithium									
Magnesium	40000	38200	95.5	40000	38500	96.3	40000	38200	95.5
Manganese	2000	2000	100.0	2000	2000	100.0	2000	1990	99.5
Molybdenum									
Nickel	2000	2010	100.5	2000	2020	101.0	2000	2010	100.5
Palladium									
Potassium	40000	39100	97.8	40000	39000	97.5	40000	38800	97.0
Selenium	2000	1940	97.0	2000	1940	97.0	2000	1940	97.0
Silicon									
Silver	250	238	95.2	250	237	94.8	250	238	95.2
Sodium	40000	39300	98.3	40000	39000	97.5	40000	39100	97.8
Sulfur	anr								
Strontium									
Thallium	2000	2070	103.5	2000	2070	103.5	2000	2080	104.0
Tin									
Titanium									
Tungsten									
Vanadium	2000	1970	98.5	2000	1970	98.5	2000	1960	98.0
Zinc	2000	1970	98.5	2000	1980	99.0	2000	1970	98.5

10.1.4
10

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB70517
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SC070114M1.ICP Date Analyzed: 07/01/14 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA34361 Units: ug/l

Time:		03:03			03:33			04:44		
Sample ID:	CCV	CCV15		CCV	CCV16		CCV	CCV17		
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: JB70517
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SC070114M1.ICP Date Analyzed: 07/01/14 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA34361 Units: ug/l

Time: Sample ID:	CCV	05:56 CCV18		CCV	06:44 CCV19		CCV	07:14 CCV20	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	38700	96.8	40000	38900	97.3	40000	38900	97.3
Antimony	2000	1960	98.0	2000	1970	98.5	2000	1970	98.5
Arsenic	2000	1920	96.0	2000	1930	96.5	2000	1930	96.5
Barium	2000	1930	96.5	2000	1940	97.0	2000	1940	97.0
Beryllium	2000	1920	96.0	2000	1930	96.5	2000	1930	96.5
Bismuth									
Boron	anr								
Cadmium	2000	1950	97.5	2000	1960	98.0	2000	1970	98.5
Calcium	40000	38600	96.5	40000	38700	96.8	40000	39000	97.5
Chromium	2000	1990	99.5	2000	1990	99.5	2000	1990	99.5
Cobalt	2000	2000	100.0	2000	1990	99.5	2000	2000	100.0
Copper	2000	1870	93.5	2000	1900	95.0	2000	1890	94.5
Iron	40000	38100	95.3	40000	38200	95.5	40000	38300	95.8
Lead	2000	2050	102.5	2000	2040	102.0	2000	2050	102.5
Lithium									
Magnesium	40000	38100	95.3	40000	38100	95.3	40000	38200	95.5
Manganese	2000	1990	99.5	2000	2000	100.0	2000	1990	99.5
Molybdenum									
Nickel	2000	2010	100.5	2000	2000	100.0	2000	2020	101.0
Palladium									
Potassium	40000	39000	97.5	40000	39200	98.0	40000	39100	97.8
Selenium	2000	1940	97.0	2000	1940	97.0	2000	1950	97.5
Silicon									
Silver	250	237	94.8	250	240	96.0	250	239	95.6
Sodium	40000	39200	98.0	40000	39500	98.8	40000	39200	98.0
Sulfur	anr								
Strontium									
Thallium	2000	2070	103.5	2000	2080	104.0	2000	2090	104.5
Tin									
Titanium									
Tungsten									
Vanadium	2000	1960	98.0	2000	1970	98.5	2000	1970	98.5
Zinc	2000	1970	98.5	2000	1960	98.0	2000	1980	99.0

10.1.4
10

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB70517
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SC070114M1.ICP Date Analyzed: 07/01/14 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA34361 Units: ug/l

Time:		05:56			06:44			07:14		
Sample ID:	CCV	CCV18		CCV	CCV19		CCV	CCV20		
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec	

Zirconium

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JB70517

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

File ID: SC070114M1.ICP
QC Limits: 70 to 130 % Recovery

Date Analyzed: 07/01/14
Run ID: MA34361

Methods: EPA 200.7, SW846 6010C
Units: ug/l

Time: Sample ID:	CRI	CRIA	CRID	11:03 CRI1	% Rec	11:15 CRIA1	% Rec	11:22 CRID2	% Rec
Metal	True	True	True	Results		Results		Results	
Aluminum	200	500	100	194	97.0	482	96.4	93.0	93.0
Antimony	6.0	20	3.0	5.6	93.3	19.8	99.0	2.5	83.3
Arsenic	8.0	20	3.0	8.2	102.5	20.5	102.5	3.2	106.7
Barium	200		4.0	201	100.5			4.2	105.0
Beryllium	2.0		1.0	2.3	115.0			1.1	110.0
Bismuth	20								
Boron	100		10	anr					
Cadmium	3.0		1.0	3.2	106.7			0.90	90.0
Calcium	5000		1000	5070	101.4			1030	103.0
Chromium	10		2.0	11.2	112.0			2.1	105.0
Cobalt	50		3.0	51.1	102.2			3.1	103.3
Copper	10		2.0	9.9	99.0			1.8	90.0
Iron	100	500		110	110.0	532	106.4		
Lead	3.0	20	2.5	2.8	93.3	21.0	105.0	2.7	108.0
Lithium	20								
Magnesium	5000		100	4990	99.8			89.5	89.5
Manganese	15		3.0	16.0	106.7			3.2	106.7
Molybdenum	20								
Nickel	10		4.0	10.3	103.0			4.2	105.0
Palladium	50								
Potassium	5000		2000	4890	97.8			1990	99.5
Selenium	10	20	5.0	11.4	114.0	21.2	106.0	3.6	72.0
Silicon	200								
Silver	5.0		1.0	4.7	94.0			0.90	90.0
Sodium	5000		1000	4930	98.6			992	99.2
Sulfur	50			anr					
Strontium	10								
Thallium	10		2.0	10.8	108.0			2.4	120.0
Tin	10								
Titanium	10								
Tungsten	50								
Vanadium	50		2.0	53.8	107.6			1.9	95.0
Zinc	20		10	23.0	115.0			11.4	114.0

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JB70517
 Account: LANGAN - Langan Engineering & Environmental
 Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SC070114M1.ICP Date Analyzed: 07/01/14 Methods: EPA 200.7, SW846 6010C
 QC Limits: 70 to 130 % Recovery Run ID: MA34361 Units: ug/l

Time:				11:03		11:15		11:22	
Sample ID:	CRI	CRIA	CRID	CRI1		CRIA1		CRID2	
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: JB70517
 Account: LANGAN - Langan Engineering & Environmental
 Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SC070114M1.ICP Date Analyzed: 07/01/14 Methods: EPA 200.7, SW846 6010C
 QC Limits: 70 to 130 % Recovery Run ID: MA34361 Units: ug/l

Time: Sample ID:	CRI	CRIA	CRID	16:43 CRID3	% Rec	16:50 CRI2	% Rec	16:56 CRIA2	% Rec
Metal	True	True	True	Results		Results		Results	
Aluminum	200	500	100	93.1	93.1	187	93.5	499	99.8
Antimony	6.0	20	3.0	3.4	113.3	6.3	105.0	20.5	102.5
Arsenic	8.0	20	3.0	3.3	110.0	8.9	111.3	20.5	102.5
Barium	200		4.0	4.2	105.0	202	101.0		
Beryllium	2.0		1.0	1.0	100.0	2.2	110.0		
Bismuth	20								
Boron	100		10	anr					
Cadmium	3.0		1.0	1.1	110.0	3.3	110.0		
Calcium	5000		1000	1020	102.0	5140	102.8		
Chromium	10		2.0	2.0	100.0	11.2	112.0		
Cobalt	50		3.0	3.0	100.0	51.6	103.2		
Copper	10		2.0	1.6	80.0	9.8	98.0		
Iron	100	500				108	108.0	529	105.8
Lead	3.0	20	2.5	3.1	124.0	2.9	96.7	21.2	106.0
Lithium	20								
Magnesium	5000		100	105	105.0	4960	99.2		
Manganese	15		3.0	3.3	110.0	16.2	108.0		
Molybdenum	20								
Nickel	10		4.0	4.2	105.0	10.8	108.0		
Palladium	50								
Potassium	5000		2000	1940	97.0	4920	98.4		
Selenium	10	20	5.0	5.6	112.0	11.7	117.0	21.6	108.0
Silicon	200								
Silver	5.0		1.0	0.70U	0.0* (a)	5.1	102.0		
Sodium	5000		1000	993	99.3	4990	99.8		
Sulfur	50								
Strontium	10								
Thallium	10		2.0	2.0	100.0	12.0	120.0		
Tin	10								
Titanium	10								
Tungsten	50								
Vanadium	50		2.0	1.9	95.0	54.4	108.8		
Zinc	20		10	11.0	110.0	22.4	112.0		

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JB70517
 Account: LANGAN - Langan Engineering & Environmental
 Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SC070114M1.ICP Date Analyzed: 07/01/14 Methods: EPA 200.7, SW846 6010C
 QC Limits: 70 to 130 % Recovery Run ID: MA34361 Units: ug/l

Time:				16:43		16:50		16:56	
Sample ID:	CRI	CRIA	CRID	CRID3		CRI2		CRIA2	
Metal	True	True	True	Results	% Rec	Results	% Rec	Results	% Rec

Zirconium 10

(*) Outside of QC limits

(anr) Analyte not requested

(a) No samples reported for this element at this RL in the area bracketed by this QC.

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JB70517
 Account: LANGAN - Langan Engineering & Environmental
 Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SC070114M1.ICP Date Analyzed: 07/01/14 Methods: EPA 200.7, SW846 6010C
 QC Limits: 70 to 130 % Recovery Run ID: MA34361 Units: ug/l

Time: Sample ID:	CRI	CRIA	CRID	17:02 CRID4	% Rec	21:56 CRID5	% Rec	22:02 CRI3	% Rec
Metal	True	True	True	Results		Results		Results	
Aluminum	200	500	100	90.9	90.9	106	106.0	196	98.0
Antimony	6.0	20	3.0	3.2	106.7	3.1	103.3	6.0	100.0
Arsenic	8.0	20	3.0	3.0	100.0	2.6	86.7	8.5	106.3
Barium	200		4.0	4.1	102.5	4.3	107.5	199	99.5
Beryllium	2.0		1.0	0.90	90.0	1.0	100.0	2.2	110.0
Bismuth	20								
Boron	100		10	anr					
Cadmium	3.0		1.0	1.0	100.0	1.0	100.0	3.3	110.0
Calcium	5000		1000	1030	103.0	1020	102.0	5030	100.6
Chromium	10		2.0	2.1	105.0	2.4	120.0	10.9	109.0
Cobalt	50		3.0	3.0	100.0	3.3	110.0	51.6	103.2
Copper	10		2.0	1.2	60.0*(a)	1.5	75.0	9.2	92.0
Iron	100	500						105	105.0
Lead	3.0	20	2.5	2.7	108.0	2.1	84.0	2.7	90.0
Lithium	20								
Magnesium	5000		100	98.9	98.9	76.2	76.2	4950	99.0
Manganese	15		3.0	3.2	106.7	3.2	106.7	16.1	107.3
Molybdenum	20								
Nickel	10		4.0	4.4	110.0	4.3	107.5	10.4	104.0
Palladium	50								
Potassium	5000		2000	1950	97.5	1980	99.0	4930	98.6
Selenium	10	20	5.0	5.9	118.0	4.9	98.0	11.6	116.0
Silicon	200								
Silver	5.0		1.0	0.60U	0.0* (a)	1.0	100.0	4.9	98.0
Sodium	5000		1000	1000	100.0	992	99.2	4940	98.8
Sulfur	50								
Strontium	10								
Thallium	10		2.0	2.4	120.0	2.0	100.0	11.7	117.0
Tin	10								
Titanium	10								
Tungsten	50								
Vanadium	50		2.0	1.9	95.0	2.0	100.0	53.5	107.0
Zinc	20		10	11.3	113.0	11.6	116.0	22.2	111.0

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JB70517
 Account: LANGAN - Langan Engineering & Environmental
 Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SC070114M1.ICP Date Analyzed: 07/01/14 Methods: EPA 200.7, SW846 6010C
 QC Limits: 70 to 130 % Recovery Run ID: MA34361 Units: ug/l

Time:				17:02		21:56		22:02	
Sample ID:	CRI	CRIA	CRID	CRID4		CRID5		CRID3	
Metal	True	True	True	Results	% Rec	Results	% Rec	Results	% Rec

Zirconium 10

(*) Outside of QC limits

(anr) Analyte not requested

(a) No samples reported for this element at this RL in the area bracketed by this QC.

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JB70517

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

File ID: SC070114M1.ICP
QC Limits: 70 to 130 % Recovery

Date Analyzed: 07/01/14
Run ID: MA34361

Methods: EPA 200.7, SW846 6010C
Units: ug/l

Time: Sample ID:	CRI	CRIA	CRID	22:08 CRIA3	% Rec	22:14 CRID6	% Rec	03:15 CRIA4	% Rec
Metal	True	True	True	Results		Results		Results	
Aluminum	200	500	100	485	97.0	85.2	85.2	194	97.0
Antimony	6.0	20	3.0	19.9	99.5	3.2	106.7	6.5	108.3
Arsenic	8.0	20	3.0	19.5	97.5	3.8	126.7	7.9	98.8
Barium	200		4.0			4.1	102.5	197	98.5
Beryllium	2.0		1.0			1.0	100.0	2.1	105.0
Bismuth	20								
Boron	100		10						
Cadmium	3.0		1.0			0.90	90.0	3.2	106.7
Calcium	5000		1000			1020	102.0	4950	99.0
Chromium	10		2.0			2.3	115.0	11.0	110.0
Cobalt	50		3.0			3.3	110.0	50.9	101.8
Copper	10		2.0			1.5	75.0	9.1	91.0
Iron	100	500		516	103.2			104	104.0
Lead	3.0	20	2.5	21.4	107.0	2.5	100.0	3.0	100.0
Lithium	20								
Magnesium	5000		100			88.0	88.0	4860	97.2
Manganese	15		3.0			3.2	106.7	15.9	106.0
Molybdenum	20								
Nickel	10		4.0			4.1	102.5	10.2	102.0
Palladium	50								
Potassium	5000		2000			2000	100.0	4910	98.2
Selenium	10	20	5.0	20.3	101.5	5.1	102.0	8.3	83.0
Silicon	200								
Silver	5.0		1.0			1.0	100.0	5.2	104.0
Sodium	5000		1000			997	99.7	4890	97.8
Sulfur	50								
Strontium	10								
Thallium	10		2.0			2.1	105.0	12.1	121.0
Tin	10								
Titanium	10								
Tungsten	50								
Vanadium	50		2.0			1.7	85.0	52.8	105.6
Zinc	20		10			11.5	115.0	21.9	109.5

10.1.5
10

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JB70517
 Account: LANGAN - Langan Engineering & Environmental
 Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SC070114M1.ICP Date Analyzed: 07/01/14 Methods: EPA 200.7, SW846 6010C
 QC Limits: 70 to 130 % Recovery Run ID: MA34361 Units: ug/l

Time:				22:08		22:14		03:15	
Sample ID:	CRI	CRIA	CRID	CRIA3		CRID6		CRI4	
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: JB70517
 Account: LANGAN - Langan Engineering & Environmental
 Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SC070114M1.ICP Date Analyzed: 07/01/14 Methods: EPA 200.7, SW846 6010C
 QC Limits: 70 to 130 % Recovery Run ID: MA34361 Units: ug/l

Time: Sample ID:	CRI	CRIA	CRID	03:21 CRID7	% Rec	03:27 CRIA4	% Rec	06:56 CRI5	% Rec
Metal	True	True	True	Results		Results		Results	
Aluminum	200	500	100	81.5	81.5	471	94.2	197	98.5
Antimony	6.0	20	3.0	3.6	120.0	20.0	100.0	6.7	111.7
Arsenic	8.0	20	3.0	3.6	120.0	19.7	98.5	8.8	110.0
Barium	200		4.0	4.1	102.5			196	98.0
Beryllium	2.0		1.0	1.0	100.0			2.1	105.0
Bismuth	20								
Boron	100		10	anr					
Cadmium	3.0		1.0	0.90	90.0			3.1	103.3
Calcium	5000		1000	1000	100.0			4910	98.2
Chromium	10		2.0	2.5	125.0			11.1	111.0
Cobalt	50		3.0	3.0	100.0			51.0	102.0
Copper	10		2.0	1.2	60.0*(a)			9.3	93.0
Iron	100	500				499	99.8	104	104.0
Lead	3.0	20	2.5	2.7	108.0	20.5	102.5	3.6	120.0
Lithium	20								
Magnesium	5000		100	110	110.0			4820	96.4
Manganese	15		3.0	3.1	103.3			15.8	105.3
Molybdenum	20								
Nickel	10		4.0	4.4	110.0			10.2	102.0
Palladium	50								
Potassium	5000		2000	1980	99.0			4900	98.0
Selenium	10	20	5.0	6.1	122.0	20.2	101.0	11.7	117.0
Silicon	200								
Silver	5.0		1.0	0.90	90.0			4.6	92.0
Sodium	5000		1000	974	97.4			4890	97.8
Sulfur	50								
Strontium	10								
Thallium	10		2.0	1.5	75.0			13.0	130.0
Tin	10								
Titanium	10								
Tungsten	50								
Vanadium	50		2.0	1.8	90.0			52.7	105.4
Zinc	20		10	11.5	115.0			22.0	110.0

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JB70517
 Account: LANGAN - Langan Engineering & Environmental
 Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SC070114M1.ICP Date Analyzed: 07/01/14 Methods: EPA 200.7, SW846 6010C
 QC Limits: 70 to 130 % Recovery Run ID: MA34361 Units: ug/l

Time:				03:21		03:27		06:56	
Sample ID:	CRI	CRIA	CRID	CRID7		CRIA4		CRI5	
Metal	True	True	True	Results	% Rec	Results	% Rec	Results	% Rec

Zirconium 10

(*) Outside of QC limits

(anr) Analyte not requested

(a) No samples reported for this element at this RL in the area bracketed by this QC.

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JB70517
 Account: LANGAN - Langan Engineering & Environmental
 Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SC070114M1.ICP Date Analyzed: 07/01/14 Methods: EPA 200.7, SW846 6010C
 QC Limits: 70 to 130 % Recovery Run ID: MA34361 Units: ug/l

Time: Sample ID:	CRI	CRIA	CRID	07:02 CRID8	% Rec	07:08 CRIA5	% Rec
Metal	True	True	True	Results		Results	
Aluminum	200	500	100	89.3	89.3	468	93.6
Antimony	6.0	20	3.0	3.6	120.0	19.3	96.5
Arsenic	8.0	20	3.0	2.9	96.7	20.1	100.5
Barium	200		4.0	4.0	100.0		
Beryllium	2.0		1.0	0.90	90.0		
Bismuth	20						
Boron	100		10	anr			
Cadmium	3.0		1.0	1.0	100.0		
Calcium	5000		1000	996	99.6		
Chromium	10		2.0	2.3	115.0		
Cobalt	50		3.0	3.1	103.3		
Copper	10		2.0	1.1	55.0*(a)		
Iron	100	500				495	99.0
Lead	3.0	20	2.5	2.5	100.0	20.7	103.5
Lithium	20						
Magnesium	5000		100	113	113.0		
Manganese	15		3.0	3.0	100.0		
Molybdenum	20						
Nickel	10		4.0	4.1	102.5		
Palladium	50						
Potassium	5000		2000	1960	98.0		
Selenium	10	20	5.0	1.90	0.0* (a)	20.4	102.0
Silicon	200						
Silver	5.0		1.0	0.70U	0.0* (a)		
Sodium	5000		1000	978	97.8		
Sulfur	50						
Strontium	10						
Thallium	10		2.0	1.8	90.0		
Tin	10						
Titanium	10						
Tungsten	50						
Vanadium	50		2.0	1.7	85.0		
Zinc	20		10	11.4	114.0		

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JB70517
 Account: LANGAN - Langan Engineering & Environmental
 Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SC070114M1.ICP Date Analyzed: 07/01/14 Methods: EPA 200.7, SW846 6010C
 QC Limits: 70 to 130 % Recovery Run ID: MA34361 Units: ug/l

Time:					07:02		07:08	
Sample ID:	CRI	CRIA	CRID		CRID8		CRIA5	
Metal	True	True	True		Results	% Rec	Results	% Rec

Zirconium 10

(*) Outside of QC limits
 (anr) Analyte not requested
 (a) No samples reported for this element at this RL in the area bracketed by this QC.

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: JB70517
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SC070114M1.ICP Date Analyzed: 07/01/14 Methods: EPA 200.7, SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA34361 Units: ug/l

Time: Sample ID:	ICSA True	ICSAB True	11:28 ICSA1 Results	% Rec	11:34 ICSAB1 Results	% Rec	17:08 ICSA2 Results	% Rec	17:14 ICSAB2 Results	% Rec
Metal										
Aluminum	500000	500000	503000	100.6	499000	99.8	507000	101.4	498000	99.6
Antimony		1000	0.0		997	99.7	0.40		998	99.8
Arsenic		1000	2.6		1020	102.0	2.8		1010	101.0
Barium		500	-1.2		479	95.8	-1.2		474	94.8
Beryllium		500	0.70		480	96.0	0.70		476	95.2
Bismuth		500	25.8		517	103.4	25.5		519	103.8
Boron			-0.70		4.8		-0.90		5.3	
Cadmium		1000	1.4		996	99.6	1.4		990	99.0
Calcium	400000	400000	379000	94.8	375000	93.8	379000	94.8	372000	93.0
Chromium		500	-1.6		482	96.4	-1.5		479	95.8
Cobalt		500	0.50		482	96.4	0.70		480	96.0
Copper		500	-0.80		490	98.0	-0.60		486	97.2
Iron	200000	200000	187000	93.5	186000	93.0	185000	92.5	183000	91.5
Lead		1000	-0.30		946	94.6	1.1		945	94.5
Lithium		500	2.7		507	101.4	3.1		503	100.6
Magnesium	500000	500000	491000	98.2	492000	98.4	487000	97.4	485000	97.0
Manganese		500	0.60		487	97.4	0.10		481	96.2
Molybdenum		500	1.5		489	97.8	0.80		487	97.4
Nickel		1000	1.0		937	93.7	0.90		937	93.7
Palladium		500	-34		489	97.8	-33		490	98.0
Potassium			-5.3		30.5		-4.4		45.4	
Selenium		1000	4.9		1000	100.0	0.90		993	99.3
Silicon			-8.7		-7.1		-6.5		-5.8	
Silver		1000	1.4		1010	101.0	-2.1		1000	100.0
Sodium			-32		-24		-20		-21	
Sulfur		500	-31		463	92.6	-28		462	92.4
Strontium			-5.0		-4.9		-4.9		-4.8	
Thallium		1000	1.5		947	94.7	1.5		942	94.2
Tin			-3.1		-2.8		-4.1		-3.4	
Titanium			2.3		1.6		1.5		2.0	
Tungsten		500	-39		493	98.6	-47		479	95.8
Vanadium		500	4.3		487	97.4	3.9		482	96.4
Zinc		1000	0.20		935	93.5	0.40		921	92.1

10.1.6
10

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: JB70517
 Account: LANGAN - Langan Engineering & Environmental
 Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SC070114M1.ICP Date Analyzed: 07/01/14 Methods: EPA 200.7, SW846 6010C
 QC Limits: 80 to 120 % Recovery Run ID: MA34361 Units: ug/l

Time:				11:28		11:34		17:08		17:14	
Sample ID:	ICSAB	ICSAB	ICSAB	ICSAB1	% Rec	ICSAB1	% Rec	ICSAB2	% Rec	ICSAB2	% Rec
Metal	True	True	True	Results		Results		Results		Results	

Zirconium	500	0.60		454	90.8	0.0		445	89.0
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(*) Outside of QC limits
 (anr) Analyte not requested

10.1.6
 10

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB70517
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: H8070214S1.CSV Date Analyzed: 07/02/14 Methods: SW846 7471B
Analyst: DP Run ID: MA34366
Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
12:35	MA34366-STD1	1		B=1.4220e-004, C=-4.0712e-004, R=0.9998868
12:36	MA34366-STD2	1		STDB
12:37	MA34366-STD3	1		STDC
12:39	MA34366-STD4	1		STDD
12:40	MA34366-STD5	1		STDE
12:42	MA34366-STD6	1		STDF
12:45	MA34366-ICV1	1		
12:46	MA34366-ICB1	1		
12:48	MA34366-CCV1	1		
12:49	MA34366-CCB1	1		
12:51	MA34366-CRI1	1		
13:09	MP80436-MB1	1		
13:10	MP80436-LC1	2		
13:11	MP80436-S1	1		
13:13	MP80436-S2	1		
13:15	JB70517-1	1		
13:16	JB70517-2	1		
----->	Last reportable sample/prep for job JB70517			
13:17	ZZZZZZ	1		
13:19	MA34366-CCV2	1		
13:20	MA34366-CCB2	1		
13:22	ZZZZZZ	1		
13:23	ZZZZZZ	1		
13:25	ZZZZZZ	1		
13:26	ZZZZZZ	1		
13:27	ZZZZZZ	1		
13:29	ZZZZZZ	1		
13:30	ZZZZZZ	1		
13:31	ZZZZZZ	1		
13:33	ZZZZZZ	1		
13:34	ZZZZZZ	1		
13:35	MA34366-CCV3	1		
13:37	MA34366-CCB3	1		
13:38	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB70517

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

File ID: H8070214S1.CSV

Date Analyzed: 07/02/14

Methods: SW846 7471B

Analyst: DP

Run ID: MA34366

Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
13:40	ZZZZZZ	1		
13:41	ZZZZZZ	1		
13:43	ZZZZZZ	10		
13:45	ZZZZZZ	1		
13:46	ZZZZZZ	1		
13:48	ZZZZZZ	1		
13:49	MP80437-MB1	1		See rerun, Ran after very high
13:51	MP80437-LC1	2		
13:53	MA34366-CCV4	1		
13:54	MA34366-CCB4	1		
13:56	MP80437-S1	1		
13:57	MP80437-S2	1		
13:59	JB69705-3R	1		(sample used for QC only; not part of login JB70517)
14:00	ZZZZZZ	1		
14:02	ZZZZZZ	1		
14:03	ZZZZZZ	1		
14:04	ZZZZZZ	1		
14:06	ZZZZZZ	1		
14:07	ZZZZZZ	1		
14:09	MA34366-CCV5	1		
14:10	MA34366-CCB5	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		
14:20	ZZZZZZ	1		
14:21	ZZZZZZ	1		
14:23	ZZZZZZ	1		
14:24	MA34366-CCV6	1		
14:25	MA34366-CCB6	1		
14:27	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB70517

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

File ID: H8070214S1.CSV

Date Analyzed: 07/02/14

Methods: SW846 7471B

Analyst: DP

Run ID: MA34366

Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
14:28	ZZZZZZ	1		
14:30	ZZZZZZ	1		
14:31	ZZZZZZ	1		
14:32	MP80438-MB1	1		
14:34	MP80438-LC1	2		
14:35	MP80438-S1	1		%Sol
14:37	MP80438-S2	1		%Sol
14:38	JB70644-10	1		(sample used for QC only; not part of login JB70517)
14:40	MA34366-CCV7	1		
14:41	MA34366-CCB7	1		
14:58	ZZZZZZ	1		
14:59	ZZZZZZ	1		
15:01	ZZZZZZ	1		
15:02	ZZZZZZ	1		
15:03	ZZZZZZ	1		
15:05	ZZZZZZ	1		
15:06	ZZZZZZ	1		
15:07	ZZZZZZ	1		
15:09	ZZZZZZ	1		
15:10	MA34366-CCV8	1		
15:11	MA34366-CCB8	1		
15:51	ZZZZZZ	1		
15:53	MP80437-MB1	1		
15:54	ZZZZZZ	2		
15:55	ZZZZZZ	10		
15:57	ZZZZZZ	1		
15:59	ZZZZZZ	10		
16:00	ZZZZZZ	2		
16:07	MA34366-CRI2	1		
16:09	MA34366-CCV9	1		
16:10	MA34366-CCB9	1		
16:30	ZZZZZZ	1		
16:32	ZZZZZZ	1		

-----> Last reportable CCB for job JB70517

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB70517

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

File ID: H8070214S1.CSV

Date Analyzed: 07/02/14

Methods: SW846 7471B

Analyst: DP

Run ID: MA34366

Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
16:33	ZZZZZZ	1		
16:34	ZZZZZZ	1		
16:36	ZZZZZZ	1		
16:37	ZZZZZZ	1		
16:38	ZZZZZZ	1		
16:52	ZZZZZZ	10		
16:54	ZZZZZZ	1		
16:56	MA34366-CCV10	1		
16:57	MA34366-CCB10	1		

Refer to raw data for calibration curve and standards.

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB70517
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: H8070214S1.CSV Date Analyzed: 07/02/14 Methods: SW846 7471B
QC Limits: result < RL Run ID: MA34366 Units: ug/l

Time: Sample ID:			12:46 ICB1		12:49 CCB1		13:20 CCB2		13:37 CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Mercury	0.20	.031	-0.015	<0.20	-0.011	<0.20	-0.012	<0.20	-0.018	<0.20

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB70517
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: H8070214S1.CSV Date Analyzed: 07/02/14 Methods: SW846 7471B
QC Limits: result < RL Run ID: MA34366 Units: ug/l

Time: Sample ID:		13:54 CCB4		14:10 CCB5		14:25 CCB6		14:41 CCB7		
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Mercury	0.20	.031	-0.027	<0.20	-0.0077	<0.20	-0.016	<0.20	-0.014	<0.20

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB70517
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: H8070214S1.CSV Date Analyzed: 07/02/14 Methods: SW846 7471B
QC Limits: result < RL Run ID: MA34366 Units: ug/l

Time:		15:11		16:10		
Sample ID:		CCB8		CCB9		
Metal	RL	IDL	raw	final	raw	final
Mercury	0.20	.031	-0.0089	<0.20	-0.0013	<0.20

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB70517

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

File ID: H8070214S1.CSV Date Analyzed: 07/02/14 Methods: SW846 7471B
QC Limits: 90 to 110 % Recovery Run ID: MA34366 Units: ug/l

Time:		12:45			12:48			13:19		
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2		
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec	
Mercury	3.0	3.0	100.0	2.5	2.6	104.0	2.5	2.5	100.0	

(*) Outside of QC limits
(anr) Analyte not requested

10.2.2
10

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB70517

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

File ID: H8070214S1.CSV Date Analyzed: 07/02/14 Methods: SW846 7471B
QC Limits: 90 to 110 % Recovery Run ID: MA34366 Units: ug/l

Time:		13:35		13:53		14:09			
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Mercury	2.5	2.5	100.0	2.5	2.5	100.0	2.5	2.6	104.0

(*) Outside of QC limits
(anr) Analyte not requested

10.2.2
10

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB70517

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

File ID: H8070214S1.CSV Date Analyzed: 07/02/14 Methods: SW846 7471B
QC Limits: 90 to 110 % Recovery Run ID: MA34366 Units: ug/l

Time:		14:24		14:40		15:10	
Sample ID:	CCV	CCV6	CCV	CCV7	CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True
Mercury	2.5	2.6	104.0	2.5	2.5	100.0	2.5

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB70517

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

File ID: H8070214S1.CSV Date Analyzed: 07/02/14 Methods: SW846 7471B
QC Limits: 90 to 110 % Recovery Run ID: MA34366 Units: ug/l

Time:	16:09
Sample ID: CCV	CCV9
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: JB70517

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

File ID: H8070214S1.CSV Date Analyzed: 07/02/14 Methods: SW846 7471B
QC Limits: 70 to 130 % Recovery Run ID: MA34366 Units: ug/l

Time:				12:51		16:07	
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

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB70517

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

File ID: SA070214M2.ICP Date Analyzed: 07/02/14 Methods: EPA 200.7, SW846 6010C
Analyst: ND Run ID: MA34378
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
21:51	MA34378-STD1	1		STDA
21:57	MA34378-STD2	1		STDB
22:04	ZZZZZZ	1		
22:10	ZZZZZZ	1		
22:16	MA34378-ICV1	1		
22:23	MA34378-ICB1	1		
22:29	MA34378-CCV1	1		
22:35	MA34378-CCB1	1		
22:41	MA34378-CRI1	1		
22:47	MA34378-CRID1	1		
22:53	MA34378-CRIA1	1		
23:00	MA34378-CRID2	1		
23:06	MA34378-ICSA1	1		
23:12	MA34378-ICSAB1	1		
23:18	ZZZZZZ	1		
23:25	ZZZZZZ	1		
23:31	MA34378-CCV2	1		
23:37	MA34378-CCB2	1		
23:43	MP80425-MB1	1		
23:49	MP80425-LC1	1		
23:55	MP80425-S1	1		
00:02	MP80425-S2	1		
00:08	JB70577-1F	1		(sample used for QC only; not part of login JB70517)
00:14	MP80425-SD1	5		
00:20	ZZZZZZ	1		
00:27	ZZZZZZ	1		
00:33	ZZZZZZ	1		
00:39	MA34378-CCV3	1		
00:45	MA34378-CCB3	1		
00:51	ZZZZZZ	1		
00:58	ZZZZZZ	1		
01:04	ZZZZZZ	1		
01:10	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB70517

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

File ID: SA070214M2.ICP Date Analyzed: 07/02/14 Methods: EPA 200.7, SW846 6010C
Analyst: ND Run ID: MA34378
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
01:16	ZZZZZZ	1		
01:23	ZZZZZZ	1		
01:29	ZZZZZZ	1		
01:35	ZZZZZZ	1		
01:41	ZZZZZZ	1		
01:48	MA34378-CCV4	1		
01:54	MA34378-CCB4	1		
02:00	MP80388-MB1	1		High results
02:06	MP80388-LC1	1		
02:12	ZZZZZZ	1		
02:18	ZZZZZZ	1		
02:24	JB70517-3	1		
02:31	JB70517-4	1		
----->	Last reportable sample/			prep for job JB70517
02:37	ZZZZZZ	1		
02:43	MP80414-MB1	1		
02:49	MP80414-B1	1		
02:55	MP80414-S1	1		
03:01	MA34378-CCV5	1		
03:08	MA34378-CCB5	1		
03:14	MP80414-S2	1		
03:20	JB70480-1A	1		(sample used for QC only; not part of login JB70517)
03:26	MP80414-SD1	5		
03:32	ZZZZZZ	10		
03:39	ZZZZZZ	1		
03:45	ZZZZZZ	1		
03:51	ZZZZZZ	1		
03:58	ZZZZZZ	1		
04:04	ZZZZZZ	1		
04:10	ZZZZZZ	1		
04:17	MA34378-CCV6	1		
04:23	MA34378-CCB6	1		
04:29	ZZZZZZ	1		
04:36	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB70517

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

File ID: SA070214M2.ICP Date Analyzed: 07/02/14 Methods: EPA 200.7, SW846 6010C
Analyst: ND Run ID: MA34378
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
04:42	ZZZZZZ	1		
04:49	MA34378-CCV7	1		
04:55	MA34378-CCB7	1		
05:01	MA34378-CRI2	1		
05:07	MA34378-CRID3	1		
05:13	MA34378-CRIA2	1		
05:20	MA34378-ICSA2	1		
05:26	MA34378-ICSAB2	1		
05:32	MA34378-CCV8	1		
05:38	MA34378-CCB8	1		
05:45	ZZZZZZ	1		
05:51	ZZZZZZ	1		
05:57	ZZZZZZ	1		
06:03	ZZZZZZ	1		
06:10	ZZZZZZ	1		
06:16	ZZZZZZ	1		
06:22	ZZZZZZ	1		
06:28	ZZZZZZ	1		
08:27	MP80388-MB1	1		
08:38	ZZZZZZ	1		
08:42	ZZZZZZ	1		

Refer to raw data for calibration curve and standards.

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10.3
10

INTERNAL STANDARD SUMMARY

Login Number: JB70517

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

File ID: SA070214M2.ICP Date Analyzed: 07/02/14 Methods: EPA 200.7, SW846 6010C
 Analyst: ND Run ID: MA34378
 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
21:51	MA34378-STD1	3076 R	199800 R	47142 R	8039 R
21:57	MA34378-STD2	2876	184650	46400	7592
22:04	ZZZZZZ	2963	190420	46737	7749
22:10	ZZZZZZ	3068	198810	46994	8019
22:16	MA34378-ICV1	2963	190440	46565	7738
22:23	MA34378-ICB1	3065	200010	47152	8004
22:29	MA34378-CCV1	2959	190410	46438	7730
22:35	MA34378-CCB1	3062	199990	47257	8007
22:41	MA34378-CRI1	3036	197830	46881	7935
22:47	MA34378-CRID1	No results reported for the elements associated with this internal standard.			
22:53	MA34378-CRIA1	3067	200030	47290	8007
23:00	MA34378-CRID2	3057	198260	46763	7986
23:06	MA34378-ICSA1	2756	176260	45659	7105
23:12	MA34378-ICSAB1	2750	176190	45703	7120
23:18	ZZZZZZ	3037	196820	46803	8189
23:25	ZZZZZZ	3016	199950	47196	8007
23:31	MA34378-CCV2	2954	190330	47039	7721
23:37	MA34378-CCB2	3065	199250	47067	8002
23:43	MP80425-MB1	3050	200170	47535	7987
23:49	MP80425-LC1	3016	196680	47160	7894
23:55	MP80425-S1	2893	187630	46515	7500
00:02	MP80425-S2	2891	187020	46056	7502
00:08	JB70577-1F	2934	190060	46474	7617
00:14	MP80425-SD1	3032	196630	46797	7928
00:20	ZZZZZZ	2930	190080	46678	7611
00:27	ZZZZZZ	2917	189930	46446	7603
00:33	ZZZZZZ	2935	190500	46443	7643
00:39	MA34378-CCV3	2957	190510	46925	7731
00:45	MA34378-CCB3	3058	199960	47373	7986
00:51	ZZZZZZ	2924	190920	46841	7624
00:58	ZZZZZZ	2897	188720	46505	7538
01:04	ZZZZZZ	3047	200270	47520	7981
01:10	ZZZZZZ	2938	191420	46813	7660

INTERNAL STANDARD SUMMARY

Login Number: JB70517

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

File ID: SA070214M2.ICP

Date Analyzed: 07/02/14

Methods: EPA 200.7, SW846 6010C

Analyst: ND

Run ID: MA34378

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
01:16	ZZZZZZ	2911	190300	46093	7573
01:23	ZZZZZZ	2915	188580	46282	7545
01:29	ZZZZZZ	2976	191440	46708	7730
01:35	ZZZZZZ	3006	197060	47268	7870
01:41	ZZZZZZ	2925	188660	46573	7575
01:48	MA34378-CCV4	2964	190820	46815	7740
01:54	MA34378-CCB4	3076	200560	47289	8044
02:00	MP80388-MB1	3051	200470	47347	7983
02:06	MP80388-LC1	3013	197180	47236	7888
02:12	ZZZZZZ	3058	201010	47776	8013
02:18	ZZZZZZ	3067	201150	47452	8017
02:24	JB70517-3	3076	200590	47521	8040
02:31	JB70517-4	3093	201000	47648	8075
02:37	ZZZZZZ	3071	204240	47425	8019
02:43	MP80414-MB1	2799	172910	45666	6938
02:49	MP80414-B1	2812	175900	45902	7014
02:55	MP80414-S1	2793	175640	46458	6950
03:01	MA34378-CCV5	2970	191230	47009	7750
03:08	MA34378-CCB5	3083	200470	47249	8052
03:14	MP80414-S2	2789	175710	46302	6945
03:20	JB70480-1A	2780	175090	46234	6919
03:26	MP80414-SD1	2953	188570	46870	7582
03:32	ZZZZZZ	2957	191560	47067	7657
03:39	ZZZZZZ	2567	162840	44192	6285
03:45	ZZZZZZ	2545	158040	43468	6146
03:51	ZZZZZZ	2443	154360	43187	5966
03:58	ZZZZZZ	2550	158240	44303	6100
04:04	ZZZZZZ	2705	172470	45330	6753
04:10	ZZZZZZ	2545	162660	43559	6348
04:17	MA34378-CCV6	2970	191120	47056	7758
04:23	MA34378-CCB6	3084	200600	47532	8046
04:29	ZZZZZZ	2651	162670	44899	6494
04:36	ZZZZZZ	2735	174500	45136	6856

INTERNAL STANDARD SUMMARY

Login Number: JB70517

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

File ID: SA070214M2.ICP Date Analyzed: 07/02/14 Methods: EPA 200.7, SW846 6010C
 Analyst: ND Run ID: MA34378
 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
04:42	ZZZZZZ	2636	165880	44330	6549
04:49	MA34378-CCV7	2982	191640	47128	7783
04:55	MA34378-CCB7	3090	200830	47697	8068
05:01	MA34378-CRI2	3060	199060	47120	7979
05:07	MA34378-CRID3	3083	200700	47573	8049
05:13	MA34378-CRIA2	3092	201480	47611	8069
05:20	MA34378-ICSA2	2757	176760	45586	7119
05:26	MA34378-ICSAB2	2762	176820	45739	7149
05:32	MA34378-CCV8	2989	192300	47013	7794
05:38	MA34378-CCB8	3088	201320	47384	8049
05:45	ZZZZZZ	3082	200710	47399	8041
05:51	ZZZZZZ	3093	200280	47028	8061
05:57	ZZZZZZ	3099	201130	47681	8076
06:03	ZZZZZZ	3086	200920	46769	8046
06:10	ZZZZZZ	3087	199550	47219	8047
06:16	ZZZZZZ	2881	185670	45473	7460
06:22	ZZZZZZ	3097	201630	47624	8089
06:28	ZZZZZZ	2896	185830	45826	7469
08:27	MP80388-MB1	No results reported for the elements associated with this internal standard.			
08:38	ZZZZZZ	3117	202560	47956	8119
08:42	ZZZZZZ	3120	204120	47660	8129

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 %

10.3.1
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BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB70517
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA070214M2.ICP Date Analyzed: 07/02/14 Methods: EPA 200.7, SW846 6010C
QC Limits: result < RL Run ID: MA34378 Units: ug/l

Time: Sample ID:	RL	IDL	22:23 ICB1 raw	final	22:35 CCB1 raw	final	23:37 CCB2 raw	final	00:45 CCB3 raw	final
Metal										
Aluminum	200	9.9	1.7	<200	3.8	<200	4.3	<200	4.0	<200
Antimony	6.0	3	-0.20	<6.0	0.40	<6.0	-0.10	<6.0	0.50	<6.0
Arsenic	3.0	.82	0.20	<3.0	0.20	<3.0	0.10	<3.0	-0.30	<3.0
Barium	200	.24	0.30	<200	0.30	<200	0.20	<200	0.20	<200
Beryllium	1.0	.01	0.20	<1.0	0.20	<1.0	0.10	<1.0	0.10	<1.0
Bismuth	20	1.4								
Boron	100	.09								
Cadmium	3.0	.2	0.30	<3.0	0.30	<3.0	0.30	<3.0	0.30	<3.0
Calcium	5000	41	4.8	<5000	3.7	<5000	2.6	<5000	2.8	<5000
Chromium	10	.3	0.20	<10	0.30	<10	0.20	<10	0.10	<10
Cobalt	50	.25	0.20	<50	0.10	<50	0.30	<50	0.20	<50
Copper	10	.37	-0.30	<10	0.0	<10	-0.10	<10	-0.20	<10
Iron	100	2.1	4.2	<100	4.5	<100	4.5	<100	3.2	<100
Lead	3.0	1.1	-0.50	<3.0	0.0	<3.0	0.30	<3.0	-0.40	<3.0
Lithium	20	1.9								
Magnesium	5000	11	-0.70	<5000	6.5	<5000	8.8	<5000	-0.10	<5000
Manganese	15	.05	0.20	<15	0.20	<15	0.10	<15	0.10	<15
Molybdenum	20	.47								
Nickel	10	.3	0.10	<10	0.0	<10	0.20	<10	0.0	<10
Palladium	50	.7								
Potassium	10000	40	45.4	<10000	27.1	<10000	27.3	<10000	34.1	<10000
Selenium	10	1.4	-1.2	<10	-1.4	<10	-2.4	<10	-2.1	<10
Silicon	200	7.6								
Silver	10	.54	0.10	<10	0.10	<10	-0.10	<10	-0.10	<10
Sodium	10000	12	0.80	<10000	4.4	<10000	-11	<10000	-5.7	<10000
Sulfur	50	2.4								
Strontium	10	.15								
Thallium	2.0	1.3	-0.80	<2.0	-0.30	<2.0	0.10	<2.0	-0.50	<2.0
Tin	10	.69								
Titanium	10	.68								
Tungsten	50	7.4								
Vanadium	50	.28	0.40	<50	0.20	<50	0.30	<50	0.40	<50
Zinc	20	.92	-0.80	<20	-0.80	<20	-0.60	<20	-0.50	<20

10.3.2 10

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB70517
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA070214M2.ICP Date Analyzed: 07/02/14 Methods: EPA 200.7, SW846 6010C
QC Limits: result < RL Run ID: MA34378 Units: ug/l

Time: Sample ID:			22:23 ICB1		22:35 CCB1		23:37 CCB2		00:45 CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final

Zirconium 10 .39

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB70517
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA070214M2.ICP Date Analyzed: 07/02/14 Methods: EPA 200.7, SW846 6010C
QC Limits: result < RL Run ID: MA34378 Units: ug/l

Time: Sample ID:	RL	IDL	01:54 CCB4 raw	final	03:08 CCB5 raw	final	04:23 CCB6 raw	final	04:55 CCB7 raw	final
Metal										
Aluminum	200	9.9	-5.6	<200	-1.4	<200	-1.9	<200	-2.9	<200
Antimony	6.0	3	-0.20	<6.0	0.10	<6.0	-0.20	<6.0	-0.30	<6.0
Arsenic	3.0	.82	-0.90	<3.0	-0.40	<3.0	0.0	<3.0	-0.50	<3.0
Barium	200	.24	0.0	<200	0.10	<200	0.10	<200	0.20	<200
Beryllium	1.0	.01	0.0	<1.0	0.0	<1.0	0.10	<1.0	0.10	<1.0
Bismuth	20	1.4								
Boron	100	.09								
Cadmium	3.0	.2	0.0	<3.0	0.10	<3.0	0.10	<3.0	0.20	<3.0
Calcium	5000	41	-1.3	<5000	0.20	<5000	0.90	<5000	4.2	<5000
Chromium	10	.3	0.10	<10	0.10	<10	0.10	<10	0.30	<10
Cobalt	50	.25	0.0	<50	-0.10	<50	0.10	<50	0.0	<50
Copper	10	.37	-0.30	<10	-0.30	<10	-0.20	<10	-0.10	<10
Iron	100	2.1	-0.50	<100	0.20	<100	1.1	<100	3.7	<100
Lead	3.0	1.1	-0.20	<3.0	0.10	<3.0	-0.50	<3.0	-0.10	<3.0
Lithium	20	1.9								
Magnesium	5000	11	-6.7	<5000	-2.1	<5000	0.0	<5000	-0.20	<5000
Manganese	15	.05	0.0	<15	0.0	<15	0.10	<15	0.10	<15
Molybdenum	20	.47								
Nickel	10	.3	-0.10	<10	0.0	<10	0.0	<10	0.20	<10
Palladium	50	.7								
Potassium	10000	40	29.6	<10000	32.7	<10000	61.0	<10000	95.9	<10000
Selenium	10	1.4	-1.4	<10	-1.3	<10	-1.8	<10	-1.0	<10
Silicon	200	7.6								
Silver	10	.54	0.10	<10	-0.20	<10	0.10	<10	0.0	<10
Sodium	10000	12	-7.1	<10000	21.4	<10000	74.4	<10000	71.7	<10000
Sulfur	50	2.4								
Strontium	10	.15								
Thallium	2.0	1.3	-0.50	<2.0	0.20	<2.0	0.20	<2.0	0.10	<2.0
Tin	10	.69								
Titanium	10	.68								
Tungsten	50	7.4								
Vanadium	50	.28	0.20	<50	0.30	<50	0.30	<50	0.40	<50
Zinc	20	.92	-0.40	<20	-0.50	<20	-0.50	<20	-0.50	<20

10.3.2 10

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB70517
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA070214M2.ICP Date Analyzed: 07/02/14 Methods: EPA 200.7, SW846 6010C
QC Limits: result < RL Run ID: MA34378 Units: ug/l

Time: Sample ID:			01:54 CCB4		03:08 CCB5		04:23 CCB6		04:55 CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final

Zirconium 10 .39

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB70517
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA070214M2.ICP Date Analyzed: 07/02/14 Methods: EPA 200.7, SW846 6010C
QC Limits: result < RL Run ID: MA34378 Units: ug/l

Time: Sample ID:		05:38 CCB8		
Metal	RL	IDL	raw	final
Aluminum	200	9.9	0.60	<200
Antimony	6.0	3	0.10	<6.0
Arsenic	3.0	.82	0.30	<3.0
Barium	200	.24	0.0	<200
Beryllium	1.0	.01	0.0	<1.0
Bismuth	20	1.4		
Boron	100	.09		
Cadmium	3.0	.2	0.10	<3.0
Calcium	5000	41	2.4	<5000
Chromium	10	.3	-0.10	<10
Cobalt	50	.25	0.20	<50
Copper	10	.37	-0.20	<10
Iron	100	2.1	0.70	<100
Lead	3.0	1.1	-0.50	<3.0
Lithium	20	1.9		
Magnesium	5000	11	4.6	<5000
Manganese	15	.05	0.0	<15
Molybdenum	20	.47		
Nickel	10	.3	0.0	<10
Palladium	50	.7		
Potassium	10000	40	58.0	<10000
Selenium	10	1.4	-1.2	<10
Silicon	200	7.6		
Silver	10	.54	0.10	<10
Sodium	10000	12	17.4	<10000
Sulfur	50	2.4		
Strontium	10	.15		
Thallium	2.0	1.3	-0.10	<2.0
Tin	10	.69		
Titanium	10	.68		
Tungsten	50	7.4		
Vanadium	50	.28	0.20	<50
Zinc	20	.92	0.50	<20

10.3.2
10

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB70517
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA070214M2.ICP Date Analyzed: 07/02/14 Methods: EPA 200.7, SW846 6010C
QC Limits: result < RL Run ID: MA34378 Units: ug/l

Time:		05:38	
Sample ID:		CCB8	
Metal	RL	IDL	raw final

Zirconium 10 .39

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB70517
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA070214M2.ICP Date Analyzed: 07/02/14 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA34378 Units: ug/l

Time: Sample ID:	ICV	22:16 ICV1		CCV	22:29 CCV1		CCV	23:31 CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	39400	98.5	40000	39300	98.3	40000	39000	97.5
Antimony	2000	1980	99.0	2000	1980	99.0	2000	1990	99.5
Arsenic	2000	2000	100.0	2000	2000	100.0	2000	1990	99.5
Barium	2000	1990	99.5	2000	1980	99.0	2000	1980	99.0
Beryllium	2000	2030	101.5	2000	2030	101.5	2000	2000	100.0
Bismuth									
Boron									
Cadmium	2000	2000	100.0	2000	1990	99.5	2000	1990	99.5
Calcium	40000	40900	102.3	40000	41000	102.5	40000	40500	101.3
Chromium	2000	2010	100.5	2000	2020	101.0	2000	2010	100.5
Cobalt	2000	2010	100.5	2000	2010	100.5	2000	2020	101.0
Copper	2000	1960	98.0	2000	1960	98.0	2000	1960	98.0
Iron	40000	40800	102.0	40000	40900	102.3	40000	40700	101.8
Lead	2000	2020	101.0	2000	2030	101.5	2000	2030	101.5
Lithium									
Magnesium	40000	40100	100.3	40000	40100	100.3	40000	39600	99.0
Manganese	2000	2040	102.0	2000	2050	102.5	2000	2040	102.0
Molybdenum									
Nickel	2000	2030	101.5	2000	2030	101.5	2000	2030	101.5
Palladium									
Potassium	40000	39500	98.8	40000	39400	98.5	40000	39000	97.5
Selenium	2000	2000	100.0	2000	2000	100.0	2000	2010	100.5
Silicon									
Silver	250	245	98.0	250	244	97.6	250	244	97.6
Sodium	40000	40200	100.5	40000	40300	100.8	40000	40000	100.0
Sulfur									
Strontium									
Thallium	2000	2060	103.0	2000	2050	102.5	2000	2050	102.5
Tin									
Titanium									
Tungsten									
Vanadium	2000	1990	99.5	2000	1990	99.5	2000	1990	99.5
Zinc	2000	2050	102.5	2000	2050	102.5	2000	2040	102.0

10.3.3
10

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB70517
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA070214M2.ICP Date Analyzed: 07/02/14 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA34378 Units: ug/l

Time:		22:16			22:29			23:31		
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: JB70517
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA070214M2.ICP Date Analyzed: 07/02/14 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA34378 Units: ug/l

Time: Sample ID:	CCV	00:39 CCV3		CCV	01:48 CCV4		CCV	03:01 CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	39000	97.5	40000	39400	98.5	40000	39300	98.3
Antimony	2000	1990	99.5	2000	2000	100.0	2000	1990	99.5
Arsenic	2000	2000	100.0	2000	1990	99.5	2000	1990	99.5
Barium	2000	1990	99.5	2000	2010	100.5	2000	2010	100.5
Beryllium	2000	2010	100.5	2000	2050	102.5	2000	2050	102.5
Bismuth									
Boron									
Cadmium	2000	1990	99.5	2000	2000	100.0	2000	2000	100.0
Calcium	40000	40700	101.8	40000	41000	102.5	40000	40900	102.3
Chromium	2000	2020	101.0	2000	2030	101.5	2000	2020	101.0
Cobalt	2000	2020	101.0	2000	2040	102.0	2000	2040	102.0
Copper	2000	1970	98.5	2000	1980	99.0	2000	1970	98.5
Iron	40000	40800	102.0	40000	41000	102.5	40000	40900	102.3
Lead	2000	2030	101.5	2000	2040	102.0	2000	2040	102.0
Lithium									
Magnesium	40000	39800	99.5	40000	40200	100.5	40000	40000	100.0
Manganese	2000	2050	102.5	2000	2040	102.0	2000	2040	102.0
Molybdenum									
Nickel	2000	2030	101.5	2000	2050	102.5	2000	2050	102.5
Palladium									
Potassium	40000	39100	97.8	40000	39500	98.8	40000	39300	98.3
Selenium	2000	2010	100.5	2000	2020	101.0	2000	2020	101.0
Silicon									
Silver	250	244	97.6	250	247	98.8	250	246	98.4
Sodium	40000	40100	100.3	40000	40200	100.5	40000	40100	100.3
Sulfur									
Strontium									
Thallium	2000	2050	102.5	2000	2070	103.5	2000	2070	103.5
Tin									
Titanium									
Tungsten									
Vanadium	2000	2000	100.0	2000	2000	100.0	2000	1990	99.5
Zinc	2000	2040	102.0	2000	2060	103.0	2000	2060	103.0

10.3.3
10

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB70517
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA070214M2.ICP Date Analyzed: 07/02/14 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA34378 Units: ug/l

Time:		00:39			01:48			03:01		
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: JB70517
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA070214M2.ICP Date Analyzed: 07/02/14 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA34378 Units: ug/l

Time: Sample ID:	CCV	04:17 CCV6 Results	% Rec	CCV	04:49 CCV7 Results	% Rec	CCV	05:32 CCV8 Results	% Rec
Metal	True			True			True		
Aluminum	40000	39200	98.0	40000	39300	98.3	40000	39500	98.8
Antimony	2000	1990	99.5	2000	1980	99.0	2000	1990	99.5
Arsenic	2000	1990	99.5	2000	1990	99.5	2000	2000	100.0
Barium	2000	2000	100.0	2000	2000	100.0	2000	2010	100.5
Beryllium	2000	2020	101.0	2000	2020	101.0	2000	2030	101.5
Bismuth									
Boron									
Cadmium	2000	2000	100.0	2000	2000	100.0	2000	2010	100.5
Calcium	40000	40800	102.0	40000	40800	102.0	40000	41000	102.5
Chromium	2000	2020	101.0	2000	2020	101.0	2000	2010	100.5
Cobalt	2000	2020	101.0	2000	2020	101.0	2000	2030	101.5
Copper	2000	1970	98.5	2000	1960	98.0	2000	1960	98.0
Iron	40000	40900	102.3	40000	40800	102.0	40000	40900	102.3
Lead	2000	2030	101.5	2000	2030	101.5	2000	2040	102.0
Lithium									
Magnesium	40000	40000	100.0	40000	40000	100.0	40000	40300	100.8
Manganese	2000	2040	102.0	2000	2050	102.5	2000	2040	102.0
Molybdenum									
Nickel	2000	2040	102.0	2000	2040	102.0	2000	2050	102.5
Palladium									
Potassium	40000	39100	97.8	40000	39200	98.0	40000	39500	98.8
Selenium	2000	2020	101.0	2000	2020	101.0	2000	2020	101.0
Silicon									
Silver	250	247	98.8	250	246	98.4	250	247	98.8
Sodium	40000	39800	99.5	40000	39800	99.5	40000	40100	100.3
Sulfur									
Strontium									
Thallium	2000	2060	103.0	2000	2060	103.0	2000	2070	103.5
Tin									
Titanium									
Tungsten									
Vanadium	2000	1990	99.5	2000	1990	99.5	2000	1990	99.5
Zinc	2000	2050	102.5	2000	2050	102.5	2000	2060	103.0

10.3.3
10

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB70517
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA070214M2.ICP Date Analyzed: 07/02/14 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA34378 Units: ug/l

Time:		04:17		04:49		05:32	
Sample ID:	CCV	CCV6	CCV	CCV7	CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True

Zirconium

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JB70517
 Account: LANGAN - Langan Engineering & Environmental
 Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA070214M2.ICP Date Analyzed: 07/02/14 Methods: EPA 200.7, SW846 6010C
 QC Limits: 70 to 130 % Recovery Run ID: MA34378 Units: ug/l

Time: Sample ID:	CRI	CRIA	CRID	22:41 CRI1	% Rec	22:53 CRIA1	% Rec	23:00 CRID2	% Rec
Metal	True	True	True	Results		Results		Results	
Aluminum	200	500	100	203	101.5	483	96.6	98.0	98.0
Antimony	6.0	20	3.0	6.2	103.3	20.3	101.5		
Arsenic	8.0	20	3.0	7.8	97.5	19.5	97.5	2.1	70.0
Barium	200		4.0	205	102.5			4.1	102.5
Beryllium	2.0		1.0	2.1	105.0			1.0	100.0
Bismuth	20								
Boron	100		10						
Cadmium	3.0		1.0	3.3	110.0			1.1	110.0
Calcium	5000		1000	5190	103.8			1070	107.0
Chromium	10		2.0	10.7	107.0			2.3	115.0
Cobalt	50		3.0	52.7	105.4			3.0	100.0
Copper	10		2.0	9.5	95.0			1.7	85.0
Iron	100	500		110	110.0	532	106.4		
Lead	3.0	20	2.5	3.2	106.7	20.1	100.5	2.6	104.0
Lithium	20								
Magnesium	5000		100	5130	102.6			111	111.0
Manganese	15		3.0	16.1	107.3			3.3	110.0
Molybdenum	20								
Nickel	10		4.0	10.8	108.0			4.2	105.0
Palladium	50								
Potassium	5000		2000	5040	100.8			2040	102.0
Selenium	10	20	5.0	12.1	121.0	20.2	101.0	3.9	78.0
Silicon	200								
Silver	5.0		1.0	4.7	94.0			0.90	90.0
Sodium	5000		1000	5110	102.2			1010	101.0
Sulfur	50								
Strontium	10								
Thallium	10		2.0	11.7	117.0			1.9	95.0
Tin	10								
Titanium	10								
Tungsten	50								
Vanadium	50		2.0	54.0	108.0			2.3	115.0
Zinc	20		10	21.2	106.0				

10.3.4
10

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JB70517
 Account: LANGAN - Langan Engineering & Environmental
 Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA070214M2.ICP Date Analyzed: 07/02/14 Methods: EPA 200.7, SW846 6010C
 QC Limits: 70 to 130 % Recovery Run ID: MA34378 Units: ug/l

Time:				22:41		22:53		23:00	
Sample ID:	CRI	CRIA	CRID	CRI1		CRIA1		CRID2	
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: JB70517
 Account: LANGAN - Langan Engineering & Environmental
 Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA070214M2.ICP Date Analyzed: 07/02/14 Methods: EPA 200.7, SW846 6010C
 QC Limits: 70 to 130 % Recovery Run ID: MA34378 Units: ug/l

Time: Sample ID:	CRI	CRIA	CRID	05:01 CRI2	% Rec	05:07 CRID3	% Rec	05:13 CRIA2	% Rec
Metal	True	True	True	Results		Results		Results	
Aluminum	200	500	100	203	101.5	99.7	99.7	493	98.6
Antimony	6.0	20	3.0	6.5	108.3			19.6	98.0
Arsenic	8.0	20	3.0	8.9	111.3	2.5	83.3	19.7	98.5
Barium	200		4.0	205	102.5	4.2	105.0		
Beryllium	2.0		1.0	2.2	110.0	1.0	100.0		
Bismuth	20								
Boron	100		10						
Cadmium	3.0		1.0	3.4	113.3	1.2	120.0		
Calcium	5000		1000	5180	103.6	1060	106.0		
Chromium	10		2.0	10.8	108.0	2.1	105.0		
Cobalt	50		3.0	52.5	105.0	3.0	100.0		
Copper	10		2.0	9.8	98.0	1.7	85.0		
Iron	100	500		109	109.0			532	106.4
Lead	3.0	20	2.5	3.1	103.3	2.2	88.0	20.9	104.5
Lithium	20								
Magnesium	5000		100	5120	102.4	106	106.0		
Manganese	15		3.0	16.1	107.3	3.2	106.7		
Molybdenum	20								
Nickel	10		4.0	10.9	109.0	4.1	102.5		
Palladium	50								
Potassium	5000		2000	5080	101.6	2050	102.5		
Selenium	10	20	5.0	11.5	115.0	5.2	104.0	19.8	99.0
Silicon	200								
Silver	5.0		1.0	5.0	100.0	0.80	80.0		
Sodium	5000		1000	5120	102.4	1050	105.0		
Sulfur	50								
Strontium	10								
Thallium	10		2.0	11.6	116.0	1.5	75.0		
Tin	10								
Titanium	10								
Tungsten	50								
Vanadium	50		2.0	53.9	107.8	2.2	110.0		
Zinc	20		10	21.3	106.5				

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JB70517
 Account: LANGAN - Langan Engineering & Environmental
 Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA070214M2.ICP Date Analyzed: 07/02/14 Methods: EPA 200.7, SW846 6010C
 QC Limits: 70 to 130 % Recovery Run ID: MA34378 Units: ug/l

Time:				05:01		05:07		05:13	
Sample ID:	CRI	CRIA	CRID	CRI2	% Rec	CRID3	% 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: JB70517

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

File ID: SA070214M2.ICP Date Analyzed: 07/02/14 Methods: EPA 200.7, SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA34378 Units: ug/l

Time: Sample ID:	ICSA True	ICSAB True	23:06 ICSA1 Results	% Rec	23:12 ICSAB1 Results	% Rec	05:20 ICSA2 Results	% Rec	05:26 ICSAB2 Results	% Rec
Metal										
Aluminum	500000	500000	487000	97.4	489000	97.8	497000	99.4	492000	98.4
Antimony		1000	1.2		1020	102.0	2.1		1020	102.0
Arsenic		1000	-2.0		1010	101.0	-1.8		1010	101.0
Barium		500	-0.40		483	96.6	-0.40		481	96.2
Beryllium		500	-0.10		488	97.6	0.0		489	97.8
Bismuth		500	1.7		488	97.6	0.90		490	98.0
Boron			0.0		-0.70		-0.90		-1.4	
Cadmium		1000	0.50		1000	100.0	0.50		1010	101.0
Calcium	400000	400000	376000	94.0	373000	93.3	380000	95.0	372000	93.0
Chromium		500	-0.60		478	95.6	-0.40		477	95.4
Cobalt		500	-0.90		479	95.8	-1.2		477	95.4
Copper		500	1.5		500	100.0	1.7		500	100.0
Iron	200000	200000	186000	93.0	185000	92.5	186000	93.0	187000	93.5
Lead		1000	-0.80		946	94.6	1.1		941	94.1
Lithium		500	6.5		494	98.8	6.0		494	98.8
Magnesium	500000	500000	514000	102.8	515000	103.0	513000	102.6	517000	103.4
Manganese		500	2.7		489	97.8	2.6		490	98.0
Molybdenum		500	-2.7		489	97.8	-2.7		488	97.6
Nickel		1000	-1.7		957	95.7	-1.9		956	95.6
Palladium		500	14.5		538	107.6	14.7		541	108.2
Potassium			108		139		156		165	
Selenium		1000	0.10		985	98.5	1.3		992	99.2
Silicon			17.4		19.5		16.5		18.9	
Silver		1000	7.7		1010	101.0	8.2		1010	101.0
Sodium			5.5		-0.30		53.2		53.4	
Sulfur		500	43.4		539	107.8	65.5		554	110.8
Strontium			-6.1		-6.0		-6.3		-6.1	
Thallium		1000	-1.0		965	96.5	-2.0		964	96.4
Tin			-1.2		-1.6		-1.5		-1.5	
Titanium			0.70		1.2		0.60		1.2	
Tungsten		500	2.8		498	99.6	1.7		500	100.0
Vanadium		500	0.60		474	94.8	0.40		471	94.2
Zinc		1000	-0.20		966	96.6	-0.10		966	96.6

10.3.5
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INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: JB70517

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

File ID: SA070214M2.ICP Date Analyzed: 07/02/14 Methods: EPA 200.7, SW846 6010C
 QC Limits: 80 to 120 % Recovery Run ID: MA34378 Units: ug/l

Time:				23:06		23:12		05:20		05:26	
Sample ID:	ICSAB	ICSAB	ICSAB	ICSAB1	% Rec	ICSAB1	% Rec	ICSAB2	% Rec	ICSAB2	% Rec
Metal	True	True	True	Results		Results		Results		Results	

Zirconium	500	-1.0		486	97.2	-1.1		487	97.4
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(*) Outside of QC limits
 (anr) Analyte not requested

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB70517

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

File ID: SA070314M1.ICP

Date Analyzed: 07/03/14

Methods: EPA 200.7, SW846 6010C

Analyst: ND

Run ID: MA34381

Parameters: Cr,Fe,Ni

Time	Sample Description	Dilution Factor	PS Recov	Comments
10:08	MA34381-STD1	1		STDA
10:14	MA34381-STD2	1		STDB
10:21	ZZZZZZ	1		
10:27	ZZZZZZ	1		
10:34	MA34381-ICV1	1		
10:48	MA34381-ICB1	1		
10:54	MA34381-ICCV1	1		
11:04	MA34381-CCB1	1		
11:10	MA34381-CRI1	1		
11:17	MA34381-CRID1	1		See rerun.
11:23	MA34381-CRIA1	1		Not needed.
11:29	MA34381-CRID2	1		
11:35	MA34381-ICSA1	1		
11:42	MA34381-ICSAB1	1		
11:48	ZZZZZZ	1		
11:54	ZZZZZZ	1		
12:00	MA34381-CCV1	1		
12:06	MA34381-CCB2	1		
12:13	MP80415-B1	1		
12:19	MP80415-S1	1		
12:25	MP80415-S2	1		
12:31	JB69614-2R	1		(sample used for QC only; not part of login JB70517)
12:37	MP80415-SD1	5		
12:43	MP80415-MB1	1		
12:49	MP80388-MB1	1		
----->	Last reportable sample/prep for job JB70517			
12:55	MA34381-ICSA2	1		
13:01	MA34381-ICSAB2	1		
13:08	MA34381-CCV2	1		
13:14	MA34381-CCB3	1		
----->	Last reportable CCB for job JB70517			
13:20	MP80447-MB1	1		
13:26	MP80447-B1	1		
13:32	MP80447-S1	1		
13:39	MP80447-S2	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB70517

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

File ID: SA070314M1.ICP
Analyst: ND
Parameters: Cr,Fe,Ni

Date Analyzed: 07/03/14
Run ID: MA34381

Methods: EPA 200.7, SW846 6010C

Time	Sample Description	Dilution Factor	PS Recov	Comments
13:45	JB70705-11	1		(sample used for QC only; not part of login JB70517)
13:51	MP80447-SD1	5		
13:57	ZZZZZZ	1		
14:03	ZZZZZZ	1		
14:10	ZZZZZZ	1		
14:16	MA34381-CCV3	1		
14:22	MA34381-CCB4	1		
14:28	ZZZZZZ	1		
14:34	ZZZZZZ	1		
14:41	ZZZZZZ	1		
14:47	ZZZZZZ	1		
14:53	ZZZZZZ	1		
15:00	ZZZZZZ	1		
15:06	ZZZZZZ	1		
15:12	ZZZZZZ	1		
15:18	MP80453-LC1	1		
15:24	MA34381-CCV4	1		
15:30	MA34381-CCB5	1		
15:37	ZZZZZZ	1		
15:43	ZZZZZZ	1		
15:49	ZZZZZZ	1		
15:55	ZZZZZZ	1		
16:01	ZZZZZZ	1		
16:07	MP80453-MB1	1		
16:13	MA34381-CRID3	1		
16:20	MA34381-CRI2	1		
16:26	MA34381-CCV5	1		
16:32	MA34381-CCB6	1		

Refer to raw data for calibration curve and standards.

10.4
10

INTERNAL STANDARD SUMMARY

Login Number: JB70517

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

File ID: SA070314M1.ICP

Date Analyzed: 07/03/14

Methods: EPA 200.7, SW846 6010C

Analyst: ND

Run ID: MA34381

Parameters: Cr,Fe,Ni

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
10:08	MA34381-STD1	3093 R	199770 R	47505 R	8033 R
10:14	MA34381-STD2	2930	185980	46921	7684
10:21	ZZZZZ	2998	192360	47402	7795
10:27	ZZZZZ	3105	200670	47232	8059
10:34	MA34381-ICV1	3000	194890	47741	7811
10:48	MA34381-ICB1	3116	200830	48195	8083
10:54	MA34381-ICCV1	3011	192860	47420	7828
11:04	MA34381-CCB1	3108	199570	47807	8066
11:10	MA34381-CRI1	3091	199100	47798	8025
11:17	MA34381-CRID1	No results reported for the elements associated with this internal standard.			
11:23	MA34381-CRIA1	No results reported for the elements associated with this internal standard.			
11:29	MA34381-CRID2	3101	202000	47778	8049
11:35	MA34381-ICSA1	2787	177680	45672	7168
11:42	MA34381-ICSAB1	2793	178100	46225	7202
11:48	ZZZZZ	3069	199250	47844	8236
11:54	ZZZZZ	3059	201380	47588	8085
12:00	MA34381-CCV1	2991	192450	47064	7788
12:06	MA34381-CCB2	3106	201150	47785	8084
12:13	MP80415-B1	3081	202860	48891	8049
12:19	MP80415-S1	3083	200670	48483	8041
12:25	MP80415-S2	3063	199270	48400	7991
12:31	JB69614-2R	3062	199930	48600	8006
12:37	MP80415-SD1	3089	200890	48359	8065
12:43	MP80415-MB1	3084	202160	48422	8048
12:49	MP80388-MB1	3097	200930	47919	8056
12:55	MA34381-ICSA2	2777	177120	46174	7164
13:01	MA34381-ICSAB2	2775	177950	46158	7176
13:08	MA34381-CCV2	3006	192190	47352	7823
13:14	MA34381-CCB3	3101	201320	48369	8071
13:20	MP80447-MB1	3081	202850	48679	8061
13:26	MP80447-B1	3040	196790	48606	7969
13:32	MP80447-S1	3036	197820	49196	7838
13:39	MP80447-S2	3048	197600	48995	7801

INTERNAL STANDARD SUMMARY

Login Number: JB70517

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

File ID: SA070314M1.ICP

Date Analyzed: 07/03/14

Methods: EPA 200.7, SW846 6010C

Analyst: ND

Run ID: MA34381

Parameters: Cr,Fe,Ni

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
13:45	JB70705-11	3071	197710	50221	7805
13:51	MP80447-SD1	3102	201820	48253	8042
13:57	ZZZZZZ	2972	193850	48319	7454
14:03	ZZZZZZ	2972	192160	48927	7481
14:10	ZZZZZZ	2950	191480	48457	7386
14:16	MA34381-CCV3	2997	191840	47290	7806
14:22	MA34381-CCB4	3102	201150	47845	8081
14:28	ZZZZZZ	2964	193220	48535	7432
14:34	ZZZZZZ	2973	193280	48693	7461
14:41	ZZZZZZ	3000	194850	48504	7609
14:47	ZZZZZZ	2990	194630	48747	7551
14:53	ZZZZZZ	2966	190150	49772	7470
15:00	ZZZZZZ	2967	193570	49040	7457
15:06	ZZZZZZ	3035	198190	49290	7684
15:12	ZZZZZZ	3056	194110	49729	7767
15:18	MP80453-LC1	3034	200490	49188	7963
15:24	MA34381-CCV4	2974	190980	47832	7789
15:30	MA34381-CCB5	3086	201440	47859	8051
15:37	ZZZZZZ	3086	202960	49304	8089
15:43	ZZZZZZ	3080	202450	49539	8075
15:49	ZZZZZZ	3008	193450	48188	7735
15:55	ZZZZZZ	3010	192700	48219	7726
16:01	ZZZZZZ	2937	190800	49074	7551
16:07	MP80453-MB1	3065	202050	49399	8042
16:13	MA34381-CRID3	3075	200660	48061	8027
16:20	MA34381-CRI2	3075	200680	47778	8026
16:26	MA34381-CCV5	3002	192850	47805	7836
16:32	MA34381-CCB6	3082	204870	48631	8049

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 %

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB70517
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA070314M1.ICP Date Analyzed: 07/03/14 Methods: EPA 200.7, SW846 6010C
QC Limits: result < RL Run ID: MA34381 Units: ug/l

Time: Sample ID:			10:48 ICB1		11:04 CCB1		12:06 CCB2		13:14 CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	9.9	anr							
Antimony	6.0	3	anr							
Arsenic	3.0	.82	anr							
Barium	200	.24	anr							
Beryllium	1.0	.01	anr							
Bismuth	20	1.4								
Boron	100	.09								
Cadmium	3.0	.2	anr							
Calcium	5000	41	anr							
Chromium	10	.3	0.10	<10	0.0	<10	-0.10	<10	0.10	<10
Cobalt	50	.25	anr							
Copper	10	.37	anr							
Iron	100	2.1	1.7	<100	2.3	<100	-1.0	<100	1.6	<100
Lead	3.0	1.1	anr							
Lithium	20	1.9								
Magnesium	5000	11	anr							
Manganese	15	.05	anr							
Molybdenum	20	.47								
Nickel	10	.3	0.10	<10	0.20	<10	0.10	<10	0.30	<10
Palladium	50	.7								
Potassium	10000	40	anr							
Selenium	10	1.4	anr							
Silicon	200	7.6								
Silver	10	.54	anr							
Sodium	10000	12	anr							
Sulfur	50	2.4								
Strontium	10	.15								
Thallium	2.0	1.3	anr							
Tin	10	.69								
Titanium	10	.68								
Tungsten	50	7.4								
Vanadium	50	.28	anr							
Zinc	20	.92	anr							

10.4.2
10

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB70517
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA070314M1.ICP Date Analyzed: 07/03/14 Methods: EPA 200.7, SW846 6010C
QC Limits: result < RL Run ID: MA34381 Units: ug/l

Time: Sample ID:			10:48 ICB1		11:04 CCB1		12:06 CCB2		13:14 CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final

Zirconium 10 .39

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial Continuing Calibration Check

Login Number: JB70517

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

File ID: SA070314M1.ICP
QC Limits: 95 to 105 % Recovery

Date Analyzed: 07/03/14
Run ID: MA34381

Methods: EPA 200.7, SW846 6010C
Units: ug/l

Time: Sample ID: ICCV		10:54 ICCV1		
Metal	True	Results	% Rec	
Aluminum	anr			
Antimony	anr			
Arsenic	anr			
Barium	anr			
Beryllium	anr			
Bismuth				
Boron				
Cadmium	anr			
Calcium	anr			
Chromium	2000	1990	99.5	
Cobalt	anr			
Copper	anr			
Iron	40000	40500	101.3	
Lead	anr			
Lithium				
Magnesium	anr			
Manganese	anr			
Molybdenum				
Nickel	2000	2030	101.5	
Palladium				
Potassium	anr			
Selenium	anr			
Silicon				
Silver	anr			
Sodium	anr			
Sulfur				
Strontium				
Thallium	anr			
Tin				
Titanium				
Tungsten				
Vanadium	anr			
Zinc	anr			

10.4.3
10

CALIBRATION CHECK STANDARDS SUMMARY
Initial Continuing Calibration Check

Login Number: JB70517

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

File ID: SA070314M1.ICP Date Analyzed: 07/03/14 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA34381 Units: ug/l

Time:	10:54
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: JB70517

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

File ID: SA070314M1.ICP Date Analyzed: 07/03/14 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA34381 Units: ug/l

Time: Sample ID:	ICV	10:34 ICV1		CCV	12:00 CCV1		CCV	13:08 CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Bismuth									
Boron									
Cadmium	anr								
Calcium	anr								
Chromium	2000	1960	98.0	2000	2000	100.0	2000	2000	100.0
Cobalt	anr								
Copper	anr								
Iron	40000	40800	102.0	40000	40900	102.3	40000	40700	101.8
Lead	anr								
Lithium									
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	2000	2030	101.5	2000	2040	102.0	2000	2030	101.5
Palladium									
Potassium	anr								
Selenium	anr								
Silicon									
Silver	anr								
Sodium	anr								
Sulfur									
Strontium									
Thallium	anr								
Tin									
Titanium									
Tungsten									
Vanadium	anr								
Zinc	anr								

10.4.4
10

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB70517
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA070314M1.ICP Date Analyzed: 07/03/14 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA34381 Units: ug/l

Time:		10:34			12:00			13:08		
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

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JB70517

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

File ID: SA070314M1.ICP
QC Limits: 70 to 130 % Recovery

Date Analyzed: 07/03/14
Run ID: MA34381

Methods: EPA 200.7, SW846 6010C
Units: ug/l

Time: Sample ID:	CRI	CRIA	CRID	11:10 CRI1	% Rec	11:29 CRID2	% Rec
Metal	True	True	True	Results		Results	
Aluminum	200	500	100	anr			
Antimony	6.0	20	3.0	anr			
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	anr			
Chromium	10		2.0	10.4	104.0	2.0	100.0
Cobalt	50		3.0	anr			
Copper	10		2.0	anr			
Iron	100	500		109	109.0		
Lead	3.0	20	2.5	anr			
Lithium	20						
Magnesium	5000		100	anr			
Manganese	15		3.0	anr			
Molybdenum	20						
Nickel	10		4.0	10.8	108.0	4.4	110.0
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	anr			

10.4.5
10

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JB70517
 Account: LANGAN - Langan Engineering & Environmental
 Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA070314M1.ICP Date Analyzed: 07/03/14 Methods: EPA 200.7, SW846 6010C
 QC Limits: 70 to 130 % Recovery Run ID: MA34381 Units: ug/l

Time:					11:10		11:29	
Sample ID:	CRI	CRIA	CRID		CRI1		CRID2	
Metal	True	True	True		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: JB70517

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

File ID: SA070314M1.ICP Date Analyzed: 07/03/14 Methods: EPA 200.7, SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA34381 Units: ug/l

Time: Sample ID:	ICSA True	ICSAB True	11:35 ICSA1 Results	% Rec	11:42 ICSAB1 Results	% Rec	12:55 ICSA2 Results	% Rec	13:01 ICSAB2 Results	% Rec
Metal										
Aluminum	500000	500000	493000	98.6	485000	97.0	499000	99.8	495000	99.0
Antimony		1000	0.90		1010	101.0	2.0		1020	102.0
Arsenic		1000	-3.8		1000	100.0	-4.8		1010	101.0
Barium		500	-0.60		479	95.8	-0.60		480	96.0
Beryllium		500	0.0		481	96.2	0.0		480	96.0
Bismuth		500	2.1		489	97.8	1.6		491	98.2
Boron			-0.40		-1.3		-0.40		-3.3	
Cadmium		1000	0.90		1000	100.0	0.70		1010	101.0
Calcium	400000	400000	381000	95.3	369000	92.3	377000	94.3	373000	93.3
Chromium		500	-0.90		468	93.6	-0.70		468	93.6
Cobalt		500	-1.3		474	94.8	-1.0		474	94.8
Copper		500	1.8		492	98.4	2.2		494	98.8
Iron	200000	200000	186000	93.0	184000	92.0	186000	93.0	185000	92.5
Lead		1000	-1.3		940	94.0	2.1		941	94.1
Lithium		500	4.5		487	97.4	4.8		485	97.0
Magnesium	500000	500000	514000	102.8	509000	101.8	507000	101.4	508000	101.6
Manganese		500	3.9		483	96.6	3.4		486	97.2
Molybdenum		500	-2.2		487	97.4	-2.7		488	97.6
Nickel		1000	-1.6		950	95.0	-1.9		949	94.9
Palladium		500	11.3		534	106.8	11.5		536	107.2
Potassium			176		164		154		169	
Selenium		1000	0.60		988	98.8	-0.30		995	99.5
Silicon			16.1		16.4		15.5		16.1	
Silver		1000	5.0		996	99.6	2.7		999	99.9
Sodium			10.7		5.4		3.0		3.1	
Sulfur		500	45.3		530	106.0	45.7		536	107.2
Strontium			-6.2		-6.0		-6.0		-6.1	
Thallium		1000	2.8		958	95.8	1.4		960	96.0
Tin			-1.5		-0.80		-1.4		-0.90	
Titanium			1.1		0.90		0.80		1.0	
Tungsten		500	3.0		504	100.8	-0.60		501	100.2
Vanadium		500	0.30		462	92.4	0.0		463	92.6
Zinc		1000	-0.10		959	95.9	0.0		959	95.9

10.4.6
10

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: JB70517
 Account: LANGAN - Langan Engineering & Environmental
 Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA070314M1.ICP Date Analyzed: 07/03/14 Methods: EPA 200.7, SW846 6010C
 QC Limits: 80 to 120 % Recovery Run ID: MA34381 Units: ug/l

Time:				11:35		11:42		12:55		13:01	
Sample ID:	ICSAB	ICSAB	ICSAB	ICSAB1	% Rec	ICSAB1	% Rec	ICSAB2	% Rec	ICSAB2	% Rec
Metal	True	True	True	Results		Results		Results		Results	

Zirconium	500	-0.90		484	96.8	-1.2		487	97.4
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(*) Outside of QC limits
 (anr) Analyte not requested

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB70517

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

File ID: SA070314M2.ICP

Date Analyzed: 07/03/14

Methods: EPA 200.7, SW846 6010C

Analyst: ND

Run ID: MA34391

Parameters: Al,Ba,Be,Fe,Tl

Time	Sample Description	Dilution Factor	PS Recov	Comments
17:34	MA34391-STD1	1		STDA
17:40	MA34391-STD2	1		STDB
17:46	ZZZZZZ	1		
17:53	ZZZZZZ	1		
17:59	MA34391-ICV1	1		
18:05	MA34391-ICB1	1		
18:11	MA34391-CCV1	1		
18:17	MA34391-CCB1	1		
18:24	MA34391-CRI1	1		
18:30	MA34391-CRID1	1		
18:36	MA34391-CRIA1	1		
18:42	MA34391-CRID2	1		
18:48	MA34391-ICSA1	1		
18:55	MA34391-ICSAB1	1		
19:01	ZZZZZZ	1		
19:07	ZZZZZZ	1		
19:13	MA34391-CCV2	1		
19:20	MA34391-CCB2	1		
19:26	MP80451-MB1	1		
19:32	MP80451-LC1	1		
19:38	MP80451-S1	1		
19:44	MP80451-S2	1		
19:50	JB70718-4	1		(sample used for QC only; not part of login JB70517)
19:57	MP80451-SD1	5		
20:03	ZZZZZZ	1		
20:09	ZZZZZZ	1		
20:15	ZZZZZZ	1		
20:22	MA34391-CCV3	1		
20:28	MA34391-CCB3	1		
20:34	ZZZZZZ	1		
20:40	ZZZZZZ	1		
20:46	ZZZZZZ	1		
20:53	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB70517

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

File ID: SA070314M2.ICP
Analyst: ND
Parameters: Al,Ba,Be,Fe,Tl

Date Analyzed: 07/03/14 Methods: EPA 200.7, SW846 6010C
Run ID: MA34391

Time	Sample Description	Dilution Factor	PS Recov	Comments
20:59	ZZZZZZ	1		
21:05	ZZZZZZ	1		
21:11	ZZZZZZ	1		
21:18	ZZZZZZ	1		
21:24	ZZZZZZ	1		
21:30	MA34391-CCV4	1		
21:37	MA34391-CCB4	1		
21:43	ZZZZZZ	1		
21:49	ZZZZZZ	1		
21:55	ZZZZZZ	1		
22:01	ZZZZZZ	1		
22:08	ZZZZZZ	1		
22:14	ZZZZZZ	1		
22:20	ZZZZZZ	1		
22:26	ZZZZZZ	1		
22:32	MP80392-B1	1		
22:38	MA34391-CCV5	1		
22:45	MA34391-CCB5	1		
22:51	MP80392-S1	1		
22:57	MP80392-S2	1		
23:03	JB70517-1	1		
23:09	MP80392-SD1	5		
----->	Last reportable sample/prep for job JB70517			
23:15	ZZZZZZ	1		
23:22	MP80418-SD1	5		
23:28	ZZZZZZ	2		
23:34	ZZZZZZ	2		
23:40	MP80458-B1	1		
23:46	MA34391-CCV6	1		
23:53	MA34391-CCB6	1		
23:59	MP80458-MB1	1		
00:05	MP80458-S1	1		
00:11	MP80458-S2	1		
00:17	JB70399-1	1		(sample used for QC only; not part of login JB70517)

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10

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB70517

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

File ID: SA070314M2.ICP

Date Analyzed: 07/03/14

Methods: EPA 200.7, SW846 6010C

Analyst: ND

Run ID: MA34391

Parameters: Al,Ba,Be,Fe,Tl

Time	Sample Description	Dilution Factor	PS Recov	Comments
00:23	MP80458-SD1	5		
00:29	MA34391-CCV7	1		
00:36	MA34391-CCB7	1		
00:42	MA34391-CRI2	1		
00:48	MA34391-CRID3	1		
00:54	MA34391-CRIA2	1		
01:00	MA34391-ICSA2	1		
01:07	MA34391-ICSAB2	1		
01:13	MA34391-CCV8	1		
01:19	MA34391-CCB8	1		
01:25	MP80459-MB1	1		
01:32	MP80459-B1	1		
01:38	MP80459-S1	1		
01:44	MP80459-S2	1		
01:50	JB70647-2AB	1		(sample used for QC only; not part of login JB70517)
01:57	MP80459-SD1	5		
02:03	MP80462-MB1	1		
02:09	MP80462-B1	1		
02:15	MP80462-S1	1		
02:22	MP80462-S2	1		
02:28	MA34391-CCV9	1		
02:34	MA34391-CCB9	1		
02:40	JB70647-1AB	1		(sample used for QC only; not part of login JB70517)
02:47	MP80462-SD1	5		
02:53	MP80460-MB1	1		
02:59	MP80460-B1	1		
03:05	MP80460-S1	1		
03:11	MP80460-S2	1		
03:17	JB70629-1	1		(sample used for QC only; not part of login JB70517)
03:24	MP80460-SD1	5		
03:30	MA34391-CCV10	1		
03:36	MA34391-CCB10	1		
03:42	MA34391-CRI3	1		

----->

Last reportable CCB for job JB70517

10.5
10

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB70517

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

File ID: SA070314M2.ICP
Analyst: ND
Parameters: Al,Ba,Be,Fe,Tl

Date Analyzed: 07/03/14 Methods: EPA 200.7, SW846 6010C
Run ID: MA34391

Time	Sample Description	Dilution Factor	PS Recov	Comments
03:48	MA34391-CRID4	1		
03:54	MA34391-CRIA3	1		
04:01	MA34391-CCV11	1		
04:07	MA34391-CCB11	1		
04:13	ZZZZZZ	1		
04:19	ZZZZZZ	1		
04:26	ZZZZZZ	1		
04:32	ZZZZZZ	1		
04:38	ZZZZZZ	1		
04:44	ZZZZZZ	1		
04:50	ZZZZZZ	1		
04:57	ZZZZZZ	1		

Refer to raw data for calibration curve and standards.

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10

INTERNAL STANDARD SUMMARY

Login Number: JB70517

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

File ID: SA070314M2.ICP

Date Analyzed: 07/03/14

Methods: EPA 200.7, SW846 6010C

Analyst: ND

Run ID: MA34391

Parameters: Al,Ba,Be,Fe,Tl

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
17:34	MA34391-STD1	3086 R	199680 R	48768 R	8058 R
17:40	MA34391-STD2	2897	186970	47688	7640
17:46	ZZZZZZ	2985	192600	47660	7804
17:53	ZZZZZZ	3087	201520	48357	8049
17:59	MA34391-ICV1	2970	192540	47527	7764
18:05	MA34391-ICB1	3068	202750	48371	8004
18:11	MA34391-CCV1	2983	192450	47412	7785
18:17	MA34391-CCB1	3085	201910	48012	8054
18:24	MA34391-CRI1	3069	199960	48045	8007
18:30	MA34391-CRID1	No results reported for the elements associated with this internal standard.			
18:36	MA34391-CRIA1	3091	202340	48109	8060
18:42	MA34391-CRID2	3084	201670	48068	8043
18:48	MA34391-ICSA1	2778	178470	46519	7188
18:55	MA34391-ICSAB1	2760	178810	46923	7184
19:01	ZZZZZZ	3050	199760	48099	8237
19:07	ZZZZZZ	3048	202090	48409	8091
19:13	MA34391-CCV2	2985	193260	47993	7816
19:20	MA34391-CCB2	3099	202860	48606	8087
19:26	MP80451-MB1	3077	203340	48612	8048
19:32	MP80451-LC1	3032	200090	48235	7951
19:38	MP80451-S1	2898	189520	47478	7546
19:44	MP80451-S2	2899	189980	47482	7531
19:50	JB70718-4	2955	190560	47203	7673
19:57	MP80451-SD1	3106	199670	48424	8094
20:03	ZZZZZZ	3008	194440	47813	7789
20:09	ZZZZZZ	2983	192890	47441	7736
20:15	ZZZZZZ	2971	191970	47375	7680
20:22	MA34391-CCV3	3050	194200	48101	7932
20:28	MA34391-CCB3	3147	203210	47887	8195
20:34	ZZZZZZ	3021	195730	48007	7828
20:40	ZZZZZZ	3015	195800	47639	7811
20:46	ZZZZZZ	3159	204570	48613	8211
20:53	ZZZZZZ	3094	198650	48419	8105

INTERNAL STANDARD SUMMARY

Login Number: JB70517

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

File ID: SA070314M2.ICP

Date Analyzed: 07/03/14

Methods: EPA 200.7, SW846 6010C

Analyst: ND

Run ID: MA34391

Parameters: Al,Ba,Be,Fe,Tl

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
20:59	ZZZZZZ	3000	193500	47460	7761
21:05	ZZZZZZ	2981	191870	47328	7723
21:11	ZZZZZZ	2993	192220	47018	7742
21:18	ZZZZZZ	2967	190750	47107	7655
21:24	ZZZZZZ	3031	196000	47263	7850
21:30	MA34391-CCV4	3063	195500	47525	7951
21:37	MA34391-CCB4	3180	203990	48574	8257
21:43	ZZZZZZ	3010	194210	47408	7787
21:49	ZZZZZZ	3155	205170	48364	8204
21:55	ZZZZZZ	2878	180190	46691	7043
22:01	ZZZZZZ	2809	174990	45631	6880
22:08	ZZZZZZ	3147	205090	48334	8180
22:14	ZZZZZZ	3157	204960	48416	8203
22:20	ZZZZZZ	3140	204430	49016	8126
22:26	ZZZZZZ	3155	205540	48806	8209
22:32	MP80392-B1	3097	200310	47939	8092
22:38	MA34391-CCV5	3066	196200	47751	7962
22:45	MA34391-CCB5	3161	205530	48533	8207
22:51	MP80392-S1	3188	204280	50496	8150
22:57	MP80392-S2	3177	203620	50151	8157
23:03	JB70517-1	3201	206280	50952	8181
23:09	MP80392-SD1	3183	205250	48867	8225
23:15	ZZZZZZ	3165	206480	48742	8246
23:22	MP80418-SD1	No results reported for the elements associated with this internal standard.			
23:28	ZZZZZZ	2980	186910	47188	7437
23:34	ZZZZZZ	2944	183580	46471	7343
23:40	MP80458-B1	2895	178100	46968	7168
23:46	MA34391-CCV6	3041	199290	47014	7903
23:53	MA34391-CCB6	3169	205460	48417	8225
23:59	MP80458-MB1	2881	178250	46701	7126
00:05	MP80458-S1	3048	194120	47949	7787
00:11	MP80458-S2	3057	195220	48380	7856
00:17	JB70399-1	3045	193950	48150	7783

INTERNAL STANDARD SUMMARY

Login Number: JB70517

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

File ID: SA070314M2.ICP

Date Analyzed: 07/03/14

Methods: EPA 200.7, SW846 6010C

Analyst: ND

Run ID: MA34391

Parameters: Al,Ba,Be,Fe,Tl

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
00:23	MP80458-SD1	3131	201780	48512	8103
00:29	MA34391-CCV7	3063	197490	48094	7960
00:36	MA34391-CCB7	3172	205800	48289	8227
00:42	MA34391-CRI2	3154	203510	48426	8189
00:48	MA34391-CRID3	3167	204870	48457	8222
00:54	MA34391-CRIA2	3174	205930	48340	8233
01:00	MA34391-ICSA2	2843	181570	46772	7305
01:07	MA34391-ICSAB2	2835	181440	46519	7314
01:13	MA34391-CCV8	3055	196480	47792	7947
01:19	MA34391-CCB8	3177	205830	48315	8250
01:25	MP80459-MB1	No results reported for the elements associated with this internal standard.			
01:32	MP80459-B1	No results reported for the elements associated with this internal standard.			
01:38	MP80459-S1	No results reported for the elements associated with this internal standard.			
01:44	MP80459-S2	No results reported for the elements associated with this internal standard.			
01:50	JB70647-2AB	No results reported for the elements associated with this internal standard.			
01:57	MP80459-SD1	No results reported for the elements associated with this internal standard.			
02:03	MP80462-MB1	No results reported for the elements associated with this internal standard.			
02:09	MP80462-B1	No results reported for the elements associated with this internal standard.			
02:15	MP80462-S1	No results reported for the elements associated with this internal standard.			
02:22	MP80462-S2	No results reported for the elements associated with this internal standard.			
02:28	MA34391-CCV9	3059	195630	47748	7954
02:34	MA34391-CCB9	3166	204880	48247	8215
02:40	JB70647-1AB	No results reported for the elements associated with this internal standard.			
02:47	MP80462-SD1	No results reported for the elements associated with this internal standard.			
02:53	MP80460-MB1	3137	207270	49534	8170
02:59	MP80460-B1	3154	206090	49045	8206
03:05	MP80460-S1	2976	188230	46404	7706
03:11	MP80460-S2	2960	187960	46583	7700
03:17	JB70629-1	2976	189380	46671	7668
03:24	MP80460-SD1	3113	200470	47710	8053
03:30	MA34391-CCV10	3055	198840	49494	7989
03:36	MA34391-CCB10	3151	207010	49416	8216
03:42	MA34391-CRI3	3141	205630	49343	8191

INTERNAL STANDARD SUMMARY

Login Number: JB70517

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

File ID: SA070314M2.ICP

Date Analyzed: 07/03/14

Methods: EPA 200.7, SW846 6010C

Analyst: ND

Run ID: MA34391

Parameters: Al,Ba,Be,Fe,Tl

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
03:48	MA34391-CRID4	3169	206890	49275	8255
03:54	MA34391-CRIA3	3184	207200	48953	8269
04:01	MA34391-CCV11	3063	197220	48578	7976
04:07	MA34391-CCB11	3182	207770	48960	8273
04:13	ZZZZZZ	3217	197240	50909	7957
04:19	ZZZZZZ	3167	206410	49610	8235
04:26	ZZZZZZ	3172	206530	48953	8228
04:32	ZZZZZZ	3184	206790	48880	8268
04:38	ZZZZZZ	3180	206800	49121	8271
04:44	ZZZZZZ	3184	206230	49380	8295
04:50	ZZZZZZ	2964	191090	46804	7659
04:57	ZZZZZZ	3188	206850	49082	8302

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 %

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB70517
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA070314M2.ICP Date Analyzed: 07/03/14 Methods: EPA 200.7, SW846 6010C
QC Limits: result < RL Run ID: MA34391 Units: ug/l

Time: Sample ID:			18:05 ICB1		18:17 CCB1		19:20 CCB2		20:28 CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	9.9	7.7	<200	9.1	<200	7.8	<200	8.6	<200
Antimony	6.0	3	anr							
Arsenic	3.0	.82	anr							
Barium	200	.24	0.10							
Beryllium	1.0	.01	0.20							
Bismuth	20	1.4								
Boron	100	.09								
Cadmium	3.0	.2	anr							
Calcium	5000	41	anr							
Chromium	10	.3	anr							
Cobalt	50	.25	anr							
Copper	10	.37	anr							
Iron	100	2.1	3.7							
Lead	3.0	1.1	anr							
Lithium	20	1.9								
Magnesium	5000	11	anr							
Manganese	15	.05	anr							
Molybdenum	20	.47	anr							
Nickel	10	.3	anr							
Palladium	50	.7								
Potassium	10000	40	anr							
Selenium	10	1.4	anr							
Silicon	200	7.6								
Silver	10	.54	anr							
Sodium	10000	12	anr							
Sulfur	50	2.4								
Strontium	10	.15								
Thallium	2.0	1.3	0.30	<2.0	-0.10	<2.0	0.10	<2.0	-0.20	<2.0
Tin	10	.69								
Titanium	10	.68								
Tungsten	50	7.4								
Vanadium	50	.28	anr							
Zinc	20	.92	anr							

10.5.2
10

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB70517
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA070314M2.ICP Date Analyzed: 07/03/14 Methods: EPA 200.7, SW846 6010C
QC Limits: result < RL Run ID: MA34391 Units: ug/l

Time: Sample ID:			18:05 ICB1		18:17 CCB1		19:20 CCB2		20:28 CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final

Zirconium 10 .39

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB70517
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA070314M2.ICP
QC Limits: result < RL

Date Analyzed: 07/03/14
Run ID: MA34391

Methods: EPA 200.7, SW846 6010C
Units: ug/l

Time: Sample ID:			21:37 CCB4		22:45 CCB5		23:53 CCB6		00:36 CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	9.9	13.8	<200	8.1	<200	9.2	<200	8.5	<200
Antimony	6.0	3	anr							
Arsenic	3.0	.82	anr							
Barium	200	.24	0.40							
Beryllium	1.0	.01	0.30							
Bismuth	20	1.4								
Boron	100	.09								
Cadmium	3.0	.2	anr							
Calcium	5000	41	anr							
Chromium	10	.3	anr							
Cobalt	50	.25	anr							
Copper	10	.37	anr							
Iron	100	2.1	8.7							
Lead	3.0	1.1	anr							
Lithium	20	1.9								
Magnesium	5000	11	anr							
Manganese	15	.05	anr							
Molybdenum	20	.47	anr							
Nickel	10	.3	anr							
Palladium	50	.7								
Potassium	10000	40	anr							
Selenium	10	1.4	anr							
Silicon	200	7.6								
Silver	10	.54	anr							
Sodium	10000	12	anr							
Sulfur	50	2.4								
Strontium	10	.15								
Thallium	2.0	1.3	0.60	<2.0	0.50	<2.0	0.90	<2.0	0.90	<2.0
Tin	10	.69								
Titanium	10	.68								
Tungsten	50	7.4								
Vanadium	50	.28	anr							
Zinc	20	.92	anr							

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB70517
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA070314M2.ICP Date Analyzed: 07/03/14 Methods: EPA 200.7, SW846 6010C
QC Limits: result < RL Run ID: MA34391 Units: ug/l

Time: Sample ID:			21:37 CCB4		22:45 CCB5		23:53 CCB6		00:36 CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final

Zirconium 10 .39

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB70517
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA070314M2.ICP Date Analyzed: 07/03/14 Methods: EPA 200.7, SW846 6010C
QC Limits: result < RL Run ID: MA34391 Units: ug/l

Time: Sample ID:	RL	IDL	01:19 CCB8 raw	final
Metal				
Aluminum	200	9.9	26.9	<200
Antimony	6.0	3	anr	
Arsenic	3.0	.82	anr	
Barium	200	.24	0.40	<200
Beryllium	1.0	.01	0.30	<1.0
Bismuth	20	1.4		
Boron	100	.09		
Cadmium	3.0	.2	anr	
Calcium	5000	41	anr	
Chromium	10	.3	anr	
Cobalt	50	.25	anr	
Copper	10	.37	anr	
Iron	100	2.1	15.7	<100
Lead	3.0	1.1	anr	
Lithium	20	1.9		
Magnesium	5000	11	anr	
Manganese	15	.05	anr	
Molybdenum	20	.47	anr	
Nickel	10	.3	anr	
Palladium	50	.7		
Potassium	10000	40	anr	
Selenium	10	1.4	anr	
Silicon	200	7.6		
Silver	10	.54	anr	
Sodium	10000	12	anr	
Sulfur	50	2.4		
Strontium	10	.15		
Thallium	2.0	1.3	1.3	<2.0
Tin	10	.69		
Titanium	10	.68		
Tungsten	50	7.4		
Vanadium	50	.28	anr	
Zinc	20	.92	anr	

10.5.2
10

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB70517
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA070314M2.ICP Date Analyzed: 07/03/14 Methods: EPA 200.7, SW846 6010C
QC Limits: result < RL Run ID: MA34391 Units: ug/l

Time:		01:19	
Sample ID:		CCB8	
Metal	RL	IDL	raw final

Zirconium 10 .39

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB70517

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

File ID: SA070314M2.ICP
QC Limits: 95 to 105 % Recovery

Date Analyzed: 07/03/14
Run ID: MA34391

Methods: EPA 200.7, SW846 6010C
Units: ug/l

Time: Sample ID:	ICV	17:59 ICV1 Results	% Rec	CCV	18:11 CCV1 Results	% Rec	CCV	19:13 CCV2 Results	% Rec
Metal	True			True			True		
Aluminum	40000	39800	99.5	40000	39600	99.0	40000	39800	99.5
Antimony	anr								
Arsenic	anr								
Barium	2000	2010	100.5	2000	2010	100.5	2000	2000	100.0
Beryllium	2000	2070	103.5	2000	2060	103.0	2000	2040	102.0
Bismuth									
Boron									
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	40000	41000	102.5	40000	41200	103.0	40000	40800	102.0
Lead	anr								
Lithium									
Magnesium	anr								
Manganese	anr								
Molybdenum	anr								
Nickel	anr								
Palladium									
Potassium	anr								
Selenium	anr								
Silicon									
Silver	anr								
Sodium	anr								
Sulfur									
Strontium									
Thallium	2000	2050	102.5	2000	2040	102.0	2000	2050	102.5
Tin									
Titanium									
Tungsten									
Vanadium	anr								
Zinc	anr								

10.5.3
10

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB70517
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA070314M2.ICP Date Analyzed: 07/03/14 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA34391 Units: ug/l

Time:		17:59			18:11			19:13		
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: JB70517

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

File ID: SA070314M2.ICP
QC Limits: 95 to 105 % Recovery

Date Analyzed: 07/03/14
Run ID: MA34391

Methods: EPA 200.7, SW846 6010C
Units: ug/l

Time: Sample ID:	CCV	20:22 CCV3	% Rec	CCV	21:30 CCV4	% Rec	CCV	22:38 CCV5	% Rec
Metal	True	Results		True	Results		True	Results	
Aluminum	40000	39100	97.8	40000	39700	99.3	40000	39500	98.8
Antimony	anr								
Arsenic	anr								
Barium	2000	1960	98.0	2000	1960	98.0	2000	1960	98.0
Beryllium	2000	2010	100.5	2000	2020	101.0	2000	2010	100.5
Bismuth									
Boron									
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	40000	40500	101.3	40000	40800	102.0	40000	40700	101.8
Lead	anr								
Lithium									
Magnesium	anr								
Manganese	anr								
Molybdenum	anr								
Nickel	anr								
Palladium									
Potassium	anr								
Selenium	anr								
Silicon									
Silver	anr								
Sodium	anr								
Sulfur									
Strontium									
Thallium	2000	2030	101.5	2000	2040	102.0	2000	2030	101.5
Tin									
Titanium									
Tungsten									
Vanadium	anr								
Zinc	anr								

10.5.3
10

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB70517
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA070314M2.ICP Date Analyzed: 07/03/14 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA34391 Units: ug/l

Time:		20:22		21:30		22:38	
Sample ID:	CCV	CCV3	CCV	CCV4	CCV	CCV5	
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: JB70517
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA070314M2.ICP Date Analyzed: 07/03/14 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA34391 Units: ug/l

Time: Sample ID:	CCV	23:46 CCV6 Results	% Rec	CCV	00:29 CCV7 Results	% Rec	CCV	01:13 CCV8 Results	% Rec
Metal	True			True			True		
Aluminum	40000	40600	101.5	40000	39400	98.5	40000	39300	98.3
Antimony	anr								
Arsenic	anr								
Barium	2000	2000	100.0	2000	1950	97.5	2000	1950	97.5
Beryllium	2000	2040	102.0	2000	2020	101.0	2000	2020	101.0
Bismuth									
Boron									
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	40000	41600	104.0	40000	40500	101.3	40000	40500	101.3
Lead	anr								
Lithium									
Magnesium	anr								
Manganese	anr								
Molybdenum	anr								
Nickel	anr								
Palladium									
Potassium	anr								
Selenium	anr								
Silicon									
Silver	anr								
Sodium	anr								
Sulfur									
Strontium									
Thallium	2000	2040	102.0	2000	2020	101.0	2000	2020	101.0
Tin									
Titanium									
Tungsten									
Vanadium	anr								
Zinc	anr								

10.5.3
10

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB70517
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA070314M2.ICP Date Analyzed: 07/03/14 Methods: EPA 200.7, SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA34391 Units: ug/l

Time:	23:46	00:29	01:13
Sample ID:	CCV	CCV	CCV
	CCV6	CCV7	CCV8
Metal	True	True	True
	Results	Results	Results
	% Rec	% Rec	% Rec

Zirconium

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JB70517

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

File ID: SA070314M2.ICP
QC Limits: 70 to 130 % Recovery

Date Analyzed: 07/03/14
Run ID: MA34391

Methods: EPA 200.7, SW846 6010C
Units: ug/l

Time: Sample ID:	CRI	CRIA	CRID	18:24 CRI1	% Rec	18:36 CRIA1	% Rec	18:42 CRID2	% Rec
Metal	True	True	True	Results		Results		Results	
Aluminum	200	500	100	204	102.0	497	99.4	109	109.0
Antimony	6.0	20	3.0	anr					
Arsenic	8.0	20	3.0	anr					
Barium	200		4.0	204	102.0			4.1	102.5
Beryllium	2.0		1.0	2.2	110.0			1.0	100.0
Bismuth	20								
Boron	100		10						
Cadmium	3.0		1.0	anr					
Calcium	5000		1000	anr					
Chromium	10		2.0	anr					
Cobalt	50		3.0	anr					
Copper	10		2.0	anr					
Iron	100	500		110	110.0	534	106.8		
Lead	3.0	20	2.5	anr					
Lithium	20								
Magnesium	5000		100	anr					
Manganese	15		3.0	anr					
Molybdenum	20			anr					
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	9.8	98.0			2.1	105.0
Tin	10								
Titanium	10								
Tungsten	50								
Vanadium	50		2.0	anr					
Zinc	20		10	anr					

10.5.4
10

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JB70517
 Account: LANGAN - Langan Engineering & Environmental
 Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA070314M2.ICP Date Analyzed: 07/03/14 Methods: EPA 200.7, SW846 6010C
 QC Limits: 70 to 130 % Recovery Run ID: MA34391 Units: ug/l

Time:				18:24		18:36		18:42	
Sample ID:	CRI	CRIA	CRID	CRI1		CRIA1		CRID2	
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: JB70517

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

File ID: SA070314M2.ICP
QC Limits: 70 to 130 % Recovery

Date Analyzed: 07/03/14
Run ID: MA34391

Methods: EPA 200.7, SW846 6010C
Units: ug/l

Time: Sample ID:	CRI	CRIA	CRID	00:42 CRI2	% Rec	00:48 CRID3	% Rec	00:54 CRIA2	% Rec
Metal	True	True	True	Results		Results		Results	
Aluminum	200	500	100	206	103.0	108	108.0	485	97.0
Antimony	6.0	20	3.0	anr					
Arsenic	8.0	20	3.0	anr					
Barium	200		4.0	200	100.0	4.0	100.0		
Beryllium	2.0		1.0	2.1	105.0	1.0	100.0		
Bismuth	20								
Boron	100		10						
Cadmium	3.0		1.0	anr					
Calcium	5000		1000	anr					
Chromium	10		2.0	anr					
Cobalt	50		3.0	anr					
Copper	10		2.0	anr					
Iron	100	500		108	108.0			533	106.6
Lead	3.0	20	2.5	anr					
Lithium	20								
Magnesium	5000		100	anr					
Manganese	15		3.0	anr					
Molybdenum	20			anr					
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	10.0	100.0	2.4	120.0		
Tin	10								
Titanium	10								
Tungsten	50								
Vanadium	50		2.0	anr					
Zinc	20		10	anr					

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JB70517
 Account: LANGAN - Langan Engineering & Environmental
 Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA070314M2.ICP Date Analyzed: 07/03/14 Methods: EPA 200.7, SW846 6010C
 QC Limits: 70 to 130 % Recovery Run ID: MA34391 Units: ug/l

Time:				00:42		00:48		00:54	
Sample ID:	CRI	CRIA	CRID	CRI2	% Rec	CRID3	% 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: JB70517

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

File ID: SA070314M2.ICP Date Analyzed: 07/03/14 Methods: EPA 200.7, SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA34391 Units: ug/l

Time: Sample ID:	ICSA True	ICSAB True	18:48 ICSA1 Results	% Rec	18:55 ICSAB1 Results	% Rec	01:00 ICSA2 Results	% Rec	01:07 ICSAB2 Results	% Rec
Metal										
Aluminum	500000	500000	503000	100.6	493000	98.6	491000	98.2	492000	98.4
Antimony		1000	0.50		1020	102.0	0.90		997	99.7
Arsenic		1000	-2.8		1010	101.0	-2.9		978	97.8
Barium		500	-0.40		479	95.8	-0.40		468	93.6
Beryllium		500	0.0		488	97.6	0.0		483	96.6
Bismuth		500	1.9		488	97.6	1.4		474	94.8
Boron			-0.40		-1.6		0.50		-1.2	
Cadmium		1000	3.2		1010	101.0	3.1		999	99.9
Calcium	400000	400000	380000	95.0	374000	93.5	379000	94.8	374000	93.5
Chromium		500	-0.40		474	94.8	-0.30		478	95.6
Cobalt		500	-1.3		478	95.6	-1.3		476	95.2
Copper		500	1.7		497	99.4	1.0		491	98.2
Iron	200000	200000	187000	93.5	186000	93.0	185000	92.5	185000	92.5
Lead		1000	1.6		942	94.2	-0.80		940	94.0
Lithium		500	8.0		495	99.0	7.8		493	98.6
Magnesium	500000	500000	512000	102.4	511000	102.2	511000	102.2	516000	103.2
Manganese		500	3.4		491	98.2	3.0		485	97.0
Molybdenum		500	-2.5		489	97.8	-2.5		480	96.0
Nickel		1000	-1.8		952	95.2	-1.9		948	94.8
Palladium		500	-3.2		516	103.2	-1.9		510	102.0
Potassium			30.2		23.2		-23		-28	
Selenium		1000	4.3		1010	101.0	5.0		988	98.8
Silicon			15.9		16.2		15.2		16.7	
Silver		1000	3.0		1000	100.0	1.3		989	98.9
Sodium			11.5		14.7		14.5		17.4	
Sulfur		500	43.4		534	106.8	45.0		521	104.2
Strontium			-6.1		-6.0		-6.2		-6.1	
Thallium		1000	1.9		967	96.7	3.9		958	95.8
Tin			-1.0		-1.4		-1.0		-1.7	
Titanium			0.90		1.0		1.1		1.0	
Tungsten		500	6.8		507	101.4	8.4		497	99.4
Vanadium		500	0.20		468	93.6	0.10		467	93.4
Zinc		1000	0.0		970	97.0	-0.50		965	96.5

10.5.5
10

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: JB70517
 Account: LANGAN - Langan Engineering & Environmental
 Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: SA070314M2.ICP Date Analyzed: 07/03/14 Methods: EPA 200.7, SW846 6010C
 QC Limits: 80 to 120 % Recovery Run ID: MA34391 Units: ug/l

Time:				18:48			18:55			01:00			01:07
Sample ID:	ICSAB	ICSAB	ICSAB	ICSAB1	% Rec	Results	% Rec	Results	% Rec	ICSAB2	% Rec	Results	ICSAB2
Metal	True	True	True	Results	% Rec	Results	% Rec	Results	% Rec	Results	% Rec	Results	% Rec

Zirconium	500	7.9		504	100.8	7.4		499	99.8
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(*) Outside of QC limits
 (anr) Analyte not requested

10.5.5
 10

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB70517
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: H8070714W1.CSV Date Analyzed: 07/07/14 Methods: EPA 245.1, SW846 7470A
Analyst: DP Run ID: MA34395
Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
12:29	MA34395-STD1	1		B=3.1761e-004,C=3.2233e-002,R=0.9998640
12:30	MA34395-STD2	1		STDB
12:32	MA34395-STD3	1		STDC
12:33	MA34395-STD4	1		STDD
12:34	MA34395-STD5	1		STDE
12:36	MA34395-STD6	1		STDF
12:42	MA34395-ICV1	1		
12:44	MA34395-ICB1	1		
12:45	MA34395-ICCV1	1		
12:46	MA34395-CCB1	1		
12:48	MA34395-CRI1	1		
13:07	ZZZZZZ	1		
13:08	ZZZZZZ	1		
13:10	MP80490-MB1	1		
13:11	MP80490-B1	1		
13:12	MP80490-S1	1		
13:14	MP80490-S2	1		
13:15	JB69993-1A	1		(sample used for QC only; not part of login JB70517)
13:17	ZZZZZZ	1		
13:18	MA34395-CCV1	1		
13:20	MA34395-CCB2	1		
13:21	ZZZZZZ	1		
13:22	ZZZZZZ	1		
13:24	ZZZZZZ	1		
13:25	ZZZZZZ	1		
13:27	ZZZZZZ	1		
13:28	ZZZZZZ	1		
13:29	MP80491-MB1	1		
13:30	MP80491-B1	1		
13:32	MA34395-CCV2	1		
13:33	MA34395-CCB3	1		
13:35	MP80491-S1	1		Strong odor and cloudy
13:36	MP80491-S2	1		Strong odor and cloudy

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB70517

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

File ID: H8070714W1.CSV
Analyst: DP
Parameters: Hg

Date Analyzed: 07/07/14
Run ID: MA34395

Methods: EPA 245.1, SW846 7470A

Time	Sample Description	Dilution Factor	PS Recov	Comments
13:38	JB70629-1	1		(sample used for QC only; not part of login JB70517)
13:39	MP80492-MB1	1		
13:41	MP80492-B1	1		
13:42	MP80492-S1	1		
13:44	MP80492-S2	1		
13:45	JB70796-1A	1		(sample used for QC only; not part of login JB70517)
13:47	ZZZZZZ	1		
13:48	ZZZZZZ	1		
13:50	MA34395-CCV3	1		
13:51	MA34395-CCB4	1		
13:52	ZZZZZZ	1		
13:54	MP80493-MB1	1		
13:55	MP80493-B1	1		
13:56	MP80493-S1	1		
13:58	MP80493-S2	1		
13:59	JB70799-1	1		(sample used for QC only; not part of login JB70517)
14:01	ZZZZZZ	1		
14:02	ZZZZZZ	1		
14:03	ZZZZZZ	1		
14:05	MA34395-CCV4	1		
14:07	MA34395-CCB5	1		
14:09	ZZZZZZ	1		
14:10	ZZZZZZ	1		
14:11	ZZZZZZ	1		
14:13	ZZZZZZ	1		
14:15	ZZZZZZ	1		
14:18	ZZZZZZ	1		
14:19	ZZZZZZ	1		
14:21	ZZZZZZ	1		
14:36	MA34395-CRI2	1		
14:39	MA34395-CCV5	1		
14:40	MA34395-CCB6	1		
14:41	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB70517

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

File ID: H8070714W1.CSV
Analyst: DP
Parameters: Hg

Date Analyzed: 07/07/14
Run ID: MA34395

Methods: EPA 245.1, SW846 7470A

Time	Sample Description	Dilution Factor	PS Recov	Comments
14:43	ZZZZZZ	1		
14:45	ZZZZZZ	1		
14:56	MP80506-MB1	1		
14:57	MP80506-B1	1		
14:58	ZZZZZZ	1		
15:00	MP80496-MB1	1		
15:01	MP80496-B1	1		
15:02	MA34395-CCV6	1		
15:04	MA34395-CCB7	1		
15:05	MP80496-S1	1		
15:07	MP80496-S2	1		
15:08	JB70706-1A	1		(sample used for QC only; not part of login JB70517)
15:10	ZZZZZZ	1		
15:11	ZZZZZZ	1		
15:12	ZZZZZZ	1		
15:14	ZZZZZZ	1		
15:15	ZZZZZZ	1		
15:16	MP80500-MB1	1		
15:18	MA34395-CCV7	1		
15:19	MA34395-CCB8	1		
15:20	MP80500-B1	1		
15:22	MP80500-S1	1		
15:23	MP80500-S2	1		
15:25	JB70647-2AB	1		(sample used for QC only; not part of login JB70517)
15:30	MP80495-MB1	1		
15:31	MP80495-LC1	1		
15:32	MP80495-S1	1		
15:35	MP80495-S2	1		
15:36	JB70198-2	1		(sample used for QC only; not part of login JB70517)
15:37	ZZZZZZ	1		
15:39	MA34395-CCV8	1		
15:40	MA34395-CCB9	1		
15:42	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB70517

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

File ID: H8070714W1.CSV
Analyst: DP
Parameters: Hg

Date Analyzed: 07/07/14
Run ID: MA34395

Methods: EPA 245.1, SW846 7470A

Time	Sample Description	Dilution Factor	PS Recov	Comments
15:43	ZZZZZZ	1		
15:44	ZZZZZZ	1		
15:46	ZZZZZZ	1		
15:47	ZZZZZZ	1		
15:48	ZZZZZZ	1		
15:49	ZZZZZZ	1		
15:51	ZZZZZZ	1		
15:52	JB70517-3	1		
15:53	JB70517-4	1		
15:55	MA34395-CCV9	1		
15:56	MA34395-CCB10	1		
15:57	ZZZZZZ	1		
15:59	ZZZZZZ	1		
16:00	MP80495-S3	1		
16:01	MP80495-S4	1		
16:03	JB70508-2F	1		(sample used for QC only; not part of login JB70517)
16:04	ZZZZZZ	1		
16:06	ZZZZZZ	1		
16:07	ZZZZZZ	1		
16:08	ZZZZZZ	1		
16:10	ZZZZZZ	1		
16:11	MA34395-CCV10	1		
16:12	MA34395-CCB11	1		
16:14	MP80494-MB1	1		
16:15	MP80494-LC1	1		
16:16	MP80494-S1	1		
16:18	MP80494-S2	1		
16:19	JB70422-1	1		(sample used for QC only; not part of login JB70517)
16:21	ZZZZZZ	1		
16:22	ZZZZZZ	1		
16:24	MP80495-PS1	1		
----->	Last reportable sample/prep for job JB70517			
16:25	ZZZZZZ	1		
16:27	MA34395-CCV11	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: JB70517

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

File ID: H8070714W1.CSV

Date Analyzed: 07/07/14

Methods: EPA 245.1, SW846 7470A

Analyst: DP

Run ID: MA34395

Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
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16:28 MA34395-CCB12 1

16:35 MA34395-CRI3 1

16:37 ZZZZZZ 1

16:38 ZZZZZZ 1

16:48 MA34395-CCV12 1

16:49 MA34395-CCB13 1

-----> Last reportable CCB for job JB70517

Refer to raw data for calibration curve and standards.

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB70517
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: H8070714W1.CSV Date Analyzed: 07/07/14 Methods: EPA 245.1, SW846 7470A
QC Limits: result < RL Run ID: MA34395 Units: ug/l

Time: Sample ID:			12:44 ICB1		12:46 CCB1		13:20 CCB2		13:33 CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Mercury	0.20	.031	-0.040	<0.20	-0.045	<0.20	-0.039	<0.20	-0.044	<0.20

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB70517
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: H8070714W1.CSV Date Analyzed: 07/07/14 Methods: EPA 245.1, SW846 7470A
QC Limits: result < RL Run ID: MA34395 Units: ug/l

Time: Sample ID:			13:51 CCB4		14:07 CCB5		14:40 CCB6		15:04 CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Mercury	0.20	.031	-0.028	<0.20	-0.043	<0.20	-0.014	<0.20	-0.021	<0.20

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB70517
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: H8070714W1.CSV Date Analyzed: 07/07/14 Methods: EPA 245.1, SW846 7470A
QC Limits: result < RL Run ID: MA34395 Units: ug/l

Time: Sample ID:			15:19 CCB8		15:40 CCB9		15:56 CCB10		16:12 CCB11	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Mercury	0.20	.031	-0.0037	<0.20	-0.021	<0.20	-0.020	<0.20	-0.011	<0.20

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JB70517
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

File ID: H8070714W1.CSV Date Analyzed: 07/07/14 Methods: EPA 245.1, SW846 7470A
QC Limits: result < RL Run ID: MA34395 Units: ug/l

Time:		16:28		16:49		
Sample ID:		CCB12		CCB13		
Metal	RL	IDL	raw	final	raw	final
Mercury	0.20	.031	-0.026	<0.20	-0.022	<0.20

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial Continuing Calibration Check

Login Number: JB70517

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

File ID: H8070714W1.CSV Date Analyzed: 07/07/14 Methods: EPA 245.1, SW846 7470A
QC Limits: 95 to 105 % Recovery Run ID: MA34395 Units: ug/l

Time:		12:45	
Sample ID:		ICCV1	
Metal	True	Results	% Rec
Mercury	2.5	2.6	104.0

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JB70517

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

File ID: H8070714W1.CSV Date Analyzed: 07/07/14 Methods: EPA 245.1, SW846 7470A
QC Limits: 90 to 110 % Recovery Run ID: MA34395 Units: ug/l

Time:		12:42			13:18			13:32		
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2		
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec	
Mercury	3	2.8	93.3	2.5	2.4	96.0	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: JB70517

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

File ID: H8070714W1.CSV Date Analyzed: 07/07/14 Methods: EPA 245.1, SW846 7470A
QC Limits: 90 to 110 % Recovery Run ID: MA34395 Units: ug/l

Time:		13:50		14:05		14:39			
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Mercury	2.5	2.4	96.0	2.5	2.3	92.0	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: JB70517

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

File ID: H8070714W1.CSV Date Analyzed: 07/07/14 Methods: EPA 245.1, SW846 7470A
QC Limits: 90 to 110 % Recovery Run ID: MA34395 Units: ug/l

Time:		15:02		15:18		15:39			
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Mercury	2.5	2.3	92.0	2.5	2.4	96.0	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: JB70517

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

File ID: H8070714W1.CSV Date Analyzed: 07/07/14 Methods: EPA 245.1, SW846 7470A
QC Limits: 90 to 110 % Recovery Run ID: MA34395 Units: ug/l

Time:		15:55		16:11		16:27	
Sample ID:		CCV		CCV		CCV	
Metal		True		True		True	
		Results	% Rec	Results	% Rec	Results	% Rec
Mercury		2.5	2.4	96.0	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: JB70517

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

File ID: H8070714W1.CSV Date Analyzed: 07/07/14 Methods: EPA 245.1, SW846 7470A
QC Limits: 90 to 110 % Recovery Run ID: MA34395 Units: ug/l

Time:	16:48		
Sample ID:	CCV	CCV12	
Metal	True	Results	% Rec
Mercury	2.5	2.4	96.0

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JB70517

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

File ID: H8070714W1.CSV Date Analyzed: 07/07/14 Methods: EPA 245.1, SW846 7470A
QC Limits: 70 to 130 % Recovery Run ID: MA34395 Units: ug/l

Time:				12:48		14:36		16:35	
Sample ID:	CRI	CRIA	CRI1		CRI2		CRI3		
Metal	True	True	Results	% Rec	Results	% Rec	Results	% Rec	
Mercury	0.20		0.23	115.0	0.25	125.0	0.23	115.0	

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JB70517

Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NYQC Batch ID: MP80388
Matrix Type: AQUEOUSMethods: SW846 6010C
Units: ug/l

Prep Date: 06/30/14

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	9.9	11	3.7	<200
Antimony	6.0	3	2.6	0.80	<6.0
Arsenic	3.0	.82	2.6	-0.70	<3.0
Barium	200	.24	1	0.10	<200
Beryllium	1.0	.01	.4	0.0	<1.0
Bismuth	20	1.4	2.4		
Boron	100	.09	4.9		
Cadmium	3.0	.2	.7	0.20	<3.0
Calcium	5000	41	19	25.3	<5000
Chromium	10	.3	.89	-0.30	<10
Cobalt	50	.25	.83	0.50	<50
Copper	10	.37	1.2	0.80	<10
Iron	100	2.1	12	-0.70	<100
Lead	3.0	1.1	1.3	-0.30	<3.0
Lithium	20	1.9	2.8		
Magnesium	5000	11	41	4.0	<5000
Manganese	15	.05	.48	4.4	<15
Molybdenum	20	.47	1.1		
Nickel	10	.3	.75	0.10	<10
Palladium	50	.7	3.2		
Potassium	10000	40	50	21.4	<10000
Selenium	10	1.4	3.6	-1.0	<10
Silicon	200	7.6	24		
Silver	10	.54	1.2	0.20	<10
Sodium	10000	12	19	-0.40	<10000
Sulfur	50	2.4	10		
Strontium	10	.15	.76		
Thallium	2.0	1.3	1.8	-0.90	<2.0
Tin	10	.69	3.6		
Titanium	10	.68	.93		
Tungsten	50	7.4	14		
Vanadium	50	.28	.87	0.40	<50
Zinc	20	.92	7.6	2.8	<20

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JB70517
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

QC Batch ID: MP80388
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 06/30/14

Metal	RL	IDL	MDL	MB raw	final
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Zirconium 10 .39 1.9

Associated samples MP80388: JB70517-3, JB70517-4

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: JB70517

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

QC Batch ID: MP80388
 Matrix Type: AQUEOUS

Methods: SW846 6010C
 Units: ug/l

Prep Date: 06/30/14

Metal	LCS Result	Spike lot MPLCW3	% Rec	QC Limits
Aluminum	4860	5000	97.2	80-120
Antimony	486	500	97.2	80-120
Arsenic	493	500	98.6	80-120
Barium	507	500	101.4	80-120
Beryllium	513	500	102.6	80-120
Bismuth				
Boron				
Cadmium	490	500	98.0	80-120
Calcium	5720	5500	104.0	80-120
Chromium	510	500	102.0	80-120
Cobalt	497	500	99.4	80-120
Copper	472	500	94.4	80-120
Iron	5730	5500	104.2	80-120
Lead	510	500	102.0	80-120
Lithium				
Magnesium	5440	5500	98.9	80-120
Manganese	518	500	103.6	80-120
Molybdenum				
Nickel	517	500	103.4	80-120
Palladium				
Potassium	9890	10000	98.9	80-120
Selenium	490	500	98.0	80-120
Silicon				
Silver	192	200	96.0	80-120
Sodium	10100	10000	101.0	80-120
Sulfur				
Strontium				
Thallium	525	500	105.0	80-120
Tin				
Titanium				
Tungsten				
Vanadium	496	500	99.2	80-120
Zinc	549	500	109.8	80-120

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JB70517
 Account: LANGAN - Langan Engineering & Environmental
 Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

QC Batch ID: MP80388
 Matrix Type: AQUEOUS

Methods: SW846 6010C
 Units: ug/l

Prep Date: 06/30/14

Metal	LCS Result	Spike lot MPLCW3	% Rec	QC Limits
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Zirconium

Associated samples MP80388: JB70517-3, JB70517-4

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: JB70517
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

QC Batch ID: MP80392
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 06/30/14

Metal	RL	IDL	MDL	MB raw	final
Aluminum	83	2	2.2	0.25	<83
Antimony	3.3	.21	.45	0.27	<3.3
Arsenic	3.3	.22	.48	0.050	<3.3
Barium	33	.062	.13	0.17	<33
Beryllium	0.33	.017	.033	0.017	<0.33
Bismuth	3.3	.33	.38		
Boron	17	.13	.3		
Cadmium	0.83	.038	.083	0.017	<0.83
Calcium	830	5.3	5.1	8.1	<830
Chromium	1.7	.083	.12	0.20	<1.7
Cobalt	8.3	.047	.1	0.033	<8.3
Copper	4.2	.11	.25	0.067	<4.2
Iron	83	1.6	1.6	5.4	<83
Lead	3.3	.17	.35	0.050	<3.3
Lithium	3.3	.21	.33		
Magnesium	830	6.3	5.6	-1.9	<830
Manganese	2.5	.017	.1	0.067	<2.5
Molybdenum	3.3	.065	.12		
Nickel	6.7	.053	.17	0.10	<6.7
Palladium	8.3	.26	.43		
Potassium	1700	3.8	6.7	8.2	<1700
Selenium	3.3	.37	.55	0.067	<3.3
Silicon	33	1.2	6.6		
Silver	0.83	.13	.23	0.017	<0.83
Sodium	1700	1.1	3.1	1.7	<1700
Strontium	1.7	.022	.05		
Sulfur	8.3	.49	1.7		
Thallium	1.7	.18	.68	0.17	<1.7
Tin	8.3	.14	2.1		
Titanium	1.7	.065	.17		
Tungsten	8.3	1.4	7.4		
Vanadium	8.3	.068	.15	-0.050	<8.3
Zinc	3.3	.82	.63	0.50	<3.3

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JB70517
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

QC Batch ID: MP80392
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 06/30/14

Metal	RL	IDL	MDL	MB raw	final
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Zirconium 3.3 .088 .43

Associated samples MP80392: JB70517-1, JB70517-2

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: JB70517
 Account: LANGAN - Langan Engineering & Environmental
 Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

QC Batch ID: MP80392
 Matrix Type: SOLID

Methods: SW846 6010C
 Units: mg/kg

Prep Date: 06/30/14

Metal	JB70517-1 Original MS		Spike lot MPIRS1	% Rec	QC Limits
Aluminum	28100	39600	16200	70.9N(a)	75-125
Antimony	0.0	128	300	42.6N(a)	75-125
Arsenic	27.1	1100	1200	89.3	75-125
Barium	76.1	1120	1200	86.9	75-125
Beryllium	1.8	28.5	30	88.9	75-125
Bismuth					
Boron					
Cadmium	0.45	28.4	30	93.0	75-125
Calcium	5500	7110	3760	42.9N(a)	75-125
Chromium	54.9	158	120	85.8	75-125
Cobalt	22.5	286	300	87.7	75-125
Copper	35.5	159	150	82.2	75-125
Iron	59100	57600	15600	-9.6N(a)	75-125
Lead	73.6	362	300	96.0	75-125
Lithium					
Magnesium	12900	13400	3760	13.3N(a)	75-125
Manganese	620	749	300	42.9N(a)	75-125
Molybdenum					
Nickel	64.4	322	300	85.7	75-125
Palladium					
Potassium	5510	8650	3760	83.6	75-125
Selenium	1.3	1120	1200	93.1	75-125
Silicon					
Silver	0.0	26.7	30	88.9	75-125
Sodium	1780	5130	3760	89.2	75-125
Strontium					
Sulfur					
Thallium	0.0	1180	1200	98.2	75-125
Tin					
Titanium					
Tungsten					
Vanadium	60.6	317	300	85.3	75-125
Zinc	137	379	300	80.5	75-125

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JB70517
 Account: LANGAN - Langan Engineering & Environmental
 Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

QC Batch ID: MP80392
 Matrix Type: SOLID

Methods: SW846 6010C
 Units: mg/kg

Prep Date: 06/30/14

Metal	JB70517-1 Original MS	Spike lot MPIRS1	% Rec	QC Limits
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Zirconium

Associated samples MP80392: JB70517-1, JB70517-2

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.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JB70517
 Account: LANGAN - Langan Engineering & Environmental
 Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

QC Batch ID: MP80392
 Matrix Type: SOLID

Methods: SW846 6010C
 Units: mg/kg

Prep Date: 06/30/14

Metal	JB70517-1 Original MSD		Spike lot MPIRS1	% Rec	MSD RPD	QC Limit
Aluminum	28100	45000	16500	102.2	12.8	20
Antimony	0.0	124	306	40.5N(a)	3.2	20
Arsenic	27.1	1130	1220	90.0	2.7	20
Barium	76.1	1150	1220	87.7	2.6	20
Beryllium	1.8	29.0	30.6	88.8	1.7	20
Bismuth						
Boron						
Cadmium	0.45	29.2	30.6	93.9	2.8	20
Calcium	5500	7880	3830	62.2N(a)	10.3	20
Chromium	54.9	168	122	92.3	6.1	20
Cobalt	22.5	294	306	88.7	2.8	20
Copper	35.5	172	153	89.2	7.9	20
Iron	59100	71100	15900	75.4	21.0 (b)	20
Lead	73.6	377	306	99.1	4.1	20
Lithium						
Magnesium	12900	15500	3830	67.9N(a)	14.5	20
Manganese	620	838	306	71.2N(a)	11.2	20
Molybdenum						
Nickel	64.4	339	306	89.7	5.1	20
Palladium						
Potassium	5510	9320	3830	99.5	7.5	20
Selenium	1.3	1140	1220	93.0	1.8	20
Silicon						
Silver	0.0	26.6	30.6	86.9	0.4	20
Sodium	1780	5410	3830	94.8	5.3	20
Strontium						
Sulfur						
Thallium	0.0	1180	1220	96.3	0.0	20
Tin						
Titanium						
Tungsten						
Vanadium	60.6	331	306	88.3	4.3	20
Zinc	137	416	306	91.1	9.3	20

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JB70517
 Account: LANGAN - Langan Engineering & Environmental
 Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

QC Batch ID: MP80392
 Matrix Type: SOLID

Methods: SW846 6010C
 Units: mg/kg

Prep Date: 06/30/14

Metal	JB70517-1 Original MSD	Spike lot MPIRS1	% Rec	MSD RPD	QC Limit
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Zirconium

Associated samples MP80392: JB70517-1, JB70517-2

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.

(b) High rpd due to possible sample nonhomogeneity.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JB70517
 Account: LANGAN - Langan Engineering & Environmental
 Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

QC Batch ID: MP80392
 Matrix Type: SOLID

Methods: SW846 6010C
 Units: mg/kg

Prep Date: 06/30/14

Metal	BSP Result	Spike lot MPIRS1	% Rec	QC Limits
Aluminum	9840	9820	100.2	80-120
Antimony	179	182	98.4	80-120
Arsenic	725	727	99.7	80-120
Barium	724	727	99.6	80-120
Beryllium	19.1	18.2	105.1	80-120
Bismuth				
Boron				
Cadmium	18.5	18.2	101.8	80-120
Calcium	2410	2270	106.0	80-120
Chromium	74.3	72.7	102.2	80-120
Cobalt	181	182	99.5	80-120
Copper	86.0	90.9	94.6	80-120
Iron	9940	9450	105.1	80-120
Lead	191	182	105.1	80-120
Lithium				
Magnesium	2410	2270	106.0	80-120
Manganese	184	182	101.2	80-120
Molybdenum				
Nickel	183	182	100.7	80-120
Palladium				
Potassium	2430	2270	106.9	80-120
Selenium	741	727	101.9	80-120
Silicon				
Silver	17.7	18.2	97.3	80-120
Sodium	2450	2270	107.8	80-120
Strontium				
Sulfur				
Thallium	794	727	109.2	80-120
Tin				
Titanium				
Tungsten				
Vanadium	178	182	97.9	80-120
Zinc	182	182	100.1	80-120

10.8.3
10

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JB70517
 Account: LANGAN - Langan Engineering & Environmental
 Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

QC Batch ID: MP80392
 Matrix Type: SOLID

Methods: SW846 6010C
 Units: mg/kg

Prep Date: 06/30/14

Metal	BSP Result	Spike lot MPIRS1	% Rec	QC Limits
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Zirconium

Associated samples MP80392: JB70517-1, JB70517-2

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: JB70517
 Account: LANGAN - Langan Engineering & Environmental
 Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

QC Batch ID: MP80392
 Matrix Type: SOLID

Methods: SW846 6010C
 Units: ug/l

Prep Date: 06/30/14

Metal	JB70517-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum	88300	89100	0.9	0-10
Antimony	0.00	0.00	NC	0-10
Arsenic	85.2	84.5	0.8	0-10
Barium	239	246	2.9	0-10
Beryllium	5.80	5.90	1.7	0-10
Bismuth				
Boron				
Cadmium	1.40	0.00	100.0(a)	0-10
Calcium	17300	18100	4.7	0-10
Chromium	172	182	5.4	0-10
Cobalt	70.8	72.6	2.5	0-10
Copper	112	109	2.7	0-10
Iron	186000	198000	6.8	0-10
Lead	231	241	4.2	0-10
Lithium				
Magnesium	40500	41300	2.0	0-10
Manganese	1950	2060	5.8	0-10
Molybdenum				
Nickel	202	208	2.9	0-10
Palladium				
Potassium	17300	17500	1.1	0-10
Selenium	4.00	0.00	100.0(a)	0-10
Silicon				
Silver	0.00	0.00	NC	0-10
Sodium	5600	5620	0.5	0-10
Strontium				
Sulfur				
Thallium	0.00	0.00	NC	0-10
Tin				
Titanium				
Tungsten				
Vanadium	190	196	2.9	0-10
Zinc	429	461	7.5	0-10

10.8.4
10

SERIAL DILUTION RESULTS SUMMARY

Login Number: JB70517
 Account: LANGAN - Langan Engineering & Environmental
 Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

QC Batch ID: MP80392
 Matrix Type: SOLID

Methods: SW846 6010C
 Units: ug/l

Prep Date: 06/30/14

Metal	JB70517-1	QC	
	Original SDL 1:5	%DIF	Limits

Zirconium

Associated samples MP80392: JB70517-1, JB70517-2

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).

10.8.4
10

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JB70517
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

QC Batch ID: MP80436
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 07/02/14

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.033	.0052	.0075	0.0046	<0.033

Associated samples MP80436: JB70517-1, JB70517-2

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: JB70517
 Account: LANGAN - Langan Engineering & Environmental
 Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

QC Batch ID: MP80436
 Matrix Type: SOLID

Methods: SW846 7471B
 Units: mg/kg

Prep Date: 07/02/14

Metal	JB70517-1		Spike lot		QC
	Original	MS	HGPWS1	% Rec	Limits
Mercury	0.055	0.52	0.494	94.2	75-125

Associated samples MP80436: JB70517-1, JB70517-2

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: JB70517
 Account: LANGAN - Langan Engineering & Environmental
 Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

QC Batch ID: MP80436
 Matrix Type: SOLID

Methods: SW846 7471B
 Units: mg/kg

Prep Date: 07/02/14

Metal	JB70517-1 Original MSD		Spike lot HGPWS1	% Rec	MSD RPD	QC Limit
Mercury	0.055	0.54	0.51	95.0	3.8	20

Associated samples MP80436: JB70517-1, JB70517-2

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: JB70517
 Account: LANGAN - Langan Engineering & Environmental
 Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

QC Batch ID: MP80436
 Matrix Type: SOLID

Methods: SW846 7471B
 Units: mg/kg

Prep Date: 07/02/14

Metal	LCS Result	Spike lot HGLCS54082% Rec	QC Limits
Mercury	5.2	5.76	90.3 71-129

Associated samples MP80436: JB70517-1, JB70517-2

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: JB70517
Account: LANGAN - Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

QC Batch ID: MP80495
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 07/07/14

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.20	.031	.064	0.051	<0.20

Associated samples MP80495: JB70517-3, JB70517-4

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: JB70517
 Account: LANGAN - Langan Engineering & Environmental
 Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

QC Batch ID: MP80495
 Matrix Type: AQUEOUS

Methods: SW846 7470A
 Units: ug/l

Prep Date: 07/07/14

Metal	JB70198-2 Original MS	SpikeLot HGPW3	% Rec	QC Limits
Mercury	0.85	10.9 (a) 12	83.8	75-125

Associated samples MP80495: JB70517-3, JB70517-4

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) Elevated sample detection limit due to difficult sample matrix.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JB70517
 Account: LANGAN - Langan Engineering & Environmental
 Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

QC Batch ID: MP80495
 Matrix Type: AQUEOUS

Methods: SW846 7470A
 Units: ug/l

Prep Date: 07/07/14

Metal	JB70198-2 Original MSD	Spike lot HGPW3	% Rec	MSD RPD	QC Limit
Mercury	0.85	11.2 (a) 12	86.3	2.7	20

Associated samples MP80495: JB70517-3, JB70517-4

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) Elevated sample detection limit due to difficult sample matrix.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JB70517
 Account: LANGAN - Langan Engineering & Environmental
 Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

QC Batch ID: MP80495
 Matrix Type: AQUEOUS

Methods: SW846 7470A
 Units: ug/l

Prep Date: 07/07/14

Metal	LCS Result	Spike lot HGPW3	% Rec	QC Limits
Mercury	2.0	2	100.0	80-120

Associated samples MP80495: JB70517-3, JB70517-4

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested

POST DIGESTATE SPIKE SUMMARY

Login Number: JB70517
 Account: LANGAN - Langan Engineering & Environmental
 Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

QC Batch ID: MP80495
 Matrix Type: AQUEOUS

Methods: SW846 7470A
 Units: ug/l

Prep Date:

07/07/14

Metal	Sample ml	Final ml	JB70198-2 Raw	PS Corr.** ug/l	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Mercury	15	15.6	.1418	.1363462	1.781	1	0.03	1.923077	85.5	85-115

Associated samples MP80495: JB70517-3, JB70517-4

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (**) Corr. sample result = Raw * (sample volume / final volume)
 (anr) Analyte not requested

Instrument Detection Limits

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Job Number: JB70517

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:

MA34366,MA34395

10.11
10

Instrument Detection Limits

Page 2 of 3

Job Number: JB70517

Account: LANGAN Langan Engineering & Environmental

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

Instrument ID: SSTRACE1

Effective Date: 07/01/14

Analyte	IDL ug/l
Aluminum	9.9
Antimony	3
Arsenic	.82
Barium	.24
Beryllium	.01
Bismuth	1.38
Boron	.09
Cadmium	.2
Calcium	41.1
Chromium	.3
Cobalt	.25
Copper	.37
Iron	2.1
Lead	1.07
Lithium	1.9
Magnesium	11.3
Manganese	.05
Molybdenum	.47
Nickel	.3
Palladium	.7
Potassium	39.9
Selenium	1.4
Silicon	7.6
Silver	.54
Sodium	11.8
Sulfur	2.38
Strontium	.15
Thallium	1.28
Tin	.69
Titanium	.68
Tungsten	7.39
Vanadium	.28
Zinc	.92
Zirconium	.39

The above applies to the following instrument runs:

MA34378,MA34381,MA34391

10.11
10

Instrument Detection Limits

Page 3 of 3

Job Number: JB70517

Account: LANGAN Langan Engineering & Environmental

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

Instrument ID: SSTRACE3

Effective Date: 06/24/14

Analyte	IDL ug/l
Aluminum	12
Antimony	1.24
Arsenic	1.34
Barium	.37
Beryllium	.1
Bismuth	2
Boron	.75
Cadmium	.23
Calcium	31.66
Chromium	.5
Cobalt	.28
Copper	.67
Iron	9.71
Lead	1.03
Lithium	1.26
Magnesium	37.6
Manganese	.1
Molybdenum	.39
Nickel	.32
Palladium	1.57
Potassium	23
Selenium	2.23
Silicon	7.02
Silver	.8
Sodium	6.83
Sulfur	2.92
Strontium	.13
Thallium	1.07
Tin	.83
Titanium	.39
Tungsten	8.15
Vanadium	.41
Zinc	4.91
Zirconium	.53

The above applies to the following instrument runs:
MA34361

10.11
10

Instrument Linear Ranges

Job Number: JB70517
Account: LANGAN Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Instrument ID: LEEMANHG8	Effective Date: 05/13/13
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Analyte	Linear Range ug/l
Mercury	5

The above applies to the following instrument runs:
MA34366,MA34395

Instrument Linear Ranges

Job Number: JB70517

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:
MA34378,MA34381,MA34391

Instrument Linear Ranges

Page 3 of 3

Job Number: JB70517

Account: LANGAN Langan Engineering & Environmental

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

Instrument ID: SSTRACE3

Effective Date: 06/24/14

Analyte	Linear Range ug/l
Aluminum	1000000
Antimony	50000
Arsenic	10000
Barium	50000
Beryllium	50000
Bismuth	50000
Boron	50000
Cadmium	10000
Calcium	500000
Chromium	50000
Cobalt	50000
Copper	50000
Iron	500000
Lead	50000
Lithium	50000
Magnesium	1000000
Manganese	10000
Molybdenum	50000
Nickel	50000
Palladium	25000
Potassium	1000000
Selenium	50000
Silicon	50000
Silver	2000
Sodium	1000000
Sulfur	100000
Strontium	50000
Thallium	50000
Tin	50000
Titanium	50000
Tungsten	10000
Vanadium	50000
Zinc	50000
Zirconium	50000

The above applies to the following instrument runs:
MA34361

10.11
10

Metals Analysis

Raw Data

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Sample Name: STDA Acquired: 7/1/2014 9:50:23 Type: Cal
Method: Accutest1(v35) 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	.0020	.0001	.0006	-0.001	.0000	.0021	.0000	-0.0006	-0.0001
Stddev	.0004	.0003	.0001	.0000	.0000	.0001	.0000	.0001	.0000
%RSD	19.69	206.2	23.10	85.14	160.2	2.668	3.608	17.73	11.98
#1	.0023	.0003	.0005	-0.0000	-0.0000	.0021	.0000	-0.0007	-0.0001
#2	.0018	-0.0001	.0007	-0.0001	.0000	.0022	.0000	-0.0006	-0.0001
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	.0000	.0006	-0.0001	-0.0001	.0000	.0000	.0002	.0000	.0045
Stddev	.0000	.0001	.0000	.0001	.0001	.0001	.0001	.0001	.0001
%RSD	111.4	9.155	19.68	40.95	428.5	352.8	25.97	1569.	1.982
#1	.0001	.0006	-0.0001	-0.0001	.0001	-0.0000	.0002	-0.0001	.0045
#2	.0000	.0007	-0.0000	-0.0002	-0.0001	.0001	.0003	.0001	.0044
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	.0004	-0.0001	.0048	-0.0008	.0004	.0007	-0.0000	.0065	.0003
Stddev	.0001	.0001	.0006	.0009	.0002	.0001	.0001	.0003	.0000
%RSD	29.17	142.3	12.90	113.8	44.10	19.61	139.3	3.899	2.572
#1	.0003	.0000	.0052	-.0014	.0003	.0008	-.0001	.0063	.0003
#2	.0004	-0.0001	.0044	-0.0001	.0005	.0006	-0.0000	.0066	.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	-0.0003	-0.0001	.0032	-0.0001	.0001	-0.0009	.0011		
Stddev	.0003	.0000	.0000	.0000	.0001	.0000	.0007		
%RSD	90.36	44.55	.8452	8.427	69.30	5.100	60.21		
#1	-0.0005	-0.0001	.0032	-0.0001	.0000	-0.0009	.0016		
#2	-0.0001	-0.0001	.0032	-0.0001	.0001	-0.0010	.0006		

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Sample Name: STDA Acquired: 7/1/2014 9:50:23 Type: Cal
Method: Accutest1(v35) 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	67664.	9582.3	2337.5	3679.8
Stddev	148.	13.7	3.9	9.6
%RSD	.21854	.14301	.16748	.25970
#1	67769.	9592.0	2334.8	3673.1
#2	67560.	9572.6	2340.3	3686.6

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Sample Name: STDb Acquired: 7/1/2014 9:56:25 Type: Cal
Method: Accutest1(v35) 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	10.81	6.738	4.407	2.535	.3738	.9326	2.399	1.972	.0656
Stddev	.02	.021	.018	.003	.0005	.0034	.001	.002	.0002
%RSD	.1649	.3190	.4191	.1014	.1264	.3672	.0429	.0968	.3498
#1	10.82	6.723	4.420	2.537	.3741	.9350	2.399	1.973	.0658
#2	10.79	6.754	4.394	2.533	.3734	.9302	2.398	1.971	.0655
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	.6361	4.425	.4348	.2953	.8377	.3366	.7362	2.963	4.352
Stddev	.0003	.017	.0020	.0003	.0023	.0022	.0024	.006	.002
%RSD	.0473	.3868	.4671	.1181	.2705	.6487	.3197	.2125	.0512
#1	.6363	4.437	.4363	.2955	.8393	.3381	.7379	2.978	4.351
#2	.6359	4.413	.4334	.2951	.8361	.3351	.7346	2.987	4.354
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	2.600	.4086	3.752	13.10	1.071	3.186	.2258	2.483	.7211
Stddev	.004	.0005	.006	.01	.005	.006	.0012	.007	.0029
%RSD	.1556	.1289	.1676	.0938	.4327	.1980	.5238	.2995	.3976
#1	2.597	.4082	3.757	13.09	1.074	3.191	.2266	2.488	.7231
#2	2.603	.4090	3.748	13.11	1.067	3.182	.2249	2.477	.7191
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	15.99	.5996	1.350	1.708	.2014	.8418	4.891		
Stddev	.00	.0001	.001	.000	.0010	.0025	.007		
%RSD	.0130	.0163	.0364	.0092	.4978	.2956	.1397		
#1	15.99	.5995	1.349	1.708	.2021	.8435	4.886		
#2	15.99	.5996	1.350	1.708	.2007	.8400	4.896		

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Sample Name: STDb Acquired: 7/1/2014 9:56:25 Type: Cal
Method: Accutest1(v35) 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	61852.	9397.3	2133.9	3057.5
Stddev	137.	60.4	6.1	2.2
%RSD	.22084	.64264	.28696	.07244
#1	61755.	9354.6	2129.6	3055.9
#2	61949.	9440.0	2138.2	3059.0

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Sample Name: ccvconf Acquired: 7/1/2014 10:02:13 Type: QC									
Method: Accutest1(v35) 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	1.998	1.986	2.002	2.035	1.930	2.038	2.004	2.444
Stddev	.001	.001	.012	.009	.006	.002	.003	.010	.0010
%RSD	.0726	.0382	.6013	.4759	.2837	.1230	.1561	.5025	.4237
#1	1.981	1.999	1.995	2.009	2.039	1.928	2.040	2.011	2.437
#2	1.979	1.998	1.978	1.995	2.031	1.931	2.036	1.997	2.452
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	2.018	2.011	1.963	2.067	2.017	1.965	1.992	39.48	40.14
Stddev	.002	.007	.010	.006	.009	.007	.014	.03	.02
%RSD	.0960	.3482	.5217	.2974	.4412	.3396	.7159	.0658	.0586
#1	2.019	2.016	1.971	2.072	2.024	1.970	2.002	39.46	40.15
#2	2.017	2.006	1.956	2.063	2.011	1.960	1.982	39.50	40.12
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	40.56	39.74	39.32	39.59	1.981	2.020	1.975	4.999	2.046
Stddev	.05	.04	.07	.13	.013	.011	.006	.029	.011
%RSD	.1310	.0928	.1857	.3166	.6503	.5460	.3277	.5910	.5362
#1	40.60	39.77	39.37	39.68	1.990	2.028	1.971	5.020	2.053
#2	40.52	39.72	39.26	39.50	1.971	2.012	1.980	4.978	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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[Zoom In](#)
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Sample Name: ccbconf Acquired: 7/1/2014 10:08:02 Type: QC									
Method: Accutest1(v35) 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	.0001	.0006	-0.0001	.0000	.0003	.0001
Stddev	.0001	.0001	.0001	.0001	.0001	.0003	.0000	.0002	.0001
%RSD	33.28	81.74	304.7	68.08	18.18	342.4	16.43	83.67	87.28
#1	.0003	.0000	.0001	.0001	.0005	.0001	.0000	.0004	.0001
#2	.0002	.0002	-.0001	.0000	.0007	-.0003	.0000	.0001	.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	-0.0002	-0.0001	.0009	-0.0005	.0007	.0005	.0001	-0.0089	-0.0002
Stddev	.0004	.0002	.0004	.0009	.0006	.0000	.0000	.0024	.0026
%RSD	217.7	247.0	47.68	189.7	79.34	7.145	34.79	27.38	1434.
#1	.0001	-.0002	.0006	.0002	.0011	.0005	.0001	-.0106	.0017
#2	-.0005	.0001	.0012	-.0012	.0003	.0005	.0001	-.0072	-.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	.0036	-0.0033	.0290	-0.0012	.0015	F .0024	-0.0002	.0012	.0005
Stddev	.0024	.0290	.0135	.0050	.0003	.0004	.0007	.0004	.0010
%RSD	65.10	892.9	46.49	401.5	19.82	15.04	301.0	34.13	196.0
#1	.0020	.0173	.0385	-.0048	.0017	.0026	.0003	.0009	-.0002
#2	.0053	-.0238	.0195	.0023	.0013	.0021	-.0007	.0015	.0012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0021			
Low Limit						-.0021			

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Sample Name: ccvconf Acquired: 7/1/2014 10:02:13 Type: QC									
Method: Accutest1(v35) 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	1.991	1.993	1.984	2.021	1.942	2.015	1.959		
Stddev	.001	.001	.005	.001	.007	.012	.011		
%RSD	.0706	.0416	.2515	.0494	.3581	.5838	.5351		
#1	1.992	1.993	1.988	2.022	1.947	2.023	1.966		
#2	1.990	1.994	1.980	2.020	1.937	2.006	1.951		
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	63879.	9390.2	2206.1	3210.5					
Stddev	162.	7.2	14.0	20.4					
%RSD	.25409	.07656	.63611	.63558					
#1	63764.	9395.3	2196.2	3196.1					
#2	63994.	9385.1	2216.0	3225.0					

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Sample Name: ccbconf Acquired: 7/1/2014 10:08:02 Type: QC									
Method: Accutest1(v35) 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	-0.0001	.0006	.0233	.0011	.0044	.0032	-0.0008		
Stddev	.0000	.0000	.0011	.0000	.0009	.0013	.0003		
%RSD	37.21	5.860	4.732	2.466	19.72	39.28	37.07		
#1	-.0000	.0006	.0241	.0011	.0038	.0041	-.0010		
#2	-.0001	.0005	.0225	.0011	.0050	.0023	-.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	67920.	9655.3	2337.1	3647.6					
Stddev	73.	51.5	2.3	1.9					
%RSD	.10713	.53377	.09652	.05128					
#1	67972.	9618.9	2335.5	3649.0					
#2	67869.	9691.8	2338.7	3646.3					

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Sample Name: icv Acquired: 7/1/2014 10:22:26 Type: QC
Method: Accutest1(v35) 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	1.976	1.983	1.984	1.982	2.016	1.927	2.017	2.007	2.429
Stddev	.004	.004	.002	.005	.013	.010	.006	.006	.0012
%RSD	.2236	.2142	.0856	.2451	.6278	.5393	.2817	.2769	.5056
#1	1.980	1.978	1.985	1.988	2.027	1.916	2.023	2.013	2.421
#2	1.972	1.985	1.985	1.980	2.018	1.937	2.015	2.005	2.443
#3	1.975	1.985	1.982	1.979	2.002	1.928	2.012	2.003	2.423

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	2.011	1.997	2.065	2.019	1.972	1.976	38.90	40.15
Stddev	.003	.012	.003	.004	.004	.002	.003	.12	.03
%RSD	.1578	.5941	.1494	.1960	.1925	.0871	.1492	.3006	.0774
#1	1.999	2.024	1.998	2.063	2.023	1.971	1.973	38.79	40.11
#2	1.995	2.010	1.999	2.061	2.016	1.974	1.979	38.89	40.16
#3	1.993	2.000	1.993	2.069	2.018	1.972	1.976	39.02	40.17

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	40.82	39.67	40.11	39.88	2.027	1.943	1.968	5.090	2.018
Stddev	.05	.09	.07	.05	.001	.004	.011	.004	.005
%RSD	.1202	.2196	.1837	.1314	.0382	.2094	.5316	.0866	.2614
#1	40.77	39.70	40.18	39.93	2.027	1.946	1.958	5.092	2.023
#2	40.80	39.57	40.03	39.83	2.026	1.945	1.978	5.092	2.019
#3	40.87	39.73	40.10	39.87	2.027	1.938	1.969	5.085	2.013

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: 7/1/2014 10:22:26 Type: QC
Method: Accutest1(v35) 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	1.996	2.008	2.132	2.054	1.925	1.973	2.020
Stddev	.002	.002	.009	.004	.005	.000	.002
%RSD	.1036	.1023	.4168	.2111	.2556	.0208	.1179
#1	1.998	2.011	2.140	2.056	1.925	1.973	2.021
#2	1.994	2.007	2.133	2.058	1.931	1.974	2.017
#3	1.996	2.008	2.122	2.049	1.921	1.973	2.021

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	64303.	9557.5	2222.0	3218.0
Stddev	108.	22.1	5.4	6.6
%RSD	.16870	.23144	.24102	.20421
#1	64179.	9538.6	2216.4	3210.6
#2	64382.	9581.8	2222.7	3223.2
#3	64347.	9552.2	2227.0	3220.3

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Sample Name: icb Acquired: 7/1/2014 10:32:13 Type: QC
Method: Accutest1(v35) 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	.0002	.0002	-.0002	.0000	.0001	.0004
Stddev	.0000	.0000	.0001	.0001	.0002	.0000	.0000	.0000	.0003
%RSD	57.52	30.81	91.25	35.03	101.2	13.89	114.0	29.03	81.57
#1	.0004	.0001	-.0001	.0002	.0003	-.0002	.0000	.0001	.0002
#2	.0002	.0001	-.0003	.0001	.0001	-.0001	.0001	.0001	.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	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	-.0002	.0003	-.0004	.0003	-.0006	.0011	-.0070	.0003
Stddev	.0002	.0001	.0005	.0011	.0005	.0000	.0002	.0041	.0025
%RSD	156.5	61.60	193.0	250.5	165.3	6.151	18.32	58.59	910.8
#1	.0000	-.0001	-.0001	-.0012	.0006	-.0005	.0013	-.0041	-.0015
#2	-.0003	-.0003	.0006	.0003	-.0001	-.0006	.0010	-.0099	.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	.0003	-.0012	.0209	-.0003	.0024	.0017	-.0005	.0010	-.0000
Stddev	.0002	.0181	.0183	.0005	.0007	.0002	.0005	.0004	.0001
%RSD	54.14	1495.	87.39	177.8	28.19	12.38	84.67	38.23	268.5
#1	.0002	-.0140	.0080	-.0006	.0028	.0018	-.0009	.0012	-.0001
#2	.0005	.0116	.0338	.0001	.0019	.0015	-.0002	.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

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Sample Name: icb Acquired: 7/1/2014 10:32:13 Type: QC
Method: Accutest1(v35) 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	.0006	.0181	.0010	-.0011	.0034	-.0003
Stddev	.0000	.0002	.0011	.0000	.0031	.0003	.0002
%RSD	128.3	37.36	6.037	.2602	277.9	9.500	52.90
#1	.0000	.0004	.0189	.0010	-.0034	.0036	-.0004
#2	.0000	.0007	.0174	.0010	.0011	.0031	-.0002

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	68179.	9621.6	2359.9	3676.7
Stddev	88.	25.9	4.1	7.4
%RSD	.12867	.26941	.17342	.20133
#1	68241.	9639.9	2357.0	3671.4
#2	68117.	9603.2	2362.8	3681.9

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Sample Name: iccv Acquired: 7/1/2014 10:37:21 Type: QC
Method: Accutest1(v35) 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	1.953	1.967	1.974	1.994	2.000	1.910	2.009	1.999	2.414
Stddev	.001	.008	.002	.005	.005	.001	.004	.005	.0005
%RSD	.0591	.4246	.1013	.2688	.2727	.0448	.1922	.2381	.2128
#1	1.955	1.963	1.971	2.001	1.993	1.911	2.005	2.003	2.413
#2	1.952	1.971	1.973	1.995	1.998	1.910	2.007	2.003	2.412
#3	1.952	1.957	1.976	1.994	2.003	1.912	2.011	1.998	2.422
#4	1.953	1.976	1.975	1.988	2.005	1.910	2.014	1.993	2.411

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	1.989	1.989	1.951	2.056	2.013	1.955	1.982	38.77	39.56
Stddev	.004	.010	.005	.006	.003	.003	.006	.13	.20
%RSD	.2281	.5127	.2487	.2803	.1460	.1742	.2850	.3434	.5071

#1	1.984	2.000	1.945	2.057	2.015	1.952	1.976	38.63	39.40
#2	1.987	1.992	1.953	2.064	2.016	1.953	1.978	38.76	39.68
#3	1.989	1.989	1.956	2.052	2.012	1.958	1.984	38.74	39.37
#4	1.995	1.976	1.949	2.051	2.010	1.959	1.988	38.95	39.77

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: 7/1/2014 10:37:21 Type: QC
Method: Accutest1(v35) 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	64619.	9504.0	2224.6	3223.1
Stddev	191.	47.9	3.9	4.1
%RSD	.29557	.50420	.17341	.12724

#1	64838.	9571.5	2221.7	3217.1
#2	64507.	9472.5	2230.2	3226.2
#3	64418.	9504.7	2222.9	3223.6
#4	64713.	9467.3	2223.4	3225.3

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Sample Name: iccv Acquired: 7/1/2014 10:37:21 Type: QC
Method: Accutest1(v35) 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	39.99	39.29	38.82	39.01	1.969	2.007	1.958	4.967	2.032
Stddev	.15	.11	.02	.04	.003	.000	.003	.008	.002
%RSD	.3638	.2727	.0479	.0952	.1511	.0209	.1509	.1543	.1014
#1	39.88	39.27	38.83	39.04	1.966	2.007	1.961	4.959	2.033
#2	40.09	39.25	38.82	38.97	1.967	2.006	1.958	4.962	2.035
#3	39.86	39.20	38.79	38.99	1.971	2.007	1.959	4.973	2.032
#4	40.15	39.45	38.83	39.04	1.972	2.006	1.954	4.974	2.030

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	1.961	1.969	1.971	1.997	1.930	2.007	1.932
Stddev	.001	.004	.005	.002	.002	.009	.004
%RSD	.0235	.2023	.2794	.0808	.1126	.4260	.2274

#1	1.961	1.967	1.964	1.995	1.930	1.998	1.938
#2	1.962	1.965	1.970	1.996	1.933	2.002	1.928
#3	1.961	1.969	1.974	1.997	1.930	2.012	1.931
#4	1.962	1.974	1.976	1.999	1.928	2.016	1.930

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: 7/1/2014 10:56:01 Type: QC
Method: Accutest1(v35) 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	-0.0001	.0002	.0004	-0.0002	.0000	.0003	-0.0003
Stddev	.0001	.0001	.0000	.0001	.0001	.0002	.0000	.0000	.0001
%RSD	42.30	43.93	39.59	88.94	16.24	104.5	15.57	12.48	35.54

#1	.0002	.0002	-0.0001	.0001	.0005	-0.0004	.0000	.0002	-0.0002
#2	.0003	.0001	-0.0001	.0003	.0004	-0.0001	.0000	.0003	-0.0004

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	-0.0002	.0000	-0.0003	-0.0017	-0.0001	.0004	.0000	-0.0080	.0001
Stddev	.0001	.0001	.0013	.0007	.0010	.0002	.0012	.0060	.0021
%RSD	62.61	930.8	429.8	39.54	742.0	41.06	15850.	75.02	2446.

#1	-0.0001	.0000	.0006	-0.0012	.0006	.0003	-0.0008	-0.0123	.0015
#2	-0.0002	-0.0000	-0.0013	-0.0022	-0.0009	.0005	.0008	-0.0038	-0.0014

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	.0017	.0122	.0303	.0002	.0013	.0006	.0003	.0001	.0002
Stddev	.0006	.0075	.0081	.0036	.0001	.0000	.0006	.0004	.0002
%RSD	36.89	61.67	26.74	1741.	6.123	3.293	242.3	586.5	107.0

#1	.0013	.0069	.0361	-0.0024	.0013	.0006	-0.0002	-0.0002	.0004
#2	.0022	.0175	.0246	.0028	.0014	.0006	.0007	.0004	.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: 7/1/2014 10:56:01 Type: QC
Method: Accutest1(v35) 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	.0002	.0159	.0007	.0006	.0020	~.0005
Stddev	.0001	.0001	.0006	.0000	.0000	.0003	.0001
%RSD	532.2	58.19	3.672	7.015	3.809	14.26	16.98
#1	-.0000	.0003	.0163	.0007	.0006	.0022	-.0006
#2	.0001	.0001	.0155	.0006	.0006	.0018	-.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	68054.	9555.7	2343.2	3655.5
Stddev	59.	7.9	6.3	6.6
%RSD	.08611	.08270	.26994	.18104
#1	68095.	9561.2	2338.7	3650.9
#2	68012.	9550.1	2347.7	3660.2

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Sample Name: cri Acquired: 7/1/2014 11:03:47 Type: QC
Method: Accutest1(v35) 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	.2005	.0023	.0032	.0511	.0112	.0099	.0160	.0103	.0047
Stddev	.0003	.0000	.0001	.0001	.0002	.0007	.0001	.0006	.0003
%RSD	.1441	.8813	2.075	.2374	1.475	7.316	.4143	5.651	5.286
#1	.2003	.0023	.0032	.0512	.0110	.0094	.0161	.0099	.0046
#2	.2007	.0022	.0032	.0510	.0113	.0104	.0160	.0107	.0049

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	.0538	.0230	.0082	.0108	.0028	.0114	.0056	.1938	5.067
Stddev	.0005	.0001	.0009	.0006	.0001	.0001	.0003	.0061	.020
%RSD	.8852	.5102	10.44	5.385	4.649	.6105	5.492	3.138	.3977
#1	.0541	.0231	.0076	.0112	.0028	.0113	.0054	.1895	5.081
#2	.0535	.0230	.0089	.0104	.0029	.0114	.0058	.1981	5.052

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	.1095	4.993	4.886	4.927	.1026	.0209	.0552	.2111	.0102
Stddev	.0007	.007	.007	.008	.0008	.0001	.0007	.0009	.0000
%RSD	.6194	.1353	.1372	.1599	.8268	.2405	1.317	4.308	.1556
#1	.1100	4.998	4.891	4.932	.1020	.0209	.0557	.2117	.0102
#2	.1091	4.989	4.882	4.921	.1032	.0210	.0547	.2104	.0102

Check ? Value
Range

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Sample Name: cri Acquired: 7/1/2014 11:03:47 Type: QC
Method: Accutest1(v35) 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	.0104	.0110	F .0662	.0123	.0463	.0237	.0195
Stddev	.0001	.0001	.0006	.0001	.0013	.0002	.0005
%RSD	.9222	1.284	.8827	.5551	2.821	.9255	2.787
#1	.0105	.0111	.0658	.0124	.0454	.0238	.0198
#2	.0104	.0109	.0666	.0123	.0473	.0235	.0191

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	67606.	9711.3	2312.4	3566.6
Stddev	248.	16.2	5.1	8.6
%RSD	.36699	.16692	.22217	.23978
#1	67781.	9699.8	2316.1	3572.7
#2	67430.	9722.8	2308.8	3560.6

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Sample Name: crid Acquired: 7/1/2014 11:09:49 Type: QC
Method: Accutest1(v35) 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	.0010	.0010	.0032	.0023	.0015	.0031	.0042
Stddev	.0001	.0002	.0000	.0002	.0002	.0007	.0000	.0003
%RSD	3.527	17.81	4.600	7.510	7.381	44.58	1.146	7.707
#1	.0041	.0011	.0011	.0030	.0024	.0020	.0032	.0040
#2	.0039	.0009	.0010	.0033	.0021	.0010	.0031	.0045

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	.0017	.0112	.0029	F .0032	.0032	.0047	.0028
Stddev	.0002	.0001	.0001	.0004	.0002	.0003	.0005	.0007
%RSD	18.33	8.077	1.142	15.04	6.614	9.131	11.18	25.89
#1	.0010	.0018	.0113	.0026	.0033	.0030	.0051	.0023
#2	.0007	.0016	.0111	.0032	.0030	.0034	.0043	.0033

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Fail Chk Pass Chk Pass Chk Pass
Value .0020
Range 30.00%

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0936	1.024	.0030	.1162	1.969	.9911	.0109	.0003
Stddev	.0052	.013	.0003	.0012	.014	.0000	.0000	.0002
%RSD	5.571	1.269	11.15	1.054	.7319	.0029	.4569	62.06
#1	.0973	1.014	.0027	.1170	1.959	.9911	.0109	.0005
#2	.0899	1.033	.0032	.1153	1.980	.9912	.0109	.0002

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: 7/1/2014 11:09:49 Type: QC
Method: Accutest1(v35) 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	-0.011	.0007	.0000	-0.001	.0002	F .0072	F .0003	F .0011
Stddev	.0011	.0005	.0005	.0001	.0003	.0009	.0001	.0023
%RSD	102.7	76.35	6373.	180.8	109.4	12.06	43.91	213.0

#1	-.0018	.0010	-.0004	-.0001	.0001	.0078	.0004	-.0005
#2	-.0003	.0003	-.0003	.0000	.0004	.0066	.0002	.0027

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 .0011	F -.0010
Stddev	.0009	.0001
%RSD	80.42	12.96

#1	.0017	-.0009
#2	.0005	-.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	67802.	9680.7	2340.9	3620.5
Stddev	274.	26.1	2.8	2.0
%RSD	40444	.26943	.11808	.05529

#1	67608.	9699.1	2339.0	3619.1
#2	67996.	9662.3	2342.9	3621.9

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Sample Name: cria Acquired: 7/1/2014 11:15:56 Type: QC
Method: Accutest1(v35) 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	-0.0001	.0002	.0038	.0003	-0.0012	.0022	-0.0009
Stddev	.0000	.0001	.0002	.0002	.0028	.0006	.0002
%RSD	3.026	73.26	4.720	68.72	238.3	28.07	17.97

#1	-.0001	.0003	.0039	.0004	-.0031	.0018	-.0008
#2	-.0001	.0001	.0037	.0001	.0008	.0026	-.0011

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	67544.	9570.5	2339.1	3625.7
Stddev	63.	11.8	8	5
%RSD	.09282	.12306	.03521	.01331

#1	67500.	9562.1	2339.7	3625.4
#2	67588.	9578.8	2338.5	3626.1

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Sample Name: cria Acquired: 7/1/2014 11:15:56 Type: QC
Method: Accutest1(v35) 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	-0.0000	.0001	.0002	-0.0004	-0.0000	.0003	.0002
Stddev	.0003	.0001	.0001	.0000	.0001	.0002	.0000	.0001	.0007
%RSD	124.7	244.4	843.0	22.92	46.28	51.08	189.5	27.89	375.6

#1	.0000	.0001	.0001	.0001	.0001	-.0006	-.0000	.0003	.0007
#2	.0005	-.0000	-.0001	.0001	.0002	-.0003	.0000	.0004	-.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	-0.0004	.0007	.0205	-0.0004	.0210	.0212	.0198	.4820	-0.0013
Stddev	.0002	.0000	.0005	.0003	.0003	.0007	.0004	.0102	.0054
%RSD	43.56	.0661	2.236	64.65	1.565	3.211	2.079	2.110	430.8

#1	-.0003	.0007	.0202	-.0002	.0207	.0217	.0195	.4892	.0026
#2	-.0006	.0007	.0209	-.0006	.0212	.0207	.0201	.4748	-.0051

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	.5315	-0.0220	.0372	-0.0055	.0007	.0002	-0.0009	.0006	.0000
Stddev	.0027	.0089	.0132	.0032	.0006	.0002	.0007	.0008	.0002
%RSD	.5007	40.53	35.49	58.19	89.19	93.11	69.13	121.8	2036.

#1	.5334	-.0157	.0465	-.0077	.0003	.0001	-.0014	.0001	.0002
#2	.5297	-.0283	.0279	-.0032	.0011	.0003	-.0005	.0011	-.0001

Check ?	Chk Pass	None	None	None	None	None	None	None	None
Value									
Range									

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Sample Name: crid Acquired: 7/1/2014 11:22:03 Type: QC
Method: Accutest1(v35) 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	.0009	.0031	.0021	.0018	.0032	.0042
Stddev	.0002	.0000	.0000	.0001	.0003	.0000	.0000	.0000
%RSD	4.117	.3453	2.768	1.819	15.37	1.358	.0792	.4678

#1	.0043	.0011	.0009	.0031	.0019	.0017	.0032	.0043
#2	.0041	.0011	.0009	.0032	.0023	.0018	.0032	.0042

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	.0019	.0114	.0032	.0024	.0027	.0036	.0025
Stddev	.0003	.0001	.0001	.0001	.0000	.0005	.0009	.0003
%RSD	31.69	3.674	.8871	2.478	1.586	17.84	24.82	11.78

#1	.0007	.0019	.0113	.0032	.0024	.0030	.0030	.0027
#2	.0011	.0018	.0114	.0033	.0025	.0024	.0042	.0023

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	.0930	1.030	.0009	.0895	1.991	.9923	.0104	.0002
Stddev	.0081	.005	.0033	.0175	.023	.0091	.0004	.0003
%RSD	8.667	.4511	353.7	19.57	1.154	.9170	3.452	122.9

#1	.0986	1.027	.0033	.0771	2.007	.9859	.0107	.0000
#2	.0873	1.034	-.0014	.1019	1.974	.9987	.0102	.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: 7/1/2014 11:22:03 Type: QC
Method: Accutest1(v35) 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	.0010	.0003	.0000	.0001	.0048	F.0003	F.0002
Stddev	.0008	.0001	.0000	.0001	.0000	.0000	.0001	.0002
%RSD	363.1	10.76	4.924	181.1	46.17	.9209	30.60	66.92
#1	.0008	.0009	.0003	-.0001	.0001	.0048	.0003	.0001
#2	-.0003	.0011	.0003	.0000	.0000	.0048	.0004	.0003

Check ?	None	None	None	None	None	Chk Pass	Chk Fail	Chk Fail
Value							.0040	.0040
Range							-30.00%	-30.00%

Elem	Bi2230	Li6707
Units	ppm	ppm
Avg	F.0008	F-.0011
Stddev	.0010	.0011
%RSD	138.0	101.0

#1	.0000	-.0003
#2	.0015	-.0018

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	67481.	9665.8	2324.2	3600.1
Stddev	74.	34.9	2.4	11.5
%RSD	.10952	.36100	.10131	.31882

#1	67429.	9641.1	2325.9	3608.2
#2	67533.	9690.5	2322.5	3592.0

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Sample Name: icsa Acquired: 7/1/2014 11:28:08 Type: QC
Method: Accutest1(v35) 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	.0050	.0023	.0386	.0006	.0313	.0258	.0027
Stddev	.0002	.0002	.0002	.0002	.0026	.0003	.0003
%RSD	4.182	8.217	.6331	31.36	8.355	1.255	11.87

#1	-.0051	.0022	-.0388	.0008	-.0332	.0256	.0029
#2	-.0048	.0024	-.0384	.0005	-.0295	.0261	.0024

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	57451.	9122.7	1967.4	2694.6
Stddev	74.	18.8	2.8	7
%RSD	.12805	.20648	.14022	.02780

#1	57503.	9109.3	1965.4	2695.1
#2	57399.	9136.0	1969.3	2694.1

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Sample Name: icsa Acquired: 7/1/2014 11:28:08 Type: QC
Method: Accutest1(v35) 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	.0007	.0014	.0005	-.0016	-.0008	.0006	.0010	.0014
Stddev	.0001	.0001	.0002	.0000	.0000	.0003	.0000	.0005	.0005
%RSD	8.049	11.34	13.00	5.981	1.101	39.69	1.874	51.46	34.46
#1	-.0012	.0008	.0012	.0005	-.0016	-.0010	.0006	.0006	.0011
#2	-.0011	.0007	.0015	.0005	-.0016	-.0006	.0006	.0014	.0017

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	.0043	.0002	.0026	.0015	-.0003	.0049	.0000	503.3	379.4
Stddev	.0000	.0001	.0013	.0004	.0027	.0014	.0005	.9	2.1
%RSD	1.066	45.00	52.12	28.52	894.9	27.94	23380.	.1764	.5550

#1	.0043	.0001	.0016	.0018	-.0022	.0040	-.0004	504.0	380.9
#2	.0042	.0002	.0035	.0012	.0016	.0059	.0004	502.7	377.9

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	187.3	491.3	-.0053	-.0318	-.0007	.0015	-.0337	-.0087	-.0031
Stddev	.3	.9	.0085	.0029	.0002	.0009	.0004	.0009	.0001
%RSD	.1616	.1755	161.2	9.187	26.48	62.20	1.074	9.861	4.292

#1	187.5	491.9	.0007	-.0298	-.0008	.0021	-.0334	-.0094	-.0032
#2	187.1	490.7	-.0113	-.0339	-.0005	.0008	-.0340	-.0081	-.0031

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: ICSAB Acquired: 7/1/2014 11:34:12 Type: QC
Method: Accutest1(v35) 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	.4792	.4795	.9958	.4815	.4816	.4895	.4867	.9365	1.010
Stddev	.0004	.0020	.0018	.0017	.0001	.0014	.0000	.0038	.001
%RSD	.0897	.4266	.1794	.3555	.0301	.2795	.0086	.4016	.0913

#1	.4789	.4781	.9970	.4827	.4815	.4904	.4868	.9391	1.010
#2	.4795	.4810	.9945	.4803	.4817	.4885	.4867	.9338	1.011

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	.4865	.9352	1.019	.9465	.9460	1.000	.9968	498.8	374.9
Stddev	.0001	.0001	.001	.0036	.0023	.003	.0025	1.5	1.2
%RSD	.0146	.0117	.1061	.3792	.2450	.2886	.2505	.3101	.3198

#1	.4865	.9351	1.019	.9490	.9476	1.002	.9986	497.7	374.0
#2	.4864	.9353	1.018	.9439	.9444	.9981	.9951	499.9	375.7

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	186.1	492.4	.0305	-.0241	.0048	.4887	.4885	-.0071	-.0028
Stddev	.5	.9	.0204	.0026	.0003	.0008	.0015	.0012	.0004
%RSD	.2701	.1905	66.86	10.63	6.383	.1593	.3061	17.41	13.65

#1	185.8	491.8	.0161	-.0223	.0046	.4893	.4874	-.0079	-.0026
#2	186.5	493.1	.0449	-.0260	.0050	.4882	.4895	-.0062	-.0031

Check ?	Chk Pass	Chk Pass	None	None	None	Chk Pass	Chk Pass	None	None
Value									
Range									

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Sample Name: ICSAB Acquired: 7/1/2014 11:34:12 Type: QC
Method: Accutest1(v35) 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	-0.0049	.0016	.4926	.4539	.4626	.5171	.5065
Stddev	.0000	.0002	.0039	.0030	.0028	.0019	.0009
%RSD	.2729	13.27	.8004	.6619	.5962	.3714	.1745
#1	-.0049	.0018	.4954	.4517	.4646	.5185	.5058
#2	-.0049	.0015	.4898	.4560	.4607	.5158	.5071

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	57549	9089.7	1980.2	2710.5
Stddev	96.	9.2	1.5	6.9
%RSD	.16622	.10111	.07763	.25360
#1	57481.	9096.2	1981.3	2705.6
#2	57617.	9083.2	1979.1	2715.3

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Sample Name: feconf Acquired: 7/1/2014 11:40:02 Type: Unk
Method: Accutest1(v35) 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	.0007	.0004	-.0012	-.0010	.0002	.0016	.0020	.0025
Stddev	.0001	.0000	.0004	.0002	.0003	.0006	.0001	.0002	.0008
%RSD	103.3	5.990	98.42	17.16	28.93	258.4	5.510	10.01	32.21

#1	.0001	.0007	.0007	-.0014	-.0008	-.0002	.0015	.0018	.0019
#2	.0000	.0006	.0001	-.0011	-.0012	.0006	.0016	.0021	.0030

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0045	.0044	.0007	.0062	.0020	-.0003	.0001	-.0175	-.0094
Stddev	.0001	.0001	.0018	.0005	.0001	.0001	.0007	.0006	.0035
%RSD	2.591	1.612	272.6	7.815	4.837	34.86	746.3	3.413	37.40

#1	.0044	.0045	-.0006	.0066	.0019	-.0002	.0006	-.0171	-.0069
#2	.0046	.0044	.0019	.0059	.0020	-.0004	-.0004	-.0180	-.0119

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	212.7	.0208	.0153	.0044	-.0025	.0005	-.0261	-.0076	-.0024
Stddev	.2	.0209	.0161	.0022	.0004	.0001	.0001	.0009	.0003
%RSD	.0727	100.4	105.6	49.31	15.74	18.03	.2319	12.12	14.39

#1	212.8	.0060	.0039	.0060	-.0022	.0006	-.0261	-.0083	-.0022
#2	212.6	.0355	.0266	.0029	-.0027	.0005	-.0260	-.0070	-.0027

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Avg	-.0000	-.0002	.0062	.0095	.0031	.0241	-.0010
Stddev	.0001	.0000	.0001	.0002	.0030	.0001	.0002
%RSD	3630.	21.53	1.708	2.212	98.37	.3928	20.56

#1	-.0001	-.0001	.0063	.0097	.0009	.0240	-.0008
#2	.0001	-.0002	.0061	.0094	.0052	.0241	-.0011

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	66213.	9594.8	2264.7	3500.3
Stddev	385.	36.3	.5	.5
%RSD	.58191	.37877	.02292	.01515
#1	66485.	9620.5	2264.4	3500.0
#2	65940.	9569.1	2265.1	3500.7

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Sample Name: crconf Acquired: 7/1/2014 11:46:04 Type: Unk
Method: Accutest1(v35) 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	.0003	-.0002	-.0004	10.33	.0019	-.0011	.0004	-.0004
Stddev	.0001	.0000	.0001	.0001	.02	.0008	.0000	.0002	.0006
%RSD	14.44	14.86	58.64	18.41	.2024	41.54	1.295	55.05	136.6

#1	.0007	.0003	-.0001	-.0004	10.35	.0013	-.0011	.0005	-.0008
#2	.0006	.0003	-.0003	-.0003	10.32	.0024	-.0011	.0002	-.0000

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0066	.0058	.0046	.0010	.0011	-.0026	.0020	-.0020	.0329
Stddev	.0000	.0001	.0000	.0001	.0005	.0021	.0015	.0166	.0013
%RSD	.5359	1.769	.8063	8.186	43.60	81.27	77.09	837.9	3.919

#1	.0065	.0057	.0046	.0011	.0007	-.0041	.0009	.0097	.0320
#2	.0066	.0059	.0047	.0009	.0014	-.0011	.0031	-.0137	.0338

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0318	.0138	.0228	.0025	-.0001	.0006	-.0007	.0037	-.0006
Stddev	.0018	.0078	.0063	.0030	.0002	.0001	.0012	.0011	.0002
%RSD	5.542	56.60	27.42	120.7	159.4	10.28	175.0	28.13	36.62

#1	.0305	.0083	.0272	.0004	.0000	.0007	.0002	.0030	-.0005
#2	.0330	.0194	.0184	.0046	-.0002	.0006	-.0015	.0045	-.0008

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Avg	.0001	.0006	.0054	.0011	.0033	.0133	-.0004
Stddev	.0000	.0001	.0009	.0001	.0028	.0002	.0010
%RSD	3.228	20.77	15.76	6.070	85.14	1.766	219.8

#1	.0001	.0007	.0061	.0011	.0052	.0134	.0002
#2	.0001	.0005	.0048	.0010	.0013	.0131	-.0011

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	67525	9646.5	2275.7	3602.2
Stddev	51.	23.2	2.5	7.3
%RSD	.07530	.24042	.10873	.20162
#1	67490.	9662.9	2277.5	3607.3
#2	67561.	9630.1	2274.0	3597.0

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Sample Name: ccvcrconf Acquired: 7/1/2014 11:52:07 Type: Unk
Method: Accutest1(v35) 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	1.920	1.968	1.975	1.964	2.003	1.905	2.010	1.982	.2375
Stddev	.001	.005	.014	.007	.001	.005	.002	.006	.0000
%RSD	.0307	.2814	.6969	.3749	.0321	.2482	.0736	.2924	.0074

#1	1.920	1.972	1.985	1.969	2.002	1.901	2.011	1.986	.2375
#2	1.920	1.964	1.965	1.959	2.003	1.908	2.009	1.978	.2374

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	1.977	1.987	1.930	2.081	2.025	1.971	1.951	39.16	39.54
Stddev	.000	.004	.011	.006	.006	.017	.017	.02	.05
%RSD	.0158	.1962	.5690	.2946	.3186	.8751	.8690	.0502	.1338

#1	1.977	1.990	1.938	2.086	2.029	1.983	1.963	39.14	39.58
#2	1.977	1.985	1.922	2.077	2.020	1.959	1.939	39.17	39.51

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	39.94	39.15	38.90	39.28	2.058	1.915	1.956	2.173	2.029
Stddev	.03	.08	.02	.01	.013	.009	.011	.019	.011
%RSD	.0666	.1963	.0595	.0243	.6523	.4721	.5613	.8776	.5343

#1	39.96	39.21	38.92	39.27	2.068	1.921	1.948	2.186	2.037
#2	39.92	39.10	38.89	39.28	2.049	1.909	1.964	2.159	2.022

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Avg	1.962	1.996	1.905	1.930	1.947	1.950	1.882
Stddev	.001	.001	.006	.000	.015	.015	.003
%RSD	.0574	.0589	.3000	.0173	.7443	.7678	.1469

#1	1.961	1.997	1.909	1.929	1.957	1.960	1.880
#2	1.963	1.995	1.901	1.930	1.937	1.939	1.884

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	64714	9594.0	2224.6	3199.7
Stddev	141.	4.7	11.7	13.0
%RSD	.21810	.04852	.52792	.40497
#1	64814.	9597.3	2216.3	3190.6
#2	64615.	9590.7	2232.9	3208.9

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Sample Name: ccv Acquired: 7/1/2014 11:57:55 Type: QC									
Method: Accutest1(v35) 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	1.954	1.972	1.968	2.000	1.993	1.886	2.003	2.010	2.398
Stddev	.001	.002	.004	.004	.000	.011	.001	.003	.0004
%RSD	.0359	.0941	.2014	.2120	.0005	.5667	.0557	.1236	.1605
#1	1.953	1.973	1.966	1.997	1.993	1.879	2.002	2.008	2401
#2	1.954	1.971	1.971	2.003	1.993	1.894	2.003	2.011	2395
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	1.992	1.951	2.063	2.022	1.952	1.977	38.98	39.47
Stddev	.001	.004	.005	.009	.002	.008	.005	.03	.10
%RSD	.0374	.1971	.2461	.4184	.0782	.4123	.2377	.0707	.2407
#1	1.981	1.989	1.948	2.057	2.021	1.947	1.974	39.00	39.54
#2	1.982	1.994	1.955	2.069	2.023	1.958	1.980	38.96	39.40
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	39.84	39.14	38.83	39.12	1.965	2.008	1.938	4.952	2.033
Stddev	.08	.06	.13	.06	.005	.005	.011	.012	.008
%RSD	.2091	.1471	.3321	.1621	.2501	.2305	.5872	.2446	.3934
#1	39.89	39.10	38.74	39.07	1.961	2.005	1.930	4.944	2.027
#2	39.78	39.18	38.92	39.16	1.968	2.012	1.946	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									

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Sample Name: ccv Acquired: 7/1/2014 11:57:55 Type: QC							
Method: Accutest1(v35) 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	1.963	1.965	1.968	1.993	1.934	1.995	1.943
Stddev	.001	.006	.013	.003	.007	.007	.005
%RSD	.0358	.3270	.6330	.1480	.3753	.3742	.2544
#1	1.963	1.961	1.959	1.991	1.929	1.990	1.940
#2	1.964	1.970	1.977	1.995	1.939	2.001	1.947
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	64691.	9534.4	2221.0	3197.5			
Stddev	76.	19.6	3.8	5.3			
%RSD	.11719	.20595	.17084	.16600			
#1	64637.	9520.6	2223.7	3201.2			
#2	64745.	9548.3	2218.3	3193.7			

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Sample Name: ccb Acquired: 7/1/2014 12:03:44 Type: QC									
Method: Accutest1(v35) 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	.0002	.0001	.0002	.0005	-.0004	.0001	.0002	.0004
Stddev	.0000	.0001	.0000	.0001	.0001	.0001	.0000	.0000	.0006
%RSD	22.39	52.76	31.67	45.71	20.08	34.91	20.27	.4800	154.1
#1	.0002	.0001	.0001	.0002	.0005	-.0005	.0001	.0002	.0008
#2	.0002	.0003	.0001	.0003	.0006	-.0003	.0001	.0002	-.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	-.0002	-.0001	.0008	-.0009	.0001	-.0003	.0004	-.0060	.0006
Stddev	.0004	.0000	.0001	.0003	.0008	.0021	.0002	.0034	.0005
%RSD	242.8	5.694	9.495	27.91	622.8	608.2	52.11	56.91	76.15
#1	.0001	-.0001	.0009	-.0008	-.0004	-.0018	.0005	-.0084	.0003
#2	-.0005	-.0001	.0008	-.0011	.0007	.0011	.0002	-.0036	.0010
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	.0045	.0088	.0397	-.0081	.0014	F .0024	.0002	.0012	.0004
Stddev	.0013	.0128	.0024	.0016	.0001	.0005	.0004	.0001	.0001
%RSD	28.38	146.4	6.060	19.99	6.891	20.57	179.0	5.715	22.72
#1	.0054	-.0003	.0380	-.0093	.0013	.0027	-.0001	.0011	.0005
#2	.0036	.0178	.0414	-.0070	.0015	.0020	.0005	.0012	.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0021			
Low Limit						-.0021			

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Sample Name: ccb Acquired: 7/1/2014 12:03:44 Type: QC							
Method: Accutest1(v35) 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	.0240	.0014	-.0023	.0034	-.0006
Stddev	.0000	.0001	.0013	.0000	.0000	.0001	.0007
%RSD	49.43	49.76	5.219	2.316	1.983	1.632	114.0
#1	.0001	.0004	.0249	.0014	-.0022	.0035	-.0001
#2	.0000	.0002	.0231	.0014	-.0023	.0034	-.0010
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	68405.	9662.1	2348.0	3644.2			
Stddev	176.	20.8	4.	2.9			
%RSD	.25784	.21475	.01625	.07882			
#1	68280.	9676.8	2348.3	3642.2			
#2	68530.	9647.5	2347.8	3646.3			

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Sample Name: mp80355-mb1conf Acquired: 7/1/2014 12:09:50 Type: Unk
Method: Accutest1(v35) 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	.0001	-.0002	.0000	.0001	-.0009	.0000	.0002	.0004
Stddev	.0001	.0001	.0000	.0002	.0002	.0002	.0000	.0002	.0000
%RSD	1280.	165.6	4.329	319.4	336.3	21.12	15.92	120.0	1.070
#1	-.0001	-.0000	-.0002	.0002	-.0001	-.0008	.0000	.0000	.0004
#2	.0001	.0001	-.0002	-.0001	.0002	-.0010	.0000	.0003	.0004
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0001	.0003	.0002	-.0008	-.0003	-.0019	.0003	-.0084	.0033
Stddev	.0002	.0000	.0003	.0003	.0015	.0012	.0008	.0104	.0008
%RSD	177.3	2.012	156.7	42.90	584.9	63.79	230.8	123.6	24.88
#1	-.0000	.0003	-.0000	-.0010	-.0013	-.0010	-.0002	-.0011	.0027
#2	.0003	.0003	.0005	-.0006	.0008	-.0027	.0009	-.0158	.0039
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0050	-.0001	.0123	-.0091	.0005	.0007	-.0009	.0010	-.0000
Stddev	.0001	.0095	.0079	.0029	.0006	.0002	.0009	.0002	.0004
%RSD	2.030	13090.	63.94	31.52	136.8	23.08	91.38	19.32	965.1
#1	.0051	-.0068	.0179	-.0071	.0009	.0008	-.0003	.0008	.0002
#2	.0049	.0066	.0068	-.0112	.0000	.0006	-.0015	.0011	-.0003
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0001	.0004	.0117	.0008	.0016	.0026	-.0001		
Stddev	.0001	.0003	.0013	.0000	.0020	.0008	.0012		
%RSD	137.5	74.65	11.14	.1924	122.9	29.46	16.30		
#1	.0000	.0002	.0126	.0008	.0002	.0032	-.0012		
#2	.0001	.0006	.0108	.0008	.0030	.0021	-.0009		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	67798.	9636.2	2345.7	3634.8					
Stddev	109.	20.1	5.6	10.5					
%RSD	.16109	.20856	.23804	.28774					
#1	67721.	9622.0	2349.6	3642.2					
#2	67875.	9650.4	2341.7	3627.4					

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Sample Name: mp80355-lc1_1 Acquired: 7/1/2014 12:15:54 Type: Unk
Method: Accutest1(v35) 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	.4830	.4922	.5109	.4874	.5059	.4726	.5081	.4984	.1899
Stddev	.0002	.0006	.0007	.0006	.0019	.0026	.0000	.0002	.0013
%RSD	.0439	.1287	.1278	.1294	.3797	.5430	.0011	.0412	.7041
#1	.4829	.4918	.5113	.4878	.5073	.4745	.5082	.4985	.1908
#2	.4832	.4927	.5104	.4869	.5046	.4708	.5081	.4983	.1890
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.4949	.5057	.5073	.5624	.5172	.5318	.5034	.4842	.5455
Stddev	.0004	.0001	.0006	.0007	.0009	.0031	.0011	.018	.021
%RSD	.0797	.0136	.1170	.1228	.1645	.5817	.2242	.3820	.3929
#1	.4952	.5057	.5077	.5629	.5178	.5340	.5042	.4855	.5440
#2	.4946	.5056	.5069	.5619	.5166	.5296	.5026	.4829	.5470
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.5549	.5285	.9676	.9830	.0075	.5055	-.0015	.0166	.0014
Stddev	.026	.024	.047	.013	.0009	.0003	.0008	.0002	.0001
%RSD	.4619	.4449	.4814	.1338	11.71	.0641	.5651	1.091	10.09
#1	.5567	.5268	.9709	.9840	.0082	.5053	-.0021	.0165	.0013
#2	.5531	.5301	.9643	.9821	.0069	.5057	-.0009	.0167	.0015
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	-.0002	.5002	.0133	.0044	.0032	.0032	.0002		
Stddev	.0001	.0004	.0001	.0001	.0017	.0005	.0005		
%RSD	32.23	.0743	1.082	1.957	54.25	15.90	230.9		
#1	-.0002	.5005	.0132	.0045	.0020	.0035	-.0001		
#2	-.0001	.4999	.0134	.0044	.0028	.0028	.0005		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	67318.	9846.2	2306.7	3525.6					
Stddev	223.	10.3	4.4	4.8					
%RSD	.33087	.10504	.19072	.13722					
#1	67161.	9838.9	2309.8	3529.0					
#2	67476.	9853.5	2303.6	3522.2					

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Sample Name: jb70044-24 Acquired: 7/1/2014 12:21:47 Type: Unk
Method: Accutest1(v35) 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	.0002	-.0003	-.0000	.0003	.0001
Stddev	.0002	.0000	.0001	.0001	.0007	.0004	.0000	.0001	.0003
%RSD	104.9	108.5	48.05	42.01	297.2	128.7	791.8	47.60	307.0
#1	.0003	.0000	.0002	.0001	.0007	-.0000	.0000	.0002	.0003
#2	.0000	.0000	.0001	.0002	-.0003	-.0006	-.0000	.0004	-.0001
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	-.0003	-.0000	-.0006	-.0005	-.0001	.0003	-.0002	-.0093	-.0009
Stddev	.0001	.0001	.0004	.0002	.0001	.0010	.0010	.0036	.0026
%RSD	23.44	337.1	69.60	32.79	205.4	335.1	668.3	39.05	301.1
#1	-.0003	.0000	-.0003	-.0004	.0000	.0010	.0006	-.0067	.0010
#2	-.0004	-.0001	-.0009	-.0006	-.0001	-.0004	-.0009	-.0119	-.0027
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0034	.0018	.0104	-.0054	.0004	.0008	-.0009	.0018	-.0004
Stddev	.0041	.0044	.0036	.0035	.0006	.0000	.0000	.0003	.0002
%RSD	120.3	238.9	34.20	65.17	155.0	.0979	.7506	13.69	38.69
#1	.0063	.0049	.0079	-.0078	.0008	.0008	-.0010	.0020	-.0003
#2	.0005	-.0013	.0129	-.0029	-.0000	.0008	-.0009	.0017	-.0006
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0000	.0004	.0071	.0004	-.0007	.0012	-.0015		
Stddev	.0001	.0003	.0001	.0000	.0003	.0020	.0002		
%RSD	332.6	72.77	1.751	13.19	44.01	168.5	13.11		
#1	-.0000	.0002	.0072	.0004	-.0009	-.0002	-.0017		
#2	.0001	.0007	.0071	.0003	-.0005	.0026	-.0014		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	67866.	9693.2	2341.8	3625.6					
Stddev	160.	1.9	.1	7.0					
%RSD	.23547	.01971	.00374	.19410					
#1	67979.	9694.6	2341.7	3630.6					
#2	67753.	9691.9	2341.9	3620.6					

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Sample Name: jb70044-27 Acquired: 7/1/2014 12:27:51 Type: Unk
Method: Accutest1(v35) 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	.0739	.0001	-.0001	.0020	.0059	.0015	.0125	.0060	.0003
Stddev	.0002	.0001	.0001	.0000	.0002	.0005	.0000	.0002	.0003
%RSD	.3200	66.79	65.90	1.529	3.219	31.37	.2936	2.783	95.42
#1	.0740	.0001	-.0000	.0020	.0058	.0012	.0125	.0059	.0005
#2	.0737	.0002	-.0001	.0020	.0060	.0019	.0125	.0062	.0001
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0016	.0103	.0020	.0006	.0017	-.0004	-.0023	.6379	12.61
Stddev	.0000	.0000	.0004	.0002	.0005	.0004	.0006	.0002	.04
%RSD	2.793	.0291	19.20	41.04	29.59	108.5	24.78	.0249	.2773
#1	.0016	.0103	.0023	.0004	.0021	-.0001	-.0019	.6380	12.63
#2	.0015	.0103	.0018	.0008	.0013	-.0007	-.0027	.6378	12.58
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	1.000	1.247	1.940	12.41	.0144	.0005	.0032	3.920	-.0007
Stddev	.003	.019	.014	.02	.0001	.0003	.0005	.002	.0002
%RSD	.3106	1.556	.7410	.1359	.7376	46.84	14.58	.0431	29.49
#1	.9979	1.233	1.951	12.40	.0145	.0004	.0036	3.922	-.0008
#2	1.002	1.261	1.930	12.42	.0144	.0007	.0029	3.919	-.0005
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.3923	.0061	.0025	-.0031	1.274	.0032	.0019		
Stddev	.0000	.0004	.0000	.0001	.002	.0007	.0009		
%RSD	.0007	7.189	.8250	2.521	.1418	20.36	49.16		
#1	.3923	.0058	.0026	-.0031	1.272	.0028	.0013		
#2	.3923	.0064	.0025	-.0032	1.275	.0037	.0026		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	67365.	9830.5	2319.7	3579.1					
Stddev	147.	58.6	5.0	13.2					
%RSD	.21895	.59602	.21633	.36856					
#1	67261.	9789.1	2323.3	3588.4					
#2	67469.	9871.9	2316.2	3569.7					

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Sample Name: jb70529-5fundconf Acquired: 7/1/2014 12:33:54 Type: Unk
Method: Accutest1(v35) 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	.0311	.0017	.0013	.0158	-.0011	-.0005	1.585	.0641	-.0099
Stddev	.0004	.0000	.0001	.0002	.0000	.0005	.001	.0006	.0016
%RSD	1.299	.4394	5.776	.9800	.0506	117.9	.0467	.9761	15.78
#1	.0314	.0017	.0014	.0159	-.0011	-.0001	1.585	.0645	-.0110
#2	.0308	.0018	.0013	.0157	-.0011	-.0009	1.586	.0636	-.0088
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0124	.3064	.0220	-.0038	.0147	.0030	-.0045	.2135	216.5
Stddev	.0001	.0023	.0023	.0016	.0007	.0022	.0023	.0053	.0
%RSD	.6461	.7396	10.66	42.51	4.792	72.40	51.26	2.502	.0120
#1	.0125	.3081	.0236	-.0050	.0142	.0015	-.0062	.2097	216.5
#2	.0124	.3048	.0203	-.0027	.0152	.0046	-.0029	.2172	216.5
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	356.5	85.36	12.84	495.4	.0832	.0010	.0639	20.82	-.0058
Stddev	.3	.25	.03	6.0	.0005	.0001	.0018	.13	.0008
%RSD	.0908	.2885	.2700	1.216	.6326	14.13	2.857	.6042	13.82
#1	356.7	85.54	12.86	491.2	.0836	.0011	.0652	20.91	-.0052
#2	356.2	85.19	12.82	499.7	.0829	.0009	.0626	20.73	-.0063
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.8071	.0008	.0666	-.0380	536.9	.0414	.0731		
Stddev	.0000	.0002	.0065	.0005	3.2	.0009	.0001		
%RSD	.0028	19.74	9.820	1.313	.5891	2.285	.1364		
#1	.8071	.0009	.0713	-.0384	539.1	.0420	.0730		
#2	.8072	.0007	.0620	-.0377	534.6	.0407	.0732		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	59768.	9546.0	2011.0	2973.4					
Stddev	30.	13.6	15.1	18.7					
%RSD	.05075	.14221	.75313	.62890					
#1	59747.	9555.6	2000.3	2960.1					
#2	59790.	9536.4	2021.7	2986.6					

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Sample Name: mp80375-mb1 Acquired: 7/1/2014 12:39:58 Type: Unk
Method: Accutest1(v35) 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	.0003	-.0001	.0001	.0002	-.0001
Stddev	.0000	.0000	.0001	.0003	.0003	.0004	.0000	.0002	.0005
%RSD	8.361	29.13	124.0	215.8	100.7	827.3	2.153	102.1	529.4
#1	.0002	-.0001	-.0000	.0003	.0001	.0003	.0001	.0001	.0003
#2	.0002	-.0000	-.0001	-.0003	.0005	-.0004	.0001	.0003	-.0005
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	-.0002	.0008	.0005	-.0008	.0007	.0012	.0002	-.0075	.0192
Stddev	.0000	.0000	.0010	.0010	.0009	.0003	.0011	.0056	.0029
%RSD	2.528	.8843	201.5	112.1	124.0	25.35	638.6	75.03	15.29
#1	-.0002	.0008	-.0002	-.0015	.0014	.0014	.0009	-.0115	.0212
#2	-.0002	.0008	.0013	-.0002	.0001	.0010	-.0006	-.0035	.0171
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0267	.0097	.0067	.0248	.0005	.0002	-.0011	.0023	.0005
Stddev	.0001	.0101	.0297	.0016	.0001	.0000	.0001	.0002	.0003
%RSD	.4841	104.1	444.4	6.548	13.25	11.45	11.25	10.13	64.94
#1	.0266	.0168	-.0143	.0260	.0005	.0003	-.0010	.0024	.0002
#2	.0268	.0025	.0277	.0237	.0004	.0002	-.0012	.0021	.0007
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0000	.0001	.0059	.0005	.0050	.0001	-.0006		
Stddev	.0000	.0005	.0003	.0000	.0008	.0010	.0003		
%RSD	40.96	666.1	5.224	3.115	15.39	1024.	42.60		
#1	.0001	.0005	.0061	.0004	.0055	-.0006	-.0008		
#2	.0000	-.0003	.0056	.0005	.0045	.0008	-.0004		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	67938.	9600.4	2327.6	3621.7					
Stddev	24.	164.9	10.1	11.6					
%RSD	.03479	1.7175	.43526	.32069					
#1	67955.	9483.8	2320.4	3613.5					
#2	67921.	9717.0	2334.7	3629.9					

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Sample Name: jb70341-3 Acquired: 7/1/2014 12:46:03 Type: Unk
Method: Accutest1(v35) 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	.0348	.0002	.0006	-.0004	.0045	.0096	.1242	.0059	-.0008
Stddev	.0015	.0004	.0014	.0013	.0008	.0007	.0003	.0020	.0011
%RSD	4.429	157.6	227.0	330.0	16.81	7.480	.2621	34.29	141.0
#1	.0358	-.0000	.0016	.0005	.0040	.0101	.1244	.0045	-.0016
#2	.0337	.0005	-.0004	-.0013	.0050	.0091	.1239	.0074	-.0000
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0028	.0137	.0020	.0141	.0058	.0012	-.0020	.1751	148.1
Stddev	.0001	.0005	.0030	.0048	.0001	.0012	.0047	.0637	.7
%RSD	1.866	3.834	147.3	33.62	2.183	104.5	239.4	36.40	.4960
#1	.0028	.0141	-.0001	.0175	.0057	.0003	.0014	.1301	148.6
#2	.0029	.0133	.0041	.0108	.0059	.0021	-.0053	.2202	147.6
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	4900	415.5	132.2	3194.	1.455	.0058	.0478	1.801	-.0049
Stddev	.0010	.7	.2	69.	.012	.0004	.0013	.006	.0009
%RSD	.2090	.1752	.1314	2.171	.8312	7.206	2.637	.3502	19.07
#1	.4907	416.0	132.0	3145.	1.446	.0055	.0469	1.797	-.0043
#2	.4892	415.0	132.3	3243.	1.463	.0061	.0487	1.806	-.0056
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	2.506	.0105	-.0044	-.0118	302.6	.0121	.0656		
Stddev	.003	.0031	.0036	.0001	.1	.0049	.0025		
%RSD	.1152	29.63	81.46	.8814	.0353	40.89	3.764		
#1	2.508	.0083	-.0019	-.0117	302.5	.0156	.0674		
#2	2.504	.0127	-.0070	-.0118	302.7	.0086	.0639		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	58503.	9267.9	2023.0	2815.0					
Stddev	182.	9.3	2.7	.5					
%RSD	.31024	.09989	.13146	.01916					
#1	58631.	9274.5	2024.9	2815.4					
#2	58375.	9261.4	2021.2	2814.6					

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Sample Name: mp80365-mb1conf Acquired: 7/1/2014 12:52:10 Type: Unk
Method: Accutest1(v35) 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	.0004	.0001	-.0001	-.0000	.0002	-.0003	.0002	.0002	.0001
Stddev	.0001	.0000	.0002	.0001	.0003	.0001	.0000	.0001	.0010
%RSD	26.29	31.12	237.9	982.4	131.5	34.47	25.61	45.67	1919.
#1	.0005	.0002	-.0002	-.0000	.0000	-.0003	.0002	.0003	.0008
#2	.0003	.0001	.0000	.0000	.0005	-.0004	.0001	.0001	-.0007
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0000	.0003	-.0002	-.0012	-.0001	.0003	.0015	-.0023	.0014
Stddev	.0001	.0000	.0007	.0006	.0003	.0023	.0008	.0153	.0015
%RSD	235.6	6.308	364.3	46.08	302.1	669.5	54.99	662.3	108.3
#1	-.0000	.0003	-.0006	-.0016	.0001	.0020	.0021	.0085	.0025
#2	.0001	.0003	.0003	-.0008	-.0003	-.0013	.0009	-.0131	.0003
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0120	-.0010	.0401	.0560	.0005	.0002	.0005	.0111	.0003
Stddev	.0018	.0124	.0225	.0096	.0002	.0001	.0008	.0023	.0004
%RSD	15.11	1302.	56.23	17.22	48.35	45.82	155.3	20.74	121.8
#1	.0107	-.0097	.0560	.0628	.0003	.0003	.0011	.0128	.0000
#2	.0133	.0078	.0241	.0492	.0006	.0002	-.0001	.0095	.0006
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0000	.0003	.0045	.0004	.0009	.0004	.0000		
Stddev	.0000	.0002	.0012	.0001	.0020	.0004	.0005		
%RSD	61.43	71.78	26.73	28.79	218.0	87.07	1003.		
#1	.0000	.0005	.0053	.0003	-.0005	.0002	-.0003		
#2	.0001	.0002	.0036	.0005	.0023	.0007	.0004		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	67671.	9737.6	2338.5	3640.2					
Stddev	32.	2.3	4.8	2.9					
%RSD	.04721	.02397	.20444	.08079					
#1	67694.	9739.3	2335.1	3638.1					
#2	67648.	9736.0	2341.8	3642.3					

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Sample Name: jb70345-9f 2 Acquired: 7/1/2014 12:58:16 Type: Unk
Method: Accutest1(v35) 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	.1607	.0004	.0004	.0154	.0342	.0194	.8369	.0172	.0012
Stddev	.0003	.0000	.0000	.0000	.0010	.0000	.0022	.0003	.0006
%RSD	.1674	2.197	.8735	.1235	2.793	.2230	.2663	1.974	48.30
#1	.1609	.0004	.0004	.0154	.0349	.0193	.8385	.0174	.0016
#2	.1605	.0004	.0004	.0154	.0335	.0194	.8353	.0170	.0008
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0264	.0447	.0043	.0012	.0143	.0051	.0009	12.21	15.15
Stddev	.0002	.0002	.0004	.0012	.0013	.0010	.0004	.00	.01
%RSD	.6416	.4179	8.942	96.91	8.755	19.22	41.03	.0216	.0487
#1	.0263	.0446	.0045	.0021	.0152	.0044	.0011	12.21	15.14
#2	.0265	.0448	.0040	.0004	.0134	.0058	.0006	12.21	15.15
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	8.702	2.118	7.816	732.0	.0528	.0407	.0142	14.51	-0.001
Stddev	.028	.041	.027	22.4	.0002	.0001	.0001	.02	.0002
%RSD	.3206	1.910	.3403	3.063	.4309	.3111	.9019	.1101	184.8
#1	8.682	2.147	7.797	747.9	.0530	.0408	.0141	14.52	-.0002
#2	8.721	2.090	7.835	716.2	.0527	.0406	.0143	14.50	.0000
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0928	.2500	.0168	-.0047	6.274	-.0003	.0053		
Stddev	.0001	.0007	.0001	.0001	.014	.0002	.0002		
%RSD	.1131	.2962	.4350	2.700	.2189	52.86	3.544		
#1	.0928	.2506	.0168	-.0046	6.284	-.0002	.0054		
#2	.0929	.2495	.0167	-.0048	6.264	-.0004	.0051		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	59834.	9375.1	2093.1	2826.9					
Stddev	217.	31.5	.5	.9					
%RSD	.36221	.33626	.02538	.03356					
#1	59681.	9352.9	2092.7	2826.3					
#2	59988.	9397.4	2093.4	2827.6					

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Sample Name: ccv Acquired: 7/1/2014 13:04:22 Type: QC
Method: Accutest1(v35) 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	1.975	1.979	1.995	2.019	2.020	1.938	2.023	2.031	2.441
Stddev	.000	.004	.004	.004	.014	.010	.010	.005	.0006
%RSD	.0084	.1774	.1863	.2008	.6972	.4941	.4882	.2473	.2590
#1	1.975	1.976	1.993	2.016	2.030	1.932	2.030	2.028	2.436
#2	1.975	1.981	1.998	2.022	2.010	1.945	2.016	2.035	2.445
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	2.003	1.979	2.089	2.045	1.981	2.010	39.34	39.59
Stddev	.010	.009	.009	.000	.004	.004	.002	.06	.10
%RSD	.5181	.4587	.4792	.0016	.2012	.1909	.1003	.1475	2428
#1	2.010	1.996	1.972	2.089	2.042	1.978	2.012	39.30	39.53
#2	1.995	2.009	1.986	2.089	2.048	1.984	2.009	39.38	39.66
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	39.81	39.09	39.30	39.66	1.994	2.033	2.004	5.043	2.056
Stddev	.10	.17	.03	.09	.002	.006	.016	.006	.005
%RSD	.2493	.4252	.0790	.2373	.1156	.2975	.7973	.1235	.2406
#1	39.74	38.97	39.28	39.59	1.993	2.029	1.992	5.039	2.052
#2	39.88	39.20	39.33	39.73	1.996	2.038	2.015	5.048	2.059
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: 7/1/2014 13:04:22 Type: QC
Method: Accutest1(v35) 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	1.985	1.990	1.956	2.017	1.954	2.033	1.971
Stddev	.001	.007	.012	.005	.011	.002	.003
%RSD	.0418	.3607	.6086	.2633	.5578	.1115	.1533
#1	1.985	1.995	1.948	2.021	1.947	2.034	1.969
#2	1.984	1.985	1.965	2.013	1.962	2.031	1.973
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	64370.	9538.9	2206.3	3176.6			
Stddev	353.	29.0	2.7	3.0			
%RSD	.54886	.30384	.12108	.09452			
#1	64120.	9559.4	2208.2	3178.7			
#2	64620.	9518.4	2204.4	3174.5			

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Sample Name: ccb Acquired: 7/1/2014 13:10:12 Type: QC
Method: Accutest1(v35) 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	-.0000	.0001	-.0002	-.0007	-.0001	.0002	-.0000
Stddev	.0001	.0001	.0001	.0001	.0003	.0004	.0001	.0001	.0004
%RSD	53.50	124.2	652.0	103.3	155.3	49.51	88.56	58.72	31390.
#1	.0001	.0001	.0001	.0000	-.0000	-.0005	-.0000	.0001	.0003
#2	.0003	.0000	-.0001	.0001	-.0004	-.0010	-.0001	.0003	-.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									
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	-.0007	-.0005	-.0015	.0002	-.0113	-.0028
Stddev	.0003	.0000	.0007	.0007	.0009	.0023	.0002	.0052	.0012
%RSD	131.5	20.93	142.7	103.6	194.2	157.6	95.66	45.72	44.43
#1	-.0000	-.0001	.0010	-.0012	-.0011	-.0031	.0001	-.0077	-.0019
#2	-.0004	-.0002	-.0000	-.0002	.0002	.0002	.0004	-.0150	-.0036
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									
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	.0025	.0369	.0320	.0011	.0014	.0004	-.0006	.0004
Stddev	.0007	.0028	.0216	.0042	.0001	.0005	.0011	.0009	.0005
%RSD	111.6	112.1	58.61	13.27	4.840	32.77	268.2	150.3	123.6
#1	-.0001	.0044	.0522	.0290	.0011	.0018	.0012	.0000	.0008
#2	-.0011	.0005	.0216	.0350	.0012	.0011	-.0004	-.0013	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									
High Limit									
Low Limit									

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Sample Name: ccb Acquired: 7/1/2014 13:10:12 Type: QC
Method: Accutest1(v35) 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	-0.0001	.0004	.0114	.0008	.0018	.0026	.0005
Stddev	.0000	.0004	.0005	.0002	.0031	.0003	.0007
%RSD	32.55	92.12	4.190	27.67	168.7	9.792	147.0
#1	-.0001	.0007	.0118	.0007	-.0004	.0028	-.0000
#2	-.0001	.0002	.0111	.0010	.0040	.0024	.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	67956.	9653.6	2350.7	3626.6
Stddev	167.	27.7	4.7	7.7
%RSD	.24546	.28686	.20041	.21347
#1	68074.	9673.2	2347.3	3621.1
#2	67838.	9634.0	2354.0	3632.1

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Sample Name: jb70345-10f Acquired: 7/1/2014 13:16:20 Type: Unk
Method: Accutest1(v35) 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	.3863	.0028	.0014	.0170	.2222	.0704	.4257	.0686	.0023
Stddev	.0012	.0000	.0000	.0001	.0009	.0010	.0010	.0002	.0004
%RSD	.3199	.9797	2.836	.5197	.4025	1.356	.2384	.2853	18.37
#1	.3855	.0028	.0014	.0170	.2216	.0711	.4250	.0685	.0020
#2	.3872	.0028	.0015	.0171	.2228	.0697	.4265	.0688	.0026

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.2266	.1332	.0390	-.0003	.1162	.0169	-.0006	122.1	39.57
Stddev	.0002	.0012	.0007	.0000	.0020	.0033	.0013	.2	.24
%RSD	.1024	.8781	1.726	3.979	1.700	19.29	202.3	.1562	.6141
#1	.2264	.1323	.0394	-.0003	.1148	.0192	.0003	122.3	39.74
#2	.2268	.1340	.0385	-.0003	.1176	.0146	-.0015	122.0	39.39

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	91.67	12.42	8.706	126.6	.0485	.0281	.0322	47.86	.0015
Stddev	.39	.04	.002	.2	.0005	.0001	.0001	.06	.0010
%RSD	.4270	.3018	.0201	.1766	.9404	.3143	.4482	.1234	67.13
#1	91.95	12.39	8.707	126.5	.0481	.0281	.0321	47.82	.0008
#2	91.40	12.44	8.704	126.8	.0488	.0282	.0323	47.91	.0022

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Avg	.1960	1.107	.0471	-.0213	3.241	.0026	.0350
Stddev	.0000	.001	.0003	.0001	.002	.0003	.0003
%RSD	.0002	.0855	.6208	.3703	.0552	12.03	.9645
#1	.1960	1.106	.0473	-.0212	3.242	.0028	.0353
#2	.1960	1.108	.0469	-.0213	3.240	.0024	.0348

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	65076.	9774.0	2244.7	3105.8
Stddev	50.	34.6	4.1	8.3
%RSD	.07630	.35388	.18477	.26713
#1	65111.	9749.5	2247.6	3111.7
#2	65040.	9798.5	2241.7	3099.9

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Sample Name: jb70345-15f Acquired: 7/1/2014 13:22:17 Type: Unk
Method: Accutest1(v35) 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	1.948	.0002	.0021	.0077	.0213	.0101	1.097	.0200	.0005
Stddev	.001	.0001	.0000	.0003	.0002	.0006	.001	.0005	.0004
%RSD	.0461	43.00	.2691	4.040	1.140	5.820	.0553	2.648	78.55
#1	1.949	.0003	.0021	.0075	.0211	.0097	1.097	.0196	.0007
#2	1.948	.0002	.0021	.0079	.0215	.0105	1.098	.0203	.0002

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0217	.1987	.0128	-.0009	.0121	.0043	.0006	10.47	119.0
Stddev	.0002	.0006	.0001	.0015	.0010	.0010	.0001	.01	.1
%RSD	.7253	.2780	.7840	161.3	8.173	24.44	11.13	.0963	.0991
#1	.0218	.1991	.0129	-.0020	.0114	.0050	.0007	10.46	118.9
#2	.0216	.1983	.0127	-.0001	.0128	.0035	.0006	10.47	119.1

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	31.12	15.15	12.62	1809.	.0540	.0054	.0137	16.62	-.0021
Stddev	.01	.11	.00	17.	.0002	.0002	.0011	.01	.0009
%RSD	.0269	.7039	.0383	.9523	.4404	4.188	8.158	.0879	42.56
#1	31.11	15.07	12.62	1797.	.0541	.0053	.0129	16.63	-.0014
#2	31.12	15.22	12.63	1822.	.0538	.0056	.0145	16.61	-.0027

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Avg	.6408	.1944	.0135	-.0072	16.33	.0038	.0189
Stddev	.0003	.0003	.0005	.0001	.00	.0009	.0005
%RSD	.0501	.1776	3.908	.7859	.0205	23.35	2.520
#1	.6410	.1947	.0138	-.0073	16.33	.0044	.0186
#2	.6406	.1942	.0131	-.0072	16.33	.0032	.0193

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	54251.	9020.7	1920.6	2499.4
Stddev	245.	18.5	1.9	4.0
%RSD	.45092	.20458	.10038	.16095
#1	54078.	9033.7	1919.3	2496.6
#2	54424.	9007.6	1922.0	2502.2

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Sample Name: jb70345-16f Acquired: 7/1/2014 13:28:19 Type: Unk
Method: Accutest1(v35) 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	.6784	.0003	.0005	.0205	.0244	.0106	1.298	.0130	.0013
Stddev	.0012	.0000	.0002	.0001	.0000	.0006	.000	.0000	.0007
%RSD	.1799	12.42	44.53	.3424	.0673	5.965	.0123	.0026	54.03
#1	.6773	.0004	.0007	.0206	.0243	.0102	1.298	.0130	.0018
#2	.6756	.0003	.0004	.0205	.0244	.0111	1.298	.0130	.0008

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0277	.0243	.0080	-.0025	.0113	.0054	.0011	10.89	126.8
Stddev	.0004	.0000	.0018	.0014	.0004	.0005	.0000	.01	.6
%RSD	1.534	.0642	22.62	53.99	3.891	9.610	3.284	.0622	.4786
#1	.0274	.0243	.0067	-.0016	.0116	.0050	.0011	10.89	126.4
#2	.0280	.0243	.0092	-.0035	.0110	.0057	.0011	10.90	127.3

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	14.41	30.32	11.04	483.5	.0937	.0065	.0149	15.76	-.0015
Stddev	.01	.13	.01	3.0	.0001	.0001	.0008	.08	.0006
%RSD	.0351	.4225	.0516	.6160	.1010	1.962	5.056	.5170	42.67
#1	14.42	30.23	11.04	485.6	.0937	.0066	.0143	15.82	-.0010
#2	14.41	30.41	11.03	481.4	.0936	.0064	.0154	15.71	-.0019

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Avg	.5958	.1871	.0059	-.0070	17.22	.0020	.0081
Stddev	.0008	.0011	.0006	.0001	.08	.0009	.0001
%RSD	.1276	.5697	10.29	1.539	.4613	43.51	1.141
#1	.5963	.1878	.0054	-.0071	17.28	.0014	.0081
#2	.5953	.1863	.0063	-.0069	17.16	.0026	.0082

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	60680.	9462.3	2086.6	2865.5
Stddev	98.	45.1	7.9	9.1
%RSD	.16103	.47650	.37778	.31758
#1	60749.	9494.2	2081.0	2859.0
#2	60611.	9430.5	2092.1	2871.9

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Sample Name: jb70345-17f Acquired: 7/1/2014 13:34:22 Type: Unk
Method: Accutest1(v35) 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	.0886	.0003	.0004	.0029	.0178	.0142	.1267	.0092	.0003
Stddev	.0003	.0001	.0000	.0003	.0004	.0000	.0002	.0003	.0002
%RSD	.3393	35.70	6.128	10.55	1.966	.3412	.1533	2.834	84.14
#1	.0888	.0004	.0004	.0032	.0181	.0142	.1266	.0094	.0004
#2	.0884	.0002	.0004	.0027	.0176	.0142	.1268	.0090	.0001
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0176	.0278	.0047	.0002	.0148	.0035	.0011	9.919	11.05
Stddev	.0001	.0001	.0009	.0006	.0009	.0017	.0011	.026	.01
%RSD	.3122	.4013	18.63	377.6	5.952	49.29	104.9	2624	.1248
#1	.0176	.0277	.0040	.0006	.0142	.0047	.0003	9.900	11.04
#2	.0175	.0278	.0053	.0006	.0154	.0023	.0019	9.937	11.06
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	6.954	2.575	3.730	279.7	.0200	.0147	.0112	11.81	-.0003
Stddev	.017	.010	.031	1.0	.0003	.0001	.0012	.04	.0003
%RSD	.2398	.3870	.8343	.3696	1.273	.7564	10.24	.3023	122.4
#1	6.943	2.568	3.752	280.5	.0202	.0146	.0120	11.84	-.0005
#2	6.966	2.582	3.708	279.0	.0198	.0148	.0104	11.79	-.0000
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0638	.1798	.0161	-.0051	4.365	.0006	.0042		
Stddev	.0003	.0002	.0003	.0003	.007	.0000	.0008		
%RSD	.4108	.1241	1.674	5.216	.1620	3.469	18.78		
#1	.0636	.1797	.0159	-.0052	4.370	.0006	.0047		
#2	.0640	.1800	.0163	-.0049	4.360	.0006	.0036		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	63310.	9576.2	2196.1	3088.4					
Stddev	179.	6.8	5.4	4.6					
%RSD	.28269	.07058	.24566	.14940					
#1	63437.	9571.5	2192.3	3085.2					
#2	63183.	9581.0	2199.9	3091.7					

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◀ Zoom In ▶
Zoom Out

Sample Name: jb70345-18f Acquired: 7/1/2014 13:40:27 Type: Unk
Method: Accutest1(v35) 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	.0476	.0000	-.0000	.0048	.0010	.0028	.1905	.0053	.0007
Stddev	.0006	.0001	.0001	.0000	.0001	.0001	.0004	.0000	.0001
%RSD	1.183	260.8	474.4	.1836	9.654	4.112	.1892	.8257	13.53
#1	.0472	-.0000	-.0001	.0048	.0011	.0027	.1902	.0053	.0006
#2	.0480	.0001	.0000	.0048	.0010	.0029	.1907	.0052	.0008
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0015	.0057	.0025	-.0007	.0015	.0029	.0013	.3238	24.84
Stddev	.0004	.0001	.0001	.0001	.0001	.0010	.0008	.0005	.18
%RSD	27.06	1.602	5.362	11.31	8.797	33.41	63.49	.1499	.7410
#1	.0012	.0058	.0026	-.0008	.0015	.0022	.0007	.3235	24.97
#2	.0018	.0056	.0024	-.0007	.0014	.0036	.0019	.3241	24.71
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	2.958	3.104	3.157	31.76	.0266	.0107	.0032	4.525	-.0008
Stddev	.030	.035	.007	.00	.0001	.0002	.0011	.015	.0008
%RSD	1.005	1.113	.2173	.0077	.4868	2.105	33.53	.3292	101.3
#1	2.979	3.128	3.152	31.77	.0267	.0105	.0024	4.535	-.0014
#2	2.937	3.079	3.162	31.76	.0265	.0108	.0039	4.514	-.0002
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.1462	.0076	.0038	-.0028	2.372	.0001	-.0000		
Stddev	.0002	.0000	.0013	.0000	.005	.0002	.0002		
%RSD	.1212	.4804	33.70	.8462	.2073	130.6	461.6		
#1	.1461	.0077	.0047	-.0027	2.375	.0003	.0001		
#2	.1463	.0076	.0029	-.0028	2.369	.0000	-.0001		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	66168.	9623.0	2276.2	3446.1					
Stddev	374.	21.4	6.0	.9					
%RSD	.56498	.22283	.26232	.02566					
#1	65904.	9638.1	2272.0	3445.4					
#2	66432.	9607.8	2280.5	3446.7					

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◀ Zoom In ▶
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Sample Name: jb70345-19f Acquired: 7/1/2014 13:46:28 Type: Unk
Method: Accutest1(v35) 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	.0587	.0001	.0001	.0045	.0013	.0025	.1934	.0055	.0004
Stddev	.0001	.0001	.0001	.0002	.0001	.0005	.0005	.0002	.0000
%RSD	.1650	124.5	95.78	3.757	5.630	18.67	2.427	3.011	7.903
#1	.0566	.0001	.0001	.0044	.0013	.0028	.1938	.0056	.0004
#2	.0568	.0000	.0000	.0046	.0012	.0021	.1931	.0054	.0004
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0016	.0043	.0010	-.0006	.0009	.0019	.0021	.2015	30.85
Stddev	.0002	.0000	.0002	.0006	.0007	.0001	.0012	.0041	.03
%RSD	11.88	.2818	24.54	96.88	79.29	5.088	59.15	2.010	.1058
#1	.0015	.0043	.0008	-.0010	.0004	.0018	.0030	.1986	30.83
#2	.0018	.0043	.0011	-.0002	.0014	.0020	.0012	.2043	30.87
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	3.089	3.709	3.512	37.27	.0299	.0106	.0050	5.032	-.0008
Stddev	.013	.023	.004	.07	.0003	.0003	.0004	.011	.0005
%RSD	.4066	.6141	.1191	.1968	.8856	3.270	8.299	.2110	65.04
#1	3.090	3.692	3.515	37.32	.0297	.0104	.0053	5.039	-.0012
#2	3.108	3.725	3.509	37.22	.0301	.0109	.0047	5.024	-.0004
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.1875	.0049	.0026	-.0035	2.765	-.0002	-.0010		
Stddev	.0003	.0001	.0004	.0001	.009	.0009	.0004		
%RSD	.1630	2.347	13.44	1.686	.3119	518.6	37.05		
#1	.1873	.0049	.0024	-.0035	2.771	-.0008	-.0012		
#2	.1877	.0050	.0029	-.0034	2.759	.0005	-.0007		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	65809.	9611.5	2255.2	3398.6					
Stddev	129.	9.6	3.9	11.6					
%RSD	.19541	.10031	.17225	.34195					
#1	65900.	9604.7	2252.5	3390.4					
#2	65718.	9618.3	2258.0	3406.9					

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◀ Zoom In ▶
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Sample Name:alconf Acquired: 7/1/2014 13:52:28 Type: Unk
Method: Accutest1(v35) 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	-.0010	.0000	.0006	.0001	.0013	-.0031	-.0001	.0005	.0009
Stddev	.0001	.0001	.0000	.0001	.0003	.0002	.0000	.0001	.0000
%RSD	11.04	311.3	4.384	38.22	24.23	6.084	28.51	14.85	1.342
#1	-.0011	-.0000	.0006	.0002	.0015	-.0033	-.0001	.0005	.0009
#2	-.0009	.0001	.0006	.0001	.0011	-.0030	-.0001	.0006	.0009
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	-.0003	.0026	.0022	-.0001	.0009	-.0007	.0013	485.4	.0072
Stddev	.0000	.0001	.0007	.0005	.0009	.0040	.0015	1.8	.0004
%RSD	14.87	3.962	32.28	536.8	107.4	575.4	116.9	.3767	5.810
#1	-.0004	.0027	.0027	-.0005	.0002	-.0035	.0024	484.1	.0075
#2	-.0003	.0025	.0017	.0003	.0015	.0021	.0002	486.7	.0069
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0028	.0020	-.0280	.0439	.0003	-.0001	-.0013	.0246	.0000
Stddev	.0021	.0275	.0074	.0041	.0005	.0004	.0004	.0009	.0001
%RSD	76.24	1390.	26.57	9.289	135.1	610.7	28.04	3.459	125.6
#1	.0043	-.0175	-.0228	.0410	.0000	-.0003	-.0015	.0252	.0000
#2	.0013	.0215	-.0333	.0468	.0007	-.0002	-.0010	.0240	.0001
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	-.0000	.0000	-.0051	-.0000	-.0189	-.0012	-.0004		
Stddev	.0000	.0001	.0013	.0000	.0013	.0010	.0007		
%RSD	8570.	234.6	25.27	100.2	6.786	81.08	166.6		
#1	.0000	.0001	-.0042	-.0000	-.0198	-.0005	-.0009		
#2	-.0000	-.0000	-.0060	-.0000	-.0180	-.0019	.0001		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	62998.	9756.2	2304.3	3193.1					
Stddev	45.	36.1	15.5	12.1					
%RSD	.07221	.37037	.67068	.38031					
#1	62966.	9781.7	2293.4	3184.5					
#2	63031.	9730.6	2315.2	3201.7					

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Sample Name: cacnf Acquired: 7/1/2014 13:58:28 Type: Unk									
Method: Accutest1(v35) 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	.0001	.0001	.0005	-.0002	.0003	.0003	-.0003	.0031
Stddev	.0001	.0000	.0002	.0000	.0002	.0000	.0000	.0003	.0000
%RSD	40.99	3.908	274.1	3.128	83.28	.1458	6.726	93.80	1.457
#1	.0002	.0002	-.0001	.0004	-.0003	.0003	.0002	-.0005	.0031
#2	.0004	.0001	.0002	.0005	-.0001	.0003	.0003	-.0001	.0031
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	-.0001	.0033	.0014	-.0002	.0008	.0006	.0010	.0751	396.3
Stddev	.0002	.0000	.0006	.0007	.0014	.0011	.0003	.0122	4.4
%RSD	136.5	1.060	40.75	295.5	186.3	203.6	31.61	16.24	1.110
#1	-.0003	.0033	.0010	.0003	-.0002	-.0002	.0008	.0837	393.1
#2	-.0000	.0033	.0018	-.0007	.0018	.0014	.0012	.0665	399.4
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	-.0079	.0051	.0311	.0344	.0003	-.0001	-.0085	.0036	-.0017
Stddev	.0012	.0136	.0384	.0012	.0009	.0002	.0007	.0003	.0004
%RSD	15.74	265.4	123.4	3.427	323.1	315.8	8.167	7.005	22.41
#1	-.0070	.0148	.0582	.0353	.0009	.0001	-.0080	.0038	-.0014
#2	-.0087	-.0045	.0040	.0336	-.0004	-.0002	-.0089	.0034	-.0020
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	-.0055	.0013	-.0574	-.0003	.0027	.0045	.0022		
Stddev	.0002	.0002	.0015	.0000	.0046	.0003	.0003		
%RSD	3.243	12.26	2.565	3.098	172.6	7.762	14.94		
#1	-.0054	.0012	-.0563	-.0003	.0060	.0043	.0025		
#2	-.0056	.0014	-.0584	-.0003	-.0006	.0048	.0020		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	62122.	9332.8	2100.5	2978.4					
Stddev	266.	35.9	2.1	4.3					
%RSD	.42835	.38451	.10163	.14552					
#1	62310.	9358.1	2098.9	2975.3					
#2	61934.	9307.4	2102.0	2981.4					

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Sample Name: sconf Acquired: 7/1/2014 14:04:36 Type: Unk									
Method: Accutest1(v35) 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	-.0000	.0003	.0001	-.0000	.0004	.0001
Stddev	.0001	.0001	.0001	.0001	.0004	.0004	.0004	.0002	.0000
%RSD	30.74	1007.	100.5	162.4	163.3	295.5	90.86	58.36	3.652
#1	.0004	-.0001	-.0001	.0000	-.0000	-.0001	-.0000	.0002	.0001
#2	.0003	.0001	-.0000	-.0001	.0005	.0004	-.0000	.0005	.0001
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0005	.0024	-.0008	-.0011	.0025	.0003	.0004	-.0005	.0142
Stddev	.0004	.0001	.0004	.0005	.0005	.0004	.0001	.0120	.0024
%RSD	93.33	3.509	42.37	50.77	19.66	150.0	15.01	2257.	17.12
#1	.0002	.0024	-.0006	-.0007	.0021	-.0000	.0004	-.0090	.0159
#2	.0007	.0025	-.0011	-.0015	.0028	.0005	.0003	.0079	.0125
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0027	-.0260	.0272	.0419	.0004	-.0001	.0152	-.0011	.0001
Stddev	.0000	.0238	.0075	.0016	.0002	.0001	.0005	.0011	.0001
%RSD	.1654	91.41	27.71	3.742	49.79	142.9	3.085	100.5	134.8
#1	.0027	-.0092	.0325	.0431	.0002	-.0001	.0155	-.0003	.0000
#2	.0027	-.0428	.0218	.0408	.0005	.0000	.0149	-.0019	.0002
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	-.0000	.0002	-.0030	-.0031	88.14	-.0003	.0008		
Stddev	.0001	.0001	.0004	.0001	.40	.0004	.0004		
%RSD	590.1	31.57	12.30	2.751	.4573	156.0	49.36		
#1	-.0001	.0003	-.0027	-.0032	88.43	.0000	.0010		
#2	.0000	.0002	-.0032	-.0031	87.86	-.0006	.0005		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	67775.	9616.0	2342.5	3646.4					
Stddev	30.	102.6	6.8	5.7					
%RSD	.04398	1.0669	.29100	.15613					
#1	67796.	9543.4	2337.6	3642.3					
#2	67754.	9688.5	2347.3	3650.4					

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Sample Name: ccv Acquired: 7/1/2014 14:10:41 Type: QC									
Method: Accutest1(v35) 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	1.956	1.986	1.981	2.019	2.014	1.921	2.014	2.029	.2423
Stddev	.001	.009	.005	.001	.008	.006	.002	.002	.0018
%RSD	.0354	.4755	.2348	.0412	.3936	.3336	.0722	.0958	.7408
#1	1.956	1.979	1.984	2.019	2.008	1.926	2.013	2.031	.2436
#2	1.957	1.992	1.978	2.018	2.019	1.917	2.015	2.028	.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	1.994	1.997	1.958	2.093	2.048	1.970	1.990	39.49	39.82
Stddev	.002	.005	.005	.002	.002	.001	.002	.03	.14
%RSD	.0848	.2737	.2538	.1069	.1185	.0556	.0837	.0719	.3414
#1	1.993	2.001	1.962	2.095	2.049	1.969	1.991	39.47	39.73
#2	1.995	1.993	1.955	2.092	2.046	1.971	1.989	39.51	39.92
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	39.86	39.12	38.92	39.33	1.977	2.017	1.984	4.992	2.044
Stddev	.20	.06	.02	.08	.001	.005	.009	.008	.006
%RSD	.4902	.1503	.0556	.1961	.0240	.2411	.4490	.1626	.2962
#1	39.72	39.07	38.90	39.27	1.977	2.020	1.990	4.998	2.048
#2	39.99	39.16	38.93	39.38	1.976	2.013	1.977	4.986	2.040
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: 7/1/2014 14:10:41 Type: QC									
Method: Accutest1(v35) 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	1.975	1.976	1.874	2.002	1.946	2.013	1.945		
Stddev	.003	.001	.003	.002	.006	.001	.004		
%RSD	.1670	.0378	.1428	.0863	.3280	.0711	.2208		
#1	1.972	1.976	1.872	2.001	1.950	2.012	1.942		
#2	1.977	1.975	1.876	2.003	1.941	2.014	1.948		
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	64791.	9493.7	2225.6	3182.7					
Stddev	175.	3.9	6.5	2.3					
%RSD	.26949	.04065	.24886	.07343					
#1	64914.	9496.4	2221.7	3181.0					
#2	64667.	9490.9	2229.5	3184.3					

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Sample Name: ccb Acquired: 7/1/2014 14:16:30 Type: QC
Method: Accutest1(v35) 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	.0000	.0001	.0001	-.0004	.0000	.0003	-.0001
Stddev	.0002	.0001	.0001	.0000	.0002	.0000	.0000	.0000	.0002
%RSD	182.1	73.54	419.2	13.48	143.9	6.116	89.30	4.406	137.5
#1	-.0000	.0001	-.0000	.0001	.0003	-.0004	.0000	.0003	-.0000
#2	.0002	.0002	.0001	.0001	-.0000	-.0004	.0000	.0003	-.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	-.0003	-.0001	.0001	.0007	-.0003	.0005	-.0002	-.0069	-.0037
Stddev	.0003	.0000	.0011	.0004	.0004	.0004	.0002	.0054	.0007
%RSD	94.36	23.80	939.7	58.56	136.1	80.73	119.6	77.96	17.56
#1	-.0001	-.0001	.0009	.0004	-.0000	.0008	-.0003	-.0107	-.0042
#2	-.0005	-.0002	-.0007	.0010	-.0005	.0002	-.0000	-.0031	-.0033

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	.0005	-.0145	.0325	.0253	.0008	.0013	-.0001	-.0018	.0009
Stddev	.0031	.0080	.0278	.0010	.0004	.0001	.0003	.0009	.0002
%RSD	618.9	55.23	85.46	4.103	53.77	6.921	497.7	48.80	24.95
#1	.0027	-.0202	.0521	.0246	.0005	.0014	-.0003	-.0024	.0008
#2	-.0017	-.0089	.0129	.0260	.0011	.0012	.0002	-.0012	.0011

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: 7/1/2014 14:16:30 Type: QC
Method: Accutest1(v35) 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	.0057	.0006	.0033	.0018	-.0005
Stddev	.0000	.0002	.0014	.0001	.0007	.0002	.0007
%RSD	8.159	36.69	25.13	14.97	22.59	8.311	142.7
#1	.0001	.0004	.0067	.0007	.0038	.0017	.0000
#2	.0001	.0007	.0047	.0006	.0027	.0019	-.0011

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	67954.	9750.0	2340.6	3599.2
Stddev	136.	42.1	3.8	6.6
%RSD	.19982	.43182	.16433	.18280
#1	67858.	9779.7	2343.3	3603.8
#2	68050.	9720.2	2337.9	3594.5

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Sample Name: siconf Acquired: 7/1/2014 14:22:36 Type: Unk
Method: Accutest1(v35) 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	.0004	.0000	-.0000	-.0000	-.0002	-.0007	-.0001	.0003	.0001
Stddev	.0001	.0001	.0001	.0001	.0002	.0007	.0000	.0003	.0002
%RSD	13.01	626.5	548.3	281.3	148.6	93.50	19.23	122.6	260.3
#1	.0005	.0001	.0000	.0000	.0000	-.0012	-.0001	.0000	-.0001
#2	.0004	-.0001	-.0001	-.0001	-.0003	-.0002	-.0001	.0005	.0002

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	-.0001	.0000	.0009	-.0007	-.0003	.0022	-.0001	-.0007	.0029
Stddev	.0003	.0001	.0001	.0011	.0000	.0001	.0015	.0097	.0039
%RSD	485.6	650.1	9.979	172.5	8.861	3.338	2611.	1478.	133.3
#1	.0002	-.0000	.0008	-.0015	-.0002	.0022	-.0011	-.0075	.0057
#2	-.0003	.0000	.0010	.0001	-.0003	.0023	.0010	.0062	.0002

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0062	.0094	.0159	.0196	.0011	.0004	.0018	2.019	-.0001
Stddev	.0032	.0100	.0173	.0009	.0000	.0001	.0012	.001	.0003
%RSD	51.08	105.6	108.3	4.450	4.138	26.91	65.79	.0653	240.8
#1	.0040	.0165	.0037	.0202	.0011	.0003	.0010	2.020	-.0003
#2	.0084	.0024	.0281	.0190	.0011	.0005	.0027	2.018	.0001

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Avg	-.0001	-.0001	.0045	.0115	.0050	.0029	-.0001
Stddev	.0001	.0002	.0013	.0011	.0006	.0006	.0002
%RSD	63.05	187.8	28.98	9.968	12.53	20.96	229.2
#1	-.0001	-.0003	.0054	.0123	.0045	.0033	.0001
#2	-.0002	.0000	.0036	.0107	.0054	.0025	-.0002

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	67763.	9643.7	2351.8	3614.0
Stddev	305.	8.4	4	2.8
%RSD	.44952	.08693	.01612	.07695
#1	67548.	9649.6	2351.5	3612.0
#2	67979.	9637.8	2352.1	3615.9

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Sample Name: mp80322-mb1conf Acquired: 7/1/2014 14:28:40 Type: Unk
Method: Accutest1(v35) 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	.0009	-.0000	-.0002	.0001	.0005	.0008	.0003	.0010	.0001
Stddev	.0001	.0001	.0000	.0000	.0000	.0001	.0001	.0006	.0002
%RSD	6.030	244.9	17.95	2.034	10.47	8.246	20.53	64.58	272.3
#1	.0010	.0000	-.0002	.0001	.0004	.0007	.0003	.0005	-.0001
#2	.0009	-.0001	-.0002	.0001	.0005	.0008	.0004	.0014	.0003

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0000	.0043	.0004	-.0001	.0008	.0006	.0002	.0010	.1050
Stddev	.0001	.0001	.0012	.0000	.0001	.0002	.0001	.0010	.0000
%RSD	1112.	2.610	273.7	2.794	11.17	29.60	50.71	106.2	.0117
#1	-.0001	.0042	.0013	-.0001	.0009	.0004	.0001	.0002	.1050
#2	.0001	.0044	-.0004	-.0001	.0008	.0007	.0003	.0017	.1050

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0280	.0259	.0303	.0531	.0053	.0005	-.0006	.0143	.0317
Stddev	.0030	.0012	.0077	.0036	.0004	.0002	.0013	.0010	.0003
%RSD	11.70	4.611	25.24	6.826	6.643	53.38	235.4	6.670	.8631
#1	.0282	.0251	.0357	.0556	.0055	.0006	-.0015	.0149	.0319
#2	.0239	.0268	.0249	.0505	.0050	.0003	.0004	.0136	.0315

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Avg	.0002	.0006	-.0008	.0002	.0093	.0002	-.0013
Stddev	.0000	.0001	.0010	.0000	.0001	.0013	.0006
%RSD	20.97	13.52	122.3	4.669	.5781	566.7	44.97
#1	.0002	.0006	-.0015	.0002	.0093	-.0007	-.0017
#2	.0002	.0007	-.0001	.0002	.0094	.0012	-.0009

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	68424.	9867.8	2345.9	3647.8
Stddev	128.	100.8	.1	.5
%RSD	.18654	1.0217	.00631	.01361
#1	68514.	9939.1	2345.8	3647.3
#2	68334.	9796.5	2346.0	3648.0

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◀ Zoom In ▶
Zoom Out

Sample Name: jb70284-2 Acquired: 7/1/2014 14:34:45 Type: Unk
Method: Accutest1(v35) 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	.1361	.0020	.0009	.0300	.1055	.0728	2.526	.0838	.0109
Stddev	.0001	.0001	.0009	.0011	.0008	.0001	.001	.0009	.0004
%RSD	.0520	4.571	94.59	3.599	.7971	.1280	.0391	1.089	3.381
#1	.1361	.0020	.0015	.0308	.1049	.0728	2.525	.0831	.0106
#2	.1362	.0021	.0003	.0293	.1061	.0727	2.526	.0844	.0112
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.1031	.2432	.0447	-.0048	.0394	.0087	.0012	26.03	1486.
Stddev	.0003	.0007	.0048	.0034	.0055	.0025	.0026	.18	6.
%RSD	.2427	.2787	10.77	72.02	13.82	28.82	212.0	.6764	.3943
#1	.1032	.2437	.0481	-.0072	.0356	.0104	-.0006	26.16	1490.
#2	.1029	.2427	.0413	-.0023	.0433	.0069	.0030	25.91	1482.
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	77.74	627.0	6.201	1.980	.1325	.0240	-.0360	5.416	.0096
Stddev	.10	.3	.095	.044	.0007	.0011	.0088	.005	.0057
%RSD	.1289	.0482	1.524	2.206	.5082	4.680	24.35	.0858	59.22
#1	77.81	627.2	6.267	2.011	.1330	.0248	-.0298	5.413	.0056
#2	77.67	626.8	6.134	1.949	.1321	.0232	-.0422	5.419	.0136
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.8804	1.138	-.1843	.0231	2.251	.0351	.0556		
Stddev	.0016	.005	.0001	.0001	.019	.0031	.0000		
%RSD	.1868	.4852	.0711	.3806	.8301	8.802	.0650		
#1	.8816	1.142	-.1843	.0231	2.265	.0373	.0556		
#2	.8792	1.134	-.1844	.0230	2.238	.0329	.0556		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	62140.	9375.5	2101.9	2926.0					
Stddev	156.	21.6	.6	.1					
%RSD	.25025	.23034	.02918	.00370					
#1	62250.	9360.2	2101.4	2926.0					
#2	62030.	9390.8	2102.3	2926.1					

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◀ Zoom In ▶
Zoom Out

Sample Name: jb70284-3 Acquired: 7/1/2014 14:40:44 Type: Unk
Method: Accutest1(v35) 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	.1535	.0025	.0024	.0383	.0521	.0881	2.978	.0987	.0131
Stddev	.0011	.0006	.0006	.0002	.0013	.0015	.006	.0013	.0044
%RSD	.7044	22.08	23.73	.6499	2.525	1.692	.2022	1.328	33.87
#1	.1527	.0029	.0029	.0385	.0530	.0870	2.982	.0996	.0099
#2	.1543	.0021	.0020	.0381	.0512	.0891	2.973	.0977	.0162
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.1002	.2231	.0787	-.0096	.0346	.0155	.0018	23.57	1907.
Stddev	.0019	.0020	.0062	.0006	.0042	.0041	.0012	.14	13.
%RSD	1.868	.9031	7.911	6.595	12.01	26.13	63.88	.5975	.6859
#1	.1016	.2245	.0743	-.0092	.0316	.0184	.0010	23.67	1916.
#2	.0989	.2216	.0831	-.0101	.0375	.0127	.0026	23.47	1898.
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	70.78	971.6	7.162	2.397	.1978	.0246	-.0312	12.39	.0280
Stddev	.26	2.3	.007	.008	.0018	.0027	.0037	.03	.0015
%RSD	.3650	.2393	.0990	.3353	.9321	11.08	11.72	.2739	5.374
#1	70.96	973.3	7.167	2.402	.1991	.0265	-.0338	12.36	.0291
#2	70.59	970.0	7.157	2.391	.1965	.0226	-.0286	12.41	.0270
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.9187	.7315	-.2284	.0243	2.498	.0458	.0793		
Stddev	.0046	.0055	.0009	.0001	.011	.0090	.0050		
%RSD	.4974	.7461	.3846	.4643	4.299	19.70	6.340		
#1	.9219	.7354	-.2291	.0244	2.506	.0521	.0758		
#2	.9154	.7277	-.2278	.0243	2.491	.0394	.0829		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	60479.	9249.1	2035.7	2815.0					
Stddev	7.	4.5	6.4	12.7					
%RSD	.01110	.04896	.31225	.45280					
#1	60474.	9245.9	2031.2	2806.0					
#2	60484.	9252.3	2040.1	2824.0					

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Sample Name: mp80360-mb1conf Acquired: 7/1/2014 14:46:49 Type: Unk
Method: Accutest1(v35) 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	.0000	.0004	.0002
Stddev	.0000	.0000	.0001	.0000	.0002	.0001	.0000	.0003	.0003
%RSD	5.558	69.49	127.5	18.06	133.8	152.3	86.51	93.80	121.4
#1	.0002	.0001	.0001	.0002	.0003	.0000	.0000	.0001	.0000
#2	.0002	.0000	.0000	.0001	.0000	-.0001	.0001	.0006	.0004
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	-.0005	.0034	-.0000	-.0008	.0005	.0013	.0006	-.0037	.0214
Stddev	.0000	.0001	.0004	.0012	.0005	.0014	.0007	.0036	.0022
%RSD	9.678	2.017	3468.	154.5	97.35	104.4	119.3	96.46	10.06
#1	-.0005	.0035	.0002	-.0016	.0008	.0023	.0011	-.0012	.0199
#2	-.0004	.0034	-.0003	.0001	.0002	.0003	.0001	-.0062	.0230
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0061	.0221	.0260	.0159	.0004	.0001	-.0011	.0057	.0003
Stddev	.0020	.0103	.0228	.0032	.0001	.0000	.0001	.0001	.0002
%RSD	32.39	46.62	87.89	19.92	38.48	30.00	10.66	2.093	55.34
#1	.0075	.0294	.0421	.0137	.0003	.0001	-.0010	.0058	.0004
#2	.0047	.0148	.0098	.0182	.0005	.0001	-.0011	.0056	.0002
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	-.0000	.0000	-.0001	.0002	.0053	-.0005	-.0008		
Stddev	.0000	.0002	.0005	.0000	.0006	.0001	.0006		
%RSD	50.19	360.1	496.4	1.678	11.02	17.29	80.64		
#1	-.0000	.0002	.0003	.0002	.0057	-.0005	-.0012		
#2	-.0000	-.0001	-.0005	.0002	.0049	-.0004	-.0003		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	67732.	9748.4	2333.7	3611.5					
Stddev	10.	60.7	.4	.6					
%RSD	.01475	.62295	.01770	.01665					
#1	67725.	9791.3	2333.4	3611.0					
#2	67739.	9705.5	2334.0	3611.9					

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◀ Zoom In ▶
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Sample Name: mp80360-s2 Acquired: 7/1/2014 14:52:52 Type: Unk
Method: Accutest1(v35) 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	1.971	.0509	.0548	.5650	.2059	.2547	3.141	.6663	.0505
Stddev	.035	.0010	.0007	.0049	.0001	.0005	.011	.0058	.0004
%RSD	1.782	1.989	1.314	.8604	.0577	.1854	.3503	.8633	.8652
#1	1.946	.0502	.0553	.5685	.2060	.2544	3.149	.6704	.0508
#2	1.996	.0517	.0543	.5616	.2058	.2550	3.133	.6622	.0502
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.5075	1.103	2.127	2.227	.5301	2.147	.5238	2.029	60.45
Stddev	.0014	.009	.026	.025	.0054	.028	.0065	.039	1.06
%RSD	.2749	.8124	1.224	1.111	1.026	1.291	1.247	1.896	1.752
#1	.5084	1.110	2.145	2.244	.5340	2.166	.5284	2.002	59.70
#2	.5065	1.097	2.108	2.209	.5263	2.127	.5192	2.056	61.20
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	18.70	33.13	28.02	28.86	.1732	.0004	.0158	15.34	-.0031
Stddev	.36	.50	.46	.57	.0025	.0002	.0007	.19	.0002
%RSD	1.948	1.498	1.635	1.990	1.419	47.14	4.584	1.225	5.560
#1	18.44	32.78	27.69	28.46	.1749	.0002	.0163	15.47	-.0030
#2	18.95	33.48	28.34	29.27	.1715	.0005	.0153	15.21	-.0033
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.4672	.0023	.0333	-.0120	34.27	.0031	.0267		
Stddev	.0086	.0001	.0020	.0001	.41	.0007	.0005		
%RSD	1.844	3.504	6.000	1.111	1.183	22.33	2.030		
#1	.4611	.0022	.0347	-.0121	34.56	.0036	.0263		
#2	.4733	.0024	.0319	-.0119	33.99	.0026	.0271		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	65143.	9796.5	2215.5	3209.8					
Stddev	195.	139.7	23.3	25.8					
%RSD	.29901	1.4258	1.0537	.80489					
#1	65006.	9895.3	2199.0	3191.3					
#2	65281.	9697.8	2232.0	3227.8					

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Sample Name: jb70255-1 Acquired: 7/1/2014 14:58:43 Type: Unk
Method: Accutest1(v35) 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	.0445	.0008	.0018	.0508	.0009	.0071	2.634	.1466	.0008
Stddev	.0001	.0000	.0002	.0000	.0002	.0002	.006	.0000	.0001
%RSD	.2947	1.460	11.18	.0002	27.62	2.132	.2190	.0046	13.16
#1	.0446	.0008	.0019	.0508	.0007	.0070	2.639	.1466	.0009
#2	.0444	.0008	.0016	.0508	.0010	.0072	2.630	.1466	.0007
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0018	.5998	.0027	.0015	.0025	.0068	.0012	.0798	36.72
Stddev	.0002	.0018	.0004	.0001	.0012	.0001	.0002	.0074	.17
%RSD	12.59	.2989	15.51	3.532	49.09	1.501	12.13	9.335	.4758
#1	.0020	.6011	.0030	.0015	.0016	.0068	.0011	.0851	36.60
#2	.0017	.5985	.0024	.0015	.0034	.0069	.0014	.0745	36.85
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	17.91	8.809	3.727	4.023	1.687	.0002	.0167	15.13	.0030
Stddev	.05	.088	.020	.008	.0001	.0000	.0001	.00	.0003
%RSD	.2634	.9998	.5416	.2072	.0750	19.36	.7946	.0105	9.485
#1	17.87	8.747	3.713	4.029	.1686	.0001	.0166	15.13	.0028
#2	17.94	8.872	3.742	4.017	.1688	.0002	.0168	15.13	.0032
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.4733	.0005	.0124	.0140	33.10	.0003	.0270		
Stddev	.0011	.0001	.0007	.0004	.02	.0005	.0010		
%RSD	.2239	19.62	5.608	2.867	.0578	157.5	3.617		
#1	.4725	.0004	.0119	.0137	33.11	.0000	.0263		
#2	.4740	.0005	.0129	.0143	33.09	.0007	.0277		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	66830.	9722.8	2284.3	3459.9					
Stddev	360.	32.8	.6	3.3					
%RSD	.53911	.33764	.02543	.09598					
#1	66576.	9746.0	2283.9	3457.5					
#2	67085.	9699.6	2284.7	3462.2					

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Sample Name: mp80360-sd1 Acquired: 7/1/2014 15:04:41 Type: Unk
Method: Accutest1(v35) 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	.0004	.0015	.0018	.0006	.0006	.0191	.0002	.0032	.0022
Stddev	.0002	.0000	.0001	.0000	.0005	.0008	.0000	.0003	.0014
%RSD	37.17	1.607	6.157	2.640	83.77	4.077	7.784	10.04	64.05
#1	.0006	.0015	.0017	.0006	.0002	.0197	.0002	.0035	.0032
#2	.0003	.0015	.0018	.0006	.0009	.0186	.0002	.0030	.0012
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0007	.0001	.0071	.0067	.0050	.0118	.0026	.0366	.0314
Stddev	.0006	.0001	.0005	.0002	.0012	.0051	.0046	.0184	.0083
%RSD	83.69	121.5	7.370	2.797	24.13	43.32	176.1	50.30	26.40
#1	.0003	.0000	.0074	.0069	.0042	.0154	.0058	.0236	.0255
#2	.0012	.0001	.0067	.0066	.0059	.0082	.0006	.0496	.0372
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0189	.0112	.1147	.0955	.0025	.0026	.0001	.0670	.0021
Stddev	.0135	.0115	.0652	.0098	.0010	.0000	.0005	.0023	.0010
%RSD	71.31	102.9	56.86	10.27	41.58	.9226	753.6	3.416	46.61
#1	.0285	.0194	.0686	.1024	.0032	.0026	.0004	.0653	.0029
#2	.0094	.0031	.1609	.0885	.0017	.0026	.0003	.0686	.0014
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0003	.0009	.0362	.0008	.0016	.0099	.0062		
Stddev	.0001	.0007	.0014	.0002	.0040	.0009	.0024		
%RSD	20.30	74.94	3.729	24.36	245.6	9.197	37.99		
#1	.0002	.0004	.0353	.0007	.0012	.0093	.0046		
#2	.0003	.0014	.0372	.0010	.0045	.0106	.0079		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	153660.	15357.	5721.1	8002.5					
Stddev	1286.	94.	52.5	68.6					
%RSD	.83701	.61245	.91690	.85684					
#1	152760.	15290.	5758.2	8051.0					
#2	154570.	15423.	5684.0	7954.0					

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Sample Name: mp80360-s3 Acquired: 7/1/2014 15:11:11 Type: Unk
Method: Accutest1(v35) 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	2.021	.0523	.0547	.5663	.2079	.2501	3.416	.6761	.0509
Stddev	.002	.0001	.0002	.0004	.0003	.0001	.005	.0001	.0000
%RSD	.1194	.2116	.3925	.0647	.1533	.0240	.1425	.0126	.0422
#1	2.019	.0524	.0546	.5665	.2081	.2500	3.413	.6762	.0509
#2	2.023	.0522	.0549	.5660	.2076	.2501	3.420	.6760	.0509
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.5084	1.185	2.135	2.237	.5316	2.157	.5284	2.065	65.13
Stddev	.0001	.000	.002	.003	.0001	.005	.0001	.021	.07
%RSD	.0207	.0013	.0906	.1450	.0195	.2332	.0237	1.035	.1090
#1	.5083	1.185	2.134	2.235	.5315	2.153	.5284	2.050	65.18
#2	.5084	1.185	2.136	2.239	.5316	2.160	.5285	2.080	65.08
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	21.04	34.55	28.84	30.08	1.869	.0003	.0172	16.14	.0033
Stddev	.03	.04	.00	.07	.0003	.0002	.0004	.01	.0003
%RSD	.1534	.1159	.0013	.2414	.1622	51.83	2.091	.0340	7.710
#1	21.07	34.53	28.84	30.13	.1867	.0002	.0169	16.14	.0031
#2	21.02	34.58	28.84	30.03	.1872	.0004	.0174	16.14	.0035
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.5099	.0015	.0328	.0135	36.43	.0016	.0273		
Stddev	.0001	.0003	.0014	.0001	.05	.0005	.0003		
%RSD	.0247	22.26	4.393	.6202	.1300	29.97	1.066		
#1	.5100	.0013	.0338	.0136	36.40	.0013	.0270		
#2	.5098	.0018	.0318	.0134	36.46	.0019	.0275		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	64652.	9627.9	2198.7	3182.8					
Stddev	60.	34.6	2.0	4.3					
%RSD	.09213	.35966	.09169	.13491					
#1	64610.	9652.4	2197.3	3179.7					
#2	64694.	9603.4	2200.1	3185.8					

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◀ Zoom In ▶
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Sample Name: ccv Acquired: 7/1/2014 15:17:04 Type: QC
Method: Accutest1(v35) 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	1.963	1.996	1.993	2.033	2.026	1.935	2.018	2.044	.2435
Stddev	.001	.003	.006	.003	.004	.002	.002	.002	.0001
%RSD	.0374	.1663	.3059	.1680	.1809	.1023	.1196	.1076	.0388
#1	1.962	1.994	1.989	2.031	2.028	1.936	2.019	2.042	.2436
#2	1.963	1.999	1.997	2.035	2.023	1.933	2.016	2.046	.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	2.002	2.007	1.967	2.107	2.060	1.978	2.002	39.70	39.99
Stddev	.002	.003	.007	.002	.005	.005	.004	.16	.03
%RSD	.0794	.1449	.3442	.0734	.2449	.2617	.2078	.3986	.0717
#1	2.003	2.005	1.962	2.106	2.056	1.975	1.999	39.81	39.97
#2	2.001	2.009	1.972	2.108	2.063	1.982	2.005	39.59	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	40.02	39.34	39.02	39.50	1.993	2.033	1.993	5.024	2.059
Stddev	.11	.04	.07	.06	.005	.004	.003	.003	.006
%RSD	.2811	.1042	.1756	.1603	.2545	.2024	.1570	.0679	.2807
#1	39.94	39.31	39.07	39.55	1.989	2.030	1.995	5.022	2.055
#2	40.10	39.37	38.97	39.46	1.996	2.036	1.991	5.027	2.063
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: 7/1/2014 15:17:04 Type: QC
Method: Accutest1(v35) 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	1.982	1.909	2.008	1.956	2.031	1.954
Stddev	.002	.002	.008	.001	.006	.003	.001
%RSD	.0917	.1057	.4091	.0564	.3294	.1613	.0563
#1	1.980	1.983	1.903	2.007	1.952	2.029	1.955
#2	1.982	1.980	1.915	2.009	1.961	2.034	1.953

Check ?
Value
Range

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	64674.	9474.5	2215.5	3162.1
Stddev	69.	24.0	2.6	1.1
%RSD	.10689	.25375	.11631	.03593
#1	64625.	9457.5	2217.4	3162.9
#2	64723.	9491.5	2213.7	3161.3

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Sample Name: ccb Acquired: 7/1/2014 15:22:53 Type: QC
Method: Accutest1(v35) 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	-0.002	-0.001	-0.000	-0.002	-0.001	-0.003	-0.001	-0.001	-0.002
Stddev	.0002	.0001	.0000	.0002	.0002	.0003	.0001	.0002	.0001
%RSD	104.2	55.79	170.5	109.3	466.6	88.33	61.48	119.2	28.61
#1	.0004	.0001	.0000	.0004	.0002	-.0005	.0001	.0002	.0002
#2	.0001	.0001	-.0001	.0000	-.0001	-.0001	.0000	.0000	.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	-0.002	-0.001	.0008	.0013	-0.002	.0005	-0.005	-0.008	-0.0034
Stddev	.0003	.0000	.0003	.0001	.0001	.0008	.0010	.0025	.0014
%RSD	187.2	79.27	35.72	7.280	78.49	149.1	218.3	28.49	40.72
#1	.0001	-.0000	.0010	.0013	-.0003	-.0000	-.0012	-.0107	-.0024
#2	-.0004	-.0001	.0006	.0012	-.0001	.0011	.0003	-.0071	-.0044

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	.0045	.0101	.0194	.0083	.0010	.0017	-.0013	-0.002	.0002
Stddev	.0001	.0014	.0049	.0016	.0003	.0003	.0005	.0004	.0001
%RSD	1.674	13.87	25.18	18.84	26.91	20.81	40.30	182.9	81.96
#1	.0046	.0091	.0228	.0094	.0008	.0019	-.0016	.0001	.0001
#2	.0044	.0111	.0159	.0072	.0012	.0014	-.0009	-.0005	.0002

Check ?
High Limit
Low Limit

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Sample Name: ccb Acquired: 7/1/2014 15:22:53 Type: QC
Method: Accutest1(v35) 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	-0.0000	.0006	.0108	.0007	.0024	.0015	-0.0011
Stddev	.0001	.0001	.0015	.0000	.0022	.0006	.0005
%RSD	446.6	11.55	13.66	5.190	93.61	39.72	46.24
#1	.0000	.0007	.0119	.0007	.0039	.0011	-.0007
#2	-.0001	.0006	.0098	.0008	.0008	.0019	-.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	67702.	9578.2	2322.7	3579.8
Stddev	191.	23.6	7.6	8.5
%RSD	.28252	.24634	.32684	.23787
#1	67837.	9594.9	2328.0	3585.8
#2	67567.	9561.5	2317.3	3573.8

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Sample Name: mp80360-s4 Acquired: 7/1/2014 15:28:59 Type: Unk
Method: Accutest1(v35) 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	.0522	.0546	.5632	.2045	.2470	3.377	.6735	.0503
Stddev	.011	.0004	.0002	.0030	.0003	.0007	.004	.0044	.0000
%RSD	.5586	.7911	.3182	.5338	.1540	.2834	.1170	.6484	.0063
#1	2.027	.0525	.0545	.5610	.2047	.2465	3.380	.6704	.0503
#2	2.011	.0519	.0548	.5653	.2043	.2475	3.374	.6766	.0503

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5042	1.176	2.127	2.226	.5280	2.155	.5284	2.070	65.03
Stddev	.0002	.009	.007	.008	.0024	.006	.0010	.012	.45
%RSD	.0482	.7822	.3277	.3696	.4571	.2947	.1880	.5544	.6886
#1	.5044	1.169	2.122	2.220	.5263	2.159	.5291	2.079	65.35
#2	.5040	1.182	2.132	2.232	.5297	2.150	.5277	2.062	64.72

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	20.96	34.48	28.81	30.04	.1875	.0009	.0189	16.08	-0.0029
Stddev	.14	.34	.16	.10	.0001	.0001	.0014	.01	.0007
%RSD	.6816	.9778	.5478	.3172	.0476	14.00	7.171	.0906	23.43
#1	21.06	34.72	28.92	30.10	.1874	.0008	.0199	16.07	-.0034
#2	20.85	34.24	28.70	29.97	.1875	.0010	.0180	16.09	-.0024

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5088	.0012	.0407	-0.0068	.36.26	.0045	.0274
Stddev	.0022	.0002	.0002	.0005	.09	.0010	.0003
%RSD	.4337	15.91	.4032	7.173	.2477	22.01	.9867
#1	.5103	.0013	.0408	-.0065	36.19	.0052	.0272
#2	.5072	.0010	.0406	-.0072	36.32	.0038	.0276

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	65207.	9638.3	2199.3	3189.5
Stddev	19.	62.7	5.2	12.0
%RSD	.02924	.65053	.23625	.37768
#1	65220.	9593.9	2203.0	3198.0
#2	65193.	9682.6	2195.7	3180.9

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Sample Name: jb70255-1f Acquired: 7/1/2014 15:34:50 Type: Unk
Method: Accutest1(v35) 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	.0460	.0006	.0017	.0532	.0010	.0023	2.910	.1570	.0011
Stddev	.0000	.0001	.0001	.0002	.0003	.0001	.001	.0000	.0001
%RSD	.0532	16.12	6.600	.3103	29.74	3.338	.0467	.0072	10.50
#1	.0460	.0006	.0018	.0533	.0012	.0022	2.911	.1570	.0012
#2	.0460	.0007	.0016	.0531	.0008	.0023	2.910	.1570	.0010
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0022	.6903	.0030	.0037	.0029	.0068	.0005	.0608	40.05
Stddev	.0000	.0013	.0005	.0009	.0005	.0013	.0000	.0094	.24
%RSD	.3863	.1877	15.06	24.26	15.73	19.31	6.729	15.51	.5887
#1	.0022	.6894	.0034	.0031	.0033	.0059	.0005	.0541	39.89
#2	.0022	.6912	.0027	.0044	.0026	.0077	.0005	.0675	40.22
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	19.93	9.557	3.782	4.344	.1836	.0000	.0188	16.00	.0030
Stddev	.06	.034	.062	.027	.0001	.0001	.0004	.07	.0004
%RSD	.3043	.3547	1.646	.6127	.0553	3957.	2.195	.4680	14.66
#1	19.88	9.533	3.826	4.363	.1836	.0001	.0191	16.05	.0033
#2	19.97	9.581	3.738	4.326	.1835	.0001	.0185	15.94	.0027
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.5066	.0006	.0178	.0147	35.42	.0002	.0273		
Stddev	.0004	.0002	.0001	.0001	.15	.0002	.0005		
%RSD	.0784	31.28	.5522	.3894	.4240	108.4	2.011		
#1	.5068	.0004	.0178	.0147	35.53	.0003	.0277		
#2	.5063	.0007	.0179	.0146	35.32	.0000	.0269		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	66909.	9769.5	2261.1	3420.3					
Stddev	67.	46.9	8.9	5.5					
%RSD	.09970	.47975	.39293	.16061					
#1	66862.	9802.6	2254.8	3416.4					
#2	66956.	9736.3	2267.4	3424.1					

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Sample Name: mp80360-sd2 Acquired: 7/1/2014 15:40:49 Type: Unk
Method: Accutest1(v35) 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	.0489	.0010	.0013	.0549	.0015	.0011	3.076	.1632	.0034
Stddev	.0007	.0003	.0002	.0007	.0013	.0001	.003	.0019	.0036
%RSD	1.369	27.28	12.31	1.257	83.84	9.723	.0843	1.191	106.0
#1	.0484	.0008	.0012	.0544	.0006	.0011	3.074	.1618	.0009
#2	.0493	.0012	.0014	.0554	.0024	.0010	3.078	.1646	.0060
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0024	.7436	.0043	.0012	.0033	.0004	.0020	.0088	42.34
Stddev	.0016	.0000	.0044	.0043	.0031	.0049	.0015	.0228	.17
%RSD	66.63	.0038	101.6	352.3	93.84	1328.	73.93	258.9	.4076
#1	.0013	.7436	.0074	.0043	.0011	.0038	.0009	.0249	42.22
#2	.0036	.7435	.0012	.0018	.0054	.0031	.0030	.0073	42.47
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	20.82	10.13	3.963	4.675	.1861	.0004	.0171	16.12	.0040
Stddev	.06	.10	.100	.024	.0001	.0010	.0072	.05	.0010
%RSD	.2887	1.011	2.519	.5194	.0655	235.1	42.13	.2842	24.73
#1	20.78	10.06	4.034	4.692	.1862	.0003	.0120	16.16	.0033
#2	20.86	10.20	3.892	4.658	.1861	.0012	.0222	16.09	.0047
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.5261	.0028	.0251	.0138	35.94	.0017	.0235		
Stddev	.0004	.0016	.0004	.0002	.07	.0022	.0020		
%RSD	.0668	55.63	1.571	1.516	.1810	130.9	8.334		
#1	.5258	.0017	.0248	.0140	35.99	.0032	.0221		
#2	.5263	.0039	.0253	.0137	35.90	.0001	.0249		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	67240.	9600.2	2311.3	3544.3					
Stddev	231.	73.5	5.5	1.1					
%RSD	.34386	.76581	.23792	.03027					
#1	67404.	9652.2	2307.4	3543.5					
#2	67077.	9548.2	2315.2	3545.0					

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Sample Name: mp80360-sd1 Acquired: 7/1/2014 15:46:50 Type: Unk
Method: Accutest1(v35) 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	.0456	.0009	.0016	.0505	.0024	.0037	2.713	.1487	.0020
Stddev	.0004	.0005	.0005	.0007	.0018	.0002	.006	.0004	.0021
%RSD	.8872	52.05	32.77	1.391	72.55	5.647	.2370	.2863	105.7
#1	.0453	.0006	.0020	.0500	.0012	.0039	2.709	.1484	.0005
#2	.0459	.0012	.0012	.0510	.0037	.0036	2.718	.1490	.0034
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0012	.6292	.0006	.0070	.0058	.0000	.0038	.0433	37.33
Stddev	.0015	.0003	.0027	.0050	.0011	.0018	.0071	.0378	.07
%RSD	130.9	.0444	477.0	71.11	19.43	4551.	187.5	87.45	.1820
#1	.0001	.6294	.0013	.0106	.0066	.0012	.0088	.0165	37.37
#2	.0023	.6290	.0025	.0035	.0050	.0013	.0012	.0700	37.28
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	18.21	8.862	3.797	3.968	.1665	.0001	.0173	15.04	.0035
Stddev	.10	.200	.087	.047	.0006	.0003	.0054	.01	.0013
%RSD	.5334	2.258	2.289	1.173	.3623	350.0	31.17	.0814	37.88
#1	18.14	9.003	3.736	3.935	.1660	.0003	.0135	15.05	.0026
#2	18.28	8.720	3.859	4.001	.1669	.0001	.0211	15.03	.0045
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.4782	.0009	.0186	.0131	33.09	.0033	.0231		
Stddev	.0010	.0014	.0028	.0000	.01	.0001	.0070		
%RSD	.2105	164.4	15.06	.0052	.0438	2.687	30.46		
#1	.4775	.0001	.0205	.0131	33.08	.0032	.0281		
#2	.4789	.0019	.0166	.0131	33.10	.0034	.0181		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	67923.	9771.1	2329.9	3573.5					
Stddev	208.	18.5	.1	6.0					
%RSD	.30645	.18976	.00524	.16823					
#1	68070.	9758.0	2330.0	3577.7					
#2	67776.	9784.2	2329.8	3569.2					

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Sample Name: jb70255-4 Acquired: 7/1/2014 15:52:52 Type: Unk
Method: Accutest1(v35) 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	.0647	.0002	.0000	.0015	.0018	.0000	.1904	.0036	.0002
Stddev	.0002	.0001	.0000	.0001	.0004	.0001	.0011	.0002	.0000
%RSD	.3230	25.98	10.92	5.923	20.61	496.3	.5772	6.324	2.105
#1	.0645	.0002	.0000	.0015	.0016	.0001	.1912	.0034	.0002
#2	.0648	.0002	.0000	.0014	.0021	.0001	.1896	.0037	.0002
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0019	.0046	.0010	.0025	.0003	.0029	.0013	.5810	34.62
Stddev	.0001	.0000	.0002	.0012	.0002	.0019	.0005	.0027	.13
%RSD	5.472	.1905	17.42	48.70	77.59	64.23	40.53	.4566	.3854
#1	.0020	.0046	.0012	.0017	.0004	.0043	.0017	.5791	34.53
#2	.0019	.0046	.0009	.0034	.0001	.0016	.0010	.5828	34.72
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	4.844	4.200	5.236	13.17	.0401	.0020	.0089	7.749	.0011
Stddev	.001	.002	.004	.01	.0002	.0001	.0002	.028	.0004
%RSD	.0273	.0581	.0754	.1042	.5019	3.122	2.537	.3630	36.74
#1	4.843	4.201	5.233	13.18	.0399	.0020	.0090	7.769	.0008
#2	4.845	4.198	5.238	13.16	.0402	.0020	.0087	7.730	.0014
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.4630	.0067	.0053	.0061	10.00	.0006	.0119		
Stddev	.0001	.0002	.0008	.0001	.04	.0005	.0012		
%RSD	.0159	3.211	15.29	1.357	.3834	84.41	9.769		
#1	.4629	.0065	.0048	.0062	10.03	.0009	.0127		
#2	.4630	.0068	.0059	.0060	9.977	.0002	.0111		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	66482.	9677.5	2266.1	3425.0					
Stddev	101.	34.8	3.6	5.4					
%RSD	.15227	.35973	.16055	.15770					
#1	66411.	9702.1	2263.6	3421.2					
#2	66554.	9652.8	2268.7	3428.8					

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Sample Name: jb70255-5 Acquired: 7/1/2014 15:58:53 Type: Unk
Method: Accutest1(v35) 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	.0510	.0002	.0159	-.0005	.0013	.0363	.0136	.0781	.0009
Stddev	.0000	.0000	.0002	.0002	.0001	.0002	.0000	.0004	.0004
%RSD	.0181	4.511	1.559	39.55	5.095	.6016	.2718	.4803	46.25
#1	.0510	.0002	.0161	-.0004	.0012	.0365	.0136	.0784	.0012
#2	.0510	.0002	.0158	-.0007	.0013	.0361	.0136	.0778	.0006
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0020	2.675	.0021	-.0057	.0030	.0105	.0044	.1261	58.42
Stddev	.0001	.006	.0004	.0009	.0003	.0002	.0004	.0001	.30
%RSD	5.323	.2413	20.12	15.97	9.864	2.203	9.926	.0733	.5122
#1	.0019	2.679	.0024	-.0064	.0028	.0103	.0041	.1262	58.63
#2	.0020	2.670	.0018	-.0051	.0033	.0106	.0047	.1260	58.21
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0612	9.040	4.640	6.970	.2378	.0002	.0287	24.22	-.0036
Stddev	.0039	.053	.000	.039	.0021	.0001	.0002	.15	.0001
%RSD	6.425	.5827	.0044	.5601	.8831	29.97	.6819	.6303	2.012
#1	.0640	9.077	4.640	6.998	.2392	.0002	.0288	24.33	-.0037
#2	.0585	9.003	4.640	6.943	.2363	.0002	.0285	24.11	-.0036
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.5889	-.0004	.0158	-.0217	33.58	-.0023	.0072		
Stddev	.0021	.0001	.0002	.0000	.17	.0008	.0008		
%RSD	.3650	25.52	1.547	.1668	.5150	34.19	10.55		
#1	.5904	-.0003	.0156	-.0217	33.70	-.0028	.0077		
#2	.5874	-.0004	.0160	-.0216	33.45	-.0017	.0066		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	66272.	9714.4	2254.6	3395.6					
Stddev	341.	70.6	13.0	19.0					
%RSD	.51488	.72712	.57612	.55971					
#1	66030.	9664.4	2245.4	3382.1					
#2	66513.	9764.3	2263.8	3409.0					

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Sample Name: jb70255-6 Acquired: 7/1/2014 16:04:52 Type: Unk
Method: Accutest1(v35) 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	.0221	.0002	.0005	.0018	.0003	.0036	.3419	.0113	.0004
Stddev	.0001	.0001	.0000	.0001	.0004	.0004	.0001	.0003	.0000
%RSD	.3590	25.31	5.018	4.535	139.4	12.31	.0344	2.412	7.830
#1	.0221	.0002	.0005	.0017	.0005	.0039	.3419	.0111	.0003
#2	.0222	.0002	.0005	.0018	.0000	.0033	.3418	.0115	.0004
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0004	.0687	.0037	-.0030	.0008	.0080	.0008	.0767	6.035
Stddev	.0002	.0011	.0008	.0006	.0008	.0014	.0012	.0087	.036
%RSD	63.46	1.608	22.04	19.51	96.79	17.48	140.3	11.39	.6007
#1	.0002	.0680	.0042	-.0035	.0003	.0070	.0000	.0829	6.009
#2	.0006	.0695	.0031	-.0026	.0013	.0090	.0017	.0705	6.060
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	6.474	2.129	.9105	2.002	.0298	-.0002	.0197	19.96	-.0028
Stddev	.029	.017	.0109	.007	.0008	.0002	.0015	.31	.0000
%RSD	.4475	.8166	1.202	.3699	2.704	94.03	7.396	1.577	1.497
#1	6.454	2.141	.9182	2.007	.0292	-.0001	.0187	19.74	-.0029
#2	6.495	2.117	.9027	1.997	.0304	-.0003	.0207	20.18	-.0028
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0379	-.0002	.0174	-.0171	4.386	-.0021	.0166		
Stddev	.0001	.0006	.0008	.0001	.066	.0007	.0000		
%RSD	.2612	289.4	4.544	.8424	1.507	32.42	.1608		
#1	.0379	.0002	.0180	-.0170	4.339	-.0016	.0166		
#2	.0378	-.0006	.0169	-.0172	4.433	-.0026	.0166		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	67868.	9777.5	2312.5	3571.8					
Stddev	112.	73.3	31.3	47.5					
%RSD	.16497	.75011	1.3535	1.3287					
#1	67788.	9829.3	2334.6	3605.3					
#2	67947.	9725.6	2290.3	3538.2					

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Sample Name: jb70255-7 Acquired: 7/1/2014 16:10:51 Type: Unk
Method: Accutest1(v35) 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	.0451	.0008	.0017	.0509	.0013	.0055	2.709	.1480	.0014
Stddev	.0004	.0000	.0001	.0002	.0000	.0000	.007	.0001	.0001
%RSD	.9919	5.398	4.695	.3254	1.897	.7834	.2439	.0469	9.802
#1	.0448	.0008	.0018	.0507	.0013	.0055	2.714	.1480	.0013
#2	.0454	.0007	.0017	.0510	.0013	.0055	2.705	.1481	.0015
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0021	.6172	.0033	-.0039	.0018	.0061	.0006	.0742	37.62
Stddev	.0000	.0001	.0003	.0002	.0008	.0013	.0002	.0086	.06
%RSD	.7677	.0115	9.819	5.336	46.41	20.96	31.99	11.61	.1557
#1	.0021	.6173	.0031	-.0037	.0024	.0071	.0008	.0803	37.58
#2	.0021	.6172	.0035	-.0040	.0012	.0052	.0005	.0681	37.66
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	18.59	8.963	3.743	4.085	.1744	-.0001	.0177	15.52	-.0034
Stddev	.05	.080	.050	.004	.0006	.0002	.0001	.03	.0008
%RSD	.2763	.8966	1.323	.1109	.3161	106.5	.7654	.1964	22.71
#1	18.55	8.906	3.708	4.082	.1740	-.0000	.0178	15.50	-.0039
#2	18.63	9.019	3.778	4.088	.1748	-.0003	.0176	15.55	-.0028
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.4790	.0011	.0141	-.0139	33.96	-.0009	.0270		
Stddev	.0004	.0006	.0000	.0000	.01	.0012	.0005		
%RSD	.0872	55.04	.2698	.3543	.0435	135.4	1.697		
#1	.4793	.0015	.0140	-.0139	33.95	-.0000	.0273		
#2	.4787	.0006	.0141	-.0139	33.97	-.0017	.0267		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	67184.	9739.8	2263.8	3431.5					
Stddev	220.	14.1	.6	4.7					
%RSD	.32671	.14457	.02635	.13796					
#1	67028.	9729.9	2264.3	3434.8					
#2	67339.	9749.8	2263.4	3428.1					

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Sample Name: jb70255-10 Acquired: 7/1/2014 16:16:48 Type: Unk
Method: Accutest1(v35) 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	.0009	-.0000	-.0000	-.0001	.0004	-.0006	-.0000	-.0002	.0000
Stddev	.0001	.0000	.0001	.0001	.0002	.0001	.0000	.0000	.0004
%RSD	15.27	497.7	1972.	210.0	46.69	21.64	247.3	4.984	773.9
#1	.0008	-.0000	-.0001	.0000	.0006	-.0005	-.0000	-.0002	-.0002
#2	.0010	.0000	.0001	-.0002	.0003	-.0007	.0000	-.0002	.0003
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	-.0004	.0006	-.0007	-.0009	-.0004	.0001	.0006	-.0045	.0026
Stddev	.0000	.0001	.0008	.0001	.0001	.0018	.0007	.0010	.0035
%RSD	7.782	13.83	119.5	5.779	30.98	1290.	132.7	21.14	132.1
#1	-.0004	.0007	-.0001	-.0009	-.0003	-.0012	.0000	-.0039	.0002
#2	-.0004	.0006	-.0012	-.0010	-.0005	.0014	.0011	-.0052	.0051
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0027	-.0004	-.0042	-.0051	.0004	.0002	-.0006	.0061	.0002
Stddev	.0036	.0041	.0157	.0065	.0001	.0000	.0004	.0001	.0011
%RSD	132.0	1000.	370.0	128.1	14.86	18.70	65.67	.9823	439.7
#1	.0002	.0025	.0069	-.0005	.0005	.0003	-.0003	.0060	.0010
#2	.0052	-.0033	-.0154	-.0097	.0004	.0002	-.0009	.0061	-.0005
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0000	.0005	-.0011	.0002	.0049	-.0014	-.0004		
Stddev	.0001	.0000	.0010	.0002	.0018	.0002	.0002		
%RSD	1153.	.7658	95.04	80.00	36.23	11.87	50.32		
#1	.0001	.0005	-.0018	.0001	.0062	-.0015	-.0003		
#2	-.0001	.0005	-.0004	.0003	.0036	-.0013	-.0006		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	67721.	9772.9	2338.6	3610.0					
Stddev	187.	4.8	3.6	5.9					
%RSD	.27544	.04902	.15546	.16251					
#1	67853.	9769.5	2336.1	3605.8					
#2	67589.	9776.3	2341.2	3614.1					

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Sample Name: ccv Acquired: 7/1/2014 16:23:17 Type: QC									
Method: Accutest1(v35) 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	1.992	2.038	2.037	2.068	2.076	1.963	2.060	2.084	2.481
Stddev	.004	.003	.011	.001	.010	.006	.003	.001	.0001
%RSD	.2227	.1338	.5566	.0356	.4873	.2833	.1485	.0376	.0399
#1	1.989	2.036	2.045	2.068	2.069	1.959	2.058	2.083	2.481
#2	1.995	2.040	2.029	2.069	2.083	1.967	2.062	2.085	2.482
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	2.036	2.041	2.019	2.162	2.106	2.038	2.047	40.42	40.72
Stddev	.007	.004	.006	.010	.004	.006	.008	.09	.08
%RSD	.3452	.2217	.3212	.4535	.1914	.3146	.4034	.2330	.1862
#1	2.031	2.038	2.023	2.169	2.109	2.042	2.052	40.35	40.77
#2	2.041	2.045	2.014	2.155	2.103	2.033	2.041	40.48	40.67
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	40.56	39.38	39.60	40.12	2.073	2.066	2.021	5.225	2.092
Stddev	.02	.02	.13	.14	.014	.003	.005	.029	.006
%RSD	.0542	.0567	.3244	.3486	.6783	.1591	.2592	.5596	.2827
#1	40.54	39.39	39.51	40.02	2.083	2.068	2.017	5.246	2.097
#2	40.57	39.36	39.69	40.22	2.063	2.063	2.024	5.204	2.088
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: 7/1/2014 16:29:56 Type: QC									
Method: Accutest1(v35) 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	.0003	.0001	.0003	.0000	-.0004	.0001	.0006	-.0003
Stddev	.0000	.0000	.0001	.0003	.0002	.0001	.0000	.0002	.0003
%RSD	17.58	1.188	144.6	101.6	763.6	23.32	5.175	39.81	107.6
#1	.0002	.0002	-.0000	.0001	.0001	-.0004	.0001	.0008	-.0005
#2	.0003	.0003	.0001	.0004	-.0001	-.0005	.0001	.0005	-.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	-.0001	.0002	-.0006	.0002	.0008	-.0007	.0009	-.0046	-.0032
Stddev	.0003	.0000	.0008	.0001	.0001	.0009	.0000	.0154	.0015
%RSD	251.0	8.990	138.3	52.59	17.59	125.6	2.922	332.2	47.35
#1	.0001	.0002	-.0000	.0001	.0009	-.0014	.0009	.0062	-.0021
#2	-.0003	.0002	-.0011	.0002	.0007	-.0001	.0010	-.0155	-.0042
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	-.0001	.0314	.0357	-.0002	.0006	.0013	-.0001	-.0014	.0001
Stddev	.0007	.0286	.0114	.0006	.0007	.0003	.0007	.0006	.0001
%RSD	542.2	91.19	31.91	333.2	101.5	22.42	909.2	40.41	82.64
#1	-.0006	.0112	.0277	.0002	.0011	.0015	.0004	-.0018	.0002
#2	.0004	.0516	.0438	-.0006	.0002	.0011	-.0006	-.0010	.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: ccv Acquired: 7/1/2014 16:23:17 Type: QC									
Method: Accutest1(v35) 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	2.012	2.022	1.995	2.034	2.010	2.060	1.986		
Stddev	.005	.005	.002	.008	.003	.012	.014		
%RSD	.2281	.2300	.0903	.4098	.1533	.5849	.6977		
#1	2.008	2.019	1.994	2.028	2.012	2.069	1.976		
#2	2.015	2.025	1.996	2.039	2.008	2.052	1.996		
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	63899.	9482.6	2202.8	3136.2					
Stddev	195.	45.4	1.4	4.9					
%RSD	.30460	.47848	.06159	.15673					
#1	64037.	9450.6	2201.8	3139.7					
#2	63761.	9514.7	2203.8	3132.7					

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Sample Name: ccb Acquired: 7/1/2014 16:29:56 Type: QC									
Method: Accutest1(v35) 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	.0069	.0007	.0043	.0015	-.0009		
Stddev	.0000	.0003	.0000	.0000	.0014	.0007	.0007		
%RSD	46.89	100.1	.4146	5.984	32.63	44.67	72.23		
#1	.0001	.0006	.0069	.0007	.0033	.0020	-.0014		
#2	.0001	.0001	.0068	.0007	.0053	.0010	-.0004		
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	67672.	9616.8	2324.1	3570.4					
Stddev	184.	10.2	4.1	8.0					
%RSD	.27248	.10574	.17852	.22494					
#1	67542.	9609.6	2321.2	3564.7					
#2	67802.	9624.0	2327.0	3576.1					

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Sample Name: mp-013-662spcnf Acquired: 7/1/2014 16:36:36 Type: Unk
Method: Accutest1(v35) 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	1.888	.0484	.0495	.4767	.2015	.2395	.5011	.4840	.0469
Stddev	.002	.0000	.0004	.0046	.0011	.0001	.0001	.0057	.0002
%RSD	.1100	.0785	.8784	.9675	.5261	.4537	.0188	1.177	.3858
#1	1.886	.0484	.0498	.4800	.2022	.2403	.5010	.4880	.0470
#2	1.889	.0483	.0492	.4734	.2007	.2387	.5011	.4799	.0468
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.4821	.4903	1.925	2.211	.5117	1.956	.4702	1.902	-.0262
Stddev	.0005	.0051	.023	.024	.0035	.028	.0050	.012	.0017
%RSD	.1003	1.035	1.207	1.075	.6770	1.446	1.057	.6136	6.475
#1	.4824	.4939	1.942	2.227	.5141	1.976	.4737	1.894	-.0274
#2	.4817	.4867	1.909	2.194	.5092	1.936	.4667	1.911	-.0250
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	1.008	.0020	.0431	.0093	.0003	-.0002	-.0016	-.0014	.0003
Stddev	.003	.0104	.0170	.0040	.0001	.0001	.0013	.0007	.0003
%RSD	.2741	510.0	39.47	42.56	20.26	43.36	81.59	52.43	89.73
#1	1.010	-.0053	.0311	.0065	.0002	-.0001	-.0026	-.0009	.0001
#2	1.006	-.0094	.0551	.0121	.0003	-.0002	-.0007	-.0019	.0006
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0001	.0005	.0243	.0028	.0057	.0006	-.0009		
Stddev	.0000	.0002	.0011	.0001	.0012	.0000	.0014		
%RSD	55.93	37.76	4.720	3.717	20.53	2.296	157.5		
#1	.0001	.0004	.0251	.0029	.0049	.0006	-.0018		
#2	.0000	.0007	.0235	.0027	.0065	.0006	.0001		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	67581.	9736.6	2341.2	3572.1					
Stddev	59.	55.4	20.5	32.0					
%RSD	.08738	.56889	.87714	.89660					
#1	67539.	9697.4	2326.7	3549.4					
#2	67623.	9775.7	2355.8	3594.7					

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Sample Name: crid Acquired: 7/1/2014 16:43:59 Type: QC
Method: Accutest1(v35) 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	.0020	.0016	.0033	.0042	
Stddev	.0000	.0000	.0001	.0000	.0000	.0000	.0001	.0001	
%RSD	.0490	4.294	5.991	.0543	1.289	2.442	2.110	2.699	
#1	.0042	.0010	.0010	.0030	.0020	.0016	.0032	.0042	
#2	.0042	.0010	.0011	.0030	.0020	.0015	.0033	.0043	
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	.0007	.0019	.0110	.0033	.0020	.0031	.0056	.0034	
Stddev	.0003	.0003	.0001	.0014	.0007	.0013	.0015	.0001	
%RSD	39.00	17.11	.7663	41.62	34.77	42.87	26.08	3.392	
#1	.0009	.0021	.0110	.0043	.0015	.0022	.0067	.0034	
#2	.0005	.0017	.0111	.0024	.0025	.0040	.0046	.0033	
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	.0931	1.019	.0027	.1052	1.941	.9930	.0101	.0001	
Stddev	.0044	.007	.0022	.0210	.009	.0008	.0001	.0002	
%RSD	4.747	.7283	81.94	19.98	.4435	.0762	.9057	150.8	
#1	.0899	1.014	.0011	.0903	1.947	.9936	.0101	-.0000	
#2	.0962	1.025	.0043	.1200	1.935	.9925	.0100	.0002	
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: 7/1/2014 16:43:59 Type: QC
Method: Accutest1(v35) 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	-.0003	-.0006	-.0000	-.0001	-.0002	F .0006	F .0003	.0033	
Stddev	.0000	.0001	.0001	.0001	.0001	.0000	.0002	.0009	
%RSD	.0796	17.13	2450.	209.7	63.27	6.940	44.83	27.12	
#1	-.0003	-.0007	-.0001	-.0000	-.0001	.0006	.0005	.0026	
#2	-.0003	-.0006	-.0001	-.0002	-.0002	.0006	.0002	.0039	
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 .0001	F -.0005							
Stddev	.0002	.0005							
%RSD	259.3	102.8							
#1	.0003	-.0009							
#2	-.0001	-.0001							
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	66560.	9695.1	2326.2	3565.9					
Stddev	119.	36.3	.4	6.2					
%RSD	.17883	.37403	.01677	.17497					
#1	66644.	9720.7	2325.9	3561.5					
#2	66476.	9669.4	2326.4	3570.3					

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[Zoom In](#)
[Zoom Out](#)

Sample Name: cri Acquired: 7/1/2014 16:50:03 Type: QC
Method: Accutest1(v35) 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	.2019	.0022	.0033	.0516	.0112	.0098	.0162	.0108	.0051
Stddev	.0006	.0001	.0001	.0002	.0002	.0004	.0002	.0001	.0006
%RSD	.3177	2.620	1.668	.2957	1.390	4.072	.9769	.6586	12.08
#1	.2024	.0022	.0033	.0517	.0111	.0095	.0161	.0107	.0047
#2	.2015	.0021	.0033	.0515	.0113	.0100	.0164	.0108	.0055
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	.0544	.0224	.0089	.0120	.0029	.0117	.0063	.1874	5.137
Stddev	.0000	.0003	.0003	.0019	.0007	.0005	.0004	.0048	.004
%RSD	.0580	1.367	3.261	15.73	23.32	4.701	7.101	2.609	.0731
#1	.0543	.0227	.0091	.0106	.0034	.0120	.0060	.1909	5.140
#2	.0544	.0222	.0086	.0133	.0024	.0113	.0066	.1840	5.135
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	.1082	4.958	4.920	4.992	1.037	.0209	.0561	.2111	.0110
Stddev	.0006	.014	.039	.009	.0000	.0001	.0012	.0017	.0001
%RSD	.5421	.2853	.7880	.1697	.0145	.2751	2.124	.8033	.8041
#1	.1086	4.948	4.892	4.998	.1037	.0208	.0553	.2099	.0109
#2	.1078	4.968	4.947	4.986	.1037	.0209	.0570	.2123	.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: cri Acquired: 7/1/2014 16:50:03 Type: QC
Method: Accutest1(v35) 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	.0104	.0111	.0566	.0110	.0486	.0221	.0196
Stddev	.0001	.0001	.0006	.0001	.0011	.0010	.0000
%RSD	.5596	.7815	1.068	.9973	2.287	4.651	.0874
#1	.0105	.0111	.0570	.0111	.0478	.0228	.0196
#2	.0104	.0110	.0562	.0109	.0494	.0214	.0195

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	66853.	9601.4	2297.8	3501.0
Stddev	148.	53.1	3.2	8.1
%RSD	.22152	.55304	.13960	.23147
#1	66958.	9638.9	2295.6	3495.3
#2	66749.	9563.8	2300.1	3506.7

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Sample Name: cri Acquired: 7/1/2014 16:56:06 Type: QC
Method: Accutest1(v35) 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	.0000	.0004	.0039	.0003	-.0005
Stddev	.0000	.0003	.0004	.0002	.0011	.0001	.0006
%RSD	17.01	109.2	3420.	56.68	29.07	45.04	138.4
#1	-.0000	.0001	-.0003	.0003	.0048	.0002	-.0000
#2	-.0000	.0005	.0003	.0006	.0031	.0004	-.0009

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	67572.	9643.4	2334.0	3589.2
Stddev	110.	8.2	1.9	4.0
%RSD	.16220	.08473	.08035	.11227
#1	67649.	9637.7	2332.7	3592.0
#2	67494.	9649.2	2335.3	3586.3

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Sample Name: cri Acquired: 7/1/2014 16:56:06 Type: QC
Method: Accutest1(v35) 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	-.0006	.0000	.0000	-.0003
Stddev	.0004	.0000	.0001	.0002	.0001	.0001	.0000	.0000	.0002
%RSD	368.0	8.365	75.32	2327.	37.92	24.42	971.1	34.43	87.89
#1	-.0002	.0000	-.0001	-.0002	.0001	-.0005	-.0000	.0000	-.0004
#2	.0003	.0000	-.0003	.0002	.0002	-.0007	.0000	.0000	-.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	-.0001	.0005	.0205	-.0002	.0212	.0216	.0205	.4992	-.0029
Stddev	.0001	.0001	.0007	.0017	.0001	.0017	.0002	.0111	.0001
%RSD	113.6	16.32	3.594	1005.	.6568	8.019	1.173	2.217	4.827
#1	-.0001	.0005	.0200	.0010	.0213	.0203	.0207	.5070	-.0030
#2	-.0000	.0006	.0210	-.0014	.0211	.0228	.0203	.4913	-.0028

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	.5294	.0020	.0250	-.0034	.0000	-.0000	-.0003	-.0014	.0001
Stddev	.0033	.0098	.0148	.0002	.0006	.0000	.0002	.0006	.0005
%RSD	.6215	488.7	59.07	5.834	1874.	6.749	63.19	40.33	763.6
#1	.5271	-.0049	.0355	-.0036	-.0004	-.0000	-.0004	-.0018	-.0003
#2	.5317	.0089	.0146	-.0033	.0004	-.0000	-.0002	-.0010	.0004

Check ? Value Range
Chk Pass None None None None None None None None

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Sample Name: crid Acquired: 7/1/2014 17:02:12 Type: QC
Method: Accutest1(v35) 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	.0041	.0009	.0010	.0030	.0021	F .0012	.0032	.0044
Stddev	.0001	.0000	.0001	.0001	.0002	.0003	.0000	.0001
%RSD	2.314	.1305	7.237	4.943	10.84	24.38	.4143	3.015
#1	.0040	.0009	.0010	.0031	.0020	.0010	.0032	.0045
#2	.0042	.0009	.0011	.0029	.0023	.0014	.0031	.0043

Check ? Value Range
Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Fail .0020 -30.00% Chk Pass Chk Pass

Elem	Ag3280	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0006	.0019	.0113	.0030	.0024	.0027	.0059	.0032
Stddev	.0004	.0003	.0002	.0003	.0004	.0004	.0003	.0004
%RSD	57.55	14.99	1.577	9.252	17.29	13.34	4.792	12.05
#1	.0009	.0017	.0112	.0028	.0021	.0025	.0061	.0035
#2	.0004	.0020	.0114	.0032	.0026	.0030	.0057	.0029

Check ? Value Range
Chk Fail .0010 -30.00% 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	.0909	1.030	-.0006	.0989	1.954	1.002	.0100	.0001
Stddev	.0020	.001	.0023	.0330	.001	.002	.0003	.0001
%RSD	2.191	.0519	412.4	33.39	.0671	.1658	2.886	148.3
#1	.0923	1.030	.0011	.1222	1.953	1.001	.0098	.0001
#2	.0895	1.030	-.0022	.0755	1.955	1.003	.0102	-.0000

Check ? Value Range
Chk Pass Chk Pass None Chk Pass Chk Pass Chk Pass Chk Pass None

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Sample Name: crid Acquired: 7/1/2014 17:02:12 Type: QC
Method: Accutest1(v35) 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	-0.006	.0001	-0.000	-0.000	-0.001	F_0.0006	F_0.0002	F_0.0013
Stddev	.0015	.0005	.0006	.0000	.0001	.0006	.0000	.0004
%RSD	262.7	398.9	1519.	24.75	118.9	105.5	9.164	28.40
#1	-.0016	.0005	-.0005	-.0000	-.0000	.0001	.0002	.0010
#2	.0005	-.0002	.0004	-.0000	-.0001	.0010	.0002	.0016

Check ?
Value
Range

None	None	None	None	None	None	Chk Fail .0040 -30.00%	Chk Fail .0040 -30.00%	Chk Fail .0040 -30.00%
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Elem	Bi2230	Li6707
Units	ppm	ppm
Avg	F_0.0008	F_0.0011
Stddev	.0002	.0000
%RSD	29.99	3.258

#1	-.0006	-.0011
#2	-.0009	-.0012

Check ?
Value
Range

Chk Fail .0040 -30.00%	Chk Fail .0040 -30.00%
------------------------------	------------------------------

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	67121.	9665.8	2306.2	3533.6
Stddev	212.	28.9	.4	9.2
%RSD	.31567	.29878	.01868	.26095

#1	67271.	9645.4	2305.9	3540.1
#2	66971.	9686.2	2306.5	3527.1

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Sample Name: icsa Acquired: 7/1/2014 17:08:18 Type: QC
Method: Accutest1(v35) 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	-0.0012	.0007	.0014	.0007	-0.0015	-0.0006	.0001	.0009	-0.0021
Stddev	.0001	.0001	.0004	.0001	.0007	.0002	.0001	.0002	.0014
%RSD	7.077	14.02	26.80	15.82	47.51	38.11	69.20	19.89	65.54
#1	-.0013	.0008	.0011	.0008	-.0010	-.0005	.0001	.0007	-.0031
#2	-.0012	.0007	.0017	.0006	-.0020	-.0008	.0002	.0010	-.0011

Check ?
High Limit
Low Limit

Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
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Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0039	.0004	.0028	.0015	.0011	.0009	.0004	506.8	379.4
Stddev	.0002	.0003	.0028	.0002	.0008	.0023	.0017	6.1	4.4
%RSD	4.984	80.99	100.6	12.10	70.09	249.3	372.6	1.213	1.156

#1	.0040	.0002	.0008	.0014	.0006	-.0007	-.0007	502.4	376.3
#2	.0038	.0006	.0048	.0017	.0017	.0026	.0016	511.1	382.5

Check ?
High Limit
Low Limit

Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
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Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	184.9	486.6	-0.044	-0.201	-0.009	.0008	-0.0329	-0.0065	-0.0041
Stddev	2.4	5.7	.0081	.0014	.0005	.0001	.0006	.0004	.0008
%RSD	1.290	1.169	183.8	6.921	53.73	14.84	1.815	5.636	18.76

#1	183.2	482.6	.0013	-.0191	-.0005	.0009	-.0334	-.0068	-.0046
#2	186.6	490.6	-.0101	-.0211	-.0012	.0007	-.0325	-.0062	-.0036

Check ?
High Limit
Low Limit

Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
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Sample Name: icsa Acquired: 7/1/2014 17:08:18 Type: QC
Method: Accutest1(v35) 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	-0.0049	.0015	-0.0465	-0.000	-0.0277	.0255	.0031
Stddev	.0001	.0002	.0011	.0003	.0006	.0002	.0006
%RSD	1.385	15.16	2.386	2032.	2.331	.7594	19.77

#1	-.0049	.0013	-.0457	-.0002	-.0281	.0256	.0035
#2	-.0050	.0017	-.0473	.0002	-.0272	.0253	.0027

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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Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	56967.	9107.7	1954.6	2656.3
Stddev	47.	77.9	8.3	5.9
%RSD	.08315	.85559	.42522	.22087

#1	57001.	9162.8	1948.8	2652.2
#2	56934.	9052.6	1960.5	2660.5

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Sample Name: ICSAB Acquired: 7/1/2014 17:14:19 Type: QC
Method: Accutest1(v35) 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	.4737	.4764	.9903	.4800	.4793	.4857	.4813	.9370	1.004
Stddev	.0008	.0003	.0007	.0009	.0017	.0010	.0024	.0006	.001
%RSD	.1635	.0682	.0675	.1930	.3584	.2113	.4955	.0687	.0590

#1	.4743	.4767	.9898	.4794	.4781	.4865	.4796	.9365	1.003
#2	.4732	.4762	.9908	.4807	.4805	.4850	.4829	.9374	1.004

Check ?
Value
Range

Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
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Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4818	.9213	1.012	.9424	.9446	.9825	.9982	498.3	371.5
Stddev	.0014	.0004	.000	.0008	.0026	.0009	.0006	.0	.8
%RSD	.2937	.0482	.0282	.0858	.2703	.0869	.0585	.0034	.2050

#1	.4808	.9210	1.013	.9430	.9428	.9931	.9987	498.3	372.0
#2	.4828	.9216	1.012	.9419	.9464	.9919	.9978	498.3	370.9

Check ?
Value
Range

Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
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Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	182.6	484.7	.0454	-0.0212	.0053	.4873	.4902	-0.0058	-0.0034
Stddev	.4	1.0	.0009	.0018	.0010	.0002	.0004	.0010	.0006
%RSD	.2087	.2107	1.996	8.299	18.00	.0496	.0842	17.71	16.59

#1	182.9	485.4	.0461	-.0199	.0060	.4871	.4900	-.0066	-.0030
#2	182.3	484.0	.0448	-.0224	.0046	.4874	.4905	-.0051	-.0038

Check ?
Value
Range

Chk Pass	Chk Pass	None	None	None	Chk Pass	Chk Pass	None	None	
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Sample Name: ICSAB Acquired: 7/1/2014 17:14:19 Type: QC
Method: Accutest1(v35) 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	-0.0048	.0020	.4786	.4447	.4622	.5193	.5025
Stddev	.0000	.0004	.0008	.0049	.0019	.0009	.0005
%RSD	.6294	22.35	.1637	1.097	.4154	.1804	.0951
#1	-.0048	.0017	.4792	.4413	.4609	.5187	.5028
#2	-.0048	.0023	.4780	.4482	.4636	.5200	.5021

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	57996.	9131.9	1981.9	2687.4
Stddev	238.	18.5	3.6	4.2
%RSD	.40977	.20238	.18092	.15459
#1	58164.	9144.9	1984.4	2690.4
#2	57828.	9118.8	1979.3	2684.5

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Sample Name: ccv Acquired: 7/1/2014 17:20:11 Type: QC
Method: Accutest1(v35) 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	1.986	1.922	2.020	1.960	2.044	1.953
Stddev	.001	.001	.012	.002	.000	.012	.010
%RSD	.0507	.0409	.6284	.0996	.0065	.5804	.5107
#1	1.981	1.987	1.914	2.022	1.960	2.035	1.946
#2	1.980	1.986	1.931	2.019	1.960	2.052	1.960

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	64256.	9473.5	2212.0	3160.9
Stddev	244.	81.3	4.8	1.0
%RSD	.38041	.85799	.21637	.03317
#1	64083.	9416.1	2215.3	3161.6
#2	64429.	9531.0	2208.6	3160.1

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Sample Name: ccv Acquired: 7/1/2014 17:20:11 Type: QC
Method: Accutest1(v35) 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	1.960	1.998	1.997	2.029	2.030	1.937	2.022	2.042	2.444
Stddev	.001	.003	.004	.001	.015	.005	.006	.002	.0011
%RSD	.0405	.1403	.2271	.0317	.7265	.2661	.3000	.0769	.4389
#1	1.960	2.000	1.994	2.030	2.040	1.940	2.026	2.043	2.451
#2	1.959	1.997	2.000	2.029	2.020	1.933	2.018	2.041	2.436

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	2.003	1.997	1.975	2.108	2.063	1.989	2.013	39.71	40.01
Stddev	.003	.005	.002	.001	.002	.004	.007	.11	.12
%RSD	.1362	.2376	.0869	.0433	.1157	.2037	.3511	.2647	.2952
#1	2.005	2.000	1.974	2.107	2.065	1.986	2.008	39.79	40.09
#2	2.001	1.993	1.976	2.108	2.061	1.992	2.018	39.64	39.92

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	39.96	39.29	39.04	39.48	1.998	2.032	1.997	5.053	2.056
Stddev	.11	.04	.10	.10	.009	.004	.005	.015	.003
%RSD	.2677	.0984	.2684	.2499	.4380	.2078	.2507	.2895	.1463
#1	40.03	39.32	38.96	39.41	1.992	2.030	2.000	5.043	2.054
#2	39.88	39.26	39.11	39.55	2.004	2.035	1.993	5.064	2.058

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: 7/1/2014 17:26:01 Type: QC
Method: Accutest1(v35) 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	.0001	.0003	.0002	.0005	.0000	.0001	.0004
Stddev	.0001	.0001	.0000	.0001	.0002	.0000	.0000	.0001	.0002
%RSD	39.68	41.37	5.794	26.62	95.41	7.422	234.1	108.2	38.35
#1	.0005	.0001	.0001	.0003	.0001	.0005	.0000	.0001	.0005
#2	.0003	.0002	.0001	.0004	.0003	.0005	.0001	.0000	.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	-0.0001	-0.0001	-0.0004	-0.0001	-0.0003	-0.0008	.0004	-0.0013	-0.0008
Stddev	.0001	.0000	.0001	.0007	.0008	.0030	.0008	.0205	.0028
%RSD	85.11	20.30	30.92	925.2	296.2	373.5	200.9	1516.	327.1
#1	-.0000	-.0001	-.0003	-.0006	-.0009	-.0029	.0010	-.0158	.0011
#2	-.0002	-.0001	-.0005	.0004	.0003	.0013	-.0002	.0131	-.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	.0080	-0.0073	.0218	-0.0020	.0012	.0016	-0.0005	-0.0013	.0006
Stddev	.0019	.0073	.0126	.0060	.0001	.0002	.0010	.0000	.0002
%RSD	24.14	100.6	58.03	295.9	8.883	9.613	185.9	3.318	34.85
#1	.0093	-.0125	.0307	-.0063	.0011	.0015	.0002	-.0014	.0004
#2	.0066	-.0021	.0128	.0022	.0013	.0017	-.0012	-.0013	.0007

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: 7/1/2014 17:26:01 Type: QC
 Method: Accutest1(v35) 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	.0106	.0008	.0019	.0017	-.0007
Stddev	.0002	.0002	.0020	.0001	.0001	.0002	.0004
%RSD	164.8	75.52	18.79	12.21	6.536	12.69	59.93

#1	.0002	.0001	.0120	.0009	.0019	.0016	-.0010
#2	-.0000	.0003	.0092	.0008	.0018	.0019	-.0004

Check ?
 High Limit
 Low Limit

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	67619.	9609.9	2320.6	3575.1
Stddev	255.	6.7	3.8	10.7
%RSD	.37701	.06963	.16534	.29865

#1	67439.	9605.2	2323.3	3582.7
#2	67800.	9614.6	2317.8	3567.6

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Sample Name: mp80402-b1 Acquired: 7/1/2014 17:38:13 Type: Unk
 Method: Accutest1(v35) 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	1.959	.0513	.0533	.5080	.2067	.2503	.5091	.5077	.0526
Stddev	.001	.0005	.0000	.0000	.0003	.0024	.0012	.0007	.0006
%RSD	.0428	.9719	.0026	.0036	.1354	.9600	.2381	.1305	1.064

#1	1.960	.0510	.0533	.5079	.2065	.2486	.5082	.5072	.0522
#2	1.959	.0517	.0533	.5080	.2069	.2520	.5099	.5081	.0529

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.5078	.5028	2.082	2.258	.5298	2.134	.5342	1.997	24.76
Stddev	.0004	.0007	.003	.001	.0013	.001	.0019	.021	.13
%RSD	.0781	.1351	.1260	.0315	.2384	.0244	.3560	1.051	.5204

#1	.5075	.5023	2.084	2.259	.5307	2.133	.5356	1.982	24.66
#2	.5081	.5032	2.080	2.258	.5289	2.134	.5329	2.012	24.85

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	1.055	24.91	24.73	25.40	2.077	2.082	2.027	2.195	2.098
Stddev	.007	.01	.08	.08	.004	.001	.006	.000	.002
%RSD	.6653	.0260	.3303	.3288	.1737	.0558	.3016	.0128	.0950

#1	1.050	24.90	24.78	25.46	2.079	2.081	2.023	2.195	2.097
#2	1.060	24.91	24.67	25.34	2.074	2.083	2.032	2.195	2.100

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Avg	1.990	2.041	.0333	.0157	.0093	.0034	-.0004
Stddev	.002	.005	.0003	.0016	.0003	.0011	.0002
%RSD	.1072	.2574	.9732	10.13	3.040	32.44	35.70

#1	1.988	2.037	.0335	.0168	.0091	.0026	-.0003
#2	1.991	2.045	.0330	.0146	.0095	.0041	-.0005

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	65613.	9577.6	2227.5	3281.7
Stddev	226.	12.2	.7	.5
%RSD	.34427	.12729	.02980	.01608

#1	65772.	9569.0	2227.1	3282.0
#2	65453.	9586.2	2228.0	3281.3

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Sample Name: mp80402-mb1 2 Acquired: 7/1/2014 17:32:07 Type: Unk
 Method: Accutest1(v35) 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	-.0000	-.0001	.0002	.0004	.0001
Stddev	.0001	.0001	.0001	.0002	.0002	.0001	.0000	.0000	.0003
%RSD	35.44	338.5	306.8	166.4	392.5	52.83	.7352	4.482	313.3

#1	.0002	-.0001	.0001	-.0000	-.0002	-.0001	.0002	.0004	-.0001
#2	.0004	-.0001	-.0000	.0003	.0001	-.0001	.0002	.0004	.0003

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	-.0003	.0082	.0001	-.0010	.0001	-.0009	.0008	-.0048	.0316
Stddev	.0002	.0002	.0000	.0003	.0013	.0009	.0006	.0090	.0011
%RSD	82.22	1.938	10.10	35.61	896.9	93.37	73.27	186.9	3.373

#1	-.0001	.0083	.0001	-.0007	-.0008	-.0016	.0004	.0016	.0308
#2	-.0005	.0081	.0001	-.0012	.0010	-.0003	.0013	-.0112	.0324

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0138	.0123	.0165	.0024	.0005	.0009	-.0008	.0003	.0001
Stddev	.0047	.0033	.0054	.0040	.0001	.0001	.0002	.0004	.0006
%RSD	33.69	27.12	32.82	165.1	15.77	6.906	30.00	13.98	426.8

#1	.0171	.0146	.0204	.0052	.0005	.0009	-.0006	.0034	.0005
#2	.0105	.0099	.0127	-.0004	.0004	.0010	-.0010	.0028	-.0003

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Avg	.0000	.0003	.0114	.0014	.0042	.0000	-.0007
Stddev	.0000	.0002	.0001	.0000	.0008	.0006	.0002
%RSD	59.87	91.03	1.153	1.326	18.59	10430.	22.57

#1	.0001	.0001	.0113	.0014	.0036	-.0004	-.0006
#2	.0000	.0004	.0115	.0014	.0047	.0004	-.0008

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	68059.	9796.2	2322.0	3613.9
Stddev	58.	10.5	4.3	9.9
%RSD	.08527	.10751	.18334	.27430

#1	68018.	9803.7	2319.0	3606.9
#2	68100.	9788.8	2325.0	3620.9

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Sample Name: mp80402-lc1 Acquired: 7/1/2014 17:44:03 Type: Unk
 Method: Accutest1(v35) 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	.4814	.4826	.4881	.4751	.4989	.4756	.4962	.4840	.1886
Stddev	.0017	.0009	.0008	.0019	.0011	.0005	.0002	.0013	.0001
%RSD	.3556	.1775	.1645	.4055	.2256	.1021	.0498	.2635	.0767

#1	.4826	.4832	.4887	.4765	.4981	.4753	.4964	.4849	.1887
#2	.4802	.4820	.4875	.4738	.4997	.4759	.4960	.4831	.1885

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.4862	.4854	.4813	.5396	.5002	.4951	.4828	4.837	5.593
Stddev	.0018	.0030	.0004	.0017	.0001	.0032	.0036	.009	.001
%RSD	.3732	.6274	.0749	.3088	.0262	.6394	.7405	.1810	.0216

#1	.4849	.4875	.4810	.5408	.5003	.4929	.4853	4.843	5.592
#2	.4875	.4832	.4815	.5384	.5001	.4974	.4803	4.831	5.594

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	5.523	5.160	9.506	9.763	.0103	.5022	-.0003	.0431	.0022
Stddev	.002	.002	.025	.047	.0002	.0017	.0003	.0002	.0004
%RSD	.0377	.0351	.2675	.4782	1.851	.3352	100.6	.3521	20.27

#1	5.525	5.159	9.524	9.796	.0105	.5034	-.0006	.0430	.0025
#2	5.522	5.161	9.488	9.730	.0102	.5010	-.0001	.0432	.0019

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Avg	-.0001	.4908	-.0188	.0014	.0083	-.0003	-.0001
Stddev	.0001	.0012	.0005	.0000	.0001	.0001	.0005
%RSD	151.2	.2545	2.677	1.304	1.242	49.73	406.5

#1	-.0001	.4917	.0191	.0014	.0084	-.0004	-.0005
#2	.0000	.4899	.0184	.0014	.0082	-.0002	.0003

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	66979.	9701.5	2298.3	3482.2
Stddev	84.	16.8	13.8	19.3
%RSD	.12517	.17328	.60128	.55282

#1	66919.	9713.4	2288.5	3468.6
#2	67038.	9689.6	2308.1	3495.8

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Sample Name: mp80402-s1 Acquired: 7/1/2014 17:49:57 Type: Unk
Method: Accutest1(v35) 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	2.468	.0530	.0558	.5318	.2088	.2587	4.354	.5306	.0568
Stddev	.004	.0003	.0002	.0003	.0000	.0008	.005	.0007	.0000
%RSD	.1494	.5810	.3344	.0630	.0192	.3028	.1192	.1385	.0108
#1	2.465	.0528	.0557	.5316	.2088	.2581	4.358	.5301	.0568
#2	2.470	.0532	.0560	.5321	.2088	.2592	4.351	.5311	.0568
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.5215	.5143	2.285	2.252	.5499	2.247	.5563	2.128	161.5
Stddev	.0002	.0002	.003	.002	.0019	.004	.0002	.014	.5
%RSD	.0303	.0401	.1166	.0915	.3382	.1607	.0408	.6784	.3087
#1	.5213	.5142	2.287	2.250	.5512	2.249	.5562	2.138	161.1
#2	.5216	.5145	2.283	2.253	.5486	2.244	.5565	2.117	161.8
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	21.15	54.14	46.09	33.48	2.349	2.125	1.815	15.55	2.097
Stddev	.05	.20	.06	.01	.001	.003	.007	.00	.002
%RSD	.2279	.3647	.1193	.0265	.0499	.1352	.3937	.0200	.0802
#1	21.12	54.00	46.05	33.48	2.350	2.123	1.820	15.55	2.098
#2	21.18	54.28	46.13	33.47	2.348	2.127	1.810	15.55	2.096
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	2.581	2.101	.0395	-.0069	.1323	.0058	.0104		
Stddev	.004	.003	.0012	.0001	.0034	.0000	.0001		
%RSD	.1389	.1243	3.041	1.376	2.591	.2034	1.017		
#1	2.578	2.103	.0404	-.0069	.1347	.0058	.0103		
#2	2.583	2.099	.0387	-.0070	.1299	.0058	.0104		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	63522.	9510.6	2125.8	3004.5					
Stddev	17.	36.5	1.5	3.4					
%RSD	.02737	.38422	.07209	.11322					
#1	63510.	9536.4	2126.9	3006.9					
#2	63534.	9484.7	2124.7	3002.1					

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Sample Name: mp80402-s2 Acquired: 7/1/2014 17:55:44 Type: Unk
Method: Accutest1(v35) 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	2.402	.0524	.0545	.5212	.2063	.2534	4.143	.5211	.0554
Stddev	.002	.0001	.0004	.0010	.0004	.0012	.009	.0019	.0005
%RSD	.0714	.1614	.6899	.1884	.1737	.4631	.2232	.3565	.9620
#1	2.403	.0523	.0547	.5219	.2061	.2526	4.150	.5225	.0550
#2	2.400	.0524	.0542	.5205	.2066	.2542	4.137	.5198	.0558
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.5127	.5066	2.234	2.212	.5385	2.198	.5428	2.103	153.9
Stddev	.0009	.0006	.008	.008	.0005	.003	.0029	.002	.4
%RSD	.1712	.1144	.3490	.3445	.0944	.1450	.5305	.1115	.2316
#1	.5133	.5070	2.239	2.217	.5388	2.201	.5449	2.101	153.6
#2	.5121	.5062	2.228	2.206	.5381	2.196	.5408	2.104	154.1
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	20.09	52.00	44.31	32.45	2.296	2.084	1.772	14.70	2.059
Stddev	.05	.04	.06	.00	.006	.005	.005	.05	.004
%RSD	.2346	.0857	.1439	.0115	.2679	.2518	.2847	.3337	.1773
#1	20.05	51.97	44.36	32.45	2.300	2.088	1.769	14.73	2.062
#2	20.12	52.03	44.27	32.45	2.292	2.080	1.776	14.66	2.057
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	2.515	2.067	.0349	-.0089	.1272	.0042	.0088		
Stddev	.003	.002	.0001	.0001	.0020	.0002	.0003		
%RSD	.1036	.1115	.2708	1.174	1.602	4.333	3.293		
#1	2.513	2.069	.0348	-.0089	.1287	.0041	.0086		
#2	2.516	2.066	.0350	-.0090	.1258	.0043	.0090		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	64072.	9536.3	2158.5	3048.8					
Stddev	159.	8.9	4.7	7.3					
%RSD	.24856	.09366	.21550	.23950					
#1	63960.	9542.6	2155.2	3043.6					
#2	64185.	9530.0	2161.8	3054.0					

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Sample Name: jb70173-1f Acquired: 7/1/2014 18:01:32 Type: Unk
Method: Accutest1(v35) 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	.4223	.0002	.0003	.0036	.0014	.0001	3.882	.0020	.0019
Stddev	.0008	.0000	.0002	.0002	.0004	.0005	.009	.0000	.0004
%RSD	.1787	18.18	57.11	5.814	25.72	451.1	.2229	2.234	18.69
#1	.4228	.0002	.0005	.0038	.0012	.0004	3.889	.0020	.0021
#2	.4217	.0001	.0002	.0035	.0017	-.0002	3.876	.0020	.0016
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0025	.0143	.1016	-.0001	.0013	.0045	.0013	.0603	136.7
Stddev	.0002	.0000	.0006	.0019	.0008	.0019	.0003	.0024	.1
%RSD	9.436	.1502	.5833	3518.	62.93	41.99	21.58	4.057	.0983
#1	.0027	.0143	.1021	-.0014	.0007	.0032	.0015	.0585	136.6
#2	.0023	.0143	.1012	.0013	.0019	.0058	.0011	.0620	136.8
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	20.13	28.26	19.00	6.191	.1733	.0016	.0085	13.28	-.0023
Stddev	.00	.07	.04	.002	.0005	.0006	.0004	.03	.0006
%RSD	.0124	.2354	.2249	.0254	.3125	35.11	4.258	.2369	26.20
#1	20.13	28.21	18.97	6.190	.1737	.0021	.0082	13.30	-.0018
#2	20.12	28.31	19.03	6.192	.1729	.0012	.0087	13.26	-.0027
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.5185	.0009	.0088	-.0110	.1277	.0010	.0095		
Stddev	.0006	.0001	.0007	.0000	.0002	.0002	.0011		
%RSD	.1183	13.13	7.408	.3600	.1809	18.41	11.74		
#1	.5189	.0008	.0093	-.0110	.1276	.0011	.0087		
#2	.5180	.0010	.0084	-.0110	.1279	.0008	.0103		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	64722.	9610.1	2192.5	3168.4					
Stddev	213.	29.4	.7	2.0					
%RSD	.32888	.30547	.03172	.06267					
#1	64873.	9630.9	2193.0	3167.0					
#2	64572.	9589.3	2192.0	3169.9					

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Sample Name: mp80402-sd1 Acquired: 7/1/2014 18:07:33 Type: Unk
Method: Accutest1(v35) 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	.4147	.0001	.0002	.0034	.0030	-.0013	3.908	.0037	.0023
Stddev	.0070	.0001	.0002	.0016	.0003	.0007	.028	.0003	.0007
%RSD	1.696	79.50	77.83	46.84	9.591	50.35	.7172	8.259	31.41
#1	.4196	.0001	.0001	.0022	.0032	-.0018	3.888	.0039	.0028
#2	.4097	.0002	.0004	.0045	.0028	-.0009	3.928	.0035	.0018
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0009	.0400	.1002	-.0021	-.0029	.0082	-.0015	.0432	136.2
Stddev	.0013	.0005	.0090	.0022	.0046	.0153	.0042	.0276	2.8
%RSD	143.2	1.142	8.983	104.5	161.2	187.3	279.9	64.05	2.023
#1	.0019	.0404	.1066	-.0037	-.0061	.0190	-.0045	.0236	138.1
#2	-.0000	.0397	.0939	-.0005	.0004	-.0026	.0015	.0627	134.2
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	20.04	28.22	18.20	5.888	.1731	.0032	.0091	12.94	-.0045
Stddev	.43	.58	.61	.111	.0006	.0003	.0019	.09	.0020
%RSD	2.129	2.063	3.330	1.878	.3317	9.842	20.56	.6603	45.55
#1	20.34	28.63	18.62	5.977	.1735	.0034	.0104	13.00	-.0030
#2	19.74	27.81	17.77	5.820	.1727	.0030	.0077	12.88	-.0059
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.5111	.0026	-.0034	-.0101	.1323	-.0035	.0060		
Stddev	.0107	.0009	.0002	.0001	.0065	.0038	.0004		
%RSD	2.096	33.53	5.140	1.229	4.893	109.1	6.769		
#1	.5186	.0020	-.0033	-.0102	.1369	-.0061	.0057		
#2	.5035	.0032	-.0035	-.0100	.1277	-.0008	.0063		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	68125.	9711.7	2293.6	3457.3					
Stddev	373.	145.1	8.8	15.0					
%RSD	.54684	1.4942	.38585	.43345					
#1	68389.	9609.0	2287.3	3446.7					
#2	67862.	9814.3	2299.8	3467.9					

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Sample Name: jb68722-1ab Acquired: 7/1/2014 18:13:34 Type: Unk
Method: Accutest1(v35) 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	.5139	.0002	.0004	.0092	1.159	.0034	.0305	.1545	.0071
Stddev	.0012	.0001	.0000	.0003	.008	.0003	.0001	.0002	.0004
%RSD	.2337	40.08	11.60	3.535	.6859	8.948	.2475	.1191	5.913
#1	.5131	.0002	.0004	.0090	1.153	.0036	.0304	.1547	.0074
#2	.5148	.0003	.0004	.0094	1.165	.0031	.0306	.1544	.0068
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.1052	.0046	.0172	.0311	.0021	.0084	.0092	.4158	885.5
Stddev	.0008	.0000	.0004	.0010	.0014	.0026	.0003	.0110	1.4
%RSD	.7548	.4535	2.404	3.091	63.80	30.72	3.084	2.636	.1598
#1	.1047	.0046	.0174	.0318	.0012	.0066	.0090	.4081	886.5
#2	.1058	.0045	.0169	.0304	.0031	.0102	.0094	.4236	884.5
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.4804	41.07	244.2	372.1	.3773	.1041	.0151	8.305	.0029
Stddev	.0051	.08	.1	1.8	.0001	.0008	.0003	.021	.0004
%RSD	1.052	.1919	.0594	.4914	.0370	.8078	1.919	2518	14.82
#1	.4839	41.13	244.1	373.4	.3772	.1046	.0149	8.320	.0032
#2	.4768	41.01	244.3	370.8	.3774	.1035	.0153	8.291	.0026
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	4.725	.1700	-.0505	.0043	103.1	.0092	.0224		
Stddev	.009	.0004	.0010	.0000	.0	.0008	.0006		
%RSD	.1987	.2123	1.954	.0453	.0419	9.161	2.576		
#1	4.718	.1702	-.0512	.0043	103.2	.0086	.0220		
#2	4.732	.1697	-.0498	.0043	103.1	.0098	.0228		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	56020.	9204.7	1839.9	2554.7					
Stddev	103.	38.2	6.6	9.6					
%RSD	.18418	.41470	.36118	.37468					
#1	56093.	9177.7	1835.2	2547.9					
#2	55947.	9231.7	1844.6	2561.5					

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Sample Name: jb68722-2ab Acquired: 7/1/2014 18:19:43 Type: Unk
Method: Accutest1(v35) 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	.0300	.0001	.0002	.0008	.0033	.0010	.0025	.0823	.0012
Stddev	.0000	.0001	.0001	.0001	.0000	.0001	.0000	.0005	.0004
%RSD	.0835	192.4	29.10	7.671	.4913	10.08	1.428	.6550	37.09
#1	.0300	-.0000	.0002	.0009	.0033	.0010	.0024	.0826	.0009
#2	.0301	.0002	.0002	.0008	.0033	.0009	.0025	.0819	.0015
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0170	.0068	.0123	.0038	.0014	.0042	.0047	.7720	119.3
Stddev	.0002	.0001	.0010	.0003	.0005	.0000	.0001	.0041	.4
%RSD	1.282	1.022	8.222	8.627	35.17	.2290	1.187	.5306	.2966
#1	.0171	.0067	.0130	.0040	.0010	.0042	.0047	.7691	119.1
#2	.0168	.0068	.0115	.0036	.0017	.0042	.0048	.7749	119.6
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.2659	.0836	55.12	258.7	.0579	.1591	.0254	12.43	-.0019
Stddev	.0012	.0097	.21	3.9	.0001	.0000	.0009	.00	.0006
%RSD	.4653	11.56	.3833	1.507	.1973	.0282	3.723	.0085	30.68
#1	.2650	.0768	55.27	255.9	.0580	.1591	.0260	12.43	-.0024
#2	.2668	.0905	54.97	261.4	.0578	.1591	.0247	12.43	-.0015
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.7619	.0178	.1017	-.0139	90.43	.0005	.0003		
Stddev	.0004	.0006	.0004	.0001	.04	.0001	.0002		
%RSD	.0480	3.110	.3583	.6589	.0459	23.01	83.47		
#1	.7616	.0182	.1015	-.0138	90.40	.0006	.0005		
#2	.7621	.0174	.1020	-.0140	90.46	.0004	.0001		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	62944.	9562.1	2089.0	2975.0					
Stddev	765.	15.2	1.6	7.5					
%RSD	1.2156	.15913	.07554	.25125					
#1	62403.	9572.8	2087.9	2969.8					
#2	63485.	9551.3	2090.1	2980.3					

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◀ Zoom In ▶
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Sample Name: ccv Acquired: 7/1/2014 18:25:51 Type: QC
Method: Accutest1(v35) 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	1.959	1.977	2.002	2.026	2.033	1.936	2.023	2.039	2.441
Stddev	.002	.002	.007	.002	.007	.001	.005	.001	.0002
%RSD	.1080	.0876	.3668	.1087	.3430	.0237	.2497	.0349	.0676
#1	1.958	1.978	1.996	2.024	2.037	1.935	2.027	2.039	2.440
#2	1.961	1.976	2.007	2.027	2.028	1.936	2.019	2.040	2.442
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	1.998	1.972	2.108	2.061	1.989	2.012	39.43	39.60
Stddev	.005	.003	.009	.005	.002	.010	.011	.08	.05
%RSD	.2523	.1594	.4518	.2324	.0915	.4833	.5449	.2015	.1265
#1	2.006	1.996	1.966	2.105	2.060	1.982	2.004	39.48	39.64
#2	1.999	2.000	1.979	2.112	2.062	1.995	2.019	39.37	39.57
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	39.58	39.03	39.19	39.56	1.998	2.029	2.005	5.051	2.061
Stddev	.06	.06	.08	.03	.006	.008	.003	.019	.006
%RSD	.1389	.1526	.1935	.0720	.2945	.4006	.1531	.3785	.3135
#1	39.61	39.08	39.14	39.54	1.994	2.023	2.008	5.037	2.057
#2	39.54	38.99	39.25	39.58	2.002	2.035	2.003	5.064	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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◀ Zoom In ▶
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Sample Name: ccv Acquired: 7/1/2014 18:25:51 Type: QC
Method: Accutest1(v35) 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	1.973	1.986	1.872	2.003	1.954	2.048	1.967		
Stddev	.001	.006	.011	.003	.012	.013	.005		
%RSD	.0688	.2841	.5739	.1502	.6255	.6398	.2566		
#1	1.972	1.990	1.865	2.005	1.946	2.039	1.964		
#2	1.974	1.982	1.880	2.001	1.963	2.057	1.971		
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	64634.	9519.4	2216.1	3170.8					
Stddev	138.	28.9	6.1	3.7					
%RSD	.21418	.30393	.27709	.11635					
#1	64536.	9499.0	2220.5	3173.4					
#2	64732.	9539.9	2211.8	3168.2					

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Sample Name: ccb Acquired: 7/1/2014 18:31:41 Type: QC
 Method: Accutest1(v35) 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	.0000	.0001	.0003	.0006	.0001	.0004	.0001
Stddev	.0002	.0001	.0002	.0002	.0003	.0000	.0000	.0001	.0004
%RSD	52.34	90.88	479.1	159.2	100.6	4.412	1.542	13.14	336.0

#1	.0003	.0000	-.0001	.0002	.0001	-.0006	.0001	.0004	-.0004
#2	.0006	.0002	.0001	-.0000	.0005	-.0006	.0001	.0005	.0002

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	-.0001	-.0001	.0003	.0015	-.0003	-.0003	.0001	-.0005	.0048
Stddev	.0003	.0001	.0009	.0001	.0001	.0012	.0005	.0011	.0003
%RSD	321.4	74.73	318.7	8.006	32.16	474.8	386.4	233.7	5.401

#1	-.0003	-.0000	-.0003	.0015	-.0002	.0006	.0004	.0003	.0050
#2	.0001	-.0001	.0009	.0014	-.0004	-.0011	-.0002	-.0012	.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	.0035	.0123	.0366	.0164	.0014	.0021	.0006	.0004	.0002
Stddev	.0024	.0242	.0210	.0071	.0002	.0002	.0003	.0001	.0005
%RSD	68.29	196.3	57.36	43.51	15.90	10.24	46.97	37.73	212.6

#1	.0018	-.0048	.0217	.0114	.0015	.0022	.0009	.0005	.0006
#2	.0052	.0294	.0514	.0215	.0012	.0019	.0004	.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

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Sample Name: ccb Acquired: 7/1/2014 18:31:41 Type: QC
 Method: Accutest1(v35) 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	.0024	.0006	.0017	.0018	-.0007
Stddev	.0001	.0004	.0007	.0000	.0012	.0012	.0002
%RSD	139.2	78.68	29.90	2.045	68.96	65.10	32.35

#1	.0000	.0002	.0029	.0006	.0009	.0027	-.0005
#2	.0002	.0008	.0019	.0006	.0025	.0010	-.0008

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	67815.	9604.5	2351.8	3609.9
Stddev	70.	54.8	15.1	23.2
%RSD	.10311	.57086	.64080	.64347

#1	67865.	9643.3	2341.1	3593.5
#2	67766.	9565.7	2362.4	3626.4

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Sample Name: j68722-3ab Acquired: 7/1/2014 18:37:47 Type: Unk
 Method: Accutest1(v35) 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	.4099	.0032	.0023	.1752	11.14	.0657	21.54	.2666	.0048
Stddev	.0003	.0001	.0004	.0002	.02	.0001	.10	.0010	.0005
%RSD	.0740	3.505	18.70	.1169	.1784	.2083	.4488	.3938	10.31

#1	.4102	.0033	.0026	.1750	11.16	.0658	21.47	.2659	.0045
#2	.4097	.0031	.0020	.1753	11.13	.0656	21.61	.2674	.0051

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1265	.2544	.0369	.0877	.0325	.0244	-.0016	5.672	414.6
Stddev	.0004	.0020	.0021	.0009	.0014	.0024	.0029	.006	.1
%RSD	.3251	.7816	5.621	1.060	4.289	9.762	180.9	.1073	.0322

#1	.1262	.2530	.0354	.0884	.0315	.0261	-.0037	5.667	414.7
#2	.1268	.2558	.0384	.0870	.0334	.0227	.0005	5.676	414.5

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	102.2	106.9	374.1	196.8	.2300	.0078	.0260	33.52	-.0017
Stddev	.1	.1	.3	.8	.0005	.0000	.0002	.01	.0008
%RSD	.0772	.0768	.0719	.4083	.2011	.0482	.6324	.0164	48.53

#1	102.1	106.9	374.2	196.3	.2297	.0078	.0259	33.53	-.0011
#2	102.2	107.0	373.9	197.4	.2303	.0078	.0261	33.52	-.0022

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.175	.4313	.0030	.0071	81.95	.0280	.0421
Stddev	.001	.0009	.0003	.0007	.15	.0005	.0003
%RSD	.0560	.2096	8.736	9.982	.1816	1.949	.6022

#1	1.175	.4320	.0032	.0076	81.85	.0284	.0423
#2	1.176	.4307	.0028	.0066	82.06	.0276	.0419

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	62204.	9965.6	2014.0	2731.8
Stddev	41.	18.4	2.8	2.1
%RSD	.06667	.18511	.13662	.07850

#1	62174.	9978.6	2015.9	2733.3
#2	62233.	9952.5	2012.0	2730.3

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Sample Name: j68722-4ab Acquired: 7/1/2014 18:44:02 Type: Unk
 Method: Accutest1(v35) 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	.6579	.0006	.0006	.0157	1.643	.0078	5.015	.0849	.0077
Stddev	.0007	.0001	.0001	.0001	.008	.0001	.010	.0004	.0002
%RSD	.1041	14.60	19.93	.6540	.4671	1.024	.2078	.5288	2.574

#1	.6584	.0005	.0007	.0157	1.637	.0079	5.007	.0846	.0076
#2	.6574	.0007	.0006	.0156	1.648	.0078	5.022	.0852	.0079

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0717	.0145	.0132	.0849	.0121	.0175	.0038	1.726	1021.
Stddev	.0000	.0002	.0009	.0019	.0014	.0000	.0001	.009	.2
%RSD	.0438	1.113	6.983	2.251	11.68	.1240	1.992	.5245	.2416

#1	.0717	.0147	.0139	.0836	.0131	.0175	.0038	1.733	1023.
#2	.0717	.0144	.0126	.0863	.0111	.0175	.0039	1.720	1019.

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	49.96	104.6	464.5	329.0	.5138	.0076	.0053	20.53	.0010
Stddev	.04	.0	.8	1.0	.0034	.0004	.0026	.20	.0005
%RSD	.0880	.0208	.1667	.2964	.6628	5.662	49.28	.9704	50.84

#1	50.00	104.6	465.0	328.3	.5162	.0079	.0071	20.67	.0014
#2	49.93	104.6	463.9	329.7	.5114	.0073	.0034	20.39	.0007

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.870	.3433	-.0982	-.0026	13.26	.0157	.0455
Stddev	.013	.0011	.0009	.0003	.09	.0030	.0003
%RSD	.2651	.3252	.9656	10.47	.6532	19.24	.6823

#1	4.880	.3425	-.0975	-.0028	13.32	.0178	.0453
#2	4.861	.3441	-.0989	-.0024	13.20	.0135	.0458

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	56231.	9116.5	1845.5	2505.9
Stddev	89.	25.8	14.7	13.5
%RSD	.15819	.28252	.79673	.53855

#1	56168.	9134.7	1835.1	2496.4
#2	56294.	9098.3	1855.9	2515.5

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Sample Name: jb68722-5ab Acquired: 7/1/2014 18:50:11 Type: Unk
Method: Accutest1(v35) 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	.6775	.0008	.0010	.0341	.4545	.0192	6.163	.2082	.0070
Stddev	.0010	.0000	.0001	.0002	.0003	.0002	.009	.0001	.0004
%RSD	.1501	1.717	8.612	.5832	.0768	.7897	.1476	.0398	5.885
#1	.6782	.0008	.0010	.0343	.4542	.0191	6.157	.2082	.0073
#2	.6768	.0008	.0009	.0340	.4547	.0193	6.170	.2083	.0068
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0800	.0520	.0161	.1344	.0287	.0166	.0057	2.884	1025.
Stddev	.0000	.0000	.0002	.0011	.0006	.0023	.0011	.024	7.
%RSD	.0457	.0348	1.169	.7960	1.987	13.87	19.87	.8462	.7284
#1	.0800	.0520	.0162	.1337	.0291	.0149	.0065	2.901	1020.
#2	.0800	.0521	.0159	.1352	.0283	.0182	.0049	2.866	1030.
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	68.43	136.8	649.3	213.4	4.237	.0106	.0052	21.43	.0058
Stddev	.10	.5	8.7	2.5	.0013	.0003	.0008	.02	.0002
%RSD	.1500	.3739	1.335	1.186	.3048	2.377	15.15	.0860	3.096
#1	68.35	136.5	643.2	215.2	.4228	.0104	.0046	21.41	.0059
#2	68.50	137.2	655.4	211.6	.4246	.0108	.0057	21.44	.0057
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	4.519	.6094	-.0998	-.0098	25.22	.0189	.0040		
Stddev	.003	.0006	.0002	.0002	.03	.0014	.0004		
%RSD	.0651	.0955	.1573	1.878	.1302	7.240	.2595		
#1	4.521	.6090	-.0997	-.0097	25.20	.0179	.0642		
#2	4.517	.6098	-.0999	-.0099	25.25	.0198	.0639		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	56246.	9195.0	1844.0	2487.8					
Stddev	59.	46.3	.2	1.7					
%RSD	.10477	.50402	.01234	.06729					
#1	56205.	9227.7	1843.9	2486.6					
#2	56288.	9162.2	1844.2	2488.9					

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Sample Name: jb68722-6ab Acquired: 7/1/2014 18:56:23 Type: Unk
Method: Accutest1(v35) 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	.3557	.0003	.0005	.0083	.1324	.0028	.5653	.0491	.0057
Stddev	.0003	.0001	.0002	.0001	.0000	.0000	.0009	.0001	.0006
%RSD	.0984	32.87	40.43	.7609	.0352	.4595	.1562	.2028	11.37
#1	.3554	.0004	.0006	.0083	.1324	.0027	.5660	.0491	.0053
#2	.3559	.0003	.0003	.0083	.1323	.0028	.5647	.0492	.0062
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0985	.0059	.0139	.0224	.0017	.0103	.0026	.3319	700.5
Stddev	.0007	.0002	.0018	.0009	.0010	.0013	.0023	.0092	1.9
%RSD	.7030	3.777	12.67	3.936	62.33	12.66	89.03	2.780	.2769
#1	.0980	.0057	.0151	.0230	.0009	.0094	.0010	.3385	699.1
#2	.0990	.0060	.0126	.0218	.0024	.0113	.0043	.3254	701.9
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.6211	30.62	187.6	506.1	.3315	.0316	.0031	8.160	.0027
Stddev	.0051	.14	.4	5.2	.0010	.0000	.0015	.013	.0006
%RSD	.8287	.4495	.2338	1.028	.2917	.0476	47.41	.1626	23.43
#1	.6248	30.52	187.9	502.4	.3322	.0316	.0021	8.169	.0022
#2	.6175	30.72	187.3	509.7	.3308	.0316	.0041	8.150	.0031
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	4.018	.2354	-.0657	.0055	26.00	.0071	.0128		
Stddev	.005	.0002	.0012	.0001	.06	.0004	.0005		
%RSD	.1177	.0950	1.895	2.314	.2236	5.369	3.527		
#1	4.021	.2355	-.0648	.0056	26.04	.0073	.0131		
#2	4.014	.2352	-.0665	.0054	25.96	.0068	.0125		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	56931.	9234.5	1884.7	2579.4					
Stddev	35.	32.9	4.3	3.5					
%RSD	.06227	.35597	.22631	.13410					
#1	56956.	9257.8	1881.7	2577.0					
#2	56906.	9211.3	1887.7	2581.9					

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Sample Name: jb68722-7ab Acquired: 7/1/2014 19:02:33 Type: Unk
Method: Accutest1(v35) 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	.0193	.0001	.0002	.0005	.0017	.0002	.0003	.0399	.0006
Stddev	.0000	.0000	.0001	.0002	.0004	.0007	.0000	.0006	.0003
%RSD	.0117	.1910	75.69	48.61	24.15	366.8	5.813	1.476	42.49
#1	.0193	.0001	.0002	.0003	.0020	.0007	.0003	.0403	.0004
#2	.0193	.0001	.0001	.0006	.0014	-.0003	.0003	.0395	.0008
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0510	.0080	.0110	.0016	.0020	.0022	.0027	.9288	90.76
Stddev	.0000	.0001	.0011	.0002	.0010	.0014	.0001	.0106	.48
%RSD	.0366	.7286	10.35	13.36	51.22	65.04	2.273	1.147	.5243
#1	.0510	.0081	.0118	.0018	.0013	.0032	.0027	.9363	91.09
#2	.0510	.0080	.0102	.0015	.0027	.0012	.0028	.9212	90.42
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	1150.	4049	47.84	254.1	.0689	.1531	.0281	15.66	-.0027
Stddev	.0040	.0279	.01	1.3	.0005	.0010	.0007	.11	.0001
%RSD	3.443	56.43	.0194	.7210	.7042	.6218	2.622	.7093	1.897
#1	.1122	.0297	47.85	252.8	.0672	.1538	.0266	15.73	-.0028
#2	.1178	.0691	47.84	255.4	.0665	.1525	.0256	15.58	-.0027
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.6519	.0048	-.1386	-.0158	69.62	-.0014	.0006		
Stddev	.0017	.0001	.0014	.0002	.46	.0001	.0013		
%RSD	.2534	1.275	.9749	1.316	.6631	6.866	207.0		
#1	.6530	.0049	.1395	-.0160	69.94	-.0015	-.0003		
#2	.6507	.0048	.1376	-.0157	69.29	-.0013	.0015		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	63057.	9631.8	2149.7	3048.4					
Stddev	171.	6.3	11.4	15.6					
%RSD	.27137	.06561	.52867	.51185					
#1	62936.	9627.3	2141.6	3037.4					
#2	63178.	9636.2	2157.7	3059.4					

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Sample Name: jb68722-8ab Acquired: 7/1/2014 19:08:38 Type: Unk
Method: Accutest1(v35) 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	.6611	.0009	.0008	.0253	.7845	.0380	5.542	.1498	.0080
Stddev	.0010	.0000	.0000	.0004	.0003	.0005	.001	.0008	.0005
%RSD	.1548	1.456	6.086	1.491	.0336	1.184	.0204	.5548	6.812
#1	.6604	.0009	.0008	.0256	.7847	.0377	5.543	.1504	.0076
#2	.6618	.0009	.0008	.0251	.7843	.0384	5.542	.1492	.0084
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0885	.0371	.0165	.0957	.0254	.0187	.0048	3.802	1084.
Stddev	.0001	.0000	.0009	.0011	.0004	.0007	.0010	.000	3.
%RSD	.0881	.0311	5.162	1.180	1.583	3.670	20.99	.0102	.2669
#1	.0886	.0371	.0171	.0965	.0251	.0192	.0041	3.801	1081.
#2	.0885	.0371	.0159	.0949	.0257	.0182	.0055	3.802	1086.
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	60.27	107.6	502.1	193.4	4609	.0129	.0037	20.52	.0060
Stddev	.16	.2	6.1	.9	.0003	.0000	.0005	.08	.0003
%RSD	.2599	.1928	1.209	.4457	.0750	.3061	12.81	.3943	4.499
#1	60.38	107.8	506.3	192.7	.4607	.0129	.0040	20.58	.0062
#2	60.16	107.5	497.8	194.0	.4612	.0129	.0033	20.46	.0058
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	4.867	.6405	-.1101	-.0133	13.26	.0178	.0484		
Stddev	.007	.0001	.0014	.0003	.05	.0005	.0002		
%RSD	.1458	.0079	1.259	2.331	.3924	3.036	.4027		
#1	4.872	.6406	-.1091	-.0131	13.29	.0175	.0486		
#2	4.862	.6405	-.1111	-.0136	13.22	.0182	.0483		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	56980.	9263.8	1869.2	2525.6					
Stddev	68.	4.2	2.9	1.9					
%RSD	.11928	.04505	.15518	.07461					
#1	57028.	9260.8	1867.2	2524.2					
#2	56932.	9266.7	1871.3	2526.9					

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Sample Name: jb68722-9ab Acquired: 7/1/2014 19:14:51 Type: Unk
Method: Accutest1(v35) 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	.0239	.0000	.0002	.0007	.0124	.0010	.0038	.0459	.0009
Stddev	.0001	.0001	.0001	.0003	.0003	.0000	.0000	.0004	.0003
%RSD	.3135	.213.9	.43.47	.38.57	.2.087	.2.930	.2722	.8821	.28.41
#1	.0240	-.0000	.0002	.0005	.0122	.0011	.0038	.0462	.0008
#2	.0239	.0001	.0001	.0009	.0126	.0010	.0038	.0456	.0011
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0494	.0043	.0098	.0030	.0026	.0030	.0010	1.127	102.9
Stddev	.0004	.0000	.0006	.0002	.0010	.0014	.0011	.000	.6
%RSD	.7998	.1861	6.289	5.242	38.21	47.41	114.5	.0260	.5982
#1	.0491	.0043	.0093	.0029	.0032	.0020	.0017	1.127	103.4
#2	.0497	.0042	.0102	.0031	.0019	.0040	.0002	1.127	102.5
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.4742	.1390	42.73	213.8	.0534	.1351	.0271	15.46	-.0021
Stddev	.0008	.0043	.13	.3	.0006	.0004	.0006	.04	.0001
%RSD	.1749	3.099	.2960	.1557	1.065	.3026	2.148	.2358	3.551
#1	.4748	.1420	42.82	213.5	.0530	.1354	.0275	15.49	-.0020
#2	.4736	.1359	42.64	214.0	.0538	.1348	.0267	15.44	-.0021
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.6541	.0306	.0937	-.0161	83.33	-.0003	.0006		
Stddev	.0027	.0002	.0004	.0000	.05	.0002	.0004		
%RSD	.4201	.7629	.4432	.0514	.0578	73.23	63.85		
#1	.6560	.0308	.0940	-.0161	83.36	-.0005	.0004		
#2	.6522	.0305	.0934	-.0161	83.30	-.0002	.0009		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	63421.	9476.9	2148.7	3058.9					
Stddev	66.	42.5	12.2	12.4					
%RSD	.10369	.44891	.56547	.40530					
#1	63374.	9446.8	2140.1	3050.1					
#2	63467.	9506.9	2157.3	3067.7					

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Sample Name: jb68722-10ab Acquired: 7/1/2014 19:20:56 Type: Unk
Method: Accutest1(v35) 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	.0729	.0006	.0019	.0264	23.82	.0590	.2789	.0460	.0007
Stddev	.0003	.0001	.0002	.0003	.03	.0002	.0006	.0002	.0005
%RSD	.4674	.11.36	.12.61	.9536	.1056	.3853	.2251	.5261	.71.39
#1	.0726	.0005	.0020	.0263	23.81	.0589	.2784	.0458	.0010
#2	.0731	.0006	.0017	.0266	23.84	.0592	.2793	.0462	.0003
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0209	.0182	.0054	-.0002	.0039	-.0011	.0039	.0843	110.6
Stddev	.0000	.0002	.0007	.0003	.0007	.0019	.0031	.0018	.3
%RSD	.0892	1.336	12.49	159.0	16.88	177.1	79.02	2.177	.3091
#1	.0209	.0180	.0058	-.0000	.0034	.0003	.0061	.0856	110.3
#2	.0209	.0184	.0049	-.0004	.0043	-.0024	.0017	.0830	110.8
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0877	27.22	6.773	162.3	1.028	.0071	.0162	11.05	-.0033
Stddev	.0004	.16	.008	.3	.003	.0001	.0014	.05	.0009
%RSD	.4293	.5704	.1158	.1940	.3019	1.217	8.821	.4601	27.47
#1	.0874	27.11	6.767	162.1	1.030	.0071	.0172	11.09	-.0040
#2	.0880	27.33	6.778	162.5	1.026	.0072	.0152	11.02	-.0027
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.3829	.0054	.0051	-.0147	44.54	.0281	.0118		
Stddev	.0007	.0001	.0008	.0000	.14	.0003	.0003		
%RSD	.1832	1.564	14.86	.0674	.3139	.9531	2.296		
#1	.3824	.0054	.0057	-.0147	44.64	.0283	.0116		
#2	.3834	.0053	.0046	-.0146	44.44	.0279	.0120		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	63443.	9493.9	2038.8	3035.3					
Stddev	112.	13.5	8.9	9.8					
%RSD	.17609	.14215	.43773	.32362					
#1	63522.	9503.5	2032.5	3028.4					
#2	63364.	9484.4	2045.1	3042.3					

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Sample Name: jb68722-11ab Acquired: 7/1/2014 19:27:00 Type: Unk
Method: Accutest1(v35) 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	.0207	.0001	.0001	.0020	2.107	.0085	.0083	.1353	.0002
Stddev	.0001	.0000	.0001	.0001	.014	.0002	.0000	.0007	.0004
%RSD	.5046	.23.41	.41.56	5.611	.6820	1.816	.3895	.5174	201.3
#1	.0206	.0001	.0002	.0021	2.117	.0086	.0083	.1348	.0004
#2	.0207	.0002	.0001	.0019	2.097	.0084	.0083	.1358	-.0001
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0770	.0061	.0227	.0014	.0027	.0026	.0009	3.306	43.21
Stddev	.0003	.0002	.0006	.0003	.0006	.0006	.0005	.010	.11
%RSD	.3382	2.778	2.857	19.12	23.06	25.15	52.87	.2999	.2564
#1	.0768	.0062	.0223	.0016	.0031	.0021	.0006	3.313	43.29
#2	.0772	.0060	.0232	.0012	.0022	.0030	.0012	3.299	43.13
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.1760	.5460	34.79	509.5	.0566	.1247	.0257	11.82	-.0019
Stddev	.0027	.0132	.12	4.4	.0005	.0005	.0011	.03	.0006
%RSD	1.517	2.426	.3445	.8647	.9678	.3726	4.302	.2390	31.78
#1	.1741	.5554	34.70	512.6	.0562	.1243	.0265	11.90	-.0015
#2	.1779	.5367	34.87	506.4	.0569	.1250	.0250	11.94	-.0024
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.3512	.0103	.0928	-.0120	79.81	.0021	-.0001		
Stddev	.0004	.0004	.0011	.0001	.17	.0012	.0005		
%RSD	.1051	3.757	1.214	1.148	.2133	56.12	468.1		
#1	.3509	.0100	.0936	-.0120	79.69	.0030	-.0004		
#2	.3514	.0105	.0920	-.0119	79.93	.0013	.0002		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	61498.	9547.2	2110.0	2906.7					
Stddev	93.	20.5	3.1	5.3					
%RSD	.15191	.21491	.14616	.18139					
#1	61432.	9561.7	2112.1	2910.4					
#2	61564.	9532.7	2107.8	2903.0					

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Sample Name: ccv Acquired: 7/1/2014 19:33:06 Type: QC
Method: Accutest1(v35) 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	1.942	1.969	1.963	2.007	2.018	1.899	2.005	2.025	2.406
Stddev	.003	.001	.001	.000	.000	.000	.001	.001	.0004
%RSD	.1515	.0356	.0723	.0071	.0161	.0081	.0301	.0387	.1773
#1	1.944	1.969	1.964	2.007	2.018	1.899	2.005	2.026	.2403
#2	1.940	1.968	1.962	2.007	2.017	1.899	2.005	2.025	.2409
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	1.983	1.980	1.941	2.077	2.043	1.953	1.969	39.42	39.43
Stddev	.001	.000	.000	.001	.001	.003	.002	.04	.02
%RSD	.0357	.0027	.0106	.0511	.0297	.1612	.0847	.1002	.0457
#1	1.984	1.980	1.941	2.077	2.043	1.950	1.970	39.44	39.45
#2	1.983	1.980	1.941	2.078	2.042	1.955	1.967	39.39	39.42
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	39.17	38.88	39.06	39.34	1.965	2.010	1.972	4.950	2.038
Stddev	.04	.04	.06	.03	.001	.002	.002	.004	.004
%RSD	.0933	.1114	.1540	.0770	.0444	.1104	.0808	.0883	.1753
#1	39.19	38.85	39.10	39.31	1.965	2.011	1.973	4.953	2.035
#2	39.14	38.91	39.02	39.36	1.964	2.008	1.971	4.947	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: 7/1/2014 19:33:06 Type: QC							
Method: Accutest1(v35) 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	1.957	1.969	1.873	1.985	1.923	2.006	1.951
Stddev	.002	.000	.006	.001	.002	.000	.000
%RSD	.0935	.0164	.3067	.0262	.1058	.0023	.0193
#1	1.958	1.969	1.869	1.985	1.925	2.006	1.950
#2	1.956	1.969	1.877	1.985	1.922	2.006	1.951
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	65357.	9482.8	2251.4	3197.8			
Stddev	55.	9.6	4.2	3.7			
%RSD	.08451	.10170	.18736	.11665			
#1	65396.	9476.0	2248.4	3195.2			
#2	65318.	9489.6	2254.4	3200.5			

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Sample Name: ccb Acquired: 7/1/2014 19:38:56 Type: QC											
Method: Accutest1(v35) 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	.0002	.0001	.0003	.0005	.0005	.0001	.0003	.0002		
Stddev	.0001	.0000	.0000	.0002	.0000	.0004	.0001	.0004	.0001		
%RSD	18.20	9.689	34.20	68.41	3.953	81.66	56.35	126.4	63.63		
#1	.0003	.0002	.0001	.0005	.0005	.0002	.0001	.0000	.0002		
#2	.0004	.0002	.0002	.0002	.0005	.0008	.0002	.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											
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179		
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm		
Avg	.0001	.0000	.0004	.0005	.0002	.0007	.0009	.0030	.0029		
Stddev	.0000	.0001	.0004	.0015	.0001	.0021	.0006	.0009	.0024		
%RSD	3.002	165.2	117.1	298.1	61.64	285.9	71.30	30.26	82.20		
#1	.0001	.0000	.0001	.0016	.0001	.0007	.0004	.0037	.0012		
#2	.0001	.0001	.0007	.0006	.0003	.0022	.0013	.0024	.0046		
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	.0042	.0324	.1150	.0406	.0008	.0017	.0000	.0014	.0003		
Stddev	.0012	.0135	.0286	.0055	.0004	.0001	.0008	.0000	.0003		
%RSD	27.34	41.68	24.90	13.60	58.35	5.862	6576.	2.481	185.3		
#1	.0050	.0228	.1353	.0367	.0004	.0017	.0006	.0014	.0001		
#2	.0034	.0419	.0948	.0445	.0011	.0016	.0006	.0014	.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: ccb Acquired: 7/1/2014 19:38:56 Type: QC							
Method: Accutest1(v35) 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	.0052	.0008	.0038	.0012	.0010
Stddev	.0000	.0003	.0001	.0001	.0001	.0001	.0003
%RSD	19.16	59.77	1.261	14.13	2.864	8.147	34.85
#1	.0001	.0007	.0052	.0008	.0037	.0012	.0012
#2	.0001	.0003	.0053	.0007	.0038	.0013	.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	68518.	9577.9	2377.3	3622.7			
Stddev	161.	31.7	3.8	10.1			
%RSD	.23510	.33075	.16087	.27982			
#1	68632.	9600.3	2380.0	3629.9			
#2	68405.	9555.5	2374.6	3615.5			

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Sample Name: jb68722-12ab Acquired: 7/1/2014 19:45:01 Type: Unk											
Method: Accutest1(v35) 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	.2209	.0015	.0007	.0158	.1262	.0447	.4046	.0447	.0036		
Stddev	.0011	.0000	.0002	.0002	.0003	.0001	.0011	.0001	.0001		
%RSD	.4924	.3756	21.63	1.330	2.067	.1815	.2716	.1551	3.295		
#1	.2201	.0015	.0008	.0157	.1261	.0446	.4038	.0448	.0035		
#2	.2217	.0015	.0006	.0160	.1264	.0447	.4053	.0447	.0037		
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179		
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm		
Avg	.0657	.4682	.0064	.0026	.0244	.0152	.0022	.2116	.106.5		
Stddev	.0001	.0001	.0005	.0002	.0002	.0001	.0005	.0004	.0004		
%RSD	.0806	.0193	7.206	9.356	6.544	.7951	23.42	.1809	.3898		
#1	.0657	.4683	.0061	.0028	.0245	.0153	.0026	.2113	.106.8		
#2	.0658	.4682	.0067	.0025	.0243	.0151	.0019	.2119	.106.2		
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899		
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm		
Avg	35.59	16.11	33.39	121.3	.0873	.0326	.0480	38.57	.0063		
Stddev	.01	.13	.25	.7	.0007	.0003	.0001	.09	.0001		
%RSD	.0345	.7947	.7454	.6065	.7787	.8459	.1353	.2205	1.870		
#1	35.58	16.20	33.21	120.8	.0868	.0328	.0480	38.63	.0063		
#2	35.60	16.02	33.57	121.8	.0878	.0324	.0481	38.51	.0062		
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707				
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm				
Avg	.4513	2.472	.0335	.0268	.85.18	.0025	.0397				
Stddev	.0021	.007	.0001	.0007	.17	.0022	.0001				
%RSD	.4627	.2982	.3244	2.501	.2017	85.53	.2076				
#1	.4498	2.467	.0335	.0263	85.30	.0040	.0397				
#2	.4528	2.477	.0336	.0273	85.06	.0010	.0396				
Int. Std.	Y_3600	Y_3710	Y_2243	In2306							
Units	Cts/S	Cts/S	Cts/S	Cts/S							
Avg	65171.	9716.8	2212.8	3103.1							
Stddev	50.	26.1	1.9	2.9							
%RSD	.07640	.26851	.08550	.09242							
#1	65136.	9698.3	2211.4	3101.1							
#2	65206.	9735.2	2214.1	3105.1							

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Sample Name: jb68722-13ab Acquired: 7/1/2014 19:50:58 Type: Unk
Method: Accutest1(v35) 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	.0254	.0007	-.0004	-.0000	28.92	.0132	.0056	.1164	-.0001
Stddev	.0001	.0000	.0002	.0001	.07	.0004	.0001	.0002	.0004
%RSD	.5111	6.591	44.58	912.3	.2346	3.181	2.349	.2092	318.6
#1	.0253	.0007	-.0006	-.0001	28.87	.0129	.0057	.1162	.0002
#2	.0254	.0007	-.0003	.0001	28.97	.0135	.0055	.1166	-.0004
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.1968	-.0011	.0150	.0206	.0071	.0057	.0068	3.418	44.47
Stddev	.0001	.0001	.0010	.0006	.0015	.0008	.0004	.020	.07
%RSD	.0572	8.935	6.375	2.752	21.20	13.84	6.529	.5809	.1468
#1	.1969	-.0010	.0143	.0202	.0082	.0062	.0071	3.432	44.52
#2	.1967	-.0011	.0156	.0210	.0061	.0051	.0064	3.404	44.43
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.9266	.3302	101.3	500.4	.0375	.1750	.0474	20.98	-.0044
Stddev	.0052	.0231	.4	3.2	.0007	.0002	.0010	.02	.0005
%RSD	.5633	6.986	.3833	.6434	1.764	.1065	2.168	.0871	10.81
#1	.9229	.3139	101.6	502.7	.0380	.1749	.0467	20.99	-.0040
#2	.9302	.3465	101.0	498.1	.0370	.1752	.0482	20.96	-.0047
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.4711	.0630	.1001	-.0264	161.0	.0345	.0076		
Stddev	.0016	.0005	.0001	.0001	.1	.0001	.0002		
%RSD	.3378	.7628	.1327	.2812	.0325	.2195	2.869		
#1	.4722	.0634	.1000	-.0264	160.9	.0345	.0077		
#2	.4699	.0627	.1002	-.0265	161.0	.0346	.0074		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	61274.	9473.9	1974.9	2886.4					
Stddev	131.	38.3	1.0	2.0					
%RSD	.21298	.40436	.05307	.06773					
#1	61181.	9446.8	1975.7	2887.8					
#2	61366.	9501.0	1974.2	2885.0					

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Sample Name: jb68722-14ab Acquired: 7/1/2014 19:57:04 Type: Unk
Method: Accutest1(v35) 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	.0778	.0002	.0045	.1092	1.339	.0714	3.071	.0681	.0013
Stddev	.0002	.0002	.0001	.0004	.004	.0006	.008	.0000	.0000
%RSD	.3102	80.98	2.349	.3996	.2981	.7761	.2569	.0380	3.588
#1	.0776	.0004	.0045	.1089	1.342	.0710	3.077	.0681	.0014
#2	.0780	.0001	.0044	.1095	1.337	.0717	3.065	.0681	.0013
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0043	.0475	.0043	-.0030	.0106	.0058	.0000	.2961	130.7
Stddev	.0001	.0004	.0013	.0010	.0010	.0027	.0001	.0086	.1
%RSD	1.632	.8711	30.91	34.48	9.504	45.99	968.1	2.898	.0955
#1	.0044	.0472	.0052	-.0037	.0099	.0039	-.0001	.3021	130.8
#2	.0043	.0478	.0033	-.0023	.0113	.0077	.0001	.2900	130.6
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.4186	34.82	7.840	145.1	1.305	.0067	.0180	12.17	-.0023
Stddev	.0040	.06	.009	.1	.000	.0000	.0014	.00	.0007
%RSD	.9582	.1838	.1161	.0636	.0083	.2871	7.866	.0149	29.06
#1	.4214	34.78	7.846	145.1	1.305	.0067	.0170	12.17	-.0018
#2	.4157	34.87	7.833	145.2	1.305	.0067	.0190	12.17	-.0027
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.3267	.0138	-.0006	-.0114	50.27	.0024	.0164		
Stddev	.0001	.0004	.0001	.0001	.08	.0003	.0003		
%RSD	.0202	2.952	21.39	.7104	.1564	11.18	1.837		
#1	.3267	.0136	-.0006	-.0113	50.22	.0022	.0166		
#2	.3268	.0141	-.0005	-.0115	50.33	.0026	.0162		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	63314.	9400.6	2139.3	3056.0					
Stddev	219.	32.8	5.1	5.3					
%RSD	.34531	.34879	.23740	.17251					
#1	63159.	9377.4	2142.9	3059.7					
#2	63468.	9423.8	2135.7	3052.3					

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Sample Name: jb70173-2f Acquired: 7/1/2014 20:03:01 Type: Unk
Method: Accutest1(v35) 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	.7566	.0000	.0002	.0001	.0018	.0003	.0196	.0004	.0005
Stddev	.0006	.0001	.0001	.0001	.0001	.0001	.0001	.0001	.0004
%RSD	.0801	315.4	44.84	116.9	4.602	30.75	.3764	14.05	84.92
#1	.7562	-.0001	.0003	.0002	.0018	.0002	.0195	.0005	.0002
#2	.7571	.0001	.0001	.0000	.0017	.0004	.0196	.0004	.0008
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0010	.0026	.0015	-.0076	-.0002	-.0010	.0010	.0170	62.61
Stddev	.0001	.0002	.0004	.0004	.0004	.0003	.0008	.0029	.04
%RSD	11.25	6.064	24.94	5.688	228.8	34.73	84.96	16.97	.0610
#1	.0011	.0025	.0018	-.0073	-.0004	-.0012	.0016	.0191	62.59
#2	.0009	.0028	.0012	-.0079	.0001	-.0007	.0004	.0150	62.64
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0084	26.05	6.988	138.6	.0360	.0022	.0034	4.491	.0000
Stddev	.0014	.09	.004	.1	.0000	.0001	.0017	.002	.0003
%RSD	17.15	.3499	.0502	.0392	.0717	4.279	48.64	.0498	725.4
#1	.0094	25.99	6.986	138.6	.0360	.0023	.0046	4.493	.0002
#2	.0074	26.12	6.990	138.6	.0360	.0021	.0022	4.490	-.0002
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	1.698	.0006	.0165	-.0029	4.367	-.0017	.0301		
Stddev	.001	.0003	.0010	.0000	.002	.0009	.0009		
%RSD	.0266	55.65	5.869	.5262	.0476	52.00	3.144		
#1	1.698	.0008	.0172	-.0029	4.365	-.0024	.0294		
#2	1.698	.0004	.0158	-.0029	4.368	-.0011	.0307		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	64058.	9521.1	2180.3	3147.2					
Stddev	9.	12.3	7.1	11.9					
%RSD	.01355	.12942	.32466	.37799					
#1	64065.	9529.8	2175.3	3138.8					
#2	64052.	9512.4	2185.3	3155.6					

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Sample Name: jb70173-3f Acquired: 7/1/2014 20:09:02 Type: Unk
Method: Accutest1(v35) 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	.7523	-.0000	.0001	.0001	.0006	-.0005	.2312	.0000	.0004
Stddev	.0008	.0001	.0000	.0001	.0004	.0000	.0001	.0002	.0001
%RSD	.1069	4327.	31.92	46.63	61.87	1.462	.0459	394.8	27.48
#1	.7528	-.0001	.0001	.0002	.0003	-.0005	.2311	.0002	.0003
#2	.7517	.0001	.0001	.0001	.0008	-.0005	.2313	-.0001	.0004
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0006	.0012	.0099	-.0062	-.0002	.0038	.0007	.0339	37.83
Stddev	.0000	.0001	.0002	.0005	.0002	.0005	.0004	.0059	.03
%RSD	.1724	6.562	1.546	8.259	68.62	13.46	51.89	17.29	.0756
#1	.0006	.0012	.0098	-.0066	-.0001	.0034	.0010	.0380	37.85
#2	.0006	.0011	.0100	-.0058	-.0004	.0041	.0004	.0297	37.81
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0203	7.433	1.655	110.7	.0486	.0018	.0105	10.63	-.0017
Stddev	.0016	.047	.005	.0	.0005	.0001	.0007	.01	.0002
%RSD	8.119	.6292	.2799	.0141	1.057	3.986	6.201	.0777	11.99
#1	.0191	7.400	1.652	110.7	.0490	.0017	.0101	10.62	-.0019
#2	.0215	7.466	1.658	110.7	.0483	.0018	.0110	10.63	-.0016
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.7831	.0006	.0139	-.0088	8.656	-.0021	.0140		
Stddev	.0002	.0000	.0006	.0001	.024	.0006	.0004		
%RSD	.0263	1.693	4.513	.6202	.2791	27.46	3.013		
#1	.7830	.0006	.0134	-.0087	8.639	-.0017	.0137		
#2	.7833	.0006	.0143	-.0088	8.673	-.0026	.0143		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	65472.	9663.9	2233.1	3269.4					
Stddev	41.	57.5	5.4	11.1					
%RSD	.06228	.59548	.24323	.33845					
#1	65501.	9623.2	2229.3	3261.6					
#2	65443.	9704.5	2237.0	3277.3					

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Sample Name: jb70173-4f Acquired: 7/1/2014 20:15:03 Type: Unk
Method: Accutest1(v35) 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	.0390	-0.0000	.0000	.0008	.0009	.0003	1.927	.0014	.0009
Stddev	.0001	.0001	.0002	.0000	.0000	.0002	.000	.0001	.0005
%RSD	.2887	.2322	.349.5	3.941	1.819	78.53	.0005	3.766	59.31
#1	.0391	.0001	-0.0001	.0008	.0009	.0001	1.927	.0015	.0013
#2	.0389	-0.0001	.0002	.0008	.0009	.0004	1.927	.0014	.0005
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0011	.0060	.0005	-0.0029	.0009	.0017	.0010	.0168	37.29
Stddev	.0001	.0002	.0009	.0002	.0004	.0016	.0003	.0055	.07
%RSD	6.603	3.080	193.0	6.001	47.07	94.35	32.56	32.59	.1810
#1	.0011	.0058	.0011	-.0028	.0006	.0006	.0012	.0206	37.34
#2	.0010	.0061	-0.0002	-.0030	.0013	.0029	.0007	.0129	37.24
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.1167	11.28	1.521	3.063	.1289	.0004	.0045	4.326	-.0015
Stddev	.0016	.02	.014	.016	.0002	.0002	.0001	.009	.0002
%RSD	1.391	.1347	.9275	.5219	.1474	47.93	1.231	.2105	14.04
#1	.1178	11.27	1.531	3.074	.1290	.0005	.0044	4.333	-.0016
#2	.1155	11.29	1.511	3.052	.1288	.0002	.0045	4.320	-.0013
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.1340	.0002	.0106	-.0034	7.261	-.0014	-.0000		
Stddev	.0003	.0002	.0001	.0000	.003	.0003	.0005		
%RSD	.1929	100.6	.7404	.8916	.0462	22.43	1281.		
#1	.1339	.0001	.0107	-.0034	7.259	-.0012	.0003		
#2	.1342	.0003	.0106	-.0033	7.263	-.0016	-.0004		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	67081.	9582.4	2308.6	3440.3					
Stddev	268.	83.4	.6	3.1					
%RSD	.39917	.86992	.02413	.08929					
#1	67271.	9641.3	2309.0	3442.4					
#2	66892.	9523.4	2308.2	3438.1					

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Sample Name: jb70173-5f Acquired: 7/1/2014 20:21:05 Type: Unk
Method: Accutest1(v35) 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	.7126	.0000	.0001	.0002	.0011	.0002	.0193	.0000	.0012
Stddev	.0009	.0001	.0002	.0000	.0006	.0001	.0001	.0001	.0001
%RSD	.1300	150.2	255.1	14.55	54.78	58.35	.4240	1480.	6.732
#1	.7120	.0001	.0002	.0002	.0007	.0003	.0194	.0001	.0011
#2	.7133	-0.0000	-0.0001	.0002	.0015	.0001	.0192	-0.0001	.0012
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0009	.0020	.0017	-.0055	.0002	.0019	.0002	.0221	59.13
Stddev	.0001	.0002	.0004	.0004	.0005	.0009	.0006	.0022	.10
%RSD	9.144	9.411	25.70	7.612	236.4	47.03	291.7	9.918	.1683
#1	.0010	.0021	.0014	-.0052	.0005	.0025	-.0002	.0237	59.20
#2	.0008	.0018	.0021	-.0058	-0.0001	.0012	.0007	.0206	59.06
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0109	24.58	6.502	130.1	.0338	.0019	.0037	4.214	-.0008
Stddev	.0050	.02	.007	.0	.0001	.0003	.0007	.004	.0002
%RSD	46.24	.0961	.1146	.0067	.4266	16.86	20.05	.0990	29.18
#1	.0144	24.59	6.497	130.1	.0339	.0017	.0032	4.211	-.0007
#2	.0073	24.56	6.507	130.0	.0337	.0021	.0042	4.217	-.0010
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	1.599	.0007	-.0019	-.0034	4.100	-.0015	.0281		
Stddev	.000	.0003	.0011	.0001	.004	.0002	.0004		
%RSD	.0113	38.82	55.71	1.581	.0934	11.13	1.462		
#1	1.599	.0009	-.0027	-.0034	4.103	-.0014	.0278		
#2	1.599	.0005	-.0012	-.0033	4.098	-.0016	.0284		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	64403.	9497.5	2191.1	3167.6					
Stddev	268.	43.6	2.5	4.9					
%RSD	.41655	.45876	.11320	.15321					
#1	64214.	9528.3	2189.4	3164.2					
#2	64593.	9466.7	2192.9	3171.0					

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Sample Name: jb70255-2f Acquired: 7/1/2014 20:27:05 Type: Unk
Method: Accutest1(v35) 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	.0513	.0006	.0013	.0616	.0012	.0011	3.341	.1752	.0015
Stddev	.0001	.0001	.0002	.0005	.0004	.0001	.011	.0003	.0003
%RSD	.2496	14.03	14.96	.8218	36.88	6.354	.3331	.1788	18.93
#1	.0514	.0007	.0014	.0619	.0015	.0010	3.333	.1754	.0013
#2	.0512	.0006	.0011	.0612	.0009	.0011	3.349	.1750	.0017
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0025	.7745	.0040	-.0038	.0028	.0087	.0015	.0465	46.11
Stddev	.0003	.0019	.0005	.0014	.0005	.0016	.0006	.0018	.45
%RSD	11.41	.2410	13.56	36.57	16.90	18.42	42.30	3.941	.9811
#1	.0027	.7758	.0037	-.0048	.0031	.0076	.0011	.0478	46.43
#2	.0023	.7731	.0044	-.0028	.0024	.0098	.0020	.0452	45.79
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	23.36	11.04	4.219	5.051	.2070	-.0002	.0192	16.60	-.0032
Stddev	.12	.13	.001	.012	.0008	.0001	.0004	.03	.0001
%RSD	.5204	1.141	.0215	.2399	.3749	41.03	2.239	.2040	4.239
#1	23.44	11.13	4.219	5.059	.2076	-.0002	.0189	16.63	-.0033
#2	23.27	10.95	4.218	5.042	.2065	-.0003	.0195	16.58	-.0031
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.5718	.0003	.0106	-.0153	36.59	.0003	.0282		
Stddev	.0013	.0001	.0007	.0000	.08	.0017	.0001		
%RSD	.2203	39.97	6.836	.3192	.2075	656.8	.4201		
#1	.5726	.0002	.0101	-.0153	36.64	.0014	.0283		
#2	.5709	.0004	.0111	-.0152	36.54	-.0009	.0281		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	66802.	9638.3	2282.3	3404.9					
Stddev	69.	75.9	6.9	10.4					
%RSD	.10275	.78733	.30438	.30590					
#1	66851.	9584.6	2277.4	3397.5					
#2	66753.	9692.0	2287.2	3412.2					

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Sample Name: jb70255-3f Acquired: 7/1/2014 20:33:03 Type: Unk
Method: Accutest1(v35) 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	.0441	.0008	.0001	.0214	.0008	.0016	.0873	.0264	-.0003
Stddev	.0000	.0001	.0000	.0001	.0002	.0002	.0001	.0001	.0002
%RSD	.0604	6.383	16.17	.4255	19.29	12.70	.1584	.5058	52.82
#1	.0441	.0008	.0001	.0213	.0009	.0015	.0872	.0263	-.0002
#2	.0441	.0009	.0002	.0215	.0007	.0018	.0874	.0265	-.0005
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0001	.0799	-.0008	-.0003	.0002	.0012	.0007	.2407	6.472
Stddev	.0000	.0000	.0001	.0004	.0007	.0001	.0002	.0066	.005
%RSD	16.72	.0591	16.00	127.5	265.8	9.310	29.38	2.723	.0730
#1	.0001	.0799	-.0009	-.0000	.0007	.0012	.0009	.2361	6.475
#2	.0001	.0798	-.0007	-.0006	-.0002	.0013	.0006	.2453	6.469
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.7801	4.977	4.443	16.29	.0453	.0000	.0044	3.602	-.0001
Stddev	.0003	.030	.025	.04	.0002	.0001	.0007	.002	.0001
%RSD	.0363	.6135	.5543	.2556	.3427	393.2	16.19	.0517	61.72
#1	.7799	4.998	4.461	16.32	.0454	-.0000	.0049	3.601	-.0001
#2	.7803	4.955	4.426	16.26	.0451	.0001	.0039	3.603	-.0002
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0928	.0003	-.0004	-.0030	9.640	-.0009	.0127		
Stddev	.0002	.0002	.0003	.0000	.001	.0002	.0004		
%RSD	.2480	62.18	73.17	.2889	.0100	24.37	3.330		
#1	.0926	.0001	-.0005	-.0030	9.639	-.0008	.0130		
#2	.0930	.0004	-.0002	-.0030	9.640	-.0011	.0124		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	67798.	9780.2	2331.9	3516.8					
Stddev	214.	9.3	1.3	4					
%RSD	.31524	.09522	.05388	.01161					
#1	67647.	9773.6	2332.8	3517.1					
#2	67949.	9786.8	2331.0	3516.5					

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Sample Name: ccv Acquired: 7/1/2014 20:39:05 Type: QC									
Method: Accutest1(v35) 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	1.948	1.973	1.979	2.022	2.021	1.904	2.015	2.041	2.417
Stddev	.001	.002	.002	.002	.012	.002	.002	.001	.0002
%RSD	.0518	.0957	.0986	.0866	.6033	.1029	.0791	.0284	.0819
#1	1.948	1.975	1.981	2.023	2.012	1.902	2.014	2.041	2.418
#2	1.949	1.972	1.978	2.020	2.029	1.905	2.016	2.040	2.416
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	1.987	1.995	1.959	2.097	2.059	1.976	1.987	39.49	39.52
Stddev	.003	.003	.003	.002	.003	.003	.001	.04	.03
%RSD	.1302	.1448	.1260	.1093	.1522	.1680	.0613	.1010	.0634
#1	1.986	1.997	1.961	2.096	2.061	1.978	1.988	39.52	39.54
#2	1.989	1.993	1.957	2.099	2.057	1.973	1.987	39.46	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	39.14	38.84	39.14	39.49	1.979	2.023	1.978	5.003	2.058
Stddev	.03	.03	.19	.11	.001	.002	.003	.003	.006
%RSD	.0703	.0753	.4813	.2691	.0336	.0890	.1372	.0652	.2756
#1	39.16	38.82	39.00	39.42	1.979	2.022	1.976	5.005	2.062
#2	39.12	38.86	39.27	39.57	1.979	2.025	1.980	5.000	2.054
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: 7/1/2014 20:39:05 Type: QC							
Method: Accutest1(v35) 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	1.967	1.982	1.865	1.994	1.934	2.023	1.962
Stddev	.001	.004	.003	.005	.004	.003	.003
%RSD	.0471	.2181	.1799	.2318	.2078	.1380	.1731
#1	1.968	1.979	1.863	1.991	1.931	2.025	1.960
#2	1.967	1.985	1.868	1.997	1.937	2.021	1.965
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	65191.	9559.0	2241.5	3185.1			
Stddev	71.	49.6	.0	2.5			
%RSD	.10832	.51849	.00180	.07963			
#1	65241.	9594.1	2241.4	3186.9			
#2	65141.	9524.0	2241.5	3183.3			

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Sample Name: ccb Acquired: 7/1/2014 20:44:55 Type: QC									
Method: Accutest1(v35) 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	.0001	.0003	.0004	-.0006	.0001	.0003	.0003
Stddev	.0002	.0000	.0000	.0001	.0001	.0001	.0000	.0000	.0001
%RSD	51.65	24.99	59.35	56.51	14.90	18.54	16.35	11.97	39.97
#1	.0004	.0002	.0000	.0004	.0005	-.0005	.0001	.0003	.0002
#2	.0002	.0002	.0001	.0002	.0004	-.0007	.0001	.0003	.0004
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	-.0004	.0007	.0004	-.0003	.0007	-.0058	-.0001
Stddev	.0002	.0001	.0015	.0009	.0008	.0011	.0004	.0019	.0026
%RSD	119.4	53.62	382.3	118.0	178.6	338.1	57.98	31.99	2269.
#1	-.0002	.0001	.0007	.0014	.0010	-.0011	.0004	-.0071	.0017
#2	-.0000	.0002	-.0015	.0001	-.0001	.0004	.0011	-.0045	-.0019
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	.0071	-.0063	.0654	.0089	.0016	.0016	-.0006	-.0014	.0002
Stddev	.0026	.0097	.0121	.0018	.0003	.0002	.0002	.0010	.0000
%RSD	36.92	152.2	18.44	20.49	21.93	11.91	43.61	73.27	3.651
#1	.0089	.0005	.0739	.0102	.0018	.0018	-.0007	-.0021	.0002
#2	.0052	-.0132	.0569	.0076	.0013	.0015	-.0004	-.0007	.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: 7/1/2014 20:44:55 Type: QC							
Method: Accutest1(v35) 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	.0027	.0007	.0041	.0024	.0005
Stddev	.0001	.0002	.0001	.0001	.0012	.0005	.0003
%RSD	137.8	74.65	2.099	10.35	27.87	19.58	58.54
#1	.0000	.0005	.0027	.0006	.0050	.0020	.0003
#2	.0001	.0001	.0027	.0007	.0033	.0027	.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	68473.	9564.3	2373.3	3615.5			
Stddev	126.	93.5	4.6	6.9			
%RSD	.18415	.97805	.19526	.18981			
#1	68562.	9498.1	2376.6	3620.3			
#2	68384.	9630.4	2370.0	3610.6			

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Sample Name: jb70255-4f Acquired: 7/1/2014 20:51:02 Type: Unk
Method: Accutest1(v35) 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	.0632	.0000	.0001	.0013	.0003	-.0007	.1870	.0030	.0006
Stddev	.0004	.0000	.0000	.0000	.0002	.0001	.0006	.0002	.0000
%RSD	.5957	58.65	26.64	1.290	76.68	17.47	.3009	6.751	3.374
#1	.0635	.0001	.0001	.0013	.0001	-.0006	.1866	.0029	.0006
#2	.0629	.0000	.0001	.0013	.0004	-.0007	.1874	.0032	.0006
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0001	.0024	-.0006	-.0018	.0005	.0027	-.0002	.0309	34.18
Stddev	.0000	.0001	.0008	.0002	.0008	.0009	.0010	.0069	.02
%RSD	51.94	5.180	134.7	10.62	169.1	34.81	405.2	22.50	.0495
#1	.0001	.0023	-.0000	-.0016	-.0001	.0033	-.0009	.0260	34.17
#2	.0000	.0025	-.0011	-.0019	.0010	.0020	.0004	.0358	34.19
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	3.566	4.181	5.167	13.20	.0393	.0022	.0072	6.874	-.0018
Stddev	.017	.012	.007	.09	.0002	.0002	.0000	.021	.0007
%RSD	.4636	.2920	.1385	.6592	.4328	7.158	.4016	.3052	41.48
#1	3.578	4.172	5.172	13.27	.0394	.0021	.0072	6.859	-.0012
#2	3.555	4.189	5.162	13.14	.0392	.0023	.0071	6.889	-.0023
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.4577	.0001	.0037	-.0051	9.910	-.0004	.0016		
Stddev	.0011	.0000	.0012	.0001	.027	.0005	.0011		
%RSD	.2480	32.93	33.41	1.931	.2744	107.2	1.213		
#1	.4585	.0001	.0028	-.0050	9.890	-.0007	.0117		
#2	.4569	.0002	.0045	-.0052	9.929	-.0001	.0115		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	66859.	9476.7	2294.4	3461.8					
Stddev	267.	49.9	3.6	11.4					
%RSD	.39871	.52680	.15539	.32814					
#1	67048.	9512.0	2291.9	3453.8					
#2	66671.	9441.4	2296.9	3469.9					

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Sample Name: jb70255-5f Acquired: 7/1/2014 20:57:02 Type: Unk
Method: Accutest1(v35) 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	.0708	.0002	.0155	-.0006	.0016	.0352	.0114	.0763	.0011
Stddev	.0001	.0001	.0002	.0003	.0001	.0001	.0001	.0000	.0002
%RSD	.1967	26.81	1.239	39.55	4.120	.2715	.9524	.0176	21.92
#1	.0707	.0002	.0157	-.0005	.0017	.0352	.0113	.0764	.0009
#2	.0709	.0003	.0154	-.0008	.0016	.0353	.0114	.0763	.0013
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0022	2.600	.0021	-.0050	.0025	.0107	.0043	.0947	56.76
Stddev	.0001	.005	.0004	.0009	.0006	.0031	.0007	.0042	.21
%RSD	3.322	.1941	20.27	17.60	25.79	29.19	16.09	4.463	.3622
#1	.0022	2.604	.0024	-.0056	.0020	.0085	.0038	.0917	56.91
#2	.0023	2.597	.0018	-.0044	.0029	.0129	.0048	.0977	56.61
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0472	8.731	4.653	6.851	.2349	.0001	.0284	23.79	-.0032
Stddev	.0019	.062	.035	.024	.0014	.0002	.0003	.12	.0002
%RSD	4.114	.7086	.7529	.3532	.6101	221.2	1.173	.4890	6.703
#1	.0486	8.775	4.678	6.868	.2360	.0002	.0287	23.88	-.0031
#2	.0459	8.687	4.628	6.834	.2339	-.0001	.0282	23.71	-.0034
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.5762	.0001	.0151	-.0201	32.82	-.0026	.0074		
Stddev	.0014	.0002	.0006	.0001	.16	.0010	.0012		
%RSD	.2406	296.5	3.766	.2967	.4872	36.20	16.84		
#1	.5772	.0002	.0155	-.0201	32.93	-.0033	.0065		
#2	.5753	-.0001	.0147	-.0200	32.71	-.0020	.0083		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	66714.	9707.4	2269.2	3408.9					
Stddev	126.	67.1	6.0	4.3					
%RSD	.18866	.69132	.26308	.12512					
#1	66803.	9660.0	2264.9	3405.8					
#2	66625.	9754.9	2273.4	3411.9					

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Sample Name: jb70255-6f Acquired: 7/1/2014 21:03:01 Type: Unk
Method: Accutest1(v35) 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	.0233	.0002	.0004	.0018	.0002	-.0016	.3454	.0113	.0003
Stddev	.0000	.0000	.0000	.0000	.0002	.0004	.0007	.0001	.0000
%RSD	.1215	30.64	4.533	1.498	77.90	25.83	.1923	.6274	7.093
#1	.0233	.0001	.0004	.0018	.0004	-.0019	.3459	.0113	.0003
#2	.0233	.0002	.0004	.0019	.0001	-.0013	.3450	.0114	.0003
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0002	.0675	.0021	-.0015	.0014	.0081	.0001	.0573	6.029
Stddev	.0001	.0002	.0013	.0005	.0003	.0014	.0006	.0015	.001
%RSD	62.25	.2353	61.33	30.55	20.81	17.04	574.0	2.596	.0076
#1	.0001	.0677	.0030	-.0019	.0016	.0090	-.0003	.0584	6.029
#2	.0002	.0674	.0012	-.0012	.0012	.0071	.0005	.0563	6.030
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	4.804	2.104	9.364	2.040	.0302	-.0002	.0198	19.52	-.0030
Stddev	.021	.016	.0025	.002	.0003	.0002	.0007	.04	.0006
%RSD	.4337	.7486	.2701	.0939	.8860	139.1	3.328	.2279	18.45
#1	4.789	2.093	9382	2.038	.0304	-.0003	.0193	19.55	-.0026
#2	4.818	2.116	9346	2.041	.0300	-.0000	.0202	19.49	-.0034
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0380	-.0004	.0157	-.0167	4.315	-.0021	.0163		
Stddev	.0000	.0000	.0011	.0001	.007	.0006	.0005		
%RSD	.1232	7.524	6.728	.4277	.1632	29.01	2.791		
#1	.0380	-.0003	.0165	-.0167	4.320	-.0016	.0166		
#2	.0380	-.0004	.0150	-.0166	4.310	-.0025	.0159		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	68200.	9691.0	2358.1	3624.1					
Stddev	264.	13.2	6.6	4.8					
%RSD	.38749	.13618	.27934	.13128					
#1	68013.	9681.6	2353.5	3620.8					
#2	68387.	9700.3	2362.8	3627.5					

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Sample Name: jb70255-7f Acquired: 7/1/2014 21:09:01 Type: Unk
Method: Accutest1(v35) 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	.0456	.0006	.0017	.0527	.0010	.0031	2.855	.1554	.0010
Stddev	.0001	.0000	.0000	.0003	.0002	.0002	.002	.0003	.0000
%RSD	.3180	.9705	1.063	.4882	23.82	7.069	.0747	.2135	.3152
#1	.0457	.0006	.0017	.0529	.0011	.0029	2.854	.1551	.0010
#2	.0455	.0006	.0017	.0525	.0008	.0032	2.857	.1556	.0010
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0022	.6740	.0029	-.0043	.0017	.0070	-.0006	.0496	39.03
Stddev	.0003	.0004	.0009	.0001	.0002	.0006	.0004	.0010	.27
%RSD	11.44	.0530	31.68	1.241	13.61	9.220	76.74	1.920	.6822
#1	.0024	.6737	.0023	-.0043	.0015	.0075	-.0009	.0503	39.22
#2	.0020	.6742	.0036	-.0043	.0019	.0066	-.0003	.0489	38.84
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	19.17	9.357	3.853	4.267	.1800	-.0001	.0190	15.70	-.0027
Stddev	.09	.057	.011	.009	.0004	.0001	.0006	.03	.0002
%RSD	.4796	.6050	.2765	.2077	.2033	117.2	3.150	.1649	6.702
#1	19.24	9.397	3.861	4.274	.1803	-.0000	.0194	15.72	-.0025
#2	19.11	9.317	3.846	4.261	.1798	-.0001	.0186	15.69	-.0028
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.4949	-.0003	.0117	-.0142	34.72	-.0004	.0280		
Stddev	.0000	.0002	.0003	.0001	.05	.0008	.0009		
%RSD	.0036	61.97	2.661	.9501	.1388	199.7	3.342		
#1	.4949	-.0001	.0115	-.0143	34.76	-.0009	.0274		
#2	.4949	-.0004	.0119	-.0141	34.69	.0002	.0287		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	67277.	9628.6	2293.4	3454.3					
Stddev	99.	105.1	1.5	3.2					
%RSD	.14706	1.0910	.06452	.09141					
#1	67207.	9554.3	2292.4	3456.5					
#2	67347.	9702.8	2294.5	3452.1					

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Sample Name: mp80365-s1 Acquired: 7/1/2014 21:15:00 Type: Unk
 Method: Accutest1(v35) Mode: CONC Corr. Factor: 2.000000
 User: admin Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	1.770	.0458	.0502	.4477	.2015	.3347	5.647	.4858	.0535
Stddev	.001	.0001	.0003	.0001	.0003	.0007	.008	.0006	.0002
%RSD	.0525	.1692	.5743	.0142	.1662	.2216	.1435	.1208	.4070
#1	1.770	.0458	.0500	.4476	.2012	.3352	5.641	.4854	.0533
#2	1.771	.0457	.0504	.4477	.2017	.3342	5.653	.4862	.0536
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.4557	.9032	1.889	1.860	.6810	1.892	.4517	7.936	247.5
Stddev	.0004	.0040	.007	.010	.0008	.008	.0021	.021	.4
%RSD	.0937	.4416	.3519	.5534	.1174	.4005	.4552	.2682	.1589
#1	.4560	.9004	1.884	1.867	.6804	1.897	.4532	7.951	247.8
#2	.4554	.9060	1.894	1.853	.6816	1.886	.4503	7.921	247.3
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	24.25	57.81	31.03	203.0	.1938	.0033	.0387	17.97	-.0036
Stddev	.08	.33	.00	.1	.0006	.0005	.0011	.01	.0002
%RSD	.3238	.5745	.0028	.0279	.3026	15.05	2.895	.0542	5.327
#1	24.30	58.05	31.03	203.0	.1934	.0036	.0395	17.96	-.0037
#2	24.19	57.58	31.03	202.9	.1942	.0029	.0379	17.98	-.0035
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.9353	.1343	.0055	-.0154	170.1	.0039	.0160		
Stddev	.0018	.0007	.0012	.0002	.0	.0001	.0012		
%RSD	.1882	.5073	22.36	1.038	.0131	2.812	7.633		
#1	.9341	.1338	.0047	-.0153	170.1	.0038	.0168		
#2	.9366	.1347	.0064	-.0155	170.1	.0039	.0151		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	64110.	9424.7	2172.9	3126.4					
Stddev	26.	15.4	4.9	6.7					
%RSD	.04124	.16393	.22668	.21305					
#1	64092.	9435.6	2176.3	3131.1					
#2	64129.	9413.7	2169.4	3121.7					

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Sample Name: jb70340-2 Acquired: 7/1/2014 21:26:48 Type: Unk
 Method: Accutest1(v35) Mode: CONC Corr. Factor: 2.000000
 User: admin Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.0762	.0021	.0041	.0065	.0260	.1261	5.458	.0396	.0084
Stddev	.0007	.0002	.0001	.0001	.0008	.0019	.023	.0001	.0006
%RSD	.8671	9.488	2.193	1.132	3.174	1.488	.4155	.1444	6.945
#1	.0767	.0020	.0040	.0066	.0266	.1274	5.442	.0396	.0080
#2	.0757	.0022	.0041	.0065	.0254	.1247	5.474	.0397	.0088
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0201	.4845	.0072	-.0054	.2342	.0096	.0027	5.965	236.3
Stddev	.0000	.0001	.0040	.0007	.0023	.0022	.0002	.018	1.2
%RSD	.1429	.0138	55.76	13.90	.9909	22.68	6.246	.3091	.5116
#1	.0201	.4844	.0044	-.0059	.2325	.0111	.0026	5.952	235.4
#2	.0201	.4845	.0101	-.0048	.2358	.0081	.0028	5.978	237.1
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	24.10	37.82	9.375	188.3	.1998	.0029	.0382	17.53	-.0022
Stddev	.15	.27	.032	.2	.0007	.0001	.0002	.01	.0002
%RSD	.6166	.7194	.3452	.0997	.3528	2.237	.6315	.0326	10.90
#1	24.00	37.63	9.398	188.2	.1993	.0029	.0391	17.52	-.0024
#2	24.21	38.01	9.352	188.4	.2003	.0028	.0394	17.53	-.0020
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.9763	.1259	-.0157	-.0201	177.0	.0044	.0162		
Stddev	.0017	.0013	.0006	.0000	.0	.0048	.0013		
%RSD	.1743	1.067	3.869	.0676	.0108	108.5	8.328		
#1	.9751	.1249	-.0152	-.0201	177.0	.0010	.0171		
#2	.9775	.1268	-.0161	-.0201	176.9	.0078	.0152		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	64267.	9442.4	2188.5	3166.6					
Stddev	13.	56.2	.3	4.2					
%RSD	.02078	.59558	.01195	.13292					
#1	64277.	9482.1	2188.3	3163.6					
#2	64258.	9402.6	2188.7	3169.6					

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Sample Name: mp80365-s2 Acquired: 7/1/2014 21:20:54 Type: Unk
 Method: Accutest1(v35) Mode: CONC Corr. Factor: 2.000000
 User: admin Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	1.827	.0470	.0517	.4626	.2080	.3446	5.902	.5012	.0541
Stddev	.003	.0004	.0003	.0007	.0006	.0001	.000	.0004	.0012
%RSD	.1850	.8001	.6031	.1576	.3034	.0246	.0076	.0788	2.250
#1	1.825	.0467	.0515	.4631	.2084	.3445	5.902	.5014	.0549
#2	1.829	.0472	.0519	.4620	.2075	.3446	5.902	.5009	.0532
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.4702	.9313	1.961	1.928	.7052	1.966	.4716	8.147	258.0
Stddev	.0016	.0001	.001	.003	.0031	.010	.0045	.043	.5
%RSD	.3306	.0138	.0540	.1327	.4333	.5213	.9440	.5290	.1999
#1	.4713	.9314	1.962	1.930	.7073	1.973	.4748	8.116	257.6
#2	.4691	.9312	1.961	1.926	.7030	1.958	.4685	8.177	258.4
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	25.08	60.05	32.28	212.5	.2037	.0036	.0404	18.65	-.0034
Stddev	.08	.14	.03	.1	.0002	.0004	.0009	.06	.0011
%RSD	.3347	.2251	.1076	.0705	.0751	10.10	2.258	.2984	32.48
#1	25.02	59.95	32.31	212.4	.2036	.0034	.0397	18.69	-.0041
#2	25.14	60.14	32.26	212.6	.2038	.0039	.0410	18.61	-.0026
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.9840	.1332	.0056	-.0177	179.5	.0055	.0168		
Stddev	.0031	.0006	.0015	.0002	.4	.0013	.0003		
%RSD	.3132	.4719	25.70	1.290	.2457	22.96	1.680		
#1	.9818	.1328	.0046	-.0179	179.8	.0064	.0170		
#2	.9861	.1337	.0067	-.0176	179.2	.0046	.0166		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	63992.	9461.2	2154.7	3099.1					
Stddev	68.	28.0	5.3	7.3					
%RSD	.10571	.29615	.24591	.23456					
#1	63944.	9441.4	2151.0	3093.9					
#2	64040.	9481.0	2158.5	3104.2					

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Sample Name: jb70340-3 Acquired: 7/1/2014 21:38:45 Type:UNK
Method: Accutest1(v35) 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	.4411	.0030	.0015	.0237	.0798	.1610	1.941	.0497	.0065
Stddev	.0004	.0000	.0007	.0004	.0025	.0010	.008	.0000	.0004
%RSD	.0956	1.185	43.64	1.703	3.166	.5966	.3955	.0671	6.284

#1	.4414	.0030	.0010	.0234	.0780	.1617	1.935	.0496	.0068
#2	.4408	.0030	.0020	.0240	.0815	.1603	1.946	.0497	.0062

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.1515	.3151	.0404	-.0152	.2565	.0216	.0016	47.55	448.7
Stddev	.0005	.0010	.0027	.0017	.0015	.0030	.0082	.30	.7
%RSD	.3120	.3274	6.684	11.22	.5773	13.87	502.5	.6307	.1509

#1	.1512	.3158	.0385	-.0140	.2576	.0195	-.0041	47.76	449.2
#2	.1519	.3144	.0423	-.0164	.2555	.0237	.0074	47.34	448.3

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	75.07	53.39	27.24	95.47	.7000	.0129	.0891	51.59	.1219
Stddev	.07	.41	.03	.23	.0000	.0002	.0004	.07	.0005
%RSD	.0965	.7773	.1169	.2365	.0069	1.740	.4850	.1453	.4090

#1	75.02	53.69	27.26	95.63	.7000	.0128	.0888	51.54	.1215
#2	75.12	53.10	27.22	95.31	.6999	.0131	.0894	51.65	.1222

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Avg	2.687	1.892	-.0296	-.0394	313.6	.0015	.0684
Stddev	.011	.005	.0007	.0006	.4	.0043	.0015
%RSD	.4159	.2815	2.381	1.447	.1129	296.0	2.194

#1	2.695	1.888	-.0301	-.0398	313.3	-.0016	.0695
#2	2.679	1.896	-.0291	-.0390	313.8	.0045	.0674

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	65898.	9558.0	2252.2	3283.1
Stddev	223.	40.6	4.5	8.7
%RSD	.33815	.42452	.19938	.26610

#1	66056.	9586.7	2255.4	3289.3
#2	65740.	9529.3	2249.1	3277.0

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Sample Name: ccv Acquired: 7/1/2014 21:44:45 Type: QC
Method: Accutest1(v35) 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	1.976	1.991	1.891	2.005	1.958	2.050	1.966
Stddev	.001	.001	.009	.000	.004	.001	.004
%RSD	.0550	.0248	.4636	.0050	.1888	.0227	.1870

#1	1.977	1.991	1.885	2.005	1.955	2.050	1.968
#2	1.976	1.990	1.897	2.005	1.961	2.050	1.963

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	64926.	9449.7	2231.2	3182.7
Stddev	98.	37.1	1	1.9
%RSD	.15128	.39260	.00405	.05925

#1	64995.	9475.9	2231.2	3181.4
#2	64856.	9423.4	2231.3	3184.0

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Sample Name: ccv Acquired: 7/1/2014 21:44:45 Type: QC
Method: Accutest1(v35) 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	1.962	1.978	2.001	2.028	2.028	1.930	2.023	2.042	2.434
Stddev	.001	.010	.000	.001	.000	.013	.001	.003	.0016
%RSD	.0387	.5166	.0020	.0495	.0106	.6547	.0704	.1472	.6592

#1	1.962	1.985	2.001	2.027	2.028	1.939	2.022	2.039	2.445
#2	1.963	1.971	2.001	2.029	2.028	1.921	2.024	2.044	2.423

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	1.999	1.972	2.114	2.066	1.988	2.010	39.56	39.64
Stddev	.000	.006	.000	.004	.003	.003	.001	.14	.15
%RSD	.0133	.2988	.0223	.2110	.1234	.1383	.0572	.3584	.3775

#1	2.000	1.995	1.972	2.111	2.068	1.986	2.010	39.66	39.74
#2	2.001	2.004	1.973	2.117	2.065	1.990	2.009	39.46	39.53

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	39.44	39.03	39.31	39.58	1.998	2.029	2.001	5.057	2.064
Stddev	.11	.14	.02	.03	.005	.004	.025	.005	.002
%RSD	.2738	.3463	.0398	.0634	.2660	.2004	1.229	.0933	.0740

#1	39.51	39.13	39.30	39.60	2.002	2.026	2.018	5.060	2.063
#2	39.36	38.94	39.32	39.57	1.995	2.032	1.984	5.053	2.065

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: 7/1/2014 21:50:35 Type: QC
Method: Accutest1(v35) 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	.0004	.0002	.0006	.0006	-.0003	.0006	.0005	.0005
Stddev	.0000	.0002	.0001	.0001	.0000	.0001	.0000	.0001	.0000
%RSD	9.991	39.54	30.50	26.26	4.524	31.94	3.651	23.54	.3445

#1	.0005	.0003	.0002	.0005	.0006	-.0002	.0005	.0004	.0005
#2	.0005	.0005	.0003	.0007	.0005	-.0004	.0006	.0006	.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	.0001	.0002	.0011	.0007	.0001	.0007	.0012	-.0022	.0065
Stddev	.0002	.0002	.0001	.0004	.0012	.0018	.0007	.0067	.0014
%RSD	137.5	71.82	5.115	55.59	786.9	246.5	64.37	303.6	22.12

#1	.0003	.0004	.0011	.0004	.0010	.0020	.0017	-.0070	.0055
#2	.0000	.0001	.0012	.0009	-.0007	-.0005	.0006	.0025	.0076

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	.0115	-.0032	.0383	.0163	.0011	.0019	.0014	-.0000	.0003
Stddev	.0018	.0260	.0009	.0040	.0002	.0004	.0010	.0016	.0005
%RSD	15.47	808.5	2.456	24.85	15.36	18.77	73.25	15880.	199.8

#1	.0127	.0151	.0390	.0192	.0013	.0021	.0007	.0011	.0006
#2	.0102	-.0216	.0377	.0134	.0010	.0016	.0021	-.0011	-.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: 7/1/2014 21:50:35 Type: QC
Method: Accutest1(v35) 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	.0043	.0009	.0037	.0022	.0005
Stddev	.0001	.0001	.0013	.0001	.0024	.0002	.0004
%RSD	10.61	13.20	29.80	10.88	64.93	9.974	88.21
#1	.0005	.0010	.0052	.0009	.0053	.0020	.0002
#2	.0005	.0008	.0034	.0008	.0020	.0023	.0008

Check ? High Limit
Low Limit

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	68920.	9544.6	2355.6	3601.0
Stddev	97.	35.2	20.2	20.6
%RSD	.14046	.36930	.85658	.57187
#1	68852.	9519.7	2341.4	3586.5
#2	68989.	9569.6	2369.9	3615.6

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Sample Name: crid Acquired: 7/1/2014 21:56:41 Type: QC
Method: Accutest1(v35) 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	.0043	.0010	.0010	.0033	.0024	.0015	.0032	.0043
Stddev	.0001	.0001	.0000	.0001	.0003	.0000	.0000	.0002
%RSD	2.411	7.266	3.949	3.860	12.74	.3723	1.030	5.718
#1	.0042	.0011	.0010	.0032	.0022	.0015	.0032	.0041
#2	.0044	.0010	.0010	.0034	.0026	.0015	.0032	.0045

Check ? Value
Range

Elem	Ag3280	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010	.0020	.0116	.0026	.0020	.0021	.0049	.0031
Stddev	.0001	.0001	.0001	.0001	.0006	.0003	.0000	.0008
%RSD	11.21	3.282	.5125	5.214	27.92	15.43	.4418	26.31
#1	.0009	.0021	.0115	.0027	.0016	.0018	.0049	.0026
#2	.0011	.0020	.0116	.0025	.0025	.0023	.0049	.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	.1055	1.015	.0011	.0762	1.983	.9923	.0101	.0005
Stddev	.0059	.008	.0034	.0024	.010	.0003	.0007	.0001
%RSD	5.605	.7873	320.0	3.125	.5096	.0327	6.449	14.36
#1	.1014	1.009	.0035	.0779	1.990	.9921	.0106	.0005
#2	.1097	1.021	.0013	.0745	1.975	.9926	.0097	.0004

Check ? Value
Range

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Sample Name: crid Acquired: 7/1/2014 21:56:41 Type: QC
Method: Accutest1(v35) 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	-.0022	.0001	-.0000	.0003	F .0015	F .0004	F .0023
Stddev	.0011	.0001	.0004	.0001	.0006	.0002	.0002	.0002
%RSD	439.6	2.272	729.4	163.7	195.0	13.18	55.85	6.650
#1	.0005	-.0022	-.0002	.0000	.0008	.0016	.0005	.0022
#2	-.0010	-.0022	.0004	-.0001	-.0001	.0013	.0002	.0025

Check ? Value
Range

Elem	Bi2230	Li6707
Units	ppm	ppm
Avg	F .0009	F -.0006
Stddev	.0008	.0002
%RSD	91.49	33.68
#1	.0003	-.0004
#2	.0015	-.0007

Check ? Value
Range

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	68336.	9626.9	2366.3	3603.1
Stddev	114.	77.1	.1	2.9
%RSD	.16745	.80098	.00220	.08169
#1	68416.	9681.4	2366.3	3605.2
#2	68255.	9572.4	2366.2	3601.0

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Sample Name: cri Acquired: 7/1/2014 22:02:47 Type: QC
Method: Accutest1(v35) 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	.1992	.0022	.0033	.0516	.0109	.0092	.0161	.0104	.0049
Stddev	.0002	.0000	.0001	.0002	.0005	.0001	.0000	.0003	.0004
%RSD	.1129	.6993	2.408	.3375	4.819	.8234	.0424	2.505	7.831
#1	.1990	.0022	.0033	.0518	.0105	.0093	.0161	.0106	.0046
#2	.1993	.0022	.0032	.0515	.0113	.0092	.0161	.0102	.0051

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	.0535	.0222	.0085	.0117	.0027	.0116	.0060	.1961	5.031
Stddev	.0001	.0001	.0000	.0004	.0001	.0017	.0006	.0073	.031
%RSD	.1231	.6412	.3339	3.033	3.516	15.03	9.434	3.710	.6250
#1	.0535	.0221	.0085	.0119	.0028	.0104	.0064	.1910	5.009
#2	.0536	.0223	.0085	.0114	.0027	.0128	.0056	.2012	5.053

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	.1046	4.947	4.934	4.941	.1022	.0209	.0559	.2073	.0106
Stddev	.0030	.055	.027	.001	.0007	.0001	.0005	.0005	.0007
%RSD	2.901	1.113	.5399	.0140	.6404	.2942	.8506	.2185	6.304
#1	.1068	4.908	4.915	4.941	.1017	.0208	.0562	.2070	.0111
#2	.1025	4.986	4.953	4.940	.1026	.0209	.0555	.2076	.0102

Check ? Value
Range

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Sample Name: cri Acquired: 7/1/2014 22:02:47 Type: QC
Method: Accutest1(v35) 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	.0103	.0107	.0538	.0118	.0478	.0215	.0185
Stddev	.0000	.0001	.0004	.0001	.0026	.0004	.0007
%RSD	.1007	1.030	.7288	1.117	5.396	1.786	3.510
#1	.0103	.0108	.0540	.0119	.0496	.0218	.0190
#2	.0103	.0106	.0535	.0117	.0460	.0212	.0181

Check ?
Value
Range

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	68004.	9573.0	2348.4	3547.0
Stddev	185.	35.4	3.7	5.5
%RSD	.27162	.37001	.15616	.15634
#1	68135.	9598.1	2345.8	3543.1
#2	67874.	9548.0	2351.0	3550.9

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Sample Name: cri Acquired: 7/1/2014 22:08:50 Type: QC
Method: Accutest1(v35) 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	-0.0000	.0003	-0.0021	.0002	.0030	-0.0001	-0.0007
Stddev	.0000	.0000	.0006	.0000	.0008	.0003	.0009
%RSD	73.75	1.346	30.06	28.49	27.32	215.4	130.7
#1	-0.0000	.0003	-0.0025	.0002	.0036	.0001	-0.0013
#2	-0.0000	.0003	-0.0016	.0001	.0024	-0.0004	-0.0000

Check ?
Value
Range

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	68642.	9682.8	2377.6	3632.6
Stddev	41.	32.0	6	2
%RSD	.06020	.33085	.02467	.00438
#1	68671.	9705.4	2378.0	3632.7
#2	68613.	9660.1	2377.2	3632.5

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Sample Name: cri Acquired: 7/1/2014 22:08:50 Type: QC
Method: Accutest1(v35) 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	-0.0000	-0.0001	.0000	.0002	-0.0008	.0000	.0000	-0.0002
Stddev	.0001	.0000	.0000	.0002	.0002	.0002	.0000	.0000	.0005
%RSD	150.0	139.3	5.070	754.1	125.2	23.44	25.41	310.8	264.6
#1	-0.0000	-0.0000	-0.0001	.0002	.0004	-0.0009	.0000	.0000	-0.0006
#2	.0002	-0.0000	-0.0001	-0.0001	.0000	-0.0006	.0000	-0.0000	.0002

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	-0.0000	.0005	.0195	-0.0004	.0214	.0203	.0199	.4845	-0.0014
Stddev	.0001	.0001	.0009	.0000	.0008	.0005	.0010	.0219	.0026
%RSD	1841.	10.90	4.718	.1735	3.630	2.370	4.908	4.511	184.1
#1	.0001	.0005	.0202	-0.0004	.0208	.0199	.0206	.5000	-0.0033
#2	-0.0001	.0004	.0189	-0.0004	.0219	.0206	.0192	.4691	.0004

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	.5158	.0136	.0533	-0.0031	-0.0000	.0001	.0001	-0.0020	-0.0004
Stddev	.0040	.0045	.0032	.0017	.0007	.0001	.0012	.0002	.0007
%RSD	.7670	32.76	6.012	54.76	1543.	117.3	965.0	9.622	168.0
#1	.5186	.0168	.0510	-0.0043	-0.0004	.0000	-0.0007	-0.0022	-0.0009
#2	.5130	.0104	.0555	-0.0019	.0005	.0002	.0009	-0.0019	.0001

Check ?
Value
Range

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Sample Name: cri Acquired: 7/1/2014 22:14:56 Type: QC
Method: Accutest1(v35) 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	.0041	.0010	.0009	.0033	.0023	.0015	.0032	.0041
Stddev	.0001	.0001	.0001	.0000	.0001	.0001	.0000	.0003
%RSD	2.521	14.07	11.50	.0773	5.884	8.754	.3811	7.206
#1	.0042	.0009	.0009	.0033	.0024	.0014	.0032	.0039
#2	.0040	.0011	.0008	.0032	.0022	.0016	.0032	.0043

Check ?
Value
Range

Elem	Ag3280	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010	.0017	.0115	.0038	.0021	.0025	.0051	.0032
Stddev	.0001	.0000	.0001	.0001	.0003	.0004	.0007	.0001
%RSD	9.040	1.302	.4983	2.956	12.16	17.78	13.93	4.119
#1	.0011	.0018	.0116	.0039	.0023	.0022	.0046	.0031
#2	.0009	.0017	.0115	.0037	.0020	.0028	.0056	.0033

Check ?
Value
Range

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0852	1.015	.0010	.0880	1.996	.9973	.0098	.0002
Stddev	.0071	.002	.0006	.0173	.026	.0035	.0002	.0002
%RSD	8.312	.1691	66.08	19.68	1.306	.3503	1.840	108.3
#1	.0902	1.017	.0005	.0758	1.978	.9997	.0099	.0000
#2	.0802	1.014	.0014	.1003	2.015	.9948	.0097	.0004

Check ?
Value
Range

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Sample Name: crid Acquired: 7/1/2014 22:14:56 Type: QC
Method: Accutest1(v35) 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	-0.009	-0.026	.0004	-0.000	.0002	F -.0016	F .0002	F .0013
Stddev	.0010	.0005	.0003	.0001	.0007	.0004	.0001	.0005
%RSD	108.8	20.48	78.83	130.5	380.9	28.13	37.95	34.91
#1	-.0016	-.0030	.0007	-.0000	.0006	-.0013	.0003	.0010
#2	-.0002	-.0023	.0002	-.0001	-.0003	-.0019	.0002	.0017

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 -.0002	F -.0005
Stddev	.0010	.0001
%RSD	564.9	24.28

#1	.0005	-.0005
#2	-.0009	-.0004

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	68227.	9550.0	2365.8	3605.0
Stddev	100.	47.0	3.3	1.8
%RSD	.14718	.49188	.14027	.04915

#1	68298.	9583.2	2368.2	3606.2
#2	68156.	9516.8	2363.5	3603.7

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Sample Name: ccv Acquired: 7/1/2014 22:21:02 Type: QC
Method: Accutest1(v35) 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	1.958	1.972	1.879	1.988	1.935	2.019	1.944
Stddev	.004	.000	.009	.000	.000	.004	.001
%RSD	.1945	.0179	.4654	.0013	.0199	.2130	.0471

#1	1.961	1.972	1.873	1.988	1.935	2.022	1.945
#2	1.955	1.972	1.885	1.988	1.935	2.016	1.943

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	65430.	9458.9	2259.0	3210.7
Stddev	24.	40.1	1.7	2.5
%RSD	.03593	.42410	.07631	.07737

#1	65413.	9430.6	2257.7	3212.5
#2	65446.	9487.3	2260.2	3209.0

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Sample Name: ccv Acquired: 7/1/2014 22:21:02 Type: QC
Method: Accutest1(v35) 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	1.942	1.960	1.979	2.014	2.013	1.903	2.007	2.029	2.403
Stddev	.004	.006	.003	.005	.001	.007	.003	.005	.0009
%RSD	.1931	.2924	.1390	.2499	.0560	.3816	.1325	.2336	.3616
#1	1.945	1.964	1.981	2.010	2.014	1.897	2.009	2.026	2.397
#2	1.940	1.956	1.977	2.017	2.013	1.908	2.005	2.033	2.409

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	1.984	1.985	1.948	2.097	2.057	1.961	1.985	39.29	39.34
Stddev	.002	.002	.003	.001	.003	.000	.001	.09	.17
%RSD	.1014	.1223	.1465	.0410	.1278	.0154	.0526	.2227	.4373

#1	1.985	1.983	1.946	2.098	2.056	1.961	1.984	39.35	39.46
#2	1.982	1.986	1.950	2.097	2.059	1.962	1.986	39.22	39.22

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	39.09	38.79	38.98	39.22	1.975	2.009	1.973	4.989	2.047
Stddev	.15	.21	.05	.08	.001	.003	.007	.007	.001
%RSD	.3831	.5370	.1362	.2007	.0347	.1242	.3325	.1391	.0661

#1	39.20	38.94	39.01	39.28	1.975	2.007	1.968	4.994	2.046
#2	38.99	38.65	38.94	39.17	1.974	2.011	1.977	4.984	2.048

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: 7/1/2014 22:26:53 Type: QC
Method: Accutest1(v35) 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	.0007	.0005	.0004	.0006	.0005	.0001	.0005	.0006	-0.0005
Stddev	.0001	.0000	.0000	.0002	.0000	.0002	.0000	.0000	.0002
%RSD	13.28	1.977	8.559	27.92	4.250	179.8	5.908	.4477	46.55

#1	.0007	.0005	.0004	.0007	.0005	.0003	.0004	.0006	-.0003
#2	.0008	.0005	.0004	.0005	.0005	-.0000	.0005	.0006	-.0007

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	.0002	-0.003	.0003	.0011	-0.003	.0013	.0109	.0135
Stddev	.0001	.0002	.0009	.0007	.0005	.0014	.0005	.0004	.0004
%RSD	23.02	111.9	299.4	222.8	45.66	525.3	38.11	3.269	32.91

#1	.0003	.0003	-.0010	.0008	.0015	-.0013	.0017	.0106	.0104
#2	.0002	.0000	.0003	-.0002	.0008	.0007	.0010	.0111	.0166

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	.0130	.0139	.0592	.0103	.0014	.0020	.0005	-0.0010	.0005
Stddev	.0042	.0026	.0133	.0051	.0001	.0004	.0019	.0008	.0007
%RSD	31.96	18.95	22.51	49.13	5.461	22.22	395.6	76.63	154.3

#1	.0101	.0157	.0497	.0068	.0014	.0023	.0018	-.0015	-.0000
#2	.0160	.0120	.0686	.0139	.0015	.0017	-.0009	-.0005	.0010

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: 7/1/2014 22:26:53 Type: QC
Method: Accutest1(v35) 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	.0006	.0005	.0062	.0008	-0.0000	.0020	.0005
Stddev	.0001	.0000	.0009	.0002	.0004	.0012	.0001
%RSD	18.52	6.672	14.15	20.15	1078.	61.29	27.13
#1	.0005	.0004	.0068	.0009	-.0003	.0028	.0004
#2	.0006	.0005	.0056	.0007	.0002	.0011	.0006
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	68648.	9655.8	2376.7	3639.2			
Stddev	59.	24.1	.8	2.7			
%RSD	.08573	.24956	.03393	.07416			
#1	68691.	9638.8	2377.2	3637.3			
#2	68607.	9672.9	2376.1	3641.1			

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Sample Name: jb70345-10 Acquired: 7/1/2014 22:32:59 Type: Unknown
Method: Accutest1(v35) Mode: CONC Corr. Factor: 2.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	1.057	.0083	.0025	.0483	.7458	.2362	.8534	.2066	-.0031
StdDev	.000	.0001	.0000	.0003	.0041	.0004	.0009	.0011	.0010
%RSD	.0425	1.515	.5705	.6792	.5498	.1803	.1055	.5152	31.45
#1	1.057	.0084	.0025	.0481	.7487	.2365	.8540	.2058	-.0038
#2	1.057	.0082	.0025	.0485	.7429	.2359	.8527	.2073	-.0024
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.7116	.4069	.0943	.0083	.3966	.0151	-.0058	.382.0	.37.63
StdDev	.0004	.0008	.0023	.0006	.0016	.0053	.0022	1.5	.04
%RSD	.0600	.2070	2.463	7.131	.4150	35.22	37.35	.3908	.1050
#1	.7113	.4063	.0926	.0079	.3978	.0113	-.0074	383.1	37.66
#2	.7119	.4075	.0959	.0088	.3955	.0189	-.0043	381.0	37.60
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.294.4	.17.53	.15.33	.75.52	.0641	.0470	-.0012	.54.59	.0102
StdDev	.6	.04	.04	.31	.0020	.0001	.0000	.18	.0009
%RSD	.2002	.2127	.2887	.4116	3.160	.2697	1.648	.3209	9.950
#1	.294.8	.17.56	.15.36	.75.74	.0655	.0469	-.0012	.54.46	.0095
#2	.294.0	.17.50	.15.30	.75.30	.0627	.0471	-.0012	.54.71	.0109
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.2201	.1810	.0609	-.0087	.2438	.0122	-.1119		
StdDev	.0001	.001	.0036	.0001	.001	.0003	.0002		
%RSD	.0485	.0380	5.953	1.495	.0227	2.330	.2017		
#1	.2202	.1810	.0634	-.0088	2.438	.0120	.1117		
#2	.2201	.1811	.0583	-.0086	2.438	.0124	.1121		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	68179.	10066.	2367.8	3242.9					
StdDev	141.	2	2.5	5.3					
%RSD	.20712	.01944	.10396	.16245					
#1	68279.	10065.	2369.5	3246.6					
#2	68079.	10067.	2366.0	3239.2					

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11.1

Sample Name: jb70345-15 Acquired: 7/1/2014 22:38:55 Type: Unk
Method: Accutest1(v35) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem Avg Stddev %RSD	Ba4554 3.641 .017 .4574	Be3130 .0163 .0001 .4514	Cd2288 .0117 .0002 .1492	Co2286 .1123 .0029 .2542	Cr2677 1.667 .033 .1968	Cu3247 4.798 .0050 .1035	Mn2576 3.019 .051 .1703	Ni2316 .4961 .0072 .1445	Ag3280 -.0032 .0022 .6850	
	#1	3.653	.0163	.0118	.1144	1.690	.4834	3.056	.5012	-.0048
	#2	3.630	.0162	.0116	.1103	1.644	.4763	2.983	.4910	-.0017
Elem Avg Stddev %RSD	V_2924 1.179 .022 .1852	Zn2062 6.024 .105 .1739	As1890 .5235 .0144 .2758	Ti1908 .0386 .0005 .1385	Pb2203 .7992 .0108 .1356	Se1960 .0050 .0054 .1093	Sb2068 -.0127 .0018 .1452	Al3961 641.1 2.5 .3835	Ca3179 130.7 .1 .1016	
	#1	1.194	6.098	.5338	.0389	.8069	.0088	-.0140	642.8	130.8
	#2	1.163	5.949	.5133	.0382	.7916	.0011	-.0114	639.4	130.6
Elem Avg Stddev %RSD	Fe2599 1012. 2. .1976	Mg2790 64.15 .11 .1670	K_7664 26.26 .31 .1196	Na5810 5495.0 3.1 .5708	B_2089 1.240 .0008 .6557	Mo2020 .1557 .0032 .2070	Pd3404 -1.020 .0078 .7678	Si2124 31.74 .52 .1628	Sn1899 .0429 .0038 .8847	
	#1	1014.	64.23	26.48	543.2	.1234	.1580	-.0964	32.11	.0456
	#2	1011.	64.08	26.04	538.8	.1246	.1534	-.1075	31.38	.0402
Elem Avg Stddev %RSD	Sr4077 .4810 .0014 .2818	Ti3349 3.302 .050 .1510	W_2079 .0510 .0005 .9076	Zr3391 .0826 .0020 .2412	S_1820 5.636 .096 .1708	Bi2230 .0840 .0065 .7763	Li6707 .3840 .0041 .1068			
	#1	.4819	3.338	.0507	.0840	5.704	.0886	.3811		
	#2	.4800	3.267	.0513	.0811	5.568	.0794	.3869		
Int. Std. Avg Stddev %RSD	Y_3600 67199. 1075. 1.5993	Y_3710 9651.9 30.6 .31658	Y_2243 2235.5 31.4 1.4059	In2306 3132.3 40.2 1.2833						
	#1	66439.	9630.3	2213.3	3103.8					
	#2	67959.	9673.6	2257.7	3160.7					

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Sample Name: jb70345-16 Acquired: 7/1/2014 22:44:52 Type: Unknown
Method: Accutest1(v35) Mode: CONC Corr. Factor: 2.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	1.496	.0096	.0025	.0886	.7846	.2841	1.808	.1924	-.0066
StdDev	.004	.0003	.0001	.0002	.0033	.0014	.004	.0006	.0016
%RSD	.2692	2.815	4.414	.2380	.4190	.4979	.2493	.3119	24.37
#1	1.493	.0094	.0026	.0885	.7823	.2851	1.805	.1928	-.0078
#2	1.499	.0098	.0024	.0888	.7869	.2831	1.811	.1920	-.0055
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.8618	.3667	.1063	.0084	.3404	.0147	-.2069	353.0	67.02
StdDev	.0022	.0002	.0010	.0031	.0020	.0048	.0024	.6	.01
%RSD	.2542	.0607	.9355	36.85	5855	32.80	34.58	.1576	.0108
#1	.8603	.3665	.1070	.0062	.3390	.0181	-.0052	352.6	67.02
#2	.8634	.3668	.1056	.0106	.3418	.0113	-.0086	353.4	67.01
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	416.8	23.63	14.66	200.7	.0800	.0349	-.0059	57.27	.0056
StdDev	.5	.04	.10	.9	.0005	.0006	.0014	.13	.0005
%RSD	.1099	.1735	.6579	.4530	.6376	1.807	23.59	.2294	8.412
#1	416.5	23.60	14.59	200.0	.0797	.0345	-.0069	57.17	.0053
#2	417.1	23.65	14.73	201.3	.0804	.0354	-.0049	57.36	.0060
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.3686	1.967	.0556	-.0077	7.026	.0257	.1356		
StdDev	.0013	.006	.0038	.0000	.009	.0030	.0013		
%RSD	.3537	.2825	6.766	.3901	.1349	11.80	.9439		
#1	.3677	1.963	.0530	-.0077	7.019	.0236	.1347		
#2	.3695	1.971	.0583	-.0077	7.032	.0279	.1365		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	66024	9851.5	2286.1	3154.6					
StdDev	107.	18.2	5.1	5.8					
%RSD	.16132	.18460	.22457	.18253					
#1	66099.	9864.4	2289.8	3158.7					
#2	65949.	9838.6	2282.5	3150.6					

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Sample Name: jb70345-18 Acquired: 7/1/2014 22:50:48 Type: Unk
Method: Accutest1(v35) Mode: CONC Corr. Factor: 2.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.7856	.0047	.0015	.0270	.4651	.1194	.5275	.1204	.0010
Stddev	.0012	.0000	.0002	.0000	.0016	.0004	.0002	.0000	.0003
%RSD	.1497	.8530	12.17	.1512	.3452	.3397	.0428	.0185	27.16
#1	.7847	.0047	.0017	.0271	.4640	.1191	.5276	.1204	.0008
#2	.7864	.0047	.0014	.0270	.4663	.1196	.5273	.1204	.0011
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.4008	.2158	.0864	.0012	.2627	.0241	-.0014	.233.3	.22.17
Stddev	.0016	.0000	.0031	.0017	.0023	.0041	.0004	.2	.02
%RSD	.3919	.0185	3.573	143.6	.8818	17.04	26.93	.0777	.1114
#1	.3997	.2157	.0886	-.0000	.2644	.0270	-.0011	.233.4	.22.19
#2	.4019	.2158	.0843	.0024	.2611	.0212	-.0017	.233.2	.22.16
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.142.1	.10.25	.10.65	.14.36	.0483	.0295	.0336	.52.33	.0115
Stddev	.2	.09	.05	.02	.0009	.0002	.0006	.05	.0022
%RSD	.1147	.8763	.4977	.1454	1.958	.8276	1.720	.0884	18.72
#1	.142.2	.10.32	.10.69	.14.37	.0477	.0294	.0332	.52.30	.0100
#2	.142.0	.10.19	.10.62	.14.34	.0490	.0297	.0340	.52.37	.0130
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.1942	.1.833	.0489	-.0280	.1482	.0038	.0769		
Stddev	.0002	.005	.0014	.0002	.010	.0008	.0011		
%RSD	.1214	.2570	2.898	.6563	.6726	19.83	1.474		
#1	.1941	.1.836	.0479	-.0279	.1489	.0043	.0761		
#2	.1944	.1.829	.0499	-.0281	.1475	.0033	.0777		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	67755.	9870.5	2341.3	3385.0					
Stddev	284.	11.7	7.9	11.7					
%RSD	.41870	.11846	.33588	.34452					
#1	67955.	9878.8	2346.9	3393.3					
#2	67554.	9862.3	2335.8	3376.8					

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Sample Name: jb70345-19 Acquired: 7/1/2014 22:56:46 Type: Unk
Method: Accutest1(v35) Mode: CONC Corr. Factor: 2.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.9906	.0055	.0017	.0346	.6361	.1578	.7033	.1538	-.0004
Stddev	.0010	.0000	.0003	.0001	.0021	.0010	.0006	.0003	.0005
%RSD	.1045	.4229	19.11	.2529	.3301	.6126	.0848	.2111	117.5
#1	.9913	.0055	.0015	.0345	.6346	.1585	.7029	.1536	-.0008
#2	.9899	.0055	.0019	.0346	.6375	.1572	.7037	.1541	-.0001
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.4886	.2651	.0974	.0059	.3502	.0215	-.0044	.284.7	.26.73
Stddev	.0020	.0013	.0002	.0005	.0020	.0001	.0004	.5	.09
%RSD	.4060	.4921	.2018	8.287	.5706	.5072	10.34	.1674	.3179
#1	.4872	.2642	.0975	.0056	.3487	.0216	-.0039	.285.1	.26.79
#2	.4900	.2660	.0973	.0063	.3516	.0215	-.0045	.284.4	.26.67
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.179.1	.12.11	.12.34	.15.43	.0505	.0380	.0250	.50.30	.0102
Stddev	.5	.02	.05	.06	.0003	.0004	.0032	.03	.0005
%RSD	.2829	.1458	.3951	.3871	.6655	.9353	12.87	.0511	5.277
#1	.179.5	.12.12	.12.30	.15.39	.0508	.0383	.0227	.50.32	.0098
#2	.178.8	.12.10	.12.37	.15.47	.0503	.0378	.0273	.50.28	.0106
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.2284	.1.697	.0455	-.0234	.1.722	.0079	.0910		
Stddev	.0006	.003	.0010	.0000	.003	.0003	.0016		
%RSD	.2475	.1881	2.244	.0589	.1965	3.527	1.736		
#1	.2288	.1.699	.0447	-.0234	.1.719	.0077	.0899		
#2	.2280	.1.695	.0462	-.0234	.1.724	.0081	.0921		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	67289.	9794.9	2339.7	3352.1					
Stddev	120.	124.0	4.0	10.7					
%RSD	.17770	1.2663	.17273	.31855					
#1	67204.	9707.2	2342.5	3359.6					
#2	67373.	9882.6	2336.8	3344.5					

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Sample Name: jb69849-1 Acquired: 7/1/2014 23:02:44 Type: Unk
Method: Accutest1(v35) 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	.0991	.0000	.0000	-.0001	.0001	.0002	.2869	.0010	.0008
Stddev	.0001	.0001	.0001	.0001	.0001	.0004	.0004	.0003	.0002
%RSD	.1364	1200.	153.8	67.66	73.94	216.1	.1509	26.55	28.80
#1	.0992	-.0000	-.0000	-.0001	.0001	.0004	.2872	.0008	.0009
#2	.0990	.0001	.0001	-.0000	.0002	-.0001	.2866	.0012	.0006
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0005	.1185	.0005	-.0035	.0009	.0008	.0010	.0287	.81.17
Stddev	.0004	.0004	.0008	.0004	.0006	.0026	.0019	.0101	.16
%RSD	69.26	.2981	162.6	10.68	60.71	335.3	194.5	35.16	.1971
#1	.0008	.1182	.0010	-.0032	.0005	-.0010	.0024	.0215	.81.05
#2	.0003	.1187	-.0001	-.0038	.0013	.0026	-.0004	.0358	.81.28
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.6683	.5.750	.6.933	.205.5	.1.280	.0018	.0031	.1.271	-.0007
Stddev	.0035	.039	.043	1.4	.0001	.0003	.0008	.000	.0001
%RSD	.5222	.6744	.6130	.6758	.0410	13.97	26.70	.0205	14.57
#1	.6687	5.722	6.963	204.5	.1279	.0017	.0026	1.271	-.0006
#2	.6638	5.777	6.903	206.5	.1280	.0020	.0037	1.271	-.0008
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.6976	.0004	-.0048	-.0005	.18.22	-.0003	.0030		
Stddev	.0003	.0001	.0006	.0000	.04	.0000	.0000		
%RSD	.0482	21.40	12.57	.4311	.1996	13.98	1.310		
#1	.6978	.0003	-.0044	-.0005	18.24	-.0003	.0029		
#2	.6973	.0004	-.0053	-.0005	18.19	-.0003	.0030		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	63610.	9452.8	2179.6	3106.6					
Stddev	27.	3.0	5.1	10.2					
%RSD	.04298	.03148	.23297	.32911					
#1	63590.	9450.7	2183.2	3113.9					
#2	63629.	9454.9	2176.0	3099.4					

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Sample Name: mp80408-mb1 1 Acquired: 7/1/2014 23:08:51 Type: Unk
Method: Accutest1(v35) 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	-.0002	.0001	-.0000	-.0004	.0000	.0008	-.0003
Stddev	.0001	.0000	.0000	.0002	.0001	.0003	.0000	.0001	.0002
%RSD	45.86	2.802	8.156	329.2	407.5	60.85	421.7	9.534	82.95
#1	.0003	-.0000	-.0002	-.0001	-.0001	-.0006	.0000	.0008	-.0005
#2	.0001	-.0000	-.0002	.0003	.0000	-.0002	-.0000	.0009	-.0001
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	-.0003	.0007	.0003	.0018	-.0006	.0001	-.0018	-.0063	.0022
Stddev	.0000	.0001	.0002	.0011	.0010	.0004	.0009	.0061	.0019
%RSD	6.640	12.07	62.04	60.95	155.7	292.0	49.34	96.81	83.00
#1	-.0003	.0007	.0004	.0026	.0001	.0004	-.0012	-.0020	.0009
#2	-.0003	.0006	.0001	.0010	-.0013	-.0002	-.0024	-.0106	.0036
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0040	.0157	.0305	.0180	-.0001	-.0005	.0000	.0049	.0002
Stddev	.0017	.0254	.0354	.0092	.0004	.0001	.0008	.0008	.0001
%RSD	42.61	162.3	116.0	51.30	623.2	18.47	2568.	17.36	36.14
#1	.0052	.0336	.0055	.0245	-.0003	-.0004	-.0005	.0043	.0002
#2	.0028	-.0023	.0556	.0115	.0002	-.0005	.0006	.0055	.0003
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	-.0000	.0004	-.0062	-.0001	.0048	.0025	-.0010		
Stddev	.0000	.0000	.0001	.0000	.0003	.0004	.0008		
%RSD	91.43	10.05	1.527	18.52	5.418	18.08	83.49		
#1	-.0000	.0004	-.0062	-.0001	.0050	.0022	-.0004		
#2	-.0000	.0005	-.0063	-.0001	.0046	.0028	-.0016		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	69291.	9841.4	2391.1	3689.7					
Stddev	108.	41.3	4.0	8.0					
%RSD	.15596	.41921	.16694	.21595					
#1	69367.	9870.6	2393.9	3695.4					
#2	69214.	9812.2	2388.3	3684.1					

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Sample Name: mp80408-lc1 Acquired: 7/1/2014 23:14:57 Type: Unk
Method: Accutest1(v35) 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	.5092	.5047	.5329	.5126	.5266	.4925	.5276	.5271	.2063
Stddev	.0023	.0009	.0005	.0014	.0008	.0008	.0004	.0014	.0002
%RSD	.4589	.1794	.0897	.2658	.1503	.1628	.0840	.2648	.1131
#1	.5108	.5041	.5333	.5116	.5260	.4919	.5273	.5261	.2064
#2	.5075	.5053	.5326	.5136	.5271	.4931	.5279	.5281	.2061
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.5123	.5306	.5283	.5969	.5479	.5574	.5270	5.168	5.713
Stddev	.0005	.0027	.0004	.0028	.0029	.0002	.0011	.008	.023
%RSD	.0913	.5094	.0845	.4672	.5249	.0385	.2036	.1462	.4050
#1	.5119	.5286	.5286	.5950	.5459	.5573	.5262	5.173	5.696
#2	.5126	.5325	.5280	.5989	.5499	.5576	.5277	5.163	5.729
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	5.714	5.423	10.36	10.46	.0094	.5282	-.0014	.0527	.0006
Stddev	.027	.065	.05	.05	.0004	.0019	.0015	.0003	.0003
%RSD	.4799	1.194	.4640	.4846	4.071	.3597	106.5	.5526	50.60
#1	5.694	5.378	10.39	10.50	.0097	.5269	-.0003	.0525	.0004
#2	5.733	5.469	10.33	10.43	.0091	.5296	-.0024	.0529	.0009
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	-.0002	.5214	.0074	.0023	.0051	.0022	-.0012		
Stddev	.0001	.0003	.0008	.0000	.0006	.0004	.0004		
%RSD	33.43	.0547	10.69	1.992	11.16	14.71	36.97		
#1	-.0002	.5212	.0069	.0024	.0047	.0025	-.0009		
#2	-.0001	.5216	.0080	.0023	.0055	.0020	-.0015		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	67885.	9867.1	2332.3	3501.5					
Stddev	220.	45.1	1.8	5.3					
%RSD	.32409	.45747	.07771	.15112					
#1	68040.	9899.0	2333.6	3505.2					
#2	67729.	9835.2	2331.0	3497.7					

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Sample Name: mp80408-s1 Acquired: 7/1/2014 23:20:51 Type: Unk
Method: Accutest1(v35) 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	2.007	.0513	.0552	.5178	.2138	.2613	.5341	.5249	.0511
Stddev	.002	.0002	.0001	.0004	.0009	.0034	.0015	.0004	.0001
%RSD	.1175	.2973	.1774	.0750	.4443	1.297	.2815	.0758	.1325
#1	2.008	.0512	.0552	.5176	.2145	.2589	.5352	.5246	.0511
#2	2.005	.0514	.0551	.5181	.2131	.2637	.5331	.5252	.0512
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.5149	.5340	2.243	2.331	.5515	2.330	.5473	2.461	45.20
Stddev	.0002	.0010	.007	.004	.0001	.003	.0019	.003	.11
%RSD	.0442	.1862	.2967	.1883	.0205	.1363	.3457	.1081	.2446
#1	.5151	.5332	2.238	2.328	.5514	2.328	.5460	2.463	45.12
#2	.5148	.5347	2.247	2.334	.5515	2.332	.5487	2.459	45.28
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	1.612	28.18	29.11	45.07	.1626	.0063	.0043	5.972	-.0019
Stddev	.006	.03	.02	.02	.0004	.0002	.0000	.007	.0011
%RSD	.3915	.1155	.0762	.0513	.2170	3.714	.1394	.1110	59.62
#1	1.607	28.16	29.09	45.06	.1624	.0061	.0043	5.968	-.0011
#2	1.616	28.21	29.12	45.09	.1629	.0065	.0043	5.977	-.0026
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.1137	.0180	.0203	-.0037	4.355	.0029	.0040		
Stddev	.0002	.0006	.0009	.0001	.010	.0000	.0001		
%RSD	.2139	3.336	4.599	1.568	.2201	.5483	1.969		
#1	.1136	.0184	.0196	-.0037	4.349	.0029	.0040		
#2	.1139	.0176	.0209	-.0038	4.362	.0029	.0039		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	66128.	9801.0	2253.1	3290.9					
Stddev	168.	2.8	.7	.2					
%RSD	.25452	.02806	.03110	.00642					
#1	66009.	9803.0	2253.6	3290.8					
#2	66247.	9799.1	2252.6	3291.1					

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Sample Name: ccv Acquired: 7/1/2014 23:26:45 Type: QC
Method: Accutest1(v35) 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	1.951	1.974	1.991	2.024	2.027	1.911	2.022	2.043	.2421
Stddev	.006	.001	.005	.002	.009	.012	.008	.000	.0002
%RSD	.3256	.0239	.2424	.1150	.4294	.6076	.3823	.0100	.0740
#1	1.956	1.975	1.987	2.022	2.033	1.903	2.027	2.043	.2419
#2	1.947	1.974	1.994	2.026	2.021	1.919	2.016	2.043	.2422
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	1.992	1.968	1.965	2.111	2.069	1.978	1.998	39.68	39.55
Stddev	.007	.001	.002	.014	.000	.005	.007	.07	.03
%RSD	.3714	.0512	.0920	.6536	.0179	.2365	.3498	.1829	.0696
#1	1.997	1.995	1.964	2.101	2.069	1.975	1.993	39.74	39.57
#2	1.987	1.997	1.966	2.121	2.070	1.981	2.003	39.63	39.53
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	39.12	38.90	39.19	39.53	1.992	2.027	1.992	5.118	2.061
Stddev	.05	.16	.15	.15	.005	.002	.015	.003	.002
%RSD	.1159	.3996	.3803	.3908	.2433	.1013	.7751	.0662	.1168
#1	39.15	39.01	39.29	39.64	1.989	2.025	1.981	5.116	2.063
#2	39.09	38.79	39.08	39.42	1.996	2.028	2.003	5.121	2.060
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: 7/1/2014 23:26:45 Type: QC
Method: Accutest1(v35) 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	1.969	1.984	1.916	1.999	1.945	2.032	1.961		
Stddev	.005	.004	.005	.003	.004	.002	.008		
%RSD	.2386	.2155	.2445	.1303	.1995	.1187	.3967		
#1	1.973	1.987	1.913	2.001	1.942	2.031	1.966		
#2	1.966	1.981	1.919	1.997	1.948	2.034	1.955		
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	65260.	9435.8	2247.2	3191.9					
Stddev	328.	62.9	1.7	3.7					
%RSD	.50250	.66668	.07721	.11520					
#1	65028.	9391.3	2248.5	3194.5					
#2	65492.	9480.2	2246.0	3189.3					

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Sample Name: ccb Acquired: 7/1/2014 23:32:34 Type: QC
Method: Accutest1(v35) 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	.0001	.0002	.0005	.0004	.0003	.0006	.0001
Stddev	.0002	.0000	.0000	.0000	.0003	.0001	.0000	.0000	.0007
%RSD	34.91	26.91	2.193	14.76	60.81	20.95	13.69	8.163	1056.
#1	.0003	.0001	.0001	.0002	.0003	.0004	.0004	.0005	.0004
#2	.0006	.0002	.0001	.0003	.0007	.0003	.0003	.0006	.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	.0002	.0000	.0004	.0003	.0003	.0007	.0002	.0037	.0037
Stddev	.0000	.0001	.0009	.0003	.0006	.0008	.0004	.0090	.0008
%RSD	22.48	213.6	197.6	94.98	213.2	105.1	239.8	245.3	21.57
#1	.0002	.0001	.0010	.0005	.0007	.0002	.0001	.0101	.0031
#2	.0002	.0000	.0002	.0001	.0001	.0013	.0004	.0027	.0042

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	.0001	.0394	.0049	.0014	.0018	.0011	.0113	.0005
Stddev	.0011	.0052	.0038	.0013	.0003	.0003	.0010	.0003	.0003
%RSD	24.11	4526.	9.643	26.27	18.09	16.52	85.63	2.899	60.94
#1	.0055	.0038	.0421	.0040	.0016	.0021	.0004	.0115	.0003
#2	.0039	.0035	.0367	.0058	.0012	.0016	.0018	.0110	.0007

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: 7/1/2014 23:32:34 Type: QC
Method: Accutest1(v35) 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	.0004	.0090	.0009	.0008	.0021	.0001
Stddev	.0001	.0001	.0007	.0001	.0004	.0006	.0004
%RSD	48.02	14.42	7.368	15.19	51.18	29.05	573.8
#1	.0001	.0004	.0085	.0008	.0005	.0025	.0004
#2	.0002	.0005	.0095	.0010	.0011	.0017	.0002

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	68985.	9523.6	2385.2	3639.2
Stddev	211.	31.6	5.4	9.5
%RSD	.30535	.33191	.22591	.26234
#1	69134.	9545.9	2389.0	3646.0
#2	68836.	9501.2	2381.4	3632.5

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Sample Name: mp80408-s2 Acquired: 7/1/2014 23:38:40 Type: Unk
Method: Accutest1(v35) 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	2.035	.0515	.0559	.5232	.2162	.2653	.5422	.5303	.0521
Stddev	.003	.0003	.0002	.0004	.0010	.0008	.0006	.0004	.0002
%RSD	.1553	.6038	.3034	.0810	.4586	.3043	.1114	.0693	.3870
#1	2.033	.0517	.0558	.5229	.2155	.2659	.5417	.5305	.0520
#2	2.037	.0512	.0561	.5235	.2169	.2648	.5426	.5300	.0523

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5221	.5396	2.267	2.354	.5572	2.358	.5546	2.494	45.86
Stddev	.0003	.0016	.004	.000	.0001	.005	.0008	.030	.13
%RSD	.0642	.2955	.1762	.0065	.0091	.2018	.1424	1.200	.2897
#1	.5219	.5385	2.270	2.354	.5572	2.362	.5552	2.515	45.77
#2	.5223	.5407	2.264	2.354	.5572	2.355	.5541	2.473	45.96

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	1.642	28.39	29.66	46.28	1.688	.0065	.0056	6.218	.0021
Stddev	.004	.18	.12	.09	.0003	.0001	.0002	.019	.0003
%RSD	.2496	.6509	.3925	.1855	.1626	1.795	3.932	.3046	15.23
#1	1.639	28.26	29.58	46.22	1.690	.0065	.0054	6.232	.0018
#2	1.645	28.52	29.74	46.34	1.686	.0064	.0058	6.205	.0023

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1180	.0182	.0239	.0009	4.521	.0044	.0043
Stddev	.0002	.0003	.0001	.0003	.004	.0006	.0009
%RSD	.1896	1.686	.5129	38.38	.0831	13.69	22.17
#1	.1181	.0184	.0238	.0007	4.524	.0039	.0049
#2	.1178	.0179	.0240	.0011	4.519	.0048	.0036

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	66585.	9845.4	2266.3	3312.1
Stddev	10.	51.1	2.1	3.6
%RSD	.01508	.51939	.09383	.10838
#1	66578.	9881.6	2267.8	3314.6
#2	66592.	9809.2	2264.8	3309.5

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Sample Name: jb70452-16 Acquired: 7/1/2014 23:44:31 Type: Unk
Method: Accutest1(v35) 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	.0206	.0001	.0000	.0002	.0037	.0110	.0151	.0024	.0001
Stddev	.0001	.0001	.0002	.0001	.0001	.0003	.0001	.0002	.0002
%RSD	.7154	89.29	436.8	78.68	3.228	2.506	.4129	8.300	307.6
#1	.0207	.0002	.0001	.0003	.0036	.0112	.0151	.0022	.0001
#2	.0205	.0000	.0002	.0001	.0038	.0108	.0150	.0025	.0002

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0044	.0123	.0393	.0006	.0027	.0010	.0019	.3745	20.58
Stddev	.0001	.0003	.0007	.0005	.0004	.0002	.0009	.0011	.05
%RSD	2.331	2.245	1.821	86.14	16.37	21.17	46.47	.2838	.2349
#1	.0045	.0121	.0398	.0010	.0030	.0008	.0013	.3737	20.55
#2	.0043	.0124	.0388	.0002	.0024	.0011	.0025	.3753	20.61

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.5447	3.110	3.124	18.62	.1607	.0053	.0052	5.704	.0009
Stddev	.0003	.046	.011	.02	.0002	.0000	.0008	.004	.0002
%RSD	.0481	1.481	.3590	.0989	.1450	.1116	15.86	.0706	20.53
#1	.5445	3.077	3.116	18.63	.1605	.0053	.0046	5.701	.0008
#2	.5449	3.142	3.132	18.60	.1608	.0053	.0058	5.707	.0010

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1143	.0130	.0015	.0047	4.294	.0033	.0026
Stddev	.0005	.0001	.0000	.0000	.007	.0008	.0004
%RSD	.4736	1.142	2.920	.7190	.1624	24.01	16.05
#1	.1146	.0129	.0014	.0047	4.299	.0038	.0029
#2	.1139	.0131	.0015	.0048	4.289	.0027	.0023

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	67779.	9823.3	2338.7	3540.2
Stddev	71.	4.6	3.1	2.6
%RSD	.10464	.04687	.13429	.07404
#1	67728.	9820.0	2340.9	3542.1
#2	67829.	9826.5	2336.5	3538.4

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Sample Name: mp80408-sd1 Acquired: 7/1/2014 23:50:32 Type: Unk
Method: Accutest1(v35) 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	.0222	-0.0000	-0.0002	.0004	.0040	.0083	.0150	.0044	-0.0004
Stddev	.0015	.0002	.0005	.0005	.0009	.0005	.0000	.0009	.0020
%RSD	6.535	565.1	214.4	106.8	21.33	5.511	.0305	19.37	446.0
#1	.0232	.0001	.0001	.0001	.0034	.0086	.0150	.0051	.0009
#2	.0212	-.0002	-.0006	.0008	.0046	.0079	.0150	.0038	-.0018
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0027	.0241	.0414	-0.0019	.0027	.0040	.0045	.3471	20.79
Stddev	.0023	.0006	.0001	.0034	.0024	.0033	.0017	.0184	.05
%RSD	83.25	2.570	.2886	178.3	90.64	83.33	38.35	5.298	.2587
#1	.0011	.0246	.0413	.0005	.0044	.0017	.0058	.3601	20.83
#2	.0043	.0237	.0415	-.0043	.0010	.0064	.0033	.3341	20.75
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.5527	3.041	2.999	17.95	.1469	.0058	.0093	5.540	-0.0019
Stddev	.0104	.101	.082	.00	.0022	.0007	.0032	.018	.0006
%RSD	1.880	3.306	2.720	.0110	1.485	11.58	34.37	.3238	31.04
#1	.5600	2.970	3.056	17.95	.1484	.0053	.0115	5.527	-.0023
#2	.5454	3.112	2.941	17.95	.1454	.0063	.0070	5.552	-.0015
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.1130	.0134	.0091	-0.0030	3.977	.0042	-0.0010		
Stddev	.0005	.0005	.0040	.0008	.024	.0023	.0008		
%RSD	.4502	3.635	44.02	25.81	.5962	55.66	77.42		
#1	.1126	.0131	.0063	-.0024	3.961	.0025	-.0004		
#2	.1134	.0138	.0120	-.0035	3.994	.0058	-.0015		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	68334.	9673.9	2370.9	3619.3					
Stddev	31.	85.0	3.6	.8					
%RSD	.04504	.87877	.15295	.02176					
#1	68312.	9613.8	2373.4	3619.9					
#2	68356.	9734.0	2368.3	3618.8					

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Sample Name: mp80408-s3 Acquired: 7/1/2014 23:56:34 Type: Unk
Method: Accutest1(v35) 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	1.814	.0461	.0498	.4662	.1967	.2442	.5283	.4733	.0473
Stddev	.005	.0002	.0002	.0004	.0202	.0253	.0523	.0002	.0045
%RSD	.2569	.4457	.3479	.0777	10.29	10.35	9.908	.0365	9.418
#1	1.817	.0462	.0499	.4665	.1824	.2263	.4913	.4732	.0442
#2	1.810	.0459	.0496	.4660	.2110	.2621	.5653	.4735	.0505
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.4769	.4849	2.000	2.097	.4966	2.111	.4881	2.418	51.17
Stddev	.0489	.0005	.002	.001	.0001	.000	.0012	.017	.16
%RSD	10.26	.0964	.0805	.0539	.0184	.0074	.2482	.7163	.3145
#1	.4423	.4845	2.001	2.098	.4967	2.111	.4890	2.431	51.28
#2	.5114	.4852	1.999	2.096	.4966	2.111	.4872	2.406	51.05
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	1.884	28.09	26.48	38.04	.1907	.0074	.0060	6.826	-0.0017
Stddev	.005	.07	.08	.12	.0001	.0001	.0008	.011	.0002
%RSD	.2481	.2646	.2928	.3218	.0566	1.446	13.69	.1644	9.580
#1	1.887	28.04	26.53	38.13	.1907	.0073	.0066	6.834	-.0016
#2	1.881	28.14	26.42	37.96	.1906	.0075	.0055	6.819	-.0018
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.1298	.0245	.0171	-0.0042	6.446	.0037	.0049		
Stddev	.0001	.0029	.0012	.0003	.020	.0011	.0007		
%RSD	.1085	11.67	6.904	7.581	.3023	28.92	13.65		
#1	.1299	.0224	.0163	-.0045	6.460	.0045	.0054		
#2	.1297	.0265	.0179	-.0040	6.433	.0030	.0044		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	65122.	9832.8	2272.9	3321.5					
Stddev	5995.	11.8	3.9	5.3					
%RSD	9.2053	.11966	.17279	.15859					
#1	69360.	9841.1	2275.7	3325.2					
#2	60883.	9824.5	2270.1	3317.8					

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Sample Name: jb70452-17 Acquired: 7/2/2014 0:02:25 Type: Unk
Method: Accutest1(v35) 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	.0323	.0001	.0000	.0004	.0024	.0087	.0425	.0024	-0.0001
Stddev	.0003	.0000	.0001	.0000	.0003	.0000	.0001	.0000	.0004
%RSD	.8041	38.00	214.1	11.24	10.94	.2860	1.173	1.173	268.0
#1	.0324	.0001	-.0000	.0003	.0022	.0087	.0426	.0024	.0001
#2	.0321	.0001	.0001	.0004	.0026	.0087	.0425	.0024	-.0004
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0025	.0100	.0078	.0011	.0044	.0013	.0001	.4829	28.33
Stddev	.0003	.0001	.0009	.0008	.0001	.0010	.0003	.0079	.06
%RSD	13.10	.9618	10.96	73.97	1.444	78.66	209.2	1.636	.2045
#1	.0023	.0100	.0072	.0017	.0044	.0020	-.0001	.4885	28.37
#2	.0028	.0099	.0084	.0005	.0045	.0006	.0004	.4773	28.29
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.8627	5.407	3.177	13.98	.1841	.0066	.0073	6.355	-0.0018
Stddev	.0002	.021	.057	.11	.0000	.0001	.0000	.009	.0002
%RSD	.0257	.3981	1.800	.7953	.0044	1.175	.0515	.1344	12.43
#1	.8625	5.392	3.217	14.06	.1841	.0065	.0073	6.349	-.0016
#2	.8628	5.422	3.136	13.90	.1841	.0066	.0073	6.362	-.0019
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.1273	.0197	-0.0021	-0.0055	6.150	.0028	.0045		
Stddev	.0008	.0001	.0004	.0000	.000	.0002	.0001		
%RSD	.6351	.6235	20.25	.4777	.0021	6.829	3.210		
#1	.1279	.0198	-.0024	-.0055	6.150	.0027	.0044		
#2	.1267	.0197	-.0018	-.0055	6.150	.0030	.0046		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	68317.	9929.3	2341.4	3530.3					
Stddev	234.	19.5	3.3	.1					
%RSD	.34227	.19592	.14165	.00310					
#1	68482.	9915.5	2343.7	3530.3					
#2	68152.	9943.0	2339.0	3530.2					

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Sample Name: jb70452-8 Acquired: 7/2/2014 0:08:27 Type: Unk
Method: Accutest1(v35) 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	.0308	.0001	-0.0001	-0.0000	.0017	.0033	.0124	.0014	-0.0000
Stddev	.0001	.0000	.0000	.0002	.0004	.0001	.0001	.0001	.0009
%RSD	.2527	49.88	25.05	.2255	21.89	4.304	.6163	5.553	5066.
#1	.0307	.0001	-.0001	-.0001	.0019	.0032	.0123	.0015	-.0006
#2	.0309	.0000	-.0001	.0001	.0014	.0034	.0124	.0013	.0006
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0004	.0358	.0106	.0018	.0020	.0015	.0011	.1068	17.76
Stddev	.0003	.0358	.0129	.0011	.0035	.0020	.0007	.1027	17.76
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.1470	3.918	1.932	52.90	.2075	.0002	.0088	7.279	-0.0021
Stddev	.0015	.027	.021	.25	.0006	.0000	.0004	.012	.0001
%RSD	1.041	.6890	1.113	.4751	.2905	1.681	4.735	.1608	4.714
#1	.1459	3.899	1.917	52.72	.2079	.0002	.0090	7.287	-.0021
#2	.1481	3.937	1.948	53.07	.2071	.0002	.0085	7.271	-.0020
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.1164	.0036	-0.0001	-0.0066	8.595	.0027	.0017		
Stddev	.0001	.0001	.0003	.0001	.013	.0003	.0004		
%RSD	.0927	1.899	243.4	2.043	.1518	12.85	25.93		
#1	.1164	.0035	.0001	-.0067	8.604	.0025	.0014		
#2	.1163	.0036	-.0003	-.0065	8.585	.0029	.0020		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	67318.	9879.4	2324.6	3473.0					
Stddev	18.	32.8	5.5	11.2					
%RSD	.02674	.33186	.23451	.32246					
#1	67331.	9856.2	2328.4	3480.9					
#2	67306.	9902.6	2320.7	3465.0					

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Sample Name: jb70452-9 Acquired: 7/2/2014 0:14:28 Type: Unk
Method: Accutest1(v35) 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	.0551	.0001	.0000	.0006	.0014	.0042	.1088	.0021	.0005
Stddev	.0007	.0001	.0002	.0001	.0003	.0003	.0004	.0001	.0001
%RSD	1.267	159.2	528.0	10.98	21.00	7.036	.3849	5.295	12.10
#1	.0556	.0001	.0002	.0006	.0016	.0040	.1091	.0020	.0005
#2	.0546	.0000	.0001	.0005	.0012	.0045	.1085	.0022	.0004
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0029	.0132	.0038	.0006	.0044	.0022	.0012	.4287	25.48
Stddev	.0000	.0001	.0001	.0011	.0015	.0003	.0007	.0014	.08
%RSD	.6620	.5636	2.470	178.8	33.38	11.56	62.93	.3193	.3294
#1	.0029	.0132	.0038	.0002	.0033	.0020	.0017	.4297	25.54
#2	.0029	.0131	.0037	.0014	.0054	.0024	.0007	.4277	25.42
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.8367	6.479	1.721	31.81	.0731	.0005	.0046	4.005	.0015
Stddev	.0076	.084	.006	.15	.0007	.0001	.0008	.001	.0003
%RSD	.9053	1.292	.3502	.4821	.9619	31.61	17.92	.0122	18.11
#1	.8313	6.538	1.725	31.91	.0736	.0004	.0040	4.005	.0017
#2	.8420	6.420	1.716	31.70	.0726	.0006	.0050	4.004	.0013
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.1569	.0180	.0045	.0035	5.646	.0030	.0025		
Stddev	.0003	.0000	.0006	.0002	.003	.0006	.0011		
%RSD	.2119	.2045	14.40	4.975	.0597	21.43	42.78		
#1	.1572	.0180	.0040	.0036	5.648	.0025	.0033		
#2	.1567	.0181	.0050	.0034	5.644	.0034	.0017		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	67477.7	97777.2	23309.9	3488.7					
Stddev	262.	30.9	1.1	4.9					
%RSD	.38800	.31569	.04531	.14159					
#1	67292.	9755.4	2331.6	3485.2					
#2	67662.	9799.0	2330.2	3492.2					

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Sample Name: jb70452-10 Acquired: 7/2/2014 0:20:30 Type: Unk
Method: Accutest1(v35) 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	.0159	.0000	.0002	.0003	.0022	.0090	.0078	.0017	.0004
Stddev	.0001	.0000	.0001	.0001	.0003	.0003	.0000	.0000	.0000
%RSD	.3551	613.0	30.18	30.21	15.85	3.035	.3731	1.511	7.651
#1	.0159	.0000	.0003	.0004	.0024	.0088	.0078	.0017	.0005
#2	.0159	.0000	.0002	.0003	.0019	.0092	.0078	.0017	.0004
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0030	.0055	.0144	.0014	.0023	.0008	.0016	.3038	18.44
Stddev	.0001	.0000	.0005	.0010	.0006	.0008	.0009	.0063	.09
%RSD	3.279	.6899	3.159	74.62	27.60	108.9	57.25	2.062	.4659
#1	.0029	.0055	.0141	.0021	.0019	.0014	.0010	.2994	18.50
#2	.0031	.0055	.0147	.0007	.0028	.0002	.0023	.3082	18.38
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.4139	2.957	3.444	10.48	.1591	.0051	.0052	5.368	.0012
Stddev	.0011	.006	.005	.03	.0003	.0001	.0008	.005	.0004
%RSD	.2767	.2201	.1518	.2711	.1922	2.089	15.82	.0895	33.24
#1	.4131	2.962	3.440	10.50	.1589	.0050	.0046	5.371	.0009
#2	.4147	2.952	3.448	10.46	.1593	.0052	.0057	5.364	.0015
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0936	.0108	.0023	.0047	3.364	.0014	.0035		
Stddev	.0003	.0002	.0010	.0000	.004	.0000	.0007		
%RSD	.3683	1.653	45.00	.8654	.1271	1.265	19.91		
#1	.0938	.0110	.0030	.0047	3.367	.0014	.0040		
#2	.0933	.0107	.0015	.0046	3.361	.0014	.0030		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	68573.3	9953.5	2349.9	3578.2					
Stddev	333.	13.1	7.6	10.5					
%RSD	.48570	.13114	.32229	.29335					
#1	68808.	9944.3	2355.2	3585.6					
#2	68337.	9962.7	2344.5	3570.8					

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Sample Name: jb70452-11 Acquired: 7/2/2014 0:26:31 Type: Unk
Method: Accutest1(v35) 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	.0651	.0000	.0000	.0003	.0009	.0046	.1154	.0020	.0003
Stddev	.0001	.0000	.0000	.0001	.0002	.0001	.0005	.0000	.0001
%RSD	.0884	38.61	60.88	23.49	20.95	2.121	.4067	1.039	22.50
#1	.0651	.0000	.0000	.0003	.0007	.0046	.1150	.0020	.0003
#2	.0650	.0000	.0000	.0004	.0010	.0045	.1157	.0020	.0002
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0031	.0162	.0036	.0008	.0040	.0002	.0008	.2701	30.98
Stddev	.0002	.0003	.0010	.0004	.0007	.0024	.0006	.0008	.03
%RSD	5.261	1.547	28.41	43.57	17.90	1121.	71.99	.3026	.0985
#1	.0032	.0164	.0043	.0011	.0045	.0015	.0004	.2695	30.95
#2	.0030	.0160	.0029	.0006	.0035	.0019	.0012	.2707	31.00
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.6679	7.988	2.183	39.50	.0938	.0008	.0038	4.498	.0018
Stddev	.0041	.033	.027	.01	.0009	.0003	.0005	.012	.0002
%RSD	.6186	.4178	1.237	.0247	.9514	44.65	12.50	.2680	12.77
#1	.6708	8.011	2.202	39.51	.0945	.0010	.0042	4.506	.0020
#2	.6650	7.964	2.164	39.49	.0932	.0005	.0035	4.489	.0017
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.1909	.0098	.0049	.0042	7.209	.0030	.0039		
Stddev	.0003	.0007	.0002	.0000	.008	.0007	.0001		
%RSD	.1450	7.243	4.345	.4203	.1171	24.67	3.442		
#1	.1907	.0103	.0051	.0042	7.215	.0025	.0038		
#2	.1911	.0093	.0048	.0042	7.203	.0036	.0040		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	67342.	9866.0	2304.5	3441.5					
Stddev	169.	2.3	9.5	16.3					
%RSD	.25141	.02332	.41374	.47468					
#1	67462.	9867.7	2311.3	3453.1					
#2	67222.	9864.4	2297.8	3430.0					

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Sample Name: jb70452-12 Acquired: 7/2/2014 0:32:33 Type: Unk
Method: Accutest1(v35) 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	.4551	.0008	.0018	.0090	.0410	.2479	6.701	.0463	.0027
Stddev	.0014	.0000	.0001	.0001	.0005	.0002	.082	.0001	.0002
%RSD	.3163	1.825	6.064	.6821	1.303	.0989	1.217	.1705	6.194
#1	.4541	.0008	.0019	.0090	.0414	.2477	6.643	.0463	.0026
#2	.4561	.0008	.0017	.0089	.0406	.2481	6.758	.0462	.0028
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0262	.8211	.0320	.0004	.1173	.0086	.0008	10.75	144.1
Stddev	.0002	.0008	.0015	.0013	.0001	.0002	.0013	.02	.4
%RSD	.7244	.0943	4.628	302.5	.0786	2.299	161.1	.1712	.3027
#1	.0263	.8205	.0330	.0005	.1174	.0087	.0001	10.74	144.4
#2	.0261	.8216	.0309	.0013	.1172	.0084	.0017	10.76	143.8
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	14.18	19.13	3.542	51.28	.3089	.0035	.0136	17.36	.0002
Stddev	.01	.06	.038	.48	.0006	.0002	.0002	.02	.0002
%RSD	.0886	.3123	1.070	.9268	.1988	6.960	1.286	.1222	107.7
#1	14.19	19.17	3.516	50.95	.3085	.0037	.0135	17.38	.0003
#2	14.17	19.09	3.569	51.62	.3094	.0033	.0138	17.35	.0000
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.3092	.2022	.0001	.0139	9.511	.0063	.0095		
Stddev	.0011	.0013	.0002	.0000	.005	.0004	.0001		
%RSD	.3546	.6252	212.2	.2476	.0532	5.682	.6889		
#1	.3084	.2013	.0000	.0140	9.514	.0066	.0094		
#2	.3100	.2030	.0002	.0139	9.507	.0060	.0095		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	66417.7	9907.1	2276.9	3193.8					
Stddev	22.	52.3	.6	1.0					
%RSD	.03345	.52779	.02507	.03093					
#1	66432.	9870.1	2276.5	3194.5					
#2	66401.	9944.1	2277.3	3193.1					

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Sample Name: ccv Acquired: 7/2/2014 0:38:38 Type: QC									
Method: Accutest1(v35) 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	1.930	1.943	1.946	1.995	1.998	1.890	1.992	2.011	2.384
Stddev	.003	.007	.009	.001	.001	.002	.002	.002	.0008
%RSD	.1314	.3823	.4728	.0723	.0474	.1208	.0957	.0753	.3232
#1	1.932	1.938	1.953	1.996	1.997	1.892	1.994	2.010	2.389
#2	1.928	1.948	1.940	1.994	1.999	1.889	1.991	2.012	2.378
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	1.968	1.967	1.922	2.071	2.039	1.936	1.952	39.16	38.99
Stddev	.000	.000	.005	.004	.002	.009	.012	.14	.10
%RSD	.0005	.0140	.2736	.2138	.0741	.4904	.6212	.3540	.2643
#1	1.968	1.967	1.926	2.074	2.038	1.942	1.961	39.07	38.92
#2	1.968	1.967	1.918	2.068	2.040	1.929	1.944	39.26	39.07
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	38.59	38.23	38.77	39.15	1.951	1.983	1.963	4.991	2.022
Stddev	.11	.02	.03	.03	.006	.004	.008	.023	.006
%RSD	.2868	.0500	.0898	.0768	.3196	.2268	.3883	.4632	.3025
#1	38.51	38.21	38.80	39.13	1.956	1.986	1.968	5.007	2.026
#2	38.67	38.24	38.75	39.18	1.947	1.980	1.957	4.975	2.017
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: 7/2/2014 0:38:38 Type: QC									
Method: Accutest1(v35) 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	1.947	1.957	1.877	1.973	1.906	1.986	1.940		
Stddev	.001	.003	.000	.001	.005	.011	.001		
%RSD	.0442	.1289	.0019	.0368	.2713	.5673	.0479		
#1	1.947	1.959	1.877	1.973	1.910	1.994	1.941		
#2	1.946	1.955	1.877	1.972	1.903	1.978	1.940		
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	65985.	9540.8	2287.1	3239.6					
Stddev	29.	38.7	7.6	3.8					
%RSD	.04428	.40593	.33024	.11623					
#1	65964.	9568.2	2281.8	3237.0					
#2	66006.	9513.4	2292.5	3242.3					

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Sample Name: ccb Acquired: 7/2/2014 0:44:28 Type: QC									
Method: Accutest1(v35) 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	.0003	.0001	.0005	.0002	.0003	.0003	.0002	.0008
Stddev	.0004	.0002	.0000	.0002	.0001	.0003	.0000	.0001	.0001
%RSD	94.35	59.18	2.159	31.08	39.41	105.2	4.897	74.26	12.51
#1	.0001	.0002	.0001	.0006	.0001	.0001	.0003	.0002	.0009
#2	.0007	.0004	.0001	.0004	.0003	.0005	.0003	.0001	.0008
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	.0009	.0006	.0004	.0002	.0014	.0010	.0014	.0075
Stddev	.0002	.0000	.0004	.0000	.0011	.0016	.0007	.0079	.0009
%RSD	552.7	1.162	58.32	12.42	583.7	115.4	66.30	562.2	12.58
#1	.0002	.0009	.0009	.0004	.0009	.0003	.0015	.0042	.0082
#2	.0001	.0009	.0004	.0003	.0006	.0026	.0005	.0070	.0069
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	.0052	.0047	.0199	.0002	.0016	.0017	.0002	.0075	.0002
Stddev	.0012	.0104	.0059	.0038	.0001	.0005	.0001	.0002	.0004
%RSD	22.74	220.0	29.55	2097.	8.678	27.79	74.57	2.070	191.8
#1	.0060	.0026	.0157	.0025	.0017	.0020	.0002	.0076	.0005
#2	.0043	.0121	.0240	.0029	.0015	.0013	.0001	.0074	.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: 7/2/2014 0:44:28 Type: QC									
Method: Accutest1(v35) 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	.0008	.0088	.0011	.0004	.0025	.0005		
Stddev	.0000	.0001	.0013	.0001	.0010	.0002	.0003		
%RSD	23.15	17.82	14.44	10.92	224.8	7.776	54.81		
#1	.0002	.0007	.0097	.0012	.0011	.0027	.0007		
#2	.0001	.0008	.0079	.0010	.0003	.0024	.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	69642.	9755.4	2406.4	3666.0					
Stddev	95.	13.3	1.4	1.7					
%RSD	.13654	.13638	.05877	.04641					
#1	69575.	9746.0	2405.4	3667.2					
#2	69709.	9764.8	2407.4	3664.8					

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Sample Name: jb70452-13 Acquired: 7/2/2014 0:50:33 Type: Unk
Method: Accutest1(v35) 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	.0236	.0001	-0.000	.0008	.0044	.0141	.0510	.0037	-0.003
Stddev	.0002	.0000	.0000	.0000	.0003	.0001	.0002	.0000	.0003
%RSD	.6647	17.09	21.52	1.100	6.288	.6160	.4814	.5686	106.1
#1	.0237	.0001	-0.000	.0008	.0042	.0141	.0512	.0037	-0.005
#2	.0235	.0001	-0.000	.0008	.0046	.0140	.0508	.0037	-0.001
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0053	.0305	.0441	.0019	.0061	.0010	.0016	.8233	18.22
Stddev	.0001	.0001	.0008	.0003	.0005	.0000	.0008	.0188	.04
%RSD	2.497	.2870	1.910	15.84	7.720	4.959	50.23	2.284	.2219
#1	.0052	.0305	.0435	.0021	.0058	.0010	.0011	.8100	18.19
#2	.0054	.0304	.0447	.0017	.0065	.0009	.0022	.8366	18.25
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	1.314	2.962	2.819	15.98	.1528	.0047	.0056	5.884	-0.012
Stddev	.006	.021	.010	.04	.0003	.0000	.0007	.006	.0003
%RSD	.4649	.7040	.3418	.2696	.2064	.5592	11.99	.1069	22.58
#1	1.309	2.947	2.825	16.01	.1526	.0047	.0052	5.880	-0.014
#2	1.318	2.977	2.812	15.95	.1530	.0047	.0061	5.889	-0.010
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.1017	.0380	.0001	-0.0046	3.823	.0033	.0037		
Stddev	.0001	.0000	.0004	.0001	.005	.0002	.0007		
%RSD	.0596	.0428	272.5	1.242	.1260	6.364	17.85		
#1	.1016	.0380	.0004	-0.0046	3.820	.0035	.0032		
#2	.1017	.0380	-0.001	-0.0046	3.827	.0032	.0041		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	68562.	9983.8	2373.0	3589.3					
Stddev	49.	63.3	3.4	3.9					
%RSD	.07152	.63442	.14535	.10855					
#1	68597.	10029.	2375.4	3592.0					
#2	68527.	9939.0	2370.5	3586.5					

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Sample Name: jb70452-14 Acquired: 7/2/2014 0:56:34 Type: Unk
Method: Accutest1(v35) 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	.0791	.0003	.0014	.0029	.0091	.0201	.7614	.0084	.0002
Stddev	.0002	.0000	.0000	.0001	.0000	.0005	.0010	.0002	.0004
%RSD	.2210	8.341	3.132	4.244	.0837	2.448	.1300	2.503	222.7
#1	.0789	.0003	.0014	.0029	.0091	.0197	.7621	.0086	-0.001
#2	.0792	.0002	.0014	.0030	.0091	.0204	.7607	.0083	.0005
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0113	.0898	.0417	.0001	.0306	.0034	.0018	3.030	23.93
Stddev	.0003	.0002	.0003	.0004	.0007	.0022	.0003	.008	.10
%RSD	2.773	.2246	.6050	270.2	2.165	64.69	15.00	.2681	.4022
#1	.0115	.0899	.0415	-0.001	.0302	.0049	.0019	3.025	23.86
#2	.0111	.0896	.0419	.0004	.0311	.0018	.0016	3.036	24.00
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	4.880	5.097	1.885	16.57	.1583	.0037	.0090	9.870	-0.011
Stddev	.042	.022	.031	.08	.0000	.0000	.0003	.014	.0002
%RSD	.8529	.4389	1.633	.4680	.0034	.2754	2.819	.1434	15.57
#1	4.851	5.081	1.907	16.63	.1583	.0037	.0092	9.880	-0.012
#2	4.909	5.113	1.863	16.52	.1583	.0036	.0088	9.860	-0.009
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.1067	.1399	.0031	-0.0078	4.567	.0030	.0044		
Stddev	.0001	.0004	.0006	.0000	.009	.0010	.0009		
%RSD	.1347	.2900	19.96	.3588	.1978	34.25	20.41		
#1	.1068	.1397	.0027	-0.0078	4.573	.0037	.0051		
#2	.1066	.1402	.0036	-0.0077	4.560	.0023	.0038		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	68854.	9956.6	2371.9	3543.0					
Stddev	73.	45.9	2.3	5.6					
%RSD	.10549	.46093	.09648	.15721					
#1	68906.	9989.0	2373.5	3546.9					
#2	68803.	9924.1	2370.3	3539.0					

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Sample Name: jb70452-15 Acquired: 7/2/2014 1:02:32 Type: Unk
Method: Accutest1(v35) 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	.0994	.0001	.0001	.0002	.0014	.0133	.0765	.0036	.0005
Stddev	.0006	.0001	.0001	.0000	.0002	.0001	.0003	.0000	.0003
%RSD	.5792	108.8	116.3	19.57	15.42	.8007	.3338	.8772	59.31
#1	.0990	.0001	.0002	.0002	.0012	.0133	.0763	.0035	.0008
#2	.0998	.0000	.0000	.0001	.0015	.0132	.0767	.0036	.0003
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0027	.0360	.0216	.0000	.0050	.0013	.0097	.2336	59.38
Stddev	.0004	.0001	.0004	.0007	.0001	.0006	.0002	.0006	.05
%RSD	15.96	.3941	2.073	2078.0	2.067	45.35	2.512	.2426	.0817
#1	.0024	.0361	.0219	-0.0005	.0049	.0009	.0099	.2332	59.34
#2	.0030	.0359	.0213	.0005	.0050	.0018	.0095	.2340	59.41
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.4636	7.683	4.189	66.01	.2688	.0047	.0099	7.382	-0.014
Stddev	.0001	.003	.014	.13	.0007	.0000	.0005	.016	.0005
%RSD	.0149	.0438	.3223	.2023	.2452	1.008	4.685	.2152	40.07
#1	.4636	7.681	4.179	65.91	.2683	.0047	.0103	7.371	-0.017
#2	.4637	7.685	4.198	66.10	.2692	.0048	.0096	7.393	-0.010
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.2908	.0097	-0.0049	-0.0067	19.34	.0043	.0068		
Stddev	.0008	.0002	.0004	.0001	.04	.0001	.0009		
%RSD	.2880	1.894	7.498	2.015	.1974	3.332	12.88		
#1	.2902	.0098	-0.0052	-0.0066	19.31	.0044	.0074		
#2	.2914	.0096	-0.0047	-0.0068	19.37	.0042	.0062		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	66465.	9855.2	2270.1	3362.3					
Stddev	255.	31.4	9.4	16.2					
%RSD	.38386	.31813	.41421	.48327					
#1	66645.	9877.3	2276.8	3373.8					
#2	66285.	9833.0	2263.5	3350.9					

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Sample Name: jb70452-8f Acquired: 7/2/2014 1:08:33 Type: Unk
Method: Accutest1(v35) 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	.0274	.0001	-0.0001	-0.0002	.0008	.0019	.0012	.0012	-0.0001
Stddev	.0000	.0000	.0001	.0001	.0003	.0001	.0001	.0001	.0002
%RSD	.1593	20.56	99.82	67.70	42.29	6.843	7.012	6.251	197.8
#1	.0273	.0001	-0.0000	-0.0001	.0006	.0020	.0012	.0012	-0.0002
#2	.0274	.0000	-0.0002	-0.0003	.0011	.0018	.0011	.0011	.0000
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0000	.0256	.0109	.0013	.0025	.0031	-0.0001	.0211	16.58
Stddev	.0001	.0002	.0003	.0008	.0005	.0002	.0001	.0100	.08
%RSD	205.8	.7741	2.992	62.10	21.12	6.160	86.09	47.64	.4977
#1	.0001	.0254	.0111	.0019	.0028	.0032	-0.0001	.0282	16.52
#2	-0.0000	.0257	.0107	.0007	.0021	.0030	-0.0000	.0140	16.64
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0266	3.643	1.806	50.41	.1970	.0004	.0086	6.859	-0.015
Stddev	.0045	.024	.000	.10	.0004	.0001	.0002	.010	.0002
%RSD	16.76	.6595	.0134	.1962	.1870	30.48	2.213	.1429	10.87
#1	.0234	3.626	1.806	50.48	.1967	.0003	.0084	6.852	-0.016
#2	.0297	3.660	1.806	50.34	.1973	.0005	.0087	6.866	-0.014
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.1093	.0006	-0.0003	-0.0062	8.173	.0014	.0014		
Stddev	.0000	.0001	.0003	.0001	.024	.0005	.0005		
%RSD	.0187	20.07	96.67	1.839	.2886	32.44	38.75		
#1	.1093	.0006	-0.0001	-0.0062	8.157	.0017	.0018		
#2	.1093	.0007	-0.0006	-0.0061	8.190	.0011	.0010		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	67385.	9868.2	2319.3	3472.0					
Stddev	230.	87.1	2.9	4.1					
%RSD	.34188	.88275	.12322	.11706					
#1	67548.	9929.8	2321.3	3474.8					
#2	67222.	9806.6	2317.3	3469.1					

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Sample Name: jb70452-9f Acquired: 7/2/2014 1:14:34 Type: Unk
Method: Accutest1(v35) 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	.0584	-0.000	-0.001	-0.000	.0001	.0037	.0228	.0016	.0003
Stddev	.0003	.0001	.0002	.0000	.0000	.0001	.0002	.0000	.0002
%RSD	.4686	526.6	166.1	48.64	26.83	2.705	.9876	2.504	75.02

#1	.0586	.0000	.0000	-0.000	.0001	.0038	.0229	.0016	.0001
#2	.0582	-0.001	-0.003	-0.000	.0001	.0036	.0226	.0016	.0004

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0017	.0050	.0040	-0.001	.0010	.0010	.0000	.0335	31.15
Stddev	.0000	.0001	.0000	.0012	.0001	.0005	.0003	.0036	.01
%RSD	1.718	1.127	.9498	906.6	12.75	46.72	2656.	10.79	.0203

#1	.0017	.0050	.0040	-0.010	.0009	.0006	.0002	.0361	31.16
#2	.0018	.0049	.0040	.0007	.0011	.0013	-0.002	.0310	31.15

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0095	7.789	2.082	39.80	.0921	.0007	.0046	4.159	-0.015
Stddev	.0019	.006	.015	.16	.0002	.0001	.0012	.003	.0008
%RSD	1.901	.0806	.7401	.4103	.1649	11.23	25.79	.0654	53.69

#1	.1009	7.793	2.071	39.69	.0922	.0007	.0054	4.161	-0.009
#2	.0982	7.784	2.093	39.92	.0920	.0008	.0037	4.157	-0.020

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.1937	.0007	-0.0041	-0.0036	7.065	.0020	.0032		
Stddev	.0002	.0001	.0004	.0002	.009	.0003	.0006		
%RSD	.0936	16.38	9.813	5.183	.1223	15.84	17.63		

#1	.1936	.0007	-0.0044	-0.0038	7.059	.0018	.0028		
#2	.1938	.0008	-0.0038	-0.0035	7.071	.0022	.0036		

Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	67245.	9792.7	2289.5	3428.5					
Stddev	222.	35.9	9.7	17.2					
%RSD	.33083	.36663	.42421	.50221					

#1	67088.	9767.3	2296.4	3440.7					
#2	67403.	9818.1	2282.7	3416.4					

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Sample Name: jb70452-11f Acquired: 7/2/2014 1:26:38 Type: Unk
Method: Accutest1(v35) 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	.0547	.0001	-0.000	.0001	.0004	.0025	.0260	.0014	.0004
Stddev	.0003	.0000	.0001	.0001	.0001	.0000	.0000	.0000	.0000
%RSD	.4960	8.405	342.8	184.8	25.73	1.295	.0137	.8125	4.460

#1	.0546	.0001	.0000	-0.000	.0004	.0025	.0260	.0014	.0004
#2	.0549	.0001	-0.001	.0002	.0005	.0025	.0260	.0015	.0003

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0014	.0087	.0025	.0015	.0017	-0.010	-0.006	.0272	29.30
Stddev	.0002	.0000	.0001	.0003	.0008	.0004	.0001	.0007	.05
%RSD	12.74	.2174	3.811	17.41	46.86	36.18	15.43	2.511	.1603

#1	.0013	.0087	.0025	.0013	.0011	-0.007	-0.005	.0267	29.26
#2	.0015	.0087	.0026	.0017	.0022	-0.012	-0.007	.0277	29.33

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0988	7.480	2.042	37.74	.0909	.0007	.0039	3.949	-0.021
Stddev	.0017	.078	.020	.17	.0001	.0001	.0004	.000	.0005
%RSD	1.712	1.046	.9756	.4532	.0763	13.73	9.922	.0022	24.32

#1	.0986	7.425	2.028	37.62	.0910	.0008	.0042	3.949	-0.017
#2	.1010	7.535	2.057	37.86	.0909	.0006	.0036	3.949	-0.024

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.1802	.0011	-0.0050	-0.0035	6.876	.0023	.0022		
Stddev	.0001	.0001	.0003	.0001	.004	.0010	.0002		
%RSD	.0313	6.651	6.545	2.961	.0569	41.95	8.970		

#1	.1802	.0011	-0.0047	-0.0035	6.874	.0016	.0023		
#2	.1802	.0010	-0.0052	-0.0036	6.879	.0030	.0021		

Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	67448.	9879.1	2302.7	3452.3					
Stddev	60.	31.1	8.0	13.2					
%RSD	.08905	.31472	.34942	.38146					

#1	67490.	9901.1	2308.4	3461.6					
#2	67406.	9857.1	2297.0	3443.0					

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Sample Name: jb70452-10f Acquired: 7/2/2014 1:20:36 Type: Unk
Method: Accutest1(v35) 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	.0136	.0001	-0.001	-0.001	.0017	.0079	.0014	.0013	-0.001
Stddev	.0001	.0001	.0001	.0001	.0003	.0002	.0000	.0002	.0003
%RSD	.7439	85.10	78.36	170.8	16.74	2.171	.2589	12.94	469.2

#1	.0137	.0002	-0.002	-0.001	.0019	.0080	.0014	.0011	-0.003
#2	.0135	.0000	-0.000	.0000	.0015	.0078	.0014	.0014	.0002

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0021	.0042	.0132	.0009	.0013	.0005	.0016	.0810	18.15
Stddev	.0001	.0001	.0001	.0002	.0012	.0006	.0002	.0039	.01
%RSD	5.179	2.425	.9075	23.36	96.40	109.6	11.50	4.824	.0388

#1	.0021	.0041	.0133	.0010	.0004	.0009	.0015	.0783	18.15
#2	.0022	.0043	.0131	.0007	.0021	.0001	.0018	.0838	18.16

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0644	2.813	3.393	10.48	.1574	.0050	.0053	4.905	-0.014
Stddev	.0015	.003	.016	.00	.0004	.0003	.0001	.002	.0005
%RSD	2.277	.1193	.4683	.0162	.2242	5.142	1.000	.0344	35.90

#1	.0633	2.810	3.404	10.48	.1572	.0052	.0052	4.904	-0.010
#2	.0654	2.815	3.382	10.48	.1577	.0048	.0053	4.906	-0.018

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0919	.0009	-0.0011	-0.0043	3.333	.0022	.0033		
Stddev	.0000	.0003	.0004	.0000	.003	.0002	.0004		
%RSD	.0487	31.23	34.39	.9104	.0996	9.204	11.07		

#1	.0918	.0011	-0.0014	-0.0043	3.331	.0024	.0031		
#2	.0919	.0007	-0.0008	-0.0042	3.336	.0021	.0036		

Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	68539.	9922.2	2344.5	3582.7					
Stddev	38.	33.9	7.4	10.1					
%RSD	.05473	.34179	.31524	.28220					

#1	68565.	9946.2	2349.7	3589.9					
#2	68512.	9898.2	2339.3	3575.6					

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Sample Name: jb70452-12f Acquired: 7/2/2014 1:32:39 Type: Unk
Method: Accutest1(v35) 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	.0686	-0.000	-0.001	.0001	.0005	.0049	.4677	.0034	.0005
Stddev	.0004	.0001	.0000	.0001	.0003	.0001	.0020	.0000	.0000
%RSD	.6134	1110.	12.04	82.84	55.35	2.661	.4215	1.003	11.66

#1	.0663	.0000	-0.001	.0001	.0007	.0048	.4691	.0033	.0005
#2	.0669	-0.000	-0.001	.0000	.0003	.0050	.4663	.0034	.0006

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0014	.0119	.0105	.0013	.0017	.0005	-0.008	.0366	33.66
Stddev	.0001	.0001	.0010	.0008	.0010	.0009	.0009	.0043	.04
%RSD	10.79	.7966	9.661	59.19	56.53	174.4	117.2	11.87	.1242

#1	.0015	.0120	.0097	.0008	.0010	.0011	-0.0014	.0336	33.69
#2	.0013	.0119	.0112	.0019	.0024	-0.001	-0.001	.0397	33.63

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.1633	9.182	2.817	56.70	.2959	.0032	.0087	6.097	-0.017
Stddev	.0041	.045	.040	.26	.0005	.0002	.0008	.030	.0008
%RSD	2.520	.4891	1.403	.4599	.1728	7.280	12.05	.4931	49.64

#1	.1604	9.214	2.790	56.51	.2956	.0030	.0073	6.076	-0.011
#2	.1662	9.150	2.845	56.88	.2963	.0033	.0062	6.119	-0.022

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.1746	.0012	-0.0029	-0.0055	9.018	.0014	.0028		
Stddev	.0001	.0000	.0007	.0001	.041	.0006	.0000		
%RSD	.0619	.9564	24.56	1.768	.4594	40.62	1.592		

#1	.1746	.0012	-0.0024	-0.0055	8.989	.0010	.0028		
#2	.1745	.0012	-0.0034	-0.0056	9.047	.0018	.0027		

Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	67343.	9882.7	2298.3	3417.0					
Stddev	272.								

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Sample Name: jb70452-13f Acquired: 7/2/2014 1:38:39 Type:UNK
Method: Accutest1(v35) 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	.0158	.0000	-.0000	-.0001	.0021	.0090	.0024	.0019	.0004
Stddev	.0002	.0000	.0001	.0001	.0002	.0001	.0000	.0003	.0001
%RSD	1.381	282.5	260.7	108.0	10.20	1.627	.1483	16.79	31.81
#1	.0157	.0001	-.0001	-.0000	.0019	.0089	.0024	.0021	.0003
#2	.0160	-.0000	.0000	-.0002	.0022	.0091	.0024	.0016	.0005
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0027	.0047	.0353	.0019	.0012	.0016	.0011	.0734	18.34
Stddev	.0004	.0000	.0003	.0000	.0007	.0002	.0003	.0041	.09
%RSD	13.75	.0753	.7647	1.428	61.12	12.93	31.45	5.599	.5103
#1	.0024	.0047	.0351	.0019	.0007	.0017	.0008	.0763	18.27
#2	.0029	.0047	.0355	.0019	.0017	.0014	.0013	.0705	18.41
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0694	2.633	2.875	16.60	.1477	.0046	.0055	4.668	-.0014
Stddev	.0022	.023	.040	.09	.0001	.0001	.0005	.011	.0004
%RSD	3.202	.8805	1.378	.5215	.0899	2.405	8.637	2327	29.07
#1	.0709	2.617	2.847	16.54	.1476	.0045	.0058	4.661	-.0011
#2	.0678	2.650	2.903	16.66	.1478	.0047	.0052	4.676	-.0017
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.1033	.0013	-.0025	-.0040	3.987	.0034	.0024		
Stddev	.0005	.0001	.0001	.0000	.007	.0005	.0004		
%RSD	.5094	4.683	4.895	.2327	.1853	14.11	17.65		
#1	.1029	.0013	-.0024	-.0040	3.981	.0031	.0027		
#2	.1037	.0013	-.0026	-.0040	3.992	.0038	.0021		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	68412.	9946.3	2336.3	3562.0					
Stddev	437.	49.5	6.0	8.3					
%RSD	.63942	.49722	.25624	.23388					
#1	68722.	9981.3	2340.5	3567.9					
#2	68103.	9911.4	2332.0	3556.1					

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Sample Name: jb70452-14f Acquired: 7/2/2014 1:44:42 Type:UNK
Method: Accutest1(v35) 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	.0309	.0001	-.0000	.0000	.0010	.0067	.0241	.0018	.0004
Stddev	.0001	.0000	.0001	.0001	.0003	.0001	.0000	.0000	.0002
%RSD	.1877	57.08	180.7	73670.	28.85	1.685	.1908	2.415	35.84
#1	.0309	.0000	-.0001	.0000	.0008	.0066	.0241	.0018	.0003
#2	.0309	.0001	.0000	-.0000	.0012	.0068	.0241	.0017	.0005
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0016	.0063	.0195	.0011	.0013	.0023	.0017	.0599	22.27
Stddev	.0001	.0001	.0007	.0002	.0009	.0008	.0002	.0022	.05
%RSD	8.122	1.103	3.808	21.45	68.24	35.41	12.51	3.617	.2346
#1	.0015	.0063	.0190	.0010	.0007	.0028	.0019	.0584	22.23
#2	.0017	.0062	.0200	.0013	.0019	.0017	.0016	.0615	22.30
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.1114	3.576	1.719	18.12	.1647	.0043	.0046	5.264	-.0017
Stddev	.0009	.016	.014	.05	.0002	.0001	.0008	.007	.0005
%RSD	.7814	.4382	.7915	.2813	.1034	1.713	16.74	.1360	30.08
#1	.1120	3.565	1.710	18.15	.1646	.0042	.0041	5.269	-.0020
#2	.1108	3.587	1.729	18.08	.1648	.0043	.0051	5.259	-.0013
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.1033	.0024	-.0032	-.0046	5.009	.0018	.0009		
Stddev	.0000	.0003	.0001	.0001	.003	.0021	.0002		
%RSD	.0164	13.47	3.171	2.499	.0535	117.9	25.01		
#1	.1033	.0027	-.0031	-.0046	5.008	.0003	.0007		
#2	.1033	.0022	-.0032	-.0045	5.011	.0033	.0011		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	68035.	9871.9	2328.6	3545.0					
Stddev	72.	1.7	8.2	10.4					
%RSD	.10590	.01712	.35059	.29241					
#1	68086.	9870.8	2334.4	3552.4					
#2	67984.	9873.1	2322.9	3537.7					

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Sample Name: ccv Acquired: 7/2/2014 1:50:45 Type:QC
Method: Accutest1(v35) 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	1.930	1.931	1.970	2.001	1.985	1.890	1.985	2.015	2.381
Stddev	.005	.001	.002	.002	.008	.014	.001	.003	.0011
%RSD	.2613	.0675	.0891	.0726	.4078	.7252	.0262	.1382	.4732
#1	1.933	1.930	1.969	2.000	1.991	1.881	1.984	2.013	.2373
#2	1.926	1.931	1.971	2.002	1.979	1.900	1.985	2.017	.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	1.960	1.967	1.937	2.086	2.044	1.956	1.983	38.72	38.75
Stddev	.001	.004	.001	.006	.002	.004	.000	.11	.03
%RSD	.0415	.2033	.0589	.3097	.1141	.2217	.0044	.2854	.0755
#1	1.960	1.964	1.936	2.081	2.043	1.953	1.983	38.80	38.77
#2	1.959	1.970	1.938	2.090	2.046	1.959	1.983	38.64	38.73
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	38.42	38.20	38.80	39.10	1.973	1.994	1.964	5.044	2.032
Stddev	.05	.05	.16	.21	.004	.003	.020	.005	.004
%RSD	.1386	.1204	.4075	.5288	.1845	.1564	1.031	.0911	.1931
#1	38.46	38.24	38.91	39.24	1.970	1.992	1.949	5.041	2.029
#2	38.38	38.17	38.69	38.95	1.975	1.996	1.978	5.047	2.035
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: 7/2/2014 1:50:45 Type:QC
Method: Accutest1(v35) 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	1.941	1.951	1.886	1.966	1.923	2.017	1.943
Stddev	.004	.003	.007	.002	.004	.004	.013
%RSD	.1887	.1657	.3479	.0794	.1971	.2211	.6854
#1	1.944	1.949	1.881	1.965	1.920	2.014	1.952
#2	1.938	1.953	1.890	1.967	1.926	2.020	1.933
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	66444.	9590.0	2276.5	3236.2			
Stddev	166.	48.9	3.2	3.3			
%RSD	.24955	.50993	.14044	.10293			
#1	66561.	9564.4	2278.8	3238.6			
#2	66326.	9633.6	2274.3	3233.8			

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Sample Name: ccb Acquired: 7/2/2014 1:56:35 Type: QC									
Method: Accutest1(v35) 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	.0005	.0001	.0004	.0004	-.0000	.0003	.0003	.0002
Stddev	.0001	.0000	.0001	.0003	.0003	.0000	.0000	.0001	.0001
%RSD	14.19	1.167	68.46	89.84	77.79	17.62	3.673	21.97	35.81
#1	.0003	.0005	.0002	.0006	.0002	-.0000	.0003	.0002	.0003
#2	.0004	.0005	.0001	.0001	.0006	-.0000	.0003	.0003	.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	.0003	.0001	-.0006	.0008	-.0002	.0006	.0007	-.0003	.0070
Stddev	.0001	.0001	.0001	.0006	.0003	.0006	.0005	.0052	.0005
%RSD	22.03	56.78	12.71	78.13	131.7	93.17	65.80	1772.	7.491
#1	.0002	.0002	-.0006	.0013	-.0004	.0002	.0004	.0034	.0066
#2	.0003	.0001	-.0007	.0004	-.0000	.0011	.0011	-.0039	.0074
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	.0086	.0200	.0398	.0023	.0014	.0018	-.0004	.0062	.0003
Stddev	.0057	.0089	.0177	.0006	.0005	.0005	.0013	.0000	.0006
%RSD	66.62	44.30	44.38	24.06	36.46	26.70	335.0	.7306	186.1
#1	.0126	.0137	.0273	.0027	.0017	.0021	.0005	.0062	.0007
#2	.0045	.0263	.0523	.0019	.0010	.0014	-.0013	.0063	-.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: 7/2/2014 1:56:35 Type: QC									
Method: Accutest1(v35) 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	.0004	.0085	.0011	.0004	.0025	.0018		
Stddev	.0000	.0003	.0013	.0000	.0028	.0001	.0003		
%RSD	8.051	67.70	14.89	3.000	734.9	3.161	16.99		
#1	.0005	.0002	.0094	.0011	.0024	.0025	.0016		
#2	.0004	.0006	.0076	.0011	-.0016	.0024	.0020		
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	69384.	9681.1	2398.5	3661.4					
Stddev	43.	10.3	2.2	8.9					
%RSD	.06152	.10667	.09075	.24400					
#1	69414.	9673.8	2397.0	3655.1					
#2	69353.	9688.4	2400.1	3667.7					

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Sample Name: jb70452-15f Acquired: 7/2/2014 2:02:40 Type: Unk									
Method: Accutest1(v35) 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	.1007	.0002	.0001	.0000	.0008	.0083	.0517	.0030	.0006
Stddev	.0001	.0000	.0000	.0000	.0000	.0004	.0002	.0000	.0001
%RSD	.1236	15.03	40.76	57.77	5.174	4.855	.3639	.3526	13.62
#1	.1008	.0002	.0001	.0001	.0008	.0080	.0516	.0030	.0007
#2	.1006	.0002	.0002	.0000	.0009	.0085	.0519	.0030	.0005
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0021	.0196	.0196	-.0005	.0014	.0012	.0111	.0413	63.71
Stddev	.0004	.0003	.0002	.0009	.0015	.0012	.0004	.0076	.20
%RSD	19.31	1.387	.9907	167.0	109.4	101.3	3.627	18.48	.3066
#1	.0018	.0194	.0197	.0001	.0024	.0020	.0108	.0359	63.85
#2	.0024	.0198	.0195	-.0012	.0003	.0003	.0114	.0467	63.57
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0573	8.135	4.494	71.30	.2901	.0054	.0091	7.523	-.0026
Stddev	.0011	.021	.039	.23	.0003	.0003	.0003	.014	.0006
%RSD	1.969	.2631	.8767	.3175	.0939	6.068	3.832	.1792	24.84
#1	.0565	8.120	4.466	71.46	.2899	.0056	.0088	7.513	-.0030
#2	.0581	8.150	4.522	71.14	.2903	.0051	.0093	7.532	-.0021
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.3117	.0010	-.0032	-.0067	20.84	.0033	.0072		
Stddev	.0002	.0001	.0000	.0001	.01	.0015	.0001		
%RSD	.0633	9.835	1.212	1.582	.0667	44.59	.9798		
#1	.3116	.0011	-.0032	-.0066	20.83	.0023	.0071		
#2	.3119	.0009	-.0031	-.0068	20.84	.0044	.0072		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	66610.	9829.8	2263.0	3352.3					
Stddev	91.	35.6	8.1	11.7					
%RSD	.13679	.36198	.35962	.34891					
#1	66546.	9854.9	2268.7	3360.6					
#2	66675.	9804.6	2257.2	3344.0					

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Sample Name: jb70452-16f Acquired: 7/2/2014 2:08:43 Type: Unk									
Method: Accutest1(v35) 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	.0188	.0001	-.0001	-.0000	.0030	.0086	.0024	.0019	-.0002
Stddev	.0001	.0001	.0001	.0001	.0001	.0002	.0000	.0001	.0006
%RSD	.6866	84.34	67.70	903.5	3.008	2.695	1.712	6.136	235.3
#1	.0169	.0001	-.0001	-.0001	.0031	.0084	.0024	.0019	-.0006
#2	.0168	.0000	-.0000	.0001	.0029	.0088	.0025	.0018	.0002
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0029	.0049	.0373	.0007	.0011	.0006	.0014	.0747	19.50
Stddev	.0001	.0000	.0008	.0002	.0004	.0008	.0029	.0120	.00
%RSD	3.882	.6430	2.091	35.58	36.85	135.0	214.7	16.03	.0249
#1	.0029	.0049	.0378	.0009	.0008	.0000	.0034	.0832	19.50
#2	.0030	.0049	.0367	.0005	.0014	.0012	-.0007	.0663	19.51
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0667	2.818	2.905	18.93	.1555	.0048	.0057	4.987	-.0021
Stddev	.0006	.005	.023	.08	.0006	.0002	.0005	.025	.0008
%RSD	.8567	.1700	.7863	.4320	.4080	3.121	7.989	.4999	36.50
#1	.0663	2.814	2.888	18.87	.1551	.0047	.0054	4.970	-.0027
#2	.0671	2.821	2.921	18.99	.1560	.0049	.0061	5.005	-.0016
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.1103	.0010	-.0009	-.0041	4.186	.0022	.0027		
Stddev	.0002	.0001	.0006	.0000	.020	.0008	.0002		
%RSD	.1985	8.417	66.56	.8659	.4723	34.31	9.249		
#1	.1104	.0011	-.0013	-.0040	4.172	.0017	.0025		
#2	.1101	.0010	-.0005	-.0041	4.200	.0028	.0028		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	68488.	9961.2	2346.3	3568.1					
Stddev	83.	89.6	8.6	3.4					
%RSD	.12169	.89986	.36694	.09495					
#1	68430.	10025.	2352.4	3570.5					
#2	68547.	9897.8	2340.2	3565.7					

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Sample Name: jb70452-17f Acquired: 7/2/2014 2:14:46 Type: Unk
Method: Accutest1(v35) 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	.0271	.0000	.0000	-.0001	.0011	.0057	.0067	.0012	.0002
Stddev	.0002	.0000	.0001	.0001	.0001	.0001	.0000	.0000	.0009
%RSD	.6378	209.8	18060.	37.33	8.690	1.278	.7148	3.433	517.9
#1	.0269	-.0000	.0001	-.0001	.0012	.0057	.0067	.0012	.0008
#2	.0272	.0000	-.0001	-.0002	.0010	.0056	.0067	.0011	-.0005
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0016	.0049	.0054	.0020	.0022	.0013	-.0003	.0480	28.89
Stddev	.0002	.0001	.0001	.0007	.0002	.0011	.0005	.0002	.14
%RSD	13.36	2.058	1.373	34.53	10.63	79.14	184.7	.4641	.4803
#1	.0017	.0049	.0054	.0025	.0020	.0006	.0001	.0479	28.99
#2	.0014	.0050	.0053	.0015	.0024	.0021	-.0006	.0482	28.79
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0752	5.264	3.200	14.49	.1923	.0070	.0057	5.698	-.0017
Stddev	.0020	.047	.007	.07	.0005	.0001	.0007	.002	.0001
%RSD	2.605	.8958	.2305	.4736	.2509	1.160	12.60	.0302	6.417
#1	.0738	5.297	3.195	14.45	.1927	.0070	.0052	5.699	-.0016
#2	.0766	5.230	3.205	14.54	.1920	.0071	.0062	5.697	-.0018
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.1306	.0016	-.0009	-.0048	6.411	.0036	.0040		
Stddev	.0001	.0001	.0004	.0001	.004	.0006	.0005		
%RSD	.0959	3.641	37.22	2.568	.0667	16.73	11.69		
#1	.1307	.0016	-.0012	-.0047	6.408	.0031	.0043		
#2	.1305	.0017	-.0007	-.0049	6.414	.0040	.0037		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	68273.	9946.2	2330.6	3537.5					
Stddev	25.	19.1	2.9	3.3					
%RSD	.03647	.19235	.12553	.09457					
#1	68256.	9932.7	2332.7	3539.9					
#2	68291.	9959.7	2328.5	3535.2					

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Sample Name: jb68722-1ab 2 Acquired: 7/2/2014 2:20:49 Type: Unk
Method: Accutest1(v35) Mode: CONC Corr. Factor: 2.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.5051	.0006	.0007	.0092	1.163	.0035	.0306	.1548	.0069
Stddev	.0005	.0001	.0000	.0005	.004	.0005	.0001	.0004	.0014
%RSD	.0912	11.03	5.663	5.956	.3705	15.83	.3222	.2546	19.54
#1	.5047	.0006	.0007	.0095	1.160	.0038	.0305	.1545	.0060
#2	.5054	.0005	.0007	.0088	1.166	.0031	.0307	.1551	.0079
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.1029	.0067	.0204	.0319	.0027	.0133	.0088	.4150	908.9
Stddev	.0011	.0003	.0023	.0042	.0007	.0024	.0001	.0056	7.9
%RSD	1.059	5.130	11.11	13.09	25.97	18.18	1.314	1.341	.8676
#1	.1037	.0065	.0188	.0349	.0033	.0150	.0088	.4189	914.5
#2	.1022	.0070	.0220	.0290	.0022	.0116	.0089	.4111	903.3
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.4719	40.72	241.4	375.5	.3729	.1028	.0073	8.033	.0029
Stddev	.0177	.17	2	2.8	.0007	.0009	.0020	.034	.0006
%RSD	3.742	.4112	.0685	.7457	.1999	.8677	27.34	.4281	21.80
#1	.4844	40.84	241.3	377.5	.3734	.1034	.0087	8.057	.0025
#2	.4594	40.60	241.5	373.6	.3724	.1022	.0059	8.009	.0034
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	4.666	.1693	-.0458	.0164	100.5	.0117	.0200		
Stddev	.006	.0001	.0001	.0008	.4	.0015	.0001		
%RSD	.1400	.0446	.2593	4.672	.3897	12.37	.3382		
#1	4.671	.1694	-.0457	.0170	100.8	.0128	.0199		
#2	4.662	.1693	-.0458	.0159	100.2	.0107	.0200		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	60884.	9431.2	2030.7	2856.1					
Stddev	83.	26.2	5.1	4.1					
%RSD	.13591	.27755	.25161	.14503					
#1	60942.	9412.7	2027.1	2853.1					
#2	60825.	9449.8	2034.3	2859.0					

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Sample Name: jb68722-1ab Acquired: 7/2/2014 2:26:58 Type: Unk
Method: Accutest1(v35) Mode: CONC Corr. Factor: 3.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.5052	.0002	.0002	.0094	1.178	.0024	.0309	.1556	.0075
Stddev	.0006	.0005	.0001	.0000	.004	.0003	.0001	.0002	.0013
%RSD	.1220	251.3	34.41	.2919	.3733	14.17	.2302	.1133	17.38
#1	.5056	-.0002	.0001	.0094	1.182	.0022	.0308	.1554	.0084
#2	.5047	.0005	.0002	.0094	1.175	.0026	.0309	.1557	.0066
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.1039	.0091	.0161	.0288	.0038	.0107	.0120	.4265	941.8
Stddev	.0007	.0000	.0009	.0017	.0015	.0025	.0005	.0002	1.4
%RSD	.6783	.1334	5.767	5.934	39.58	22.89	4.294	.0558	.1532
#1	.1044	.0091	.0155	.0300	.0049	.0090	.0116	.4263	942.8
#2	.1034	.0091	.0168	.0276	.0028	.0125	.0124	.4266	940.7
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	4.758	41.22	240.5	376.5	.3717	.1030	.0068	7.991	-.0003
Stddev	.0029	.10	1.3	2.8	.0007	.0006	.0009	.014	.0034
%RSD	.6007	.2321	.5314	.7324	.1848	.5707	13.02	.1723	1063.
#1	.4737	41.16	241.4	378.4	.3712	.1026	.0061	8.000	.0021
#2	.4778	41.29	239.6	374.5	.3722	.1034	.0074	7.981	-.0027
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	4.675	.1698	-.0485	.0120	99.47	.0107	.0199		
Stddev	.008	.0004	.0015	.0002	.01	.0021	.0011		
%RSD	.1756	.2401	3.023	1.567	.0075	19.37	5.553		
#1	4.681	.1695	-.0495	.0121	99.47	.0122	.0207		
#2	4.669	.1701	-.0474	.0119	99.48	.0093	.0191		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	62600.	9508.6	2100.1	2987.3					
Stddev	52.	4.7	3.6	3.2					
%RSD	.08291	.04989	.17024	.10646					
#1	62636.	9505.2	2097.6	2985.1					
#2	62563.	9511.9	2102.6	2989.6					

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[Zoom In](#)
[Zoom Out](#)

Sample Name: jb68722-3ab Acquired: 7/2/2014 2:32:58 Type: Unk
Method: Accutest1(v35) Mode: CONC Corr. Factor: 3.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.4353	.0034	.0025	.1837	12.36	.0666	26.11	.2826	.0044
Stddev	.0023	.0000	.0001	.0000	.02	.0001	.08	.0014	.0002
%RSD	.5344	.4650	4.666	.0143	.1286	.1074	.3062	.5080	3.415
#1	.4369	.0034	.0024	.1837	12.34	.0665	26.05	.2816	.0043
#2	.4336	.0034	.0026	.1837	12.37	.0666	26.17	.2836	.0046
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.1403	.2816	.0378	.0904	.0329	.0237	-.0039	5.917	459.6
Stddev	.0010	.0005	.0040	.0024	.0039	.0083	.0002	.035	2.5
%RSD	.7414	.1798	10.71	2.617	11.98	35.12	5.576	.5853	.5390
#1	.1395	.2813	.0349	.0888	.0357	.0178	-.0041	5.941	461.4
#2	.1410	.2820	.0406	.0921	.0301	.0296	-.0038	5.892	457.9
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	112.7	116.4	403.9	213.2	.2459	.0083	.0256	34.79	-.0037
Stddev	.5	.4	2.1	1.1	.0011	.0004	.0010	.02	.0034
%RSD	.4445	.3609	.5152	.5211	.4650	4.205	3.743	.0496	90.47
#1	113.1	116.7	405.3	213.9	.2451	.0081	.0249	34.78	-.0013
#2	112.4	116.1	402.4	212.4	.2467	.0086	.0262	34.80	-.0061
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	1.250	.4677	.0032	.0084	86.15	.0249	.0395		
Stddev	.004	.0001	.0008	.0007	.18	.0014	.0010		
%RSD	.3183	.0207	24.97	7.754	.2038	5.773	2.562		
#1	1.253	.4677	.0037	.0089	86.03	.0239	.0387		
#2	1.247	.4678	.0026	.0080	86.28	.0260	.0402		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	65312.	9791.6	2188.8	3104.3					
Stddev	46.	29.9	2.9	5.0					
%RSD	.06986	.30515	.13157	.16047					
#1	65280.	9770.4	2186.8	3100.8					
#2	65345.	9812.7	2190.9	3107.8					

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Sample Name: jb68722-4ab Acquired: 7/2/2014 2:39:01 Type: Unk
Method: Accutest1(v35) Mode: CONC Corr. Factor: 3.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.6533	.0007	.0010	.0156	1.696	.0085	5.231	.0869	.0103
Stddev	.0019	.0001	.0005	.0014	.008	.0016	.022	.0002	.0001
%RSD	.2918	20.12	51.92	9.018	.4515	18.75	.4123	.2695	.6501
#1	.6547	.0006	.0006	.0166	1.702	.0073	5.246	.0871	.0103
#2	.6520	.0008	.0014	.0146	1.691	.0096	5.216	.0868	.0104
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0712	.0170	.0142	.0836	.0132	.0177	.0044	1.585	1112.
Stddev	.0007	.0001	.0003	.0026	.0004	.0019	.0035	.011	7.
%RSD	1.005	.5709	1.968	3.074	3.110	11.00	79.35	.7223	.6282
#1	.0707	.0169	.0144	.0818	.0134	.0163	.0019	1.593	1107.
#2	.0717	.0171	.0140	.0854	.0129	.0191	.0068	1.577	1117.
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	50.90	105.2	470.0	332.8	.5213	.0076	-.0096	19.77	.0008
Stddev	.07	.1	1.3	1.0	.0004	.0006	.0007	.02	.0007
%RSD	.1306	.0514	.2797	.2989	.0722	8.331	7.202	.1182	91.03
#1	50.95	105.2	470.9	333.5	.5211	.0072	-.0091	19.79	.0013
#2	50.85	105.3	469.1	332.1	.5216	.0081	-.0100	19.75	.0003
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	4.857	.3373	-.1114	-.0013	13.05	.0145	.0421		
Stddev	.013	.0001	.0006	.0002	.00	.0007	.0003		
%RSD	.2724	.0335	.5093	13.28	.0060	5.173	.6857		
#1	4.866	.3374	-.1119	-.0012	13.05	.0150	.0419		
#2	4.847	.3372	-.1111	-.0014	13.05	.0140	.0423		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	62422.	9511.9	2082.5	2921.6					
Stddev	30.	7.2	4.8	2.9					
%RSD	.04881	.07564	.23032	.09922					
#1	62401.	9506.8	2079.1	2919.5					
#2	62444.	9517.0	2085.9	2923.6					

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Sample Name: jb68722-5ab Acquired: 7/2/2014 2:45:02 Type: Unk
Method: Accutest1(v35) Mode: CONC Corr. Factor: 3.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.6811	.0008	.0010	.0338	.4746	.0194	6.553	.2141	.0100
Stddev	.0025	.0001	.0007	.0001	.0003	.0002	.013	.0006	.0015
%RSD	.3721	9.205	70.30	.2060	.0625	1.113	.1957	.2698	14.95
#1	.6793	.0008	.0015	.0338	.4744	.0192	6.562	.2137	.0111
#2	.6829	.0007	.0005	.0339	.4748	.0195	6.544	.2145	.0090
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0806	.0567	.0153	.1392	.0332	.0201	.0088	2.864	1125.
Stddev	.0009	.0004	.0019	.0005	.0009	.0015	.0005	.012	2.
%RSD	1.148	.6412	12.47	.3484	2.806	7.233	5.713	.4186	.1781
#1	.0800	.0565	.0166	.1389	.0339	.0191	.0085	2.856	1126.
#2	.0813	.0570	.0139	.1396	.0325	.0212	.0092	2.873	1123.
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	71.14	140.0	678.9	220.6	.4349	.0114	-.0020	21.13	.0039
Stddev	.09	.2	1.8	.4	.0022	.0000	.0020	.05	.0006
%RSD	.1220	.1314	.2628	.1675	.5064	.0657	102.7	.2591	15.92
#1	71.20	140.2	677.6	220.3	.4365	.0114	-.0034	21.17	.0044
#2	71.08	139.9	680.1	220.9	.4334	.0114	-.0005	21.09	.0035
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	4.565	.6223	-.1134	-.0051	25.20	.0184	.0623		
Stddev	.002	.0009	.0015	.0002	.03	.0023	.0009		
%RSD	.0435	.1465	1.365	4.034	.1107	12.42	1.371		
#1	4.564	.6229	-.1145	-.0053	25.22	.0200	.0617		
#2	4.567	.6216	-.1123	-.0050	25.18	.0168	.0629		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	62338.	9435.1	2083.2	2909.4					
Stddev	87.	19.1	6.0	.3					
%RSD	.13970	.20204	.28827	.01080					
#1	62277.	9421.6	2079.0	2909.2					
#2	62400.	9448.5	2087.5	2909.7					

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Sample Name: jb68722-6ab Acquired: 7/2/2014 2:51:04 Type: Unk
Method: Accutest1(v35) Mode: CONC Corr. Factor: 2.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.3516	.0004	.0005	.0076	.1352	.0030	.5716	.0490	.0080
Stddev	.0012	.0001	.0003	.0004	.0009	.0000	.0008	.0004	.0011
%RSD	.3337	19.47	50.22	5.209	.6461	.6977	.1445	.7797	18.61
#1	.3524	.0005	.0003	.0073	.1345	.0030	.5722	.0488	.0053
#2	.3508	.0004	.0007	.0079	.1358	.0030	.5710	.0493	.0068
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0977	.0069	.0136	.0205	.0029	.0097	.0032	.2998	721.7
Stddev	.0004	.0001	.0011	.0008	.0010	.0011	.0016	.0164	.5
%RSD	.3714	1.528	8.123	3.714	35.52	10.83	49.86	5.463	.0696
#1	.0974	.0070	.0144	.0199	.0021	.0104	.0021	.3113	722.0
#2	.0979	.0068	.0128	.0210	.0036	.0090	.0043	.2882	721.3
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.6189	30.62	185.8	506.6	.3283	.0311	-.0022	7.973	.0015
Stddev	.0046	.01	.7	17.5	.0000	.0001	.0025	.005	.0013
%RSD	.7368	.0357	.3730	3.445	.0073	.1922	115.9	.0642	89.48
#1	.6221	30.62	186.3	494.3	.3283	.0311	-.0040	7.976	.0024
#2	.6157	30.61	185.3	519.0	.3283	.0312	-.0004	7.969	.0005
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	3.986	.2360	-.0700	.0070	25.46	.0065	.0125		
Stddev	.008	.0000	.0008	.0001	.03	.0021	.0018		
%RSD	.2063	.0007	1.178	.9150	.1288	31.74	14.32		
#1	3.992	.2360	-.0705	.0070	25.48	.0079	.0112		
#2	3.980	.2360	-.0694	.0069	25.43	.0050	.0137		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	61424.	9498.4	2054.4	2866.3					
Stddev	71.	25.1	5.7	11.1					
%RSD	.11629	.26467	.27517	.38551					
#1	61474.	9516.2	2058.4	2874.1					
#2	61373.	9480.7	2050.4	2858.5					

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Sample Name: jb68722-8ab Acquired: 7/2/2014 2:57:10 Type: Unk
Method: Accutest1(v35) Mode: CONC Corr. Factor: 3.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.6896	.0011	.0009	.0252	.8436	.0383	6.059	.1598	.0101
Stddev	.0014	.0001	.0002	.0006	.0018	.0021	.001	.0015	.0011
%RSD	.1970	6.261	26.82	2.232	.2165	5.576	.0193	.9310	10.87
#1	.6886	.0010	.0007	.0256	.8423	.0399	6.058	.1587	.0109
#2	.6905	.0011	.0011	.0248	.8449	.0368	6.060	.1608	.0094
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0937	.0436	.0149	.0997	.0292	.0210	.0052	3.933	1206.
Stddev	.0008	.0000	.0017	.0013	.0016	.0047	.0014	.007	15.
%RSD	.8121	.0802	11.53	1.337	5.431	22.34	25.93	.1693	1.238
#1	.0932	.0437	.0137	.1006	.0281	.0176	.0043	3.938	1195.
#2	.0943	.0436	.0162	.0988	.0303	.0243	.0062	3.928	1216.
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	64.63	114.0	536.4	201.6	.4941	.0141	-.0082	21.07	.0006
Stddev	.01	.4	.2	.1	.0003	.0007	.0001	.03	.0006
%RSD	.0099	.3459	.0335	.0583	.0642	5.264	.7072	.1483	16.51
#1	64.64	113.7	536.6	201.7	.4944	.0135	-.0082	21.10	.0043
#2	64.63	114.3	536.3	201.5	.4939	.0146	-.0082	21.05	.0034
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	5.100	.6701	-.1261	-.0101	13.79	.0180	.0476		
Stddev	.004	.0005	.0012	.0005	.02	.0030	.0002		
%RSD	.0699	.0789	.9787	5.014	.1311	16.57	.5197		
#1	5.102	.6697	-.1253	-.0097	13.80	.0201	.0474		
#2	5.097	.6704	-.1270	-.0104	13.78	.0159	.0477		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	62841.	9505.2	2085.7	2922.4					
Stddev	2.	22.6	6.2	7.4					
%RSD	.00282	.23772	.29821	.25307					
#1	62843.	9521.2	2081.3	2917.2					
#2	62840.	9489.2	2090.1	2927.7					

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Sample Name: ccv Acquired: 7/2/2014 3:03:17 Type: QC									
Method: Accutest1(v35) 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	1.939	1.934	1.957	1.998	1.992	1.891	1.997	2.013	2.383
Stddev	.003	.005	.002	.005	.007	.010	.006	.004	.0007
%RSD	.1597	.2582	.1102	.2545	.3777	.5174	.3163	.2185	.2762
#1	1.937	1.937	1.959	2.002	1.998	1.884	2.001	2.016	2.387
#2	1.942	1.930	1.956	1.994	1.987	1.898	1.993	2.010	2.378
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	1.970	1.973	1.931	2.070	2.039	1.940	1.960	39.03	38.91
Stddev	.004	.009	.004	.005	.003	.000	.001	.03	.15
%RSD	.1877	.4344	.2032	.2210	.1296	.0137	.0622	.0710	.3858
#1	1.973	1.979	1.934	2.074	2.041	1.939	1.959	39.05	39.01
#2	1.968	1.967	1.928	2.067	2.038	1.940	1.961	39.01	38.80
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	38.49	38.21	39.11	39.30	1.959	1.989	1.966	5.014	2.029
Stddev	.07	.07	.08	.01	.000	.004	.014	.005	.006
%RSD	.1814	.1735	.2159	.0229	.0106	.2072	.7052	.1060	.2766
#1	38.54	38.26	39.05	39.30	1.959	1.991	1.956	5.018	2.033
#2	38.44	38.16	39.17	39.31	1.959	1.986	1.976	5.010	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: ccv Acquired: 7/2/2014 3:03:17 Type: QC									
Method: Accutest1(v35) 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	1.951	1.964	1.880	1.968	1.909	1.999	1.951		
Stddev	.001	.003	.004	.001	.002	.002	.005		
%RSD	.0558	.1320	.2363	.0373	.1235	.1067	.2730		
#1	1.950	1.966	1.877	1.967	1.910	1.997	1.948		
#2	1.952	1.962	1.883	1.968	1.907	2.000	1.955		
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	66269.	9509.9	2286.3	3251.4					
Stddev	50.	34.9	6.7	8.9					
%RSD	.07501	.36710	.29134	.27467					
#1	66234.	9485.2	2281.6	3245.1					
#2	66305.	9534.5	2291.0	3257.7					

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Sample Name: ccb Acquired: 7/2/2014 3:09:05 Type: QC									
Method: Accutest1(v35) 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	.0003	.0005	.0001	-.0003	.0003	.0005	.0001
Stddev	.0000	.0000	.0001	.0001	.0002	.0002	.0000	.0000	.0001
%RSD	8.134	19.95	32.46	27.36	156.2	46.54	12.88	3.071	163.4
#1	.0005	.0002	.0003	.0007	-.0000	-.0002	.0003	.0005	.0002
#2	.0005	.0003	.0002	.0004	.0003	-.0004	.0003	.0005	-.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	.0000	.0001	.0008	.0002	.0006	.0005	.0012	.0086	.0068
Stddev	.0002	.0001	.0019	.0007	.0002	.0007	.0003	.0119	.0019
%RSD	561.2	43.82	230.7	320.3	29.75	132.8	26.38	139.2	27.45
#1	-.0001	.0002	.0021	.0007	.0005	.0000	.0010	.0170	.0081
#2	.0001	.0001	-.0005	-.0003	.0008	.0010	.0014	.0001	.0054
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	.0055	.0192	.0695	.0043	.0018	.0018	.0005	.0064	.0005
Stddev	.0022	.0067	.0106	.0001	.0000	.0002	.0006	.0009	.0004
%RSD	39.31	35.04	15.31	2.318	1.250	13.50	104.4	13.54	84.76
#1	.0040	.0240	.0620	.0043	.0018	.0020	.0010	.0070	.0002
#2	.0071	.0145	.0770	.0044	.0018	.0017	.0001	.0058	.0007
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: 7/2/2014 3:09:05 Type: QC									
Method: Accutest1(v35) 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	.0008	.0074	.0008	.0018	.0023	.0004		
Stddev	.0001	.0003	.0001	.0002	.0003	.0006	.0004		
%RSD	32.74	37.93	2.020	27.23	18.86	24.77	106.1		
#1	.0001	.0010	.0075	.0010	.0016	.0027	.0001		
#2	.0002	.0006	.0073	.0007	.0021	.0019	.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	69642.	9694.5	2427.8	3703.5					
Stddev	118.	20.8	18.8	23.5					
%RSD	.16872	.21446	.77244	.63497					
#1	69559.	9709.2	2414.6	3686.9					
#2	69725.	9679.7	2441.1	3720.1					

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Sample Name: cri Acquired: 7/2/2014 3:15:11 Type: QC
Method: Accutest1(v35) 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	.1968	.0021	.0032	.0509	.0110	.0091	.0159	.0102	.0052
Stddev	.0004	.0001	.0000	.0001	.0003	.0002	.0000	.0003	.0002
%RSD	.2176	4.866	1.535	.2798	2.914	2.528	.1130	2.593	3.442
#1	.1965	.0020	.0031	.0510	.0107	.0090	.0158	.0104	.0051
#2	.1971	.0022	.0032	.0508	.0112	.0093	.0159	.0100	.0053

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	.0528	.0219	.0079	.0121	.0030	.0083	.0065	.1937	4.945
Stddev	.0001	.0000	.0002	.0004	.0006	.0012	.0001	.0050	.023
%RSD	.1366	.1813	3.042	3.326	19.85	14.00	1.844	2.562	.4626
#1	.0528	.0219	.0077	.0123	.0034	.0075	.0066	.1972	4.929
#2	.0527	.0219	.0081	.0118	.0026	.0091	.0065	.1902	4.962

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	.1044	4.859	4.912	4.887	.1003	.0209	.0532	.2078	.0106
Stddev	.0007	.001	.021	.015	.0009	.0000	.0015	.0009	.0001
%RSD	.6592	.0100	.4254	.3062	.8512	.0716	2.761	.4299	1.401
#1	.1049	4.859	4.897	4.897	.1009	.0209	.0542	.2072	.0107
#2	.1040	4.859	4.926	4.876	.0997	.0209	.0521	.2085	.0105

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: 7/2/2014 3:21:14 Type: QC
Method: Accutest1(v35) 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	.0041	.0010	.0009	.0030	.0025	F .0012	.0031	.0044
Stddev	.0001	.0001	.0001	.0001	.0001	.0000	.0000	.0003
%RSD	3.380	10.12	10.59	2.834	4.516	3.951	1.612	6.364
#1	.0040	.0011	.0010	.0029	.0024	.0012	.0031	.0046
#2	.0042	.0009	.0008	.0031	.0025	.0013	.0031	.0042

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Fail Chk Pass Chk Pass
Value
Range -30.00%

Elem	Ag3280	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009	.0018	.0115	.0036	.0015	.0027	.0061	.0036
Stddev	.0003	.0001	.0001	.0009	.0003	.0003	.0006	.0004
%RSD	30.52	2.952	.7740	25.26	19.23	11.72	10.48	10.42
#1	.0011	.0018	.0114	.0043	.0017	.0025	.0066	.0034
#2	.0007	.0019	.0115	.0030	.0013	.0029	.0057	.0039

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	.0815	1.003	.0010	.1099	1.980	.9738	.0104	.0004
Stddev	.0034	.005	.0009	.0093	.036	.0101	.0000	.0002
%RSD	4.129	.5332	88.96	8.498	1.827	1.041	.0221	54.52
#1	.0839	.9994	.0016	.1165	2.006	.9810	.0104	.0006
#2	.0792	1.007	.0004	.1033	1.954	.9667	.0104	.0003

Check ? Chk Pass Chk Pass None Chk Pass Chk Pass Chk Pass Chk Pass None
Value
Range

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Sample Name: cri Acquired: 7/2/2014 3:15:11 Type: QC
Method: Accutest1(v35) 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	.0102	.0104	.0580	.0120	.0485	.0214	.0193
Stddev	.0001	.0000	.0003	.0002	.0001	.0005	.0002
%RSD	.5119	.0697	.5128	1.464	.2830	2.528	.9511
#1	.0101	.0104	.0582	.0121	.0484	.0218	.0192
#2	.0102	.0105	.0578	.0118	.0486	.0211	.0194

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	69006.	9638.5	2388.7	3610.3
Stddev	118.	27.3	3.2	1.3
%RSD	.17161	.28283	.13519	.03638
#1	69090.	9657.8	2391.0	3611.2
#2	68922.	9619.2	2386.4	3609.4

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Sample Name: crid Acquired: 7/2/2014 3:21:14 Type: QC
Method: Accutest1(v35) 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	.0010	.0002	.0000	.0000	F .0022	F .0005	F .0016
Stddev	.0006	.0009	.0007	.0001	.0001	.0000	.0002	.0005
%RSD	183.2	83.96	323.2	283.4	535.9	1.920	51.12	33.28
#1	.0008	.0004	.0007	.0001	.0001	.0022	.0003	.0019
#2	.0001	.0017	.0003	.0000	.0001	.0022	.0006	.0012

Check ? None None None None None Chk Fail Chk Fail Chk Fail
Value
Range .0040 .0040 .0040
-30.00% -30.00% -30.00%

Elem	Bi2230	Li6707
Units	ppm	ppm
Avg	F .0003	F .0013
Stddev	.0001	.0007
%RSD	38.03	57.20
#1	.0002	.0018
#2	.0004	.0007

Check ? Chk Fail Chk Fail
Value
Range .0040 .0040
-30.00% -30.00%

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	69536.	9669.6	2404.5	3658.7
Stddev	26.	80.9	2.4	4.8
%RSD	.03811	.83664	.09885	.13055
#1	69517.	9612.4	2406.2	3662.0
#2	69554.	9726.8	2402.8	3655.3

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Sample Name: cria Acquired: 7/2/2014 3:27:20 Type: QC
Method: Accutest1(v35) 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	.0001	.0002	.0002	.0007	.0000	.0003	.0001
Stddev	.0001	.0000	.0000	.0001	.0001	.0004	.0001	.0002	.0002
%RSD	35.46	34.14	30.03	40.36	60.55	63.58	3813.	49.57	217.6

#1	.0002	.0001	.0001	.0002	.0001	.0010	.0001	.0005	.0001
#2	.0001	.0000	.0001	.0001	.0003	.0004	.0001	.0002	.0003

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	.0009	.0197	.0001	.0205	.0202	.0200	.4707	.0020
Stddev	.0001	.0001	.0003	.0004	.0007	.0007	.0005	.0054	.0001
%RSD	216.9	10.48	1.678	359.0	3.278	3.384	2.511	1.139	7.291

#1	.0001	.0008	.0199	.0004	.0201	.0207	.0196	.4669	.0019
#2	.0000	.0010	.0194	.0002	.0210	.0197	.0203	.4745	.0021

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	.4985	.0162	.0314	.0075	.0002	.0001	.0013	.0009	.0001
Stddev	.0013	.0183	.0090	.0062	.0001	.0000	.0013	.0001	.0007
%RSD	.2532	112.8	28.68	82.68	67.19	2.329	102.2	13.45	570.1

#1	.4994	.0291	.0250	.0031	.0001	.0001	.0003	.0008	.0006
#2	.4976	.0033	.0378	.0119	.0002	.0001	.0022	.0009	.0004

Check ? Value Range
Chk Pass None None None None None None None None

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Sample Name: ccv Acquired: 7/2/2014 3:33:27 Type: QC
Method: Accutest1(v35) 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	1.935	1.934	1.954	2.005	2.004	1.872	2.004	2.018	2.374
Stddev	.002	.004	.002	.003	.002	.012	.002	.002	.0016
%RSD	.1113	.2009	.1041	.1585	.1153	.6399	.1085	.0949	.6711

#1	1.933	1.932	1.955	2.003	2.006	1.881	2.003	2.017	2.385
#2	1.936	1.937	1.952	2.007	2.002	1.864	2.006	2.020	2.363

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	1.974	1.979	1.931	2.074	2.044	1.938	1.956	38.93	38.93
Stddev	.003	.003	.003	.003	.003	.000	.002	.07	.08
%RSD	.1267	.1259	.1617	.1387	.1205	.0219	.0998	.1921	.2068

#1	1.976	1.978	1.928	2.072	2.042	1.938	1.955	38.88	38.87
#2	1.972	1.981	1.933	2.076	2.046	1.938	1.958	38.98	38.99

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	38.45	38.46	38.97	39.03	1.957	1.989	1.946	4.994	2.028
Stddev	.05	.00	.02	.02	.001	.004	.020	.005	.002
%RSD	.1318	.0113	.0607	.0422	.0323	.1882	1.020	.1015	.0902

#1	38.41	38.46	38.95	39.02	1.957	1.987	1.960	4.997	2.027
#2	38.48	38.46	38.99	39.04	1.956	1.992	1.932	4.990	2.029

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: cria Acquired: 7/2/2014 3:27:20 Type: QC
Method: Accutest1(v35) 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	.0007	.0002	.0026	.0004	.0012
Stddev	.0000	.0004	.0003	.0000	.0023	.0002	.0008
%RSD	53.19	425.9	40.14	14.12	86.30	44.48	65.27

#1	.0000	.0004	.0009	.0002	.0010	.0003	.0017
#2	.0001	.0002	.0005	.0003	.0042	.0006	.0006

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	69703.	9692.6	2426.1	3693.7
Stddev	58.	56.0	2.4	3.9
%RSD	.08312	.57817	.09743	.10628

#1	69662.	9732.3	2427.8	3696.5
#2	69744.	9653.0	2424.5	3690.9

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Sample Name: ccv Acquired: 7/2/2014 3:33:27 Type: QC
Method: Accutest1(v35) 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	1.946	1.968	1.887	1.975	1.910	1.986	1.936
Stddev	.000	.001	.005	.003	.001	.004	.000
%RSD	.0147	.0336	.2852	.1438	.0605	.2223	.0156

#1	1.946	1.968	1.883	1.977	1.910	1.989	1.936
#2	1.946	1.969	1.891	1.973	1.911	1.983	1.936

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	66075.	9490.0	2289.2	3244.1
Stddev	25.	56.6	1.7	3.6
%RSD	.03742	.59662	.07455	.11119

#1	66092.	9530.0	2290.4	3246.7
#2	66057.	9449.9	2288.0	3241.6

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Sample Name: ccb Acquired: 7/2/2014 3:39:17 Type: QC
 Method: Accutest1(v35) 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	.0002	.0002	.0004	.0006	-.0005	.0003	.0004	-.0005
Stddev	.0002	.0000	.0000	.0001	.0005	.0004	.0000	.0002	.0000
%RSD	49.53	16.90	15.57	38.16	83.58	89.38	2.017	69.33	4.022
#1	.0002	.0003	.0002	.0003	.0003	-.0002	.0003	.0005	-.0005
#2	.0005	.0002	.0002	.0005	.0010	-.0008	.0003	.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	-.0001	.0001	.0002	-.0003	.0006	-.0012	.0004	-.0035	.0074
Stddev	.0001	.0000	.0002	.0005	.0003	.0008	.0007	.0069	.0033
%RSD	205.6	37.26	86.17	153.9	49.13	66.65	188.3	194.8	44.47
#1	.0000	.0001	.0003	.0000	.0004	-.0006	-.0001	-.0084	.0097
#2	-.0001	.0001	.0001	-.0007	.0009	-.0018	.0009	.0013	.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	.0040	.0131	.0447	.0000	.0013	.0018	.0004	.0044	.0004
Stddev	.0003	.0064	.0018	.0008	.0001	.0004	.0004	.0003	.0008
%RSD	6.394	48.43	4.139	3689.	4.992	22.93	103.4	6.004	171.8
#1	.0041	.0086	.0434	.0006	.0014	.0021	.0001	.0042	-.0001
#2	.0038	.0176	.0460	-.0005	.0013	.0015	.0006	.0046	.0010

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: 7/2/2014 3:39:17 Type: QC
 Method: Accutest1(v35) 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	.0090	.0010	-.0001	.0030	-.0009
Stddev	.0001	.0002	.0010	.0000	.0012	.0005	.0003
%RSD	22.54	39.23	11.25	2.476	977.1	15.91	37.45
#1	.0003	.0004	.0098	.0010	-.0010	.0033	-.0012
#2	.0004	.0007	.0083	.0010	.0007	.0026	-.0007

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	69859.	9690.1	2426.8	3692.3
Stddev	89.	38.8	1.9	2.2
%RSD	.12806	.40063	.07624	.06030
#1	69796.	9662.7	2428.1	3693.9
#2	69923.	9717.6	2425.5	3690.7

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Sample Name: jb68722-13ab Acquired: 7/2/2014 3:45:23 Type: Unk
 Method: Accutest1(v35) Mode: CONC Corr. Factor: 2.000000
 User: admin Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.0253	.0008	-.0003	.0003	29.35	.0124	.0055	.1145	.0002
Stddev	.0001	.0002	.0000	.0002	.04	.0001	.0002	.0003	.0002
%RSD	.3425	26.77	9.742	82.44	.1500	.7802	3.153	.2646	142.7
#1	.0252	.0009	-.0004	.0001	29.38	.0123	.0057	.1143	.0003
#2	.0254	.0006	-.0003	.0005	29.32	.0124	.0054	.1147	-.0000

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.1945	.0029	.0150	.0208	.0071	.0025	-.0035	3.343	44.37
Stddev	.0017	.0001	.0039	.0020	.0010	.0091	.0034	.007	.08
%RSD	.8877	4.491	25.96	9.578	14.21	366.4	98.02	.2036	.1714
#1	.1957	.0030	.0177	.0222	.0079	.0089	-.0011	3.348	44.32
#2	.1933	.0028	.0122	.0194	.0064	-.0040	-.0059	3.339	44.42

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.9101	.3471	99.65	499.2	.0371	.1681	.0450	19.86	-.0046
Stddev	.0005	.0528	.27	.9	.0001	.0002	.0016	.01	.0014
%RSD	.0602	15.20	2672	.1788	.4002	.1191	3.639	.0584	30.46
#1	.9097	.3844	99.46	498.6	.0370	.1679	.0462	19.86	-.0056
#2	.9104	.3098	99.84	499.9	.0372	.1682	.0438	19.85	-.0036

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Avg	.4665	.0614	.1069	-.0225	153.3	.0371	.0087
Stddev	.0022	.0011	.0004	.0001	.0	.0021	.0021
%RSD	.4679	1.842	.3986	.5934	.0326	5.642	23.81
#1	.4649	.0606	.1066	-.0224	153.4	.0356	.0073
#2	.4680	.0622	.1072	-.0226	153.3	.0386	.0102

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	64578.	9587.9	2162.1	3140.6
Stddev	157.	31.3	2.0	9.5
%RSD	.24363	.32658	.09259	.30117
#1	64689.	9610.0	2163.5	3147.3
#2	64467.	9565.8	2160.7	3133.9

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Sample Name: mp80392-b1 2 Acquired: 7/2/2014 3:51:28 Type: Unk
 Method: Accutest1(v35) 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	4.116	.1056	.1017	.9952	.4085	.4728	1.011	1.006	.0975
Stddev	.220	.0059	.0005	.0008	.0006	.0013	.000	.001	.0017
%RSD	5.338	5.583	.4601	.0831	.1566	.2660	.0013	.1332	1.741
#1	4.272	.1098	.1020	.9958	.4081	.4719	1.011	1.007	.0987
#2	3.961	.1015	.1014	.9947	.4090	.4737	1.011	1.005	.0963

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.9790	.9998	3.985	4.368	1.048	4.075	.9834	55.52	13.26
Stddev	.0010	.0009	.009	.010	.005	.015	.0053	3.05	.78
%RSD	.1016	.0919	.2248	.2346	.4649	.3683	.5433	5.486	5.917
#1	.9783	.9992	3.991	4.375	1.051	4.085	.9872	57.68	13.82
#2	.9797	1.000	3.979	4.361	1.044	4.064	.9796	53.37	12.71

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	54.02	13.26	13.38	13.47	.0013	.0018	-.0069	.0233	.0142
Stddev	3.11	.78	.68	.68	.0007	.0001	.0005	.0010	.0004
%RSD	5.755	5.849	5.103	5.042	54.97	2.990	7.310	4.372	2.604
#1	56.22	13.81	13.86	13.95	.0018	.0017	-.0073	.0240	.0145
#2	51.82	12.71	12.90	12.99	.0008	.0018	-.0066	.0226	.0140

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Avg	-.0000	.0030	-.0525	.0088	.0167	.0050	.0001
Stddev	.0000	.0000	.0009	.0004	.0001	.0012	.0000
%RSD	104.2	.8503	1.700	4.738	.4561	23.69	9.914
#1	-.0000	.0030	.0531	.0091	.0166	.0058	.0001
#2	-.0000	.0029	.0518	.0085	.0167	.0041	.0001

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	68176.	9136.1	2358.4	3428.4
Stddev	64.	590.8	7.9	7.4
%RSD	.09440	6.4669	.33385	.21477
#1	68222.	8718.3	2352.9	3423.2
#2	68131.	9553.8	2364.0	3433.6

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Sample Name: mp80392-mb1 2 Acquired: 7/2/2014 3:57:21 Type: Unk
Method: Accutest1(v35) 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	.0010	.0001	.0001	.0002	.0012	.0004	.0004	.0006	.0001
Stddev	.0001	.0000	.0001	.0001	.0003	.0001	.0001	.0000	.0004
%RSD	5.303	40.38	226.4	51.87	21.37	21.51	16.53	6.398	505.5

#1	.0010	.0001	-0.000	.0003	.0014	.0003	.0004	.0006	.0004
#2	.0009	.0001	.0001	.0001	.0010	.0004	.0005	.0006	-.0002

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	-.0003	.0030	.0003	.0010	.0003	.0004	.0016	.0015	.0487
Stddev	.0001	.0001	.0001	.0002	.0012	.0009	.0004	.0020	.0029
%RSD	22.46	2.209	26.22	24.88	425.2	230.7	25.81	135.6	6.022

#1	-0.003	.0030	.0002	.0012	-.0006	-.0002	.0019	.0001	.0466
#2	-.0002	.0031	.0003	.0008	.0012	.0010	.0013	.0029	.0507

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0322	-.0111	.0492	.0102	.0002	.0004	-.0004	.0068	.0094
Stddev	.0028	.0024	.0210	.0015	.0001	.0001	.0009	.0002	.0001
%RSD	8.594	21.65	42.75	14.33	43.09	26.66	219.7	3.115	1.435

#1	.0303	-.0094	.0641	.0113	.0003	.0003	-.0011	.0069	.0095
#2	.0342	-.0128	.0343	.0092	.0002	.0005	.0002	.0066	.0093

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0001	.0007	.0025	.0006	.0059	-.0007	-.0006		
Stddev	.0001	.0002	.0001	.0002	.0008	.0007	.0007		
%RSD	70.65	27.06	5.662	28.55	13.27	88.60	104.9		

#1	.0002	.0006	.0026	.0007	.0054	-.0003	-.0011		
#2	.0001	.0009	.0024	.0004	.0065	-.0012	-.0002		

Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	69490.	9697.4	2409.8	3695.5					
Stddev	81.	51.0	.2	7.1					
%RSD	.11655	.52564	.00906	.19291					

#1	69433.	9661.3	2409.9	3700.6					
#2	69547.	9733.4	2409.6	3690.5					

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Sample Name: mp80392-s2 Acquired: 7/2/2014 4:09:16 Type: Unk
Method: Accutest1(v35) 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	3.768	.0948	.0953	.9612	.5474	.5619	2.737	1.107	.0870
Stddev	.004	.0005	.0001	.0047	.0012	.0004	.001	.006	.0002
%RSD	.1020	.5277	.1387	.4921	.2160	.0635	.0448	.5034	.1871

#1	3.766	.0944	.0952	.9579	.5466	.5621	2.736	1.103	.0871
#2	3.771	.0951	.0954	.9646	.5482	.5616	2.738	1.111	.0869

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	1.080	1.360	3.687	3.844	1.230	3.735	.4045	147.1	25.73
Stddev	.003	.008	.007	.014	.007	.004	.0013	.5	.14
%RSD	.3074	.6056	.2000	.3716	.5759	.0957	.3245	.3579	.5262

#1	1.078	1.354	3.682	3.834	1.225	3.732	.4054	146.8	25.64
#2	1.083	1.365	3.692	3.854	1.235	3.737	.4035	147.5	25.83

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	232.1	50.55	30.43	17.68	.0983	.0121	-.0125	4.448	.0286
Stddev	.6	.24	.04	.03	.0006	.0001	.0003	.009	.0001
%RSD	.2690	.4834	.1479	.1897	.5964	.4807	2.078	.2054	.2743

#1	231.6	50.38	30.46	17.66	.0978	.0122	-.0123	4.441	.0286
#2	232.5	50.72	30.40	17.70	.0987	.0121	-.0127	4.454	.0287

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.1715	2.361	.0486	.0568	83.35	.0202	.2193		
Stddev	.0001	.002	.0002	.0000	.14	.0018	.0008		
%RSD	.0652	.0816	.3104	.0668	.1720	8.824	.3480		

#1	.1714	2.360	.0487	.0568	83.25	.0214	.2188		
#2	.1716	2.363	.0485	.0569	83.45	.0189	.2199		

Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	68332.	10054.	2332.1	3286.5					
Stddev	110.	37.	.6	3.4					
%RSD	.16135	.37101	.02710	.10458					

#1	68410.	10081.	2331.6	3288.9					
#2	68254.	10028.	2332.5	3284.0					

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Sample Name: mp80392-s1 Acquired: 7/2/2014 4:03:26 Type: Unk
Method: Accutest1(v35) 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	3.741	.0947	.0945	.9530	.5262	.5295	2.494	1.071	.0889
Stddev	.003	.0004	.0011	.0024	.0010	.0003	.004	.003	.0014
%RSD	.0830	.4520	1.204	.2552	.1862	.0629	.1493	.2383	1.594

#1	3.739	.0950	.0953	.9547	.5255	.5297	2.492	1.073	.0899
#2	3.744	.0944	.0937	.9513	.5269	.5293	2.497	1.069	.0879

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	1.055	1.262	3.666	3.900	1.206	3.724	.4266	131.9	23.68
Stddev	.000	.005	.026	.023	.004	.026	.0034	.5	.20
%RSD	.0192	.3999	.7084	.5799	.3748	.7108	.7909	.3520	8650

#1	1.054	1.265	3.685	3.916	1.209	3.742	.4290	132.3	23.83
#2	1.055	1.258	3.648	3.884	1.203	3.705	.4242	131.6	23.54

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	191.7	44.44	28.78	17.08	.0922	.0086	-.0108	4.128	.0261
Stddev	1.1	.45	.01	.04	.0009	.0001	.0004	.030	.0009
%RSD	.5512	1.014	.0498	.2428	1.018	.9836	3.290	.7350	3.500

#1	192.5	44.75	28.77	17.05	.0929	.0087	-.0106	4.150	.0254
#2	191.0	44.12	28.79	17.11	.0916	.0086	-.0111	4.107	.0267

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.1538	2.192	.0477	.0567	62.26	.0164	.1711		
Stddev	.0001	.002	.0001	.0002	.39	.0019	.0002		
%RSD	.0469	.0680	.1488	.4054	.6329	11.26	.1415		

#1	.1539	2.191	.0476	.0568	62.54	.0151	.1709		
#2	.1538	2.193	.0477	.0565	61.98	.0177	.1713		

Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	68358.	10004.	2346.5	3291.7					
Stddev	27.	109.	6.8	3.3					
%RSD	.03924	1.0883	.28875	.10074					

#1	68377.	9926.5	2341.7	3289.3					
#2	68339.	10081.	2351.3	3294.0					

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Sample Name: jb70517-1 Acquired: 7/2/2014 4:15:07 Type: Unk
Method: Accutest1(v35) 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	2.291	.0058	.0014	.0708	.1724	.1116	1.946	.2021	-.0012
Stddev	.0000	.0000	.0000	.0001	.0002	.0005	.001	.0000	.0000
%RSD	.0139	.4428	1.836	.1834	.1257	.4489	.0707	.0071	2.483

#1	.2392	.0058	.0014	.0707	.1722	.1113	1.945	.2021	-.0012
#2	.2391	.0058	.0014	.0709	.1725	.1120	1.947	.2021	-.0012

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	1.902	.4291	.0852	.0103	.2310	.0040	-.0011	88.29	17.26
Stddev	.0008	.0001	.0004	.0014	.0004	.0013	.0007	.22	.04
%RSD	.4369	.0182	.4642	13.30	.1791	32.10	58.06	.2481	.2451

#1	.1896	.4292	.0849	.0112	.2307	.0049	-.0007	88.45	17.29
#2	.1907	.4291	.0855	.0093	.2313	.0031	-.0016	88.14	17.23

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	185.5	40.52	17.31	5.597	.0868	.0146	-.0042	3.731	.0272
Stddev	.1	.03	.03	.035	.0001	.0000	.0016	.018	.0003
%RSD	.0612	.0701	.1831	.6219	.0989	.2312	36.72	.4965	1.133

#1	185.6	40.54	17.33	5.622	.0869	.0146	-.0031	3.718	.0274
#2	185.4	40.50	17.29	5.572	.0868	.0147	-.0053	3.744	.0270

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.1777	2.143	.0051	.0498	89.69	.0152	.1922		
Stddev	.0003	.004	.0006	.0000	.24	.0014	.0001		
%RSD	.1538	.1967	11.33	.0360	.2705	9.332	.0284		

#1	.1779	2.140	.0047	.0497	89.52	.0142	.1922		
#2	.1775	2.146	.0055	.0498	89.87	.0162	.1921		

Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	69088.	9993.2	2371.6	3381.4					
Stddev	70.	39.2	5.8	1.4					
%RSD	.10103	.39207	.24324	.					

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Sample Name: mp80392-sd1 Acquired: 7/2/2014 4:21:03 Type: Unk
Method: Accutest1(v35) 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	.2461	.0059	.0011	.0726	.1817	.1086	2.059	.2080	.0019
Stddev	.0002	.0002	.0003	.0008	.0011	.0001	.003	.0022	.0006
%RSD	.0743	2.841	28.77	1.126	.6071	.0865	.1203	1.062	31.45
#1	.2462	.0058	.0008	.0720	.1810	.1087	2.061	.2064	.0023
#2	.2459	.0060	.0013	.0732	.1825	.1086	2.057	.2095	.0015
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.1958	.4612	.0845	.0126	.2408	-.0054	.0046	89.09	18.07
Stddev	.0006	.0029	.0038	.0040	.0036	.0029	.0016	.02	.04
%RSD	.3066	.6288	4.466	31.89	1.492	54.27	34.49	.0216	.1937
#1	.1953	.4592	.0872	.0154	.2382	-.0033	.0035	89.11	18.05
#2	.1962	.4633	.0819	.0097	.2433	-.0075	.0058	89.08	18.10
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	198.2	41.33	17.50	5.623	.0954	.0151	-.0023	3.903	.0291
Stddev	.3	.22	.08	.022	.0006	.0001	.0052	.002	.0006
%RSD	.1436	.5230	.4715	.4010	.6027	.8178	230.9	.0383	1.970
#1	198.0	41.48	17.44	5.607	.0950	.0152	-.0059	3.902	.0287
#2	198.4	41.18	17.56	5.639	.0958	.0150	.0014	3.904	.0295
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.1825	2.229	.0024	.0505	93.15	.0129	.1932		
Stddev	.0003	.007	.0081	.0007	.20	.0016	.0041		
%RSD	.1507	.3135	334.1	1.385	.2101	12.10	2.122		
#1	.1827	2.234	.0082	.0500	93.01	.0140	.1903		
#2	.1823	2.224	-.0033	.0510	93.29	.0118	.1961		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	69293.	9794.8	2407.4	3556.1					
Stddev	208.	12.2	2.7	10.7					
%RSD	.29974	.12415	.11330	.30069					
#1	69440.	9803.4	2409.3	3563.6					
#2	69146.	9786.2	2405.4	3548.5					

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Sample Name: jb70517-2 Acquired: 7/2/2014 4:27:02 Type: Unk
Method: Accutest1(v35) 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	.2489	.0038	.0008	.0326	.1049	.0930	1.079	.1135	.0003
Stddev	.0003	.0000	.0000	.0001	.0003	.0001	.001	.0002	.0004
%RSD	.1359	1.117	4.480	.4364	.2478	.0874	.0577	.2127	124.8
#1	.2487	.0038	.0008	.0328	.1050	.0931	1.078	.1133	.0000
#2	.2492	.0038	.0008	.0325	.1047	.0929	1.079	.1137	.0006
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.1431	.2773	.0478	.0042	.4562	.0031	-.0007	50.86	17.95
Stddev	.0004	.0002	.0005	.0010	.0008	.0024	.0004	.05	.05
%RSD	.2933	.0847	1.059	23.52	.1684	76.48	56.22	.1071	2622
#1	.1428	.2775	.0474	.0049	.4557	.0014	-.0004	50.90	17.98
#2	.1434	.2771	.0481	.0035	.4568	.0048	-.0010	50.82	17.92
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	115.2	20.99	9.805	3.254	.1015	.0100	.0022	4.048	.0305
Stddev	.2	.04	.070	.023	.0000	.0001	.0001	.002	.0006
%RSD	.1901	.2012	.7107	.6933	.0040	1.412	5.351	.0534	2.084
#1	115.3	21.02	9.755	3.238	.1015	.0101	.0023	4.049	.0301
#2	115.0	20.96	9.854	3.270	.1015	.0099	.0021	4.046	.0310
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.1906	1.552	.0039	.0396	71.87	.0083	.1083		
Stddev	.0004	.002	.0003	.0003	.00	.0012	.0008		
%RSD	.1914	.1173	6.893	.6650	.0026	13.80	.7378		
#1	.1904	1.551	.0041	.0398	71.88	.0075	.1077		
#2	.1909	1.554	.0037	.0395	71.87	.0092	.1088		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	69587.	9928.8	2387.1	3439.9					
Stddev	8.	11.4	5.2	2.5					
%RSD	.01087	.11437	.21892	.07251					
#1	69582.	9920.7	2383.4	3438.1					
#2	69593.	9936.8	2390.8	3441.7					

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Sample Name: jb70536-1 Acquired: 7/2/2014 4:32:58 Type: Unk
Method: Accutest1(v35) 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	.5845	.0033	.0012	.0305	.0865	.3663	1.235	.1435	.0010
Stddev	.0012	.0002	.0002	.0002	.0003	.0015	.000	.0002	.0007
%RSD	.2015	5.703	16.23	.5566	.3254	.4100	.0195	.1170	74.24
#1	.5854	.0032	.0011	.0303	.0863	.3674	1.235	.1434	.0005
#2	.5837	.0035	.0014	.0306	.0867	.3652	1.235	.1436	.0015
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.1190	.5692	.0475	.0041	1.324	.0063	.0037	55.13	11.61
Stddev	.0001	.0022	.0003	.0009	.000	.0001	.0005	.01	.02
%RSD	.0652	.3779	.6543	21.85	.0112	2.373	14.69	.0186	.1437
#1	.1191	.5677	.0477	.0047	1.324	.0064	.0040	55.14	11.60
#2	.1190	.5707	.0472	.0034	1.324	.0062	.0033	55.12	11.62
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	91.84	15.13	5.875	8.760	.0265	.0030	-.0072	5.485	.0464
Stddev	.00	.06	.013	.0008	.0002	.0001	.0013	.006	.0009
%RSD	.0002	.3834	.2128	.0929	.8327	3.784	17.72	.1157	1.959
#1	91.84	15.09	5.884	.8766	.0266	.0029	-.0063	5.480	.0470
#2	91.84	15.17	5.866	.8755	.0263	.0031	-.0082	5.489	.0457
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.1185	1.550	.0073	.0064	1.155	.0049	.0763		
Stddev	.0003	.001	.0005	.0000	.001	.0017	.0005		
%RSD	.2796	.0377	7.171	.7306	.0719	34.99	.6545		
#1	.1187	1.550	.0069	.0063	1.155	.0061	.0766		
#2	.1182	1.551	.0077	.0064	1.156	.0037	.0759		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	69515.	9888.2	2400.8	3460.4					
Stddev	51.	28.9	6.6	8.2					
%RSD	.07355	.29197	.27556	.23773					
#1	69479.	9867.8	2405.5	3466.3					
#2	69551.	9908.6	2396.1	3454.6					

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Sample Name: jb70536-2 Acquired: 7/2/2014 4:38:54 Type: Unk
Method: Accutest1(v35) 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	.8884	.0060	.0020	.0554	.1516	.5736	4.033	.1440	.0017
Stddev	.0024	.0002	.0001	.0002	.0004	.0026	.006	.0004	.0005
%RSD	.2695	3.139	2.940	.3012	.2815	.4482	.1513	.3079	30.41
#1	.8901	.0061	.0021	.0555	.1519	.5717	4.037	.1443	.0020
#2	.8867	.0059	.0020	.0553	.1513	.5754	4.028	.1437	.0013
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.2193	.5357	.0428	.0051	.6604	.0030	.0017	73.88	11.21
Stddev	.0000	.0006	.0008	.0018	.0033	.0004	.0005	.14	.03
%RSD	.0199	.1078	1.964	34.49	.4974	14.78	30.26	.1898	.2460
#1	.2192	.5353	.0422	.0039	.6581	.0033	.0020	73.98	11.19
#2	.2193	.5361	.0434	.0064	.6627	.0027	.0013	73.78	11.23
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	139.8	25.13	10.89	10.64	.0400	.0047	-.0124	7.302	.0471
Stddev	.2	.12	.02	.02	.0001	.0000	.0007	.005	.0000
%RSD	.1509	.4913	.1673	.1495	.1862	.2772	5.981	.0733	.0754
#1	139.7	25.05	10.91	10.65	.0400	.0047	-.0119	7.306	.0472
#2	140.0	25.22	10.88	10.63	.0401	.0047	-.0130	7.298	.0471
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.1294	2.913	.0132	.0347	.4735	.0075	.1103		
Stddev	.0003	.004	.0008	.0004	.0038	.0002	.0003		
%RSD	.1951	.1260	6.159	1.026	.8020	2.424	.2755		
#1	.1296	2.916	.0138	.0345	.4708	.0073	.1101		
#2	.1293	2.910	.0126	.0350	.4762	.0076	.1105		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	70593.	10168.	2438.5	3382.8					
Stddev	49.	24.	2.2	5.0					
%RSD	.06897	.24045	.09072	.14760					
#1	70558.	10185.	2440.0	3386.2					
#2	70627.	10150.	2436.9	3379.1					

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Sample Name: ccv Acquired: 7/2/2014 4:44:53 Type: QC									
Method: Accutest1(v35) 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	1.921	1.927	1.954	1.997	1.988	1.874	1.988	2.012	2.378
Stddev	.000	.012	.002	.004	.000	.000	.001	.004	.0010
%RSD	.0053	.6361	.0805	.1899	.0195	.0068	.0340	.2144	.4207
#1	1.921	1.918	1.953	1.994	1.988	1.874	1.989	2.009	2.371
#2	1.921	1.936	1.955	2.000	1.987	1.874	1.988	2.015	2.385
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	1.960	1.968	1.922	2.077	2.044	1.940	1.960	38.78	38.82
Stddev	.002	.003	.001	.003	.004	.004	.001	.16	.30
%RSD	.0872	.1479	.0465	.1533	.1960	.2317	.0592	.4020	.7809
#1	1.961	1.966	1.921	2.075	2.041	1.937	1.961	38.67	38.61
#2	1.958	1.970	1.923	2.079	2.046	1.943	1.960	38.89	39.04
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	38.18	38.23	38.83	39.09	1.955	1.984	1.949	4.996	2.020
Stddev	.21	.21	.01	.01	.000	.001	.007	.002	.002
%RSD	.5457	.5518	.0364	.0279	.0144	.0369	.3672	.0362	.0960
#1	38.03	38.08	38.84	39.08	1.955	1.985	1.944	4.997	2.019
#2	38.33	38.38	38.82	39.10	1.955	1.984	1.954	4.995	2.021
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: 7/2/2014 4:44:53 Type: QC									
Method: Accutest1(v35) 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	1.933	1.954	1.880	1.960	1.903	1.984	1.936		
Stddev	.004	.001	.007	.001	.003	.004	.000		
%RSD	.2223	.0742	.3545	.0271	.1641	.2002	.0053		
#1	1.930	1.953	1.875	1.960	1.901	1.981	1.936		
#2	1.936	1.955	1.884	1.960	1.905	1.987	1.936		
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	66592.	9540.2	2301.9	3264.1					
Stddev	92.	49.2	1.4	1.5					
%RSD	.13817	.51549	.06201	.04733					
#1	66657.	9575.0	2300.9	3263.0					
#2	66527.	9505.4	2302.9	3265.2					

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Sample Name: ccb Acquired: 7/2/2014 4:50:42 Type: QC									
Method: Accutest1(v35) 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	.0002	.0000	.0003	.0003	-.0003	.0003	.0005	.0000
Stddev	.0002	.0000	.0001	.0001	.0002	.0000	.0000	.0003	.0001
%RSD	120.6	24.72	1548.	28.67	59.53	11.41	3.056	57.22	353.8
#1	.0003	.0002	.0001	.0004	.0002	-.0003	.0003	.0008	.0001
#2	.0000	.0002	-.0001	.0002	.0005	-.0003	.0003	.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	.0000	.0003	.0012	.0003	.0002	-.0020	.0004	-.0037	.0052
Stddev	.0000	.0001	.0003	.0004	.0005	.0005	.0003	.0026	.0008
%RSD	32.66	42.74	28.23	146.7	309.6	22.26	80.89	70.92	15.16
#1	.0000	.0004	.0009	.0005	-.0002	-.0024	.0002	-.0056	.0046
#2	.0000	.0002	.0014	-.0000	.0005	-.0017	.0006	-.0018	.0058
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	.0087	.0046	.0473	-.0005	.0012	.0015	-.0010	.0074	.0000
Stddev	.0000	.0312	.0103	.0001	.0003	.0006	.0003	.0004	.0003
%RSD	.3577	673.0	21.77	11.43	23.08	38.76	25.78	6.020	2963.
#1	.0087	-.0174	.0545	-.0005	.0013	.0020	-.0008	.0070	.0002
#2	.0087	.0267	.0400	-.0005	.0010	.0011	-.0012	.0077	-.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: 7/2/2014 4:50:42 Type: QC									
Method: Accutest1(v35) 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	.0073	.0008	.0014	.0016	-.0004		
Stddev	.0001	.0004	.0009	.0001	.0002	.0009	.0003		
%RSD	39.81	74.39	12.01	18.26	11.09	56.44	79.50		
#1	.0001	.0008	.0079	.0007	.0016	.0022	-.0007		
#2	.0002	.0002	.0067	.0009	.0013	.0010	-.0002		
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	69915.	9684.5	2415.6	3684.3					
Stddev	261.	15.8	6.5	8.8					
%RSD	.37366	.16270	.26979	.23827					
#1	69731.	9695.7	2411.0	3678.1					
#2	70100.	9673.4	2420.2	3690.5					

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Sample Name: jb70536-3 Acquired: 7/2/2014 4:56:50 Type: Unk
 Method: Accutest1(v35) 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	.5196	.0048	.0021	.0503	.1362	.4948	4.058	.1267	.0012
Stddev	.0007	.0000	.0003	.0004	.0006	.0008	.001	.0006	.0001
%RSD	.1304	.5033	12.95	.8063	.4413	.1647	.0205	.5060	9.721
#1	.5201	.0048	.0023	.0500	.1358	.4942	4.057	.1262	.0011
#2	.5191	.0048	.0019	.0506	.1366	.4954	4.058	.1272	.0013
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.1865	.4071	.0399	.0064	1.030	.0028	.0052	54.87	17.34
Stddev	.0001	.0017	.0014	.0005	.002	.0021	.0008	.03	.03
%RSD	.0690	.4249	3.586	7.500	.1606	75.81	15.45	.0550	.1952
#1	.1866	.4058	.0389	.0067	1.029	.0043	.0046	54.84	17.36
#2	.1864	.4083	.0409	.0060	1.031	.0013	.0058	54.89	17.31
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	120.0	21.33	9.296	6.643	.0344	.0060	-.0121	6.628	.7212
Stddev	.3	.16	.016	.023	.0004	.0003	.0000	.005	.0007
%RSD	.2898	.7452	.1763	.3446	1.056	5.564	.0365	.0726	.0960
#1	120.3	21.44	9.307	6.627	.0342	.0062	-.0121	6.632	.7207
#2	119.8	21.21	9.284	6.660	.0347	.0058	-.0121	6.625	.7217
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.1005	2.508	.0159	.0379	.3045	.0083	.0874		
Stddev	.0003	.001	.0023	.0001	.0008	.0004	.0004		
%RSD	.2778	.0379	14.34	.2367	.2718	4.441	.4027		
#1	.1007	2.507	.0176	.0378	.3040	.0080	.0871		
#2	.1003	2.509	.0143	.0380	.3051	.0085	.0876		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	70271.	10091.	2424.5	3394.9					
Stddev	10.	44.	.4	5.7					
%RSD	.01406	.43145	.01776	.16758					
#1	70278.	10060.	2424.2	3398.9					
#2	70264.	10122.	2424.8	3390.9					

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Sample Name: jb70536-4 Acquired: 7/2/2014 5:02:46 Type: Unk
 Method: Accutest1(v35) 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	.3496	.0049	.0009	.0435	.1283	.2841	2.302	.1080	-.0004
Stddev	.0006	.0001	.0001	.0004	.0005	.0008	.002	.0003	.0008
%RSD	.1828	2.912	8.256	.8570	.4144	.2828	.0894	.2724	217.7
#1	.3501	.0050	.0009	.0432	.1287	.2836	2.303	.1082	.0002
#2	.3492	.0048	.0008	.0437	.1279	.2847	2.300	.1078	-.0009
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.1832	.3582	.0345	.0028	.3610	.0016	.0004	56.00	9.311
Stddev	.0002	.0006	.0008	.0002	.0000	.0016	.0003	.26	.017
%RSD	.0894	.1738	2.451	5.858	.0045	96.99	59.27	.4660	.1806
#1	.1831	.3578	.0351	.0029	.3610	.0027	.0003	56.19	9.323
#2	.1834	.3587	.0339	.0027	.3610	.0005	.0006	55.82	9.299
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	109.1	25.32	6.019	4.880	.0232	.0030	-.0061	6.687	.0402
Stddev	.1	.06	.020	.011	.0003	.0001	.0008	.025	.0007
%RSD	.0705	.2348	.3259	.2279	1.360	2.849	13.95	.3663	1.762
#1	109.2	25.28	6.005	4.888	.0229	.0029	-.0067	6.704	.0407
#2	109.1	25.36	6.033	4.872	.0234	.0031	-.0055	6.670	.0397
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0816	1.922	.0130	.0348	.2411	.0007	.0887		
Stddev	.0004	.001	.0009	.0000	.0002	.0007	.0015		
%RSD	.4692	.0577	6.532	.1152	.0782	102.8	1.675		
#1	.0819	1.921	.0136	.0348	.2412	.0002	.0876		
#2	.0813	1.923	.0124	.0349	.2410	.0011	.0897		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	70695.	10116.	2440.5	3438.9					
Stddev	134.	32.	5.4	2.6					
%RSD	.18955	.31408	.21937	.07544					
#1	70600.	10138.	2436.7	3437.1					
#2	70789.	10093.	2444.3	3440.8					

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Sample Name: jb70536-5 Acquired: 7/2/2014 5:08:43 Type: Unk
 Method: Accutest1(v35) 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	.6865	.0042	.0010	.0404	.1089	.1481	1.615	.1041	.0034
Stddev	.0031	.0000	.0001	.0003	.0006	.0003	.000	.0003	.0002
%RSD	.4586	1.123	14.41	.6309	.5251	.2028	.0058	.3156	6.629
#1	.6887	.0042	.0011	.0405	.1093	.1459	1.615	.1043	.0036
#2	.6843	.0042	.0009	.0402	.1085	.1463	1.615	.1039	.0032
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.1866	.2711	.0283	-.0083	.2611	.0053	.0004	61.81	317.8
Stddev	.0001	.0002	.0012	.0002	.0014	.0025	.0022	.13	.3
%RSD	.0473	.0657	4.391	2.636	.5374	46.80	611.8	.2167	.0851
#1	.1865	.2712	.0274	-.0085	.2601	.0070	.0019	61.91	318.0
#2	.1866	.2709	.0292	-.0082	.2621	.0035	-.0012	61.72	317.7
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	84.72	33.17	5.595	9.710	.0273	.0085	-.0100	6.741	.0418
Stddev	.04	.01	.008	.025	.0011	.0003	.0001	.016	.0009
%RSD	.0492	.0445	.1492	.2576	3.934	3.071	.9213	.2321	2.190
#1	84.69	33.18	5.600	9.728	.0265	.0083	-.0100	6.730	.0425
#2	84.75	33.16	5.589	9.693	.0280	.0087	-.0101	6.752	.0412
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	1.969	2.985	-.0270	.0692	3.080	.0091	.0877		
Stddev	.007	.005	.0003	.0002	.000	.0009	.0009		
%RSD	.3635	.1745	1.266	.2313	.0087	9.825	1.009		
#1	1.974	2.989	-.0268	.0690	3.079	.0097	.0884		
#2	1.964	2.981	-.0272	.0693	3.080	.0084	.0871		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	66103.	9735.3	2266.3	3056.8					
Stddev	223.	32.9	3.6	3.8					
%RSD	.33685	.33782	.15953	.12462					
#1	65945.	9712.0	2268.9	3059.5					
#2	66260.	9758.5	2263.8	3054.1					

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Sample Name: jb70536-6 Acquired: 7/2/2014 5:14:41 Type: Unk
 Method: Accutest1(v35) 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	.9793	.0030	.0012	.0340	.0940	.2209	1.362	.0939	.0018
Stddev	.0037	.0000	.0001	.0000	.0011	.0012	.008	.0007	.0002
%RSD	.3826	.6956	10.40	.0585	1.137	.5395	.5764	.7457	12.26
#1	.9820	.0030	.0013	.0339	.0948	.2201	1.368	.0934	.0017
#2	.9767	.0030	.0011	.0340	.0933	.2217	1.356	.0943	.0020
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.1333	1.112	.0440	.0013	.7991	.0061	.0019	50.63	29.90
Stddev	.0006	.004	.0013	.0005	.0008	.0015	.0007	.09	.08
%RSD	.4548	.3130	3.028	35.60	.1051	24.61	36.93	.1851	.2765
#1	.1337	1.110	.0450	.0010	.7997	.0071	.0024	50.56	29.84
#2	.1329	1.115	.0431	.0016	.7985	.0050	.0014	50.70	29.96
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	85.46	13.08	4.834	5.320	.0219	.0039	-.0036	7.006	.0409
Stddev	.18	.04	.029	.012	.0002	.0002	.0002	.002	.0004
%RSD	.2128	.3033	.5995	.2201	.7064	4.544	6.453	.0280	1.040
#1	85.33	13.05	4.855	5.328	.0220	.0040	-.0038	7.008	.0412
#2	85.59	13.11	4.814	5.312	.0218	.0038	-.0035	7.005	.0406
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.2250	1.429	.0094	.0331	.8603	.0061	.0855		
Stddev	.0002	.006	.0008	.0001	.0014	.0003	.0012		
%RSD	.0680	.4352	8.328	.2339	.1669	5.235	1.437		
#1	.2251	1.433	.0100	.0331	.8613	.0063	.0846		
#2	.2249	1.425	.0089	.0330	.8593	.0059	.0864		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	69106.	9848.5	2382.2	3406.9					
Stddev	289.	27.6	3.0	9.7					
%RSD	.41773	.28022	.12566	.28584					
#1	68902.	9868.0	2384.4	3413.8					
#2	69311.	9829.0	2380.1	3400.0					

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Sample Name: jb70536-7 Acquired: 7/2/2014 5:20:39 Type: Unk
 Method: Accutest1(v35) 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	.4114	.0038	.0010	.0342	.1107	.0800	.9650	.0932	.0002
Stddev	.0013	.0000	.0000	.0001	.0007	.0004	.0015	.0005	.0002
%RSD	.3209	.2818	3.657	.4113	.6385	.4777	.1551	.5230	77.99
#1	.4123	.0038	.0009	.0343	.1112	.0797	.9660	.0929	.0003
#2	.4104	.0038	.0010	.0341	.1102	.0803	.9639	.0936	.0001
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.1799	.3271	.0352	.0034	.0709	.0036	.0018	.86.82	8.568
Stddev	.0002	.0003	.0006	.0001	.0008	.0035	.0000	.02	.025
%RSD	.0955	.0770	1.739	1.592	1.115	96.35	1.644	.0253	.2925
#1	.1798	.3273	.0347	.0033	.0715	.0011	.0019	86.80	8.550
#2	.1801	.3269	.0356	.0034	.0703	.0061	.0018	86.83	8.586
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.119.8	.11.88	4.210	7.553	.0213	.0062	-.0082	7.474	.0198
Stddev	.0	.04	.005	.018	.0001	.0001	.0010	.009	.0000
%RSD	.0141	.2959	.1179	.2347	.3856	1.173	12.36	.1158	.0573
#1	.119.8	.11.85	4.214	7.565	.0214	.0061	-.0075	7.480	.0198
#2	.119.8	.11.90	4.207	7.540	.0213	.0062	-.0089	7.468	.0198
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0982	1.492	.0097	.0329	.3127	.0081	.0739		
Stddev	.0002	.002	.0018	.0003	.0009	.0005	.0006		
%RSD	.2460	.1092	18.50	1.019	.2965	6.348	.8633		
#1	.0984	1.493	.0084	.0331	.3120	.0085	.0734		
#2	.0981	1.491	.0110	.0326	.3133	.0077	.0743		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	69106.	9838.5	2402.1	3437.0					
Stddev	276.	15.9	4.3	7.8					
%RSD	.39912	.16159	.17855	.22767					
#1	68911.	9849.7	2399.0	3431.5					
#2	69301.	9827.2	2405.1	3442.5					

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Sample Name: jb70536-8 Acquired: 7/2/2014 5:26:37 Type: Unk
 Method: Accutest1(v35) 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	.2496	.0024	.0006	.0244	.0501	.0877	1.011	.0741	.0002
Stddev	.0007	.0000	.0002	.0000	.0000	.0001	.001	.0006	.0000
%RSD	.2993	.3657	36.70	.0845	.0426	.0713	.0771	.7757	7.354
#1	.2502	.0024	.0007	.0243	.0501	.0877	1.012	.0745	.0002
#2	.2491	.0024	.0004	.0244	.0501	.0878	1.011	.0737	.0002
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0779	.2501	.0232	.0026	.1610	.0033	-.0000	37.64	5.143
Stddev	.0005	.0004	.0002	.0007	.0011	.0010	.0006	.04	.008
%RSD	.6774	.1743	.9681	27.18	.6538	29.81	1356.	.1050	.1581
#1	.0783	.2498	.0231	.0021	.1602	.0026	-.0005	37.67	5.137
#2	.0775	.2504	.0234	.0031	.1617	.0039	.0004	37.62	5.148
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.63.87	8.267	3.121	1.329	.0151	.0019	-.0026	5.688	.0189
Stddev	.14	.021	.014	.003	.0002	.0002	.0004	.001	.0005
%RSD	.2221	.2520	.4602	.2191	1.418	9.831	16.45	.0112	2.847
#1	63.77	8.282	3.111	1.331	.0150	.0017	-.0029	5.689	.0186
#2	63.97	8.252	3.132	1.327	.0153	.0020	-.0023	5.688	.0193
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0510	.8617	.0064	.0179	.1837	.0024	.0449		
Stddev	.0001	.0018	.0006	.0003	.0005	.0011	.0013		
%RSD	.2271	.2111	9.363	1.741	.2470	44.14	2.899		
#1	.0511	.8604	.0069	.0182	.1840	.0032	.0458		
#2	.0509	.8630	.0060	.0177	.1834	.0017	.0440		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	70350.	9940.4	2430.6	3524.2					
Stddev	1.	.1	4.7	1.8					
%RSD	.00185	.00071	.19522	.05239					
#1	70351.	9940.4	2427.2	3522.9					
#2	70349.	9940.5	2433.9	3525.5					

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Sample Name: jb70536-9 Acquired: 7/2/2014 5:32:36 Type: Unk
 Method: Accutest1(v35) 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	.6627	.0031	.0007	.0335	.0767	.1191	2.607	.0782	.0017
Stddev	.0018	.0000	.0001	.0003	.0003	.0003	.001	.0004	.0002
%RSD	.2715	1.522	18.02	1.003	.4065	.2407	.0180	.5415	9.205
#1	.6639	.0031	.0007	.0338	.0770	.1193	2.607	.0785	.0016
#2	.6614	.0031	.0008	.0333	.0765	.1189	2.608	.0779	.0018
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.1061	.2554	.0297	.0028	.1204	.0037	.0001	49.38	6.489
Stddev	.0005	.0001	.0002	.0005	.0012	.0025	.0002	.30	.052
%RSD	.4715	.0290	.7412	19.20	.9695	68.31	209.5	.6004	.8089
#1	.1058	.2554	.0299	.0025	.1196	.0055	.0002	49.59	6.526
#2	.1065	.2553	.0295	.0032	.1212	.0019	-.0000	49.17	6.452
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.86.89	11.95	4.841	2.298	.0201	.0052	-.0058	6.307	.0201
Stddev	.44	.03	.015	.006	.0002	.0002	.0008	.027	.0003
%RSD	.5061	.2248	.3035	.2505	1.046	4.186	13.68	.4282	1.534
#1	87.20	11.97	4.851	2.302	.0202	.0054	-.0052	6.326	.0198
#2	86.58	11.93	4.830	2.294	.0199	.0050	-.0063	6.288	.0203
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0651	1.183	.0106	.0193	.2771	.0037	.0744		
Stddev	.0002	.002	.0002	.0001	.0010	.0010	.0004		
%RSD	.2945	.1626	1.798	.5660	.3502	26.52	.5961		
#1	.0653	1.184	.0108	.0194	.2778	.0044	.0747		
#2	.0650	1.182	.0105	.0192	.2764	.0030	.0741		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	70264.	9861.8	2437.7	3495.7					
Stddev	5.	50.1	3.9	3.1					
%RSD	.00702	.51885	.15944	.08801					
#1	70261.	9826.3	2435.0	3493.5					
#2	70268.	9897.2	2440.5	3497.8					

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Sample Name: jb70536-10 Acquired: 7/2/2014 5:38:34 Type: Unk
 Method: Accutest1(v35) 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	.3486	.0037	.0008	.0297	.0903	.1948	2.212	.0866	-.0051
Stddev	.0007	.0000	.0002	.0003	.0005	.0013	.003	.0001	.0003
%RSD	.1894	1.143	26.09	1.027	.5739	.6492	.1517	.0864	6.398
#1	.3491	.0037	.0007	.0299	.0906	.1957	2.215	.0865	-.0049
#2	.3482	.0037	.0010	.0294	.0899	.1939	2.210	.0866	-.0053
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.1115	.2979	.0505	.0072	.1950	.0055	.0006	51.68	5.375
Stddev	.0003	.0001	.0006	.0009	.0014	.0006	.0004	.13	.017
%RSD	.2980	.0427	1.165	12.04	.7063	10.82	64.44	.2460	.3111
#1	.1117	.2980	.0509	.0066	.1960	.0060	.0009	51.77	5.387
#2	.1113	.2979	.0500	.0079	.1940	.0051	.0003	51.59	5.363
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.238.8	10.87	3.708	4.483	.0177	.0051	-.0231	6.422	.0198
Stddev	.8	.00	.003	.002	.0003	.0001	.0004	.056	.0007
%RSD	.3397	.0114	.0755	.0392	1.827	1.635	1.534	.8712	3.463
#1	239.4	10.87	3.710	4.482	.0179	.0052	-.0234	6.461	.0193
#2	238.3	10.87	3.706	4.484	.0174	.0051	-.0229	6.382	.0203
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0609	1.212	.0119	.0092	.6608	.0193	.0667		
Stddev	.0001	.002	.0001	.0002	.0046	.0004	.0002		
%RSD	.1615	.1331	.5350	1.765	.7031	2.246	.3233		
#1	.0610	1.213	.0119	.0094	.6641	.0190	.0665		
#2	.0608	1.210	.0120	.0091	.6575	.0196	.0668		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	69147.	9952.4	2393.1	3478.2					
Stddev	54.	7.2	8.4	8.4					
%RSD	.07858	.07243	.35198	.24175					
#1	69109.	9957.5	2387.1	3472.3					
#2	69186.	9947.3	2399.0	3484.2					

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Sample Name: jb70536-11 Acquired: 7/2/2014 5:44:31 Type: Unk
Method: Accutest1(v35) 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	.4951	.0055	.0007	.0417	.1303	.5126	1.967	.1137	.0012
Stddev	.0003	.0001	.0000	.0002	.0010	.0009	.003	.0002	.0002
%RSD	.0604	1.917	3.315	.4850	.7997	.1833	.1735	.1350	14.73
#1	.4953	.0055	.0008	.0416	.1310	.5119	1.969	.1136	.0011
#2	.4948	.0054	.0007	.0419	.1295	.5132	1.964	.1139	.0013
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.1613	.2982	.0358	.0045	.6973	.0051	.0005	56.67	7.434
Stddev	.0002	.0008	.0003	.0001	.0001	.0008	.0007	.00	.047
%RSD	.1459	.2642	.8994	1.324	.0145	16.13	133.3	.0047	.6277
#1	.1611	.2976	.0361	.0044	.6972	.0056	.0011	56.66	7.401
#2	.1615	.2987	.0356	.0045	.6974	.0045	.0000	56.67	7.467
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	117.0	21.35	10.38	4.572	.0390	.0032	-.0038	12.53	.0314
Stddev	.1	.21	.04	.016	.0009	.0003	.0001	.01	.0004
%RSD	.1155	.9832	.4000	.3398	2.323	10.39	2.432	.0735	1.210
#1	116.9	21.20	10.41	4.583	.0384	.0034	-.0037	12.54	.0311
#2	117.1	21.50	10.35	4.561	.0396	.0029	-.0038	12.53	.0317
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0722	2.671	.0148	.0225	.3300	.0053	.0089		
Stddev	.0000	.008	.0008	.0002	.0036	.0009	.0097		
%RSD	.0361	.2912	5.291	.9896	1.090	17.07	.9656		
#1	.0722	2.676	.0142	.0223	.3275	.0046	.0903		
#2	.0722	2.665	.0153	.0226	.3326	.0059	.0891		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	71165.	10164.	2439.3	3444.0					
Stddev	16.	4.	5.9	8.8					
%RSD	.02270	.04190	.24223	.25469					
#1	71154.	10161.	2443.5	3450.2					
#2	71177.	10167.	2435.2	3437.8					

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Sample Name: jb70536-12 Acquired: 7/2/2014 5:50:28 Type: Unk
Method: Accutest1(v35) 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	.6631	.0021	.0006	.0209	.0631	.3979	.8168	.0929	.0003
Stddev	.0009	.0000	.0002	.0002	.0002	.0000	.0020	.0003	.0004
%RSD	.1299	1.610	25.45	1.036	.2914	.0079	.2387	.3694	149.8
#1	.6638	.0021	.0007	.0208	.0632	.3979	.8182	.0926	.0005
#2	.6625	.0021	.0005	.0211	.0629	.3979	.8154	.0931	-.0000
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0820	.4586	.0690	.0024	3.221	.0017	.0024	32.07	3.393
Stddev	.0001	.0023	.0008	.0006	.015	.0001	.0001	.03	.022
%RSD	.1457	.5012	1.118	23.34	.4561	6.228	3.659	.0820	.6470
#1	.0819	.4570	.0696	.0020	3.210	.0017	.0024	32.09	3.408
#2	.0821	.4602	.0685	.0028	3.231	.0016	.0023	32.05	3.377
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	67.45	8.100	2.667	.5028	.0119	.0041	-.0039	4.507	.0302
Stddev	.22	.032	.017	.0002	.0002	.0000	.0001	.005	.0000
%RSD	.3266	.3942	.6447	.0329	1.578	.1754	1.870	.1230	.0378
#1	67.61	8.123	2.654	.5030	.0118	.0041	-.0038	4.511	.0302
#2	67.30	8.078	2.679	.5027	.0120	.0041	-.0039	4.503	.0302
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0354	.9550	.0049	.0149	.3523	.0035	.0441		
Stddev	.0000	.0013	.0001	.0001	.0002	.0004	.0001		
%RSD	.1282	.1405	1.168	.4688	.0666	11.50	.2071		
#1	.0354	.9559	.0049	.0148	.3525	.0032	.0441		
#2	.0354	.9540	.0050	.0149	.3521	.0037	.0442		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	70060.	9846.4	2419.6	3547.0					
Stddev	105.	74.5	6.4	5.2					
%RSD	.15002	.75640	.26365	.14628					
#1	69985.	9793.7	2415.1	3543.4					
#2	70134.	9899.1	2424.1	3550.7					

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Sample Name: ccv Acquired: 7/2/2014 5:56:29 Type: QC
Method: Accutest1(v35) 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	1.932	1.920	1.954	1.996	1.993	1.874	1.992	2.013	.2374
Stddev	.002	.002	.005	.007	.013	.012	.003	.009	.0012
%RSD	.1152	.0771	.2433	.3748	.6283	.6629	.1352	.4205	.4877
#1	1.933	1.922	1.957	1.991	2.002	1.883	1.994	2.007	.2382
#2	1.930	1.919	1.951	2.002	1.985	1.865	1.990	2.019	.2365
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	1.961	1.971	1.924	2.072	2.045	1.938	1.959	38.68	38.62
Stddev	.007	.011	.002	.001	.007	.005	.009	.06	.01
%RSD	.3683	.5372	.1068	.0359	.3319	.2533	.4479	.1488	.0301
#1	1.966	1.963	1.923	2.072	2.040	1.942	1.965	38.72	38.61
#2	1.956	1.978	1.926	2.073	2.050	1.935	1.953	38.64	38.63
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	38.09	38.06	39.02	39.18	1.956	1.983	1.951	4.989	2.022
Stddev	.03	.02	.05	.07	.003	.003	.015	.011	.004
%RSD	.0698	.0443	.1169	.1820	.1301	.1364	.7916	.2205	.1917
#1	38.10	38.04	39.05	39.23	1.958	1.981	1.962	4.996	2.019
#2	38.07	38.07	38.98	39.13	1.954	1.985	1.940	4.981	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: ccv Acquired: 7/2/2014 5:56:29 Type: QC
Method: Accutest1(v35) 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	1.940	1.955	1.884	1.964	1.913	1.979	1.946		
Stddev	.000	.003	.009	.006	.002	.010	.006		
%RSD	.0217	.1492	.4492	.3235	.1063	.5189	.3018		
#1	1.941	1.957	1.878	1.968	1.914	1.987	1.950		
#2	1.940	1.953	1.890	1.959	1.911	1.972	1.942		
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	66424.	9605.4	2307.0	3269.4					
Stddev	161.	7.4	1.8	4.3					
%RSD	.24195	.07680	.07700	.13173					
#1	66310.	9610.7	2305.7	3272.4					
#2	66537.	9600.2	2308.2	3266.3					

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Sample Name: ccb Acquired: 7/2/2014 6:02:18 Type: QC
Method: Accutest1(v35) 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	.0007	.0003	.0001	.0005	.0004	.0000	.0004	.0003	.0004
Stddev	.0001	.0001	.0000	.0003	.0001	.0000	.0000	.0002	.0000
%RSD	10.12	29.05	28.56	51.60	27.88	110.9	8.870	49.82	8.166
#1	.0006	.0004	.0001	.0007	.0005	-.0000	.0004	.0004	-.0004
#2	.0007	.0003	.0001	.0003	.0004	-.0000	.0003	.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	.0001	.0004	.0000	.0002	.0004	.0010	.0005	.0008	.0098
Stddev	.0002	.0001	.0001	.0002	.0002	.0008	.0002	.0020	.0006
%RSD	335.3	26.55	159.7	138.5	48.69	85.84	28.82	240.8	6.058
#1	-.0001	.0005	-.0000	.0003	-.0003	-.0016	.0006	.0022	.0102
#2	.0002	.0003	.0001	.0000	-.0005	-.0004	.0004	-.0006	.0094

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	.0112	.0099	.0220	.0026	.0015	.0017	.0003	.0084	.0005
Stddev	.0007	.0229	.0027	.0049	.0001	.0005	.0010	.0004	.0004
%RSD	6.024	231.1	12.08	192.1	7.892	27.09	344.7	5.080	89.10
#1	.0107	.0261	.0238	-.0009	.0014	.0020	-.0010	.0081	.0008
#2	.0117	-.0063	.0201	.0060	.0016	.0014	.0004	.0087	.0002

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: 7/2/2014 6:02:18 Type: QC
Method: Accutest1(v35) 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	.0067	.0009	.0009	.0021	.0010
Stddev	.0001	.0002	.0008	.0000	.0008	.0015	.0006
%RSD	37.27	35.05	12.28	5.226	87.05	69.50	65.91
#1	.0004	.0006	.0073	.0009	.0003	.0032	-.0014
#2	.0002	.0003	.0061	.0009	.0014	.0011	-.0005

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	70314.	9705.5	2429.7	3702.8
Stddev	595.	17.8	2.4	4.9
%RSD	.84561	.18317	.09786	.13170
#1	69893.	9718.0	2431.4	3706.3
#2	70734.	9692.9	2428.1	3699.4

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Sample Name: jb70536-13 Acquired: 7/2/2014 6:08:25 Type: Unk
Method: Accutest1(v35) 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	.7187	.0041	.0034	.0430	.1934	.2741	2.178	.1560	.0028
Stddev	.0001	.0002	.0001	.0005	.0010	.0011	.004	.0016	.0003
%RSD	.0130	5.195	3.088	1.157	.5116	.4125	.1654	1.033	10.07
#1	.7187	.0042	.0033	.0427	.1927	.2749	2.180	.1549	.0026
#2	.7186	.0039	.0035	.0434	.1941	.2733	2.175	.1571	.0030

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.2212	.7959	.0426	.0016	.8393	.0046	.0001	57.80	205.1
Stddev	.0002	.0071	.0009	.0006	.0083	.0023	.0010	.11	.9
%RSD	.0868	.8882	2.074	35.07	.9919	49.42	1378.	.1823	.4526
#1	.2213	.7909	.0420	.0020	.8335	.0030	-.0006	57.73	204.5
#2	.2211	.8009	.0432	.0012	.8452	.0062	.0008	57.88	205.8

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	102.8	32.12	11.21	1.172	.0472	.0087	-.0121	3.877	.0416
Stddev	.2	.13	.01	.003	.0002	.0001	.0000	.015	.0001
%RSD	.2408	.4039	.1295	.2604	.4518	1.308	.0332	.3852	.2004
#1	102.7	32.03	11.23	1.174	.0470	.0086	-.0121	3.867	.0415
#2	103.0	32.21	11.20	1.170	.0473	.0088	-.0121	3.888	.0416

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Avg	.7041	2.825	-.0186	.0416	9.832	.0151	.0755
Stddev	.0002	.016	.0004	.0005	.048	.0007	.0006
%RSD	.0297	.5571	2.347	1.188	.4856	4.315	.8444
#1	.7040	2.836	-.0183	.0419	9.798	.0146	.0760
#2	.7043	2.814	-.0189	.0412	9.866	.0155	.0751

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	66941.	9957.0	2280.4	3149.9
Stddev	15.	104.1	18.5	28.0
%RSD	.02305	1.0458	.81146	.89014
#1	66952.	10031.	2293.5	3169.7
#2	66930.	9883.3	2267.3	3130.1

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Sample Name: jb70540-1 Acquired: 7/2/2014 6:14:23 Type: Unk
Method: Accutest1(v35) 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	.3285	.0046	.0007	.0354	.2492	.8066	2.454	.1544	.0060
Stddev	.0010	.0000	.0001	.0000	.0017	.0063	.005	.0006	.0002
%RSD	.3149	.7067	12.04	.0322	.6795	.7771	.1976	.3789	3.808
#1	.3277	.0047	.0007	.0354	.2480	.8021	2.457	.1540	.0058
#2	.3292	.0046	.0006	.0354	.2504	.8110	2.450	.1548	.0062

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.1491	.6508	.0352	-.0178	.0248	.0026	.0004	75.56	959.7
Stddev	.0003	.0018	.0002	.0013	.0016	.0025	.0003	.23	2.8
%RSD	.1733	.2707	.6689	7.375	6.392	98.85	92.70	.3023	.2867
#1	.1489	.6495	.0350	-.0188	.0237	.0044	.0006	75.40	961.7
#2	.1492	.6520	.0354	-.0169	.0260	.0008	.0001	75.72	957.8

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	138.3	48.13	5.583	5.162	1.756	.0277	-.0209	1.815	.0375
Stddev	.4	.09	.003	.020	.0010	.0001	.0022	.008	.0002
%RSD	.2643	.1787	.0457	.3946	.5733	.3378	10.76	.4257	.5122
#1	138.1	48.07	5.585	5.148	.1749	.0278	-.0225	1.809	.0376
#2	138.6	48.19	5.581	5.177	.1763	.0277	-.0193	1.820	.0374

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Avg	4.355	4.175	-.1168	.1208	26.50	.0283	.0719
Stddev	.012	.006	.0007	.0004	.05	.0014	.0008
%RSD	.2674	.1349	.6341	.2910	.2069	4.797	1.174
#1	4.346	4.179	-.1173	.1205	26.46	.0274	.0725
#2	4.363	4.171	-.1162	.1210	26.54	.0293	.0713

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	61254.	9491.6	2092.3	2770.2
Stddev	38.	2.8	9.2	11.0
%RSD	.06144	.02940	.44002	.39813
#1	61227.	9493.5	2098.8	2778.0
#2	61280.	9489.6	2085.8	2762.4

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Sample Name: jb70549-1 Acquired: 7/2/2014 6:20:27 Type: Unk
 Method: Accutest1(v35) 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	.9070	.0066	.0038	.0710	.2642	.2622	2.716	.1612	.0005
Stddev	.0083	.0001	.0000	.0003	.0007	.0024	.009	.0004	.0004
%RSD	.9176	1.240	1.264	.4284	.2599	.9341	.3369	.2646	90.47
#1	.9129	.0066	.0038	.0708	.2637	.2605	2.710	.1609	.0008
#2	.9011	.0065	.0037	.0712	.2647	.2639	2.723	.1615	.0002
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.3503	1.273	.0508	.0057	1.090	.0019	.0004	108.1	127.4
Stddev	.0022	.005	.0010	.0003	.006	.0001	.0000	.8	.7
%RSD	.6148	.3710	1.944	4.791	.5485	3.890	11.17	.7717	.5476
#1	.3488	1.270	.0515	.0059	1.085	.0019	.0004	108.7	127.9
#2	.3518	1.276	.0501	.0055	1.094	.0018	.0005	107.5	126.9
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	164.3	66.77	12.47	.6591	.0304	.0075	-.0227	3.257	-.1264
Stddev	1.2	.38	.05	.0004	.0004	.0001	.0004	.002	.0004
%RSD	.7247	.5677	.3897	.0642	1.168	1.401	1.952	.0718	.3288
#1	165.1	67.04	12.51	.6588	.0306	.0075	-.0224	3.259	.1261
#2	163.5	66.51	12.44	.6594	.0301	.0076	-.0230	3.256	.1267
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.3405	4.583	-.0077	.0641	1.382	.0188	.1076		
Stddev	.0033	.017	.0015	.0000	.005	.0001	.0006		
%RSD	.9636	.3777	19.85	.0323	.3890	.6098	.5258		
#1	.3428	4.571	-.0088	.0641	1.378	.0189	.1080		
#2	.3381	4.595	-.0066	.0641	1.385	.0188	.1072		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	68008.	10209.	2312.8	3184.3					
Stddev	115.	24.	8.2	9.3					
%RSD	.16865	.23098	.35305	.29257					
#1	68089.	10193.	2318.6	3190.9					
#2	67927.	10226.	2307.0	3177.7					

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Sample Name: jb70550-1 Acquired: 7/2/2014 6:32:21 Type: Unk
 Method: Accutest1(v35) 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	.8374	.0089	.0019	.0655	.1930	.2839	2.404	.1208	.0009
Stddev	.0009	.0001	.0000	.0001	.0002	.0017	.006	.0002	.0002
%RSD	.1048	.9142	.5204	.1256	.0877	.6111	.2565	.1769	26.53
#1	.8368	.0089	.0019	.0654	.1931	.2827	2.409	.1206	.0008
#2	.8380	.0088	.0019	.0655	.1929	.2852	2.400	.1209	.0011
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.2970	.7599	.0638	.0081	.5926	.0046	.0008	140.0	26.24
Stddev	.0004	.0026	.0009	.0002	.0021	.0010	.0016	.1	.04
%RSD	.1265	.3409	1.444	2.059	.3567	22.25	202.9	.0521	.1472
#1	.2968	.7580	.0631	.0082	.5911	.0054	-.0003	140.1	26.27
#2	.2973	.7617	.0644	.0080	.5941	.0039	.0019	140.0	26.21
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	147.0	27.56	16.15	.7803	.0344	.0066	-.0199	2.639	.0341
Stddev	.2	.05	.07	.0120	.0005	.0000	.0002	.005	.0003
%RSD	.1250	.1964	.4464	1.541	1.457	.3599	.9847	.2073	.7765
#1	147.1	27.59	16.20	.7888	.0340	.0066	-.0200	2.635	.0343
#2	146.9	27.52	16.10	.7718	.0347	.0067	-.0198	2.643	.0339
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.1272	3.773	-.0026	.0255	1.279	.0126	.1274		
Stddev	.0001	.009	.0004	.0007	.008	.0021	.0000		
%RSD	.0393	.2501	15.80	2.698	.6175	16.89	.0211		
#1	.1271	3.780	.0023	.0259	1.273	.0111	.1274		
#2	.1272	3.766	.0029	.0250	1.284	.0141	.1274		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	71409.	10488.	2484.7	3333.8					
Stddev	42.	34.	5.0	4.5					
%RSD	.05854	.32521	.20276	.13545					
#1	71379.	10464.	2488.3	3337.0					
#2	71438.	10512.	2481.1	3330.6					

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Sample Name: jb70549-2 Acquired: 7/2/2014 6:26:24 Type: Unk
 Method: Accutest1(v35) 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	.3971	.0068	.0013	.0596	.1981	.1525	2.328	.1278	-.0002
Stddev	.0008	.0001	.0000	.0002	.0011	.0004	.006	.0000	.0005
%RSD	.2052	1.432	3.029	.4188	.5757	.2869	.2385	.0267	237.7
#1	.3966	.0067	.0012	.0595	.1973	.1522	2.324	.1278	-.0006
#2	.3977	.0068	.0013	.0598	.1989	.1528	2.332	.1279	.0001
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.2701	.5071	.0497	.0069	.3951	.0035	-.0014	110.1	15.15
Stddev	.0011	.0007	.0014	.0017	.0017	.0012	.0003	.0	.03
%RSD	.4076	.1453	2.845	24.65	.4229	33.58	17.93	.0395	.2166
#1	.2693	.5066	.0487	.0057	.3939	.0043	-.0016	110.1	15.17
#2	.2709	.5076	.0507	.0081	.3962	.0026	-.0012	110.2	15.12
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	163.8	21.05	8.681	.3782	.0339	.0063	-.0179	3.498	.0556
Stddev	.2	.00	.002	.0090	.0002	.0001	.0024	.001	.0005
%RSD	.1083	.0196	.0231	2.376	.6090	.8576	13.30	.0254	.9043
#1	163.9	21.05	8.682	.3718	.0338	.0062	-.0195	3.498	.0560
#2	163.6	21.05	8.679	.3845	.0341	.0063	-.0162	3.499	.0553
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0688	3.533	.0046	.0552	.8173	.0144	.0958		
Stddev	.0000	.000	.0003	.0003	.0014	.0007	.0010		
%RSD	.0054	.0094	6.984	.5700	.1661	4.695	1.010		
#1	.0688	3.533	.0044	.0550	.8163	.0149	.0951		
#2	.0689	3.533	.0048	.0555	.8183	.0139	.0965		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	70672.	10304.	2445.1	3387.4					
Stddev	308.	20.	1.6	3.2					
%RSD	.43601	.19557	.06591	.09579					
#1	70890.	10318.	2446.3	3389.7					
#2	70454.	10290.	2444.0	3385.1					

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[Zoom In](#)
[Zoom Out](#)

Sample Name: jb70528-1a Acquired: 7/2/2014 6:38:17 Type: Unk
 Method: Accutest1(v35) 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	.3075	.0039	.0028	.1088	.1754	.7412	2.421	.1649	-.0018
Stddev	.0012	.0001	.0001	.0002	.0002	.0015	.001	.0003	.0004
%RSD	.3932	1.458	3.794	.1846	.1091	.1987	.0443	.2036	22.47
#1	.3084	.0039	.0028	.1087	.1752	.7401	2.420	.1647	-.0015
#2	.3067	.0039	.0027	.1090	.1755	.7422	2.421	.1651	-.0020
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.4412	2.768	.1221	.0069	.6805	.0019	.0063	65.92	26.88
Stddev	.0007	.005	.0004	.0006	.0023	.0004	.0009	.09	.11
%RSD	.1652	.1887	.3568	9.087	.3431	20.95	13.95	.1420	.4199
#1	.4407	2.765	.1224	.0074	.6788	.0016	.0056	65.99	26.96
#2	.4417	2.772	.1218	.0065	.6821	.0022	.0069	65.86	26.80
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	244.9	50.76	4.219	2.246	.0789	.0075	-.0305	1.979	.0674
Stddev	.7	.09	.000	.003	.0007	.0001	.0001	.001	.0001
%RSD	.3058	.1676	.0089	.1366	.8343	1.983	.4810	.0437	.0897
#1	245.4	50.70	4.219	2.248	.0793	.0074	-.0306	1.978	.0674
#2	244.4	50.82	4.219	2.244	.0784	.0076	-.0304	1.979	.0675
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.1146	4.174	-.0039	.0220	1.735	.0279	.0706		
Stddev	.0002	.001	.0006	.0004	.006	.0019	.0001		
%RSD	.2167	.0309	15.69	1.950	.3651	6.773	.1346		
#1	.1144	4.174	.0035	.0223	1.740	.0266	.0707		
#2	.1147	4.173	.0043	.0217	1.731	.0293	.0706		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	68819.	10123.	2347.2	3363.3					
Stddev	100.	19.	2.2	3.2					
%RSD	.14590	.18608	.09214	.09657					
#1	68890.	10136.	2345.7	3361.0					
#2	68748.	10109.	2348.8	3365.6					

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Sample Name: ccv Acquired: 7/2/2014 6:44:14 Type: QC
Method: Accutest1(v35) 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	1.941	1.928	1.962	1.993	1.993	1.895	1.995	2.004	2.400
Stddev	.001	.007	.008	.003	.001	.019	.005	.002	.0022
%RSD	.0548	.3425	.4016	.1471	.0466	.9811	.2631	.1116	.9349
#1	1.940	1.933	1.967	1.995	1.994	1.882	1.998	2.006	2.384
#2	1.942	1.924	1.956	1.990	1.992	1.908	1.991	2.003	2.416

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	1.967	1.960	1.928	2.075	2.035	1.944	1.968	38.91	38.72
Stddev	.001	.003	.008	.004	.000	.005	.007	.12	.14
%RSD	.0523	.1582	.3994	.1688	.0132	.2354	.3676	.3122	.3490
#1	1.968	1.963	1.933	2.078	2.035	1.947	1.973	39.00	38.81
#2	1.967	1.958	1.922	2.073	2.035	1.941	1.963	38.83	38.62

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	38.17	38.07	39.21	39.53	1.962	1.980	1.971	5.006	2.016
Stddev	.13	.17	.02	.00	.008	.005	.018	.017	.003
%RSD	.3335	.4532	.0436	.0040	.4126	.2801	.9149	.3430	.1628
#1	38.26	38.19	39.23	39.53	1.968	1.984	1.959	5.018	2.018
#2	38.08	37.95	39.20	39.53	1.956	1.976	1.984	4.994	2.013

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: 7/2/2014 6:44:14 Type: QC
Method: Accutest1(v35) 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	1.952	1.962	1.892	1.970	1.916	1.990	1.963
Stddev	.000	.006	.001	.001	.007	.010	.007
%RSD	.0218	.3137	.0751	.0518	.3538	.4817	.3344
#1	1.952	1.966	1.893	1.969	1.921	1.997	1.958
#2	1.951	1.957	1.891	1.971	1.911	1.983	1.967

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	66241.	9562.2	2295.8	3266.4
Stddev	83.	54.2	12.6	14.0
%RSD	.12543	.56631	.55017	.42736
#1	66182.	9523.9	2286.9	3256.5
#2	66300.	9600.5	2304.7	3276.3

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Sample Name: ccb Acquired: 7/2/2014 6:50:05 Type: QC
Method: Accutest1(v35) 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	.0006	.0003	.0001	.0003	.0003	.0001	.0005	.0005	-.0001
Stddev	.0000	.0001	.0001	.0002	.0000	.0001	.0000	.0000	.0004
%RSD	2.421	41.03	70.63	74.12	1.309	178.1	4.401	1.428	406.9
#1	.0006	.0002	.0002	.0005	.0003	-.0000	.0004	.0005	.0002
#2	.0006	.0004	.0001	.0001	.0003	.0001	.0005	.0005	-.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	-.0000	.0005	.0006	.0011	.0006	-.0021	.0009	-.0026	.0102
Stddev	.0004	.0000	.0009	.0017	.0005	.0009	.0005	.0097	.0010
%RSD	909.5	4.554	151.2	151.3	83.35	40.43	48.39	371.5	10.09
#1	.0002	.0005	.0012	.0023	.0010	-.0027	.0013	.0042	.0095
#2	-.0003	.0005	-.0000	-.0001	.0003	-.0015	.0006	-.0094	.0109

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	.0179	.0085	.0362	-.0008	.0015	.0018	-.0003	.0085	.0004
Stddev	.0018	.0123	.0274	.0008	.0007	.0003	.0010	.0003	.0008
%RSD	9.989	145.0	75.80	105.6	43.28	18.16	387.3	3.661	171.7
#1	.0192	-.0002	.0556	-.0002	.0020	.0021	-.0010	.0082	.0010
#2	.0166	.0171	.0168	-.0013	.0011	.0016	.0005	.0087	-.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: 7/2/2014 6:50:05 Type: QC
Method: Accutest1(v35) 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	.0008	.0080	.0010	.0007	.0018	-.0000
Stddev	.0001	.0003	.0011	.0000	.0006	.0008	.0002
%RSD	22.81	40.56	13.68	5.129	85.82	41.52	623.7
#1	.0002	.0010	.0088	.0010	.0003	.0024	.0001
#2	.0003	.0005	.0073	.0009	.0011	.0013	-.0002

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	69938.	9723.7	2432.4	3716.7
Stddev	62.	.7	4.1	4
%RSD	.08922	.00677	.16942	.00957
#1	69982.	9723.3	2435.3	3716.4
#2	69894.	9724.2	2429.5	3716.9

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Sample Name: cri Acquired: 7/2/2014 6:56:11 Type: QC
Method: Accutest1(v35) 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	.1960	.0021	.0031	.0510	.0111	.0093	.0158	.0102	.0046
Stddev	.0006	.0001	.0000	.0004	.0000	.0004	.0000	.0001	.0001
%RSD	.3208	2.872	.0692	.8609	.4441	4.657	.2749	.8885	2.269
#1	.1964	.0021	.0031	.0507	.0112	.0090	.0158	.0101	.0047
#2	.1956	.0022	.0031	.0513	.0111	.0096	.0159	.0102	.0046

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	.0527	.0220	.0088	.0130	.0036	.0117	.0067	.1967	4.907
Stddev	.0002	.0001	.0011	.0007	.0001	.0006	.0004	.0012	.016
%RSD	.3336	.5386	12.25	5.250	2.695	5.344	6.104	.5877	.3209
#1	.0526	.0219	.0080	.0135	.0037	.0121	.0070	.1976	4.896
#2	.0529	.0221	.0096	.0125	.0036	.0112	.0064	.1959	4.918

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	.1039	4.815	4.900	4.893	.1003	.0205	.0536	.2086	.0102
Stddev	.0014	.007	.008	.020	.0008	.0003	.0007	.0020	.0003
%RSD	1.314	.1506	.1553	.4085	.8249	1.228	1.236	.9625	2.673
#1	.1029	4.810	4.894	4.907	.1009	.0207	.0541	.2100	.0103
#2	.1049	4.820	4.905	4.879	.0997	.0203	.0532	.2072	.0100

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: 7/2/2014 7:02:13 Type: QC
Method: Accutest1(v35) 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	.0010	.0031	.0023	F .0011	.0030	.0041
Stddev	.0000	.0001	.0001	.0000	.0000	.0001	.0001	.0000
%RSD	1.131	5.611	11.05	.6000	.3020	12.34	1.878	.3476
#1	.0040	.0009	.0009	.0032	.0023	.0012	.0031	.0041
#2	.0041	.0010	.0011	.0031	.0023	.0010	.0030	.0041

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Fail Chk Pass Chk Pass
Value
Range
-30.00%

Elem	Ag3280	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007	.0017	.0114	.0029	.0018	.0025	F .0019	.0036
Stddev	.0002	.0003	.0001	.0000	.0004	.0002	.0051	.0000
%RSD	31.93	16.04	1.229	1.519	22.78	5.962	269.1	.2013
#1	.0006	.0018	.0113	.0029	.0021	.0026	.0055	.0036
#2	.0009	.0015	.0115	.0028	.0015	.0024	.0017	.0036

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Fail Chk Pass
Value
Range
-30.00%

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0893	.9955	.0024	.1132	1.963	.9782	.0097	.0004
Stddev	.0032	.0035	.0002	.0077	.004	.0007	.0000	.0000
%RSD	3.575	.3533	8.909	6.795	.1845	.0756	.2361	11.57
#1	.0915	.9930	.0022	.1186	1.960	.9788	.0097	.0004
#2	.0870	.9980	.0025	.1078	1.965	.9777	.0097	.0004

Check ? Chk Pass Chk Pass None Chk Pass Chk Pass Chk Pass Chk Pass None
Value
Range

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Sample Name: cri Acquired: 7/2/2014 6:56:11 Type: QC
Method: Accutest1(v35) 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	.0103	.0107	.0588	.0124	.0465	.0215	.0189
Stddev	.0001	.0004	.0002	.0001	.0005	.0009	.0000
%RSD	.6630	3.873	.2910	.9253	.9783	4.418	.1112
#1	.0103	.0110	.0587	.0123	.0468	.0221	.0189
#2	.0102	.0104	.0590	.0124	.0462	.0208	.0189

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	69291.	9686.6	2395.0	3623.4
Stddev	269.	14.1	3.3	6.3
%RSD	.38795	.14537	.13785	.17252
#1	69481.	9696.5	2392.6	3627.9
#2	69101.	9676.6	2397.3	3619.0

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Sample Name: crid Acquired: 7/2/2014 7:02:13 Type: QC
Method: Accutest1(v35) 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	-.0016	.0034	-.0001	-.0001	.0005	.0033	F .0004	F -.0010
Stddev	.0007	.0007	.0000	.0000	.0004	.0001	.0000	.0016
%RSD	40.11	22.04	4.002	21.01	91.59	2.576	4.562	161.6
#1	-.0021	.0029	-.0001	-.0001	.0008	.0032	.0004	-.0022
#2	-.0012	.0039	-.0001	-.0001	.0002	.0034	.0004	.0001

Check ? None None None None None Chk Pass Chk Fail Chk Fail
Value
Range
-30.00%

Elem	Bi2230	Li6707
Units	ppm	ppm
Avg	F .0008	F .0008
Stddev	.0003	.0004
%RSD	35.84	51.52
#1	.0006	-.0011
#2	.0010	-.0005

Check ? Chk Fail Chk Fail
Value
Range
-30.00%

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	72095.	9672.8	2422.6	3691.7
Stddev	1920.	47.9	2.0	10.4
%RSD	2.6630	.49532	.08177	.28058
#1	70737.	9706.6	2424.0	3699.1
#2	73453.	9638.9	2421.2	3684.4

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Sample Name: cria Acquired: 7/2/2014 7:08:20 Type: QC
Method: Accutest1(v35) 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	-0.0000	-0.0002	-0.0002	.0001	-0.0004	.0000	.0003	-0.0003
Stddev	.0002	.0000	.0001	.0000	.0001	.0001	.0000	.0003	.0005
%RSD	82.22	521.1	51.95	8.282	62.15	32.01	24.62	101.9	165.9

#1	.0004	.0000	-0.0001	.0003	.0001	-0.0003	.0000	.0001	.0001
#2	.0001	-0.0000	-0.0002	.0002	.0000	-0.0005	.0000	.0005	-0.0007

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	-0.0002	.0008	.0201	-0.0006	.0207	.0204	.0193	.4683	.0040
Stddev	.0001	.0001	.0005	.0006	.0017	.0001	.0004	.0179	.0008
%RSD	72.28	17.70	2.399	104.7	8.274	.6243	2.141	3.815	19.95

#1	-0.0003	.0007	.0197	-0.0001	.0195	.0205	.0190	.4557	.0034
#2	-0.0001	.0009	.0204	-0.0010	.0219	.0203	.0196	.4810	.0045

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	.4951	-0.0106	.0111	-0.0057	.0004	.0000	.0000	.0027	-0.0003
Stddev	.0021	.0294	.0029	.0020	.0003	.0002	.0007	.0004	.0000
%RSD	.4252	276.4	26.36	34.89	86.81	776.5	2684.	13.58	.2937

#1	.4936	-.0314	.0090	-.0043	.0001	.0002	-.0005	.0024	-.0003
#2	.4966	.0102	.0132	-.0071	.0006	-.0001	.0005	.0029	-.0003

Check ? Value Range
Chk Pass None None None None None None None None

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Sample Name: cria Acquired: 7/2/2014 7:08:20 Type: QC
Method: Accutest1(v35) 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	-0.0000	.0003	.0010	.0003	.0008	.0013	-0.0005
Stddev	.0000	.0003	.0001	.0001	.0015	.0009	.0002
%RSD	169.5	101.3	9.559	32.25	187.7	69.46	51.16

#1	-0.0000	.0001	.0011	.0004	.0018	.0006	-0.0006
#2	.0000	.0005	.0010	.0002	-.0003	.0019	-.0003

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	69965.	9728.6	2429.5	3708.6
Stddev	236.	8.7	2.2	8.3
%RSD	.33738	.08987	.08950	.22324

#1	69798.	9722.4	2431.0	3714.4
#2	70132.	9734.7	2427.9	3702.7

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Sample Name: ccv Acquired: 7/2/2014 7:14:27 Type: QC
Method: Accutest1(v35) 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	1.938	1.932	1.967	2.004	1.993	1.893	1.994	2.017	2.391
Stddev	.004	.004	.000	.003	.007	.005	.004	.004	.0007
%RSD	.1948	.1832	.0160	.1444	.3704	.2707	.1911	.1935	.3033

#1	1.941	1.935	1.967	2.002	1.987	1.890	1.991	2.015	2.386
#2	1.935	1.930	1.967	2.006	1.998	1.897	1.997	2.020	2.396

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	1.967	1.981	1.933	2.086	2.049	1.953	1.970	38.91	38.96
Stddev	.004	.002	.000	.000	.001	.004	.001	.05	.04
%RSD	.2110	.1043	.0080	.0005	.0281	.1985	.0272	.1219	.0906

#1	1.965	1.979	1.933	2.086	2.049	1.950	1.971	38.94	38.99
#2	1.970	1.982	1.933	2.086	2.049	1.956	1.970	38.87	38.94

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	38.33	38.22	39.05	39.22	1.967	1.983	1.963	5.008	2.025
Stddev	.05	.02	.03	.03	.001	.003	.004	.003	.003
%RSD	.1431	.0634	.0671	.0641	.0441	.1422	.1906	.0676	.1217

#1	38.37	38.20	39.07	39.23	1.967	1.981	1.960	5.006	2.027
#2	38.29	38.23	39.03	39.20	1.966	1.985	1.965	5.011	2.023

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: 7/2/2014 7:14:27 Type: QC
Method: Accutest1(v35) 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	1.951	1.957	1.897	1.968	1.925	1.986	1.939
Stddev	.004	.001	.003	.004	.007	.002	.003
%RSD	.2204	.0440	.1784	.1810	.3462	.0899	.1521

#1	1.954	1.956	1.895	1.966	1.930	1.985	1.937
#2	1.948	1.958	1.900	1.971	1.921	1.987	1.941

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	66585.	9503.0	2298.9	3267.3
Stddev	28.	14.5	4.7	9.4
%RSD	.04203	.15209	.20340	.28643

#1	66565.	9492.8	2302.2	3274.0
#2	66605.	9513.2	2295.6	3260.7

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Sample Name: ccb Acquired: 7/2/2014 7:20:17 Type: QC
Method: Accutest1(v35) 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	.0004	.0002	.0004	.0001	-.0002	.0004	.0005	.0004
Stddev	.0002	.0000	.0000	.0001	.0003	.0001	.0000	.0001	.0003
%RSD	30.08	12.26	14.62	16.52	372.2	79.14	.1097	24.96	90.54
#1	.0004	.0003	.0003	.0005	.0003	-.0001	.0004	.0004	.0001
#2	.0006	.0004	.0002	.0004	-.0001	-.0002	.0004	.0006	.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	.0002	.0003	.0005	.0006	.0007	-.0007	.0006	.0001	.0069
Stddev	.0001	.0000	.0007	.0006	.0001	.0006	.0001	.0051	.0026
%RSD	68.52	8.032	144.7	93.07	10.89	83.20	15.15	9277.	37.38
#1	.0003	.0004	.0009	.0002	.0006	-.0011	.0007	.0037	.0087
#2	.0001	.0003	-.0000	.0010	.0007	-.0003	.0005	-.0036	.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	.0099	-.0023	.0492	-.0028	.0018	.0018	.0000	.0071	.0007
Stddev	.0041	.0252	.0129	.0044	.0003	.0003	.0011	.0000	.0002
%RSD	41.84	1114.	26.20	157.1	17.10	15.89	4423.	.2090	26.92
#1	.0070	.0156	.0583	-.0059	.0016	.0020	-.0008	.0071	.0008
#2	.0128	-.0201	.0401	.0003	.0020	.0016	.0008	.0071	.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: 7/2/2014 7:20:17 Type: QC
Method: Accutest1(v35) 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	.0004	.0099	.0009	.0006	.0034	-.0002
Stddev	.0000	.0000	.0004	.0000	.0009	.0011	.0007
%RSD	4.941	6.094	3.749	5.366	148.9	31.81	344.8
#1	.0004	.0004	.0101	.0009	.0013	.0027	.0003
#2	.0004	.0004	.0096	.0008	-.0000	.0042	-.0007

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	69571.	9660.2	2429.2	3705.5
Stddev	432.	54.5	2.3	5.8
%RSD	.62123	.56430	.09594	.15699
#1	69265.	9698.8	2430.9	3709.6
#2	69876.	9621.7	2427.6	3701.4

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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	0.000002	0.000000	No
			Zr	0.001380	0.000000	No
Be 313.042 {108}	☒	13	V	0.000297	0.000000	No
			Mo	-0.000027	0.000000	No
			Ti	-0.000701	0.000000	No
			Mn	-0.000010	0.000000	No
			Ba	0.000038	0.000000	No
			Co	-0.000065	0.000000	No
			Ni	0.000000	0.000000	No
			Ca	-0.000000	0.000000	No
			Cu	0.000014	0.000000	No
			Zn	-0.000010	0.000000	No
			Fe	-0.000003	0.000000	No
			Cr	-0.000020	0.000000	No
			W	0.000000	0.000000	No
Cd 228.802 {448}	☒	14	As	0.007800	0.000000	No
			Ni	-0.000233	0.000000	No
			Fe	-0.000002	0.000000	No
			V	0.000091	0.000000	No
			Ba	-0.000047	0.000000	No
			Co	-0.001503	0.000000	No
			Sr	-0.000020	0.000000	No
			Ca	-0.000000	0.000000	No
			Mn	0.000010	0.000000	No
			Cr	0.000025	0.000000	No
			Si	-0.000005	0.000000	No
			Cu	-0.000026	0.000000	No
			W	0.000000	0.000000	No
			Al	-0.000002	0.000000	No
Co 228.616 {448}	☒	10	Fe	0.000032	0.000000	No
			Cr	-0.000049	0.000000	No
			Mo	-0.001939	0.000000	No
			Ni	0.000256	0.000000	No
			Ti	0.001812	0.000000	No
			Ba	-0.000371	0.000000	No
			W	-0.001840	0.000000	No
			Cd	-0.000510	0.000000	No
			Si	0.000000	0.000000	No
			Ca	-0.000003	0.000000	No
			Mn	0.000202	0.000000	No
			V	-0.000022	0.000000	No
Cr 267.716 {126}	☒	14	Mo	0.000018	0.000000	No
			Fe	-0.000008	0.000000	No
			W	0.000253	0.000000	No
			Cd	-0.000050	0.000000	No
			Al	-0.000002	0.000000	No
			Ca	0.000002	0.000000	No
			Mg	0.000003	0.000000	No
			Ti	0.000100	0.000000	No
			Sn	0.000000	0.000000	No
			Ba	0.000045	0.000000	No
			Cu	0.000100	0.000000	No
			Sr	-0.000100	0.000000	No
Cu 324.754 {104}2	☒	20	Cr	-0.000200	0.000000	No
			V	-0.000233	0.000000	No
			Mo	0.000556	0.000000	No

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
			Ti	-0.000082	0.000000	No
			Fe	-0.000070	0.000000	No
			Al	0.000006	0.000000	No
			Sn	-0.000097	0.000000	No
			Zn	-0.000004	0.000000	No
			Co	-0.000427	0.000000	No
			Zr	0.000000	0.000000	No
			Si	0.000080	0.000000	No
			Mn	-0.000080	0.000000	No
			Se	0.000050	0.000000	No
			Ba	-0.000000	0.000000	No
			Ag	-0.000077	0.000000	No
			Pb	0.000300	0.000000	No
			Sb	0.000370	0.000000	No
			Mg	-0.000002	0.000000	No
			Ca	-0.000001	0.000000	No
			W	0.000000	0.000000	No
Mn 257.610 {131}	☒	7	Fe	-0.000074	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
			Al	-0.000001	0.000000	No
			Ni	0.000028	0.000000	No
Ni 231.604 {446}	☒	17	Fe	0.000014	0.000000	No
			Zn	0.000079	0.000000	No
			Be	0.000213	0.000000	No
			Co	-0.000525	0.000000	No
			Ti	0.000209	0.000000	No
			Mg	0.000002	0.000000	No
			Mo	-0.000374	0.000000	No
			V	-0.000032	0.000000	No
			Cu	0.000050	0.000000	No
			Se	0.000100	0.000000	No
			Al	-0.000002	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	0.000001	0.000000	No
			W	0.000000	0.000000	No
Ag 328.068 {103}	☒	14	Mn	0.000051	0.000000	No
			Mo	-0.000147	0.000000	No
			Ti	-0.001500	0.000000	No
			Fe	-0.000375	0.000000	No
			V	-0.000472	0.000000	No
			Zn	-0.000104	0.000000	No
			W	0.000000	0.000000	No
			Ca	-0.000008	0.000000	No
			Zr	0.007000	0.000000	No
			Al	-0.000002	0.000000	No
			Sr	-0.000200	0.000000	No
			Mg	0.000000	0.000000	No
			Ba	-0.000056	0.000000	No
			Cr	0.000010	0.000000	No
V 292.402 {115}	☒	6	Ti	0.000530	0.000000	No
			Mo	-0.013500	0.000000	No

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
			Fe	-0.000004	0.000000	No
			Sr	-0.000100	0.000000	No
			Cr	-0.003605	0.000000	No
			Mn	-0.000900	0.000000	No
Zn 206.200 {464}	☒	17	Cr	-0.000710	0.000000	No
			Mo	-0.000300	0.000000	No
			Fe	-0.000010	0.000000	No
			Al	0.000005	0.000000	No
			Si	-0.000035	0.000000	No
			Mn	-0.000045	0.000000	No
			Ba	-0.000060	0.000000	No
			Na	0.000003	0.000000	No
			Ca	0.000000	0.000000	No
			Sr	-0.000033	0.000000	No
			Sn	0.000255	0.000000	No
			Cu	0.000056	0.000000	No
			As	0.000500	0.000000	No
			Be	0.000364	0.000000	No
			Pd	-0.000008	0.000000	No
			Bi	-0.001400	0.000000	No
			W	0.000000	0.000000	No
As 189.042 {478}	☒	24	Al	0.000002	0.000000	No
			Fe	-0.000011	0.000000	No
			Ca	0.000000	0.000000	No
			Mn	-0.000105	0.000000	No
			Mo	0.002000	0.000000	No
			Cr	-0.000433	0.000000	No
			V	0.000070	0.000000	No
			Co	-0.000164	0.000000	No
			Ba	-0.000067	0.000000	No
			Sn	-0.000037	0.000000	No
			Cd	-0.000228	0.000000	No
			Tl	0.000000	0.000000	No
			Be	-0.000007	0.000000	No
			Mg	0.000000	0.000000	No
			Si	-0.000135	0.000000	No
			Zn	0.000020	0.000000	No
			Sr	-0.000054	0.000000	No
			Pd	0.025218	0.000000	No
			Zr	0.002316	0.000000	No
			Ti	-0.000100	0.000000	No
			S	-0.000005	0.000000	No
			W	0.010000	0.000000	No
			K	0.000000	0.000000	No
			Na	0.000000	0.000000	No
Tl 190.856 {477}	☒	27	Cr	0.000222	0.000000	No
			Mo	-0.008850	0.000000	No
			Al	-0.000002	0.000000	No
			Fe	-0.000110	0.000000	No
			V	-0.024064	0.000000	No
			Mn	0.001466	0.000000	No
			Si	0.000084	0.000000	No
			Ca	-0.000002	0.000000	No
			Ti	-0.002000	0.000000	No
			Mg	0.000000	0.000000	No
			Co	0.003209	0.000000	No
			Sr	0.004409	0.000000	No

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
			B	0.001000	0.000000	No
			Ba	-0.000106	0.000000	No
			Zn	0.000170	0.000000	No
			As	0.000077	0.000000	No
			W	0.000000	0.000000	No
			Ni	0.000064	0.000000	No
			Cu	0.000232	0.000000	No
			Zr	0.000067	0.000000	No
			Pd	0.000045	0.000000	No
			Pb	-0.000100	0.000000	No
			S	0.000010	0.000000	No
			Na	0.000000	0.000000	No
			K	-0.000250	0.000000	No
			Sn	-0.000083	0.000000	No
			Li	0.000100	0.000000	No
Pb 220.353 (453)	☒	23	Al	-0.000124	0.000000	No
			Fe	0.000036	0.000000	No
			Ca	-0.000000	0.000000	No
			Mn	-0.000023	0.000000	No
			Zn	-0.000386	0.000000	No
			Mo	-0.000700	0.000000	No
			Cu	0.000110	0.000000	No
			V	-0.000338	0.000000	No
			Co	0.000111	0.000000	No
			Ti	-0.000016	0.000000	No
			Si	0.000038	0.000000	No
			Ba	0.000020	0.000000	No
			Sb	-0.000200	0.000000	No
			K	0.000000	0.000000	No
			Sr	0.000117	0.000000	No
			W	0.006000	0.000000	No
			Mg	0.000009	0.000000	No
			Cd	-0.000018	0.000000	No
			Cr	-0.000138	0.000000	No
			Pd	0.000560	0.000000	No
			Zr	-0.000935	0.000000	No
			Ni	0.000300	0.000000	No
			S	-0.000015	0.000000	No
Se 196.090 (472)	☒	26	Al	-0.000001	0.000000	No
			Ca	0.000005	0.000000	No
			Mn	0.000151	0.000000	No
			Mo	0.000081	0.000000	No
			Fe	-0.000158	0.000000	No
			Co	0.000042	0.000000	No
			V	0.000110	0.000000	No
			Sr	-0.000108	0.000000	No
			Cu	-0.000007	0.000000	No
			W	0.060000	0.000000	No
			Si	-0.000353	0.000000	No
			Tl	0.000000	0.000000	No
			Be	-0.000143	0.000000	No
			Zn	-0.000450	0.000000	No
			B	-0.000175	0.000000	No
			Pd	-0.000223	0.000000	No
			Ti	-0.000359	0.000000	No
			Cd	0.000090	0.000000	No
			Zr	0.000000	0.000000	No

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
			Ba	0.000800	0.000000	No
			Mg	-0.000004	0.000000	No
			Pb	0.000154	0.000000	No
			Ni	-0.000250	0.000000	No
			Cr	0.000100	0.000000	No
			K	0.000000	0.000000	No
Sb 206.833 {463}	☒	17	Na	0.000000	0.000000	No
			Fe	0.000013	0.000000	No
			Al	-0.000001	0.000000	No
			Ca	-0.000001	0.000000	No
			Ni	-0.000686	0.000000	No
			Cr	0.014210	0.000000	No
			V	-0.002400	0.000000	No
			Zn	-0.000215	0.000000	No
			Mo	0.000500	0.000000	No
			Ti	0.000300	0.000000	No
			Sn	-0.016050	0.000000	No
			Mg	-0.000001	0.000000	No
			Zr	-0.001760	0.000000	No
			Sr	0.000031	0.000000	No
			Mn	-0.000075	0.000000	No
			S	0.000001	0.000000	No
			W	0.000000	0.000000	No
			B	0.000000	0.000000	No
Al 396.152 { 85}	☒	5	Si	-0.002348	0.000000	No
			Ca	-0.000172	0.000000	No
			Mo	0.034000	0.000000	No
			Zr	-0.000018	0.000000	No
			Ti	0.000419	0.000000	No
Ca 317.933 {106}	☒	16	Fe	0.000130	0.000000	No
			Ti	0.000000	0.000000	No
			W	0.003960	0.000000	No
			Tl	0.004950	0.000000	No
			Be	0.001840	0.000000	No
			Ba	0.003500	0.000000	No
			Cu	-0.001800	0.000000	No
			Cd	0.003700	0.000000	No
			Ni	0.006667	0.000000	No
			Pd	-0.000871	0.000000	No
			B	-0.000210	0.000000	No
			Se	0.000923	0.000000	No
			Co	0.003280	0.000000	No
			Cr	0.000640	0.000000	No
			Al	0.000026	0.000000	No
			As	0.010000	0.000000	No
Fe 259.940 {130}	☒	14	Co	0.000004	0.000000	No
			Si	-0.001181	0.000000	No
			Tl	-0.002602	0.000000	No
			Se	0.000000	0.000000	No
			Cr	-0.000566	0.000000	No
			Mn	0.000000	0.000000	No
			V	-0.000064	0.000000	No
			Cu	0.000953	0.000000	No
			K	0.000000	0.000000	No
			Zn	0.000046	0.000000	No
			Ti	-0.000631	0.000000	No
			Ca	0.000020	0.000000	No

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
			Ba	0.001000	0.000000	No
			Pd	-0.000714	0.000000	No
Mg 279.079 {121}	☒	3	Mo	-0.020250	0.000000	No
			W	-0.006578	0.000000	No
			Mn	-0.005360	0.000000	No
K 766.490 { 44}	☒	13	Fe	-0.000140	0.000000	No
			Al	0.000077	0.000000	No
			Ca	-0.000071	0.000000	No
			Mn	-0.015570	0.000000	No
			Si	-0.003000	0.000000	No
			V	-0.002000	0.000000	No
			Pd	0.004000	0.000000	No
			Sn	-0.004700	0.000000	No
			Na	0.000000	0.000000	No
			Ba	-0.002700	0.000000	No
			Mo	-0.000850	0.000000	No
			Cu	-0.010000	0.000000	No
			Ni	-0.010000	0.000000	No
Na 589.592 { 57}	☒	5	K	-0.000560	0.000000	No
			Ba	0.000900	0.000000	No
			Ca	0.000055	0.000000	No
			Al	0.000040	0.000000	No
			V	-0.005000	0.000000	No
B 208.959 {462}	☒	1	Mo	0.024280	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	0.020000	0.000000	No
Pd 340.458 { 99}	☒	10	Ti	-0.001428	0.000000	No
			V	0.000552	0.000000	No
			Sn	-0.000006	0.000000	No
			Fe	0.000038	0.000000	No
			Mo	-0.000220	0.000000	No
			Zr	-0.017300	0.000000	No
			Co	-0.007036	0.000000	No
			Ca	-0.000021	0.000000	No
			S	-0.000177	0.000000	No
			Si	-0.001040	0.000000	No
Si 212.412 {459}	☒	12	Sr	0.000366	0.000000	No
			Ni	0.000106	0.000000	No
			Mo	0.023200	0.000000	No
			V	-0.001400	0.000000	No
			Ti	0.006970	0.000000	No
			Al	-0.000016	0.000000	No
			Cd	0.001043	0.000000	No
			Ba	0.000170	0.000000	No
			Fe	0.000044	0.000000	No
			Sn	0.005721	0.000000	No
			Zn	0.000385	0.000000	No
			As	0.002000	0.000000	No
Sn 189.989 {478}	☒	6	Ti	-0.003950	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

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
Sr 407.771 { 83}	☒	3	Pd	-0.000385	0.000000	No
			Fe	0.000000	0.000000	No
			Ca	0.000043	0.000000	No
Ti 334.904 {101}	☒	4	Si	0.000033	0.000000	No
			Cr	0.000189	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 26				
			Al	0.000002	0.000000	No
			Si	-0.000900	0.000000	No
			Ca	0.000135	0.000000	No
			Fe	-0.000007	0.000000	No
			As	-0.002300	0.000000	No
			Mg	-0.000006	0.000000	No
			Mn	-0.000900	0.000000	No
			Mo	-0.000300	0.000000	No
			Ti	0.000080	0.000000	No
			Sr	-0.000850	0.000000	No
			V	-0.000140	0.000000	No
			Cd	-0.000650	0.000000	No
			Cr	-0.000390	0.000000	No
			Zn	0.009921	0.000000	No
			Pd	-0.000015	0.000000	No
			Sn	0.001300	0.000000	No
			Zr	-0.002570	0.000000	No
			B	-0.001000	0.000000	No
			Sb	-0.003000	0.000000	No
			Co	-0.001000	0.000000	No
			Ni	-0.003000	0.000000	No
			Be	-0.001000	0.000000	No
			Se	-0.002600	0.000000	No
			Cu	-0.001300	0.000000	No
			Ba	-0.001360	0.000000	No
			Tl	-0.002600	0.000000	No
Zr 339.198 { 99}	☒	6	Mo	0.000250	0.000000	No
			Ti	-0.000050	0.000000	No
			Fe	-0.000060	0.000000	No
			Si	0.000870	0.000000	No
			S	0.000039	0.000000	No
			Pd	0.000000	0.000000	No
S 182.034 {485}	☒	7	Ca	0.000063	0.000000	No
			Mo	0.000614	0.000000	No
			Al	-0.000005	0.000000	No
			Fe	-0.000028	0.000000	No
			Mn	0.002300	0.000000	No
			W	-0.028686	0.000000	No
			Zn	-0.001538	0.000000	No
Bi 223.061 {451}	☒	6	Ti	-0.002693	0.000000	No
			V	-0.000680	0.000000	No
			Co	-0.002200	0.000000	No
			Ca	-0.000010	0.000000	No
			Mg	-0.000014	0.000000	No
			W	-0.003914	0.000000	No

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
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}	7/2/2014 10:31:38	7/1/2014 10:02:07	Linear	1/Conc	0.002044	2.697456	0.000000	1.000000
Be 313.042 {108}	7/2/2014 10:31:38	7/1/2014 10:02:07	Linear	1/Conc	0.000122	1.685478	0.000000	1.000000
Cd 228.802 {448}	7/2/2014 10:31:38	7/1/2014 10:02:07	Linear	1/Conc	0.000591	1.095052	0.000000	1.000000
Co 228.616 {448}	7/2/2014 10:31:38	7/1/2014 10:02:07	Linear	1/Conc	-0.000055	0.635059	0.000000	1.000000
Cr 267.716 {126}	7/2/2014 10:31:38	7/1/2014 10:02:07	Linear	1/Conc	0.000009	0.093401	0.000000	1.000000
Cu 324.754 {104}2	7/2/2014 10:31:38	7/1/2014 10:02:07	Linear	1/Conc	0.002119	0.232858	0.000000	1.000000
Mn 257.610 {131}	7/2/2014 10:31:38	7/1/2014 10:02:07	Linear	1/Conc	0.000043	0.600417	0.000000	1.000000
Ni 231.604 {446}	7/2/2014 10:31:38	7/1/2014 10:02:07	Linear	1/Conc	-0.000650	0.493169	0.000000	1.000000
Ag 328.068 {103}	7/2/2014 10:31:38	7/1/2014 10:02:07	Linear	1/Conc	-0.000134	0.134868	0.000000	1.000000
V 292.402 {115}	7/2/2014 10:31:38	7/1/2014 10:02:07	Linear	1/Conc	0.000031	0.161866	0.000000	1.000000
Zn 206.200 {464}	7/2/2014 10:31:38	7/1/2014 10:02:07	Linear	1/Conc	0.000647	1.107785	0.000000	1.000000
As 189.042 {478}	7/2/2014 10:31:38	7/1/2014 10:02:07	Linear	1/Conc	-0.000052	0.104750	0.000000	1.000000
Tl 190.856 {477}	7/2/2014 10:31:38	7/1/2014 10:02:07	Linear	1/Conc	-0.000140	0.076238	0.000000	1.000000
Pb 220.353 {453}	7/2/2014 10:31:38	7/1/2014 10:02:07	Linear	1/Conc	0.000029	0.208799	0.000000	1.000000
Se 196.090 {472}	7/2/2014 10:31:38	7/1/2014 10:02:07	Linear	1/Conc	0.000028	0.079697	0.000000	1.000000
Sb 206.833 {463}	7/2/2014 10:31:38	7/1/2014 10:02:07	Linear	1/Conc	0.000239	0.185094	0.000000	1.000000
Al 396.152 { 85}	7/2/2014 10:31:38	7/1/2014 10:02:07	Linear	1/Conc	0.000008	0.037236	0.000000	1.000000
Ca 317.933 {106}	7/2/2014 10:31:38	7/1/2014 10:02:07	Linear	1/Conc	0.004473	0.054239	0.000000	1.000000
Fe 259.940 {130}	7/2/2014 10:31:38	7/1/2014 10:02:07	Linear	1/Conc	0.000363	0.032502	0.000000	1.000000
Mg 279.079 {121}	7/2/2014 10:31:38	7/1/2014 10:02:07	Linear	1/Conc	-0.000051	0.005116	0.000000	1.000000
K 766.490 { 44}	7/2/2014 10:31:38	7/1/2014 10:02:07	Linear	1/Conc	0.004792	0.046966	0.000000	1.000000
Na 589.592 { 57}	7/2/2014 10:31:38	7/1/2014 10:02:07	Linear	1/Conc	-0.000752	0.163880	0.000000	1.000000
B 208.959 {462}	7/2/2014 10:31:38	7/1/2014 10:02:07	Linear	1/Conc	0.000381	0.261203	0.000000	1.000000
Mo 202.030 {467}	7/2/2014 10:31:38	7/1/2014 10:02:07	Linear	1/Conc	0.000686	0.780885	0.000000	1.000000
Pd 340.458 { 99}	7/2/2014 10:31:38	7/1/2014 10:02:07	Linear	1/Conc	-0.000036	0.058071	0.000000	1.000000
Si 212.412 {459}	7/2/2014 10:31:38	7/1/2014 10:02:07	Linear	1/Conc	0.006454	0.243812	0.000000	1.000000
Sn 189.989 {478}	7/2/2014 10:31:38	7/1/2014 10:02:07	Linear	1/Conc	0.000262	0.180862	0.000000	1.000000
Sr 407.771 { 83}	7/2/2014 10:31:38	7/1/2014 10:02:07	Linear	1/Conc	-0.000294	3.993799	0.000000	1.000000
Ti 334.904 {101}	7/2/2014 10:31:38	7/1/2014 10:02:07	Linear	1/Conc	-0.000096	0.149727	0.000000	1.000000
Y 360.073 { 94}*	7/2/2014 10:31:38	12/23/2009 10:44:16	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
Y 371.030 { 91}*	7/2/2014 10:31:38	12/23/2009 10:44:16	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
Y 224.306 {451}*	7/2/2014 10:31:38	12/23/2009 10:44:16	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
In 230.606 {446}*	7/2/2014 10:31:38	12/23/2009 10:44:16	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
W 207.911 {462}	7/2/2014 10:31:38	7/1/2014 10:02:07	Linear	1/Conc	0.003222	0.341175	0.000000	1.000000
Zr 339.198 { 99}	7/2/2014 10:31:38	7/1/2014 10:02:07	Linear	1/Conc	-0.000089	0.426522	0.000000	1.000000
S 182.034 {485}	7/2/2014 10:31:38	7/1/2014 10:02:07	Linear	1/Conc	0.000098	0.051715	0.000000	1.000000
Bi 223.061 {451}	7/2/2014 10:31:38	7/1/2014 10:02:07	Linear	1/Conc	-0.000948	0.212804	0.000000	1.000000
Li 670.784 { 50}	7/2/2014 10:31:38	7/1/2014 10:02:07	Linear	1/Conc	0.001099	1.222488	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	0.000263	0.000877	OK	1.000000	0.000000	1	0
Be 313.042 {108}	1.000000	0.000000	0.000127	0.000424	OK	1.000000	0.000000	1	0
Cd 228.802 {448}	1.000000	0.000000	0.000178	0.000593	OK	1.000000	0.000000	1	0
Co 228.616 {448}	1.000000	0.000000	0.000226	0.000754	OK	1.000000	0.000000	1	0
Cr 267.716 {126}	1.000000	0.000000	0.000471	0.001571	OK	1.000000	0.000000	1	0
Cu 324.754 {104}2	1.000000	0.000000	0.000444	0.001479	OK	1.000000	0.000000	1	0
Mn 257.610 {131}	1.000000	0.000000	0.000068	0.000226	OK	1.000000	0.000000	1	0
Ni 231.604 {446}	1.000000	0.000000	0.000329	0.001096	OK	1.000000	0.000000	1	0
Ag 328.068 {103}	1.000000	0.000000	0.000652	0.002175	OK	1.000000	0.000000	1	0
V 292.402 {115}	1.000000	0.000000	0.000369	0.001229	OK	1.000000	0.000000	1	0
Zn 206.200 {464}	1.000000	0.000000	0.000156	0.000521	OK	1.000000	0.000000	1	0
As 189.042 {478}	1.000000	0.000000	0.001248	0.004161	OK	1.000000	0.000000	1	0
Tl 190.856 {477}	1.000000	0.000000	0.001293	0.004311	OK	1.000000	0.000000	1	0
Pb 220.353 {453}	1.000000	0.000000	0.001103	0.003678	OK	1.000000	0.000000	1	0
Se 196.090 {472}	1.000000	0.000000	0.002195	0.007318	OK	1.000000	0.000000	1	0
Sb 206.833 {463}	1.000000	0.000000	0.001190	0.003967	OK	1.000000	0.000000	1	0
Al 396.152 { 85}	1.000000	0.000000	0.013674	0.045581	OK	1.000000	0.000000	1	0
Ca 317.933 {106}	1.000000	0.000000	0.004784	0.015945	OK	1.000000	0.000000	1	0
Fe 259.940 {130}	1.000000	0.000000	0.004114	0.013712	OK	1.000000	0.000000	1	0
Mg 279.079 {121}	1.000000	0.000000	0.033196	0.110654	OK	1.000000	0.000000	1	0
K 766.490 { 44}	1.000000	0.000000	0.028223	0.094077	OK	1.000000	0.000000	1	0
Na 589.592 { 57}	1.000000	0.000000	0.007817	0.026057	OK	1.000000	0.000000	1	0
B 208.959 {462}	1.000000	0.000000	0.000621	0.002070	OK	1.000000	0.000000	1	0
Mo 202.030 {467}	1.000000	0.000000	0.000248	0.000827	OK	1.000000	0.000000	1	0
Pd 340.458 { 99}	1.000000	0.000000	0.001447	0.004824	OK	1.000000	0.000000	1	0
Si 212.412 {459}	1.000000	0.000000	0.000908	0.003026	OK	1.000000	0.000000	1	0
Sn 189.989 {478}	1.000000	0.000000	0.000749	0.002496	OK	1.000000	0.000000	1	0
Sr 407.771 { 83}	1.000000	0.000000	0.000110	0.000367	OK	1.000000	0.000000	1	0
Ti 334.904 {101}	1.000000	0.000000	0.000533	0.001776	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	0.001099	0.003663	OK	1.000000	0.000000	1	0
Zr 339.198 { 99}	1.000000	0.000000	0.000201	0.000670	OK	1.000000	0.000000	1	0
S 182.034 {485}	1.000000	0.000000	0.002733	0.009110	OK	1.000000	0.000000	1	0
Bi 223.061 {451}	1.000000	0.000000	0.001331	0.004436	OK	1.000000	0.000000	1	0
Li 670.784 { 50}	1.000000	0.000000	0.001120	0.003732	OK	1.000000	0.000000	1	0

MA34366

Method: ACCUTEST

Operator: Admin

Date of Analysis: 02 Jul 2014 12:34:30

Sample ID	Date	Type	Units	Conc.	μ Abs.	Wt.	Vol.
STDA - 1	02 Jul 2014 12:35:11	Std	ug/l	-	256	1.000	1.000
STDB - 1	02 Jul 2014 12:36:29	Std	ug/l	-	1279	1.000	1.000
STDC - 1	02 Jul 2014 12:37:50	Std	ug/l	-	3584	1.000	1.000
STDD - 1	02 Jul 2014 12:39:14	Std	ug/l	-	7003	1.000	1.000
STDE - 1	02 Jul 2014 12:40:41	Std	ug/l	-	17273	1.000	1.000
STDF - 1	02 Jul 2014 12:42:10	Std	ug/l	-	35318	1.000	1.000
ICV - 1	02 Jul 2014 12:45:40	SMPL	ug/l	3.0061	21142	1.000	1.000
ICB - 1	02 Jul 2014 12:46:56	SMPL	ug/l	-0.0146	-100	1.000	1.000
CCV - 1	02 Jul 2014 12:48:33	CK STND	ug/l	104.0% 2.5995	18283	1.000	1.000
CCB - 1	02 Jul 2014 12:49:52	CK STND	ug/l	-0.0106	-72	1.000	1.000
CRI - 1	02 Jul 2014 12:51:28	SMPL	ug/l	0.1698	1197	1.000	1.000
MP80436-MB1 - 1	02 Jul 2014 13:09:22	SMPL	ug/l	0.0273	195	1.000	1.000
MP80436-LC1 - 1	02 Jul 2014 13:10:38	SMPL	ug/l	5.2986	18633	1.000	2.000
MP80436-S1 - 1	02 Jul 2014 13:11:57	SMPL	ug/l	2.1156	14880	1.000	1.000
MP80436-S2 - 1	02 Jul 2014 13:13:32	SMPL	ug/l	2.1160	14883	1.000	1.000
JB70517-1 - 1	02 Jul 2014 13:15:05	SMPL	ug/l	0.2199	1549	1.000	1.000
JB70517-2 - 1	02 Jul 2014 13:16:39	SMPL	ug/l	0.4740	3336	1.000	1.000
JB70646-1 - 1	02 Jul 2014 13:17:59	SMPL	ug/l	1.1458	8060	1.000	1.000
CCV - 1	02 Jul 2014 13:19:23	CK STND	ug/l	98.0% 2.4509	17238	1.000	1.000
CCB - 1	02 Jul 2014 13:20:45	CK STND	ug/l	-0.0115	-78	1.000	1.000
JB70551-1 - 1	02 Jul 2014 13:22:22	SMPL	ug/l	0.1805	1272	1.000	1.000
JB70647-1A - 1	02 Jul 2014 13:23:42	SMPL	ug/l	0.0915	646	1.000	1.000
JB70647-2A - 1	02 Jul 2014 13:25:03	SMPL	ug/l	0.0474	336	1.000	1.000
JB70648-1A - 1	02 Jul 2014 13:26:22	SMPL	ug/l	0.4521	3182	1.000	1.000
JB70648-2A - 1	02 Jul 2014 13:27:42	SMPL	ug/l	0.2352	1657	1.000	1.000
JB70648-3A - 1	02 Jul 2014 13:29:06	SMPL	ug/l	0.1614	1138	1.000	1.000
JB70169-1 - 1	02 Jul 2014 13:30:27	SMPL	ug/l	0.0350	249	1.000	1.000
JB70169-3 - 1	02 Jul 2014 13:31:46	SMPL	ug/l	0.1809	1275	1.000	1.000
JB70169-5 - 1	02 Jul 2014 13:33:05	SMPL	ug/l	0.0128	93	1.000	1.000
JB70602-1 - 1	02 Jul 2014 13:34:24	SMPL	ug/l	3.7748	26548	1.000	1.000
CCV - 1	02 Jul 2014 13:35:43	CK STND	ug/l	100.4% 2.5102	17655	1.000	1.000
CCB - 1	02 Jul 2014 13:37:18	CK STND	ug/l	-0.0180	-124	1.000	1.000
JB70231-1 - 1	02 Jul 2014 13:38:53	SMPL	ug/l	5.3587	37686	1.000	1.000
JB70306-1 - 1	02 Jul 2014 13:40:13	SMPL	ug/l	-0.0517	-361	1.000	1.000
JB70366-7 - 1	02 Jul 2014 13:41:59	SMPL	ug/l	25.5110	179400	1.000	1.000
JB70324-1A - 1	02 Jul 2014 13:43:19	SMPL	ug/l	-1.6195	-1136	1.000	10.000
JB70324-2A - 1	02 Jul 2014 13:45:26	SMPL	ug/l	-0.0031	-19	1.000	1.000
JB70324-3A - 1	02 Jul 2014 13:46:45	SMPL	ug/l	0.3938	2772	1.000	1.000
JB70426-1 - 1	02 Jul 2014 13:48:05	SMPL	ug/l	27.6648	194546	1.000	1.000
MP80437-MB1 - 1	02 Jul 2014 13:49:28	SMPL	ug/l	-0.2173	-1525	1.000	1.000
MP80437-LC1 - 1	02 Jul 2014 13:51:37	SMPL	ug/l	5.2687	18528	1.000	2.000
CCV - 1	02 Jul 2014 13:53:08	CK STND	ug/l	99.3% 2.4818	17455	1.000	1.000
CCB - 1	02 Jul 2014 13:54:44	CK STND	ug/l	-0.0274	-190	1.000	1.000
MP80437-S1 - 1	02 Jul 2014 13:56:21	SMPL	ug/l	2.3342	16417	1.000	1.000
MP80437-S2 - 1	02 Jul 2014 13:57:41	SMPL	ug/l	2.1939	15431	1.000	1.000
JB69705-3R - 1	02 Jul 2014 13:59:15	SMPL	ug/l	0.2226	1568	1.000	1.000
JB70394-1 - 1	02 Jul 2014 14:00:51	SMPL	ug/l	0.0117	85	1.000	1.000
JB70394-2 - 1	02 Jul 2014 14:02:17	SMPL	ug/l	0.0627	444	1.000	1.000
JB70457-1 - 1	02 Jul 2014 14:03:37	SMPL	ug/l	0.0111	81	1.000	1.000
JB70457-2 - 1	02 Jul 2014 14:04:57	SMPL	ug/l	0.1263	891	1.000	1.000
JB70457-3 - 1	02 Jul 2014 14:06:17	SMPL	ug/l	0.8067	5676	1.000	1.000
JB70457-4 - 1	02 Jul 2014 14:07:39	SMPL	ug/l	0.1651	1164	1.000	1.000
CCV - 1	02 Jul 2014 14:09:09	CK STND	ug/l	102.0% 2.5502	17936	1.000	1.000
CCB - 1	02 Jul 2014 14:10:29	CK STND	ug/l	-0.0077	-51	1.000	1.000
JB70457-5 - 1	02 Jul 2014 14:12:05	SMPL	ug/l	0.3080	2169	1.000	1.000
JB70457-6 - 1	02 Jul 2014 14:13:24	SMPL	ug/l	-0.0021	-12	1.000	1.000
JB70491-1 - 1	02 Jul 2014 14:14:47	SMPL	ug/l	1.7569	12358	1.000	1.000
JB70491-2 - 1	02 Jul 2014 14:16:06	SMPL	ug/l	1.1648	8194	1.000	1.000
JB70550-1 - 1	02 Jul 2014 14:17:37	SMPL	ug/l	0.6173	4344	1.000	1.000
JB70528-1A - 1	02 Jul 2014 14:19:06	SMPL	ug/l	0.3965	2791	1.000	1.000
JB70584-1 - 1	02 Jul 2014 14:20:31	SMPL	ug/l	0.0767	542	1.000	1.000
JB70585-1 - 1	02 Jul 2014 14:21:53	SMPL	ug/l	0.2725	1919	1.000	1.000
JB70605-7 - 1	02 Jul 2014 14:23:13	SMPL	ug/l	0.0754	533	1.000	1.000
CCV - 1	02 Jul 2014 14:24:35	CK STND	ug/l	104.9% 2.6218	18440	1.000	1.000
CCB - 1	02 Jul 2014 14:25:53	CK STND	ug/l	-0.0156	-107	1.000	1.000
JB70605-8 - 1	02 Jul 2014 14:27:29	SMPL	ug/l	0.0105	77	1.000	1.000
JB70644-1 - 1	02 Jul 2014 14:28:49	SMPL	ug/l	0.0132	96	1.000	1.000
JB70644-2 - 1	02 Jul 2014 14:30:09	SMPL	ug/l	0.0575	407	1.000	1.000
JB70644-3 - 1	02 Jul 2014 14:31:28	SMPL	ug/l	0.0647	458	1.000	1.000

MA34366

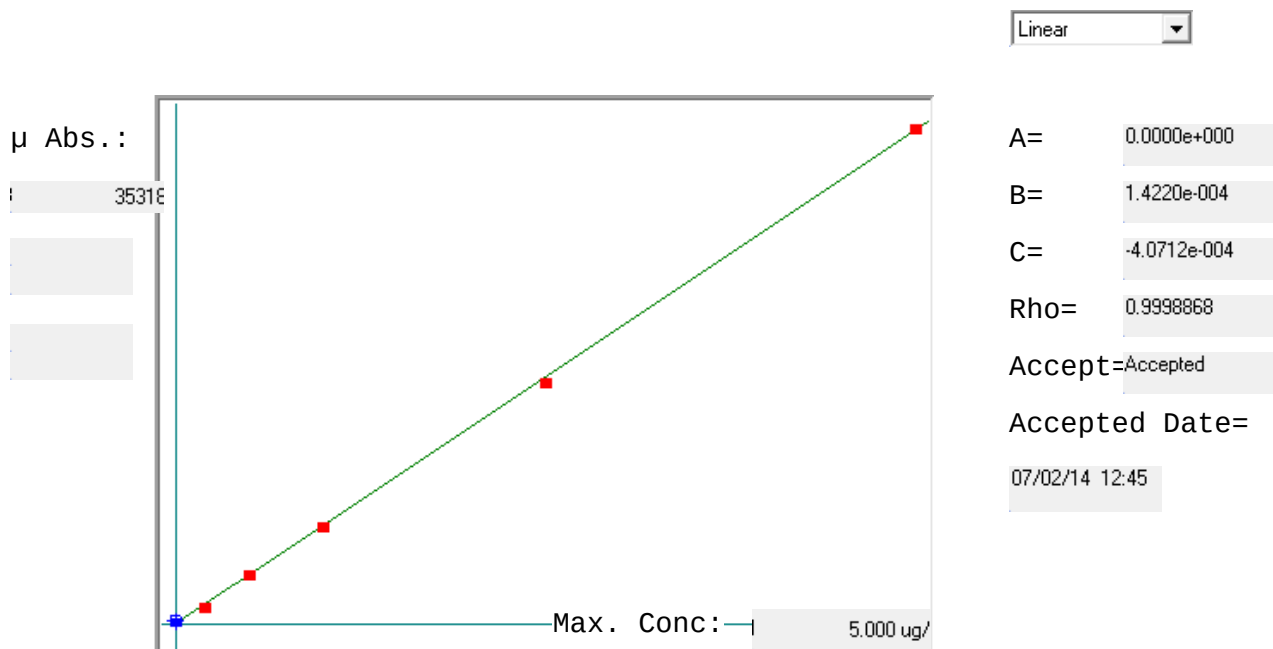
Method: ACCUTEST

Operator: Admin

Date of Analysis: 02 Jul 2014 12:34:30

Sample ID	Date	Type	Units	Conc.	μ Abs.	Wt.	Vol.
MP80438-MB1 - 1	02 Jul 2014 14:32:47	SMPL	ug/l	0.0167	120	1.000	1.000
MP80438-LC1 - 1	02 Jul 2014 14:34:07	SMPL	ug/l	5.6194	19761	1.000	2.000
MP80438-S1 - 1	02 Jul 2014 14:35:27	SMPL	ug/l	1.9805	13930	1.000	1.000
MP80438-S2 - 1	02 Jul 2014 14:37:02	SMPL	ug/l	1.9875	13979	1.000	1.000
JB70644-10 - 1	02 Jul 2014 14:38:38	SMPL	ug/l	0.0046	35	1.000	1.000
CCV - 1	02 Jul 2014 14:40:12	CK STND	ug/l	101.8% 2.5458	17905	1.000	1.000
CCB - 1	02 Jul 2014 14:41:31	CK STND	ug/l	-0.0143	-98	1.000	1.000
JB70644-4 - 1	02 Jul 2014 14:58:39	SMPL	ug/l	0.0585	414	1.000	1.000
JB70644-5 - 1	02 Jul 2014 14:59:56	SMPL	ug/l	0.0936	661	1.000	1.000
JB70644-6 - 1	02 Jul 2014 15:01:16	SMPL	ug/l	0.0492	349	1.000	1.000
JB70644-7 - 1	02 Jul 2014 15:02:37	SMPL	ug/l	0.0630	446	1.000	1.000
JB70644-8 - 1	02 Jul 2014 15:03:57	SMPL	ug/l	0.0280	200	1.000	1.000
JB70644-9 - 1	02 Jul 2014 15:05:17	SMPL	ug/l	0.0693	490	1.000	1.000
JB70644-11 - 1	02 Jul 2014 15:06:37	SMPL	ug/l	0.0688	487	1.000	1.000
JB70644-12 - 1	02 Jul 2014 15:07:56	SMPL	ug/l	0.1520	1072	1.000	1.000
JB70644-13 - 1	02 Jul 2014 15:09:17	SMPL	ug/l	0.0496	352	1.000	1.000
CCV - 1	02 Jul 2014 15:10:37	CK STND	ug/l	100.3% 2.5085	17643	1.000	1.000
CCB - 1	02 Jul 2014 15:11:55	CK STND	ug/l	-0.0089	-60	1.000	1.000
JB70661-1 - 1	02 Jul 2014 15:51:06	SMPL	ug/l	0.1290	910	1.000	1.000
MP80437-MB1 - 1	02 Jul 2014 15:53:15	SMPL	ug/l	0.0184	132	1.000	1.000
JB70231-1 - 1	02 Jul 2014 15:54:32	SMPL	ug/l	4.8071	16905	1.000	2.000
JB70366-7 - 1	02 Jul 2014 15:55:51	SMPL	ug/l	24.4977	17230	1.000	10.000
JB70324-1A - 1	02 Jul 2014 15:57:27	SMPL	ug/l	0.2529	1781	1.000	1.000
JB70426-1 - 1	02 Jul 2014 15:59:03	SMPL	ug/l	30.4006	21381	1.000	10.000
JB70231-1 - 1	02 Jul 2014 16:00:24	SMPL	ug/l	5.2292	18389	1.000	2.000
CRI - 1	02 Jul 2014 16:07:41	SMPL	ug/l	0.2028	1429	1.000	1.000
CCV - 1	02 Jul 2014 16:09:20	CK STND	ug/l	102.8% 2.5691	18069	1.000	1.000
CCB - 1	02 Jul 2014 16:10:37	CK STND	ug/l	-0.0013	-6	1.000	1.000
JB70656-1 - 1	02 Jul 2014 16:30:47	SMPL	ug/l	0.0858	606	1.000	1.000
JB70656-2 - 1	02 Jul 2014 16:32:04	SMPL	ug/l	0.0460	326	1.000	1.000
JB70728-1 - 1	02 Jul 2014 16:33:24	SMPL	ug/l	0.0873	617	1.000	1.000
JB70706-1 - 1	02 Jul 2014 16:34:44	SMPL	ug/l	0.1299	916	1.000	1.000
JB70706-9 - 1	02 Jul 2014 16:36:04	SMPL	ug/l	0.0744	526	1.000	1.000
JB70706-17 - 1	02 Jul 2014 16:37:24	SMPL	ug/l	0.1964	1384	1.000	1.000
JB70722-1 - 1	02 Jul 2014 16:38:44	SMPL	ug/l	3.5820	25192	1.000	1.000
JB70725-1 - 1	02 Jul 2014 16:52:36	SMPL	ug/l	1.2473	880	1.000	10.000
JB70725-1 - 1	02 Jul 2014 16:54:47	SMPL	ug/l	1.7143	12058	1.000	1.000
CCV - 1	02 Jul 2014 16:56:18	CK STND	ug/l	97.7% 2.4414	17171	1.000	1.000
CCB - 1	02 Jul 2014 16:57:41	CK STND	ug/l	-0.0081	-54	1.000	1.000

ACCUTEST



Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
STDA	0.000	0.036	0.036	256	0.000	256				
STDB	0.200	0.181	-0.019	1279	0.0 %	1279				
STDC	0.500	0.509	0.009	3584	0.0 %	3584				
STDD	1.000	0.995	-0.005	7003	0.0 %	7003				
STDE	2.500	2.456	-0.044	17273	0.0 %	17273				
STDF	5.000	5.022	0.022	35318	0.0 %	35318				

11.2.1
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Sample Name: STDA Acquired: 7/2/2014 21:51:41 Type: Cal
Method: Accutest1(v205) 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	.0005	-0.0005	0.0005	-0.0002	0.0000	0.0037	0.0001	-0.0003	-0.0001
Stddev	.0002	.0000	.0001	.0000	.000	.0000	.0000	.0000	.0000
%RSD	30.63	1.687	12.60	21.97	128.2	.9262	1.258	10.36	14.34

#1	.0006	-0.0005	.0005	-0.0002	.0000	.0037	.0001	-0.0003	-0.0001
#2	.0004	-0.0005	.0006	-0.0002	.0000	.0038	.0001	-0.0003	-0.0002

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	0.0003	-0.0001	-0.0003	-0.0004	0.0004	0.0002	0.0001	0.0058
Stddev	.0000	.0001	.0001	.0000	.0001	.0000	.0000	.0000	.0001
%RSD	17.00	28.06	75.04	6.876	28.36	9.200	9.628	11.17	1.005

#1	.0000	.0003	.0000	-0.0003	-0.0003	.0004	.0002	.0001	.0058
#2	-0.0001	.0004	-0.0002	-0.0003	-0.0005	.0004	.0002	.0001	.0057

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	0.0001	0.0000	-0.0036	-0.0026	0.0004	0.0006	-0.0001	0.0034	0.0002
Stddev	.0000	.000	.0001	.0004	.0001	.0001	.0000	.0001	.0001
%RSD	36.60	105.0	3.610	16.07	23.03	18.48	31.22	2.104	43.03

#1	.0001	.0000	-0.0037	-0.0028	.0003	.0007	-0.0001	.0033	.0002
#2	.0000	.0000	-0.0035	-0.0023	.0004	.0006	-0.0001	.0034	.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	-0.0003	-0.0001	0.0045	-0.0001	-0.0006	-0.0010	0.0000		
Stddev	.0001	.0000	.0004	.0000	.0002	.0000	.000		
%RSD	30.19	29.04	9.136	.5132	31.86	4.165	276.7		

#1	-0.0004	-0.0001	.0048	-0.0001	-0.0007	-0.0010	.0000		
#2	-0.0003	-0.0001	.0042	-0.0001	-0.0004	-0.0009	-0.0001		

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Sample Name: STDA Acquired: 7/2/2014 21:51:41 Type: Cal
Method: Accutest1(v205) 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	199800.	47142.	3075.7	8038.8
Stddev	182.	43.	11.1	22.4
%RSD	.09097	.09148	.36243	.27836

#1	199930.	47172.	3067.9	8022.9
#2	199670.	47111.	3083.6	8054.6

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Sample Name: STDB Acquired: 7/2/2014 21:57:49 Type: Cal
Method: Accutest1(v205) 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	6.068	11.05	4.872	2.136	3.411	9.486	1.958	1.626	0.635
Stddev	.129	.08	.001	.002	.0015	.0025	.005	.000	.0001
%RSD	2.118	.7445	.0100	.0854	.4366	.2608	.2742	.0075	.1076

#1	6.159	10.99	4.873	2.137	.3400	.9503	1.961	1.626	.0635
#2	5.977	11.11	4.872	2.134	.3421	.9468	1.954	1.626	.0634

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	.5512	4.746	.7798	2.113	.7030	.5101	1.036	1.912	6.086
Stddev	.0015	.002	.0002	.0000	.0001	.0001	.000	.001	.023
%RSD	.2714	.0357	.0313	.0080	.0164	.0162	.0213	.0650	.3778

#1	.5501	4.747	.7800	.2113	.7031	.5100	1.036	1.913	6.102
#2	.5523	4.745	.7797	.2113	.7029	.5101	1.036	1.912	6.070

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	3.915	.5665	1.040	3.964	1.126	4.404	1.489	3.303	.8819
Stddev	.001	.0005	.000	.023	.000	.003	.0002	.000	.0000
%RSD	.0363	.0809	.0295	.5785	.0370	.0781	.1167	.0010	.0056

#1	3.916	.5668	1.039	3.980	1.127	4.401	.1490	3.303	.8819
#2	3.914	.5661	1.040	3.948	1.126	4.406	.1488	3.304	.8819

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	10.03	.5970	2.086	1.231	.4363	1.412	1.460		
Stddev	.05	.0004	.007	.000	.0006	.000	.000		
%RSD	.5296	.0749	.3571	.0085	.1408	.0125	.0036		

#1	10.07	.5967	2.081	1.231	.4368	1.412	1.460		
#2	9.991	.5974	2.091	1.231	.4359	1.412	1.460		

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Sample Name: STDB Acquired: 7/2/2014 21:57:49 Type: Cal
Method: Accutest1(v205) 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	184650.	46400.	2876.3	7591.7
Stddev	379.	43.	3.5	10.8
%RSD	.20508	.09340	.12117	.14250

#1	184920.	46430.	2873.9	7584.1
#2	184380.	46369.	2878.8	7599.4

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Sample Name: ccvconf Acquired: 7/2/2014 22:04:27 Type: QC									
Method: Accutest1(v205) 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	2.028	2.003	2.009	2.001	1.956	2.060	2.027	2.447
Stddev	.001	.014	.003	.003	.007	.002	.007	.001	.0006
%RSD	.0310	.6826	.1229	.1225	.3486	.0899	.3337	.0627	.2458
#1	1.990	2.018	2.005	2.007	1.996	1.957	2.055	2.026	2.451
#2	1.989	2.038	2.002	2.010	2.006	1.955	2.065	2.028	2.443
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	1.980	2.050	2.004	2.051	2.020	2.005	1.977	39.76	40.86
Stddev	.005	.000	.002	.001	.004	.005	.000	.04	.02
%RSD	.2632	.0098	.0972	.0560	.2036	.2475	.0032	.1084	.0420
#1	1.977	2.050	2.005	2.050	2.017	2.009	1.977	39.79	40.87
#2	1.984	2.050	2.002	2.052	2.022	2.002	1.977	39.73	40.85
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	40.70	39.76	39.94	40.57	2.036	1.977	1.961	F 4.339	2.018
Stddev	.03	.04	.07	.02	.001	.001	.001	.005	.002
%RSD	.0692	.1084	.1853	.0550	.0431	.0330	.0396	.1148	.1135
#1	40.68	39.73	39.99	40.59	2.037	1.978	1.961	4.342	2.017
#2	40.72	39.79	39.88	40.55	2.035	1.977	1.962	4.335	2.020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value								5.000	
Range								-10.00%	

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Sample Name: ccvconf Acquired: 7/2/2014 22:04:27 Type: QC									
Method: Accutest1(v205) 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	2.029	2.002	1.966	1.988	1.975	1.959	1.962		
Stddev	.018	.004	.005	.004	.000	.003	.001		
%RSD	.8987	.1761	.2347	.1747	.0105	.1336	.0565		
#1	2.042	1.999	1.962	1.985	1.975	1.961	1.963		
#2	2.016	2.004	1.969	1.990	1.975	1.958	1.961		
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	190420.	46737.	2962.7	7748.6					
Stddev	546.	35.	2.3	.8					
%RSD	.28692	.07574	.07644	.01050					
#1	190800.	46712.	2961.1	7749.1					
#2	190030.	46762.	2964.3	7748.0					

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Sample Name: ccbconf Acquired: 7/2/2014 22:10:39 Type: QC									
Method: Accutest1(v205) 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	.0002	.0002	.0001	.0003	.0000	.0002	.0001	.0001
Stddev	.0001	.0000	.0000	.0000	.0001	.000	.0000	.0000	.0004
%RSD	24.24	1.230	1.817	23.57	44.43	101.8	11.47	4.514	261.5
#1	.0004	.0002	.0002	.0001	.0004	.0000	.0002	.0001	.0004
#2	.0003	.0002	.0002	.0001	.0002	.0000	.0002	.0001	.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	.0004	.0010	.0002	.0006	.0002	.0012	.0007	.0028	.0031
Stddev	.0001	.0001	.0000	.0002	.0004	.0003	.0004	.0020	.0018
%RSD	21.24	5.236	24.57	33.16	169.5	23.01	58.97	71.90	58.49
#1	.0005	.0011	.0002	.0004	.0000	.0014	.0010	.0043	.0044
#2	.0004	.0010	.0002	.0007	.0005	.0010	.0004	.0014	.0018
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	.0043	.0032	.0393	.0003	.0023	.0005	.0007	.0009	.0006
Stddev	.0017	.0024	.0055	.0006	.0001	.0000	.0003	.0002	.0001
%RSD	40.11	74.06	13.93	187.5	5.154	9.927	35.22	22.87	11.70
#1	.0055	.0049	.0354	.0001	.0024	.0005	.0006	.0008	.0006
#2	.0031	.0015	.0431	.0007	.0022	.0004	.0009	.0011	.0007
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: 7/2/2014 22:10:39 Type: QC									
Method: Accutest1(v205) 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	.0166	.0006	.0015	.0002	.0011		
Stddev	.0001	.0002	.0023	.0001	.0003	.0005	.0002		
%RSD	39.19	81.15	13.78	14.43	22.64	199.5	19.84		
#1	.0003	.0001	.0182	.0006	.0013	.0001	.0010		
#2	.0002	.0003	.0149	.0005	.0018	.0005	.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	198810.	46994.	3067.7	8019.4					
Stddev	488.	18.	19.1	52.0					
%RSD	.24561	.03839	.62362	.64889					
#1	198470.	47007.	3081.2	8056.2					
#2	199160.	46981.	3054.2	7982.6					

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Sample Name: icv Acquired: 7/2/2014 22:16:53 Type: QC
Method: Accutest1(v205) 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	2.034	1.997	2.011	2.012	1.957	2.042	2.032	2.449
Stddev	.000	.003	.002	.001	.004	.001	.004	.002	.0009
%RSD	.0092	.1476	.1226	.0606	.2199	.0444	.1721	.0818	.3855
#1	1.987	2.036	1.995	2.012	2.008	1.957	2.044	2.033	2.442
#2	1.987	2.032	1.999	2.011	2.015	1.956	2.040	2.031	2.455

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	1.988	2.048	1.995	2.057	2.023	2.003	1.977	39.39	40.88
Stddev	.002	.003	.001	.004	.004	.002	.002	.03	.07
%RSD	.1021	.1353	.0704	.1905	.1847	.1126	.0765	.0662	.1595
#1	1.986	2.050	1.994	2.060	2.026	2.001	1.976	39.41	40.83
#2	1.989	2.046	1.995	2.055	2.021	2.004	1.978	39.37	40.92

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	40.81	40.05	39.51	40.18	2.034	1.975	1.953	F 4.320	2.022
Stddev	.08	.14	.02	.07	.004	.003	.003	.005	.001
%RSD	.2030	.3474	.0602	.1858	.2187	.1324	.1290	.1188	.0537
#1	40.75	39.95	39.53	40.23	2.031	1.974	1.951	4.317	2.021
#2	40.87	40.15	39.50	40.12	2.037	1.977	1.955	4.324	2.022

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Fail Chk Pass
Value
Range
5.000
-10.00%

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Sample Name: icb Acquired: 7/2/2014 22:23:07 Type: QC
Method: Accutest1(v205) 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	.0003	.0002	.0002	-.0003	.0002	.0001	.0001
Stddev	.0000	.0000	.0000	.0001	.0001	.0001	.0000	.0001	.0001
%RSD	2.200	16.49	3.797	42.12	75.56	31.95	19.29	151.6	89.85
#1	.0003	.0002	.0003	.0001	.0002	-.0002	.0002	.0000	.0000
#2	.0003	.0002	.0003	.0002	.0001	-.0003	.0002	.0002	.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	.0004	-.0008	.0002	-.0008	-.0005	-.0012	-.0002	.0017	.0048
Stddev	.0002	.0002	.0010	.0009	.0001	.0009	.0000	.0018	.0006
%RSD	55.78	24.53	443.5	106.8	26.67	76.28	19.72	108.0	12.48
#1	.0005	-.0010	.0010	-.0002	-.0004	-.0019	-.0001	.0030	.0044
#2	.0002	-.0007	-.0005	-.0014	-.0006	-.0006	-.0002	.0004	.0053

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	.0042	-.0007	.0454	.0008	.0018	.0006	.0000	.0017	.0001
Stddev	.0007	.0056	.0148	.0050	.0002	.0000	.000	.0002	.0000
%RSD	17.24	758.1	32.73	600.5	11.76	2.185	2120.	12.40	21.92
#1	.0047	.0032	.0559	.0044	.0017	.0006	-.0003	.0015	.0002
#2	.0037	-.0047	.0349	-.0027	.0020	.0007	.0003	.0018	.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: icv Acquired: 7/2/2014 22:16:53 Type: QC
Method: Accutest1(v205) 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	1.990	1.947	1.974	1.973	1.952	1.969
Stddev	.017	.001	.011	.001	.005	.003	.003
%RSD	.8562	.0698	.5640	.0427	.2353	.1599	.1353
#1	2.005	1.989	1.939	1.973	1.976	1.950	1.967
#2	1.981	1.991	1.955	1.975	1.970	1.954	1.970

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	190440.	46565.	2962.5	7737.8
Stddev	178.	117.	2.7	2.6
%RSD	.09334	.25213	.09245	.03404
#1	190570.	46648.	2964.4	7735.9
#2	190310.	46482.	2960.6	7739.7

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Sample Name: icb Acquired: 7/2/2014 22:23:07 Type: QC
Method: Accutest1(v205) 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	.0141	.0007	-.0022	-.0004	.0008
Stddev	.0000	.0002	.0020	.0001	.0008	.0012	.0006
%RSD	10.55	69.79	14.41	11.57	37.14	343.2	70.14
#1	.0003	.0001	.0156	.0008	-.0028	.0005	.0004
#2	.0002	.0004	.0127	.0007	-.0016	-.0012	.0012

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	200010.	47152.	3065.1	8003.6
Stddev	322.	33.	6.8	10.4
%RSD	.16085	.06993	.22176	.12980
#1	199790.	47175.	3069.9	8011.0
#2	200240.	47129.	3060.3	7996.3

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Sample Name: ccv Acquired: 7/2/2014 22:29:20 Type: QC
Method: Accutest1(v205) 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	1.984	2.026	1.993	2.014	2.015	1.961	2.047	2.030	2.441
Stddev	.001	.021	.003	.002	.001	.003	.004	.001	.0002
%RSD	.0328	1.055	.1319	.1033	.0280	.1437	.2059	.0494	.0618
#1	1.984	2.011	1.991	2.012	2.015	1.959	2.050	2.029	2.440
#2	1.983	2.041	1.994	2.015	2.015	1.963	2.044	2.031	2.442

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	1.990	2.047	1.996	2.053	2.026	1.999	1.979	39.26	40.97
Stddev	.000	.005	.003	.005	.001	.001	.002	.01	.08
%RSD	.0180	.2433	.1386	.2394	.0523	.0443	.1162	.0328	.1852
#1	1.990	2.044	1.994	2.049	2.027	1.999	1.977	39.25	40.91
#2	1.990	2.051	1.998	2.056	2.025	2.000	1.980	39.27	41.02

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	40.94	40.06	39.40	40.25	2.036	1.972	1.926	4.328	2.024
Stddev	.06	.02	.04	.03	.003	.002	.001	.006	.006
%RSD	.1409	.0567	.1090	.0651	.1393	.0910	.0593	.1317	.2816
#1	40.90	40.05	39.37	40.27	2.034	1.971	1.927	4.324	2.020
#2	40.98	40.08	39.43	40.23	2.038	1.973	1.925	4.332	2.028

Check ? Value Range
Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Fail 5.000
-10.00%

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Sample Name: ccb Acquired: 7/2/2014 22:35:29 Type: QC
Method: Accutest1(v205) 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	.0003	.0001	.0003	.0000	.0002	.0000	.0001
Stddev	.0000	.0000	.0001	.0001	.0003	.000	.0001	.0003	.0004
%RSD	15.11	3.472	26.44	79.72	83.04	283.4	31.20	734.9	624.0
#1	.0003	.0002	.0003	.0000	.0001	.0000	.0002	.0003	.0002
#2	.0002	.0002	.0004	.0002	.0005	.0000	.0001	.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	.0002	.0008	.0002	.0003	.0000	.0014	.0004	.0038	.0037
Stddev	.0001	.0001	.0005	.0003	.0004	.0011	.0002	.0050	.0001
%RSD	28.88	13.57	197.5	82.80	644.2	82.00	56.05	129.6	1.434
#1	.0003	.0009	.0001	.0001	.0003	.0022	.0006	.0073	.0037
#2	.0002	.0007	.0006	.0005	.0003	.0006	.0002	.0003	.0037

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	.0045	.0065	.0271	.0044	.0019	.0006	.0007	.0020	.0000
Stddev	.0000	.0017	.0089	.0092	.0001	.0002	.0006	.0010	.000
%RSD	.7242	26.04	33.03	211.5	4.115	28.41	87.34	50.36	451.9
#1	.0046	.0078	.0208	.0022	.0020	.0007	.0003	.0027	.0001
#2	.0045	.0053	.0334	.0109	.0018	.0005	.0012	.0013	.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: ccv Acquired: 7/2/2014 22:29:20 Type: QC
Method: Accutest1(v205) 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	2.006	1.989	1.939	1.967	1.973	1.951	1.961
Stddev	.017	.002	.011	.004	.002	.001	.001
%RSD	.8491	.1168	.5554	.1979	.0925	.0560	.0340
#1	1.994	1.991	1.931	1.970	1.972	1.952	1.961
#2	2.018	1.987	1.946	1.964	1.974	1.950	1.960

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	190410.	46438.	2958.6	7730.4
Stddev	28.	294.	2.4	1.2
%RSD	.01480	.63332	.07965	.01555
#1	190390.	46646.	2960.2	7731.3
#2	190430.	46230.	2956.9	7729.6

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Sample Name: ccb Acquired: 7/2/2014 22:35:29 Type: QC
Method: Accutest1(v205) 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	.0143	.0006	.0019	.0008	.0011
Stddev	.0000	.0002	.0021	.0001	.0003	.0001	.0002
%RSD	9.264	174.7	14.98	10.47	15.33	15.71	22.49
#1	.0002	.0000	.0159	.0007	.0022	.0008	.0009
#2	.0002	.0002	.0128	.0006	.0017	.0007	.0012

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	199990.	47257.	3062.2	8007.0
Stddev	401.	46.	5.5	11.2
%RSD	.20038	.09780	.17900	.13956
#1	199710.	47224.	3066.1	8014.9
#2	200280.	47290.	3058.3	7999.1

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Sample Name: cri		Acquired: 7/2/2014 22:41:40			Type: QC			
Method: Accutest1(v205)		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	.2049	.0021	.0033	.0527	.0107	.0095	.0161	.0108
Stddev	.0000	.0000	.0001	.0000	.0000	.0002	.0000	.0001
%RSD	.0094	.1556	2.133	.0182	.2570	1.640	.0279	1.361
#1	.2049	.0021	.0033	.0527	.0107	.0094	.0162	.0109
#2	.2049	.0021	.0032	.0527	.0106	.0096	.0161	.0106
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	.0047	.0540	.0212	.0078	.0117	.0032	W .0121	.0062
Stddev	.0000	.0001	.0002	.0000	.0006	.0006	.0005	.0002
%RSD	.0929	.1978	.8421	.4946	5.223	18.18	4.399	3.794
#1	.0047	.0539	.0211	.0078	.0121	.0037	.0125	.0061
#2	.0047	.0541	.0213	.0078	.0112	.0028	.0117	.0064
Check ? Value Range	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn .0100 20.00%	Chk Pass
Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2030	5.193	.1098	5.125	5.036	5.105	.1027	.0207
Stddev	.0010	.005	.0006	.003	.004	.001	.0003	.0000
%RSD	.5100	.0970	.5563	.0644	.0838	.0170	.3347	.1578
#1	.2023	5.190	.1094	5.123	5.039	5.106	.1030	.0208
#2	.2038	5.197	.1103	5.127	5.033	5.104	.1025	.0207
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: 7/2/2014 22:41:40		Type: QC				
Method: Accutest1(v205)		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	.0587	.2042	.0097	.0106	.0103	.0572	.0097	.0461
Stddev	.0005	.0000	.0000	.0001	.0003	.0005	.0000	.0003
%RSD	.8186	.0083	.3684	.6180	2.979	.8721	.0852	.7563
#1	.0591	.2042	.0096	.0105	.0101	.0575	.0097	.0463
#2	.0584	.2042	.0097	.0106	.0105	.0568	.0097	.0458
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	.0192	.0219						
Stddev	.0005	.0001						
%RSD	2.496	.5795						
#1	.0188	.0220						
#2	.0195	.0218						
Check ?	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	197830.	46881.	3035.5	7935.3				
Stddev	278.	200.	2.5	7.0				
%RSD	.14076	.42592	.08219	.08820				
#1	197630.	47022.	3037.2	7940.3				
#2	198020.	46740.	3033.7	7930.4				

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Sample Name: crid		Acquired: 7/2/2014 22:47:48			Type: QC			
Method: Accutest1(v205)		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	.0012	.0033	.0021	.0016	.0032	.0043
Stddev	.0001	.0000	.0000	.0002	.0001	.0001	.0000	.0000
%RSD	3.142	.2787	3.708	6.724	4.670	5.694	.0164	.6379
#1	.0041	.0010	.0011	.0034	.0020	.0017	.0032	.0043
#2	.0042	.0010	.0012	.0031	.0022	.0015	.0032	.0043
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	.0010	.0022	F .0137	W .0023	.0023	.0024	.0040	.0028
Stddev	.0000	.0001	.0000	.0006	.0013	.0001	.0008	.0007
%RSD	3.372	5.918	.0117	25.91	57.22	5.329	21.23	24.33
#1	.0010	.0023	.0137	.0027	.0013	.0023	.0034	.0033
#2	.0010	.0021	.0137	.0018	.0032	.0025	.0046	.0023
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value			.0100	.0030				
Range			30.00%	-20.00%				
Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1011	1.057	.0005	.0983	2.060	1.022	.0106	-0.0001
Stddev	.0040	.001	.0003	.0052	.003	.005	.0001	.0000
%RSD	3.930	.1239	57.66	5.283	.1474	.5012	.6273	71.96
#1	.1039	1.056	.0003	.0946	2.058	1.018	.0107	.0000
#2	.0983	1.058	.0007	.1019	2.062	1.026	.0106	-.0001
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: 7/2/2014 22:47:48		Type: QC				
Method: Accutest1(v205)		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	.0031	-0.0002	.0000	-0.0002	F .0007	F -.0001	F .0000
Stddev	.0010	.0003	.0001	.000	.0001	.0011	.0000	.0008
%RSD	419.1	8.549	71.64	20.41	51.30	157.9	7.363	3659.
#1	-.0005	.0029	-.0001	.0000	-.0003	.0015	-.0001	.0006
#2	.0010	.0033	-.0002	.0000	-.0002	-.0001	-.0001	-.0005
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 -.0002	F .0001						
Stddev	.0001	.0004						
%RSD	29.47	445.4						
#1	-.0003	-.0002						
#2	-.0002	.0004						
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	199530.	47554.	3049.6	7977.0				
Stddev	118.	70.	1.9	12.9				
%RSD	.05920	.14664	.06335	.16129				
#1	199450.	47603.	3050.9	7986.1				
#2	199620.	47505.	3048.2	7967.9				

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Sample Name: cria Acquired: 7/2/2014 22:53:59 Type: QC
Method: Accutest1(v205) 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	-0.001	-0.001	.0000	-0.005	.0000	-0.001	-0.001
Stddev	.0001	.000	.0000	.0000	.0000	.0001	.000	.0002	.0001
%RSD	80.35	.9065	31.48	20.12	245.1	24.16	21.27	218.3	134.6
#1	.0001	.0000	-0.001	-0.001	.0000	-0.006	.0000	.0001	-0.002
#2	.0002	.0000	-0.001	-0.001	.0001	-0.004	.0000	-0.003	.0000

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	.0002	.0005	.0195	-0.003	.0201	.0202	.0203	.4826	.0004
Stddev	.0002	.0001	.0003	.0001	.0004	.0005	.0004	.0017	.0005
%RSD	120.1	14.38	1.543	52.69	1.816	2.725	1.866	.3507	130.1
#1	.0004	.0005	.0193	-0.004	.0204	.0206	.0200	.4838	.0007
#2	.0000	.0006	.0197	-0.002	.0199	.0198	.0206	.4814	.0000

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	.5318	.0000	.0288	-0.0087	.0005	-0.0002	.0002	.0043	-0.0003
Stddev	.0008	.006	.0286	.0030	.0004	.0001	.0003	.0001	.0002
%RSD	.1525	80410.	99.35	34.81	74.51	72.23	123.2	2.031	84.37
#1	.5312	.0041	.0086	-.0108	.0007	-.0003	.0000	.0044	-.0001
#2	.5324	-.0041	.0490	-.0066	.0002	-.0001	.0004	.0043	-.0004

Check ? Value Range
Chk Pass None None None None None None None None

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Sample Name: cria Acquired: 7/2/2014 22:53:59 Type: QC
Method: Accutest1(v205) 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	-0.0018	-0.002	-0.0014	-0.001	.0006
Stddev	.000	.0000	.0004	.0001	.0013	.0008	.0003
%RSD	38.48	298.3	24.65	57.22	92.61	970.2	47.47
#1	.0000	.0000	-.0015	-0.001	-.0023	.0005	.0004
#2	.0000	.0000	-.0021	-0.003	-.0005	-.0007	.0009

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	200030.	47290.	3067.1	8006.8
Stddev	119.	167.	.8	8.1
%RSD	.05940	.35264	.02555	.10103
#1	200110.	47172.	3066.5	8001.1
#2	199940.	47408.	3067.6	8012.5

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Sample Name: crid Acquired: 7/2/2014 23:00:12 Type: QC
Method: Accutest1(v205) 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	.0041	.0010	.0011	.0030	.0023	.0017	.0033	.0042
Stddev	.0001	.0000	.0000	.0001	.0000	.0000	.0000	.0003
%RSD	2.106	.8270	4.203	3.757	1.955	1.296	.6495	7.012
#1	.0042	.0010	.0011	.0031	.0022	.0017	.0033	.0045
#2	.0041	.0009	.0010	.0029	.0023	.0017	.0032	.0040

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	.0009	.0023	F .0139	W .0021	.0019	.0026	W .0039	W .0022
Stddev	.0001	.0001	.0000	.0005	.0001	.0004	.0002	.0001
%RSD	4.498	2.831	.5846	22.79	4.669	15.15	4.148	2.463
#1	.0009	.0023	.0138	.0018	.0020	.0029	.0040	.0023
#2	.0009	.0024	.0140	.0025	.0019	.0023	.0038	.0022

Check ? Value Range
Chk Pass Chk Pass Chk Fail .0100 30.00% Chk Warn .0030 -20.00% Chk Pass Chk Pass Chk Warn .0050 -20.00% Chk Warn .0030 -20.00%

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0980	1.068	.0010	.1106	2.035	1.013	.0102	-0.0002
Stddev	.0024	.006	.0001	.0080	.001	.006	.0002	.0001
%RSD	2.425	.5491	12.04	7.261	.0533	.6053	2.042	63.26
#1	.0963	1.064	.0009	.1162	2.035	1.008	.0100	-.0003
#2	.0996	1.072	.0011	.1049	2.034	1.017	.0103	-.0001

Check ? Value Range
Chk Pass Chk Pass None Chk Pass Chk Pass Chk Pass Chk Pass None

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Sample Name: crid Acquired: 7/2/2014 23:00:12 Type: QC
Method: Accutest1(v205) 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	-0.0003	.0036	-0.0004	.0000	-0.0002	F -.0026	F -.0003	F -.0003
Stddev	.0016	.0004	.0005	.0000	.0001	.0000	.0001	.0003
%RSD	558.2	10.40	134.3	313.9	57.08	.1836	50.80	96.26
#1	-.0014	.0039	.0000	.0000	-.0003	-.0026	-.0002	-.0001
#2	.0009	.0034	-.0008	.0000	-.0001	-.0026	-.0004	-.0005

Check ? Value Range
None None None None None Chk Fail .0040 -30.00% Chk Fail .0040 -30.00% Chk Fail .0040 -30.00%

Elem	Bi2230	Li6707
Units	ppm	ppm
Avg	F -.0001	F .0000
Stddev	.0002	.0009
%RSD	301.1	1827.
#1	-.0002	.0007
#2	.0001	-.0006

Check ? Value Range
Chk Fail .0040 -30.00% Chk Fail .0040 -30.00%

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	198260.	46763.	3057.4	7985.8
Stddev	235.	236.	.5	2.1
%RSD	.11854	.50446	.01521	.02660
#1	198090.	46930.	3057.7	7987.3
#2	198430.	46596.	3057.0	7984.3

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Sample Name: icsa Acquired: 7/2/2014 23:06:22 Type: QC
Method: Accutest1(v205) 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	-0.0001	.0005	-0.0009	-0.0006	.0015	.0027	-0.017	.0077
Stddev	.0001	.0000	.0000	.0001	.0001	.0005	.0002	.0003	.0011
%RSD	20.17	14.73	2.803	7.490	24.37	30.72	8.537	15.40	14.19
#1	-.0003	.0000	.0005	-.0009	-.0007	.0018	.0029	-.0015	.0085
#2	-.0004	-.0001	.0005	-.0010	-.0005	.0011	.0025	-.0018	.0069

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	.0006	-0.0002	-0.0020	-0.0010	-0.0008	.0001	.0012	486.6	376.1
Stddev	.0000	.0001	.0008	.0015	.0001	.0002	.0007	4.0	3.1
%RSD	5.862	36.95	39.75	148.2	14.63	216.1	60.26	.8312	.8174
#1	.0005	-.0003	-.0015	.0000	-.0009	.0002	.0007	483.7	373.9
#2	.0006	-.0002	-.0026	-.0021	-.0007	.0000	.0017	489.4	378.3

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	185.7	514.1	-0.084	.0055	.0000	-0.0027	.0145	.0174	-0.0012
Stddev	2.1	1.2	.0006	.0026	.001	.0000	.0001	.0009	.0005
%RSD	1.133	.2414	.5271	47.37	7052.	1.288	.6239	5.128	40.47
#1	187.2	513.2	.1080	.0037	-.0008	-.0027	.0144	.0180	-.0009
#2	184.2	515.0	.1088	.0074	.0008	-.0027	.0146	.0168	-.0016

Check ? High Limit
Low Limit

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Sample Name: icsa Acquired: 7/2/2014 23:06:22 Type: QC
Method: Accutest1(v205) 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	-0.0061	.0007	.0028	-0.0010	.0434	.0017	.0065
Stddev	.0001	.0003	.0007	.0003	.0001	.0009	.0001
%RSD	2.048	47.60	23.78	32.87	.1720	50.24	1.388
#1	-.0060	.0004	.0033	-.0008	.0433	.0011	.0066
#2	-.0062	.0009	.0023	-.0012	.0435	.0024	.0065

Check ? High Limit
Low Limit

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	176260.	45659.	2755.6	7104.5
Stddev	30.	48.	7.0	12.0
%RSD	.01719	.10574	.25457	.16823
#1	176280.	45693.	2760.6	7112.9
#2	176240.	45625.	2750.6	7096.0

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Sample Name: ICSAB Acquired: 7/2/2014 23:12:42 Type: QC
Method: Accutest1(v205) 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	.4825	.4881	1.003	.4789	.4783	.5004	.4893	.9572	1.005
Stddev	.0003	.0000	.001	.0005	.0008	.0009	.0002	.0008	.002
%RSD	.0561	.0026	.1014	.0975	.1687	.1867	.0337	.0823	.1502
#1	.4827	.4880	1.002	.4792	.4777	.5011	.4892	.9578	1.006
#2	.4823	.4881	1.004	.4785	.4789	.4998	.4895	.9566	1.004

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	.4736	.9659	1.007	.9652	.9464	.9847	1.018	488.6	372.7
Stddev	.0003	.0020	.000	.0025	.0019	.0026	.000	9.0	3.0
%RSD	.0606	.2046	.0132	.2550	.1971	.2622	.0254	1.851	.8071
#1	.4734	.9673	1.007	.9670	.9478	.9829	1.018	495.0	370.5
#2	.4738	.9645	1.007	.9635	.9451	.9865	1.018	482.2	374.8

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	184.9	515.1	.1392	-0.0003	-0.0007	.4886	.5379	.0195	-0.0016
Stddev	1.6	.5	.0078	.0029	.0004	.0003	.0015	.0002	.0014
%RSD	.8599	.1062	5.613	963.8	59.64	.0641	.2719	1.137	87.27
#1	186.0	514.7	.1447	-.0024	-.0004	.4884	.5390	.0196	-.0006
#2	183.7	515.5	.1337	.0018	-.0010	.4888	.5369	.0193	-.0025

Check ? Value Range

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Sample Name: ICSAB Acquired: 7/2/2014 23:12:42 Type: QC
Method: Accutest1(v205) 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	-0.0060	.0012	.4975	.4862	.5388	.4880	.4942
Stddev	.0001	.0004	.0029	.0003	.0026	.0010	.0000
%RSD	1.226	37.58	.5787	.0705	.4878	.2067	.0066
#1	-.0060	.0015	.4955	.4860	.5407	.4873	.4942
#2	-.0061	.0009	.4995	.4865	.5370	.4887	.4942

Check ? Value Range

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	176190.	45703.	2750.0	7120.1
Stddev	295.	10.	.1	.1
%RSD	.16747	.02294	.00274	.00204
#1	175980.	45710.	2750.0	7120.0
#2	176400.	45695.	2749.9	7120.2

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Sample Name: feconf Acquired: 7/2/2014 23:18:59 Type: Unk
Method: Accutest1(v205) 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	-.0007	-.0001	.0024	.0052	.0000	.0076
Stddev	.0001	.0000	.0001	.0002	.0001	.0004	.0002	.0002	.0006
%RSD	66.33	50.06	24.36	27.11	56.40	14.93	4.251	2240.	7.314
#1	.0002	.0000	-.0003	-.0005	-.0002	.0022	.0051	.0002	.0072
#2	.0001	.0000	-.0002	-.0008	-.0001	.0027	.0054	-.0002	.0080
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0007	.0046	-.0022	.0005	.0016	-.0052	.0049	.0121	.0123
Stddev	.0001	.0001	.0004	.0000	.0002	.0000	.0007	.0014	.0005
%RSD	20.33	2.048	16.91	8.325	14.34	.9402	13.68	12.01	4.421
#1	.0006	.0047	-.0019	.0005	.0014	-.0051	.0044	.0110	.0127
#2	.0008	.0045	-.0024	.0005	.0017	-.0052	.0054	.0131	.0119
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	216.2	-.0313	.1283	-.0056	-.0019	.0004	.0231	-.0158	-.0028
Stddev	1.1	.0031	.0017	.0019	.0003	.0001	.0007	.0008	.0006
%RSD	.5088	9.856	1.348	34.30	16.04	22.66	2.873	5.220	21.74
#1	215.5	-.0291	.1271	-.0069	-.0017	.0003	.0236	-.0163	-.0024
#2	217.0	-.0335	.1295	-.0042	-.0021	.0004	.0226	-.0152	-.0032
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0000	-.0001	.0043	.0010	.0061	.0048	-.0005		
Stddev	.0000	.0000	.0001	.0001	.0012	.0000	.0006		
%RSD	5666.	12.81	1.332	13.75	19.26	.0625	127.2		
#1	.0000	-.0001	.0044	.0009	.0052	.0048	-.0009		
#2	.0000	-.0001	.0043	.0011	.0069	.0048	.0000		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	196820.	46803.	3036.5	8189.2					
Stddev	122.	132.	3.5	9.9					
%RSD	.06205	.28153	.11575	.12091					
#1	196730.	46896.	3034.0	8182.2					
#2	196900.	46709.	3038.9	8196.2					

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Sample Name: crconf Acquired: 7/2/2014 23:25:11 Type: Unk
Method: Accutest1(v205) 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	.0000	-.0001	.0012	10.36	-.0006	-.0001	-.0002	.0002
Stddev	.0001	.0000	.0000	.0000	.01	.0001	.0000	.0001	.0001
%RSD	10.24	25.00	3.408	3.288	.1445	14.29	61.51	70.68	69.43
#1	.0008	.0000	-.0001	.0012	10.35	-.0006	-.0001	-.0001	.0003
#2	.0006	.0000	-.0001	.0013	10.37	-.0005	.0000	-.0002	.0001
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0057	.0063	-.0018	-.0007	.0000	-.0025	.0020	.0105	.0013
Stddev	.0000	.0000	.0003	.0006	.0007	.0012	.0004	.0029	.0002
%RSD	.4432	.1660	18.88	92.74	2149.	46.98	20.52	27.37	18.87
#1	.0058	.0063	-.0021	-.0011	.0005	-.0033	.0017	.0125	.0011
#2	.0057	.0063	-.0016	-.0002	-.0005	-.0017	.0023	.0085	.0015
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0156	.0156	.0101	-.0030	-.0004	.0005	-.0019	-.0082	-.0015
Stddev	.0001	.0004	.0088	.0050	.0001	.0002	.0004	.0005	.0002
%RSD	.5684	2.326	87.18	165.1	32.55	35.34	21.20	5.635	10.06
#1	.0156	.0158	.0039	-.0066	-.0005	.0006	-.0016	-.0085	-.0016
#2	.0155	.0153	.0164	.0005	-.0003	.0004	-.0021	-.0078	-.0014
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0000	.0001	-.0050	-.0075	.0014	.0028	.0003		
Stddev	.0000	.0001	.0008	.0001	.0001	.0007	.0001		
%RSD	146.1	126.3	15.40	.8007	10.38	23.33	47.26		
#1	.0000	.0000	-.0056	-.0075	.0015	.0033	.0004		
#2	.0001	.0002	-.0045	-.0074	.0013	.0024	.0002		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	199950.	47196.	3016.1	8006.5					
Stddev	515.	73.	1.7	3.4					
%RSD	.25769	.15571	.05562	.04309					
#1	200310.	47248.	3017.3	8009.0					
#2	199580.	47144.	3014.9	8004.1					

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Sample Name: ccv Acquired: 7/2/2014 23:31:19 Type: QC
Method: Accutest1(v205) 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	1.984	2.000	1.991	2.015	2.011	1.962	2.039	2.031	2.439
Stddev	.001	.017	.001	.001	.005	.002	.005	.002	.0003
%RSD	.0668	.8521	.0665	.0598	.2281	.1134	.2458	.0798	.1104
#1	1.985	2.012	1.990	2.014	2.008	1.963	2.036	2.030	.2441
#2	1.983	1.988	1.992	2.016	2.015	1.960	2.043	2.032	.2438
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	1.989	2.044	1.994	2.051	2.025	2.008	1.986	38.97	40.49
Stddev	.004	.004	.004	.002	.004	.000	.002	.08	.11
%RSD	.2134	.1977	.1763	.0937	.1965	.0034	.0876	.2028	.2729
#1	1.986	2.042	1.992	2.050	2.022	2.008	1.987	38.91	40.57
#2	1.992	2.047	1.997	2.053	2.028	2.008	1.984	39.02	40.41
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	40.67	39.56	39.01	39.98	2.035	1.972	1.919	F 4.335	2.022
Stddev	.11	.21	.06	.04	.001	.001	.006	.001	.004
%RSD	.2751	.5418	.1510	.1014	.0563	.0490	.3077	.0197	.1935
#1	40.75	39.71	38.97	39.95	2.036	1.972	1.923	4.335	2.019
#2	40.59	39.41	39.05	40.01	2.034	1.973	1.915	4.334	2.025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value							5.000		
Range							-10.00%		

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Sample Name: ccv Acquired: 7/2/2014 23:31:19 Type: QC
Method: Accutest1(v205) 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	1.956	1.983	1.908	1.958	1.984	1.955	1.965		
Stddev	.033	.003	.013	.002	.003	.001	.002		
%RSD	1.705	.1363	.6770	.1100	.1515	.0487	.1124		
#1	1.979	1.981	1.899	1.957	1.986	1.956	1.966		
#2	1.932	1.985	1.917	1.960	1.981	1.955	1.963		
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	190330.	47039.	2954.4	7721.3					
Stddev	309.	308.	16	2					
%RSD	.16245	.65385	.02118	.00228					
#1	190110.	46821.	2953.9	7721.4					
#2	190550.	47256.	2954.8	7721.2					

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Sample Name: ccb Acquired: 7/2/2014 23:37:33 Type: QC
Method: Accutest1(v205) 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	.0003	.0003	.0002	-.0001	.0001	.0002	-.0001
Stddev	.0001	.0000	.0002	.0002	.0001	.0002	.0000	.0002	.0001
%RSD	87.49	20.66	64.95	58.71	40.78	184.0	8.810	102.2	185.4
#1	.0001	.0001	.0004	.0002	.0001	.0000	.0001	.0000	-.0002
#2	.0003	.0001	.0002	.0004	.0002	-.0002	.0002	.0003	.0000

Check ? High Limit Low Limit
Chk Pass 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	-.0006	.0001	.0001	.0003	-.0024	-.0001	.0043	.0026
Stddev	.0001	.0001	.0006	.0007	.0009	.0012	.0000	.0018	.0003
%RSD	26.29	16.91	645.4	586.7	347.8	49.94	71.39	40.97	9.797
#1	.0003	-.0006	.0005	.0006	.0009	-.0015	-.0001	.0056	.0025
#2	.0004	-.0005	-.0003	-.0004	-.0004	-.0032	.0000	.0031	.0028

Check ? High Limit Low Limit
Chk Pass 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	.0045	.0088	.0273	-.0107	.0012	.0005	.0009	.0016	-.0002
Stddev	.0011	.0085	.0365	.0010	.0006	.0000	.0001	.0011	.0003
%RSD	25.47	96.76	133.6	8.992	50.27	3.953	7.999	66.54	189.6
#1	.0037	.0028	.0531	-.0114	.0016	.0005	.0009	.0024	-.0004
#2	.0053	.0149	.0015	-.0101	.0008	.0005	.0008	.0009	.0001

Check ? High Limit Low Limit
Chk Pass 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: 7/2/2014 23:37:33 Type: QC
Method: Accutest1(v205) 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	.0098	.0004	-.0017	-.0002	.0012
Stddev	.0000	.0004	.0013	.0000	.0000	.0008	.0007
%RSD	5.142	594.4	13.49	8.325	2.225	472.4	58.94
#1	.0001	-.0002	.0107	.0005	-.0016	.0004	.0007
#2	.0001	.0003	.0089	.0004	-.0017	-.0007	.0016

Check ? High Limit Low Limit
Chk Pass 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	199250.	47067.	3065.1	8001.5
Stddev	558.	113.	4.3	9.5
%RSD	.28016	.23953	.13964	.11911
#1	198860.	47147.	3068.2	8008.2
#2	199650.	46988.	3062.1	7994.7

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Sample Name: mp80425-mb1.2 Acquired: 7/2/2014 23:43:45 Type: Unk
Method: Accutest1(v205) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: 2nd cal

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.0001	.0000	.0001	.0001	.0003	.0001	.0000	-.0002	.0003
Stddev	.0000	.000	.0002	.0001	.0002	.0002	.0000	.0000	.0001
%RSD	44.97	6.918	208.9	54.23	63.49	145.8	171.2	2.555	21.77
#1	.0001	.0000	.0000	.0002	.0001	.0003	.0000	-.0002	.0003
#2	.0001	.0000	.0002	.0001	.0004	.0000	.0000	-.0002	.0002

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0009	-.0007	-.0012	-.0006	-.0008	.0006	.0020	.0164
Stddev	.0001	.0001	.0001	.0006	.0005	.0025	.0007	.0086	.0018
%RSD	43.64	12.25	14.84	49.14	75.81	321.6	124.2	439.2	11.26
#1	.0002	.0008	-.0008	-.0008	-.0009	-.0025	.0011	.0081	.0151
#2	.0001	.0009	-.0007	-.0017	-.0003	.0010	.0001	-.0041	.0177

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0052	-.0004	.0201	.0039	.0002	.0000	.0014	.0187	.0001
Stddev	.0005	.0056	.0097	.0000	.0001	.0002	.0002	.0013	.0004
%RSD	10.04	1582.	48.59	.7607	48.04	16030.	13.24	6.812	621.7
#1	.0049	-.0043	.0269	.0039	.0002	.0001	.0015	.0196	-.0002
#2	.0056	.0036	.0132	.0039	.0001	-.0001	.0013	.0178	.0004

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0002	.0029	.0002	.0062	-.0006	.0001
Stddev	.0001	.0003	.0004	.0000	.0018	.0011	.0004
%RSD	113.4	145.0	13.86	5.901	29.06	176.6	247.2
#1	.0001	.0004	.0032	.0002	.0074	-.0013	.0004
#2	.0000	.0000	.0026	.0002	.0049	.0001	-.0001

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	200170.	47535.	3050.3	7987.2
Stddev	266.	227.	1.8	.1
%RSD	.13306	.47674	.05868	.00121
#1	199980.	47695.	3051.6	7987.2
#2	200360.	47375.	3049.0	7987.1

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Sample Name: mp80425-lc1 Acquired: 7/2/2014 23:49:54 Type: Unk
Method: Accutest1(v205) 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	.5089	.5129	.4924	.4971	.5117	.4721	.5185	.5180	.1920
Stddev	.0001	.0006	.0003	.0004	.0001	.0006	.0001	.0000	.0004
%RSD	.0200	.1154	.0551	.0887	.0123	.1279	.0197	.0095	.2147
#1	.5070	.5125	.4922	.4968	.5117	.4717	.5184	.5179	.1923
#2	.5068	.5133	.4926	.4974	.5116	.4726	.5186	.5180	.1917

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4973	.5460	.4940	.5249	.5097	.4912	.4860	4.864	5.702
Stddev	.0014	.0005	.0006	.0000	.0009	.0000	.0001	.006	.002
%RSD	.2724	.0843	.1186	.0089	.1820	.0086	.0122	.1217	.0387
#1	.4964	.5456	.4944	.5249	.5090	.4912	.4859	4.868	5.700
#2	.4983	.5463	.4935	.5249	.5103	.4912	.4860	4.860	5.703

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	5.744	5.455	9.903	10.17	.0038	.4914	.0039	.0292	.0004
Stddev	.006	.006	.011	.01	.0004	.0002	.0004	.0006	.0007
%RSD	.1086	.1121	.1106	.1135	10.05	.0447	10.44	2.146	166.6
#1	5.740	5.451	9.910	10.18	.0036	.4916	.0042	.0287	.0010
#2	5.749	5.459	9.895	10.16	.0041	.4912	.0036	.0296	-.0001

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0002	.5008	.0067	.0000	.0077	.0056	.0007
Stddev	.0000	.0001	.0005	.0000	.0005	.0007	.0004
%RSD	10.37	.0205	7.254	38.02	6.563	12.80	62.24
#1	-.0002	.5009	.0071	.0000	.0080	.0061	.0010
#2	-.0002	.5008	.0064	.0000	.0073	.0051	.0004

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	196680.	47160.	3016.3	7894.2
Stddev	378.	56.	2.4	2.9
%RSD	.19232	.11869	.07818	.03623
#1	196950.	47200.	3014.6	7892.2
#2	196410.	47120.	3018.0	7896.2

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Sample Name: mp80425-s1 Acquired: 7/2/2014 23:55:53 Type: Unk
Method: Accutest1(v205) 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	2.066	.0513	.0517	.4948	.2006	.2396	.5115	.5111	.0492
Stddev	.004	.0001	.0003	.0011	.0004	.0006	.0001	.0014	.0001
%RSD	.1692	.1818	.5226	.2139	.1755	.2424	.0260	.2740	.2521
#1	2.063	.0512	.0515	.4940	.2004	.2392	.5116	.5101	.0493
#2	2.068	.0514	.0519	.4955	.2008	.2400	.5114	.5121	.0491
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.4917	.5361	2.064	2.120	.5130	2.076	.4977	2.027	102.7
Stddev	.0006	.0014	.006	.005	.0017	.008	.0001	.002	.9
%RSD	.1285	.2544	.2947	.2219	.3281	.3712	.0227	.0953	.8812
#1	.4913	.5352	2.059	2.116	.5118	2.071	.4976	2.028	102.1
#2	.4921	.5371	2.068	2.123	.5142	2.082	.4978	2.025	103.4
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	1.115	52.65	27.66	109.8	.0359	.0025	.0013	2.942	-0.012
Stddev	.002	.16	.03	.5	.0004	.0000	.0009	.006	.0006
%RSD	.1495	.2981	.1164	.4378	.9860	.8624	73.10	.2036	47.91
#1	1.114	52.54	27.64	109.4	.0362	.0025	.0019	2.938	-.0008
#2	1.116	52.76	27.68	110.1	.0357	.0025	.0016	2.947	-.0017
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.2582	.0017	.0024	-0.0022	9.072	-0.0023	.00045		
Stddev	.0001	.0001	.0000	.0000	.032	.0008	.004		
%RSD	.0560	6.773	1.059	1.368	.3488	33.06	9.544		
#1	.2583	.0018	.0024	-.0022	9.050	-.0017	.0042		
#2	.2581	.0016	.0024	-.0022	9.095	-.0028	.0048		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	187630.	46515.	2892.8	7500.4					
Stddev	235.	132.	4.5	13.6					
%RSD	.12551	.28464	.15538	.18164					
#1	187460.	46608.	2896.0	7510.0					
#2	187790.	46421.	2889.6	7490.8					

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Sample Name: mp80425-s2 Acquired: 7/3/2014 0:02:03 Type: Unk
Method: Accutest1(v205) 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	2.038	.0508	.0508	.4881	.1984	.2366	.5041	.5035	.0492
Stddev	.003	.0001	.0001	.0002	.0004	.0004	.0008	.0001	.0004
%RSD	.1384	.1399	.1129	.0388	.1971	.1746	.1558	.0165	.8026
#1	2.040	.0509	.0507	.4883	.1987	.2369	.5036	.5035	.0489
#2	2.036	.0508	.0508	.4880	.1981	.2363	.5047	.5036	.0495
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.4860	.5293	2.035	2.092	.5061	2.046	.4925	2.003	102.3
Stddev	.0001	.0003	.004	.001	.0013	.001	.0013	.005	.5
%RSD	.0120	.0590	.2194	.0334	.2497	.0349	.2731	.2401	.5055
#1	.4860	.5291	2.038	2.092	.5052	2.047	.4934	2.000	102.6
#2	.4860	.5296	2.032	2.091	.5070	2.046	.4915	2.007	101.9
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	1.107	52.49	27.34	111.2	.0352	.0023	.0015	2.919	-0.012
Stddev	.001	.04	.02	.6	.0001	.0002	.0006	.003	.0003
%RSD	.0715	.0847	.0616	.5075	.3132	6.790	43.03	.1095	21.42
#1	1.107	52.52	27.35	111.6	.0353	.0022	.0019	2.921	-.0014
#2	1.106	52.46	27.33	110.8	.0352	.0025	.0010	2.916	-.0010
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.2548	.0018	.0011	-0.0023	8.973	-0.0031	.0047		
Stddev	.0002	.0001	.0001	.0000	.018	.0004	.0010		
%RSD	.0759	5.011	7.362	1.940	.1949	14.17	21.81		
#1	.2550	.0019	.0011	-.0022	8.985	-.0034	.0054		
#2	.2547	.0018	.0010	-.0023	8.960	-.0028	.0040		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	187020.	46056.	2891.4	7502.1					
Stddev	646.	7.	2.0	1.3					
%RSD	.34529	.01475	.06757	.01762					
#1	186570.	46051.	2890.0	7501.2					
#2	187480.	46061.	2892.8	7503.1					

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Sample Name: jb70577-1f Acquired: 7/3/2014 0:08:15 Type: Unk
Method: Accutest1(v205) 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	.0814	.0000	.0001	-0.0005	.0004	.0041	.0049	.0007	.0009
Stddev	.0001	.0000	.0002	.0001	.0001	.0001	.0000	.0004	.0001
%RSD	.1595	.393.3	.261.9	13.97	29.66	3.209	.1621	51.62	15.80
#1	.0813	.0000	-.0001	-.0005	.0003	.0042	.0049	.0009	.0008
#2	.0815	.0000	.0002	-.0004	.0005	.0041	.0049	.0004	.0010
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0005	.0037	.0005	.0006	.0003	.0010	.0001	.0852	78.59
Stddev	.0001	.0001	.0003	.0005	.0001	.0003	.0002	.0013	.21
%RSD	23.14	3.741	58.57	74.05	30.44	25.83	184.6	1.475	.2625
#1	.0004	.0036	.0007	.0010	.0004	.0012	.0000	.0861	78.73
#2	.0006	.0038	.0003	.0003	.0003	.0008	.0003	.0843	78.44
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0633	26.99	2.136	85.61	.0345	.0028	.0001	2.895	-0.014
Stddev	.0006	.04	.004	1.77	.0001	.0001	.0004	.001	.0005
%RSD	.9902	.1547	.1644	2.066	.3839	2.793	610.2	.0211	38.90
#1	.0629	27.01	2.138	86.86	.0346	.0027	-.0002	2.895	-.0018
#2	.0637	26.96	2.133	84.36	.0344	.0028	.0004	2.895	-.0010
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.2568	.0016	-0.0035	-0.0010	8.936	-0.0004	.0032		
Stddev	.0002	.0000	.0001	.0001	.011	.0005	.0002		
%RSD	.0799	.0795	3.335	13.64	.1192	127.2	5.641		
#1	.2569	.0016	-.0035	-.0011	8.944	.0000	.0031		
#2	.2567	.0016	-.0036	-.0009	8.929	-.0007	.0034		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	190060.	46474.	2934.4	7616.7					
Stddev	11.	166.	3.0	7.7					
%RSD	.00563	.35662	.10231	.10052					
#1	190050.	46357.	2932.3	7611.3					
#2	190060.	46591.	2936.5	7622.1					

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Sample Name: mp80425-sd1 Acquired: 7/3/2014 0:14:35 Type: Unk
Method: Accutest1(v205) 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	.0817	-0.0002	.0002	-0.0018	-0.0001	.0022	.0049	.0005	.0003
Stddev	.0005	.0000	.0002	.0001	.0001	.0013	.0002	.0001	.0003
%RSD	.5796	19.29	75.39	4.585	151.1	58.93	3.554	17.55	115.2
#1	.0814	-.0002	.0001	-.0017	.0000	.0031	.0050	.0006	.0005
#2	.0820	-.0001	.0003	-.0018	-.0002	.0013	.0048	.0005	.0001
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0013	.0168	-0.0015	-0.0003	-0.0006	-0.0018	-0.0003	.0846	80.05
Stddev	.0010	.0005	.0012	.0008	.0003	.0045	.0010	.0157	.20
%RSD	73.26	2.855	78.04	320.6	50.10	255.1	340.5	18.62	.2504
#1	.0006	.0172	-.0024	-.0008	-.0009	-.0049	-.0010	.0957	80.19
#2	.0020	.0165	-.0007	.0003	-.0004	.0014	.0004	.0734	79.91
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0757	27.42	2.205	86.60	.0329	.0018	-0.0007	2.890	-0.004
Stddev	.0007	.05	.050	.09	.0006	.0002	.0015	.003	.0028
%RSD	.9857	.1746	2.282	.1047	1.908	8.515	212.4	.0877	63.77
#1	.0762	27.46	2.241	86.54	.0333	.0017	-.0018	2.888	-.0064
#2	.0751	27.39	2.170	86.67	.0324	.0019	.0004	2.892	-.0024
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.2548	.0016	-0.0232	-0.0023	8.805	.0008	.0030		
Stddev	.0005	.0011	.0007	.0004	.027	.0028	.0030		
%RSD	.2152	67.42	2.886	17.76	.3057	356.4	100.2		
#1	.2544	.0008	-.0236	-.0021	8.824	-.0012	.0051		
#2	.2552	.0024	-.0227	-.0026	8.786	.0027	.0009		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	196630.	46797.	3032.4	7928.2					
Stddev	159.	36.	4.9	6.5					
%RSD	.08101	.07729	.16264	.08152					
#1	196740.	46771.	3028.9	7923.6					
#2	196520.	46822.	3035.9	7932.8					

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◀ Zoom In ▶
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Sample Name: jb70577-2f Acquired: 7/3/2014 0:20:43 Type: Unk
Method: Accutest1(v205) 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	.0744	.0000	-.0001	-.0001	.0003	.0023	.0088	.0020	.0006
Stddev	.0003	.000	.0001	.0001	.0001	.0002	.0000	.0000	.0001
%RSD	.4163	146.3	74.42	137.7	21.48	9.636	.2560	1.725	22.09
#1	.0742	.0000	-.0002	.0000	.0003	.0022	.0088	.0020	.0007
#2	.0747	.0000	.0000	-.0001	.0004	.0025	.0088	.0019	.0005
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0005	.0021	.0010	.0015	.0005	-.0001	.0002	.0551	72.25
Stddev	.0001	.0000	.0008	.0008	.0006	.0007	.0003	.0015	.03
%RSD	12.52	1.523	86.10	53.61	107.6	514.6	192.8	2.643	.0384
#1	.0006	.0022	.0004	.0021	.0009	.0003	-.0001	.0540	72.23
#2	.0005	.0021	.0016	.0009	.0001	-.0006	.0004	.0561	72.27
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0238	25.30	2.622	84.57	.0324	.0043	-.0014	2.896	-.0016
Stddev	.0002	.01	.013	1.06	.0001	.0000	.0002	.005	.0001
%RSD	.8435	.0454	.4919	1.260	.3469	.5356	11.32	.1903	9.088
#1	.0237	25.31	2.613	85.32	.0323	.0043	-.0013	2.900	-.0015
#2	.0239	25.29	2.631	83.82	.0324	.0043	-.0015	2.892	-.0017
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.2290	.0003	-.0016	-.0010	8.634	.0000	.0035		
Stddev	.0002	.0000	.0005	.0001	.022	.001	.0011		
%RSD	.1000	.9513	29.80	9.337	.2524	7811.	31.38		
#1	.2288	.0003	-.0013	-.0011	8.650	-.0007	.0042		
#2	.2292	.0003	-.0020	-.0009	8.619	.0007	.0027		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	190080.	46678.	2929.6	7611.3					
Stddev	108.	3.	4.3	7.5					
%RSD	.05678	.00717	.14817	.09805					
#1	190150.	46681.	2926.5	7606.0					
#2	190000.	46676.	2932.7	7616.5					

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◀ Zoom In ▶
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Sample Name: jb70577-3f Acquired: 7/3/2014 0:27:00 Type: Unk
Method: Accutest1(v205) 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	.1530	.0000	.0002	.0011	.0003	.0010	.5778	.0058	.0013
Stddev	.0001	.000	.0000	.0001	.0002	.0003	.0002	.0000	.0002
%RSD	.0648	134.3	9.644	6.428	75.03	27.79	.0387	.4905	14.78
#1	.1529	-.0001	.0002	.0011	.0005	.0008	.5780	.0057	.0015
#2	.1530	.0000	.0002	.0012	.0002	.0012	.5777	.0058	.0012
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	-.0001	.0024	.0018	.0013	.0000	.0017	-.0002	.0810	109.3
Stddev	.0000	.0001	.0001	.0004	.0004	.0010	.0002	.0012	.7
%RSD	35.09	3.220	3.319	27.22	828.0	54.86	100.2	1.487	.6064
#1	-.0001	.0023	.0018	.0016	.0003	.0024	-.0001	.0801	109.8
#2	-.0001	.0024	.0018	.0011	-.0002	.0011	-.0003	.0818	108.8
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0783	44.91	2.371	30.42	.0269	.0041	-.0016	6.180	-.0018
Stddev	.0001	.04	.029	.09	.0002	.0000	.0000	.008	.0008
%RSD	.1318	.0785	1.239	.3005	.5860	.0564	2.242	.1287	46.43
#1	.0782	44.88	2.391	30.48	.0268	.0041	-.0017	6.174	-.0012
#2	.0784	44.93	2.350	30.35	.0270	.0041	-.0016	6.185	-.0024
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.2675	.0006	.0006	-.0016	14.80	-.0006	.0066		
Stddev	.0005	.0002	.0005	.0001	.04	.0002	.0003		
%RSD	.2055	29.43	94.15	4.103	.2590	34.67	4.520		
#1	.2679	.0007	.0002	-.0016	14.77	-.0007	.0064		
#2	.2671	.0005	.0010	-.0015	14.82	-.0005	.0069		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	189930.	46446.	2916.6	7602.7					
Stddev	324.	179.	6.5	9.1					
%RSD	.17077	.38481	.22341	.11981					
#1	189700.	46320.	2921.2	7609.1					
#2	190160.	46572.	2912.0	7596.3					

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◀ Zoom In ▶
Zoom Out

Sample Name: jb70577-4f Acquired: 7/3/2014 0:33:13 Type: Unk
Method: Accutest1(v205) 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	.0757	.0000	-.0001	-.0005	.0002	.0013	.0007	.0022	.0005
Stddev	.0000	.000	.0001	.0002	.0001	.0001	.0000	.0001	.0002
%RSD	.0455	50.96	139.9	34.03	23.51	4.399	4.420	6.401	41.89
#1	.0757	.0000	-.0001	-.0004	.0002	.0013	.0007	.0023	.0004
#2	.0757	.0000	.0000	-.0007	.0003	.0013	.0007	.0021	.0006
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0003	.0029	.0002	.0004	.0000	-.0011	-.0008	.0511	74.00
Stddev	.0003	.0000	.0002	.0001	.000	.0015	.0001	.0067	.59
%RSD	75.59	.5332	110.0	13.58	693.8	137.8	9.791	13.14	.7916
#1	.0005	.0029	.0000	.0003	.0000	-.0021	-.0009	.0463	74.41
#2	.0002	.0029	.0003	.0004	-.0001	.0000	-.0007	.0558	73.58
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0053	25.24	2.015	77.19	.0401	.0027	-.0005	2.996	-.0012
Stddev	.0004	.00	.019	.37	.0002	.0000	.0001	.005	.0001
%RSD	8.410	.0170	.9421	.4786	.6165	1.458	15.44	.1644	8.460
#1	.0056	25.25	2.028	76.93	.0403	.0027	-.0006	2.993	-.0011
#2	.0050	25.24	2.001	77.45	.0400	.0027	-.0005	3.000	-.0013
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.2476	.0002	-.0018	-.0010	8.039	-.0006	.0041		
Stddev	.0000	.0003	.0010	.0000	.013	.0002	.0005		
%RSD	.0138	142.0	57.16	1.322	.1563	28.17	11.40		
#1	.2476	.0000	.0025	-.0010	8.030	-.0005	.0038		
#2	.2476	.0004	.0011	-.0010	8.048	-.0008	.0044		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	190500.	46443.	2935.4	7642.9					
Stddev	10.	53.	3.4	5.1					
%RSD	.00503	.11409	.11507	.06675					
#1	190510.	46406.	2937.8	7646.5					
#2	190500.	46481.	2933.0	7639.3					

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◀ Zoom In ▶
Zoom Out

Sample Name: ccv Acquired: 7/3/2014 0:39:30 Type: QC
Method: Accutest1(v205) 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	1.986	2.010	1.990	2.016	2.021	1.965	2.048	2.029	2.444
Stddev	.005	.012	.005	.003	.004	.003	.002	.003	.0001
%RSD	.2448	.6112	.2502	.1477	.1833	.1296	.0779	.1299	.0359
#1	1.983	2.019	1.994	2.019	2.019	1.963	2.047	2.031	.2444
#2	1.990	2.002	1.987	2.014	2.024	1.967	2.049	2.028	.2445
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	2.042	1.998	2.054	2.025	2.008	1.987	39.04	40.70
Stddev	.005	.002	.003	.003	.000	.004	.007	.004	.01
%RSD	.2615	.0974	.1501	.1661	.0164	.2234	.3326	.1042	.0298
#1	1.993	2.043	2.000	2.057	2.026	2.011	1.991	39.01	40.71
#2	2.001	2.040	1.996	2.052	2.025	2.004	1.982	39.07	40.69
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	40.84	39.80	39.07	40.05	2.037	1.972	1.922	F 4.337	2.025
Stddev	.01	.09	.05	.08	.003	.004	.002	.008	.006
%RSD	.0198	.2194	.1331	.1991	.1332	.2046	.0904	.1919	.2767
#1	40.84	39.86	39.03	39.99	2.039	1.975	1.923	4.343	2.029
#2	40.85	39.74	39.11	40.10	2.035	1.969	1.921	4.331	2.021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value								5.000	
Range								-10.00%	

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Sample Name: ccv Acquired: 7/3/2014 0:39:30 Type: QC
Method: Accutest1(v205) 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	1.997	1.988	1.896	1.964	1.984	1.958	1.965
Stddev	.026	.001	.005	.001	.003	.006	.004
%RSD	1.310	.0434	.2431	.0528	.1415	.3076	.2172
#1	2.016	1.988	1.893	1.963	1.986	1.962	1.962
#2	1.979	1.989	1.900	1.964	1.982	1.954	1.968

Check ?
Value
Range

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	190510.	46925.	2957.0	7730.8
Stddev	81.	228.	5.8	10.1
%RSD	.04254	.48666	.19633	.13082
#1	190570.	46763.	2952.9	7723.6
#2	190450.	47086.	2961.1	7737.9

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Sample Name: ccb Acquired: 7/3/2014 0:45:43 Type: QC
Method: Accutest1(v205) 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	.0003	.0002	.0001	.0002	.0001	.0000	.0001
Stddev	.0002	.0000	.0000	.0001	.0002	.0001	.0000	.0000	.0000
%RSD	84.34	28.10	2.633	39.22	291.8	72.42	16.40	32.72	41.09
#1	.0001	.0001	.0003	.0002	.0002	.0002	.0001	.0000	.0001
#2	.0003	.0001	.0003	.0003	.0001	.0001	.0001	.0000	.0001

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	.0005	.0003	.0005	.0004	.0021	.0005	.0040	.0028
Stddev	.0002	.0001	.0003	.0005	.0008	.0010	.0005	.0022	.0000
%RSD	43.21	24.87	105.5	102.4	215.9	46.51	92.58	54.74	1.212
#1	.0005	.0004	.0004	.0008	.0002	.0027	.0008	.0056	.0028
#2	.0003	.0006	.0001	.0001	.0010	.0014	.0002	.0025	.0027

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	.0032	.0001	.0341	.0057	.0012	.0005	.0011	.0021	.0001
Stddev	.0002	.0051	.0049	.0003	.0002	.0001	.0000	.0000	.0000
%RSD	5.780	6301.	14.32	4.799	16.07	22.00	4.204	.2492	62.89
#1	.0033	.0037	.0375	.0055	.0013	.0006	.0011	.0021	.0000
#2	.0031	.0035	.0306	.0059	.0011	.0004	.0011	.0021	.0001

Check ?
High Limit
Low Limit

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Sample Name: ccb Acquired: 7/3/2014 0:45:43 Type: QC
Method: Accutest1(v205) 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	.0090	.0004	.0019	.0001	.0002
Stddev	.0000	.0000	.0018	.0000	.0002	.0006	.0001
%RSD	5.137	31.72	20.45	10.76	11.53	741.7	41.06
#1	.0001	.0001	.0103	.0003	.0018	.0004	.0001
#2	.0001	.0001	.0077	.0004	.0021	.0005	.0003

Check ?
High Limit
Low Limit

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	199960.	47373.	3057.9	7985.8
Stddev	168.	17.	7.0	11.5
%RSD	.08416	.03684	.22773	.14383
#1	200080.	47361.	3053.0	7977.7
#2	199840.	47386.	3062.8	7993.9

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Sample Name: jb70607-2 Acquired: 7/3/2014 0:51:55 Type: Unk
Method: Accutest1(v205) 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	.6224	.0000	.0006	.0006	.0029	.0040	.0019	.0022	.0007
Stddev	.0015	.000	.0000	.0000	.0001	.0000	.0000	.0000	.0002
%RSD	.2453	27.94	1.596	2.912	2.805	.9854	.1801	.9343	25.64
#1	.6214	.0000	.0006	.0006	.0028	.0039	.0019	.0022	.0005
#2	.6235	.0000	.0007	.0006	.0029	.0040	.0019	.0022	.0008

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0028	.0147	.0027	.0003	.0009	.0000	.0008	.1113	85.26
Stddev	.0001	.0002	.0004	.0005	.0004	.001	.0006	.0060	.04
%RSD	4.253	1.333	14.04	193.9	41.52	4360.	76.59	5.349	.0422
#1	.0027	.0146	.0030	.0006	.0006	.0009	.0013	.1071	85.24
#2	.0029	.0148	.0025	.0001	.0012	.0010	.0004	.1155	85.29

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1065	.4776	1.974	25.44	.0348	.0002	.0005	10.05	.0021
Stddev	.0011	.15	.025	.02	.0003	.0001	.0003	.00	.0001
%RSD	1.022	.3073	1.240	.0684	.9913	38.86	59.67	.0478	4.215
#1	.1057	.4787	1.957	25.43	.0346	.0003	.0007	10.06	.0020
#2	.1072	.4766	1.992	25.45	.0351	.0002	.0003	10.05	.0021

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9582	.0012	.0047	.0019	6.877	.0017	.0064
Stddev	.0020	.0002	.0010	.0001	.009	.0001	.0005
%RSD	.2085	18.34	21.81	3.053	.1233	7.330	8.351
#1	.9568	.0011	.0055	.0019	6.871	.0016	.0068
#2	.9597	.0014	.0040	.0019	6.883	.0018	.0060

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	190920.	46841.	2923.5	7624.0
Stddev	364.	275.	2.8	.8
%RSD	.19059	.58664	.09556	.01073
#1	190670.	46646.	2921.6	7623.4
#2	191180.	47035.	2925.5	7624.6

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Sample Name: jb70607-3 Acquired: 7/3/2014 0:58:09 Type: Unk
Method: Accutest1(v205) 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	.1884	.0000	.0003	-.0006	.0018	.0029	.0072	.0006	.0014
Stddev	.0000	.000	.0000	.0000	.0001	.0002	.0000	.0002	.0003
%RSD	.0010	183.6	.8143	8.833	6.560	7.025	.4187	24.96	20.90
#1	.1884	.0000	.0003	-.0005	.0017	.0031	.0072	.0007	.0012
#2	.1884	-.0001	.0003	-.0006	.0019	.0028	.0073	.0005	.0017
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0012	.0090	.0021	-.0004	.0003	.0013	-.0002	.1323	130.2
Stddev	.0001	.0000	.0000	.0007	.0007	.0002	.0005	.0038	.2
%RSD	10.83	.0220	2.015	184.9	242.5	16.16	299.3	2.857	.1623
#1	.0013	.0090	.0021	-.0009	.0007	.0015	-.0005	.1297	130.1
#2	.0011	.0090	.0022	-.0001	-.0002	.0012	.0002	.1350	130.4
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0535	23.33	1.362	75.42	.0334	.0002	-.0002	11.52	-.0026
Stddev	.0007	.01	.011	.75	.0002	.0000	.0003	.01	.0001
%RSD	1.299	.0253	.7738	1.000	.5385	19.77	147.4	.0549	3.340
#1	.0530	23.33	1.354	75.95	.0333	.0002	-.0004	11.52	-.0025
#2	.0540	23.33	1.369	74.88	.0336	.0001	-.0000	11.51	-.0027
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.1544	.0010	.0010	-.0021	12.92	-.0017	.0066		
Stddev	.0005	.0000	.0001	.0000	.00	.0001	.0000		
%RSD	.3452	4.445	5.584	.9881	.0108	7.656	.5261		
#1	.1540	.0010	.0010	-.0021	12.92	-.0018	.0065		
#2	.1547	.0009	.0009	-.0021	12.92	-.0016	.0066		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	188720.	46505.	2897.4	7538.2					
Stddev	69.	59.	1.4	1.3					
%RSD	.03642	.12603	.04802	.01722					
#1	188680.	46464.	2896.4	7539.1					
#2	188770.	46547.	2898.4	7537.3					

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Sample Name: jb70607-4 Acquired: 7/3/2014 1:04:26 Type: Unk
Method: Accutest1(v205) 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	.0000	.0002	.0000	.0000	-.0002	.0002
Stddev	.0000	.0000	.0000	.000	.0005	.000	.000	.0001	.0000
%RSD	52.83	59.18	34.25	5749.	208.9	164.0	246.6	67.23	18.11
#1	.0001	-.0001	.0001	.0000	.0006	-.0001	.0000	-.0001	.0002
#2	.0000	.0000	.0002	.0000	-.0001	.0000	.0000	-.0002	.0002
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0002	.0011	-.0013	-.0013	-.0005	.0000	.0004	.0028	.0067
Stddev	.0002	.0000	.0001	.0007	.0002	.002	.0001	.0001	.0004
%RSD	88.15	1.472	9.134	55.70	45.25	5351.	23.70	3.258	5.344
#1	.0001	.0011	-.0013	-.0008	-.0006	-.0011	.0003	.0029	.0070
#2	.0003	.0011	-.0012	-.0018	-.0003	.0011	.0005	.0027	.0065
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0034	.0020	.0075	.0044	.0000	-.0002	-.0003	.0152	.0001
Stddev	.0002	.0040	.0025	.0028	.000	.0001	.0003	.0003	.0004
%RSD	6.656	197.7	33.72	63.55	1037.	74.40	115.4	1.765	431.0
#1	.0033	.0048	.0057	.0064	.0003	-.0002	.0000	.0154	.0004
#2	.0036	-.0008	.0092	.0024	-.0003	-.0001	-.0005	.0150	-.0002
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0000	.0000	-.0030	-.0002	.0017	-.0007	.0004		
Stddev	.0000	.000	.0000	.0000	.0007	.0002	.0005		
%RSD	66.82	337.7	1.459	20.45	38.03	30.22	145.4		
#1	.0000	-.0001	-.0031	-.0001	.0013	-.0005	.0008		
#2	.0000	.0000	-.0030	-.0002	.0022	-.0008	.0000		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	200270.	47520.	3047.1	7981.0					
Stddev	603.	126.	10.1	24.7					
%RSD	.30111	.26502	.33024	.30951					
#1	199840.	47431.	3040.0	7963.6					
#2	200690.	47609.	3054.2	7998.5					

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Sample Name: jb70607-2f Acquired: 7/3/2014 1:10:37 Type: Unk
Method: Accutest1(v205) 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	.6128	.0000	.0007	-.0007	.0016	.0033	.0002	.0014	.0011
Stddev	.0007	.000	.0000	.0002	.0001	.0002	.0000	.0004	.0000
%RSD	.1169	24.22	.1544	31.96	9.300	4.721	5.469	25.97	.7554
#1	.6123	.0000	.0007	-.0005	.0015	.0035	.0002	.0016	.0011
#2	.6133	-.0001	.0007	-.0009	.0017	.0032	.0002	.0011	.0011
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0026	.0140	.0022	-.0004	.0001	.0013	-.0006	.0554	85.27
Stddev	.0000	.0001	.0003	.0002	.0003	.0008	.0001	.0006	.81
%RSD	.7503	.8213	13.71	49.77	409.8	60.10	10.44	1.130	.9455
#1	.0026	.0139	.0024	-.0005	-.0001	.0019	-.0005	.0558	85.84
#2	.0026	.0141	.0020	-.0002	.0003	.0008	-.0006	.0549	84.70
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0205	47.39	1.935	25.08	.0340	.0000	-.0002	9.825	-.0018
Stddev	.0007	.06	.004	.07	.0003	.0002	.0009	.012	.0006
%RSD	3.546	.1320	.1972	.2712	.9686	1438.	378.5	.1237	35.97
#1	.0211	47.43	1.932	25.04	.0342	-.0001	-.0009	9.833	-.0022
#2	.0200	47.34	1.938	25.13	.0338	.0001	.0004	9.816	-.0013
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.9456	.0005	-.0019	-.0021	6.793	-.0010	.0056		
Stddev	.0018	.0002	.0007	.0001	.013	.0005	.0000		
%RSD	.1851	38.46	33.98	3.026	.1908	53.16	.1497		
#1	.9443	.0004	-.0015	-.0021	6.802	-.0006	.0056		
#2	.9468	.0006	-.0024	-.0020	6.784	-.0014	.0056		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	191420.	46813.	2938.4	7660.1					
Stddev	241.	159.	3.4	3.0					
%RSD	.12587	.34048	.11575	.03862					
#1	191250.	46700.	2936.0	7658.0					
#2	191590.	46926.	2940.8	7662.2					

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Sample Name: jb70607-3f Acquired: 7/3/2014 1:16:51 Type: Unk
Method: Accutest1(v205) 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	.1889	.0000	.0002	-.0006	.0015	.0047	-.0003	.0010	.0013
Stddev	.0005	.000	.0002	.0000	.0001	.0000	.0000	.0001	.0001
%RSD	.2634	88.41	100.3	8.301	5.118	1.063	2.471	9.654	7.022
#1	.1885	.0000	.0003	-.0006	.0015	.0047	-.0003	.0011	.0013
#2	.1892	.0000	.0000	-.0005	.0016	.0047	-.0003	.0009	.0014
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0012	.0176	.0020	-.0002	.0009	.0019	-.0001	.0849	132.1
Stddev	.0000	.0001	.0005	.0003	.0000	.0002	.0006	.0045	.4
%RSD	1.746	.8035	23.79	135.4	2.832	8.110	633.6	5.292	.2750
#1	.0012	.0177	.0016	.0000	.0009	.0018	.0003	.0881	131.8
#2	.0012	.0175	.0023	-.0004	.0010	.0020	-.0005	.0817	132.4
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0217	23.70	1.215	69.74	.0319	.0000	-.0012	11.41	-.0030
Stddev	.0006	.08	.006	.37	.0001	.000	.0000	.07	.0003
%RSD	2.894	.3243	.5228	.5347	.4129	306.0	3.822	.5887	8.804
#1	.0213	23.64	1.220	69.48	.0318	.0000	-.0012	11.36	-.0029
#2	.0222	23.75	1.211	70.01	.0320	-.0001	-.0012	11.46	-.0032
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.1553	.0000	-.0030	-.0024	12.32	-.0011	.0074		
Stddev	.0011	.000	.0005	.0001	.09	.0002	.0000		
%RSD	.7217	310.3	17.33	3.176	.7128	15.36	.1110		
#1	.1545	.0000	-.0033	-.0023	12.26	-.0010	.0074		
#2	.1561	-.0001	-.0026	-.0024	12.39	-.0012	.0074		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	190300.	46093.	2910.7	7572.8					
Stddev	1313.	51.	15.5	41.5					
%RSD	.68997	.11123	.53255	.54839					
#1	189370.	46129.	2921.7	7601.9					
#2	191230.	46056.	2899.7	7543.2					

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Sample Name: jb70173-2f Acquired: 7/3/2014 1:23:04 Type: Unk
Method: Accutest1(v205) 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	.7877	.0000	.0000	-.0005	.0008	.0008	.0196	.0002	.0007
Stddev	.0022	.000	.0001	.0001	.0001	.0003	.0001	.0001	.0003
%RSD	.2820	24.16	284.2	30.28	11.15	36.89	.3127	54.03	36.74
#1	.7893	.0000	.0000	-.0006	.0008	.0006	.0196	.0001	.0005
#2	.7861	.0000	.0001	-.0004	.0007	.0010	.0196	.0003	.0009
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0014	.0014	.0010	.0008	-.0007	-.0014	-.0007	.0476	65.26
Stddev	.0001	.0001	.0001	.0000	.0000	.0001	.0002	.0048	.05
%RSD	6.465	5.681	15.56	5.411	1.937	8.781	33.06	10.01	.0755
#1	.0014	.0015	.0011	.0008	-.0006	-.0015	-.0009	.0510	65.22
#2	.0015	.0014	.0008	.0008	-.0007	-.0013	-.0006	.0443	65.29
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0132	27.09	6.803	140.9	.0359	.0023	-.0013	4.353	-.0011
Stddev	.0000	.08	.020	1.5	.0004	.0002	.0008	.007	.0002
%RSD	.0820	.3030	.2990	1.049	1.019	6.770	58.83	.1566	16.96
#1	.0132	27.03	6.818	139.9	.0356	.0022	-.0008	4.348	-.0012
#2	.0132	27.14	6.789	142.0	.0362	.0024	-.0019	4.358	-.0010
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	1.741	.0000	.0331	-.0014	4.404	-.0013	.0314		
Stddev	.018	.000	.0008	.0001	.005	.0004	.0006		
%RSD	1.034	465.9	2.539	5.342	.1135	35.55	1.845		
#1	1.728	.0001	.0325	-.0014	4.400	-.0009	.0318		
#2	1.753	-.0001	.0337	-.0013	4.407	-.0016	.0310		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	188580.	46282.	2914.9	7544.8					
Stddev	40.	77.	6.2	9.0					
%RSD	.02143	.16534	.21193	.11869					
#1	188550.	46336.	2919.3	7551.2					
#2	188610.	46228.	2910.6	7538.5					

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Sample Name: jb70173-3f Acquired: 7/3/2014 1:29:21 Type: Unk
Method: Accutest1(v205) 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	.7717	-.0001	.0000	-.0004	.0002	.0009	.0009	.2342	.0003
Stddev	.0011	.0000	.0000	.0002	.0001	.0001	.0001	.0002	.0002
%RSD	.1399	19.57	19.65	42.24	31.02	13.33	.1008	6.627	38.63
#1	.7724	-.0001	.0000	-.0006	.0002	.0009	.2344	.0003	.0007
#2	.7709	.0000	.0000	-.0003	.0003	.0008	.2341	.0003	.0004
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0008	.0006	.0115	-.0008	.0001	-.0003	.0000	.0360	39.32
Stddev	.0001	.0000	.0003	.0000	.0002	.0004	.000	.0100	.06
%RSD	11.63	7.673	2.491	5.983	145.2	158.4	298.5	27.87	.1456
#1	.0009	.0007	.0113	-.0009	.0003	-.0006	.0000	.0289	39.28
#2	.0008	.0006	.0117	-.0008	.0000	.0000	.0000	.0431	39.36
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0215	7.686	1.537	110.9	.0471	.0016	-.0008	10.33	-.0019
Stddev	.0009	.018	.018	.9	.0002	.0000	.0007	.05	.0004
%RSD	4.008	.2344	1.175	.7684	.3517	.2785	84.38	.5090	18.71
#1	.0221	7.674	1.549	110.3	.0473	.0016	-.0013	10.37	-.0016
#2	.0209	7.699	1.524	111.5	.0470	.0016	-.0003	10.29	-.0021
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.8034	.0001	.0075	-.0024	8.613	-.0008	.0148		
Stddev	.0011	.0001	.0004	.0001	.054	.0006	.0001		
%RSD	.1382	75.24	5.068	2.323	.6317	77.41	.7023		
#1	.8042	.0002	.0073	-.0024	8.651	-.0013	.0147		
#2	.8026	.0001	.0078	-.0025	8.574	-.0004	.0149		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	191440.	46708.	2975.6	7730.2					
Stddev	166.	129.	14.7	31.6					
%RSD	.08684	.27618	.49552	.40905					
#1	191320.	46799.	2965.1	7707.9					
#2	191550.	46617.	2986.0	7752.6					

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Sample Name: jb70173-4f Acquired: 7/3/2014 1:35:34 Type: Unk
Method: Accutest1(v205) 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	.0393	-.0001	.0000	.0005	.0001	.0008	1.942	.0013	
Stddev	.0000	.0000	.000	.0000	.0001	.0000	.001	.0001	
%RSD	.0610	5.582	521.2	6.136	152.4	1.013	.0497	5.754	
#1	.0393	-.0001	.0000	.0005	.0000	.0008	1.941	.0013	
#2	.0393	-.0001	.0000	.0006	.0002	.0008	1.942	.0012	
Elem	Ag3280	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	
Avg	.0002	-.0003	.0043	.0010	F -.0026	.0006	-.0003	.0006	
Stddev	.0000	.0000	.0000	.0005	.0006	.0004	.0025	.0001	
%RSD	17.19	12.88	.7190	56.77	21.27	65.51	781.4	23.95	
#1	.0002	-.0003	.0043	.0014	-.0030	.0008	.0015	.0005	
#2	.0002	-.0002	.0043	.0006	-.0022	.0003	-.0021	.0007	
Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	
Avg	.0365	38.41	1246	11.53	1.410	3.032	1.244	.0005	
Stddev	.0059	.20	.0003	.07	.013	.011	.0004	.0000	
%RSD	16.20	.5318	.2580	.5882	.9285	.3748	.3158	3.900	
#1	.0406	38.55	.1248	11.58	1.401	3.040	.1241	.0005	
#2	.0323	38.26	.1243	11.48	1.420	3.024	.1247	.0005	
Elem	Pd3404	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	
Avg	.0003	4.146	-.0010	1354	.0001	.0208	-.0010	7.413	
Stddev	.0001	.001	.0002	.0002	.0002	.0008	.0001	.002	
%RSD	24.84	.0301	24.30	.1140	217.7	3.669	5.376	.0214	
#1	.0002	4.145	-.0012	.1355	.0002	.0214	-.0009	7.414	
#2	.0003	4.147	-.0008	.1353	-.0001	.0203	-.0010	7.412	
Elem	Bi2230	Li6707							
Avg	-.0009	.0010							
Stddev	.0006	.0001							
%RSD	72.51	6.307							
#1	-.0004	.0010							
#2	-.0013	.0011							

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Sample Name: jb70173-4f Acquired: 7/3/2014 1:35:34 Type: Unk
Method: Accutest1(v205) 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	197060.	47268.	3005.7	7869.7					
Stddev	39.	365.	2.5	3.5					
%RSD	.01955	.77241	.08237	.04433					
#1	197040.	47009.	3007.5	7872.2					
#2	197090.	47526.	3004.0	7867.3					

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Sample Name: jb70173-5f Acquired: 7/3/2014 1:41:40 Type: Unk
Method: Accutest1(v205) 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	.7385	-0.001	.0000	-0.0005	.0010	.0010	.0191	.0002	.0007
Stddev	.0004	.0000	.0000	.0003	.0002	.0004	.0001	.0000	.0001
%RSD	.0548	11.72	222.7	47.48	23.59	40.81	.3510	4.479	19.54

#1	.7383	-.0001	.0000	-.0007	.0009	.0007	.0192	.0002	.0008
#2	.7388	-.0001	.0000	-.0004	.0012	.0013	.0191	.0002	.0006

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0012	.0012	.0008	.0026	-0.0003	-0.0005	-0.0006	.0482	61.16
Stddev	.0001	.0000	.0003	.0011	.0006	.0005	.0003	.0027	.26
%RSD	10.09	3.644	35.56	42.88	247.8	88.11	48.72	5.667	.4267

#1	.0013	.0012	.0010	.0018	.0002	-.0008	-.0008	.0501	60.98
#2	.0011	.0011	.0006	.0034	-.0007	-.0002	-.0004	.0462	61.35

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0140	25.36	6.384	131.5	.0330	.0015	-0.0004	4.085	-0.0019
Stddev	.0002	.12	.013	1.5	.0002	.0001	.0004	.007	.0002
%RSD	1.221	.4679	.2005	1.148	.7456	5.683	88.31	.1630	9.609

#1	.0141	25.28	6.375	130.5	.0329	.0014	-.0002	4.080	-.0020
#2	.0139	25.44	6.393	132.6	.0332	.0015	-.0007	4.090	-.0018

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Avg	1.622	-0.0001	-0.0045	-0.0014	4.149	-0.0008	.0291
Stddev	.000	.0004	.0008	.0000	.012	.0006	.0012
%RSD	.0094	769.7	18.26	1.348	.2781	78.11	3.982

#1	1.622	-.0003	-.0039	-.0015	4.141	-.0012	.0300
#2	1.622	.0002	-.0051	-.0014	4.157	-.0003	.0283

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	188660.	46573.	2925.1	7574.9
Stddev	201.	181.	5.0	.4
%RSD	.10669	.38834	.16998	.00585

#1	188510.	46700.	2928.6	7574.6
#2	188800.	46445.	2921.6	7575.3

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Sample Name: ccv Acquired: 7/3/2014 1:48:01 Type: QC
Method: Accutest1(v205) 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	2.023	1.991	1.815	1.990	1.988	1.976	1.993
Stddev	.014	.003	.004	.002	.000	.002	.002
%RSD	.7105	.1446	.2392	.1180	.0178	.1014	.0814

#1	2.013	1.989	1.812	1.989	1.988	1.977	1.992
#2	2.033	1.993	1.818	1.992	1.988	1.974	1.994

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	190820.	46815.	2964.4	7739.5
Stddev	235.	77.	9	.7
%RSD	.12328	.16494	.03193	.00931

#1	190990.	46760.	2963.7	7739.0
#2	190660.	46870.	2965.1	7740.0

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Sample Name: ccv Acquired: 7/3/2014 1:48:01 Type: QC
Method: Accutest1(v205) 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	2.013	2.046	2.001	2.035	2.027	1.975	2.043	2.047	2.469
Stddev	.001	.011	.004	.001	.005	.005	.017	.002	.0001
%RSD	.0384	.5501	.1803	.0553	.2474	.2522	.8217	.0767	.0344

#1	2.012	2.054	2.004	2.036	2.023	1.972	2.054	2.048	2.469
#2	2.013	2.038	1.999	2.034	2.031	1.979	2.031	2.045	2.470

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	2.058	1.992	2.071	2.036	2.020	1.998	39.41	40.99
Stddev	.003	.003	.004	.003	.003	.007	.003	.06	.03
%RSD	.1310	.1677	.1968	.1615	.1301	.3669	.1641	.1452	.0799

#1	1.995	2.060	1.995	2.074	2.038	2.025	2.000	39.37	41.01
#2	1.999	2.055	1.989	2.069	2.034	2.014	1.996	39.45	40.97

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	41.02	40.17	39.46	40.23	2.007	2.002	1.947	4.980	2.029
Stddev	.03	.10	.08	.04	.000	.002	.001	.003	.002
%RSD	.0622	.2414	.1951	.1013	.0198	.1172	.0577	.0514	.1009

#1	41.04	40.24	39.41	40.20	2.007	2.004	1.948	4.982	2.031
#2	41.00	40.10	39.52	40.26	2.006	2.000	1.946	4.978	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: ccb Acquired: 7/3/2014 1:54:17 Type: QC
Method: Accutest1(v205) 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	.0000	.0000	.0001	-0.0003	.0000	-0.0001	.0001
Stddev	.000	.000	.0000	.000	.0000	.0001	.000	.0001	.0001
%RSD	326.5	5.117	233.6	171.7	18.37	15.83	77.91	53.20	161.4

#1	.0000	.0000	.0000	-.0001	.0001	-.0003	.0000	-.0001	.0001
#2	.0000	.0000	.0000	.0000	.0001	-.0004	-.0001	-.0002	.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	.0002	-0.0004	-0.0009	-0.0005	-0.0002	-0.0014	-0.0002	-0.0056	-0.0013
Stddev	.0001	.0001	.0006	.0004	.0000	.0008	.0006	.0058	.0004
%RSD	31.13	15.86	64.18	68.48	12.31	53.84	234.6	103.4	32.06

#1	.0002	-.0004	-.0013	-.0008	-.0003	-.0019	-.0006	-.0097	-.0016
#2	.0003	-.0003	-.0005	-.0003	-.0002	-.0009	.0002	-.0015	-.0010

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	-0.0067	.0296	-0.0071	.0006	.0002	.0004	.0005	-0.0002
Stddev	.0006	.0000	.0146	.0019	.0002	.0001	.0003	.0003	.0006
%RSD	103.9	.4008	49.33	26.43	30.43	37.77	73.07	72.10	332.4

#1	-.0009	-.0067	.0399	-.0084	.0007	.0002	.0006	.0002	.0002
#2	-.0001	-.0067	.0192	-.0058	.0004	.0003	.0002	.0007	-.0006

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: 7/3/2014 1:54:17 Type: QC
Method: Accutest1(v205) 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	-0.0002	.0012	-0.0001	-0.0024	.0003	-0.0005
Stddev	.0000	.0000	.0013	.0001	.0010	.0008	.0001
%RSD	91.74	14.20	104.2	53.49	40.15	235.8	23.09
#1	.0000	-0.0002	.0021	-0.0001	-0.0031	-0.0002	-0.0006
#2	.0000	-0.0002	.0003	-0.0002	-0.0017	.0009	-0.0004

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	200560.	47289.	3075.8	8043.6
Stddev	82.	30.	2.5	6.7
%RSD	.04085	.06394	.07993	.08334
#1	200500.	47268.	3074.1	8038.8
#2	200620.	47310.	3077.6	8048.3

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Sample Name: mp80388-mb1 Acquired: 7/3/2014 2:00:29 Type: Unk
Method: Accutest1(v205) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: not due

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.0001	.0000	.0002	.0005	.0608	.0008	.0044	.0306	.0002
Stddev	.0001	.000	.0001	.0001	.0004	.0001	.0000	.0010	.0000
%RSD	190.3	38.14	48.65	11.16	.6582	9.043	.8692	3.180	11.28

#1	.0002	.0000	.0003	.0005	.0611	.0008	.0044	.0300	.0002
#2	.0000	-0.0001	.0002	.0005	.0605	.0009	.0044	.0313	.0003

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0004	.0028	-0.0007	-0.0009	-0.0003	-0.0010	.0008	.0037	.0253
Stddev	.0000	.0001	.0006	.0002	.0002	.0002	.0003	.0019	.0004
%RSD	9.429	4.834	87.25	25.42	59.21	15.58	38.66	52.38	1.695

#1	.0004	.0027	-0.0012	-0.0010	-0.0004	-0.0011	.0011	.0050	.0250
#2	.0004	.0029	-0.0003	-0.0007	-0.0002	-0.0009	.0006	.0023	.0256

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.2652	.0040	.0214	-0.0004	.0004	.0007	.0002	.0075	-0.0003
Stddev	.0037	.0007	.0096	.0016	.0000	.0000	.0005	.0002	.0000
%RSD	1.380	16.68	45.14	437.7	9.022	5.293	213.4	3.174	2.113

#1	.2678	.0044	.0145	.0008	.0004	.0007	-0.0001	.0076	-0.0003
#2	.2626	.0035	.0282	-0.0015	.0004	.0007	.0006	.0073	-0.0003

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Avg	.0000	.0001	-0.0012	-0.0003	.0002	-0.0006	-0.0001
Stddev	.0000	.0003	.0003	.0000	.0003	.0004	.0009
%RSD	193.2	433.6	21.50	14.89	138.6	60.80	847.2

#1	.0000	-0.0002	-0.0014	-0.0003	.0004	-0.0009	-0.0007
#2	.0000	.0003	-0.0010	-0.0003	.0000	-0.0004	.0005

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	200470.	47347.	3050.7	7983.0
Stddev	382.	252.	4.5	6.3
%RSD	.19045	.53299	.14817	.07897
#1	200200.	47169.	3047.5	7978.6
#2	200740.	47525.	3053.9	7987.5

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Sample Name: mp80388-lc1 Acquired: 7/3/2014 2:06:37 Type: Unk
Method: Accutest1(v205) 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	.5069	.5129	.4904	.4970	.5097	.4715	.5175	.5170	.1918
Stddev	.0001	.0007	.0002	.0009	.0002	.0016	.0003	.0009	.0001
%RSD	.0284	.1397	.0308	.1810	.0422	.3362	.0560	.1722	.0610

#1	.5068	.5134	.4903	.4964	.5099	.4726	.5177	.5164	.1917
#2	.5070	.5123	.4905	.4977	.5096	.4704	.5173	.5176	.1919

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.4960	.5486	.4933	.5251	.5095	.4895	.4857	4.855	5.722
Stddev	.0004	.0016	.0000	.0004	.0014	.0004	.0008	.012	.001
%RSD	.0879	.2862	.0015	.0816	.2678	.0882	.1725	.2522	.0149

#1	.4963	.5475	.4933	.5248	.5085	.4892	.4851	4.864	5.722
#2	.4957	.5497	.4933	.5254	.5104	.4898	.4863	4.847	5.723

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	5.734	5.436	9.888	10.12	.0024	.4901	.0038	.0487	.0003
Stddev	.008	.015	.021	.00	.0002	.0001	.0007	.0001	.0005
%RSD	.1321	.2712	.2152	.0094	7.781	.0264	17.01	.2615	193.6

#1	5.740	5.446	9.873	10.12	.0025	.4902	.0043	.0488	.0007
#2	5.729	5.426	9.903	10.12	.0022	.4900	.0034	.0486	-0.0001

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Avg	-0.0002	.4997	.0040	.0000	.0050	.0053	.0000
Stddev	.0000	.0003	.0000	.0000	.0000	.0004	.0003
%RSD	19.78	.0556	.4050	3712.	.9386	6.852	749.1

#1	-0.0002	.4999	.0040	.0000	.0051	.0050	.0002
#2	-0.0002	.4995	.0040	.0000	.0050	.0055	-0.0001

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	197180.	47236.	3012.9	7887.6
Stddev	206.	52.	5.3	6.1
%RSD	.10438	.10969	.17443	.07731
#1	197330.	47200.	3009.1	7883.3
#2	197040.	47273.	3016.6	7891.9

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Sample Name: jb70036-2 Acquired: 7/3/2014 2:12:36 Type: Unk
Method: Accutest1(v205) 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	.0001	.0003	.0005	-0.0001	-0.0001	-0.0001
Stddev	.0000	.000	.0001	.0002	.0002	.0001	.0000	.0000	.0001
%RSD	33.60	39.50	128.7	249.2	65.00	18.07	29.14	30.22	102.6

#1	.0000	.0000	.0002	.0002	.0004	.0004	-0.0001	-0.0001	.0000
#2	.0001	.0000	.0000	-0.0001	.0002	.0005	-0.0001	-0.0001	-0.0002

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0002	.0012	-0.0014	-0.0008	.0006	-0.0013	.0003	-0.0014	.0096
Stddev	.0000	.0000	.0006	.0004	.0005	.0012	.0000	.0037	.0006
%RSD	17.09	.5507	40.97	53.96	76.96	88.80	3.029	272.1	5.919

#1	.0001	.0012	-0.0010	-0.0011	.0003	-0.0005	.0003	-0.0040	.0092
#2	.0002	.0012	-0.0018	-0.0005	.0010	-0.0022	.0003	.0013	.0100

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0031	-0.0063	.0315	-0.0048	-0.0002	.0000	.0014	.0223	-0.0005
Stddev	.0011	.0113	.0089	.0004	.0001	.000	.0000	.0004	.0002
%RSD	33.78	180.3	28.22	7.332	55.23	418.3	2.581	1.764	39.00

#1	.0039	-0.0143	.0252	-0.0050	-0.0003	-0.0001	.0013	.0226	-0.0006
#2	.0024	.0017	.0378	-0.0046	-0.0001	.0001	.0014	.0220	-0.0004

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Avg	.0000	.0000	-0.0043	-0.0002	.0025	-0.0007	-0.0003
Stddev	.0000	.000	.0003	.0001	.0001	.0000	.0001
%RSD	193.2	667.1	6.734	29.26	4.199	2.132	34.58

#1	.0000	.0001	-0.0041	-0.0002	.0026	-0.0007	-0.0002
#2	.0000	-0.0001	-0.0045	-0.0001	.0024	-0.0007	-0.0004

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	201010.	47776.	3058.4	8013.1
Stddev	306.	44.	2.0	1.6
%RSD	.15220	.09197	.06560	.01991
#1	200790.	47745.	3057.0	8012.0
#2	201230.	47807.	3059.8	8014.3

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Sample Name: jb70366-8 Acquired: 7/3/2014 2:18:45 Type: Unk
Method: Accutest1(v205) 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	-0.0001	.0001	-0.0002	.0002	.0000	.0000	-0.0001	.0003
Stddev	.0001	.0000	.0001	.0001	.0001	.0001	.000	.0002	.0002
%RSD	154.4	19.86	123.6	82.85	32.81	153.7	1790.	154.4	63.61
#1	.0000	-0.0001	.0000	-0.0003	.0002	.0000	.0000	.0000	.0002
#2	.0001	-0.0001	.0002	-0.0001	.0003	.0001	-0.0001	-0.0002	.0004
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0002	.0030	-0.0010	-0.0011	-0.0002	-0.0011	.0005	.0028	.0244
Stddev	.0002	.0000	.0003	.0003	.0013	.0008	.0001	.0010	.0011
%RSD	87.35	.5117	25.41	24.50	754.6	76.12	27.45	36.40	4.325
#1	.0004	.0030	-0.0012	-0.0009	-0.0011	-0.0017	.0006	.0021	.0237
#2	.0001	.0030	-0.0009	-0.0012	.0007	-0.0005	.0004	.0035	.0252
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0077	-0.0044	.0207	-0.0053	-0.0002	-0.0002	.0002	.0243	-0.0004
Stddev	.0001	.0081	.0244	.0068	.0001	.0001	.0001	.0000	.0000
%RSD	.9463	183.1	118.1	129.6	44.05	32.73	53.57	.1264	9.584
#1	.0076	.0013	.0034	-0.0004	-0.0003	-0.0002	.0003	.0243	-0.0004
#2	.0077	-0.0102	.0379	-0.0101	-0.0002	-0.0003	.0001	.0243	-0.0005
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0000	.0000	-0.0044	-0.0002	.0010	-0.0006	-0.0003		
Stddev	.000	.000	.0005	.0001	.0004	.0002	.0008		
%RSD	96.32	222.4	10.46	35.36	45.41	27.17	237.4		
#1	.0000	-0.0001	-0.0041	-0.0001	.0013	-0.0007	-0.0009		
#2	.0000	.0000	-0.0047	-0.0002	.0007	-0.0005	.0002		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	201150.	47452.	3066.5	8016.5					
Stddev	299.	168.	4.8	5.8					
%RSD	.14856	.35409	.15716	.07201					
#1	201360.	47571.	3063.1	8012.4					
#2	200940.	47334.	3069.9	8020.5					

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Sample Name: jb70517-3 Acquired: 7/3/2014 2:24:54 Type: Unk
Method: Accutest1(v205) 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	-0.0001	.0003	.0000	.0004	-0.0001	.0000
Stddev	.0001	.000	.0001	.0001	.0002	.000	.0000	.0000	.0001
%RSD	15.04	23.70	78.76	139.4	50.26	122.3	6.206	14.06	435.4
#1	.0005	.0000	.0000	-0.0001	.0004	.0000	.0004	-0.0002	.0001
#2	.0004	.0000	.0002	.0000	.0002	.0000	.0003	-0.0001	.0000
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0003	.0033	-0.0011	-0.0010	-0.0009	-0.0002	.0006	-0.0003	.1204
Stddev	.0000	.0001	.0003	.0004	.0005	.0002	.0004	.0022	.0024
%RSD	9.656	3.063	31.37	35.50	58.06	107.4	66.14	663.5	2.035
#1	.0003	.0034	-0.0008	-0.0013	-0.0012	-0.0004	.0009	.0012	.1221
#2	.0003	.0032	-0.0013	-0.0008	-0.0005	-0.0001	.0003	-0.0018	.1186
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0031	.0181	.0309	.4295	.0015	.0000	.0003	.2274	.0001
Stddev	.0009	.0011	.0062	.0079	.0002	.000	.0002	.0010	.0006
%RSD	27.39	5.893	20.14	1.835	14.55	287.9	64.81	.4538	648.7
#1	.0025	.0189	.0353	.4239	.0013	.0000	.0002	.2281	.0005
#2	.0037	.0174	.0265	.4351	.0016	-0.0001	.0005	.2267	-0.0003
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0001	.0001	-0.0046	-0.0003	.0020	-0.0009	-0.0001		
Stddev	.0000	.0003	.0003	.0001	.0006	.0010	.0005		
%RSD	6.293	354.8	5.500	21.27	31.38	109.0	936.1		
#1	.0001	-0.0001	-0.0048	-0.0004	.0024	-0.0017	.0003		
#2	.0001	.0003	-0.0044	-0.0003	.0015	-0.0002	-0.0004		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	200590.	47521.	3075.5	8039.9					
Stddev	25.	103.	6.3	15.2					
%RSD	.01228	.21591	.20471	.18899					
#1	200580.	47594.	3071.1	8029.1					
#2	200610.	47449.	3080.0	8050.6					

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Sample Name: jb70517-4 Acquired: 7/3/2014 2:31:01 Type: Unk
Method: Accutest1(v205) 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	-0.0001	.0004	.0001	.0004	.0000	-0.0004
Stddev	.0000	.000	.0000	.0002	.0000	.0000	.0000	.000	.0004
%RSD	1.300	27.48	7.145	191.3	2.263	69.18	1.582	414.3	93.66
#1	.0005	.0000	.0001	.0000	.0004	.0001	.0004	.0000	-0.0001
#2	.0005	.0000	.0001	-0.0002	.0004	.0000	.0004	-0.0001	-0.0007
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0002	.0035	-0.0008	-0.0007	.0000	-0.0003	.0002	.0045	.1127
Stddev	.0002	.0001	.0002	.0008	.001	.0007	.0004	.0001	.0001
%RSD	127.7	3.831	23.80	105.9	1844.	218.0	206.1	1.356	.1111
#1	.0000	.0036	-0.0010	-0.0013	.0005	.0002	.0004	.0046	.1126
#2	.0003	.0034	-0.0007	-0.0002	-0.0005	-0.0008	-0.0001	.0045	.1128
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0034	.0170	.0210	.4171	.0014	-0.0002	.0003	.1971	.0002
Stddev	.0006	.0013	.0040	.0038	.0001	.0000	.0002	.0004	.0004
%RSD	16.28	7.381	18.85	.9213	6.623	18.70	55.11	.2053	257.9
#1	.0030	.0179	.0182	.4144	.0014	-0.0002	.0002	.1973	.0005
#2	.0038	.0161	.0238	.4198	.0015	-0.0003	.0004	.1968	-0.0001
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0001	.0000	-0.0056	-0.0004	.0029	-0.0007	.0009		
Stddev	.0000	.0003	.0001	.0000	.0008	.0003	.0002		
%RSD	17.02	1081.	1.312	10.22	28.06	41.60	24.53		
#1	.0001	.0002	-0.0055	-0.0004	.0023	-0.0008	.0007		
#2	.0001	-0.0002	-0.0056	-0.0004	.0035	-0.0005	.0010		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	201000.	47648.	3093.0	8075.1					
Stddev	507.	81.	20.0	49.1					
%RSD	.25228	.17065	.64776	.60790					
#1	200640.	47590.	3078.8	8040.4					
#2	201360.	47705.	3107.2	8109.8					

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Sample Name: jb70522-29 Acquired: 7/3/2014 2:37:09 Type: Unk
Method: Accutest1(v205) 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	-0.0001	.0001	-0.0001	.0003	-0.0001	.0000
Stddev	.0000	.000	.0001	.0001	.0001	.0003	.0000	.0001	.0002
%RSD	10.78	21.59	82.73	187.9	51.56	231.4	8.304	88.44	621.2
#1	.0003	.0000	.0002	-0.0002	.0001	.0001	.0003	-0.0001	.0002
#2	.0002	.0000	.0000	.0000	.0002	-0.0004	.0003	.0000	-0.0001
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0002	.0024	-0.0010	-0.0007	-0.0004	-0.0011	.0005	.0063	.0547
Stddev	.0001	.0003	.0004	.0003	.0001	.0007	.0008	.0040	.0018
%RSD	41.55	10.75	39.89	38.03	41.02	65.74	142.7	63.74	3.300
#1	.0003	.0023	-0.0007	-0.0005	-0.0005	-0.0016	.0000	.0092	.0559
#2	.0002	.0026	-0.0013	-0.0008	-0.0003	-0.0006	.0011	.0035	.0534
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0087	.0030	.0322	.1569	.0001	-0.0002	.0002	.0320	.0000
Stddev	.0005	.0021	.0010	.0085	.0002	.0000	.0002	.0001	.000
%RSD	6.322	69.57	3.072	5.436	155.4	22.86	95.24	.1678	621.1
#1	.0091	.0045	.0328	.1629	.0003	-0.0001	.0004	.0319	.0001
#2	.0083	.0015	.0315	.1508	.0000	-0.0002	.0001	.0320	-0.0001
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0001	.0002	-0.0050	-0.0001	.0039	-0.0010	.0002		
Stddev	.0000	.0002	.0009	.0000	.0003	.0001	.0005		
%RSD	17.15	90.98	17.63	5.320	7.684	10.20	266.8		
#1	.0001	.0001	-0.0044	-0.0001	.0037	-0.0011	.0006		
#2	.0001	.0003	-0.0056	-0.0001	.0041	-0.0010	-0.0002		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	204240.	47425.	3071.2	8018.7					
Stddev	4583.	1125.	4.6	10.9					
%RSD	2.2440	2.3728	.14824	.13571					
#1	201000.	46629.	3068.0	8011.0					
#2	207490.	48221.	3074.4	8026.4					

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Sample Name: mp80414-mb1 Acquired: 7/3/2014 2:43:19 Type: Unk
Method: Accutest1(v205) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: not due

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.0063	.0000	.0001	.0000	.0024	.0087	.0027	.0025	.0003
Stddev	.0000	.0000	.0002	.0001	.0002	.0002	.0001	.0002	.0001
%RSD	.3491	36.69	120.8	238.3	8.538	2.855	1.943	7.116	27.47
#1	.0063	.0000	.0000	.0001	.0026	.0089	.0027	.0026	.0003
#2	.0063	.0001	.0002	.0000	.0023	.0085	.0028	.0023	.0002
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0005	.0045	-.0025	-.0020	.0055	.0054	.0003	.0258	.1859
Stddev	.0003	.0000	.0008	.0000	.0001	.0016	.0001	.0030	.0009
%RSD	58.79	1.056	30.60	1.135	2.631	29.95	29.20	11.73	.4599
#1	.0003	.0045	-.0031	-.0020	.0054	.0043	.0003	.0279	.1865
#2	.0008	.0045	-.0020	-.0020	.0056	.0066	.0002	.0236	.1853
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0323	.0319	.1756	F 1095.	.0027	-.0002	.0004	.4285	.0016
Stddev	.0003	.0044	.0098	7.	.0001	.0000	.0019	.0001	.0001
%RSD	.9845	13.78	5.568	.6343	3.377	14.09	486.8	.0243	6.399
#1	.0321	.0288	.1687	1090.	.0027	-.0002	.0018	.4285	.0017
#2	.0325	.0350	.1826	1100.	.0028	-.0002	-.0010	.4286	.0015
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0070	-.0002	-.0061	-.0007	.0309	.0003	.0001		
Stddev	.0000	.0001	.0003	.0002	.0024	.0004	.0004		
%RSD	.0449	32.03	4.786	23.77	7.841	157.8	423.7		
#1	.0070	-.0002	-.0063	-.0008	.0292	.0006	.0004		
#2	.0070	-.0002	-.0059	-.0006	.0326	.0000	-.0002		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	172910.	45666.	2799.3	6938.3					
Stddev	215.	44.	.5	2.0					
%RSD	.12439	.09604	.01611	.02927					
#1	172750.	45635.	2799.0	6936.8					
#2	173060.	45697.	2799.6	6939.7					

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Sample Name: mp80414-b1 Acquired: 7/3/2014 2:49:34 Type: Unk
Method: Accutest1(v205) 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	1.910	.0495	.0501	.4853	.1961	.2303	.4915	.5011	.0494
Stddev	.005	.0001	.0000	.0002	.0000	.0001	.0001	.0004	.0001
%RSD	.2600	.2332	.0800	.0392	.0065	.0578	.0291	.0699	.1553
#1	1.907	.0494	.0501	.4852	.1962	.2302	.4914	.5013	.0493
#2	1.914	.0496	.0501	.4855	.1961	.2304	.4916	.5008	.0494
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.4752	.5247	2.049	1.966	1.974	2.138	.4806	1.828	.0134
Stddev	.0009	.0000	.002	.001	.002	.001	.0003	.007	.0004
%RSD	.1809	.0075	.0718	.0424	.1190	.0529	.0573	.3945	3.331
#1	.4758	.5247	2.050	1.967	1.972	2.139	.4804	1.823	.0137
#2	.4746	.5247	2.048	1.965	1.975	2.137	.4808	1.833	.0131
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	1.020	.0182	.1562	998.9	.0030	.0009	.0020	.3421	.0019
Stddev	.002	.0004	.0114	8.0	.0003	.0001	.0007	.0004	.0002
%RSD	.1859	2.032	7.307	.8006	10.32	14.34	34.02	.1127	9.850
#1	1.019	.0184	.1481	1005.	.0027	.0008	.0016	.3423	.0018
#2	1.021	.0179	.1643	993.2	.0032	.0009	.0025	.3418	.0020
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0058	.0033	-.0033	-.0020	.0243	-.0023	.0007		
Stddev	.0001	.0002	.0004	.0000	.0002	.0001	.0002		
%RSD	1.594	5.956	11.33	2.297	.8487	2.509	36.06		
#1	.0057	.0032	-.0036	-.0020	.0242	-.0023	.0009		
#2	.0058	.0034	-.0030	-.0020	.0245	-.0023	.0005		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	175900.	45902.	2812.1	7013.5					
Stddev	1.	16.	.6	5.9					
%RSD	.00074	.03395	.02108	.08349					
#1	175900.	45913.	2812.5	7017.6					
#2	175900.	45891.	2811.7	7009.3					

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Sample Name: mp80414-s1 Acquired: 7/3/2014 2:55:41 Type: Unk
Method: Accutest1(v205) 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	2.905	.0542	.0542	.5157	.2077	.2538	1.295	.5581	.0535
Stddev	.003	.0000	.0001	.0005	.0002	.0019	.004	.0015	.0003
%RSD	.1047	.0819	.0041	.1023	.1157	.7608	.3301	.2674	.5957
#1	2.903	.0542	.0542	.5153	.2075	.2552	1.298	.5570	.0537
#2	2.907	.0542	.0541	.5161	.2079	.2525	1.292	.5591	.0533
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.5064	.6902	2.190	2.084	2.117	2.291	.5160	2.222	25.41
Stddev	.0010	.0021	.007	.000	.003	.010	.0009	.003	.03
%RSD	.1879	.3055	.3063	.0124	.1425	.4295	.1817	.1488	.1127
#1	.5071	.6887	2.185	2.084	2.115	2.284	.5154	2.225	25.43
#2	.5058	.6917	2.195	2.083	2.119	2.298	.5167	2.220	25.39
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	1.166	13.02	3.984	F 1011.	.2212	.0006	.0021	2.103	.0008
Stddev	.003	.02	.008	10.	.0006	.0002	.0006	.005	.0002
%RSD	.2298	.1567	.2066	.9398	.2558	33.47	29.08	.2406	24.13
#1	1.168	13.00	3.990	1018.	.2208	.0008	.0016	2.100	.0007
#2	1.164	13.03	3.978	1004.	.2216	.0005	.0025	2.107	.0009
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.1472	.0043	-.0025	-.0027	2.104	-.0023	.0025		
Stddev	.0001	.0002	.0006	.0000	.003	.0004	.0003		
%RSD	.0412	4.021	24.66	.2977	.1384	16.53	11.85		
#1	.1471	.0045	-.0021	-.0027	2.102	-.0026	.0027		
#2	.1472	.0042	-.0029	-.0027	2.106	-.0020	.0023		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	175640.	46458.	2793.3	6950.0					
Stddev	300.	121.	8.6	15.9					
%RSD	.17058	.26109	.30713	.22882					
#1	175420.	46372.	2799.3	6961.3					
#2	175850.	46544.	2787.2	6938.8					

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Sample Name: ccv Acquired: 7/3/2014 3:01:48 Type: QC
Method: Accutest1(v205) 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	2.049	2.000	2.035	2.022	1.967	2.044	2.049	.2457
Stddev	.005	.030	.003	.003	.004	.004	.013	.003	.0001
%RSD	.2585	1.473	.1452	.1356	.2211	.2013	.6547	.1278	.0534
#1	2.010	2.028	2.002	2.037	2.025	1.970	2.054	2.051	.2458
#2	2.002	2.071	1.998	2.033	2.018	1.964	2.035	2.047	.2457
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	1.983	2.062	1.993	2.069	2.041	2.020	1.994	39.33	40.86
Stddev	.004	.004	.001	.006	.004	.007	.007	.03	.17
%RSD	.2281	.2016	.0677	.2809	.2192	.3344	.3389	.0776	.4068
#1	1.996	2.065	1.993	2.073	2.044	2.024	1.999	39.30	40.74
#2	1.990	2.059	1.992	2.065	2.038	2.015	1.989	39.35	40.97
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	40.89	40.02	39.29	40.06	2.001	2.002	1.939	4.970	2.031
Stddev	.09	.25	.04	.04	.003	.004	.002	.015	.004
%RSD	.2301	.6227	.1025	.0998	.1636	.2039	.0867	.2917	.2086
#1	40.82	39.84	39.26	40.03	2.003	2.005	1.941	4.980	2.034
#2	40.96	40.19	39.32	40.08	1.998	1.999	1.938	4.960	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: 7/3/2014 3:01:48 Type: QC
Method: Accutest1(v205) 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	2.022	1.985	1.846	1.986	1.982	1.969	1.985
Stddev	.030	.003	.005	.002	.005	.006	.006
%RSD	1.476	.1289	.2966	.0760	.2695	.2891	.3235
#1	2.001	1.987	1.842	1.987	1.986	1.973	1.989
#2	2.043	1.983	1.850	1.985	1.978	1.965	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	191230.	47009.	2969.8	7750.3
Stddev	116.	260.	5.4	8.5
%RSD	.06044	.55382	.18268	.10981
#1	191150.	47193.	2966.0	7744.2
#2	191310.	46825.	2973.7	7756.3

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Sample Name: ccb Acquired: 7/3/2014 3:08:04 Type: QC
Method: Accutest1(v205) 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	.0062	.0003	-.0020	.0001	.0001
Stddev	.0000	.0002	.0008	.0000	.0007	.0002	.0002
%RSD	205.8	115.3	12.23	6.701	35.55	342.1	316.0
#1	.0000	.0000	.0068	.0003	-.0024	-.0001	-.0001
#2	.0000	.0003	.0057	.0003	-.0015	.0002	.0002

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	200470.	47249.	3082.9	8052.1
Stddev	277.	181.	3.5	5.1
%RSD	.13812	.38271	.11337	.06370
#1	200660.	47121.	3080.4	8048.4
#2	200270.	47377.	3085.3	8055.7

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Sample Name: ccb Acquired: 7/3/2014 3:08:04 Type: QC
Method: Accutest1(v205) 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	.0001	-.0001	.0001	-.0003	.0000	.0000	-.0002
Stddev	.0000	.000	.0001	.0002	.0001	.0000	.000	.0002	.0001
%RSD	23.74	106.6	71.44	286.8	133.5	13.71	52.02	2291.	73.89
#1	.0001	.0000	.0001	.0001	.0001	-.0003	.0000	.0001	-.0003
#2	.0001	.0000	.0000	-.0002	.0000	-.0003	.0000	-.0001	-.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	.0003	-.0005	-.0004	.0002	.0001	-.0013	.0001	-.0014	.0002
Stddev	.0001	.0002	.0003	.0009	.0004	.0013	.0004	.0017	.0006
%RSD	19.67	33.08	69.20	525.5	455.8	95.30	444.3	121.5	254.4
#1	.0003	-.0006	-.0002	-.0005	.0004	-.0004	.0004	-.0026	.0006
#2	.0002	-.0004	-.0007	.0008	-.0002	-.0022	-.0002	-.0002	-.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	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	-.0021	.0327	.0214	.0006	.0003	.0000	.0007	-.0003
Stddev	.0001	.0022	.0329	.0063	.0001	.0001	.0004	.0001	.0006
%RSD	51.91	103.7	100.6	29.44	16.42	25.42	1535.	16.26	191.5
#1	.0003	-.0037	.0094	.0259	.0007	.0004	.0003	.0008	.0001
#2	.0001	-.0006	.0559	.0169	.0005	.0003	-.0002	.0006	-.0007

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: mp80414-s2 Acquired: 7/3/2014 3:14:17 Type: Unk
Method: Accutest1(v205) 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	2.886	.0540	.0536	.5148	.2071	.2541	1.282	.5560	.0534
Stddev	.003	.0002	.0000	.0003	.0006	.0007	.002	.0010	.0000
%RSD	.0850	.3180	.0321	.0577	.2841	.2713	.1629	.1806	.0577
#1	2.884	.0539	.0536	.5146	.2075	.2546	1.284	.5567	.0534
#2	2.888	.0541	.0536	.5150	.2067	.2536	1.281	.5553	.0533

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5043	.6879	2.176	2.076	2.112	2.273	.5142	2.221	25.13
Stddev	.0002	.0011	.001	.002	.002	.000	.0005	.007	.02
%RSD	.0435	.1572	.0380	.0756	.0785	.0069	.0967	.3265	.0660
#1	.5045	.6887	2.175	2.077	2.113	2.273	.5146	2.216	25.11
#2	.5042	.6872	2.176	2.075	2.111	2.274	.5139	2.226	25.14

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.170	12.88	3.930	997.8	2191	.0009	.0026	2.094	.0011
Stddev	.003	.02	.008	8.4	.0003	.0001	.0013	.001	.0003
%RSD	.2407	.1303	.2003	.8458	.1185	13.49	50.61	.0217	27.21
#1	1.168	12.86	3.924	991.8	.2190	.0008	.0036	2.093	.0013
#2	1.172	12.89	3.935	1004.	.2193	.0010	.0017	2.094	.0009

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1453	.0050	.0065	-.0022	2.085	-.0025	.0032
Stddev	.0001	.0000	.0006	.0000	.001	.0000	.0001
%RSD	.0547	.8678	8.583	1.660	.0557	.0833	2.268
#1	.1454	.0049	.0069	-.0022	2.084	-.0025	.0032
#2	.1453	.0050	.0061	-.0022	2.085	-.0025	.0031

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	175710.	46302.	2789.2	6944.6
Stddev	73.	61.	3.1	7.5
%RSD	.04148	.13208	.11131	.10824
#1	175660.	46345.	2787.0	6939.3
#2	175760.	46259.	2791.4	6950.0

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Sample Name: jb70480-1a Acquired: 7/3/2014 3:20:22 Type: Unk
Method: Accutest1(v205) 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	.8742	.0013	.0011	.0017	.0023	.0101	.7694	.0297	.0004
Stddev	.0036	.0000	.0000	.0001	.0000	.0004	.0011	.0001	.0002
%RSD	.4135	2.512	1.538	6.590	.7630	4.012	.1443	.1716	55.07
#1	.8767	.0013	.0011	.0018	.0023	.0104	.7702	.0296	.0006
#2	.8716	.0014	.0011	.0016	.0023	.0098	.7686	.0297	.0003
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0006	.1390	.0012	.0001	.0281	.0063	.0004	.2682	25.14
Stddev	.0000	.0000	.0003	.0001	.0008	.0015	.0001	.0012	.05
%RSD	3.225	.0297	22.06	76.30	2.934	24.23	19.54	.4647	.2090
#1	.0006	.1390	.0010	.0001	.0286	.0052	.0004	.2691	25.18
#2	.0005	.1391	.0014	.0002	.0275	.0074	.0003	.2673	25.11
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.1081	12.89	3.947	997.9	.2182	.0003	.0001	2.044	.0008
Stddev	.0003	.02	.029	16.4	.0002	.0001	.0001	.001	.0003
%RSD	.2501	.1634	.7485	1.641	.0705	20.54	149.5	.0318	40.10
#1	.1082	12.91	3.968	1009.	.2183	.0002	.0000	2.043	.0006
#2	.1079	12.88	3.926	986.3	.2181	.0003	.0001	2.044	.0011
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.1455	.0033	.0008	.0010	2.079	.0014	.0017		
Stddev	.0007	.0002	.0003	.0001	.000	.0004	.0010		
%RSD	.4797	5.769	35.59	14.19	.0022	34.76	57.03		
#1	.1460	.0031	.0006	.0011	2.079	.0008	.0025		
#2	.1450	.0034	.0010	.0009	2.079	.0013	.0010		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	175090.	46234.	2779.5	6919.2					
Stddev	359.	53.	2.4	1.0					
%RSD	.20493	.11384	.08564	.01472					
#1	174840.	46197.	2781.2	6919.9					
#2	175350.	46271.	2777.8	6918.5					

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Sample Name: mp80414-sd1 Acquired: 7/3/2014 3:26:34 Type: Unk
Method: Accutest1(v205) 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	.8861	.0011	.0008	.0019	.0022	.0115	.7906	.0309	.0003
Stddev	.0020	.0000	.0005	.0008	.0000	.0012	.0006	.0015	.0008
%RSD	.2262	3.604	56.54	40.01	.7818	10.13	.0721	4.878	215.0
#1	.8875	.0012	.0012	.0014	.0022	.0123	.7902	.0320	.0009
#2	.8847	.0011	.0005	.0024	.0023	.0107	.7910	.0299	.0002
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0014	.1501	.0030	.0032	.0283	.0037	.0010	.2759	26.08
Stddev	.0002	.0002	.0003	.0026	.0056	.0006	.0021	.0397	.01
%RSD	12.26	.1282	8.578	81.32	19.95	16.88	209.8	14.38	.0364
#1	.0015	.1500	.0028	.0014	.0323	.0042	.0005	.3039	26.08
#2	.0012	.1502	.0032	.0051	.0243	.0033	.0024	.2478	26.07
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.1209	13.43	4.136	1121.	.2217	.0007	.0038	2.101	.0009
Stddev	.0008	.10	.108	8.	.0001	.0003	.0024	.005	.0027
%RSD	.6440	.7131	2.601	.7245	.0349	40.24	62.62	.2314	280.5
#1	.1214	13.50	4.060	1127.	.2218	.0009	.0021	2.105	.0028
#2	.1203	13.36	4.212	1116.	.2217	.0005	.0055	2.098	.0009
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.1481	.0038	.0171	.0019	2.089	.0027	.0049		
Stddev	.0001	.0016	.0028	.0004	.010	.0005	.0008		
%RSD	.0465	41.99	16.62	20.91	.4886	17.47	16.19		
#1	.1481	.0049	.0191	.0016	2.096	.0030	.0043		
#2	.1480	.0027	.0151	.0021	2.082	.0024	.0055		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	188570.	46870.	2953.4	7581.8					
Stddev	164.	58.	1.5	.4					
%RSD	.08677	.12299	.05185	.00526					
#1	188680.	46830.	2954.5	7582.1					
#2	188450.	46911.	2952.3	7581.5					

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Sample Name: jb70152-18 Acquired: 7/3/2014 3:32:47 Type: Unk
Method: Accutest1(v205) 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	.4768	.0018	.0003	.1234	.0571	.6281	43.80	.1888	.0025
Stddev	.0003	.0001	.0008	.0006	.0023	.0012	.18	.0024	.0016
%RSD	.0644	3.944	277.0	.5188	3.991	.1869	.4001	1.250	62.76
#1	.4766	.0018	.0003	.1238	.0588	.6273	43.68	.1872	.0014
#2	.4770	.0019	.0008	.1229	.0555	.6290	43.92	.1905	.0036
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.2167	.0156	.0122	.0001	.0292	.0122	.0018	.3983	229.7
Stddev	.0007	.0012	.0031	.0011	.0047	.0009	.0050	.0038	.4
%RSD	.3035	7.969	25.36	750.4	16.21	7.233	286.7	.9462	.1736
#1	.2162	.0165	.0100	.0006	.0259	.0128	.0053	.4009	229.4
#2	.2171	.0147	.0144	.0009	.0326	.0116	.0018	.3956	229.9
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	39.40	81.37	10.22	1288.	11.72	.0046	.0007	24.92	.0135
Stddev	.01	.23	.09	2.	.01	.0001	.0126	.06	.0037
%RSD	.0180	.2880	.8951	.1790	.1177	1.727	.1762	.2503	27.18
#1	39.40	81.20	10.16	1286.	11.73	.0046	.0082	24.97	.0160
#2	39.41	81.54	10.29	1289.	11.71	.0047	.0097	24.88	.0109
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	1.937	.2562	.0308	.0203	2.665	.0030	.0061		
Stddev	.002	.0029	.0036	.0001	.006	.0073	.0034		
%RSD	.1247	1.126	11.65	.2663	.2143	245.0	55.19		
#1	1.936	.2541	.0334	.0204	2.661	.0081	.0085		
#2	1.939	.2582	.0283	.0203	2.669	.0022	.0037		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	191560.	47067.	2957.4	7656.7					
Stddev	398.	190.	5.5	6.4					
%RSD	.20777	.40397	.18616	.08409					
#1	191280.	47201.	2953.5	7652.1					
#2	191840.	46932.	2961.3	7661.2					

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Sample Name: jb70546-2 Acquired: 7/3/2014 3:39:04 Type: Unk
Method: Accutest1(v205) 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	.1242	.0000	.0002	.0001	.0039	.0073	.5297	.0079	.0015
Stddev	.0003	.000	.0000	.0001	.0000	.0002	.0029	.0000	.0001
%RSD	.2147	.3818	25.83	91.08	.7351	2.663	.5407	.0614	5.612
#1	.1244	.0000	.0001	.0002	.0039	.0075	.5276	.0079	.0016
#2	.1241	.0000	.0002	.0000	.0039	.0072	.5317	.0079	.0015
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0083	.0166	.0361	.0004	.0047	.0090	.0005	.7991	359.1
Stddev	.0002	.0001	.0007	.0018	.0004	.0008	.0005	.0005	3.6
%RSD	2.129	.4578	1.870	496.5	8.704	9.392	100.9	.0663	1.009
#1	.0082	.0166	.0356	.0009	.0049	.0084	.0008	.7995	361.7
#2	.0084	.0165	.0366	.0017	.0044	.0096	.0001	.7987	356.6
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	2.487	50.93	214.1	****	.1342	.0425	.0105	8.895	.0012
Stddev	.006	.23	.2	----	.0003	.0001	.0007	.020	.0003
%RSD	.2350	.4484	.1026	----	.2453	.2539	6.263	.2284	23.02
#1	2.491	51.09	214.3	----	.1344	.0424	.0101	8.909	.0014
#2	2.483	50.76	214.0	----	.1340	.0426	.0110	8.881	.0010
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	4.538	.0312	.0013	.0006	F 848.2	.0006	.0461		
Stddev	.034	.0015	.0000	.0000	.1	.0000	.0019		
%RSD	.7406	4.703	.0525	4.596	.0125	3.746	4.219		
#1	4.514	.0301	.0013	.0005	848.3	.0006	.0447		
#2	4.562	.0322	.0013	.0006	848.2	.0006	.0474		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	162840.	44192.	2566.8	6284.9					
Stddev	557.	226.	1.9	5.0					
%RSD	.34209	.51201	.07512	.08028					
#1	163230.	44032.	2565.5	6281.4					
#2	162440.	44352.	2568.2	6288.5					

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Sample Name: jb70546-3 Acquired: 7/3/2014 3:45:29 Type: Unk
Method: Accutest1(v205) 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	.0392	.0000	-.0001	.0005	.0081	.0029	1.991	.0076	.0001
Stddev	.0002	.0000	.0000	.0001	.0000	.0001	.002	.0002	.0002
%RSD	.4562	77.24	5.533	15.43	.2796	3.008	.0826	2.225	156.3
#1	.0391	.0000	-.0001	.0004	.0081	.0028	1.992	.0075	.0000
#2	.0393	.0001	-.0001	.0005	.0081	.0029	1.989	.0077	.0003
Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0170	.0097	.0264	.0035	.0030	.0030	-.0007	.1118	99.43
Stddev	.0002	.0022	.0001	.0006	.0003	.0009	.0002	.0021	2.04
%RSD	1.240	22.31	.3783	15.94	9.803	30.56	29.78	1.851	2.052
#1	.0172	.0082	.0264	.0039	.0033	.0036	-.0008	.1132	100.9
#2	.0169	.0112	.0265	.0031	.0028	.0023	-.0005	.1103	97.99
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.5363	21.62	59.13	*****	.2266	.0003	-.0071	8.387	-.0005
Stddev	.0041	.49	.24	-----	.0001	.0001	.0010	.049	.0002
%RSD	.7636	2.270	.4142	-----	.0456	35.91	13.82	.5829	48.10
#1	.5392	21.97	59.30	-----	.2266	.0004	-.0064	8.421	-.0003
#2	.5334	21.28	58.96	-----	.2265	.0002	-.0078	8.352	-.0007
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.5236	.0176	-.0019	.0169	F 250.7	.0001	.0072		
Stddev	.0013	.0000	.0001	.0000	.1	.0000	.0004		
%RSD	.2435	.0957	7.245	.1720	.0329	23.07	6.138		
#1	.5227	.0176	-.0020	.0169	250.8	.0001	.0075		
#2	.5245	.0176	-.0018	.0169	250.6	.0002	.0068		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	158040.	43468.	2544.8	6145.6					
Stddev	482.	667.	22.3	37.6					
%RSD	.30526	1.5349	.87492	.61160					
#1	158380.	42996.	2529.0	6119.0					
#2	157700.	43939.	2560.5	6172.1					

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Sample Name: jb70546-4 Acquired: 7/3/2014 3:51:44 Type: Unk
Method: Accutest1(v205) 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	.1273	.0000	-.0005	.0008	.0026	-.0022	2.776	.0166	
Stddev	.0004	.000	.0003	.0000	.0001	.0001	.012	.0003	
%RSD	.3043	46.66	49.14	.0570	2.639	4.262	.4163	1.910	
#1	.1276	.0000	-.0007	.0008	.0026	-.0021	2.768	.0163	
#2	.1271	.0000	-.0003	.0008	.0026	-.0023	2.784	.0168	
Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	
Avg	F -.0158	.0037	.0109	.0631	.0012	.0025	.0066	-.0008	
Stddev	.0000	.0000	.0000	.0006	.0002	.0007	.0011	.0001	
%RSD	.2432	.5710	.2271	1.003	15.48	29.53	16.56	15.08	
#1	-.0157	.0037	.0109	.0636	.0010	.0020	.0058	-.0009	
#2	-.0158	.0038	.0109	.0627	.0013	.0030	.0074	-.0007	
Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	
Avg	.1548	253.9	30.92	162.2	123.3	*****	.2939	.0039	
Stddev	.0054	2.0	.19	.9	.2	-----	.0003	.0001	
%RSD	3.500	.7834	.6101	.5728	.1997	-----	.0960	2.154	
#1	.1509	255.3	31.05	162.9	123.5	-----	.2937	.0039	
#2	.1586	252.5	30.79	161.6	123.1	-----	.2941	.0040	
Elem	Pd3404	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	
Avg	-.0079	4.603	-.0012	2.270	.0071	-.0035	.0038	F 1216.	
Stddev	.0004	.010	.0005	.017	.0001	.0009	.0001	16.	
%RSD	4.459	.2099	40.18	.7580	1.396	25.92	2.959	1.332	
#1	-.0081	4.596	-.0015	2.282	.0070	-.0041	.0039	1205.	
#2	-.0076	4.610	-.0008	2.258	.0071	-.0028	.0037	1228.	
Elem	Bi2230	Li6707							
Avg	.0007	.0283							
Stddev	.0005	.0008							
%RSD	72.96	2.778							
#1	.0003	.0277							
#2	.0011	.0288							

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Sample Name: jb70546-4 Acquired: 7/3/2014 3:51:44 Type: Unk
Method: Accutest1(v205) 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	154360.	43187.	2442.8	5965.5
Stddev	107.	262.	2.3	.8
%RSD	.06916	.60593	.09608	.01328
#1	154440.	43002.	2444.5	5965.0
#2	154280.	43372.	2441.2	5966.1

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Sample Name: jb70546-5 Acquired: 7/3/2014 3:58:17 Type: Unk
Method: Accutest1(v205) 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	.0561	.0001	-.0001	.0018	.0117	.0105	.8125	.0186	-.0010
Stddev	.0001	.0000	.0001	.0000	.0001	.0004	.0009	.0000	.0000
%RSD	.1801	26.64	111.7	2.618	1.225	4.150	.1110	.0079	.3692
#1	.0562	.0001	.0000	.0018	.0118	.0108	.8131	.0186	-.0010
#2	.0560	.0001	-.0002	.0019	.0116	.0102	.8118	.0186	-.0010
Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0230	.0326	.0281	.0011	.0084	.0097	.0006	.6993	59.13
Stddev	.0002	.0000	.0003	.0003	.0007	.0005	.0001	.0033	.03
%RSD	1.019	.0871	1.143	24.38	8.076	4.977	15.89	.4753	.0430
#1	.0232	.0326	.0278	.0012	.0089	.0093	.0007	.7016	59.11
#2	.0229	.0326	.0283	.0009	.0079	.0100	.0005	.6969	59.15
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	3.146	22.73	37.00	*****	.2049	.0036	-.0149	9.738	-.0005
Stddev	.003	.04	.01	-----	.0005	.0000	.0006	.009	.0000
%RSD	.0932	.1544	.0183	-----	.2293	.0109	3.711	.0887	3.198
#1	3.144	22.76	37.00	-----	.2053	.0036	-.0145	9.745	-.0005
#2	3.148	22.71	36.99	-----	.2046	.0036	-.0153	9.732	-.0005
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.3241	.0412	-.0022	.0428	F 854.3	.0014	.0053		
Stddev	.0002	.0003	.0005	.0002	5.2	.0003	.0005		
%RSD	.0740	.8298	23.98	.3842	.6105	23.78	8.898		
#1	.3242	.0414	-.0019	.0427	858.0	.0016	.0056		
#2	.3239	.0409	-.0026	.0430	850.6	.0012	.0050		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	158240.	44303.	2549.7	6099.6					
Stddev	54.	11.	1.1	1.5					
%RSD	.03386	.02433	.04404	.02454					
#1	158200.	44296.	2548.9	6098.5					
#2	158280.	44311.	2550.5	6100.7					

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Sample Name: jb70546-6 Acquired: 7/3/2014 4:04:33 Type: Unk
Method: Accutest1(v205) 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	.0897	.0000	.0003	.0000	.0026	.0050	.4929	.0046	.0023
Stddev	.0003	.000	.0001	.000	.0002	.0002	.0015	.0001	.0001
%RSD	.3733	78.84	40.10	1180.	6.706	3.689	.2948	1.828	5.710
#1	.0899	-.0001	.0002	.0000	.0025	.0051	.4939	.0045	.0024
#2	.0894	.0000	.0004	.0000	.0028	.0049	.4919	.0046	.0022
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0089	.0263	.0118	.0255	.0042	.0058	-.0004	.4551	.229.7
Stddev	.0000	.0000	.0001	.0001	.0005	.0011	.0008	.0048	2.5
%RSD	.4312	.0836	.5178	.4606	12.56	18.16	180.1	1.047	1.089
#1	.0089	.0263	.0117	.0255	.0038	.0051	-.0010	.4517	231.5
#2	.0088	.0263	.0118	.0256	.0046	.0066	.0001	.4585	227.9
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.4921	.68.59	.64.84	.871.7	.4096	.0022	.0009	.8.501	-.0019
Stddev	.018	.11	.08	3.3	.0005	.0002	.0009	.020	.0005
%RSD	.3736	.1615	.1295	.3825	.1155	7.452	94.11	.2363	24.89
#1	4.934	68.67	64.90	874.1	.4100	.0023	.0003	8.515	-.0022
#2	4.908	68.51	64.79	869.4	.4093	.0020	.0016	8.486	-.0015
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.1923	.0244	-.0022	-.0053	F 158.2	.0026	.0362		
Stddev	.013	.0013	.0004	.0000	.4	.0001	.0001		
%RSD	.6715	5.388	19.55	.2549	.2566	4.586	.1622		
#1	1.932	.0253	-.0025	-.0053	158.5	.0025	.0363		
#2	1.914	.0235	-.0019	-.0053	157.9	.0026	.0362		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	172470.	45330.	2704.7	6753.4					
Stddev	59.	96.	5.8	7.7					
%RSD	.03416	.21082	.21406	.11430					
#1	172510.	45262.	2700.6	6747.9					
#2	172430.	45398.	2708.8	6758.8					

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Sample Name: jb70546-7 Acquired: 7/3/2014 4:10:56 Type: Unk
Method: Accutest1(v205) 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	.1334	-.0001	.0012	-.0005	.0018	.0023	1.047	.0024	.0045
Stddev	.0000	.0000	.0001	.0001	.0001	.0000	.001	.0001	.0003
%RSD	.0227	51.66	5.754	24.81	2.892	1.548	.1314	3.711	6.328
#1	.1334	-.0001	.0011	-.0006	.0018	.0023	1.048	.0025	.0047
#2	.1334	.0000	.0012	-.0004	.0019	.0024	1.046	.0024	.0043
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0040	-.0008	.0287	.0927	.0014	.0144	-.0013	.4336	F 517.5
Stddev	.0000	.0002	.0009	.0004	.0001	.0006	.0005	.0034	4.1
%RSD	.1329	20.55	2.994	.3905	10.73	4.018	41.37	.7730	.7915
#1	.0041	-.0007	.0293	.0929	.0013	.0148	-.0017	.4312	514.6
#2	.0040	-.0009	.0281	.0924	.0015	.0140	-.0009	.4359	520.4
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	1.072	.182.3	.223.9	F 1159.	.5261	-.0019	-.0011	.7467	-.0020
Stddev	.002	.7	.4	5.	.0006	.0002	.0001	.005	.0009
%RSD	.1582	.3694	.1601	.4253	.1143	9.086	4.810	.0710	42.14
#1	1.071	181.9	223.7	1156.	.5266	-.0017	-.0011	7.470	-.0014
#2	1.073	182.8	224.2	1163.	.5257	-.0020	-.0012	7.463	-.0026
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.3.698	.0105	-.0019	-.0092	F 242.5	-.0019	.0187		
Stddev	.110	.0001	.0006	.0002	.2	.0001	.0001		
%RSD	2.974	.5019	33.41	2.173	.0906	6.200	.4908		
#1	3.621	.0105	-.0024	-.0093	242.7	-.0020	.0186		
#2	3.776	.0104	-.0015	-.0090	242.4	-.0019	.0188		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	162660.	43559.	2545.2	6347.6					
Stddev	483.	262.	4.6	3.3					
%RSD	.29664	.60084	.17919	.05208					
#1	162320.	43744.	2541.9	6345.2					
#2	163000.	43374.	2548.4	6349.9					

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Sample Name: ccv Acquired: 7/3/2014 4:17:20 Type: QC
Method: Accutest1(v205) 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	2.004	2.020	2.000	2.024	2.022	1.971	2.039	2.040	.2470
Stddev	.002	.005	.001	.002	.002	.002	.015	.001	.0010
%RSD	.0835	.2358	.0367	.1052	.1125	.0870	.7144	.0646	.3886
#1	2.002	2.023	2.000	2.023	2.020	1.972	2.029	2.039	.2477
#2	2.005	2.017	1.999	2.026	2.023	1.969	2.050	2.041	.2463
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	2.049	1.990	2.058	2.028	2.016	1.993	39.16	.40.76
Stddev	.003	.003	.001	.002	.001	.006	.001	.00	.12
%RSD	.1666	.1210	.0514	.1140	.0595	.3182	.0522	.0111	.2997
#1	1.991	2.051	1.991	2.060	2.029	2.021	1.994	39.16	40.84
#2	1.996	2.048	1.990	2.056	2.028	2.012	1.992	39.15	40.67
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	40.85	39.98	39.13	39.78	2.003	1.997	1.950	4.965	2.021
Stddev	.09	.17	.03	.01	.003	.000	.001	.002	.001
%RSD	.2225	.4214	.0877	.0296	.1409	.0115	.0513	.0295	.0281
#1	40.91	40.10	39.15	39.79	2.001	1.997	1.950	4.964	2.020
#2	40.78	39.86	39.11	39.77	2.005	1.996	1.951	4.966	2.021
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: 7/3/2014 4:17:20 Type: QC
Method: Accutest1(v205) 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	1.985	1.983	1.856	1.986	1.999	1.972	1.985
Stddev	.012	.000	.012	.001	.002	.001	.004
%RSD	.5932	.0195	.6645	.0710	.1105	.0629	.1785
#1	1.993	1.984	1.848	1.985	2.001	1.972	1.983
#2	1.976	1.983	1.865	1.987	1.998	1.971	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	191120.	47056.	2970.3	7758.1			
Stddev	40.	323.	1.2	7.5			
%RSD	.02097	.68676	.03924	.09654			
#1	191100.	46827.	2971.1	7763.4			
#2	191150.	47284.	2969.5	7752.8			

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Sample Name: ccb Acquired: 7/3/2014 4:23:35 Type: QC
Method: Accutest1(v205) 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	.0001	.0001	.0001	.0002	.0001	.0000
Stddev	.0001	.0000	.0000	.0001	.0003	.0001	.0000	.000
%RSD	124.4	9.502	9.412	45.83	459.2	35.19	46.44	4191.
#1	.0002	.0001	.0001	.0001	.0002	.0001	.0000	.0002
#2	.0000	.0001	.0001	.0002	.0001	.0002	.0001	.0002

Check ? High Limit Low Limit
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	.0003	.0005	.0000	.0002	.0005	.0018	.0002
Stddev	.0001	.0001	.0001	.000	.0007	.0009	.0003	.0002
%RSD	99.29	30.30	21.19	361.3	311.5	190.3	14.47	97.82
#1	.0000	.0002	.0006	.0001	.0003	.0002	.0020	.0004
#2	.0002	.0004	.0004	.0001	.0007	.0011	.0017	.0001

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	.0019	.0009	.0011	.0000	.0610	.0744	.0007	.0005
Stddev	.0019	.0004	.0001	.0001	.0014	.0042	.0003	.0003
%RSD	100.2	41.68	7.022	147.8	2.231	5.681	42.86	52.05
#1	.0032	.0012	.0010	.0001	.0601	.0714	.0009	.0007
#2	.0005	.0006	.0011	.0000	.0620	.0774	.0005	.0003

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: 7/3/2014 4:23:35 Type: QC
Method: Accutest1(v205) 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	.0011	.0000	.0001	.0000	.0079	.0004	W .0194
Stddev	.0010	.0003	.0005	.0000	.0001	.0008	.0001	.0017
%RSD	210.7	28.62	4299.	17.40	324.4	9.713	34.30	8.911
#1	.0002	.0013	.0003	.0001	.0000	.0084	.0003	.0206
#2	.0012	.0009	.0003	.0001	.0001	.0073	.0005	.0182

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	.0003	.0000
Stddev	.0002	.001
%RSD	49.61	2412.
#1	.0004	.0005
#2	.0002	.0004

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	200600.	47532.	3084.4	8045.8
Stddev	100.	47.	10.9	18.7
%RSD	.04993	.09980	.35185	.23203
#1	200670.	47566.	3076.7	8032.6
#2	200530.	47499.	3092.1	8059.0

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Sample Name: jb70546-8 Acquired: 7/3/2014 4:29:48 Type: Unk
Method: Accutest1(v205) 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	.0586	.0000	.0001	.0002	.0048	.0050	.1567	.0041
Stddev	.0010	.000	.0002	.0001	.0001	.0005	.0042	.0002
%RSD	1.703	1910.	217.2	29.60	1.384	9.490	2.709	5.100
#1	.0593	.0000	.0001	.0002	.0047	.0046	.1537	.0039
#2	.0579	.0000	.0003	.0003	.0048	.0053	.1597	.0042

Elem	Ag3280	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068
Avg	.0012	.0136	.0150	.0380	.1215	.0081	.0099	.0010
Stddev	.0001	.0006	.0001	.0005	.0005	.0004	.0010	.0012
%RSD	9.838	4.402	.8253	1.432	.4462	4.581	9.929	111.2
#1	.0011	.0132	.0149	.0384	.1218	.0084	.0106	.0002
#2	.0013	.0141	.0151	.0376	.1211	.0078	.0092	.0018

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Avg	.3042	106.5	1.693	124.6	311.9	F 1366.	.4815	.0010
Stddev	.0035	1.4	.024	1.6	4.8	24.	.0013	.0001
%RSD	1.163	1.330	1.424	1.260	1.532	1.754	.2795	6.578
#1	.3067	107.6	1.710	125.7	315.3	1383.	.4806	.0011
#2	.3017	105.5	1.676	123.5	308.5	1349.	.4825	.0010

Elem	Pd3404	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820
Avg	.0045	4.077	.0010	1.105	.0171	.0074	F -.0162	F 530.3
Stddev	.0006	.002	.0004	.018	.0005	.0002	.0002	.6
%RSD	14.42	.0357	40.91	1.586	2.958	2.377	1.104	.1086
#1	.0049	4.076	.0007	1.117	.0168	.0075	.0163	530.7
#2	.0040	4.078	.0013	1.092	.0175	.0072	.0160	529.9

Elem	Bi2230	Li6707
Avg	.0012	.0131
Stddev	.0001	.0001
%RSD	7.577	1.067
#1	.0012	.0132
#2	.0011	.0130

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Sample Name: jb70546-8 Acquired: 7/3/2014 4:29:48 Type: Unk
Method: Accutest1(v205) 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.	44899.	2650.9	6493.8
Stddev	3792.	517.	1.4	3.4
%RSD	2.3312	1.1514	.05330	.05291
#1	165350.	44533.	2651.9	6491.3
#2	159990.	45264.	2649.9	6496.2

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Sample Name: jb70546-9 Acquired: 7/3/2014 4:36:04 Type: Unk
Method: Accutest1(v205) 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	.2060	.0000	.0004	-.0004	.0017	.0020	.5345	.0019	.0026
Stddev	.0003	.000	.0002	.0000	.0001	.0003	.0004	.0001	.0004
%RSD	.1452	83.18	54.66	6.646	6.562	12.81	.0821	3.584	16.51
#1	.2062	.0000	.0006	-.0004	.0017	.0018	.5349	.0019	.0029
#2	.2057	-.0001	.0003	-.0004	.0016	.0022	.5342	.0018	.0023
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0033	.0036	.0219	.0214	.0022	.0033	.0004	.1671	.243.5
Stddev	.0000	.0000	.0007	.0005	.0002	.0001	.0005	.0019	.9
%RSD	.3458	1.044	3.265	2.181	6.874	4.200	121.8	1.112	.3697
#1	.0033	.0036	.0224	.0211	.0023	.0032	.0008	.1684	242.9
#2	.0033	.0036	.0214	.0218	.0021	.0034	.0001	.1658	244.2
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	6.777	63.95	52.49	720.4	.3979	-.0003	-.0007	11.73	-.0028
Stddev	.006	.03	.09	5.8	.0009	.0000	.0009	.02	.0006
%RSD	.0921	.0494	.1772	.8019	.2141	8.185	123.5	.1776	22.71
#1	6.782	63.97	52.56	716.3	.3973	-.0003	-.0001	11.72	-.0032
#2	6.773	63.93	52.42	724.5	.3985	-.0003	-.0013	11.75	-.0023
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	1.834	.0031	.0032	-.0022	25.49	-.0013	.0230		
Stddev	.017	.0000	.0006	.0001	.03	.0005	.0005		
%RSD	.9028	.5236	18.78	2.544	.1230	37.08	2.330		
#1	1.822	.0031	.0028	-.0022	25.47	-.0010	.0234		
#2	1.846	.0031	.0036	-.0022	25.52	-.0017	.0227		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	174500.	45136.	2734.8	6855.7					
Stddev	165.	114.	.8	1.1					
%RSD	.09479	.25269	.02851	.01562					
#1	174390.	45055.	2735.4	6856.5					
#2	174620.	45217.	2734.3	6855.0					

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Sample Name: jb70546-10 Acquired: 7/3/2014 4:42:27 Type: Unk
Method: Accutest1(v205) 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	.1454	.0000	.0000	-.0002	.0007	.0009	.4278	.0035	
Stddev	.0019	.000	.0000	.0004	.0004	.0000	.0006	.0001	
%RSD	1.297	145.1	126.7	158.0	61.53	2.540	.1394	3.885	
#1	.1468	.0000	.0000	.0000	.0004	.0010	.4283	.0034	
#2	.1441	.0000	.0000	-.0005	.0010	.0009	.4274	.0036	
Elem	Ag3280	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	
Avg	.0012	.0022	-.0011	.0405	.2385	.0069	.0126	-.0020	
Stddev	.0001	.0003	.0001	.0009	.0015	.0009	.0012	.0003	
%RSD	9.384	13.95	6.312	2.236	.6370	13.52	9.237	14.23	
#1	.0011	.0020	-.0012	.0412	.2374	.0076	.0134	-.0018	
#2	.0013	.0024	-.0011	.0399	.2396	.0062	.0118	-.0022	
Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	
Avg	.0965	87.04	1.722	399.2	611.1	939.5	.5596	.0010	
Stddev	.0042	1.06	.018	5.0	4.9	9.7	.0029	.0003	
%RSD	4.363	1.216	1.053	1.248	.7940	1.034	.5240	25.40	
#1	.0995	87.79	1.735	402.7	607.6	946.4	.5617	.0012	
#2	.0935	86.29	1.709	395.7	614.5	932.6	.5576	.0008	
Elem	Pd3404	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	
Avg	.0046	4.075	-.0015	1.851	.0013	.0022	F-.0279	F743.1	
Stddev	.0005	.016	.0001	.007	.0002	.0003	.0004	11.1	
%RSD	10.01	.3954	9.756	.3619	18.07	12.53	1.438	1.491	
#1	.0049	4.086	-.0016	1.855	.0012	.0023	-.0282	751.0	
#2	.0043	4.063	-.0014	1.846	.0015	.0020	-.0277	735.3	
Elem	Bi2230	Li6707							
Avg	-.0007	.0059							
Stddev	.0001	.0001							
%RSD	18.76	2.354							
#1	-.0006	.0060							
#2	-.0008	.0058							

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Sample Name: jb70546-10 Acquired: 7/3/2014 4:42:27 Type: Unk
Method: Accutest1(v205) 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	165880.	44330.	2636.4	6548.8
Stddev	217.	403.	10.9	29.9
%RSD	.13104	.90895	.41487	.45731
#1	165720.	44045.	2628.7	6527.6
#2	166030.	44615.	2644.1	6570.0

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Sample Name: ccv Acquired: 7/3/2014 4:49:03 Type: QC
Method: Accutest1(v205) 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	2.004	2.019	1.999	2.019	2.019	1.962	2.047	2.037	.2459
Stddev	.010	.008	.000	.000	.003	.000	.003	.000	.0004
%RSD	.4836	.3740	.0033	.0091	.1569	.0104	.1675	.0349	.1586
#1	2.010	2.024	1.999	2.019	2.021	1.962	2.050	2.036	.2462
#2	1.997	2.014	1.999	2.019	2.016	1.962	2.045	2.037	.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	1.991	2.049	1.988	2.055	2.026	2.019	1.984	39.25	40.78
Stddev	.004	.000	.000	.002	.001	.006	.001	.13	.15
%RSD	.1750	.0200	.0130	.1046	.0250	.2994	.0258	.3327	.3631
#1	1.993	2.048	1.988	2.056	2.026	2.023	1.984	39.34	40.89
#2	1.988	2.049	1.988	2.053	2.026	2.014	1.983	39.16	40.68
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	40.83	39.98	39.21	39.82	1.997	1.994	1.953	4.954	2.014
Stddev	.17	.05	.13	.15	.000	.000	.002	.002	.000
%RSD	.4210	.1310	.3353	.3669	.0087	.0145	.0836	.0467	.0089
#1	40.95	40.01	39.31	39.92	1.997	1.994	1.954	4.952	2.013
#2	40.71	39.94	39.12	39.72	1.997	1.994	1.952	4.955	2.014
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: 7/3/2014 4:49:03 Type: QC
Method: Accutest1(v205) 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	1.973	1.982	1.867	1.985	1.995	1.968	1.986
Stddev	.007	.004	.011	.002	.001	.003	.012
%RSD	.3716	.1797	.6108	.1221	.0259	.1713	.5992
#1	1.967	1.984	1.859	1.987	1.995	1.971	1.994
#2	1.978	1.979	1.875	1.983	1.996	1.966	1.977

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	191640.	47128.	2981.5	7783.3
Stddev	230.	62.	1.0	3.7
%RSD	.11989	.13055	.03297	.04691

#1	191470.	47172.	2982.2	7785.9
#2	191800.	47085.	2980.8	7780.8

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Sample Name: ccb Acquired: 7/3/2014 4:55:15 Type: QC
Method: Accutest1(v205) 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	.0001	.0002	.0000	.0003	-.0001	.0001	.0002
Stddev	.0001	.0000	.0000	.0001	.0000	.0001	.0000	.0000
%RSD	43.72	3.446	6.318	994.8	8.870	114.8	30.58	12.66
#1	.0002	.0001	.0002	.0001	.0003	-.0002	.0001	.0002
#2	.0001	.0001	.0002	-.0001	.0003	.0000	.0001	.0002

Check ? High Limit Low Limit
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	.0000	.0004	-.0005	-.0005	.0001	-.0001	-.0010	-.0003
Stddev	.0003	.0000	.0000	.0004	.0003	.0006	.0012	.0006
%RSD	1876.	2.931	.3221	78.38	558.0	413.0	119.0	196.3

#1	-.0002	.0004	-.0005	-.0002	.0003	.0003	-.0019	.0001
#2	.0002	.0004	-.0005	-.0008	-.0002	-.0006	-.0002	-.0007

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	-.0029	.0042	.0037	-.0002	.0959	.0717	.0011	.0006
Stddev	.0023	.0003	.0009	.0007	.0189	.0004	.0004	.0001
%RSD	77.31	7.558	25.21	404.8	19.76	.5037	32.63	22.56

#1	-.0045	.0040	.0030	-.0007	.0825	.0714	.0014	.0007
#2	-.0013	.0044	.0043	.0003	.1093	.0719	.0009	.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: 7/3/2014 4:55:15 Type: QC
Method: Accutest1(v205) 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	.0007	.0009	-.0003	.0001	.0001	.0096	.0006	W .0182
Stddev	.0014	.0002	.0003	.0000	.0001	.0014	.0001	.0028
%RSD	186.8	24.21	88.42	39.47	86.37	14.33	22.26	15.18
#1	.0017	.0007	-.0005	.0001	.0002	.0106	.0005	.0202
#2	-.0002	.0010	-.0001	.0001	.0000	.0086	.0007	.0163

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	.0006	.0004
Stddev	.0000	.0005
%RSD	3.108	113.2

#1	.0006	.0008
#2	.0006	.0001

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	200830.	47697.	3090.0	8068.2
Stddev	677.	58.	.2	1.1
%RSD	.33707	.12169	.00713	.01346

#1	201310.	47738.	3089.8	8067.4
#2	200360.	47656.	3090.1	8068.9

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Sample Name: cri Acquired: 7/3/2014 5:01:28 Type: QC
Method: Accutest1(v205) 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	.2051	.0022	.0034	.0525	.0108	.0098	.0161	.0109
Stddev	.0004	.0000	.0001	.0002	.0000	.0000	.0000	.0002
%RSD	.1979	1.883	2.107	.2956	.0135	.0169	.2979	2.210
#1	.2048	.0022	.0034	.0526	.0108	.0098	.0162	.0111
#2	.2053	.0022	.0033	.0524	.0108	.0098	.0161	.0107

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	.0050	.0539	.0213	.0089	.0116	.0031	.0115	.0065
Stddev	.0002	.0001	.0002	.0001	.0002	.0001	.0002	.0001
%RSD	3.035	.1541	.8623	.6148	2.026	4.220	1.719	1.763

#1	.0049	.0539	.0212	.0089	.0114	.0032	.0113	.0064
#2	.0051	.0540	.0214	.0089	.0118	.0030	.0116	.0066

Check ? Value Range
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	.2034	5.180	.1091	5.118	5.084	5.117	.1018	.0206
Stddev	.0034	.002	.0001	.009	.023	.005	.0003	.0001
%RSD	1.654	.0353	.0491	.1654	.4490	.1078	.3430	.4094

#1	.2058	5.179	.1092	5.112	5.068	5.121	.1021	.0207
#2	.2011	5.181	.1091	5.124	5.100	5.113	.1016	.0205

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: 7/3/2014 5:01:28 Type: QC
Method: Accutest1(v205) 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	.0597	.2028	.0100	.0106	.0105	.0553	.0099	W_.0605
Stddev	.0001	.0004	.0006	.0000	.0004	.0006	.0000	.0005
%RSD	.2010	.1945	5.555	.2041	4.282	1.121	.0243	.8738
#1	.0597	.2031	.0096	.0106	.0101	.0558	.0099	.0601
#2	.0596	.2025	.0104	.0106	.0108	.0549	.0099	.0609

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Warn
Value .0500
Range 20.00%

Elem	Bi2230	Li6707
Units	ppm	ppm
Avg	.0187	.0211
Stddev	.0007	.0003
%RSD	3.529	1.539
#1	.0182	.0208
#2	.0191	.0213

Check ? 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	199060.	47120.	3059.5	7979.2
Stddev	80.	90.	6.9	9.7
%RSD	.04037	.19062	.22617	.12135
#1	199000.	47057.	3054.6	7972.3
#2	199120.	47184.	3064.4	7986.0

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Sample Name: crid Acquired: 7/3/2014 5:07:35 Type: QC
Method: Accutest1(v205) 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	.0012	.0030	.0021	.0017	.0032	.0041
Stddev	.0002	.0000	.0001	.0001	.0003	.0003	.0000	.0000
%RSD	4.278	.9993	8.060	2.902	13.49	14.69	1.349	.0612
#1	.0040	.0010	.0011	.0030	.0023	.0019	.0032	.0041
#2	.0043	.0010	.0012	.0031	.0019	.0015	.0032	.0041

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	.0008	.0022	F_.0137	.0025	W_.0015	.0022	.0052	.0026
Stddev	.0000	.0000	.0000	.0005	.0008	.0002	.0003	.0005
%RSD	4.649	1.236	.1803	19.26	53.89	11.17	5.754	18.37
#1	.0008	.0022	.0137	.0028	.0009	.0020	.0050	.0022
#2	.0009	.0022	.0138	.0021	.0021	.0024	.0054	.0029

Check ? Chk Pass Chk Pass Chk Fail Chk Pass Chk Warn Chk Pass Chk Pass Chk Pass
Value .0100
Range 30.00% -20.00%

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0997	1.059	.0016	.1064	2.051	1.051	.0095	-.0001
Stddev	.0017	.001	.0001	.0123	.017	.002	.0000	.0000
%RSD	1.684	.1355	4.539	11.58	8.225	.1913	.2059	28.31
#1	.0985	1.058	.0017	.1151	2.039	1.053	.0095	-.0001
#2	.1009	1.060	.0016	.0977	2.063	1.050	.0095	-.0001

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: 7/3/2014 5:07:35 Type: QC
Method: Accutest1(v205) 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	.0003	.0035	-.0007	.0000	-.0001	F_.0005	F_-.0001	F_.0132
Stddev	.0001	.0001	.0002	.0001	.0002	.0001	.0001	.0003
%RSD	26.96	1.675	27.19	8.541	95.42	33.85	165.8	2.395
#1	.0004	.0035	-.0006	.0000	.0000	.0006	-.0002	.0129
#2	.0003	.0035	-.0008	.0000	-.0002	.0004	.0000	.0134

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_-.0004	F_-.0001
Stddev	.0001	.0002
%RSD	25.82	285.7
#1	-.0004	.0001
#2	-.0003	-.0003

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	200700.	47573.	3083.0	8048.7
Stddev	103.	74.	4.2	13.1
%RSD	.05117	.15529	.13736	.16251
#1	200630.	47520.	3080.0	8039.5
#2	200780.	47625.	3086.0	8058.0

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Sample Name: cria Acquired: 7/3/2014 5:13:48 Type: QC
Method: Accutest1(v205) 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	.0002	.0000	.0002	-.0002	.0000	.0000	-.0001
Stddev	.000	.000	.0002	.000	.0002	.0000	.000	.0002	.0001
%RSD	474.3	219.3	109.7	672.8	83.86	19.21	43.91	7111.	96.79
#1	.0001	.0000	.0003	-.0002	.0003	-.0002	.0000	.0001	.0000
#2	-.0001	.0000	.0000	.0002	.0001	-.0002	.0000	-.0001	-.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	.0004	.0005	.0197	-.0010	.0209	.0198	.0196	.4927	.0015
Stddev	.0001	.0001	.0002	.0008	.0002	.0001	.0003	.0035	.0010
%RSD	13.32	10.15	1.112	75.87	1.063	.6641	1.467	.7031	65.63
#1	.0003	.0006	.0196	-.0016	.0207	.0198	.0199	.4903	.0021
#2	.0004	.0005	.0199	-.0005	.0210	.0197	.0194	.4952	.0008

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	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5319	-.0078	.0580	.0278	-.0002	-.0002	.0001	.0044	-.0006
Stddev	.0011	.0135	.0002	.0031	.0001	.0000	.0004	.0004	.0003
%RSD	.2099	172.6	.4245	11.22	28.51	1.513	340.7	10.01	57.70
#1	.5326	-.0174	.0582	.0256	-.0002	-.0002	.0004	.0041	-.0008
#2	.5311	.0017	.0579	.0300	-.0003	-.0002	-.0002	.0047	-.0004

Check ? Chk Pass None None None None None None None
Value
Range

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Sample Name: cria Acquired: 7/3/2014 5:13:48 Type: QC
Method: Accutest1(v205) 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	-.0021	-.0001	.0109	-.0001	.0008
Stddev	.0000	.0001	.0008	.0001	.0002	.0005	.0009
%RSD	91.39	206.5	36.56	61.91	1.583	645.3	118.2
#1	.0000	-.0001	-.0015	-.0001	.0111	-.0004	.0014
#2	.0000	.0000	-.0026	-.0002	.0108	.0003	.0001

Check ? High Limit
Value Range Low Limit

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	201480.	47611.	3091.5	8069.1
Stddev	152.	32.	2.9	.3
%RSD	.07529	.06768	.09428	.00334
#1	201590.	47588.	3089.4	8069.0
#2	201370.	47634.	3093.5	8069.3

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Sample Name: icsa Acquired: 7/3/2014 5:20:00 Type: QC
Method: Accutest1(v205) 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	.0005	-.0012	-.0004	.0017	.0026	-.0019	.0082
Stddev	.0001	.000	.0001	.0003	.0002	.0001	.0001	.0004	.0003
%RSD	15.89	33.41	14.18	23.14	45.61	3.100	2.804	22.01	3.349
#1	-.0004	.0000	.0006	-.0014	-.0003	.0017	.0026	-.0022	.0080
#2	-.0003	.0000	.0005	-.0010	-.0006	.0016	.0027	-.0016	.0084

Check ? High Limit
Value 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	.0004	-.0001	-.0018	-.0020	.0011	.0013	.0021	.496.6	.379.7
Stddev	.0000	.0005	.0000	.0011	.0004	.0008	.0018	9.3	2.8
%RSD	3.225	437.6	1.685	53.91	32.43	65.76	86.89	1.870	.7268
#1	.0004	.0002	-.0018	-.0028	.0009	.0007	.0034	490.0	377.7
#2	.0004	-.0005	-.0018	-.0012	.0014	.0019	.0008	503.1	381.6

Check ? High Limit
Value 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	185.7	513.1	.1557	.0532	-.0009	-.0027	.0147	.0165	-.0015
Stddev	.5	2.1	.0172	.0035	.0002	.0002	.0009	.0000	.0001
%RSD	.2939	.4055	11.05	6.513	22.05	8.551	5.918	.2278	9.596
#1	185.3	511.7	.1436	.0556	-.0008	-.0028	.0153	.0165	-.0017
#2	186.1	514.6	.1679	.0507	-.0010	-.0025	.0141	.0166	-.0014

Check ? High Limit
Value Range Low Limit

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Sample Name: icsa Acquired: 7/3/2014 5:20:00 Type: QC
Method: Accutest1(v205) 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	-.0063	.0006	.0017	-.0011	.0655	.0009	.0060
Stddev	.0002	.0001	.0004	.0001	.0003	.0008	.0003
%RSD	2.645	16.54	24.01	13.05	.4418	80.65	5.476
#1	-.0062	.0007	.0020	-.0012	.0653	.0015	.0063
#2	-.0064	.0006	.0014	-.0010	.0658	.0004	.0058

Check ? High Limit
Value Range Low Limit

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	176760.	45586.	2756.6	7119.3
Stddev	261.	292.	2.1	.9
%RSD	.14758	.64135	.07595	.01282
#1	176580.	45793.	2758.1	7118.6
#2	176950.	45379.	2755.1	7119.9

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Sample Name: icsab Acquired: 7/3/2014 5:26:20 Type: QC
Method: Accutest1(v205) 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	.4809	.4885	1.006	.4766	.4773	.4996	.4902	.9562	1.006
Stddev	.0012	.0009	.000	.0001	.0002	.0001	.0001	.0002	.001
%RSD	.2459	.1876	.0404	.0276	.0499	.0199	.0200	.0191	.1305
#1	.4800	.4879	1.007	.4767	.4775	.4996	.4902	.9561	1.007
#2	.4817	.4892	1.006	.4765	.4771	.4995	.4901	.9564	1.005

Check ? High Limit
Value 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	.4712	.9661	1.007	.9640	.9411	.9917	1.015	.491.5	.371.6
Stddev	.0005	.0003	.001	.0005	.0013	.0034	.001	8.3	2.4
%RSD	.1041	.0292	.1154	.0540	.1431	.3472	.0521	1.682	.6416
#1	.4708	.9663	1.008	.9636	.9402	.9892	1.015	497.4	369.9
#2	.4715	.9659	1.007	.9643	.9421	.9941	1.015	485.7	373.3

Check ? High Limit
Value 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	186.6	517.0	.1654	.0534	-.0014	.4883	.5406	.0189	-.0015
Stddev	1.4	1.4	.0207	.0012	.0006	.0007	.0003	.0009	.0009
%RSD	.7277	.2745	12.51	2.243	44.78	.1414	.0518	4.890	63.35
#1	187.6	516.0	.1800	.0542	-.0009	.4878	.5408	.0183	-.0008
#2	185.7	518.0	.1507	.0525	-.0018	.4888	.5404	.0196	-.0021

Check ? High Limit
Value Range Low Limit

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Sample Name: icsab Acquired: 7/3/2014 5:26:20 Type: QC
Method: Accutest1(v205) 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	-0.061	.0012	.4996	.4872	.5537	.4900	.4939
Stddev	.0001	.0003	.0014	.0008	.0019	.0000	.0015
%RSD	1.654	21.07	.2770	.1605	.3445	.0028	.3066
#1	-.0060	.0011	.4986	.4867	.5551	.4900	.4928
#2	-.0061	.0014	.5005	.4878	.5524	.4900	.4950

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	176820.	45739.	2762.2	7148.9
Stddev	187.	141.	1.7	8.3
%RSD	.10589	.30773	.06273	.11585
#1	176690.	45839.	2761.0	7143.0
#2	176950.	45640.	2763.4	7154.7

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Sample Name: ccv Acquired: 7/3/2014 5:32:40 Type: QC
Method: Accutest1(v205) 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	1.986	1.885	1.996	1.980	1.979	1.988
Stddev	.023	.009	.010	.006	.002	.002	.003
%RSD	1.140	.4442	.5358	.2849	.0940	.0748	.1608
#1	2.032	1.992	1.878	2.000	1.981	1.978	1.991
#2	2.000	1.979	1.892	1.992	1.978	1.980	1.986

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	192300.	47013.	2989.3	7793.8
Stddev	715.	280.	5.9	10.1
%RSD	.37175	.59503	.19884	.12995
#1	191800.	46815.	2993.5	7800.9
#2	192810.	47211.	2985.1	7786.6

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Sample Name: ccv Acquired: 7/3/2014 5:32:40 Type: QC
Method: Accutest1(v205) 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	2.014	2.031	2.007	2.031	2.013	1.961	2.044	2.050	2.465
Stddev	.002	.043	.002	.002	.015	.001	.001	.002	.0009
%RSD	.0992	2.106	.1172	.0996	.7468	.0704	.0593	.0897	.3595
#1	2.015	2.061	2.006	2.032	2.024	1.962	2.045	2.051	2.472
#2	2.012	2.001	2.009	2.029	2.003	1.960	2.044	2.048	2.459

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	1.994	2.060	1.997	2.067	2.036	2.023	1.990	39.52	41.00
Stddev	.010	.003	.002	.001	.001	.002	.004	.01	.14
%RSD	.5120	.1369	.1108	.0566	.0453	.0898	.2060	.0354	.3313
#1	2.001	2.062	1.995	2.068	2.036	2.022	1.988	39.53	41.10
#2	1.986	2.058	1.998	2.067	2.035	2.024	1.993	39.51	40.91

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	40.92	40.28	39.45	40.12	2.001	2.003	1.967	4.972	2.021
Stddev	.12	.21	.05	.02	.002	.001	.009	.005	.001
%RSD	.2891	.5227	.1207	.0384	.1129	.0299	.4417	.1024	.0321
#1	41.01	40.43	39.49	40.11	2.000	2.002	1.973	4.969	2.021
#2	40.84	40.13	39.42	40.13	2.003	2.003	1.961	4.976	2.020

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: 7/3/2014 5:38:54 Type: QC
Method: Accutest1(v205) 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	.0001	.0002	-.0001	-.0002	.0000	.0000
Stddev	.0000	.000	.0001	.0000	.0000	.0001	.0000	.000
%RSD	137.7	329.2	69.09	14.84	29.51	44.32	48.68	821.1
#1	.0001	.0000	.0002	.0002	-.0001	-.0002	.0000	-.0001
#2	.0000	.0000	.0001	.0002	-.0001	-.0003	.0000	.0001

Check ? High Limit Low Limit
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	.0005	.0003	-.0001	-.0005	-.0012	.0001
Stddev	.0002	.0000	.0017	.0005	.0004	.0001	.0012	.0001
%RSD	179.9	.1073	375.2	201.5	268.9	19.16	105.1	57.85
#1	.0000	.0002	.0017	.0006	-.0004	-.0006	-.0020	.0001
#2	.0003	.0002	-.0008	-.0001	.0001	-.0004	-.0003	.0002

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	.0006	.0024	.0007	.0046	.0580	.0174	.0010	.0006
Stddev	.0017	.0017	.0009	.0038	.0081	.0024	.0000	.0000
%RSD	271.6	73.89	116.5	82.61	14.01	13.66	2.839	8.557
#1	-.0006	.0036	.0014	.0074	.0522	.0157	.0010	.0006
#2	.0018	.0011	.0001	.0019	.0637	.0191	.0010	.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: 7/3/2014 5:38:54 Type: QC
Method: Accutest1(v205) 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	.0012	.0001	.0000	.0000	.0114	.0004	W .0263
Stddev	.0001	.0001	.0003	.000	.0002	.0012	.0000	.0282
%RSD	34.82	4.869	341.4	215.0	404.4	10.19	2.884	107.2
#1	.0005	.0012	-.0001	.0000	-.0001	.0123	.0004	.0463
#2	.0003	.0013	.0003	.0000	.0002	.0106	.0004	.0064

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	-.0008	.0006
Stddev	.0008	.0001
%RSD	105.5	23.95

#1	-.0013	.0005
#2	-.0002	.0007

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	201320.	47384.	3087.8	8048.7
Stddev	117.	159.	14.4	28.9
%RSD	.05835	.33481	.46652	.35968

#1	201240.	47271.	3098.0	8069.2
#2	201400.	47496.	3077.6	8028.3

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	0.001199	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	0.002000	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	-0.001900	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	-0.000155	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	-0.000519	0.000000	No
			V	-0.000040	0.000000	No
			Zn	-0.000080	0.000000	No
			Ca	-0.000010	0.000000	No
			Al	-0.000011	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	-0.003700	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	-0.000002	0.000000	No
			Ca	0.000000	0.000000	No
			Mn	0.000090	0.000000	No
			Mo	0.000040	0.000000	No
			Cr	0.000450	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	-0.004110	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	-0.009700	0.000000	No
			Al	0.000006	0.000000	No
			Fe	-0.000088	0.000000	No

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
			V	-0.026000	0.000000	No
			Mn	0.001400	0.000000	No
			Ca	-0.000008	0.000000	No
			Ti	-0.002100	0.000000	No
			Mg	-0.000002	0.000000	No
			Co	0.003472	0.000000	No
			Sr	-0.000073	0.000000	No
			B	0.000913	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	-0.000400	0.000000	No
			Cd	-0.000240	0.000000	No
			Si	0.000092	0.000000	No
Pb 220.353 (453)	☒	23	Na	0.000000	0.000000	No
			Al	-0.000113	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	-0.002150	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	0.000000	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	0.000006	0.000000	No
			Ca	-0.000006	0.000000	No
			Mn	0.000223	0.000000	No
			Mo	-0.000119	0.000000	No
			Fe	-0.000262	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	0.040000	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	0.014520	0.000000	No
			V	-0.001830	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	0.041150	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	0.027685	0.000000	No
			V	-0.000190	0.000000	No
			Ti	0.006476	0.000000	No
			Al	0.000049	0.000000	No
			Cd	0.000800	0.000000	No
			Ba	0.000000	0.000000	No
			Fe	0.000129	0.000000	No
			Sn	0.000700	0.000000	No
			Zn	0.000385	0.000000	No
			As	0.000700	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}	☒	7	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
			Mg	0.000004	0.000000	No
Bi 223.061 {451}	☒	4	Ti	-0.005300	0.000000	No
			Fe	0.000035	0.000000	No
			Ti	-0.018190	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}	7/2/2014 22:04:21	7/2/2014 22:04:21	Linear	1/Conc	0.000528	1.515124	0.000000	1.000000
Be 313.042 {108}	7/2/2014 22:04:21	7/2/2014 22:04:21	Linear	1/Conc	-0.000458	2.759506	0.000000	1.000000
Cd 228.802 {448}	7/2/2014 22:04:21	7/2/2014 22:04:21	Linear	1/Conc	0.000538	1.216979	0.000000	1.000000
Co 228.616 {448}	7/2/2014 22:04:21	7/2/2014 22:04:21	Linear	1/Conc	-0.000202	0.533912	0.000000	1.000000
Cr 267.716 {126}	7/2/2014 22:04:21	7/2/2014 22:04:21	Linear	1/Conc	-0.000013	0.084884	0.000000	1.000000
Cu 324.754 {104}2	7/2/2014 22:04:21	7/2/2014 22:04:21	Linear	1/Conc	0.003736	0.236990	0.000000	1.000000
Mn 257.610 {131}	7/2/2014 22:04:21	7/2/2014 22:04:21	Linear	1/Conc	0.000055	0.490343	0.000000	1.000000
Ni 231.604 {446}	7/2/2014 22:04:21	7/2/2014 22:04:21	Linear	1/Conc	-0.000317	0.406019	0.000000	1.000000
Ag 328.068 {103}	7/2/2014 22:04:21	7/2/2014 22:04:21	Linear	1/Conc	-0.000143	0.133479	0.000000	1.000000
V 292.402 {115}	7/2/2014 22:04:21	7/2/2014 22:04:21	Linear	1/Conc	-0.000055	0.140066	0.000000	1.000000
Zn 206.200 {464}	7/2/2014 22:04:21	7/2/2014 22:04:21	Linear	1/Conc	0.000318	1.122667	0.000000	1.000000
As 189.042 {478}	7/2/2014 22:04:21	7/2/2014 22:04:21	Linear	1/Conc	-0.000104	0.190065	0.000000	1.000000
Tl 190.856 {477}	7/2/2014 22:04:21	7/2/2014 22:04:21	Linear	1/Conc	-0.000328	0.055222	0.000000	1.000000
Pb 220.353 {453}	7/2/2014 22:04:21	7/2/2014 22:04:21	Linear	1/Conc	-0.000387	0.176543	0.000000	1.000000
Se 196.090 {472}	7/2/2014 22:04:21	7/2/2014 22:04:21	Linear	1/Conc	0.000383	0.123622	0.000000	1.000000
Sb 206.833 {463}	7/2/2014 22:04:21	7/2/2014 22:04:21	Linear	1/Conc	0.000185	0.259914	0.000000	1.000000
Al 396.152 { 85}	7/2/2014 22:04:21	7/2/2014 22:04:21	Linear	1/Conc	0.000136	0.023872	0.000000	1.000000
Ca 317.933 {106}	7/2/2014 22:04:21	7/2/2014 22:04:21	Linear	1/Conc	0.005770	0.075825	0.000000	1.000000
Fe 259.940 {130}	7/2/2014 22:04:21	7/2/2014 22:04:21	Linear	1/Conc	0.000065	0.048960	0.000000	1.000000
Mg 279.079 {121}	7/2/2014 22:04:21	7/2/2014 22:04:21	Linear	1/Conc	-0.000022	0.007089	0.000000	1.000000
K 766.490 { 44}	7/2/2014 22:04:21	7/2/2014 22:04:21	Linear	1/Conc	-0.003621	0.013064	0.000000	1.000000
Na 589.592 { 57}	7/2/2014 22:04:21	7/2/2014 22:04:21	Linear	1/Conc	-0.002558	0.049606	0.000000	1.000000
B 208.959 {462}	7/2/2014 22:04:21	7/2/2014 22:04:21	Linear	1/Conc	0.000369	0.270335	0.000000	1.000000
Mo 202.030 {467}	7/2/2014 22:04:21	7/2/2014 22:04:21	Linear	1/Conc	0.000650	1.100268	0.000000	1.000000
Pd 340.458 { 99}	7/2/2014 22:04:21	7/2/2014 22:04:21	Linear	1/Conc	-0.000086	0.044647	0.000000	1.000000
Si 212.412 {459}	7/2/2014 22:04:21	7/2/2014 22:04:21	Linear	1/Conc	0.003390	0.324482	0.000000	1.000000
Sn 189.989 {478}	7/2/2014 22:04:21	7/2/2014 22:04:21	Linear	1/Conc	0.000242	0.220723	0.000000	1.000000
Sr 407.771 { 83}	7/2/2014 22:04:21	7/2/2014 22:04:21	Linear	1/Conc	-0.000323	2.504936	0.000000	1.000000
Ti 334.904 {101}	7/2/2014 22:04:21	7/2/2014 22:04:21	Linear	1/Conc	-0.000084	0.149092	0.000000	1.000000
Y 360.073 { 94}*	6/17/2014 18:19:07	12/23/2009 10:44:16	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
Y 371.030 { 91}*	6/17/2014 18:19:12	12/23/2009 10:44:16	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
Y 224.306 {451}*	7/2/2014 11:08:50	12/23/2009 10:44:16	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
In 230.606 {446}*	6/17/2014 18:19:20	12/23/2009 10:44:16	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
W 207.911 {462}	7/2/2014 22:04:21	7/2/2014 22:04:21	Linear	1/Conc	0.004518	0.519615	0.000000	1.000000
Zr 339.198 { 99}	7/2/2014 22:04:21	7/2/2014 22:04:21	Linear	1/Conc	-0.000113	0.307971	0.000000	1.000000
S 182.034 {485}	7/2/2014 22:04:22	7/2/2014 22:04:22	Linear	1/Conc	-0.000578	0.109689	0.000000	1.000000
Bi 223.061 {451}	7/2/2014 22:04:22	7/2/2014 22:04:22	Linear	1/Conc	-0.000966	0.359418	0.000000	1.000000
Li 670.784 { 50}	7/2/2014 22:04:22	7/2/2014 22:04:22	Linear	1/Conc	-0.000020	0.365027	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	0.000145	0.000485	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	0.000163	0.000542	OK	1.000000	0.000000	1	0
Co 228.616 {448}	1.000000	0.000000	0.000227	0.000756	OK	1.000000	0.000000	1	0
Cr 267.716 {126}	1.000000	0.000000	0.000294	0.000981	OK	1.000000	0.000000	1	0
Cu 324.754 {104}2	1.000000	0.000000	0.000263	0.000877	OK	1.000000	0.000000	1	0
Mn 257.610 {131}	1.000000	0.000000	0.000045	0.000150	OK	1.000000	0.000000	1	0
Ni 231.604 {446}	1.000000	0.000000	0.000270	0.000899	OK	1.000000	0.000000	1	0
Ag 328.068 {103}	1.000000	0.000000	0.000392	0.001308	OK	1.000000	0.000000	1	0
V 292.402 {115}	1.000000	0.000000	0.000238	0.000793	OK	1.000000	0.000000	1	0
Zn 206.200 {464}	1.000000	0.000000	0.000148	0.000492	OK	1.000000	0.000000	1	0
As 189.042 {478}	1.000000	0.000000	0.000771	0.002571	OK	1.000000	0.000000	1	0
Tl 190.856 {477}	1.000000	0.000000	0.001105	0.003685	OK	1.000000	0.000000	1	0
Pb 220.353 {453}	1.000000	0.000000	0.000894	0.002980	OK	1.000000	0.000000	1	0
Se 196.090 {472}	1.000000	0.000000	0.001508	0.005028	OK	1.000000	0.000000	1	0
Sb 206.833 {463}	1.000000	0.000000	0.000902	0.003006	OK	1.000000	0.000000	1	0
Al 396.152 { 85}	1.000000	0.000000	0.007257	0.024189	OK	1.000000	0.000000	1	0
Ca 317.933 {106}	1.000000	0.000000	0.001526	0.005087	OK	1.000000	0.000000	1	0
Fe 259.940 {130}	1.000000	0.000000	0.001203	0.004010	OK	1.000000	0.000000	1	0
Mg 279.079 {121}	1.000000	0.000000	0.010686	0.035620	OK	1.000000	0.000000	1	0
K 766.490 { 44}	1.000000	0.000000	0.025645	0.085482	OK	1.000000	0.000000	1	0
Na 589.592 { 57}	1.000000	0.000000	0.006787	0.022624	OK	1.000000	0.000000	1	0
B 208.959 {462}	1.000000	0.000000	0.000546	0.001821	OK	1.000000	0.000000	1	0
Mo 202.030 {467}	1.000000	0.000000	0.000184	0.000614	OK	1.000000	0.000000	1	0
Pd 340.458 { 99}	1.000000	0.000000	0.001076	0.003586	OK	1.000000	0.000000	1	0
Si 212.412 {459}	1.000000	0.000000	0.000710	0.002366	OK	1.000000	0.000000	1	0
Sn 189.989 {478}	1.000000	0.000000	0.000588	0.001960	OK	1.000000	0.000000	1	0
Sr 407.771 { 83}	1.000000	0.000000	0.000061	0.000204	OK	1.000000	0.000000	1	0
Ti 334.904 {101}	1.000000	0.000000	0.000323	0.001075	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	0.000786	0.002620	OK	1.000000	0.000000	1	0
Zr 339.198 { 99}	1.000000	0.000000	0.000144	0.000482	OK	1.000000	0.000000	1	0
S 182.034 {485}	1.000000	0.000000	0.001486	0.004952	OK	1.000000	0.000000	1	0
Bi 223.061 {451}	1.000000	0.000000	0.000902	0.003008	OK	1.000000	0.000000	1	0
Li 670.784 { 50}	1.000000	0.000000	0.000941	0.003138	OK	1.000000	0.000000	1	0

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Sample Name: STDA Acquired: 7/3/2014 10:08:26 Type: Cal
Method: Accutest1(v210) 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	-0.0005	.0006	-0.0002	.0000	.0037	.0000	-0.0004	-0.0001
Stddev	.0000	.0001	.0000	.0000	.0000	.0001	.0000	.0000	.0000
%RSD	4.517	13.55	.5788	23.41	102.6	1.525	8.321	10.96	19.60

#1	.0007	-0.0005	.0006	-0.0002	.0000	.0036	.0000	-0.0003	-0.0001
#2	.0007	-0.0005	.0006	-0.0001	.0000	.0037	.0000	-0.0004	-0.0001

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	.0000	.0000	-0.0006	-0.0004	-0.0005	.0003	.0001	.0001	.0058
Stddev	.000	.0000	.0000	.0000	.0001	.0001	.0001	.0001	.0001
%RSD	22.61	52.26	1.431	7.210	17.79	52.02	157.5	47.14	1.942

#1	.0000	.0000	-0.0006	-0.0004	-0.0005	.0004	.0001	.0001	.0058
#2	.0000	.0001	-0.0006	-0.0004	-0.0006	.0002	.0000	.0002	.0057

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	-0.0001	-0.0035	-0.0026	.0003	.0009	-0.0001	.0036	.0002
Stddev	.0000	.0000	.0001	.0000	.0001	.0001	.0000	.0001	.0000
%RSD	28.28	1.555	2.078	1.189	22.88	14.50	51.03	3.816	3.455

#1	.0001	-0.0001	-0.0035	-0.0026	.0003	.0010	.0000	.0035	.0002
#2	.0001	-0.0001	-0.0036	-0.0025	.0002	.0008	-0.0001	.0037	.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	-0.0001	.0043	-0.0002	-0.0007	-0.0010	.0002		
Stddev	.0001	.0000	.0005	.0000	.0001	.0000	.0001		
%RSD	20.72	6.238	10.77	12.08	11.04	3.755	48.39		

#1	-0.0003	-0.0001	.0040	-0.0002	-0.0007	-0.0010	.0001		
#2	-0.0004	-0.0001	.0046	-0.0002	-0.0006	-0.0010	.0002		

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Sample Name: STDA Acquired: 7/3/2014 10:08:26 Type: Cal
Method: Accutest1(v210) 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	199770.	47505.	3092.8	8032.6
Stddev	197.	306.	12.5	30.0
%RSD	.09858	.64514	.40423	.37382

#1	199630.	47721.	3101.6	8053.8
#2	199910.	47288.	3083.9	8011.3

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Sample Name: STDB Acquired: 7/3/2014 10:14:35 Type: Cal
Method: Accutest1(v210) 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	6.009	11.05	4.796	2.080	.3368	.9287	1.921	1.588	.0622
Stddev	.013	.13	.017	.005	.0056	.0144	.032	.005	.0010
%RSD	.2224	1.143	.3538	.2376	1.673	1.548	1.674	.2910	1.641

#1	6.018	10.97	4.784	2.076	.3329	.9185	1.898	1.595	.0615
#2	5.999	11.14	4.808	2.083	.3408	.9388	1.944	1.602	.0629

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	.5462	4.624	.7627	.2175	.6887	.5052	1.008	1.878	5.975
Stddev	.0090	.007	.0022	.0005	.0021	.0012	.003	.003	.020
%RSD	1.656	.1582	.2869	.2235	.2994	.2386	.3379	.1314	.3416

#1	.5398	4.619	.7612	.2171	.6872	.5043	1.005	1.880	5.989
#2	.5526	4.630	.7643	.2178	.6902	.5060	1.010	1.876	5.960

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	3.860	.5619	1.010	3.873	1.099	4.306	.1519	3.185	.8553
Stddev	.003	.0013	.001	.020	.004	.016	.0021	.009	.0034
%RSD	.0826	.2330	.0955	.5047	.3300	.3590	1.392	.2913	.3936

#1	3.862	.5609	1.010	3.887	1.096	4.295	.1504	3.178	.8530
#2	3.858	.5628	1.009	3.859	1.102	4.317	.1534	3.191	.8577

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	9.787	.5830	2.010	1.205	.4241	1.384	1.460		
Stddev	.120	.0085	.015	.018	.0009	.004	.002		
%RSD	1.222	1.466	.7622	1.453	.2130	.3067	.1263		

#1	9.702	.5770	1.999	1.193	.4234	1.381	1.461		
#2	9.872	.5891	2.020	1.217	.4247	1.387	1.459		

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Sample Name: STDB Acquired: 7/3/2014 10:14:35 Type: Cal
Method: Accutest1(v210) 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	185980.	46821.	2929.5	7684.4
Stddev	2811.	58.	9.0	19.6
%RSD	1.5112	.12438	.30695	.25497

#1	187970.	46962.	2935.9	7698.2
#2	184000.	46880.	2923.2	7670.5

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Sample Name: ccvconf Acquired: 7/3/2014 10:21:04 Type: QC									
Method: Accutest1(v210) 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	1.978	1.997	2.021	1.995	1.942	2.028	2.042	2.452
Stddev	.009	.015	.001	.002	.008	.013	.006	.000	.0017
%RSD	.4329	.7468	.0327	.0767	.3807	.6871	.2958	.0093	.6757
#1	1.985	1.967	1.997	2.022	1.989	1.933	2.024	2.042	2.441
#2	1.997	1.988	1.996	2.020	2.000	1.952	2.033	2.041	2.464
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	1.972	2.046	1.992	2.048	2.024	1.990	1.990	39.29	40.55
Stddev	.008	.001	.001	.002	.001	.001	.002	.13	.20
%RSD	.4129	.0412	.0532	.0911	.0308	.0435	.0779	.3419	.5034
#1	1.966	2.047	1.993	2.049	2.024	1.990	1.992	39.19	40.41
#2	1.978	2.045	1.991	2.047	2.024	1.989	1.989	39.38	40.70
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	39.66	39.65	39.77	1.985	2.007	1.931	4.969	2.024
Stddev	.21	.26	.13	.08	.001	.002	.013	.008	.001
%RSD	.5208	.6679	.3154	.1908	.0437	.0806	.6662	.1662	.0567
#1	40.35	39.47	39.56	39.72	1.985	2.008	1.922	4.975	2.024
#2	40.65	39.85	39.74	39.83	1.984	2.006	1.940	4.963	2.023
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: 7/3/2014 10:21:04 Type: QC									
Method: Accutest1(v210) 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	1.977	1.973	1.994	1.982	1.988	1.975	1.972		
Stddev	.043	.006	.002	.007	.000	.001	.010		
%RSD	2.191	.3230	.0801	.3776	.0145	.0294	.4885		
#1	1.947	1.968	1.993	1.977	1.988	1.976	1.965		
#2	2.008	1.977	1.995	1.988	1.988	1.975	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	192360.	47402.	2997.6	7795.1					
Stddev	585.	364.	3.4	6.0					
%RSD	.30419	.76780	.11211	.07678					
#1	192770.	47659.	2995.2	7790.9					
#2	191950.	47145.	3000.0	7799.4					

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Sample Name: ccbconf Acquired: 7/3/2014 10:27:16 Type: QC									
Method: Accutest1(v210) 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	.0000	-0.0002	.0001	.0000	.0001	-0.0001
Stddev	.0002	.0000	.000	.0001	.0000	.0001	.0000	.0000	.0003
%RSD	104.2	81.02	89.83	996.7	17.61	61.19	177.5	27.49	407.5
#1	.0000	.0000	.0000	.0000	-.0001	.0002	.0000	.0002	-.0003
#2	-.0003	.0000	.0000	.0000	-.0002	.0001	.0000	.0001	.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	.0001	-0.0006	.0010	-0.0002	.0003	-0.0016	-0.0005	.0030	.0033
Stddev	.0002	.0000	.0001	.0009	.0001	.0006	.0007	.0021	.0006
%RSD	235.3	5.046	10.07	465.1	37.52	36.23	135.6	68.56	17.16
#1	.0002	-.0006	.0010	-.0008	.0004	-.0020	-.0011	.0044	.0029
#2	-.0001	-.0006	.0009	.0004	.0002	-.0012	.0000	.0015	.0037
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	-0.0007	.0113	.0465	-0.0024	.0025	.0010	-0.0001	-0.0001	.0004
Stddev	.0000	.0017	.0147	.0024	.0001	.0001	.0000	.0000	.0004
%RSD	4.852	15.08	31.66	97.01	5.070	12.48	28.66	41.66	93.79
#1	-.0007	.0101	.0570	-.0041	.0025	.0011	-.0001	-.0001	.0001
#2	-.0007	.0125	.0361	-.0008	.0026	.0009	-.0001	-.0001	.0007
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: 7/3/2014 10:27:16 Type: QC									
Method: Accutest1(v210) 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	.0143	.0006	.0001	.0000	-0.0002		
Stddev	.0001	.0002	.0016	.0001	.0001	.0005	.0002		
%RSD	171.1	154.2	11.37	13.85	111.8	996.5	129.5		
#1	.0001	.0000	.0154	.0006	.0000	-.0003	.0000		
#2	.0000	.0003	.0131	.0005	.0002	.0004	-.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	200670.	47232.	3104.9	8058.7					
Stddev	295.	68.	14.8	40.1					
%RSD	.14710	.14324	.47516	.49789					
#1	200460.	47184.	3094.5	8030.3					
#2	200880.	47280.	3115.4	8087.0					

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Sample Name: icv Acquired: 7/3/2014 10:34:12 Type: QC									
Method: Accutest1(v210) 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	2.000	1.985	1.994	1.988	1.960	1.913	2.000	2.032	2.410
Stddev	.021	.019	.007	.009	.038	.037	.039	.008	.0040
%RSD	1.077	.9660	.3490	.4516	1.949	1.950	1.932	.3918	1.642
#1	1.976	1.963	1.989	1.979	1.995	1.949	2.035	2.025	2.451
#2	2.019	1.997	2.002	1.997	1.966	1.916	2.005	2.041	2.406
#3	2.005	1.995	1.990	1.988	1.920	1.874	1.959	2.030	2.372
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	1.925	2.035	2.027	2.034	2.009	1.997	1.974	39.13	40.80
Stddev	.037	.009	.006	.007	.008	.010	.006	.44	.46
%RSD	1.938	.4594	.2964	.3384	.4100	.4801	.3301	1.136	1.128
#1	1.960	2.028	2.024	2.027	2.002	1.990	1.970	38.64	40.30
#2	1.930	2.046	2.034	2.040	2.018	2.008	1.981	39.52	41.21
#3	1.886	2.031	2.024	2.034	2.008	1.993	1.970	39.22	40.88
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	40.82	39.65	40.51	40.18	2.015	1.939	1.917	5.012	1.994
Stddev	.43	.46	.47	.39	.008	.006	.034	.018	.007
%RSD	1.063	1.161	1.155	.9631	.4061	.3349	1.765	.3529	.3572
#1	40.37	39.16	39.99	39.77	2.010	1.934	1.950	5.001	1.989
#2	41.24	40.07	40.91	40.54	2.025	1.946	1.918	5.033	2.002
#3	40.87	39.72	40.63	40.24	2.011	1.936	1.882	5.004	1.991
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: 7/3/2014 10:48:37 Type: QC									
Method: Accutest1(v210) 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	.0001	.0001	.0001	-0.004
Stddev	.0000	.0000	.0000	.0001	.0001	.0001	.0000	.0001	.0002
%RSD	3.028	10.13	41.36	224.0	127.7	52.87	7.228	165.0	54.34
#1	.0001	.0001	.0001	.0000	.0002	.0001	.0001	.0002	-.0005
#2	.0001	.0001	.0001	.0001	.0000	.0001	.0001	.0000	-.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	.0001	.0002	.0004	.0005	.0013	.0007	-0.011	.0053
Stddev	.0001	.0001	.0006	.0007	.0000	.0004	.0000	.0004	.0008
%RSD	56.92	90.96	290.5	172.2	5.362	32.93	3.687	31.54	14.16
#1	.0003	.0000	-.0002	-.0001	.0005	.0010	.0007	-.0009	.0059
#2	.0001	.0002	.0007	.0009	.0004	.0016	.0007	-.0014	.0048
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	.0017	.0079	.0535	-0.0026	.0015	.0000	-0.0001	.0001	.0001
Stddev	.0004	.0016	.0002	.0026	.0002	.0001	.0005	.0001	.0002
%RSD	23.30	19.97	.3913	103.0	12.34	2877.	386.4	115.4	251.1
#1	.0014	.0068	.0534	-.0044	.0013	.0001	-.0005	.0000	-.0001
#2	.0019	.0090	.0537	-.0007	.0016	-.0001	.0002	.0002	.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: icv Acquired: 7/3/2014 10:34:12 Type: QC									
Method: Accutest1(v210) 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	1.982	2.070	1.995	1.932	1.936	2.016		
Stddev	.031	.037	.007	.037	.005	.006	.019		
%RSD	1.562	1.875	.3559	1.849	.2761	.3225	.9604		
#1	1.959	2.017	2.064	2.031	1.928	1.932	1.995		
#2	2.017	1.987	2.078	1.997	1.938	1.943	2.033		
#3	2.007	1.943	2.068	1.957	1.929	1.932	2.022		
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	194890.	47741.	3000.2	7811.2					
Stddev	3238.	429.	9.2	26.4					
%RSD	1.6612	.89825	.30753	.33783					
#1	191950.	48209.	3007.7	7835.8					
#2	194370.	47367.	2989.9	7783.3					
#3	198360.	47648.	3003.1	7814.4					

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Sample Name: icb Acquired: 7/3/2014 10:48:37 Type: QC									
Method: Accutest1(v210) 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	.0025	.0002	-0.0008	.0004	-0.0005		
Stddev	.0000	.0001	.0010	.0001	.0008	.0000	.0005		
%RSD	18.62	70.09	40.73	37.57	94.70	10.84	104.1		
#1	.0001	.0002	.0033	.0002	-.0014	.0005	-.0008		
#2	.0001	.0001	.0018	.0003	-.0003	.0004	-.0001		
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	200830.	48195.	3116.4	8082.5					
Stddev	571.	435.	.9	4.8					
%RSD	.28450	.90329	.02959	.05958					
#1	200420.	47887.	3115.8	8079.1					
#2	201230.	48502.	3117.1	8085.9					

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Sample Name: iccv Acquired: 7/3/2014 10:54:43 Type: QC
Method: Accutest1(v210) 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	1.996	1.996	1.995	2.009	1.988	1.937	2.021	2.033	2.454
Stddev	.033	.053	.012	.013	.009	.008	.009	.012	.0006
%RSD	1.627	2.647	.6075	.6223	.4415	.3927	.4452	.5881	.2437
#1	1.997	2.019	1.989	2.005	1.980	1.927	2.012	2.030	2.445
#2	2.001	2.006	2.000	2.017	1.981	1.938	2.015	2.041	2.454
#3	2.033	2.038	1.980	1.994	1.992	1.939	2.026	2.017	2.460
#4	1.954	1.919	2.008	2.022	1.998	1.945	2.031	2.044	2.456

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	1.966	2.039	1.991	2.038	2.013	1.995	1.979	39.46	40.64
Stddev	.008	.015	.013	.010	.013	.013	.012	.64	.73
%RSD	.3955	.7223	.6327	.5007	.6280	.6643	.5920	1.633	1.784

#1	1.958	2.036	1.985	2.037	2.010	1.988	1.975	39.48	40.83
#2	1.962	2.044	1.998	2.045	2.020	2.004	1.987	39.56	40.71
#3	1.968	2.021	1.977	2.024	1.997	1.979	1.965	40.18	41.37
#4	1.976	2.056	2.005	2.046	2.026	2.007	1.991	38.62	39.64

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: 7/3/2014 10:54:43 Type: QC
Method: Accutest1(v210) 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	192860.	47420.	3010.5	7827.7
Stddev	495.	798.	15.4	37.7
%RSD	.25647	1.6827	.51018	.48181

#1	193200.	47096.	3017.5	7845.5
#2	193210.	47343.	3006.2	7811.2
#3	192870.	46693.	3027.0	7869.9
#4	192150.	48547.	2991.3	7784.2

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Sample Name: iccv Acquired: 7/3/2014 10:54:43 Type: QC
Method: Accutest1(v210) 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	40.51	39.85	39.73	39.83	1.980	1.999	1.950	4.962	2.010
Stddev	.72	.77	.59	.61	.010	.012	.008	.027	.012
%RSD	1.780	1.934	1.493	1.540	.5245	.6225	.4291	.5388	.5975
#1	40.64	40.12	39.72	39.84	1.975	1.996	1.939	4.946	2.010
#2	40.61	39.91	39.79	39.89	1.985	2.008	1.953	4.976	2.015
#3	41.27	40.58	40.44	40.54	1.968	1.984	1.950	4.933	1.994
#4	39.53	38.77	38.99	39.04	1.991	2.011	1.959	4.991	2.022

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	1.965	1.969	1.978	1.983	1.984	1.973	1.979
Stddev	.042	.009	.016	.010	.009	.011	.033
%RSD	2.148	.4685	.7814	.5018	.4389	.5785	1.662

#1	1.992	1.959	1.969	1.971	1.978	1.967	1.981
#2	1.954	1.965	1.983	1.979	1.990	1.979	1.984
#3	2.005	1.973	1.963	1.986	1.975	1.960	2.016
#4	1.911	1.981	1.998	1.995	1.993	1.985	1.936

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: 7/3/2014 11:04:11 Type: QC
Method: Accutest1(v210) 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	.0002	.0001	.0000	.0004	.0002	.0002	-.0004
Stddev	.0001	.0000	.0001	.0000	.000	.0002	.0001	.0000	.0001
%RSD	401.3	10.95	47.36	26.79	1558.	53.50	32.36	18.04	17.33

#1	.0001	.0002	.0003	.0002	-.0002	.0003	.0001	.0002	-.0004
#2	-.0001	.0002	.0001	.0001	.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	.0003	-.0005	.0005	-.0002	.0004	-.0009	.0005	.0040	.0043
Stddev	.0000	.0001	.0004	.0001	.0011	.0000	.0008	.0036	.0009
%RSD	15.90	20.81	74.01	54.29	250.6	5.261	170.3	89.75	20.46

#1	.0003	-.0006	.0008	-.0001	.0012	-.0009	.0010	.0015	.0049
#2	.0002	-.0004	.0002	-.0003	-.0003	-.0009	-.0001	.0065	.0037

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	.0110	.0776	.0075	.0031	.0012	.0004	.0002	.0003
Stddev	.0008	.0022	.0122	.0029	.0007	.0000	.0009	.0005	.0003
%RSD	33.51	19.84	15.75	39.46	24.38	.5496	259.9	263.2	113.0

#1	.0017	.0126	.0862	.0054	.0036	.0012	-.0003	-.0002	.0005
#2	.0028	.0095	.0690	.0095	.0025	.0012	.0010	.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: ccb Acquired: 7/3/2014 11:04:11 Type: QC
Method: Accutest1(v210) 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	.0004	.0146	.0007	-.0008	.0006	-.0008
Stddev	.0000	.0001	.0021	.0000	.0003	.0000	.0004
%RSD	26.83	30.92	14.30	6.030	40.45	3.230	49.58
#1	.0001	.0003	.0161	.0007	-.0010	.0005	-.0011
#2	.0002	.0005	.0131	.0007	-.0005	.0006	-.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	199570.	47807.	3107.9	8066.3
Stddev	1277.	410.	2.8	1.7
%RSD	.63967	.85710	.08929	.02069
#1	198670.	47517.	3105.9	8065.1
#2	200470.	48097.	3109.9	8067.5

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Sample Name: cri Acquired: 7/3/2014 11:10:58 Type: QC
Method: Accutest1(v210) 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	.2031	.0022	.0032	.0517	.0104	.0098	.0159	.0108	.0048
Stddev	.0023	.0000	.0001	.0001	.0003	.0000	.0000	.0002	.0003
%RSD	1.126	2.067	2.068	.1335	2.487	.0507	.2964	1.473	5.942
#1	.2014	.0021	.0033	.0517	.0106	.0098	.0160	.0107	.0050
#2	.2047	.0022	.0032	.0518	.0102	.0098	.0159	.0110	.0046

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	.0530	.0210	.0086	.0115	.0032	.0116	.0082	.2061	5.113
Stddev	.0002	.0001	.0001	.0001	.0000	.0004	.0005	.0132	.058
%RSD	.4652	.5878	.8039	1.204	.3795	3.040	8.293	6.391	1.137
#1	.0532	.0210	.0086	.0116	.0032	.0119	.0066	.1968	5.072
#2	.0528	.0211	.0085	.0114	.0032	.0114	.0059	.2154	5.154

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	.1085	5.069	5.053	4.980	.1033	.0209	.0582	.2035	.0101
Stddev	.0016	.068	.012	.059	.0004	.0000	.0004	.0005	.0001
%RSD	1.458	1.333	.2414	1.189	.4074	.1064	.7598	.2523	1.204
#1	.1073	5.022	5.045	4.938	.1036	.0209	.0579	.2032	.0102
#2	.1096	5.117	5.062	5.022	.1030	.0209	.0585	.2039	.0100

Check ? Value
Range

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Sample Name: cri Acquired: 7/3/2014 11:10:58 Type: QC
Method: Accutest1(v210) 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	.0103	.0104	.0593	.0100	.0469	.0198	.0197
Stddev	.0001	.0001	.0010	.0001	.0010	.0003	.0006
%RSD	.6888	.9621	1.689	.8877	2.168	1.361	3.291
#1	.0103	.0103	.0600	.0101	.0462	.0200	.0192
#2	.0104	.0105	.0586	.0099	.0476	.0196	.0201

Check ? Value
Range

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	199100.	47798.	3090.9	8025.3
Stddev	648.	511.	4.0	8.0
%RSD	.32550	1.0695	.12849	.09966
#1	198640.	48159.	3093.7	8030.9
#2	199560.	47436.	3088.1	8019.6

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Sample Name: crid Acquired: 7/3/2014 11:17:05 Type: QC
Method: Accutest1(v210) 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	.0041	.0010	.0010	.0030	.0018	.0021	.0032	.0043
Stddev	.0000	.0000	.0002	.0001	.0002	.0005	.0000	.0001
%RSD	.0422	2.718	15.64	3.517	11.99	23.21	.2257	2.394
#1	.0041	.0010	.0011	.0031	.0020	.0024	.0032	.0042
#2	.0041	.0010	.0009	.0029	.0017	.0018	.0032	.0043

Check ? Value
Range

Elem	Ag3280	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	W_0008	.0021	F_0141	.0034	F_0013	F_0033	.0050	.0029
Stddev	.0002	.0000	.0000	.0005	.0004	.0007	.0017	.0002
%RSD	30.43	2.374	.2191	15.40	.33.10	21.18	33.67	6.950
#1	.0006	.0021	.0141	.0038	.0016	.0037	.0062	.0031
#2	.0009	.0021	.0142	.0031	.0010	.0028	.0038	.0028

Check ? Value
Range

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1080	1.078	.0005	.1148	2.106	1.025	.0108	.0000
Stddev	.0017	.010	.0015	.0057	.036	.009	.0003	.0001
%RSD	1.535	.9238	268.9	4.926	1.703	.8868	2.794	263.8
#1	.1068	1.085	-.0005	.1188	2.131	1.032	.0110	.0000
#2	.1092	1.071	.0016	.1108	2.081	1.019	.0106	.0001

Check ? Value
Range

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Sample Name: crid Acquired: 7/3/2014 11:17:05 Type: QC
Method: Accutest1(v210) 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	.0017	.0000	.0000	-.0001	F .0021	F -.0001	.0048
Stddev	.0001	.0004	.0001	.0000	.0001	.0000	.0000	.0016
%RSD	15.13	26.22	442.6	380.0	97.70	.0617	32.59	34.15

#1	.0005	.0014	-.0001	.0000	.0000	.0021	-.0001	.0059
#2	.0004	.0020	.0001	.0000	-.0002	.0021	.0000	.0036

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 .0001	F -.0015
Stddev	.0001	.0001
%RSD	116.5	5.735

#1	.0000	-.0015
#2	.0002	-.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	201310.	47086.	3105.5	8073.4
Stddev	444.	401.	4.4	5.4
%RSD	.22044	.85115	.14115	.06690

#1	201000.	46802.	3108.6	8077.3
#2	201630.	47369.	3102.4	8069.6

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Sample Name: cria Acquired: 7/3/2014 11:23:17 Type: QC
Method: Accutest1(v210) 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	-.0003	.0000	.0035	.0004	.0001
Stddev	.000	.0001	.0005	.000	.0000	.0005	.0000
%RSD	58.51	594.6	175.7	77.35	.8292	118.5	6.500

#1	.0000	.0001	-.0006	.0000	.0035	.0001	.0001
#2	.0000	-.0001	.0001	.0000	.0035	.0007	.0002

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	201220.	48000.	3102.1	8071.3
Stddev	103.	75.	19.7	49.8
%RSD	.05142	.15583	.63383	.61693

#1	201290.	47947.	3088.2	8036.1
#2	201140.	48053.	3116.0	8106.5

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Sample Name: cria Acquired: 7/3/2014 11:23:17 Type: QC
Method: Accutest1(v210) 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	.0000	-.0001	-.0003	.0005	.0000	.0000	-.0004
Stddev	.0000	.0000	.000	.0001	.0001	.0001	.000	.0002	.0001
%RSD	43.16	132.9	17.42	47.65	25.09	23.63	106.5	596.9	27.49

#1	-.0001	.0000	.0000	-.0001	-.0003	.0005	.0000	-.0001	-.0003
#2	-.0001	.0000	.0000	-.0001	-.0002	.0004	.0000	.0002	-.0004

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	.0008	.0198	.0000	.0219	.0214	.0206	.4893	.0038
Stddev	.000	.0000	.0006	.000	.0005	.0008	.0005	.0037	.0024
%RSD	453.0	2.985	2.859	1165.	2.109	3.894	2.673	.7559	64.83

#1	.0000	.0008	.0202	-.0002	.0216	.0219	.0209	.4867	.0055
#2	-.0001	.0008	.0194	-.0002	.0222	.0208	.0202	.4919	.0020

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	.5263	.0039	.0221	-.0073	.0008	-.0002	-.0004	.0027	-.0002
Stddev	.0003	.0020	.0041	.0014	.0002	.0001	.0004	.0001	.0004
%RSD	.0554	50.23	18.77	19.29	30.13	76.54	100.1	10.91	234.8

#1	.5261	.0053	.0250	-.0063	.0006	-.0001	-.0001	.0029	-.0005
#2	.5265	.0025	.0192	-.0083	.0010	-.0003	-.0007	.0025	.0001

Check ?	Chk Pass	None	None	None	None	None	None	None	None
Value									
Range									

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Sample Name: crid Acquired: 7/3/2014 11:29:29 Type: QC
Method: Accutest1(v210) 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	.0010	.0010	.0031	.0020	.0020	.0032	.0044
Stddev	.0000	.0000	.0001	.0001	.0001	.0004	.0001	.0001
%RSD	.5070	.4737	8.732	4.237	6.526	18.63	2.283	2.820

#1	.0040	.0010	.0010	.0030	.0021	.0023	.0032	.0045
#2	.0039	.0010	.0009	.0031	.0019	.0018	.0031	.0043

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	.0008	.0020	F .0144	.0027	W .0016	F .0039	.0058	.0033
Stddev	.0001	.0000	.0001	.0006	.0002	.0010	.0009	.0002
%RSD	13.01	1.483	.9110	22.29	10.09	25.67	14.99	5.535

#1	.0008	.0020	.0143	.0023	.0017	.0046	.0064	.0031
#2	.0009	.0020	.0145	.0032	.0014	.0032	.0052	.0034

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Warn	Chk Fail	Chk Pass	Chk Pass
Value			.0100		.0020	.0025		
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	.1088	1.061	.0011	.1143	2.072	1.013	.0107	-.0001
Stddev	.0022	.005	.0008	.0024	.017	.001	.0004	.0000
%RSD	2.002	.4302	68.94	2.066	.8165	.0905	3.535	35.47

#1	.1073	1.065	.0016	.1126	2.084	1.012	.0104	-.0001
#2	.1103	1.058	.0006	.1159	2.060	1.013	.0109	-.0001

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: 7/3/2014 11:29:29 Type: QC
Method: Accutest1(v210) 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	.0022	.0002	.0000	.0001	F -.0010	F .0000	F .0018
Stddev	.0009	.0011	.0000	.0000	.0000	.0001	.000	.0001
%RSD	587.3	51.55	10.72	44.62	26.42	10.99	500.4	7.485
#1	.0005	.0014	.0003	.0000	.0001	-.0011	.0000	.0019
#2	-.0008	.0030	.0002	.0000	.0001	-.0009	-.0001	.0017

Check ?
Value
Range

None	None	None	None	None	None	Chk Fail .0040 -30.00%	Chk Fail .0040 -30.00%	Chk Fail .0040 -30.00%
------	------	------	------	------	------	------------------------------	------------------------------	------------------------------

Elem	Bi2230	Li6707
Units	ppm	ppm
Avg	F .0001	F -.0007
Stddev	.0001	.0001
%RSD	91.18	19.60

#1	.0000	-.0008
#2	.0001	-.0006

Check ?
Value
Range

Chk Fail .0040 -30.00%	Chk Fail .0040 -30.00%
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Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	202000.	47778.	3100.5	8048.9
Stddev	1500.	119.	.3	.9
%RSD	.74250	.24971	.00819	.01169

#1	200940.	47693.	3100.4	8049.6
#2	203060.	47862.	3100.7	8048.3

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Sample Name: icsa Acquired: 7/3/2014 11:35:40 Type: QC
Method: Accutest1(v210) 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	-0.006	.0000	.0009	-.0013	-.0009	.0018	.0039	-.0016	.0050
Stddev	.0001	.0000	.0001	.0001	.0000	.0000	.0000	.0002	.0006
%RSD	25.28	139.4	9.872	7.505	2.025	.8260	.2350	14.04	10.96
#1	-.0005	.0001	.0008	-.0012	-.0009	.0018	.0039	-.0017	.0054
#2	-.0007	.0000	.0010	-.0014	-.0009	.0018	.0039	-.0014	.0046

Check ?
High Limit
Low Limit

Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
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Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	-.0001	-.0038	.0028	-.0013	.0006	.0009	492.6	380.9
Stddev	.0002	.0001	.0018	.0009	.0016	.0004	.0023	1.4	2.3
%RSD	60.37	186.8	46.62	33.62	120.6	74.56	243.4	.2844	.5914

#1	.0002	-.0001	-.0026	.0021	-.0024	.0003	-.0007	493.6	379.3
#2	.0004	-.0000	-.0051	.0035	-.0002	.0009	.0026	491.6	382.5

Check ?
High Limit
Low Limit

Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
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Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	186.2	514.1	.1762	.0107	-.0004	-.0022	.0113	.0161	-.0015
Stddev	1.0	2.9	.0021	.0102	.0008	.0003	.0009	.0004	.0003
%RSD	.5175	.5715	1.189	95.82	215.4	15.57	8.098	2.633	20.73

#1	186.9	516.2	.1747	.0179	-.0009	-.0020	.0107	.0164	-.0018
#2	185.5	512.1	.1776	.0034	.0002	-.0024	.0120	.0158	-.0013

Check ?
High Limit
Low Limit

Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
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Sample Name: icsa Acquired: 7/3/2014 11:35:40 Type: QC
Method: Accutest1(v210) 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	-.0062	.0011	.0030	-.0009	.0453	.0021	.0045
Stddev	.0002	.0004	.0000	.0000	.0030	.0005	.0000
%RSD	3.212	33.76	.2994	.1927	6.531	23.54	.6085
#1	-.0061	.0014	.0031	-.0009	.0432	.0024	.0045
#2	-.0064	.0008	.0030	-.0009	.0474	.0017	.0045

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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Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	177680.	45672.	2786.6	7168.0
Stddev	573.	30.	9.7	16.0
%RSD	.32270	.06655	.34810	.22294

#1	177270.	45651.	2779.7	7156.7
#2	178080.	45694.	2793.4	7179.3

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Sample Name: ICSAB Acquired: 7/3/2014 11:42:00 Type: QC
Method: Accutest1(v210) 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	.4789	.4808	1.002	.4737	.4683	.4916	.4826	.9500	.9958
Stddev	.0002	.0005	.005	.0022	.0017	.0023	.0011	.0033	.0020
%RSD	.0325	.0936	.5227	.4660	.3527	.4737	.2295	.3472	.2026
#1	.4787	.4805	.9979	.4721	.4671	.4899	.4818	.9477	.9944
#2	.4790	.4811	1.005	.4752	.4694	.4932	.4833	.9523	.9972

Check ?
Value
Range

Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
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Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4623	.9593	.9999	.9579	.9397	.9681	1.010	484.5	369.1
Stddev	.0016	.0043	.0063	.0040	.0021	.0009	.005	4.0	2.3
%RSD	.3408	.4511	.6329	.4188	.2242	.0897	.5394	.8176	.6122

#1	.4612	.9563	.9955	.9551	.9382	.9875	1.006	487.3	367.5
#2	.4634	.9624	1.004	.9608	.9412	.9888	1.014	481.7	370.7

Check ?
Value
Range

Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
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Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	184.0	509.2	.1635	.0054	-.0013	.4874	.5336	.0164	-.0008
Stddev	1.7	.0	.0191	.0053	.0003	.0027	.0024	.0020	.0010
%RSD	.8992	.0038	11.67	98.56	20.87	.5582	.4474	11.92	115.0

#1	185.1	509.2	.1770	.0016	-.0015	.4854	.5319	.0150	-.0002
#2	182.8	509.3	.1500	.0092	-.0011	.4893	.5353	.0178	-.0015

Check ?
Value
Range

Chk Pass	Chk Pass	None	None	None	Chk Pass	Chk Pass	None	None	None
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Sample Name: ICSAB Acquired: 7/3/2014 11:42:00 Type: QC
Method: Accutest1(v210) 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	-0.0060	.0009	.5036	.4840	.5304	.4892	.4870
Stddev	.0001	.0001	.0024	.0024	.0021	.0022	.0001
%RSD	2.168	13.41	.4837	.4994	.4038	.4577	.0205
#1	-.0059	.0009	.5019	.4823	.5319	.4876	.4870
#2	-.0061	.0010	.5053	.4857	.5289	.4908	.4869

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	178100.	46225.	2793.4	7202.2
Stddev	431.	79.	9.8	19.7
%RSD	.24196	.17192	.34961	.27314

#1	178400.	46168.	2800.3	7216.1
#2	177790.	46281.	2786.5	7188.3

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Sample Name: feconf Acquired: 7/3/2014 11:48:17 Type: Unk
Method: Accutest1(v210) 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	-0.001	.0000	.0002	-0.0007	-0.0006	.0025	.0063	.0001
Stddev	.0001	.000	.0002	.0003	.0000	.0004	.0001	.0003
%RSD	38.85	617.8	102.2	44.20	.6646	14.92	1.268	385.2

#1	-.0002	.0000	.0000	-.0005	-.0006	.0023	.0062	.0003
#2	-.0001	.0000	.0003	-.0009	-.0006	.0028	.0063	-.0001

Elem	Ag3280	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068
Avg	.0026	.0001	.0043	-0.0025	F -.0022	.0027	-0.0048	.0055
Stddev	.0012	.0001	.0003	.0007	.0001	.0007	.0001	.0010
%RSD	44.57	91.75	7.457	26.49	3.267	27.28	2.993	18.40

#1	.0018	.0002	.0041	-.0020	-.0022	.0022	-.0049	.0062
#2	.0034	.0000	.0045	-.0030	-.0021	.0033	-.0047	.0048

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Avg	-0.0020	-0.0052	214.1	-0.0427	.1482	-0.0031	-0.0014	.0003
Stddev	.0008	.0002	.8	.0032	.0015	.0003	.0001	.0001
%RSD	41.95	3.887	.3566	7.462	1.031	10.93	4.568	25.83

#1	-.0014	-.0050	214.6	-.0449	.1472	-.0029	-.0013	.0004
#2	-.0026	-.0053	213.5	-.0404	.1493	-.0034	-.0014	.0003

Elem	Pd3404	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820
Avg	.0195	-0.0206	-0.0022	.0000	.0001	.0046	.0009	.0086
Stddev	.0002	.0007	.000	.000	.0001	.0006	.0001	.0003
%RSD	1.067	.5679	30.83	157.7	104.5	12.21	14.71	3.394

#1	.0196	-.0205	-.0027	.0000	.0001	.0049	.0008	.0084
#2	.0193	-.0207	-.0017	.0000	.0000	.0042	.0010	.0088

Elem	Bi2230	Li6707
Avg	.0059	-0.0023
Stddev	.0012	.0001
%RSD	20.48	3.548

#1	.0051	-.0023
#2	.0068	-.0022

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Sample Name: feconf Acquired: 7/3/2014 11:48:17 Type: Unk
Method: Accutest1(v210) 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	199250.	47844.	3069.4	8235.6
Stddev	1849.	42.	13.2	25.6
%RSD	.92815	.08683	.43027	.31107

#1	197940.	47814.	3060.1	8217.5
#2	200550.	47873.	3078.8	8253.7

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Sample Name: crconf Acquired: 7/3/2014 11:54:31 Type: Unk
Method: Accutest1(v210) 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	.0003	.0001	-0.0001	.0014	10.23	.0000	.0001	-0.0002
Stddev	.0000	.0000	.0002	.0001	.06	.0002	.0000	.0002
%RSD	13.40	6.454	189.2	6.295	.5527	1732.	6.092	92.41

#1	.0003	.0001	-.0003	.0014	10.27	.0001	.0001	-.0003
#2	.0003	.0001	.0000	.0015	10.19	-.0001	.0001	-.0001

Elem	Ag3280	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068
Avg	-0.0003	.0040	.0033	F -.0046	-0.0007	.0010	-0.0004	.0091
Stddev	.0001	.0001	.0002	.0005	.0008	.0003	.0013	.0001
%RSD	48.04	1.508	4.803	11.28	113.7	26.72	322.8	1.191

#1	-.0002	.0040	.0032	-.0042	-.0001	.0008	.0005	.0091
#2	-.0004	.0041	.0034	-.0049	-.0012	.0012	-.0013	.0090

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Avg	.0016	-0.0171	.0115	.0077	.0354	-0.0021	-0.0002	.0008
Stddev	.0039	.0004	.0006	.0006	.0011	.0008	.0004	.0001
%RSD	250.8	2.275	5.027	7.371	3.252	37.83	176.5	9.714

#1	.0043	-.0169	.0111	.0081	.0345	-.0015	.0000	.0008
#2	-.0012	-.0174	.0119	.0073	.0362	-.0026	-.0004	.0007

Elem	Pd3404	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820
Avg	-0.0011	-0.0091	-0.0004	.0000	.0012	-0.0042	-0.0063	.0048
Stddev	.0004	.0002	.0001	.0000	.0000	.0005	.0001	.0007
%RSD	39.06	2.108	12.72	187.3	1.833	11.50	1.980	13.70

#1	-.0014	-.0093	-.0005	.0000	.0012	-.0038	-.0064	.0052
#2	-.0008	-.0090	-.0004	.0001	.0012	-.0045	-.0063	.0043

Elem	Bi2230	Li6707
Avg	.0041	-0.0012
Stddev	.0004	.0000
%RSD	9.438	3.719

#1	.0038	-.0012
#2	.0043	-.0011

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Sample Name: crconf Acquired: 7/3/2014 11:54:31 Type: Unk
Method: Accutest1(v210) 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	201380.	47588.	3059.1	8084.6
Stddev	1132.	126.	6.5	16.3
%RSD	.56190	.26507	.21241	.20159
#1	200580.	47677.	3054.5	8073.0
#2	202180.	47499.	3063.7	8096.1

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Sample Name: ccv Acquired: 7/3/2014 12:00:40 Type: QC
Method: Accutest1(v210) 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	2.010	2.027	2.006	2.026	1.999	1.950	2.034	2.043	2.465
Stddev	.005	.023	.003	.006	.014	.019	.016	.004	.0017
%RSD	.2705	1.120	.1524	.2864	.6925	.9666	.8011	.2202	.7006
#1	2.006	2.011	2.008	2.030	2.008	1.964	2.046	2.046	2.477
#2	2.013	2.043	2.004	2.022	1.989	1.937	2.023	2.040	2.453

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	1.977	2.054	1.999	2.049	2.029	2.007	1.999	39.75	40.97
Stddev	.015	.004	.004	.006	.005	.005	.003	.02	.02
%RSD	.7433	.2079	.2122	.2784	.2245	.2675	.1448	.0558	.0386
#1	1.988	2.057	2.002	2.053	2.032	2.011	2.001	39.74	40.96
#2	1.967	2.051	1.996	2.045	2.025	2.003	1.997	39.77	40.98

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	40.87	40.07	40.06	40.19	1.993	2.011	1.947	5.003	2.029
Stddev	.05	.07	.01	.02	.004	.003	.023	.009	.003
%RSD	.1203	.1706	.0211	.0461	.2235	.1540	1.163	.1708	.1676
#1	40.84	40.03	40.06	40.20	1.996	2.013	1.963	5.009	2.032
#2	40.91	40.12	40.07	40.17	1.990	2.009	1.931	4.997	2.027

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: 7/3/2014 12:00:40 Type: QC
Method: Accutest1(v210) 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	1.968	1.961	1.962	1.986	1.999	1.985	1.988
Stddev	.036	.019	.004	.021	.002	.004	.005
%RSD	1.812	.9740	.2064	1.063	.0894	.1938	.2664
#1	1.993	1.995	1.959	2.001	1.998	1.988	1.984
#2	1.942	1.967	1.965	1.971	2.001	1.982	1.992

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	192450.	47064.	2991.3	7788.2
Stddev	1414.	15.	3.3	14.3
%RSD	.73463	.03192	.10959	.18338
#1	191450.	47053.	2989.0	7778.1
#2	193450.	47074.	2993.6	7798.3

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Sample Name: ccb Acquired: 7/3/2014 12:06:53 Type: QC
Method: Accutest1(v210) 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	-0.002	.0000	.0000	.0000	-0.001	.0000	.0000	.0001	-0.002
Stddev	.0000	.0000	.000	.0000	.0001	.000	.0000	.0003	.0004
%RSD	22.53	1480.	480.2	415.7	153.8	660.8	12.82	351.0	239.5
#1	-0.002	.0000	-0.002	.0000	-0.002	-0.001	.0000	-0.001	.0001
#2	-0.002	.0000	.0001	.0000	.0000	.0001	.0000	.0003	-0.004

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	-0.002	.0003	.0002	.0003	-0.007	.0006	-0.042	-0.001
Stddev	.0000	.0001	.0011	.0010	.0003	.0012	.0008	.0014	.0026
%RSD	13.77	58.29	312.1	626.7	105.4	172.1	134.6	33.04	1895.
#1	.0002	-0.003	.0011	.0008	.0001	-0.015	.0011	-0.051	.0017
#2	.0002	-0.001	-0.004	-0.005	.0006	.0001	.0000	-0.032	-0.020

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	-0.010	.0072	.0450	-0.139	.0015	.0004	-0.002	.0021	-0.003
Stddev	.0004	.0004	.0161	.0007	.0001	.0001	.0007	.0002	.0001
%RSD	39.89	5.904	35.85	5.094	5.980	21.14	344.2	11.95	20.47
#1	-0.0007	.0069	.0564	-0.134	.0015	.0004	.0003	.0019	-0.003
#2	-0.0013	.0075	.0336	-0.144	.0014	.0003	-0.007	.0023	-0.004

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: 7/3/2014 12:06:53 Type: QC
Method: Accutest1(v210) 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	-0.0001	.0000	.0067	.0004	.0003	.0003	-.0004
Stddev	.0001	.0002	.0010	.0000	.0006	.0007	.0004
%RSD	102.8	1388.	14.65	11.48	209.8	213.3	114.4
#1	.0000	-.0001	.0074	.0005	.0007	.0009	-.0007
#2	-.0001	.0001	.0060	.0004	-.0001	-.0002	-.0001

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	201150.	47785.	3106.0	8084.0
Stddev	499.	50.	4.9	3.9
%RSD	.24832	.10558	.15759	.04851
#1	200790.	47749.	3109.5	8086.8
#2	201500.	47820.	3102.6	8081.2

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Sample Name: mp80415-b1 3 Acquired: 7/3/2014 12:13:05 Type: Unk
Method: Accutest1(v210) 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	2.098	.0528	.0519	.5299	.2122	.2472	.5480	.5510	.0500
Stddev	.036	.0010	.0001	.0006	.0002	.0001	.0019	.0005	.0003
%RSD	1.717	1.846	.1011	.1143	.0828	.0427	.3381	.0980	.5849
#1	2.072	.0521	.0519	.5304	.2121	.2472	.5493	.5514	.0502
#2	2.123	.0535	.0520	.5295	.2123	.2471	.5467	.5506	.0498

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.5101	.5817	2.127	2.168	2.218	2.154	.5314	2.039	.0164
Stddev	.0015	.0011	.002	.006	.004	.005	.0004	.003	.0003
%RSD	.2881	.1873	.1041	.2601	.1849	.2458	.0841	1.614	1.883
#1	.5111	.5825	2.129	2.172	2.221	2.157	.5317	2.016	.0162
#2	.5090	.5810	2.126	2.164	2.215	2.150	.5311	2.063	.0166

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	1.110	.0131	.0619	.0742	.0022	.0012	.0025	.2319	.0003
Stddev	.013	.0023	.0141	.0027	.0000	.0001	.0007	.0002	.0003
%RSD	1.188	17.96	22.70	3.622	.5669	10.72	28.22	.0966	74.11
#1	1.100	.0147	.0520	.0723	.0022	.0012	.0030	.2321	.0002
#2	1.119	.0114	.0719	.0761	.0022	.0011	.0020	.2318	.0005

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Avg	.0057	.0016	.0059	-.0013	.5467	-.0013	-.0010
Stddev	.0001	.0001	.0001	.0000	.0016	.0003	.0002
%RSD	1.678	7.245	1.894	2.771	.2972	23.88	22.71
#1	.0056	.0015	.0060	-.0013	.5479	-.0016	-.0012
#2	.0058	.0017	.0058	-.0013	.5456	-.0011	-.0009

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	202860.	48891.	3081.3	8049.4
Stddev	679.	442.	6.4	18.5
%RSD	.33478	.90337	.20653	.22926
#1	202380.	49203.	3076.8	8036.3
#2	203340.	48579.	3085.8	8062.4

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Sample Name: mp80415-s1 Acquired: 7/3/2014 12:19:05 Type: Unk
Method: Accutest1(v210) 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	2.068	.0522	.0508	.5079	.2658	.2509	.5460	.5270	.0488
Stddev	.002	.0001	.0001	.0017	.0006	.0008	.0017	.0013	.0004
%RSD	.0808	.1630	.2518	.3310	.2292	.3058	.3057	.2452	.8743
#1	2.070	.0522	.0509	.5091	.2663	.2514	.5472	.5279	.0491
#2	2.067	.0521	.0507	.5067	.2654	.2503	.5448	.5260	.0485

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.5026	.6474	2.060	2.096	2.128	2.085	.5102	2.924	8.157
Stddev	.0012	.0015	.004	.009	.009	.007	.0015	.005	.004
%RSD	.2436	.2366	.1854	.4429	.3996	.3597	.3024	.1660	.0518
#1	.5034	.6485	2.063	2.102	2.134	2.091	.5113	2.920	8.154
#2	.5017	.6463	2.058	2.089	2.122	2.080	.5091	2.927	8.160

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	4.128	.7000	3.099	15.57	.1268	.0023	.0027	8.427	-.0008
Stddev	.004	.0112	.008	.00	.0009	.0001	.0002	.021	.0001
%RSD	.0974	1.602	.2576	.0235	.7309	3.348	6.489	.2472	17.22
#1	4.132	.6920	3.104	15.57	.1274	.0023	.0026	8.442	-.0009
#2	4.126	.7079	3.093	15.56	.1261	.0022	.0029	8.412	-.0007

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Avg	.1254	.0284	.0043	-.0015	2.426	-.0018	.0007
Stddev	.0002	.0003	.0009	.0001	.008	.0004	.0003
%RSD	.1321	1.093	21.63	5.094	.3139	23.02	47.15
#1	.1255	.0286	.0049	-.0016	2.432	-.0021	.0005
#2	.1253	.0281	.0036	-.0015	2.421	-.0015	.0009

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	200670.	48483.	3083.0	8040.8
Stddev	583.	14.	1.2	6.0
%RSD	.29052	.02911	.03913	.07406
#1	200260.	48493.	3082.1	8036.6
#2	201080.	48473.	3083.8	8045.0

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Sample Name: mp80415-s2 Acquired: 7/3/2014 12:25:04 Type: Unk
Method: Accutest1(v210) 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	.0542	.0526	.5310	.2779	.2640	.5724	.5497	.0511
Stddev	.001	.0001	.0000	.0005	.0025	.0033	.0050	.0001	.0009
%RSD	.0363	.1936	.0706	.0992	.9071	1.231	.8718	.0119	1.824
#1	2.146	.0541	.0526	.5314	.2761	.2617	.5689	.5497	.0505
#2	2.145	.0543	.0525	.5307	.2796	.2663	.5760	.5496	.0518

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.5266	.6761	2.154	2.190	2.228	2.173	.5327	2.967	8.510
Stddev	.0055	.0009	.002	.002	.002	.002	.0004	.013	.041
%RSD	1.037	1.384	.1023	.0827	.0687	.0711	.0673	.4407	.4849
#1	.5228	.6767	2.156	2.191	2.229	2.174	.5329	2.958	8.480
#2	.5305	.6754	2.153	2.189	2.226	2.172	.5324	2.976	8.539

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	4.279	.7228	3.230	16.27	.1324	.0022	.0026	8.677	-.0011
Stddev	.007	.0019	.005	.01	.0002	.0001	.0005	.002	.0004
%RSD	.1550	.2578	.1688	.0467	.1502	5.790	20.29	.0217	32.86
#1	4.275	.7215	3.226	16.27	.1325	.0023	.0030	8.678	-.0014
#2	4.284	.7242	3.234	16.28	.1323	.0022	.0023	8.676	-.0009

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Avg	.1310	.0234	.0034	-.0018	2.552	-.0025	.0009
Stddev	.0002	.0005	.0002	.0001	.003	.0001	.0006
%RSD	.1740	2.307	5.820	6.880	.0980	5.152	66.70
#1	.1308	.0238	.0035	-.0017	2.554	-.0024	.0013
#2	.1312	.0230	.0032	-.0019	2.551	-.0026	.0005

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	199270.	48400.	3063.1	7991.0
Stddev	1287.	240.	1.5	2.1
%RSD	.64586	.49646	.04800	.02583
#1	200180.	48569.	3064.1	7989.6
#2	198360.	48230.	3062.1	7992.5

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◀ Zoom In ▶
Zoom Out

Sample Name: jb69614-2r Acquired: 7/3/2014 12:31:04 Type: Unk
Method: Accutest1(v210) 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	.0296	.0001	.0005	.0001	.0613	.0146	.0220	.0015	.0002
Stddev	.0000	.0000	.0001	.0002	.0001	.0001	.0000	.0000	.0002
%RSD	.1629	26.35	12.44	197.6	.1705	.3715	.0363	.1094	106.7
#1	.0295	.0001	.0004	.0000	.0614	.0146	.0220	.0015	.0001
#2	.0296	.0001	.0005	.0002	.0612	.0147	.0220	.0015	.0004
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0077	.0926	.0063	.0014	.0132	.0014	.0023	1.044	8.314
Stddev	.0001	.0002	.0002	.0007	.0001	.0004	.0000	.009	.005
%RSD	.7095	.1732	2.679	49.03	1.118	30.26	1.956	.8843	.0596
#1	.0077	.0927	.0064	.0009	.0131	.0011	.0022	1.050	8.317
#2	.0077	.0925	.0062	.0019	.0133	.0017	.0023	1.037	8.310
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	3.154	.7183	3.186	15.79	.1293	.0011	.0003	8.783	.0010
Stddev	.004	.0035	.007	.00	.0002	.0001	.0001	.010	.0001
%RSD	.1265	.4860	.2144	.0226	.1635	7.581	30.97	.1114	9.465
#1	3.156	.7158	3.181	15.79	.1294	.0011	.0004	8.776	.0009
#2	3.151	.7207	3.191	15.78	.1291	.0010	.0003	8.790	.0011
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.1274	.0385	.0009	.0001	2.481	.0002	.0004		
Stddev	.0001	.0002	.0000	.0000	.004	.0001	.0005		
%RSD	.0476	.5665	4.794	43.32	.1752	523.0	119.4		
#1	.1274	.0386	.0009	.0000	2.478	.0006	.0007		
#2	.1273	.0383	.0008	.0001	2.484	.0010	.0001		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	199930.	48600.	3061.6	8006.1					
Stddev	311.	124.	1.1	.6					
%RSD	.15531	.25537	.03674	.00729					
#1	200150.	48513.	3062.4	8006.5					
#2	199710.	48688.	3060.8	8005.7					

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Sample Name: mp80415-sd1 Acquired: 7/3/2014 12:37:11 Type: Unk
Method: Accutest1(v210) 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	.0307	.0001	.0003	.0002	.0628	.0168	.0236	.0021	.0010
Stddev	.0009	.0001	.0005	.0010	.0015	.0013	.0001	.0000	.0010
%RSD	2.981	105.9	171.8	418.5	2.347	7.999	.5457	.5638	101.1
#1	.0314	.0001	.0001	.0005	.0638	.0159	.0237	.0021	.0017
#2	.0301	.0000	.0007	.0009	.0617	.0178	.0235	.0021	.0003
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0082	.1023	.0035	.0007	.0173	.0024	.0038	1.084	8.753
Stddev	.0008	.0000	.0011	.0008	.0034	.0042	.0010	.003	.096
%RSD	9.604	.0027	31.74	113.9	19.56	175.2	27.40	.2527	1.093
#1	.0077	.1023	.0043	.0001	.0196	.0006	.0045	1.086	8.685
#2	.0088	.1023	.0027	.0013	.0149	.0054	.0031	1.082	8.820
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	3.304	.7508	3.581	16.38	.1326	.0002	.0029	9.047	.0001
Stddev	.029	.0641	.002	.05	.0005	.0002	.0002	.004	.0021
%RSD	.8916	8.544	.0523	.3306	.4012	95.07	5.868	.0409	2148.
#1	3.284	.7961	3.583	16.34	.1330	.0001	.0030	9.044	.0016
#2	3.325	.7054	3.580	16.42	.1322	.0004	.0027	9.049	.0014
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.1329	.0400	.0196	.0003	2.580	.0021	.0026		
Stddev	.0013	.0006	.0005	.0005	.002	.0019	.0018		
%RSD	1.003	1.436	2.333	193.3	.0921	92.30	67.37		
#1	.1319	.0404	.0199	.0001	2.582	.0034	.0039		
#2	.1338	.0396	.0192	.0006	2.579	.0007	.0014		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	200890.	48359.	3088.9	8065.0					
Stddev	138.	540.	1.5	9.6					
%RSD	.06890	1.1169	.04921	.11850					
#1	200800.	48741.	3087.8	8058.3					
#2	200990.	47977.	3090.0	8071.8					

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◀ Zoom In ▶
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Sample Name: mp80415-mb1 3 Acquired: 7/3/2014 12:43:17 Type: Unk
Method: Accutest1(v210) 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	.0060	.0001	.0001	.0001	.0020	.0086	.0032	.0011	.0003
Stddev	.0001	.0000	.0001	.0000	.0002	.0000	.0001	.0002	.0003
%RSD	1.257	11.66	96.00	3.984	10.94	.3813	2.281	19.25	124.2
#1	.0060	.0001	.0000	.0002	.0021	.0086	.0033	.0009	.0000
#2	.0061	.0001	.0002	.0001	.0018	.0085	.0032	.0012	.0005
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0002	.0138	.0009	.0013	.0061	.0007	.0002	.0655	.2138
Stddev	.0001	.0002	.0002	.0009	.0006	.0014	.0005	.0005	.0020
%RSD	57.87	1.115	25.58	68.53	10.20	189.8	257.6	.7084	.9231
#1	.0003	.0139	.0007	.0007	.0065	.0002	.0005	.0658	.2152
#2	.0001	.0137	.0011	.0019	.0057	.0017	.0001	.0652	.2124
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0809	.0495	.0651	.0565	.0011	.0003	.0005	.4921	.0005
Stddev	.0009	.0044	.0026	.0019	.0004	.0001	.0001	.0015	.0003
%RSD	1.079	8.798	4.055	3.442	31.48	38.74	13.11	.2979	67.87
#1	.0803	.0465	.0632	.0551	.0009	.0003	.0005	.4910	.0002
#2	.0815	.0526	.0669	.0579	.0014	.0002	.0004	.4931	.0007
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0063	.0006	.0041	.0001	1.528	.0007	.0014		
Stddev	.0000	.0001	.0002	.0001	.003	.0004	.0007		
%RSD	.4834	10.84	4.738	58.29	.2200	57.87	49.19		
#1	.0063	.0005	.0043	.0001	1.525	.0004	.0009		
#2	.0062	.0006	.0040	.0001	1.530	.0010	.0019		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	202160.	48422.	3084.2	8048.2					
Stddev	636.	283.	2.1	7.8					
%RSD	.31479	.58527	.06745	.09644					
#1	202610.	48622.	3085.7	8053.7					
#2	201710.	48222.	3082.7	8042.7					

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Sample Name: mp80388-mb1 2 Acquired: 7/3/2014 12:49:25 Type: Unk
Method: Accutest1(v210) 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	.0003	.0003	.0000	.0001	.0004
Stddev	.0000	.000	.000	.0000	.0003	.0000	.000	.0001	.0002
%RSD	18.39	52.90	333.9	45.19	78.31	15.87	55.57	85.00	56.54
#1	.0001	.0000	.0000	.0001	.0005	.0003	.0000	.0002	.0002
#2	.0001	.0000	.0001	.0001	.0001	.0003	.0000	.0000	.0005
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0000	.0004	.0000	.0010	.0001	.0005	.0000	.0008	.0004
Stddev	.0001	.0000	.000	.0007	.0000	.0008	.0001	.0022	.0005
%RSD	328.7	5.158	607.2	65.91	20.17	179.4	561.0	277.1	132.1
#1	.0000	.0004	.0000	.0014	.0001	.0011	.0000	.0008	.0008
#2	.0001	.0004	.0000	.0005	.0001	.0001	.0001	.0024	.0000
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0007	.0022	.0521	.0104	.0001	.0005	.0000	.0010	.0005
Stddev	.0004	.0073	.0075	.0080	.0000	.0000	.0004	.0004	.0000
%RSD	56.18	327.4	14.39	77.08	60.71	6.907	36.98	6.931	1.728
#1	.0010	.0074	.0574	.0161	.0001	.0005	.0007	.0061	.0005
#2	.0004	.0029	.0468	.0047	.0000	.0005	.0012	.0055	.0005
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0000	.0001	.0052	.0001	.0005	.0002	.0007		
Stddev	.000	.0002	.0005	.0000	.0003	.0003	.0007		
%RSD	1223.	408.3	9.456	9.739	64.67	203.6	94.85		
#1	.0000	.0002	.0048	.0001	.0003	.0001	.0012		
#2	.0000	.0001	.0055	.0001	.0007	.0004	.0002		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	200930.	47919.	3096.8	8056.1					
Stddev	1023.	199.	1.6	6.1					
%RSD	.50913	.41459	.05043	.07632					
#1	200210.	48059.	3095.7	8051.8					
#2	201650.	47778.	3097.9	8060.5					

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Sample Name: icsa Acquired: 7/3/2014 12:55:34 Type: QC									
Method: Accutest1(v210) 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	-0.006	.0000	.0007	-0.010	-0.007	.0022	.0034	-0.019	.0027
Stddev	.0000	.000	.0001	.0001	.0001	.0000	.0001	.0002	.0007
%RSD	.5885	126.5	13.87	9.093	10.29	.3339	3.338	12.92	25.32
#1	-.0006	.0000	.0006	-.0011	-.0008	.0022	.0033	-.0017	.0022
#2	-.0006	.0000	.0008	-.0009	-.0006	.0022	.0035	-.0020	.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	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0000	-0.0048	.0014	.0021	-0.0003	.0020	498.6	376.6
Stddev	.000	.000	.0004	.0021	.0003	.0017	.0003	5.2	.3
%RSD	244.5	29.64	8.116	146.6	13.37	557.8	17.91	1.049	.0673
#1	.0000	-.0001	-.0050	.0029	.0019	-.0015	.0017	502.3	376.8
#2	.0000	.0000	-.0045	-.0001	.0023	.0009	.0022	494.9	376.4
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	186.0	506.8	.1541	.0030	-0.0004	-0.0027	.0115	.0155	-0.0014
Stddev	.3	1.4	.0014	.0056	.0006	.0000	.0010	.0003	.0004
%RSD	.1816	.2755	.9319	189.4	141.6	.6217	8.832	1.962	25.03
#1	185.8	507.8	.1531	-.0010	.0000	-.0027	.0123	.0157	-.0012
#2	186.3	505.8	.1551	.0069	-.0008	-.0027	.0108	.0153	-.0017
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: 7/3/2014 12:55:34 Type: QC									
Method: Accutest1(v210) 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	-0.0060	.0008	-0.0006	-0.012	.0457	.0016	.0048		
Stddev	.0000	.0001	.0000	.0000	.0023	.0012	.0007		
%RSD	.6012	10.30	5.329	4.119	5.137	71.22	15.45		
#1	-.0060	.0008	-.0005	-.0011	.0441	.0024	.0043		
#2	-.0060	.0009	-.0006	-.0012	.0474	.0008	.0053		
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	177120.	46174.	2777.3	7164.0					
Stddev	351.	146.	10.1	22.5					
%RSD	.19819	.31631	.36399	.31406					
#1	176880.	46071.	2770.2	7148.1					
#2	177370.	46278.	2784.5	7179.9					

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Sample Name: ICSAB Acquired: 7/3/2014 13:01:54 Type: QC									
Method: Accutest1(v210) 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	.4800	.4804	1.005	.4737	.4675	.4941	.4855	.9492	.9992
Stddev	.0004	.0010	.003	.0002	.0003	.0005	.0006	.0006	.0002
%RSD	.0787	.2073	.2473	.0360	.0701	.0975	.1303	.0650	.0171
#1	.4798	.4811	1.003	.4736	.4673	.4937	.4859	.9488	.9990
#2	.4803	.4797	1.007	.4738	.4677	.4944	.4850	.9497	.9993
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	.4632	.9593	1.005	.9598	.9409	.9951	1.020	495.3	372.8
Stddev	.0001	.0023	.001	.0040	.0006	.0032	.003	3.4	.0
%RSD	.0141	.2421	.0575	.4216	.0595	.3256	.2769	.6769	.0112
#1	.4633	.9576	1.005	.9626	.9405	.9929	1.018	497.7	372.8
#2	.4632	.9609	1.006	.9569	.9413	.9974	1.022	492.9	372.8
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	185.4	507.5	.1691	.0031	-0.0033	.4879	.5356	.0161	-0.0009
Stddev	1.1	1.4	.0040	.0027	.0017	.0010	.0007	.0005	.0006
%RSD	.6043	.2802	2.387	86.19	53.61	.2082	.1283	3.312	67.08
#1	184.6	508.5	.1663	.0050	-.0045	.4871	.5361	.0164	-.0013
#2	186.2	506.5	.1720	.0012	-.0020	.4886	.5351	.0157	-.0005
Check ?	Chk Pass	Chk Pass	None	None	None	Chk Pass	Chk Pass	None	None
Value Range									

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Sample Name: ICSAB Acquired: 7/3/2014 13:01:54 Type: QC									
Method: Accutest1(v210) 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	-0.0061	.0010	.5014	.4865	.5361	.4912	.4847		
Stddev	.0000	.0001	.0004	.0002	.0012	.0014	.0007		
%RSD	.2233	13.21	.0794	.0421	.2241	.2947	.1448		
#1	-.0061	.0009	.5017	.4867	.5370	.4901	.4852		
#2	-.0061	.0011	.5011	.4864	.5353	.4922	.4843		
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	177950.	46158.	2775.1	7176.4					
Stddev	15.	40.	5.0	3.0					
%RSD	.00855	.08684	.18083	.04220					
#1	177940.	46130.	2778.7	7178.6					
#2	177960.	46186.	2771.6	7174.3					

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Sample Name: ccv Acquired: 7/3/2014 13:08:12 Type: QC									
Method: Accutest1(v210) 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	2.008	1.998	1.997	2.017	1.995	1.953	2.039	2.032	2.466
Stddev	.000	.018	.003	.003	.004	.002	.004	.002	.0000
%RSD	.0130	.0144	.01254	.01490	.01907	.01016	.01863	.00958	.0082
#1	2.007	2.011	1.996	2.015	1.998	1.955	2.042	2.030	2.466
#2	2.008	1.985	1.999	2.019	1.992	1.952	2.036	2.033	2.466
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	1.978	2.038	1.988	2.044	2.021	1.994	1.986	39.55	40.74
Stddev	.003	.000	.005	.003	.001	.002	.004	.02	.12
%RSD	.1656	.0116	.02623	.01259	.0712	.0928	.02109	.0460	.2837
#1	1.980	2.037	1.984	2.043	2.020	1.992	1.983	39.54	40.82
#2	1.976	2.038	1.991	2.046	2.022	1.995	1.989	39.56	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	40.73	39.82	39.98	40.03	1.982	1.998	1.952	4.978	2.017
Stddev	.04	.07	.04	.00	.006	.004	.001	.009	.003
%RSD	.1008	.1722	.0961	.0017	.2810	.2242	.0444	.1791	.1660
#1	40.76	39.87	39.95	40.03	1.978	1.995	1.953	4.972	2.015
#2	40.70	39.77	40.00	40.03	1.986	2.001	1.952	4.984	2.019
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: 7/3/2014 13:14:24 Type: QC									
Method: Accutest1(v210) 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	.0001	.0001	.0001	.0002	.0001	.0003	-.0005
Stddev	.0000	.0000	.0001	.0002	.0001	.0002	.0000	.0003	.0003
%RSD	45.96	68.82	84.96	149.2	74.88	63.03	10.02	121.4	60.63
#1	.0001	.0000	.0001	.0000	.0000	.0001	.0001	.0005	-.0007
#2	.0001	.0001	.0002	.0003	.0001	.0004	.0001	.0000	-.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	-.0001	.0006	.0006	-.0003	-.0001	.0002	.0004	.0032
Stddev	.0001	.0002	.0001	.0012	.0006	.0010	.0006	.0082	.0005
%RSD	64.15	243.9	24.08	213.1	177.4	766.5	277.3	2217.	16.41
#1	.0001	-.0002	.0005	.0014	.0001	-.0009	.0006	.0062	.0028
#2	.0003	.0001	.0007	-.0003	-.0008	.0006	-.0002	-.0054	.0036
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	.0016	.0056	.0701	-.0095	.0015	.0006	.0009	.0026	.0001
Stddev	.0007	.0016	.0088	.0037	.0001	.0003	.0003	.0002	.0005
%RSD	40.23	28.34	12.49	39.02	4.985	57.46	32.90	9.179	345.8
#1	.0012	.0067	.0639	-.0069	.0016	.0008	.0007	.0027	-.0002
#2	.0021	.0045	.0762	-.0122	.0015	.0003	.0011	.0024	.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: ccv Acquired: 7/3/2014 13:08:12 Type: QC									
Method: Accutest1(v210) 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	1.991	1.987	1.949	1.992	1.988	1.975	1.981		
Stddev	.013	.001	.011	.002	.002	.004	.001		
%RSD	.6655	.0566	.5605	.0831	.0997	.0201	.0505		
#1	2.001	1.987	1.941	1.993	1.987	1.973	1.980		
#2	1.982	1.986	1.957	1.990	1.989	1.978	1.982		
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	192190.	47352.	3006.0	7823.3					
Stddev	438.	106.	5.9	13.4					
%RSD	.22785	.22281	.19592	.17113					
#1	191880.	47278.	3010.1	7832.8					
#2	192500.	47427.	3001.8	7813.8					

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Sample Name: ccb Acquired: 7/3/2014 13:14:24 Type: QC									
Method: Accutest1(v210) 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	.0002	.0062	.0005	.0000	.0006	-.0016		
Stddev	.0001	.0002	.0006	.0001	.000	.0001	.0003		
%RSD	174.4	83.34	9.203	18.00	981.7	18.56	18.90		
#1	.0000	.0001	.0066	.0005	-.0003	.0006	-.0014		
#2	.0001	.0004	.0058	.0006	.0003	.0005	-.0019		
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	201320.	48369.	3101.0	8071.3					
Stddev	506.	934.	1.	2.0					
%RSD	.25111	1.9303	.00239	.02461					
#1	201680.	49029.	3100.9	8069.9					
#2	200960.	47708.	3101.0	8072.7					

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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	0.001199	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	0.003000	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	-0.001900	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	-0.000155	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	-0.000479	0.000000	No
			V	-0.000040	0.000000	No
			Zn	-0.000080	0.000000	No
			Ca	-0.000010	0.000000	No
			Al	-0.000011	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	-0.003700	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	-0.000002	0.000000	No
			Ca	0.000000	0.000000	No
			Mn	0.000090	0.000000	No
			Mo	0.000040	0.000000	No
			Cr	0.000550	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	-0.004110	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	-0.009700	0.000000	No
			Al	-0.000004	0.000000	No
			Fe	-0.000053	0.000000	No

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
			V	-0.024000	0.000000	No
			Mn	0.001400	0.000000	No
			Ca	-0.000008	0.000000	No
			Ti	-0.002100	0.000000	No
			Mg	-0.000002	0.000000	No
			Co	0.003472	0.000000	No
			Sr	0.004677	0.000000	No
			B	0.000913	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	0.000180	0.000000	No
Pb 220.353 (453)	☒	23	Na	0.000000	0.000000	No
			Al	-0.000112	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	-0.002150	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	0.008000	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	0.000006	0.000000	No
			Ca	-0.000006	0.000000	No
			Mn	0.000223	0.000000	No
			Mo	-0.000119	0.000000	No
			Fe	-0.000238	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	0.060000	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	0.014520	0.000000	No
			V	-0.001830	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	0.041150	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	0.027685	0.000000	No
			V	-0.000190	0.000000	No
			Ti	0.006476	0.000000	No
			Al	0.000049	0.000000	No
			Cd	0.000800	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	0.000700	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}	☒	7	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
			Mg	0.000004	0.000000	No
Bi 223.061 {451}	☒	4	Ti	-0.005300	0.000000	No
			Fe	0.000035	0.000000	No
			Ti	-0.018190	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}	7/3/2014 10:20:58	7/3/2014 10:20:58	Linear	1/Conc	0.000723	1.500327	0.000000	1.000000
Be 313.042 {108}	7/3/2014 10:20:58	7/3/2014 10:20:58	Linear	1/Conc	-0.000501	2.761090	0.000000	1.000000
Cd 228.802 {448}	7/3/2014 10:20:58	7/3/2014 10:20:58	Linear	1/Conc	0.000603	1.196723	0.000000	1.000000
Co 228.616 {448}	7/3/2014 10:20:58	7/3/2014 10:20:58	Linear	1/Conc	-0.000156	0.519931	0.000000	1.000000
Cr 267.716 {126}	7/3/2014 10:20:58	7/3/2014 10:20:58	Linear	1/Conc	0.000005	0.083821	0.000000	1.000000
Cu 324.754 {104}2	7/3/2014 10:20:58	7/3/2014 10:20:58	Linear	1/Conc	0.003680	0.232003	0.000000	1.000000
Mn 257.610 {131}	7/3/2014 10:20:58	7/3/2014 10:20:58	Linear	1/Conc	0.000031	0.481212	0.000000	1.000000
Ni 231.604 {446}	7/3/2014 10:20:58	7/3/2014 10:20:58	Linear	1/Conc	-0.000368	0.399080	0.000000	1.000000
Ag 328.068 {103}	7/3/2014 10:20:58	7/3/2014 10:20:58	Linear	1/Conc	-0.000100	0.129916	0.000000	1.000000
V 292.402 {115}	7/3/2014 10:20:58	7/3/2014 10:20:58	Linear	1/Conc	-0.000037	0.138782	0.000000	1.000000
Zn 206.200 {464}	7/3/2014 10:20:58	7/3/2014 10:20:58	Linear	1/Conc	0.000047	1.094007	0.000000	1.000000
As 189.042 {478}	7/3/2014 10:20:58	7/3/2014 10:20:58	Linear	1/Conc	-0.000643	0.186004	0.000000	1.000000
Tl 190.856 {477}	7/3/2014 10:20:58	7/3/2014 10:20:58	Linear	1/Conc	-0.000369	0.055939	0.000000	1.000000
Pb 220.353 {453}	7/3/2014 10:20:58	7/3/2014 10:20:58	Linear	1/Conc	-0.000530	0.171609	0.000000	1.000000
Se 196.090 {472}	7/3/2014 10:20:58	7/3/2014 10:20:58	Linear	1/Conc	0.000269	0.120068	0.000000	1.000000
Sb 206.833 {463}	7/3/2014 10:20:58	7/3/2014 10:20:58	Linear	1/Conc	0.000062	0.252757	0.000000	1.000000
Al 396.152 { 85}	7/3/2014 10:20:58	7/3/2014 10:20:58	Linear	1/Conc	0.000117	0.023442	0.000000	1.000000
Ca 317.933 {106}	7/3/2014 10:20:58	7/3/2014 10:20:58	Linear	1/Conc	0.005753	0.074441	0.000000	1.000000
Fe 259.940 {130}	7/3/2014 10:20:58	7/3/2014 10:20:58	Linear	1/Conc	0.000098	0.048275	0.000000	1.000000
Mg 279.079 {121}	7/3/2014 10:20:58	7/3/2014 10:20:58	Linear	1/Conc	-0.000080	0.007032	0.000000	1.000000
K 766.490 { 44}	7/3/2014 10:20:58	7/3/2014 10:20:58	Linear	1/Conc	-0.003524	0.012688	0.000000	1.000000
Na 589.592 { 57}	7/3/2014 10:20:58	7/3/2014 10:20:58	Linear	1/Conc	-0.002571	0.048469	0.000000	1.000000
B 208.959 {462}	7/3/2014 10:20:58	7/3/2014 10:20:58	Linear	1/Conc	0.000273	0.263831	0.000000	1.000000
Mo 202.030 {467}	7/3/2014 10:20:58	7/3/2014 10:20:58	Linear	1/Conc	0.000892	1.075730	0.000000	1.000000
Pd 340.458 { 99}	7/3/2014 10:20:58	7/3/2014 10:20:58	Linear	1/Conc	-0.000074	0.045538	0.000000	1.000000
Si 212.412 {459}	7/3/2014 10:20:58	7/3/2014 10:20:58	Linear	1/Conc	0.003616	0.312781	0.000000	1.000000
Sn 189.989 {478}	7/3/2014 10:20:58	7/3/2014 10:20:58	Linear	1/Conc	0.000169	0.214092	0.000000	1.000000
Sr 407.771 { 83}	7/3/2014 10:20:58	7/3/2014 10:20:58	Linear	1/Conc	-0.000372	2.444552	0.000000	1.000000
Ti 334.904 {101}	7/3/2014 10:20:58	7/3/2014 10:20:58	Linear	1/Conc	-0.000103	0.145602	0.000000	1.000000
Y 360.073 { 94}*	6/17/2014 18:19:07	12/23/2009 10:44:16	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
Y 371.030 { 91}*	6/17/2014 18:19:12	12/23/2009 10:44:16	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
Y 224.306 {451}*	7/2/2014 11:08:50	12/23/2009 10:44:16	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
In 230.606 {446}*	6/17/2014 18:19:20	12/23/2009 10:44:16	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
W 207.911 {462}	7/3/2014 10:20:58	7/3/2014 10:20:58	Linear	1/Conc	0.004278	0.500659	0.000000	1.000000
Zr 339.198 { 99}	7/3/2014 10:20:58	7/3/2014 10:20:58	Linear	1/Conc	-0.000181	0.301459	0.000000	1.000000
S 182.034 {485}	7/3/2014 10:20:58	7/3/2014 10:20:58	Linear	1/Conc	-0.000693	0.106637	0.000000	1.000000
Bi 223.061 {451}	7/3/2014 10:20:58	7/3/2014 10:20:58	Linear	1/Conc	-0.000996	0.352136	0.000000	1.000000
Li 670.784 { 50}	7/3/2014 10:20:58	7/3/2014 10:20:58	Linear	1/Conc	0.000162	0.364891	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	0.000145	0.000484	OK	1.000000	0.000000	1	0
Be 313.042 {108}	1.000000	0.000000	0.000037	0.000124	OK	1.000000	0.000000	1	0
Cd 228.802 {448}	1.000000	0.000000	0.000164	0.000547	OK	1.000000	0.000000	1	0
Co 228.616 {448}	1.000000	0.000000	0.000233	0.000776	OK	1.000000	0.000000	1	0
Cr 267.716 {126}	1.000000	0.000000	0.000297	0.000991	OK	1.000000	0.000000	1	0
Cu 324.754 {104}2	1.000000	0.000000	0.000268	0.000892	OK	1.000000	0.000000	1	0
Mn 257.610 {131}	1.000000	0.000000	0.000045	0.000151	OK	1.000000	0.000000	1	0
Ni 231.604 {446}	1.000000	0.000000	0.000275	0.000916	OK	1.000000	0.000000	1	0
Ag 328.068 {103}	1.000000	0.000000	0.000400	0.001335	OK	1.000000	0.000000	1	0
V 292.402 {115}	1.000000	0.000000	0.000240	0.000800	OK	1.000000	0.000000	1	0
Zn 206.200 {464}	1.000000	0.000000	0.000151	0.000502	OK	1.000000	0.000000	1	0
As 189.042 {478}	1.000000	0.000000	0.000791	0.002636	OK	1.000000	0.000000	1	0
Tl 190.856 {477}	1.000000	0.000000	0.001098	0.003660	OK	1.000000	0.000000	1	0
Pb 220.353 {453}	1.000000	0.000000	0.000922	0.003074	OK	1.000000	0.000000	1	0
Se 196.090 {472}	1.000000	0.000000	0.001548	0.005158	OK	1.000000	0.000000	1	0
Sb 206.833 {463}	1.000000	0.000000	0.000923	0.003077	OK	1.000000	0.000000	1	0
Al 396.152 { 85 }	1.000000	0.000000	0.007290	0.024299	OK	1.000000	0.000000	1	0
Ca 317.933 {106}	1.000000	0.000000	0.001537	0.005124	OK	1.000000	0.000000	1	0
Fe 259.940 {130}	1.000000	0.000000	0.001206	0.004019	OK	1.000000	0.000000	1	0
Mg 279.079 {121}	1.000000	0.000000	0.010748	0.035826	OK	1.000000	0.000000	1	0
K 766.490 { 44 }	1.000000	0.000000	0.025931	0.086438	OK	1.000000	0.000000	1	0
Na 589.592 { 57 }	1.000000	0.000000	0.006877	0.022923	OK	1.000000	0.000000	1	0
B 208.959 {462}	1.000000	0.000000	0.000558	0.001860	OK	1.000000	0.000000	1	0
Mo 202.030 {467}	1.000000	0.000000	0.000188	0.000625	OK	1.000000	0.000000	1	0
Pd 340.458 { 99 }	1.000000	0.000000	0.001049	0.003496	OK	1.000000	0.000000	1	0
Si 212.412 {459}	1.000000	0.000000	0.000732	0.002440	OK	1.000000	0.000000	1	0
Sn 189.989 {478}	1.000000	0.000000	0.000603	0.002011	OK	1.000000	0.000000	1	0
Sr 407.771 { 83 }	1.000000	0.000000	0.000062	0.000207	OK	1.000000	0.000000	1	0
Ti 334.904 {101}	1.000000	0.000000	0.000328	0.001092	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	0.000811	0.002702	OK	1.000000	0.000000	1	0
Zr 339.198 { 99 }	1.000000	0.000000	0.000147	0.000489	OK	1.000000	0.000000	1	0
S 182.034 {485}	1.000000	0.000000	0.001527	0.005090	OK	1.000000	0.000000	1	0
Bi 223.061 {451}	1.000000	0.000000	0.000916	0.003054	OK	1.000000	0.000000	1	0
Li 670.784 { 50 }	1.000000	0.000000	0.000928	0.003093	OK	1.000000	0.000000	1	0

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Sample Name: STDA Acquired: 7/3/2014 17:34:07 Type: Cal
Method: Accutest1(v213) 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	-0.0004	.0007	-0.0002	.0000	.0039	.0000	-0.0004	-0.0001
Stddev	.0001	.0001	.0000	.0000	.000	.0001	.0000	.0000	.0000
%RSD	12.16	22.66	5.548	23.39	111.5	1.515	9.562	10.85	12.70
#1	.0005	-.0004	.0006	-.0002	.0000	.0039	.0000	-.0003	-.0001
#2	.0006	-.0005	.0007	-.0002	.0000	.0038	.0000	-.0004	-.0001
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	.0000	.0003	-0.0007	-0.0005	-0.0004	.0010	.0001	.0000	.0061
Stddev	.000	.0002	.0000	.0000	.0000	.0001	.0002	.000	.0001
%RSD	42.44	61.57	2.050	4.105	11.16	5.563	254.7	240.8	1.047
#1	.0000	.0002	-.0007	-.0005	-.0004	.0010	.0002	.0000	.0060
#2	.0000	.0005	-.0007	-.0004	-.0004	.0010	-.0001	.0000	.0061
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	.0000	-0.0001	-0.0021	-0.0029	.0002	.0005	-0.0001	.0039	.0002
Stddev	.0000	.0001	.0003	.0000	.0000	.0001	.0000	.0002	.0000
%RSD	84.09	70.57	15.79	.2827	1.015	28.93	1.703	5.419	11.65
#1	.0000	.0000	-.0023	-.0029	.0002	.0006	-.0001	.0038	.0002
#2	.0001	-.0001	-.0019	-.0029	.0002	.0004	-.0001	.0041	.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	-0.0005	-0.0001	.0012	-0.0003	-0.0006	-0.0009	-0.0003		
Stddev	.0001	.0000	.0001	.0000	.0002	.0001	.0001		
%RSD	14.94	33.27	4.764	15.03	28.32	11.83	22.78		
#1	-.0004	-.0001	.0012	-.0002	-.0007	-.0008	-.0002		
#2	-.0005	-.0001	.0013	-.0003	-.0005	-.0009	-.0003		

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Sample Name: STDA Acquired: 7/3/2014 17:34:07 Type: Cal
Method: Accutest1(v213) 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	199680.	48768.	3085.7	8057.8
Stddev	169.	295.	4.1	9.9
%RSD	.08446	.60459	.13346	.12334
#1	199800.	48977.	3088.6	8064.9
#2	199560.	48560.	3082.8	8050.8

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Sample Name: STDB Acquired: 7/3/2014 17:40:17 Type: Cal
Method: Accutest1(v213) 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	5.979	10.75	5.026	2.054	.3268	.9184	1.899	1.579	.0617
Stddev	.032	.05	.001	.000	.0011	.0041	.000	.000	.0003
%RSD	.5312	.4536	.0126	.0175	.3308	.4427	.0143	.0004	.4813
#1	5.957	10.72	5.026	2.054	.3261	.9155	1.898	1.579	.0615
#2	6.002	10.79	5.026	2.054	.3276	.9212	1.899	1.579	.0619
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	.5339	4.569	.7669	.2091	.6794	.5075	1.012	1.877	5.841
Stddev	.0014	.002	.0006	.0000	.0003	.0007	.000	.000	.068
%RSD	.2711	.0431	.0778	.0224	.0378	.1326	.0267	.0048	1.164
#1	.5328	4.571	.7664	.2091	.6792	.5070	1.012	1.877	5.889
#2	.5349	4.568	.7673	.2091	.6796	.5080	1.011	1.877	5.793
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	3.792	.5472	1.075	3.835	1.105	4.283	.1885	3.202	.8471
Stddev	.010	.0028	.005	.054	.000	.002	.0009	.002	.0007
%RSD	.2573	.5105	.4877	1.405	.0128	.0488	.4999	.0651	.0827
#1	3.799	.5492	1.079	3.873	1.105	4.282	.1879	3.200	.8467
#2	3.785	.5452	1.071	3.797	1.105	4.285	.1892	3.203	.8476
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	10.28	.5792	2.017	1.144	.4271	1.392	1.445		
Stddev	.11	.0019	.006	.006	.0001	.002	.002		
%RSD	1.075	.3289	.3105	.5132	.0287	.1242	.1107		
#1	10.20	.5778	2.012	1.148	.4270	1.391	1.446		
#2	10.36	.5805	2.021	1.139	.4271	1.393	1.444		

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Sample Name: STDB Acquired: 7/3/2014 17:40:17 Type: Cal
Method: Accutest1(v213) 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	186970.	47688.	2896.5	7639.9
Stddev	375.	177.	2.3	5.6
%RSD	.20044	.37119	.08004	.07339
#1	187230.	47563.	2898.1	7643.9
#2	186700.	47814.	2894.8	7636.0

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Sample Name: ccvconf Acquired: 7/3/2014 17:46:53 Type: QC
Method: Accutest1(v213) 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	2.007	2.049	1.997	2.020	2.018	1.963	2.057	2.037	2.479
Stddev	.005	.024	.001	.001	.009	.005	.009	.001	.0008
%RSD	.2609	1.152	.0561	.0371	.4374	.2389	.4639	.0670	.3056
#1	2.003	2.033	1.998	2.021	2.024	1.966	2.064	2.038	2.484
#2	2.011	2.066	1.996	2.020	2.012	1.960	2.050	2.036	2.473

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	2.041	1.977	2.042	2.021	1.976	1.977	39.96	41.27
Stddev	.009	.000	.000	.003	.000	.003	.001	.08	.11
%RSD	.4322	.0090	.0109	.1258	.0075	.1542	.0346	.1921	.2761
#1	2.000	2.041	1.977	2.040	2.021	1.978	1.977	39.91	41.19
#2	1.988	2.042	1.977	2.044	2.020	1.974	1.976	40.02	41.35

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	40.95	40.05	39.92	40.68	1.973	2.003	1.964	4.963	2.020
Stddev	.12	.22	.11	.02	.004	.000	.003	.003	.002
%RSD	.2866	.5599	.2663	.0419	.1841	.0091	.1643	.0643	.1212
#1	40.87	39.89	39.85	40.67	1.970	2.003	1.966	4.965	2.022
#2	41.03	40.21	40.00	40.70	1.975	2.003	1.961	4.961	2.019

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: 7/3/2014 17:46:53 Type: QC
Method: Accutest1(v213) 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	2.067	1.995	1.983	2.024	1.976	1.966	1.995
Stddev	.004	.006	.002	.003	.000	.000	.002
%RSD	.1832	.2940	.0731	.1651	.0186	.0169	.1196
#1	2.064	2.000	1.984	2.026	1.976	1.966	1.993
#2	2.070	1.991	1.982	2.022	1.975	1.967	1.997

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	192600.	47660.	2985.4	7804.1
Stddev	985.	143.	2	4.1
%RSD	.51126	.30085	.00752	.05234
#1	191910.	47761.	2985.2	7801.2
#2	193300.	47559.	2985.6	7807.0

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Sample Name: ccbconf Acquired: 7/3/2014 17:53:05 Type: QC
Method: Accutest1(v213) 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	.0000	.0000	.0001	-.0001	.0001	.0001	.0000
Stddev	.0000	.0000	.0002	.0001	.0002	.0000	.0000	.0002	.0001
%RSD	15.33	9.544	709.5	284.2	309.4	16.90	14.35	282.5	493.7
#1	.0002	.0001	.0002	.0001	-.0001	-.0001	.0001	-.0001	.0001
#2	.0001	.0001	-.0001	.0000	.0002	-.0002	.0002	.0002	-.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	.0003	-.0011	.0002	.0007	.0000	-.0009	.0006	.0111	.0048
Stddev	.0002	.0001	.0005	.0002	.0002	.0008	.0007	.0006	.0000
%RSD	86.05	11.71	218.0	23.36	857.0	96.20	114.2	5.446	.0784
#1	.0004	-.0010	-.0001	.0006	.0002	-.0003	.0001	.0116	.0048
#2	.0001	-.0012	.0006	.0008	-.0001	-.0015	.0011	.0107	.0048

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	.0029	.0054	.0214	.0092	.0029	.0012	-.0004	.0002	-.0004
Stddev	.0011	.0014	.0127	.0032	.0004	.0001	.0003	.0002	.0002
%RSD	37.09	25.93	59.21	35.11	12.40	8.775	70.05	94.71	56.51
#1	.0036	.0063	.0125	.0114	.0032	.0013	-.0006	.0004	-.0006
#2	.0021	.0044	.0304	.0069	.0027	.0011	-.0002	.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

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Sample Name: ccbconf Acquired: 7/3/2014 17:53:05 Type: QC
Method: Accutest1(v213) 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	.0166	.0006	-.0006	-.0003	.0004
Stddev	.0000	.0004	.0019	.0000	.0003	.0012	.0003
%RSD	1.206	237.8	11.26	2.414	58.60	432.3	58.88
#1	.0002	-.0001	.0180	.0006	-.0008	-.0012	.0006
#2	.0002	.0004	.0153	.0007	-.0003	.0006	.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	201520.	48357.	3087.0	8049.3
Stddev	126.	302.	1.2	4.9
%RSD	.06266	.62483	.04048	.06056
#1	201610.	48570.	3087.9	8052.7
#2	201430.	48143.	3086.1	8045.8

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Sample Name: icv Acquired: 7/3/2014 17:59:19 Type: QC									
Method: Accutest1(v213) 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	2.065	2.005	2.027	2.021	1.957	2.048	2.044	2.468
Stddev	.002	.007	.004	.001	.001	.001	.000	.002	.0003
%RSD	.0976	.3387	.1863	.0327	.0297	.0698	.0159	.1080	.1206
#1	2.007	2.060	2.002	2.027	2.021	1.958	2.048	2.042	2.465
#2	2.004	2.070	2.007	2.028	2.022	1.956	2.048	2.045	2.470
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	2.047	1.985	2.050	2.029	1.995	1.989	39.75	41.34
Stddev	.001	.003	.004	.002	.002	.003	.001	.04	.07
%RSD	.0643	.1342	.2100	.0955	.0763	.1520	.0514	.0912	.1650
#1	1.995	2.045	1.982	2.052	2.030	1.993	1.989	39.77	41.39
#2	1.997	2.049	1.988	2.049	2.028	1.998	1.990	39.72	41.29
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	41.04	40.33	40.10	40.47	1.991	2.008	1.958	5.038	2.028
Stddev	.09	.04	.05	.04	.004	.000	.002	.003	.001
%RSD	.2277	.1059	.1240	.0915	.2083	.0014	.0764	.0585	.0322
#1	41.11	40.36	40.14	40.49	1.988	2.008	1.957	5.036	2.027
#2	40.98	40.30	40.07	40.44	1.994	2.008	1.959	5.040	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: icv Acquired: 7/3/2014 17:59:19 Type: QC									
Method: Accutest1(v213) 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	2.039	1.987	1.981	2.011	1.987	1.974	1.994		
Stddev	.022	.002	.006	.000	.004	.001	.002		
%RSD	1.078	.0743	.3147	.0080	.1906	.0555	.0866		
#1	2.024	1.988	1.977	2.011	1.984	1.975	1.995		
#2	2.055	1.986	1.986	2.011	1.990	1.973	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	192540.	47527.	2969.8	7763.7					
Stddev	444.	48.	3.0	5.0					
%RSD	.23038	.10133	.10015	.06457					
#1	192230.	47493.	2971.9	7767.3					
#2	192860.	47561.	2967.7	7760.2					

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Sample Name: icb Acquired: 7/3/2014 18:05:30 Type: QC									
Method: Accutest1(v213) 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	.0002	-.0001	.0002	.0002	-.0002
Stddev	.0000	.0000	.0000	.0000	.0000	.0001	.0000	.0001	.0002
%RSD	40.31	28.64	59.42	38.98	21.34	106.5	20.32	56.28	115.5
#1	.0001	.0001	.0001	.0001	.0002	-.0001	.0002	.0001	.0000
#2	.0001	.0002	.0000	.0001	.0002	.0000	.0003	.0002	-.0004
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	-.0008	.0009	.0003	.0000	-.0006	.0000	.0077	.0045
Stddev	.0001	.0001	.0008	.0009	.0003	.0004	.000	.0008	.0011
%RSD	17.81	12.87	94.95	309.5	777.7	66.60	15460.	10.29	23.59
#1	.0004	-.0008	.0014	.0009	-.0002	-.0009	-.0003	.0072	.0038
#2	.0005	-.0009	.0003	-.0003	.0003	-.0003	.0003	.0083	.0053
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	.0037	.0089	.0025	.0057	.0024	.0011	.0008	.0005	-.0004
Stddev	.0001	.0039	.0033	.0053	.0000	.0003	.0003	.0005	.0001
%RSD	3.516	43.35	132.6	92.86	1.741	27.95	31.77	111.2	25.42
#1	.0036	.0117	.0002	.0020	.0024	.0013	.0006	.0008	-.0004
#2	.0038	.0062	.0048	.0094	.0024	.0008	.0010	.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									

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Sample Name: icb Acquired: 7/3/2014 18:05:30 Type: QC									
Method: Accutest1(v213) 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	.0149	.0008	.0002	-.0003	.0014		
Stddev	.0000	.0003	.0007	.0001	.0005	.0014	.0002		
%RSD	8.959	84.20	4.917	6.669	224.2	413.9	14.58		
#1	.0002	.0005	.0155	.0008	-.0001	.0007	.0016		
#2	.0002	.0001	.0144	.0008	.0006	-.0013	.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	202750.	48371.	3068.1	8003.5					
Stddev	1879.	32.	18.8	54.6					
%RSD	.92681	.06570	.61316	.68275					
#1	204080.	48393.	3081.4	8042.1					
#2	201420.	48348.	3054.8	7964.9					

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Sample Name: ccv Acquired: 7/3/2014 18:11:43 Type: QC
Method: Accutest1(v213) 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	2.009	2.064	1.998	2.026	2.031	1.959	2.035	2.037	2.459
Stddev	.001	.004	.001	.006	.001	.001	.001	.004	.0003
%RSD	.0519	.1877	.0428	.2866	.0447	.0271	.0472	.1863	.1188
#1	2.008	2.062	1.997	2.022	2.032	1.958	2.034	2.034	2.457
#2	2.009	2.067	1.998	2.030	2.031	1.959	2.035	2.040	2.461

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	2.000	2.039	1.967	2.041	2.024	1.984	1.979	39.63	41.30
Stddev	.001	.002	.002	.001	.012	.003	.002	.16	.20
%RSD	.0279	.1135	.1039	.0366	.5670	.1344	.0816	.3926	.4886
#1	2.000	2.040	1.966	2.042	2.016	1.986	1.980	39.52	41.16
#2	2.001	2.037	1.968	2.041	2.032	1.982	1.978	39.74	41.45

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	41.22	40.49	40.45	40.21	1.979	1.996	1.953	4.996	2.022
Stddev	.12	.20	.03	.15	.003	.000	.001	.000	.001
%RSD	.2874	.4949	.0760	.3717	.1734	.0197	.0247	.0020	.0308
#1	41.14	40.34	40.42	40.11	1.977	1.995	1.953	4.996	2.023
#2	41.30	40.63	40.47	40.32	1.981	1.996	1.953	4.996	2.022

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: 7/3/2014 18:17:55 Type: QC
Method: Accutest1(v213) 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	-0.0001	-0.0001	.0002	-0.0001	.0002	.0002	-0.0002
Stddev	.0000	.0000	.0002	.0001	.0002	.0003	.0000	.0001	.0003
%RSD	8.639	1.268	303.0	126.7	98.58	447.3	5.975	63.62	190.7
#1	.0003	.0002	-.0002	-.0001	.0001	-.0002	.0002	.0001	.0001
#2	.0003	.0002	.0001	.0000	.0004	.0001	.0002	.0003	-.0004

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	-0.0006	.0004	-0.0001	-0.0007	.0005	.0001	.0091	.0066
Stddev	.0001	.0003	.0002	.0008	.0005	.0007	.0001	.0048	.0003
%RSD	45.04	42.45	54.70	759.6	71.53	152.8	87.70	52.83	4.779
#1	.0002	-.0008	.0005	-.0007	-.0004	.0000	.0002	.0125	.0068
#2	.0003	-.0004	.0002	.0005	-.0011	.0010	.0001	.0057	.0063

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	.0057	.0136	.0000	.0004	.0026	.0009	.0003	-0.0004	-0.0001
Stddev	.0005	.0001	.013	.0026	.0005	.0001	.0004	.0005	.0002
%RSD	8.762	.7292	34360.	637.9	18.41	15.10	134.7	128.2	171.7
#1	.0061	.0136	.0094	.0022	.0029	.0010	.0000	.0000	.0000
#2	.0054	.0135	-.0095	-.0014	.0023	.0008	.0006	-.0007	-.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: 7/3/2014 18:11:43 Type: QC
Method: Accutest1(v213) 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	1.972	1.965	2.005	1.973	1.956	2.013
Stddev	.002	.001	.009	.001	.002	.001	.002
%RSD	.0921	.0535	.4589	.0515	.1036	.0581	.1016
#1	2.045	1.971	1.959	2.004	1.974	1.956	2.011
#2	2.043	1.973	1.972	2.006	1.971	1.957	2.014

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	192450.	47412.	2982.6	7784.9
Stddev	77.	319.	1.3	9.5
%RSD	.03979	.67298	.04490	.12261
#1	192390.	47638.	2981.6	7791.7
#2	192500.	47187.	2983.5	7778.2

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Sample Name: ccb Acquired: 7/3/2014 18:17:55 Type: QC
Method: Accutest1(v213) 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	.0142	.0007	-0.0004	.0001	.0001
Stddev	.0000	.0001	.0021	.0002	.0004	.0007	.0003
%RSD	1.858	36.47	14.61	33.10	80.07	692.4	437.0
#1	.0003	.0003	.0157	.0005	-.0007	-.0004	.0003
#2	.0003	.0005	.0127	.0008	-.0002	.0006	-.0001

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	201910.	48012.	3085.2	8054.0
Stddev	200.	158.	3.6	1.1
%RSD	.09928	.32976	.11812	.01392
#1	201770.	47900.	3087.8	8053.2
#2	202050.	48124.	3082.6	8054.8

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Sample Name: cri Acquired: 7/3/2014 18:24:08 Type: QC
Method: Accutest1(v213) 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	.2041	.0022	.0032	.0526	.0110	.0094	.0161	.0108
Stddev	.0001	.0000	.0000	.0001	.0002	.0001	.0000	.0003
%RSD	.0423	1.955	1.437	.2327	1.608	1.159	.0827	2.617
#1	.2040	.0021	.0032	.0527	.0111	.0095	.0161	.0110
#2	.2042	.0022	.0032	.0525	.0108	.0093	.0161	.0106

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	.0048	.0539	.0212	.0091	.0098	.0036	W .0122	.0063
Stddev	.0003	.0002	.0007	.0002	.0006	.0007	.0001	.0008
%RSD	5.935	.4338	3.390	2.459	6.081	18.27	.5831	13.45
#1	.0046	.0541	.0217	.0093	.0102	.0031	.0122	.0057
#2	.0050	.0538	.0207	.0090	.0094	.0040	.0121	.0069

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Warm Chk Pass
Value Range .0100 20.00%

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2040	5.198	.1103	5.124	5.074	5.068	.1028	.0211
Stddev	.0050	.002	.0004	.007	.031	.003	.0008	.0000
%RSD	2.456	.0299	.3547	.1384	.6188	.0517	.7977	.0766
#1	.2076	5.199	.1106	5.119	5.052	5.069	.1023	.0211
#2	.2005	5.197	.1101	5.129	5.097	5.066	.1034	.0211

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: 7/3/2014 18:24:08 Type: QC
Method: Accutest1(v213) 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	.0473	.2035	.0096	.0108	.0106	W .0612	.0103	.0509
Stddev	.0003	.0021	.0001	.0000	.0004	.0003	.0001	.0052
%RSD	.5967	1.022	.9330	.2352	3.414	.5399	.8208	10.19
#1	.0475	.2020	.0097	.0108	.0103	.0610	.0103	.0546
#2	.0471	.2049	.0096	.0108	.0109	.0614	.0102	.0472

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Warm Chk Pass Chk Pass
Value Range .0500 20.00%

Elem	Bi2230	Li6707
Units	ppm	ppm
Avg	.0191	.0222
Stddev	.0003	.0005
%RSD	1.449	2.037
#1	.0189	.0225
#2	.0193	.0219

Check ? 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	199960.	48045.	3068.8	8007.2
Stddev	736.	11.	30.2	51.6
%RSD	.36807	.02248	.98364	.64388
#1	199440.	48053.	3090.2	8043.6
#2	200480.	48038.	3047.5	7970.7

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Sample Name: crid Acquired: 7/3/2014 18:30:17 Type: QC
Method: Accutest1(v213) 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	.0041	.0010	.0010	.0031	.0022	.0017	.0032	.0044
Stddev	.0000	.0000	.0002	.0000	.0000	.0001	.0001	.0000
%RSD	.1812	2.100	15.96	.5436	1.282	7.162	2.035	.6458
#1	.0041	.0010	.0011	.0031	.0022	.0018	.0033	.0044
#2	.0041	.0010	.0009	.0031	.0022	.0016	.0032	.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	F .0006	.0021	W .0129	.0034	.0019	.0025	.0051	.0031
Stddev	.0002	.0001	.0001	.0000	.0004	.0007	.0011	.0001
%RSD	26.44	4.373	.8833	.4127	22.40	29.44	20.92	3.650
#1	.0005	.0020	.0128	.0034	.0023	.0030	.0043	.0032
#2	.0007	.0021	.0130	.0034	.0016	.0020	.0058	.0031

Check ? Chk Fail Chk Pass Chk Warm Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value Range .0010 .0100 -30.00% 20.00%

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1015	1.063	.0012	1.065	1.992	1.019	.0111	.0002
Stddev	.0038	.017	.0000	.0105	.004	.006	.0005	.0000
%RSD	3.779	1.600	3.959	9.897	.2175	.5952	4.656	14.15
#1	.0988	1.075	.0011	.1139	1.995	1.015	.0107	.0002
#2	.1042	1.051	.0012	.0990	1.989	1.024	.0114	.0003

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: 7/3/2014 18:30:17 Type: QC
Method: Accutest1(v213) 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	-0.0005	.0004	-0.0004	.0000	.0002	W .0052	F .0002	F .0013
Stddev	.0003	.0003	.0001	.0000	.0001	.0007	.0001	.0002
%RSD	61.53	64.87	23.66	34.63	32.93	14.38	78.97	12.01
#1	-.0003	.0002	-.0003	.0000	.0001	.0057	.0001	.0014
#2	-.0007	.0006	-.0005	.0000	.0002	.0047	.0002	.0012

Check ? None None None None None Chk Warm Chk Fail Chk Fail
Value Range .0040 .0040 -30.00% -30.00% -30.00%

Elem	Bi2230	Li6707
Units	ppm	ppm
Avg	F .0003	F .0001
Stddev	.0000	.0002
%RSD	9.046	224.3
#1	.0003	.0003
#2	.0003	-.0001

Check ? Chk Fail Chk Fail
Value Range .0040 .0040 -30.00% -30.00%

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	201430.	47334.	3070.1	8031.3
Stddev	427.	1054.	10.9	17.8
%RSD	.21193	2.2257	.35549	.22225
#1	201120.	46589.	3062.4	8018.7
#2	201730.	48079.	3077.8	8043.9

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Sample Name: cria Acquired: 7/3/2014 18:36:29 Type: QC
Method: Accutest1(v213) 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	.0000	-.0001	-.0001	-.0002	.0001	.0001	-.0001
Stddev	.0000	.000	.000	.0001	.0000	.0001	.0000	.0000	.0002
%RSD	189.3	8.525	103.2	134.0	17.28	68.31	10.32	18.13	252.9

#1	.0000	.0000	.0000	.0000	-.0001	-.0003	.0000	.0001	-.0002
#2	.0000	.0000	-.0001	-.0002	-.0001	-.0001	.0001	.0002	.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	.0006	.0201	-.0001	.0208	.0220	.0199	.4972	-.0003
Stddev	.000	.0000	.0004	.0009	.0000	.0013	.0004	.0016	.0005
%RSD	4217.	8.019	1.881	1078.	.2142	5.778	2.088	.3200	146.7

#1	-.0001	.0005	.0204	-.0007	.0208	.0211	.0196	.4983	.0000
#2	.0001	.0006	.0198	.0006	.0208	.0229	.0202	.4961	-.0006

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	.5339	-.0019	-.0249	-.0037	.0010	.0001	-.0002	.0034	-.0005
Stddev	.0006	.0022	.0113	.0055	.0001	.0001	.0002	.0007	.0000
%RSD	.1041	115.6	45.48	149.1	7.765	59.68	124.3	19.33	1.800

#1	.5343	-.0004	-.0169	-.0076	.0011	.0001	-.0004	.0029	-.0005
#2	.5335	-.0035	-.0329	.0002	.0010	.0002	.0000	.0038	-.0005

Check ?	Chk Pass	None	None	None	None	None	None	None	None
Value									
Range									

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Sample Name: cria Acquired: 7/3/2014 18:36:29 Type: QC
Method: Accutest1(v213) 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	.0002	.0033	.0000	-.0001	-.0002	.0003
Stddev	.0000	.0001	.0003	.0000	.0003	.0006	.0003
%RSD	4.546	74.78	8.887	49.19	320.5	256.5	92.22

#1	.0000	.0003	.0036	.0001	-.0003	-.0006	.0005
#2	.0000	.0001	.0031	.0000	.0001	.0002	.0001

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	202340.	48109.	3090.7	8059.8
Stddev	248.	.	5.0	9.9
%RSD	.12243	.00099	.16096	.12287

#1	202160.	48109.	3094.3	8066.8
#2	202510.	48109.	3087.2	8052.7

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Sample Name: crid Acquired: 7/3/2014 18:42:41 Type: QC
Method: Accutest1(v213) 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	.0041	.0010	.0009	.0032	.0022	.0018	.0032	.0042
Stddev	.0000	.0000	.0001	.0001	.0002	.0001	.0000	.0001
%RSD	.9910	3.855	5.652	3.804	8.738	5.777	1.261	2.809

#1	.0041	.0010	.0010	.0031	.0020	.0017	.0033	.0042
#2	.0041	.0010	.0009	.0032	.0023	.0018	.0032	.0041

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	.0010	.0020	F .0131	.0031	.0021	.0028	.0053	.0035
Stddev	.0000	.0003	.0000	.0001	.0004	.0002	.0014	.0005
%RSD	1.936	14.60	.3479	3.955	19.04	7.657	27.34	15.01

#1	.0009	.0022	.0132	.0032	.0023	.0026	.0063	.0031
#2	.0010	.0018	.0131	.0030	.0018	.0029	.0042	.0039

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value			.0100					
Range			30.00%					

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1086	1.059	.0021	.1101	1.996	1.021	.0104	.0001
Stddev	.0010	.004	.0007	.0007	.006	.007	.0004	.0000
%RSD	.9085	.3821	30.81	.6440	.3026	.6604	3.508	31.57

#1	.1079	1.056	.0017	.1096	1.992	1.016	.0102	.0001
#2	.1093	1.062	.0026	.1106	2.000	1.025	.0107	.0001

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: 7/3/2014 18:42:41 Type: QC
Method: Accutest1(v213) 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	.0002	.0001	.0000	.0002	F .0026	F .0001	F .0006
Stddev	.0005	.0003	.0005	.0001	.0002	.0004	.0000	.0007
%RSD	118.9	118.5	323.3	370.9	101.8	14.49	22.35	113.7

#1	-.0001	.0000	.0005	.0000	.0003	.0024	.0001	.0011
#2	-.0008	.0005	-.0002	.0001	.0001	.0029	.0002	.0001

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	.0003	.0010
%RSD	61.43	338.9

#1	-.0003	.0004
#2	-.0008	-.0010

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	201670.	48068.	3083.5	8042.9
Stddev	233.	53.	2.3	3.2
%RSD	.11549	.10924	.07488	.04014

#1	201840.	48031.	3081.9	8040.6
#2	201510.	48106.	3085.1	8045.2

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Sample Name: icsa Acquired: 7/3/2014 18:48:53 Type: QC
Method: Accutest1(v213) 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	.0032	-0.0013	-0.0004	.0017	.0034	-0.0018	.0030
Stddev	.0001	.000	.0002	.0002	.0001	.0002	.0002	.0003	.0008
%RSD	29.44	145.8	6.197	14.37	26.74	10.39	7.088	18.56	26.27
#1	-.0003	.0000	.0031	-.0011	-.0003	.0016	.0033	-.0021	.0025
#2	-.0005	.0000	.0033	-.0014	-.0005	.0018	.0036	-.0016	.0036

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	.0000	-0.0028	.0019	.0016	.0043	.0005	503.0	379.6
Stddev	.0001	.0000	.0011	.0016	.0005	.0048	.0001	.7	2.4
%RSD	45.74	42.78	40.11	82.79	30.55	109.6	22.13	.1366	.6256
#1	.0001	.0000	-.0020	.0031	.0012	.0077	.0005	503.5	377.9
#2	.0003	.0000	-.0036	.0008	.0019	.0010	.0006	502.5	381.3

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	186.7	512.0	.0302	.0115	-0.0004	-0.0025	-0.0032	.0159	-0.0010
Stddev	1.6	.1	.0158	.0026	.0007	.0001	.0008	.0008	.0008
%RSD	.8599	.0263	52.39	22.46	190.1	4.132	24.59	5.282	74.60
#1	185.6	511.9	.0190	.0097	.0001	-.0026	-.0026	.0165	-.0005
#2	187.9	512.1	.0414	.0133	-.0008	-.0025	-.0037	.0153	-.0016

Check ? High Limit
Low Limit

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Sample Name: icsa Acquired: 7/3/2014 18:48:53 Type: QC
Method: Accutest1(v213) 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	-0.0061	.0009	.0068	.0079	.0434	.0019	.0080
Stddev	.0001	.0001	.0002	.0002	.0018	.0001	.0011
%RSD	1.516	5.617	3.578	2.271	4.256	7.747	13.60
#1	-.0060	.0009	.0067	.0078	.0421	.0020	.0088
#2	-.0062	.0009	.0070	.0081	.0447	.0018	.0072

Check ? High Limit
Low Limit

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	178470.	46519.	2777.6	7187.7
Stddev	294.	42.	13.7	23.7
%RSD	.16459	.09121	.49498	.33002
#1	178260.	46549.	2787.4	7204.5
#2	178680.	46489.	2767.9	7170.9

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Sample Name: ICSAB Acquired: 7/3/2014 18:55:12 Type: QC
Method: Accutest1(v213) 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	.4792	.4883	1.012	.4777	.4738	.4972	.4908	.9517	1.000
Stddev	.0004	.0006	.003	.0003	.0011	.0012	.0004	.0017	.001
%RSD	.0935	.1330	.2670	.0668	.2253	.2427	.0916	.1760	.1136
#1	.4788	.4878	1.014	.4774	.4730	.4980	.4905	.9529	1.001
#2	.4795	.4888	1.010	.4779	.4745	.4963	.4911	.9505	.9994

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	.4678	.9697	1.005	.9672	.9423	1.006	1.017	492.5	374.1
Stddev	.0016	.0004	.003	.0004	.0009	.005	.003	5.7	1.0
%RSD	.3525	.0422	.3047	.0432	.0987	.5053	.3169	1.155	.2622
#1	.4666	.9694	1.007	.9675	.9416	1.009	1.019	488.5	373.4
#2	.4690	.9699	1.002	.9669	.9429	1.002	1.015	496.6	374.8

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	185.5	511.3	.0232	.0147	-0.0016	.4889	.5163	.0162	-0.0014
Stddev	.6	1.4	.0087	.0014	.0007	.0007	.0004	.0002	.0005
%RSD	.3280	.2800	37.36	9.382	41.07	.1457	.0835	1.323	37.41
#1	185.9	510.3	.0171	.0157	-.0021	.4894	.5166	.0161	-.0017
#2	185.1	512.3	.0293	.0137	-.0012	.4884	.5160	.0164	-.0010

Check ? Value Range

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Sample Name: ICSAB Acquired: 7/3/2014 18:55:12 Type: QC
Method: Accutest1(v213) 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	-0.0060	.0010	.5068	.5042	.5339	.4882	.4953
Stddev	.0000	.0001	.0016	.0002	.0002	.0017	.0007
%RSD	.1012	7.039	.3187	.0398	.0310	.3426	.1370
#1	-.0060	.0009	.5079	.5043	.5338	.4894	.4949
#2	-.0060	.0010	.5056	.5040	.5340	.4870	.4958

Check ? Value Range

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	178810.	46823.	2760.4	7183.5
Stddev	373.	208.	6.7	8.5
%RSD	.20867	.44389	.24324	.11846
#1	179070.	47071.	2755.6	7177.5
#2	178550.	46776.	2765.1	7189.6

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Sample Name: feconf Acquired: 7/3/2014 19:01:28 Type: Unk
Method: Accutest1(v213) 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	.0021	-.0007	-.0005	.0026	.0061	.0001	.0028
Stddev	.0001	.0000	.0000	.0000	.0000	.0001	.0002	.0003	.0008
%RSD	52.96	14.42	1.905	2.341	4.548	5.041	3.143	314.1	26.62
#1	.0001	.0000	.0022	-.0007	-.0005	.0025	.0060	-.0001	.0023
#2	.0002	.0000	.0021	-.0008	-.0005	.0027	.0063	.0003	.0034
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0002	.0042	-.0018	-.0002	.0012	-.0029	.0056	.0606	.0481
Stddev	.0001	.0001	.0006	.0006	.0009	.0011	.0001	.0071	.0003
%RSD	66.90	1.796	32.00	345.2	71.14	39.49	1.351	11.72	.5353
#1	.0001	.0042	-.0014	-.0006	.0006	-.0021	.0056	.0556	.0480
#2	.0003	.0041	-.0023	.0002	.0019	-.0037	.0055	.0656	.0483
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.2153	.0235	.0007	.0005	-.0012	.0007	-.0017	-.0192	-.0026
Stddev	1.5	.0129	.0057	.0013	.0001	.0001	.0004	.0001	.0002
%RSD	.6787	54.81	837.5	251.9	10.34	16.12	21.71	.4459	8.675
#1	.2143	.0326	.0047	-.0004	-.0013	.0007	-.0015	-.0192	-.0028
#2	.2163	.0144	-.0033	.0014	-.0011	.0006	-.0020	-.0193	-.0025
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0000	.0000	.0106	.0107	.0080	.0046	.0005		
Stddev	.0000	.0000	.0005	.0000	.0007	.0001	.0004		
%RSD	200.5	111.0	4.952	.3014	8.385	2.467	69.80		
#1	.0000	.0000	.0110	.0107	.0084	.0045	.0008		
#2	.0000	.0000	.0102	.0107	.0075	.0047	.0003		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	199760.	48099.	3049.6	8237.2					
Stddev	20.	250.	1.6	.9					
%RSD	.01019	.51926	.05134	.01041					
#1	199770.	47923.	3048.5	8237.8					
#2	199740.	48276.	3050.7	8236.6					

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Sample Name: crconf Acquired: 7/3/2014 19:07:41 Type: Unk
Method: Accutest1(v213) 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	.0006	.0001	.0001	.0014	10.31	-.0001	.0001	-.0001	
Stddev	.0001	.0000	.0001	.0001	.03	.0000	.0000	.0000	
%RSD	11.57	27.20	269.2	6.293	.2782	2.809	32.29	7.080	
#1	.0006	.0001	.0000	.0013	10.33	-.0001	.0001	-.0001	
#2	.0005	.0001	.0002	.0015	10.29	-.0001	.0001	-.0001	
Elem	Ag3280	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	
Avg	-.0002	.0045	.0023	F -.0048	-.0011	.0000	-.0008	.0048	
Stddev	.0001	.0002	.0002	.0006	.0003	.000	.0003	.0022	
%RSD	34.29	4.522	8.422	13.42	29.95	1432.	37.72	45.09	
#1	-.0001	.0046	.0024	-.0053	-.0008	-.0003	-.0006	.0033	
#2	-.0002	.0043	.0022	-.0043	-.0013	.0002	-.0011	.0063	
Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	
Avg	.0219	-.0110	.0256	.0210	-.0098	.0066	.0004	.0009	
Stddev	.0021	.0002	.0013	.0041	.0034	.0061	.0001	.0000	
%RSD	9.728	1.509	5.264	19.56	34.37	91.63	20.05	4.566	
#1	.0234	-.0111	.0246	.0181	-.0122	.0023	.0004	.0009	
#2	.0204	-.0109	.0265	.0239	-.0074	.0109	.0003	.0009	
Elem	Pd3404	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	
Avg	-.0007	.0057	-.0009	.0001	.0011	.0009	-.0007	.0027	
Stddev	.0003	.0007	.0003	.0000	.0002	.0005	.0000	.0000	
%RSD	42.88	12.02	35.82	31.41	14.94	62.17	6.187	1.733	
#1	-.0005	.0052	-.0007	.0001	.0010	.0012	-.0006	.0027	
#2	-.0010	.0062	-.0011	.0001	.0012	.0005	-.0007	.0026	
Elem	Bi2230	Li6707							
Avg	.0032	-.0002							
Stddev	.0000	.0004							
%RSD	1.299	183.2							
#1	.0031	-.0004							
#2	.0032	.0001							

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Sample Name: crconf Acquired: 7/3/2014 19:07:41 Type: Unk
Method: Accutest1(v213) 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	202090.	48409.	3047.7	8090.7
Stddev	646.	287.	21.2	61.5
%RSD	.31970	.59236	.69410	.76010
#1	201630.	48206.	3062.7	8134.2
#2	202540.	48611.	3032.7	8047.2

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Sample Name: ccv Acquired: 7/3/2014 19:13:51 Type: QC
Method: Accutest1(v213) 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	1.996	2.038	2.004	2.025	2.023	1.962	2.064	2.038	2.469
Stddev	.001	.002	.000	.002	.002	.005	.003	.000	.0001
%RSD	.0397	.1163	.0011	.0776	.0726	.2550	.1214	.0188	.0362
#1	1.995	2.036	2.004	2.026	2.022	1.959	2.062	2.038	.2470
#2	1.996	2.039	2.004	2.023	2.024	1.966	2.066	2.038	.2469
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	1.988	2.052	1.991	2.045	2.024	2.002	1.988	39.82	41.15
Stddev	.001	.002	.000	.004	.003	.001	.001	.07	.06
%RSD	.0647	.0864	.0763	.1917	.1559	.0642	.0375	.1872	.1356
#1	1.997	2.053	1.990	2.042	2.026	2.003	1.989	39.88	41.19
#2	1.999	2.050	1.992	2.047	2.022	2.001	1.988	39.77	41.11
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	40.82	40.00	39.72	40.50	1.986	2.004	1.963	5.033	2.027
Stddev	.04	.05	.00	.06	.005	.002	.004	.005	.003
%RSD	.1001	.1258	.0083	.1480	.2371	.0811	.2037	.1087	.1351
#1	40.85	40.03	39.72	40.55	1.983	2.003	1.960	5.029	2.029
#2	40.79	39.96	39.71	40.46	1.989	2.005	1.966	5.037	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: ccv Acquired: 7/3/2014 19:13:51 Type: QC
Method: Accutest1(v213) 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	2.009	2.000	1.958	2.027	1.991	1.972	1.984
Stddev	.011	.004	.008	.006	.004	.003	.001
%RSD	.5310	.1857	.3988	.2762	.1887	.1317	.0455
#1	2.016	1.997	1.952	2.023	1.989	1.970	1.984
#2	2.001	2.003	1.963	2.031	1.994	1.974	1.983

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	193260.	47983.	2985.3	7816.3
Stddev	19.	149.	1.5	2.8
%RSD	.00957	.31090	.04907	.03586
#1	193280.	47887.	2986.3	7814.3
#2	193250.	48098.	2984.2	7818.3

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Sample Name: ccb Acquired: 7/3/2014 19:20:03 Type: QC
Method: Accutest1(v213) 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	.0003	.0001	.0000	.0001	.0004	.0003	.0003	.0000
Stddev	.0001	.0000	.0001	.000	.0001	.0000	.0000	.0000	.000
%RSD	32.79	7.920	55.26	1021.	43.69	.4294	4.240	7.237	374.6
#1	.0003	.0002	.0001	.0001	.0002	.0004	.0003	.0003	-.0001
#2	.0004	.0003	.0002	-.0001	.0001	.0004	.0003	.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	.0004	-.0003	.0007	.0001	-.0002	.0000	.0003	.0078	.0081
Stddev	.0000	.0000	.0002	.0009	.0009	.0009	.0002	.0031	.0002
%RSD	1.772	1.835	36.68	856.1	384.5	16930.	70.89	40.47	2.171
#1	.0004	-.0003	.0005	-.0005	-.0009	-.0007	.0002	.0055	.0080
#2	.0004	-.0003	.0009	.0008	.0004	.0007	.0005	.0100	.0082

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	.0060	.0128	-.0115	.0068	.0022	.0008	.0004	.0003	.0002
Stddev	.0005	.0084	.0072	.0021	.0005	.0001	.0004	.0001	.0004
%RSD	8.418	65.37	62.85	30.65	22.35	11.57	100.4	15.87	174.9
#1	.0057	.0188	-.0166	.0083	.0019	.0009	.0006	.0004	-.0001
#2	.0064	.0069	-.0064	.0054	.0026	.0007	.0001	.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

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Sample Name: ccb Acquired: 7/3/2014 19:20:03 Type: QC
Method: Accutest1(v213) 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	.0111	.0006	.0010	-.0002	.0005
Stddev	.0000	.0002	.0013	.0000	.0006	.0000	.0001
%RSD	10.09	63.65	11.45	.6294	55.16	5.900	16.58
#1	.0003	.0002	.0120	.0006	.0006	-.0002	.0005
#2	.0003	.0005	.0102	.0006	.0014	-.0002	.0004

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	202860.	48606.	3098.8	8086.9
Stddev	309.	45.	3.8	18.1
%RSD	.15250	.09330	.12340	.22344
#1	202640.	48638.	3096.1	8074.1
#2	203080.	48574.	3101.5	8099.6

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Sample Name: mp80451-mb1 2 Acquired: 7/3/2014 19:26:15 Type: Unk
Method: Accutest1(v213) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: 2ndconf

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	.0000	.0001	-.0001	.0002	.0003	.0001	.0000	.0001
Stddev	.0000	.0000	.0000	.0001	.0000	.0004	.0000	.0001	.0001
%RSD	7.084	448.1	55.16	67.90	2.431	120.7	6.471	493.9	60.91
#1	.0004	.0000	.0001	-.0001	.0002	.0000	.0001	.0000	.0001
#2	.0003	.0000	.0000	-.0002	.0002	.0006	.0001	.0001	.0002

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0015	.0003	-.0010	-.0005	.0010	.0005	.0005	.0207
Stddev	.0001	.0000	.0004	.0003	.0004	.0010	.0000	.0061	.0003
%RSD	3663.	2.584	155.3	31.35	70.64	102.3	1.364	1257.	1.582
#1	.0001	.0014	.0000	-.0013	-.0008	.0003	.0005	.0048	.0205
#2	-.0001	.0015	.0006	-.0008	-.0003	.0017	.0005	-.0038	.0209

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0097	.0056	.0045	.0040	.0013	.0004	-.0002	.0138	.0001
Stddev	.0004	.0022	.0008	.0010	.0003	.0002	.0003	.0000	.0004
%RSD	4.582	39.38	18.49	23.90	24.21	45.79	150.4	.3380	316.9
#1	.0094	.0040	.0051	.0047	.0011	.0006	-.0004	.0138	.0004
#2	.0100	.0072	.0039	.0033	.0015	.0003	.0000	.0137	-.0002

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0003	.0076	.0004	.0039	-.0012	.0006
Stddev	.0000	.0002	.0009	.0001	.0010	.0002	.0002
%RSD	22.79	67.55	12.04	21.20	26.69	17.86	28.44
#1	.0001	.0001	.0083	.0004	.0046	-.0010	.0005
#2	.0001	.0004	.0070	.0003	.0031	-.0013	.0007

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	203340.	48612.	3076.5	8047.8
Stddev	1244.	57.	3.6	7.2
%RSD	.61191	.11681	.11677	.08993
#1	204220.	48652.	3079.0	8052.7
#2	202460.	48571.	3073.9	8042.4

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Sample Name: mp80451-lc1 Acquired: 7/3/2014 19:32:25 Type: Unk
Method: Accutest1(v213) 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	.4947	.5036	.4844	.4849	.4959	.4598	.5080	.5041	.1878
Stddev	.0006	.0009	.0018	.0019	.0010	.0022	.0012	.0018	.0008
%RSD	.1116	.1879	.3717	.3947	.1975	.4811	.2437	.3568	.4024
#1	.4951	.5043	.4856	.4862	.4966	.4613	.5089	.5054	.1883
#2	.4943	.5029	.4831	.4835	.4952	.4582	.5071	.5028	.1873
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.4814	.5358	.4813	.5049	.4965	.4979	.4748	.4854	.5620
Stddev	.0009	.0014	.0023	.0011	.0014	.0007	.0024	.006	.015
%RSD	.1936	.2620	.4781	.2270	.2831	.1412	.5119	.1159	.2745
#1	.4821	.5368	.4830	.5057	.4975	.4983	.4765	.4858	.5631
#2	.4807	.5348	.4797	.5041	.4955	.4974	.4731	.4850	.5609
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.5586	.5307	.9752	.10.04	.0083	.4814	-.0015	.0610	.0009
Stddev	.015	.025	.009	.01	.0001	.0023	.0004	.0008	.0002
%RSD	.2689	.4637	.0869	.1187	1.014	.4876	29.08	1.262	23.21
#1	5.596	5.325	9.746	10.05	.0082	.4831	-.0018	.0604	.0011
#2	5.575	5.290	9.758	10.03	.0083	.4798	-.0012	.0615	.0008
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	-.0001	.4915	.0187	.0012	.0061	.0055	-.0001		
Stddev	.0000	.0014	.0006	.0000	.0007	.0002	.0002		
%RSD	26.51	.2852	2.973	1.215	11.11	3.948	351.6		
#1	-.0002	.4925	.0191	.0012	.0056	.0057	.0001		
#2	-.0001	.4905	.0183	.0012	.0066	.0053	-.0002		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	200090.	48235.	3031.7	7950.7					
Stddev	226.	250.	15.4	34.6					
%RSD	.11316	.51740	.50686	.43546					
#1	199930.	48059.	3020.9	7926.2					
#2	200250.	48412.	3042.6	7975.2					

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Sample Name: mp80451-s1 Acquired: 7/3/2014 19:38:25 Type: Unk
Method: Accutest1(v213) 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	2.281	.0519	.0553	.4914	.2007	.2375	.5129	.5064	.0504
Stddev	.004	.0000	.0001	.0005	.0008	.0006	.0012	.0003	.0005
%RSD	.1908	.0781	.1679	.1021	.3749	.2419	.2400	.0676	1.064
#1	2.284	.0518	.0552	.4910	.2012	.2371	.5138	.5067	.0500
#2	2.278	.0519	.0554	.4917	.2002	.2379	.5120	.5062	.0507
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.4908	.5349	.2082	2.095	.5093	2.155	.4988	2.217	147.3
Stddev	.0018	.0002	.001	.002	.0008	.000	.0007	.001	2.0
%RSD	.3680	.0429	.0489	.1167	.1569	.0179	.1333	.0318	1.348
#1	.4921	.5348	.2082	2.097	.5087	2.155	.4993	2.218	145.9
#2	.4895	.5351	.2081	2.093	.5098	2.156	.5002	2.217	148.7
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	1.147	.61.08	27.64	112.3	.0637	.0014	-.0006	10.22	-.0020
Stddev	.003	.25	.05	.8	.0007	.0001	.0003	.02	.0005
%RSD	.2316	.4157	.1844	.6963	1.094	4.544	54.84	.1783	23.43
#1	1.145	60.90	27.61	111.8	.0642	.0014	-.0008	10.21	-.0017
#2	1.148	61.26	27.68	112.9	.0632	.0013	-.0003	10.23	-.0024
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.5166	.0039	.0092	-.0032	27.14	-.0033	.0124		
Stddev	.0007	.0001	.0003	.0001	.01	.0001	.0000		
%RSD	.1285	3.411	3.767	3.165	.0224	1.940	.2106		
#1	.5171	.0039	.0095	-.0032	27.14	-.0034	.0124		
#2	.5162	.0040	.0090	-.0033	27.15	-.0033	.0124		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	189520.	47478.	2897.9	7546.2					
Stddev	492.	257.	1.4	1.2					
%RSD	.25984	.54215	.04873	.01632					
#1	189170.	47660.	2898.9	7545.3					
#2	189870.	47296.	2896.9	7547.0					

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Sample Name: mp80451-s2 Acquired: 7/3/2014 19:44:37 Type: Unk
Method: Accutest1(v213) 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	2.291	.0522	.0554	.4986	.2041	.2386	.5173	.5141	.0505
Stddev	.012	.0005	.0001	.0003	.0036	.0025	.0060	.0001	.0006
%RSD	.5295	.8835	.1401	.0696	1.745	1.063	1.151	.0177	1.274
#1	2.282	.0519	.0554	.4988	.2015	.2368	.5131	.5140	.0500
#2	2.299	.0525	.0555	.4983	.2066	.2404	.5215	.5142	.0509
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.4946	.5407	2.090	2.118	.5174	2.175	.5043	2.229	147.5
Stddev	.0058	.0003	.000	.002	.0001	.004	.0004	.019	.1
%RSD	1.164	.0485	.0132	.1048	.0180	.1639	.0864	.8377	.0481
#1	.4905	.5409	2.090	2.119	.5173	2.172	.5046	2.215	147.4
#2	.4987	.5405	2.090	2.116	.5175	2.177	.5040	2.242	147.5
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	1.158	.61.27	27.74	112.5	.0643	.0011	-.0006	10.28	-.0023
Stddev	.005	.37	.16	2.1	.0000	.0003	.0003	.01	.0001
%RSD	.4049	.5994	.5905	1.864	.0771	21.98	51.09	.0635	3.899
#1	1.155	61.01	27.62	111.0	.0643	.0013	-.0004	10.29	-.0022
#2	1.162	61.53	27.85	114.0	.0642	.0010	-.0008	10.28	-.0024
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.5188	.0034	.0084	-.0037	27.33	-.0036	.0122		
Stddev	.0032	.0001	.0004	.0001	.02	.0006	.0007		
%RSD	.6154	2.163	4.410	2.231	.0905	18.02	5.744		
#1	.5165	.0034	.0081	-.0036	27.35	-.0040	.0127		
#2	.5210	.0033	.0087	-.0037	27.31	-.0031	.0117		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	189980.	47482.	2899.0	7531.2					
Stddev	1810.	216.	1.1	1.7					
%RSD	.95257	.45545	.03725	.02283					
#1	191260.	47635.	2898.2	7530.0					
#2	188700.	47330.	2899.7	7532.4					

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Sample Name: jb70718-4 Acquired: 7/3/2014 19:50:48 Type: Unk
Method: Accutest1(v213) 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	2.284	.0000	.0004	-.0007	.0018	.0012	.0071	.0005	.0009
Stddev	.0003	.000	.0001	.0001	.0001	.0001	.0001	.0002	.0002
%RSD	.1186	.468.4	21.25	22.67	7.238	4.478	.8431	29.90	21.86
#1	.2845	.0000	.0005	-.0008	.0017	.0013	.0071	.0004	.0011
#2	.2840	.0000	.0004	-.0006	.0019	.0012	.0072	.0007	.0008
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0024	.0041	.0027	.0009	.0007	.0065	-.0005	.2286	122.1
Stddev	.0002	.0000	.0001	.0004	.0005	.0003	.0001	.0010	.4
%RSD	8.485	.8741	5.289	49.55	63.82	5.084	22.14	.4320	.3650
#1	.0026	.0040	.0026	.0006	.0011	.0068	-.0006	.2279	121.7
#2	.0023	.0041	.0028	.0012	.0004	.0063	-.0004	.2293	122.4
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.1033	.35.47	1.674	84.44	.0625	.0014	.0006	9.982	-.0025
Stddev	.0014	.07	.017	1.43	.0001	.0001	.0002	.010	.0000
%RSD	1.403	.1951	.9934	1.689	.1207	10.64	33.35	.1021	1.094
#1	.1043	35.42	1.662	83.43	.0626	.0015	.0008	9.989	-.0025
#2	.1023	35.52	1.685	85.44	.0625	.0013	.0005	9.975	-.0025
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.5204	.0037	.0037	-.0023	26.58	-.0006	.0113		
Stddev	.0011	.0003	.0002	.0001	.05	.0009	.0003		
%RSD	.2192	7.100	5.595	3.347	.1919	148.1	2.564		
#1	.5212	.0039	.0039	-.0022	26.61	.0000	.0115		
#2	.5196	.0035	.0036	-.0023	26.54	-.0013	.0111		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	190560.	47203.	2954.6	7673.2					
Stddev	1091.	88.	5.0	12.1					
%RSD	.57239	.18666	.16937	.15753					
#1	191340.	47265.	2951.1	7664.6					
#2	189790.	47140.	2958.2	7681.7					

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Sample Name: mp80451-sd1 Acquired: 7/3/2014 19:57:07 Type: Unk
Method: Accutest1(v213) 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	.2812	-.0001	-.0003	-.0018	.0014	.0001	.0074	.0011	.0004
Stddev	.0017	.0000	.0003	.0001	.0004	.0010	.0000	.0005	.0018
%RSD	.6138	16.38	83.28	3.163	30.01	823.4	.5836	45.28	499.3
#1	.2800	-.0001	-.0001	-.0019	.0011	-.0006	.0074	.0014	.0017
#2	.2824	-.0001	-.0005	-.0018	.0017	-.0008	.0074	.0007	-.0009
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0013	.0110	.0036	.0010	.0030	.0049	.0015	.2453	124.0
Stddev	.0002	.0005	.0006	.0005	.0026	.0013	.0015	.0116	.1
%RSD	13.36	4.717	16.11	44.23	85.41	25.98	101.3	4.732	.0984
#1	.0015	.0114	.0032	.0007	.0012	.0058	.0025	.2535	124.0
#2	.0012	.0106	.0040	.0014	.0049	.0040	.0004	.2371	123.9
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.1090	35.73	1.492	84.74	.0641	.0013	-.0003	9.675	-.0058
Stddev	.0060	.14	.082	.07	.0001	.0005	.0009	.014	.0002
%RSD	5.534	.3821	5.514	.0814	.1461	38.22	341.0	.1407	4.221
#1	.1047	35.83	1.550	84.69	.0642	.0016	-.0009	9.665	-.0060
#2	.1132	35.64	1.434	84.79	.0640	.0009	.0004	9.685	-.0056
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.5112	.0044	.0053	-.0021	25.85	.0030	.0124		
Stddev	.0005	.0011	.0017	.0003	.08	.0002	.0011		
%RSD	.0920	25.28	32.08	16.14	.3176	5.093	8.733		
#1	.5115	.0052	.0041	-.0019	25.79	.0031	.0117		
#2	.5108	.0036	.0064	-.0023	25.91	.0029	.0132		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	199670.	48424.	3106.2	8093.6					
Stddev	350.	291.	3.4	6.3					
%RSD	.17512	.60046	.10923	.07835					
#1	199910.	48218.	3108.6	8098.1					
#2	199420.	48630.	3103.8	8089.2					

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Sample Name: jb70718-2 Acquired: 7/3/2014 20:03:16 Type: Unk
Method: Accutest1(v213) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: due

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.2993	.0000	.0002	-.0003	.0016	.0031	.0152	.0010	.0008
Stddev	.0000	.0000	.0000	.0000	.0002	.0002	.0004	.0000	.0002
%RSD	.0033	207.6	5.986	.6791	13.54	4.938	2.753	4.239	26.75
#1	.2993	.0000	.0002	-.0003	.0017	.0030	.0149	.0009	.0009
#2	.2993	.0001	.0002	-.0003	.0014	.0032	.0155	.0010	.0006
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0023	.0109	.0020	.0016	.0014	.0013	-.0002	.3609	97.73
Stddev	.0000	.0003	.0003	.0001	.0004	.0004	.0007	.0047	.17
%RSD	1.866	2.467	15.98	4.071	27.39	30.69	341.1	1.309	.1724
#1	.0024	.0107	.0018	.0015	.0017	.0015	-.0007	.3575	97.85
#2	.0023	.0111	.0023	.0016	.0011	.0010	.0003	.3642	97.61
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.2935	30.75	1.436	80.80	.0407	.0086	-.0001	9.004	-.0019
Stddev	.0009	.03	.007	.82	.0001	.0000	.0009	.029	.0002
%RSD	.3141	.0820	.4992	1.012	.3404	.3864	959.0	.3271	12.83
#1	.2942	30.77	1.431	80.22	.0408	.0087	.0006	9.025	-.0017
#2	.2929	30.73	1.441	81.38	.0406	.0086	-.0007	8.983	-.0021
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.6123	.0048	.0027	-.0014	7.629	-.0006	.0080		
Stddev	.0010	.0002	.0001	.0001	.023	.0002	.0005		
%RSD	.1599	4.344	2.318	7.919	.2959	41.32	6.065		
#1	.6116	.0046	.0026	-.0014	7.645	-.0007	.0083		
#2	.6130	.0049	.0027	-.0013	7.614	-.0004	.0076		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	194440.	47813.	3007.7	7788.5					
Stddev	3708.	67.	7.4	24.1					
%RSD	1.9071	.14117	.24676	.31001					
#1	197060.	47861.	3002.4	7771.4					
#2	191810.	47766.	3012.9	7805.6					

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Sample Name: jb70718-3 Acquired: 7/3/2014 20:09:34 Type: Unk
Method: Accutest1(v213) 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	.7299	.0000	.0003	-.0005	.0032	.0010	.0106	.0010	.0016
Stddev	.0047	.000	.0002	.0001	.0002	.0002	.0000	.0002	.0001
%RSD	.6432	24.85	54.40	23.09	4.701	16.71	.4623	16.09	8.323
#1	.7332	.0000	.0002	-.0004	.0031	.0011	.0107	.0011	.0015
#2	.7266	.0000	.0004	-.0005	.0034	.0009	.0106	.0009	.0016
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0036	.0034	.0027	.0009	.0004	.0035	.0007	.2641	120.4
Stddev	.0001	.0001	.0007	.0005	.0001	.0006	.0004	.0012	.5
%RSD	1.454	2.875	26.77	53.02	34.38	17.72	56.44	.4667	.4164
#1	.0035	.0034	.0033	.0005	.0003	.0040	.0009	.2650	120.7
#2	.0036	.0035	.0022	.0012	.0005	.0031	.0004	.2632	120.0
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.1439	54.95	3.741	45.69	.0376	.0008	-.0001	10.02	-.0021
Stddev	.0015	.11	.019	.32	.0001	.0001	.0009	.00	.0001
%RSD	1.022	.2002	.4975	.6941	.2017	10.73	599.6	.0137	4.991
#1	.1449	55.03	3.754	45.92	.0376	.0007	-.0007	10.02	-.0021
#2	.1428	54.87	3.728	45.47	.0375	.0008	.0005	10.02	-.0020
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	1.161	.0036	.0029	-.0020	12.59	-.0018	.0107		
Stddev	.005	.0002	.0005	.0000	.02	.0012	.0000		
%RSD	.4620	4.320	17.82	2.127	.1444	64.48	.2712		
#1	1.165	.0035	.0033	-.0020	12.60	-.0027	.0106		
#2	1.158	.0037	.0026	-.0021	12.58	-.0010	.0107		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	192890.	47441.	2983.4	7736.0					
Stddev	628.	180.	1.5	2.3					
%RSD	.32549	.38011	.04995	.02987					
#1	193340.	47313.	2982.4	7734.4					
#2	192450.	47568.	2984.5	7737.7					

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Sample Name: jb70718-5 Acquired: 7/3/2014 20:15:45 Type: Unk
Method: Accutest1(v213) 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	.3688	.0000	.0005	-.0005	.0063	.0030	.0085	.0020	.0015
Stddev	.0022	.000	.0000	.0000	.0002	.0001	.0000	.0002	.0000
%RSD	.5967	98.41	8.877	.0776	2.784	2.865	.3398	9.441	1.880
#1	.3652	.0000	.0005	-.0005	.0065	.0031	.0065	.0022	.0015
#2	.3683	.0000	.0005	-.0005	.0062	.0030	.0065	.0019	.0015
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0027	.0087	.0020	.0016	.0017	.0017	-.0005	.5597	149.1
Stddev	.0000	.0001	.0001	.0007	.0009	.0004	.0006	.0104	1.4
%RSD	1.826	.6529	4.422	42.58	53.60	24.68	114.8	1.857	.9315
#1	.0026	.0088	.0019	.0021	.0024	.0020	-.0001	.5523	148.1
#2	.0027	.0087	.0020	.0011	.0014	.0014	-.0010	.5670	150.1
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.6231	32.59	1.510	82.60	.0402	.0429	.0002	9.267	-.0017
Stddev	.0071	.25	.007	.07	.0002	.0002	.0003	.004	.0003
%RSD	1.140	.7763	.4709	.0817	.5669	.4004	135.6	.0476	17.59
#1	.6181	32.41	1.505	82.65	.0400	.0430	.0000	9.254	-.0019
#2	.6281	32.77	1.515	82.55	.0403	.0427	.0005	9.260	-.0015
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.3343	.0078	.0018	-.0016	10.02	-.0016	.0098		
Stddev	.0022	.0003	.0006	.0000	.00	.0007	.0009		
%RSD	.6558	3.583	35.73	.8043	.0125	41.99	9.179		
#1	.3327	.0080	.0013	-.0016	10.02	-.0012	.0092		
#2	.3358	.0076	.0023	-.0016	10.02	-.0021	.0105		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	191970.	47375.	2971.2	7680.3					
Stddev	190.	307.	2.9	6.5					
%RSD	.09881	.64892	.09808	.08448					
#1	191830.	47592.	2973.2	7684.9					
#2	192100.	47157.	2969.1	7675.7					

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Sample Name: ccv Acquired: 7/3/2014 20:22:05 Type: QC									
Method: Accutest1(v213) 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	1.963	2.005	1.974	2.013	2.042	1.954	2.046	2.030	2.459
Stddev	.005	.021	.019	.015	.013	.012	.014	.015	.0010
%RSD	.2350	1.026	.9656	.7332	.6189	.6111	.6674	.7153	.3957
#1	1.959	1.991	1.960	2.002	2.051	1.962	2.056	2.019	2.466
#2	1.966	2.020	1.987	2.023	2.033	1.945	2.037	2.040	2.452
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	2.005	2.043	1.947	2.028	2.017	1.950	1.948	39.12	40.88
Stddev	.011	.017	.021	.017	.016	.018	.021	.04	.09
%RSD	.5569	.8514	1.085	.8274	.8092	.9206	1.077	.0943	.2252
#1	2.012	2.030	1.932	2.016	2.006	1.937	1.933	39.10	40.82
#2	1.997	2.055	1.962	2.040	2.029	1.962	1.963	39.15	40.95
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	40.54	40.08	39.41	39.62	1.943	1.979	1.956	4.917	2.006
Stddev	.09	.15	.13	.05	.017	.020	.009	.048	.021
%RSD	.2224	.3820	.3375	.1367	.8528	1.004	.4739	.9728	1.022
#1	40.47	39.97	39.31	39.59	1.931	1.965	1.963	4.883	1.991
#2	40.60	40.19	39.50	39.66	1.955	1.993	1.950	4.950	2.020
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: 7/3/2014 20:28:17 Type: QC									
Method: Accutest1(v213) 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	.0003	.0001	.0003	.0004	.0003	.0004	.0004	.0001
Stddev	.0000	.0000	.0000	.0001	.0001	.0001	.0000	.0002	.0000
%RSD	2.951	13.25	6.592	37.90	27.33	57.41	5.700	45.52	20.96
#1	.0004	.0003	.0001	.0003	.0004	.0004	.0004	.0005	.0001
#2	.0004	.0004	.0001	.0002	.0003	.0002	.0004	.0002	.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	.0004	.0003	.0007	.0002	.0000	.0004	.0001	.0086	.0124
Stddev	.0003	.0001	.0005	.0002	.001	.0006	.0001	.0038	.0007
%RSD	62.31	18.84	65.44	91.26	2428.	167.7	125.5	43.67	5.495
#1	.0006	.0003	.0011	.0001	.0004	.0008	.0001	.0059	.0119
#2	.0002	.0002	.0004	.0004	.0004	.0001	.0000	.0113	.0129
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	.0081	.0054	.0119	.0118	.0018	.0009	.0004	.0000	.0002
Stddev	.0004	.0006	.0331	.0075	.0003	.0002	.0002	.000	.0003
%RSD	4.564	10.92	53.60	62.77	17.73	23.52	52.72	1962.	144.0
#1	.0078	.0050	.0384	.0172	.0016	.0010	.0002	.0003	.0000
#2	.0084	.0058	.0853	.0066	.0021	.0007	.0005	.0002	.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: ccv Acquired: 7/3/2014 20:22:05 Type: QC									
Method: Accutest1(v213) 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	2.003	1.980	1.926	2.017	1.944	1.929	1.975		
Stddev	.000	.014	.024	.013	.018	.021	.004		
%RSD	.0137	.6842	1.247	.6529	.9164	1.061	.2025		
#1	2.003	1.990	1.909	2.027	1.931	1.915	1.972		
#2	2.003	1.971	1.943	2.008	1.956	1.944	1.978		
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	194200.	48101.	3050.3	7931.8					
Stddev	1160.	13.	24.9	48.8					
%RSD	.59742	.02690	.81482	.61550					
#1	193380.	48110.	3067.9	7966.3					
#2	195020.	48092.	3032.7	7897.3					

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Sample Name: ccb Acquired: 7/3/2014 20:28:17 Type: QC									
Method: Accutest1(v213) 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	.0004	.0093	.0006	.0004	.0007	.0022		
Stddev	.0000	.0000	.0015	.0001	.0012	.0003	.0008		
%RSD	8.937	11.36	16.25	11.09	298.6	43.89	33.67		
#1	.0004	.0003	.0104	.0007	.0013	.0009	.0028		
#2	.0005	.0004	.0083	.0006	.0005	.0005	.0017		
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	203210.	47887.	3146.5	8194.9					
Stddev	1680.	857.	35.7	79.4					
%RSD	.82692	1.7899	1.1359	.96923					
#1	204400.	48493.	3121.2	8138.7					
#2	202020.	47281.	3171.8	8251.0					

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Sample Name: jb70718-6 Acquired: 7/3/2014 20:34:29 Type: Unk									
Method: Accutest1(v213) 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	.3763	.0000	.0001	-0.0006	.0038	.0004	.0029	.0019	.0011
Stddev	.0002	.0000	.0000	.0001	.0001	.0001	.0000	.0003	.0001
%RSD	.0477	664.8	44.01	10.16	1.625	17.72	.6443	14.06	5.074
#1	.3762	.0000	.0001	-0.0006	.0037	.0005	.0029	.0018	.0011
#2	.3764	.0000	.0000	-0.0006	.0038	.0004	.0029	.0021	.0012
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0036	.0023	.0035	-0.0004	.0001	.0026	.0002	.1713	71.29
Stddev	.0001	.0001	.0006	.0004	.0003	.0003	.0005	.0097	.00
%RSD	2.982	3.988	17.07	99.82	344.3	10.84	254.3	5.637	.0064
#1	.0037	.0022	.0039	-0.0001	.0003	.0024	-0.0002	.1645	71.29
#2	.0035	.0023	.0030	-0.0007	.0003	.0028	.0005	.1782	71.30
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0783	45.12	1.959	39.04	.0301	.0004	-0.0004	9.418	-0.0018
Stddev	.0002	.08	.001	.08	.0002	.0001	.0001	.015	.0003
%RSD	.2034	.1790	.0399	.2096	.7586	30.68	12.94	.1614	17.39
#1	.0782	45.06	1.959	38.98	.0303	.0003	-0.0004	9.429	-0.0021
#2	.0785	45.18	1.960	39.10	.0300	.0004	-0.0004	9.407	-0.0016
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	1.191	.0011	.0083	-0.0012	4.126	-0.0014	.0073		
Stddev	.001	.0003	.0004	.0000	.004	.0003	.0006		
%RSD	.0915	31.44	5.057	.5376	.0962	18.38	8.031		
#1	1.190	.0014	.0086	-0.0012	4.128	-0.0016	.0069		
#2	1.192	.0009	.0080	-0.0012	4.123	-0.0012	.0077		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	195730.	48007.	3020.5	7828.2					
Stddev	805.	35.	6.5	20.6					
%RSD	.41127	.07300	.21379	.26312					
#1	195160.	47982.	3016.0	7813.7					
#2	196300.	48032.	3025.1	7842.8					

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Sample Name: jb70718-8 Acquired: 7/3/2014 20:46:55 Type: Unk									
Method: Accutest1(v213) 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	.0000	.0000	.0003	-0.0001	.0001	-0.0002	.0000
Stddev	.000	.000	.0000	.000	.0002	.0002	.0000	.0003	.0002
%RSD	34.54	8.976	23.75	3.536	81.11	192.7	33.04	116.9	698.5
#1	.0000	.0000	.0000	.0000	.0004	-0.0002	.0001	-0.0004	.0002
#2	.0000	.0000	.0000	.0000	.0001	.0000	.0000	.0000	-0.0001
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	-0.0001	.0015	-0.0007	-0.0009	-0.0002	.0002	-0.0003	.0011	.0211
Stddev	.0001	.0001	.0004	.0002	.0005	.0015	.0000	.0002	.0008
%RSD	169.6	4.698	54.74	20.06	261.3	646.8	10.26	14.98	3.792
#1	.0000	.0016	-0.0004	-0.0010	-0.0005	.0013	-0.0003	.0010	.0205
#2	-0.0002	.0015	-0.0009	-0.0008	.0002	-0.0008	-0.0002	.0013	.0217
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0034	.0069	-0.0742	.0099	.0005	.0001	-0.0004	.0211	.0001
Stddev	.0006	.0025	.0184	.0032	.0003	.0000	.0004	.0002	.0003
%RSD	17.37	36.62	24.87	32.30	55.47	29.08	90.08	.7383	422.5
#1	.0038	.0086	-.0611	.0077	.0007	.0002	-0.0002	.0212	.0003
#2	.0030	.0051	-.0872	.0122	.0003	.0001	-0.0007	.0210	-0.0002
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0000	.0002	.0029	.0002	.0031	-0.0015	.0023		
Stddev	.0001	.0001	.0003	.0000	.0007	.0004	.0007		
%RSD	254.3	31.42	10.83	17.34	21.80	24.66	29.38		
#1	.0000	.0002	.0026	.0003	.0036	-0.0018	.0028		
#2	.0001	.0003	.0031	.0002	.0026	-0.0013	.0018		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	204570.	48613.	3158.7	8211.1					
Stddev	1031.	155.	21.1	37.2					
%RSD	.50416	.31822	.66820	.45313					
#1	205300.	48723.	3173.7	8237.4					
#2	203840.	48504.	3143.8	8184.8					

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Sample Name: jb70718-7 Acquired: 7/3/2014 20:40:43 Type: Unk									
Method: Accutest1(v213) 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	.4436	.0000	.0003	-0.0005	.0029	.0007	.0063	.0012	.0010
Stddev	.0042	.000	.0000	.0001	.0001	.0004	.0000	.0001	.0001
%RSD	.9497	.9319	13.32	17.46	4.391	54.95	.3176	11.10	9.714
#1	.4466	.0000	.0003	-0.0006	.0029	.0009	.0063	.0013	.0009
#2	.4406	.0000	.0003	-0.0005	.0028	.0004	.0063	.0011	.0010
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0022	.0051	.0022	.0008	.0012	.0024	-0.0003	.3066	102.0
Stddev	.0002	.0001	.0004	.0003	.0001	.0012	.0008	.0062	1.6
%RSD	8.032	1.208	20.02	38.10	11.43	47.07	335.0	2.019	1.610
#1	.0023	.0051	.0025	.0010	.0013	.0016	-0.0009	.3109	103.2
#2	.0020	.0052	.0019	.0006	.0011	.0033	.0003	.3022	100.9
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.2081	39.44	1.570	46.04	.0323	.0256	.0003	8.985	-0.0017
Stddev	.0031	.57	.022	.51	.0001	.0003	.0004	.009	.0006
%RSD	1.509	1.454	1.386	1.113	.3051	.9940	150.3	.1025	38.03
#1	.2103	39.85	1.585	46.40	.0323	.0254	.0000	8.979	-0.0022
#2	.2059	39.04	1.555	45.68	.0322	.0258	.0005	8.992	-0.0012
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.6548	.0038	.0051	-0.0015	6.941	-0.0011	.0086		
Stddev	.0061	.0001	.0005	.0001	.010	.0003	.0012		
%RSD	.9360	1.772	9.794	4.566	.1458	24.39	13.54		
#1	.6591	.0038	.0054	-0.0015	6.933	-0.0009	.0094		
#2	.6504	.0039	.0047	-0.0014	6.948	-0.0013	.0078		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	195800.	47639.	3015.3	7811.2					
Stddev	474.	594.	3.0	11.0					
%RSD	.24231	1.2468	.09929	.14127					
#1	195470.	47219.	3017.4	7819.0					
#2	196140.	48059.	3013.2	7803.4					

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Sample Name: jb70821-1										Acquired: 7/3/2014 20:53:05										Type: Unk																									
Method: Accutest1(v213)										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	13.48					-0.0001					.0011					-0.0007					.0013					.0019					.1009					.0028					.0000				
Stddev	.04					.0000					.0001					.0001					.0001					.0001					.0001					.0000					.0000				
%RSD	.3296					19.26					6.535					17.80					9.898					5.880					.1161					.5940					1806.				
#1	13.52					-0.0001					.0011					-0.0006					.0012					.0018					.1009					.0028					-0.0001				
#2	13.45					-0.0001					.0012					-0.0008					.0014					.0020					.1010					.0028					.0001				
Elem	V_2924					Zn2062					As1890					Ti1908					Pb2203					Se1960					Sb2068					Al3961					Ca3179				
Avg	.0028					.0090					.0356					.0011					.0030					-0.0006					.0007					1.172					7.348				
Stddev	.0000					.0001					.0003					.0006					.0007					.0001					.0003					.001					.019				
%RSD	1.414					.5831					.8439					51.87					21.72					8.169					41.36					.1012					.2633				
#1	.0028					.0090					.0354					.0007					.0026					-0.0006					.0009					1.171					7.334				
#2	.0028					.0091					.0358					.0015					.0035					-0.0007					.0005					1.172					7.362				
Elem	Fe2599					Mg2790					K_7664					Na5895					B_2089					Mo2020					Pd3404					Si2124					Sn1899				
Avg	.7097					2.879					2.999					97.07					.0508					.0097					-0.0030					4.605					-0.0004				
Stddev	.0036					.018					.006					.61					.0003					.0001					.0003					.019					.0004				
%RSD	.5034					.6200					.2075					.6287					.5281					1.409					10.15					.4173					88.04				
#1	.7072					2.866					3.004					96.63					.0506					.0096					-0.0032					4.591					-0.0007				
#2	.7123					2.892					2.995					97.50					.0510					.0098					-0.0028					4.618					-0.0002				
Elem	Sr4077					Ti3349					W_2079					Zr3391					S_1820					Bi2230					Li6707														
Avg	.1334					.0055					.0020					-0.0098					14.93					-0.0025					.0141														
Stddev	.0000					.0001					.0004					.0001					.06					.0002					.0008														
%RSD	.0369					1.750					22.35					.5427					.4211					9.291					5.356														
#1	.1334					.0056					.0023					-0.0098					14.88					-0.0023					.0147														
#2	.1335					.0055					.0017					-0.0098					14.97					-0.0026					.0136														
Int. Std.	Y_3600					Y_3710					Y_2243					In2306																													
Avg	198650.					48419.					3093.9					8105.2																													
Stddev	676.					285.					9.8					23.5																													
%RSD	.34049					.58765					.31796					.28982																													
#1	199130.					48620.					3100.8					8121.8																													
#2	198170.					48217.					3086.9					8088.6																													

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Sample Name: jb70718-2f Acquired: 7/3/2014 20:59:25 Type: Unk
Method: Accutest1(v213) 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	.3449	.0000	.0002	-.0007	.0015	.0066	.0012	.0015	.0012
Stddev	.0008	.000	.0000	.0000	.0000	.0000	.0000	.0001	.0001
%RSD	.2260	12.17	4.948	2.283	2.731	4.181	1.252	4.708	4.552

#1	.3443	.0000	.0002	-.0007	.0015	.0068	.0013	.0015	.0011
#2	.3454	.0000	.0002	-.0007	.0015	.0064	.0012	.0014	.0012

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0025	.0206	.0030	-.0003	.0008	.0020	.0003	.1145	106.2
Stddev	.0001	.0002	.0001	.0008	.0004	.0005	.0002	.0004	1.0
%RSD	3.860	1.011	4.506	246.1	42.83	25.76	77.30	.3433	.9626

#1	.0024	.0204	.0029	-.0009	.0011	.0024	.0001	.1147	105.5
#2	.0025	.0207	.0031	-.0002	.0006	.0016	.0004	.1142	106.9

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0271	36.48	1.597	84.28	.0508	.0089	-.0002	9.512	-.0020
Stddev	.0003	.14	.002	.81	.0001	.0001	.0004	.023	.0001
%RSD	.9549	.3843	.1092	.9570	.2187	1.563	218.8	.2387	2.491

#1	.0273	36.38	1.598	83.71	.0508	.0088	.0001	9.496	-.0021
#2	.0269	36.58	1.595	84.85	.0507	.0090	-.0004	9.528	-.0020

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Avg	.7687	.0002	.0025	-.0016	8.177	-.0013	.0075
Stddev	.0024	.0001	.0001	.0000	.021	.0004	.0007
%RSD	.3153	81.13	3.523	1.932	.2503	26.72	9.564

#1	.7669	.0003	.0025	-.0016	8.163	-.0016	.0080
#2	.7704	.0001	.0024	-.0017	8.192	-.0011	.0070

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	193500.	47460.	3000.2	7761.1
Stddev	2.	168.	6.7	4.5
%RSD	.00117	.35473	.22409	.05763

#1	193500.	47579.	3004.9	7764.3
#2	193500.	47341.	2995.4	7758.0

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Sample Name: jb70718-3f Acquired: 7/3/2014 21:05:44 Type: Unk
Method: Accutest1(v213) 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	.7528	.0000	.0005	-.0006	.0023	.0007	.0060	.0005	.0013
Stddev	.0031	.000	.0001	.0001	.0001	.0002	.0000	.0001	.0001
%RSD	.4090	4.289	12.11	13.08	3.451	28.07	.1834	28.12	7.543

#1	.7506	.0000	.0004	-.0006	.0024	.0006	.0060	.0006	.0013
#2	.7550	.0000	.0005	-.0005	.0022	.0008	.0060	.0004	.0014

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0034	.0036	.0027	-.0013	-.0003	.0045	-.0005	.1275	123.4
Stddev	.0003	.0000	.0001	.0008	.0001	.0005	.0003	.0017	.0
%RSD	7.728	.0471	5.442	60.46	30.16	10.19	73.50	1.352	.0257

#1	.0032	.0036	.0026	-.0007	-.0002	.0049	-.0007	.1263	123.4
#2	.0035	.0036	.0028	-.0019	-.0003	.0042	-.0002	.1288	123.4

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0131	57.06	3.724	47.11	.0389	.0007	-.0004	10.07	-.0020
Stddev	.0005	.23	.004	.16	.0003	.0001	.0002	.02	.0003
%RSD	3.689	.3945	.1112	.3477	.6959	15.64	43.18	.2259	17.35

#1	.0127	56.90	3.721	46.99	.0387	.0008	-.0003	10.05	-.0018
#2	.0134	57.22	3.727	47.22	.0391	.0006	-.0005	10.08	-.0022

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Avg	1.201	.0004	.0024	-.0024	12.95	-.0012	.0100
Stddev	.005	.0003	.0003	.0000	.05	.0001	.0007
%RSD	.3892	80.78	11.19	.4867	.3575	10.29	6.794

#1	1.198	.0002	.0022	-.0024	12.92	-.0011	.0104
#2	1.204	.0006	.0026	-.0024	12.98	-.0012	.0095

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	191870.	47328.	2980.8	7722.7
Stddev	11.	215.	1.5	2.2
%RSD	.00598	.45484	.05091	.02832

#1	191860.	47480.	2979.7	7721.1
#2	191880.	47175.	2981.8	7724.2

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Sample Name: jb70718-4f Acquired: 7/3/2014 21:11:58 Type: Unk
Method: Accutest1(v213) 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	.2922	.0000	.0004	-.0005	.0019	.0009	.0045	.0006	.0014
Stddev	.0063	.000	.0001	.0000	.0005	.0000	.0000	.0004	.0001
%RSD	2.143	231.0	27.46	7.757	26.19	3.931	.9560	66.72	9.393

#1	.2966	.0000	.0005	-.0005	.0022	.0009	.0045	.0008	.0015
#2	.2877	.0000	.0003	-.0006	.0015	.0009	.0046	.0003	.0013

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0023	.0058	.0031	.0007	.0004	.0058	-.0004	.1266	123.8
Stddev	.0002	.0000	.0005	.0005	.0002	.0006	.0004	.0062	1.7
%RSD	8.285	.0245	17.23	72.24	58.80	10.44	106.9	4.876	1.365

#1	.0024	.0058	.0035	.0003	.0005	.0062	-.0006	.1222	125.0
#2	.0022	.0058	.0027	.0010	.0002	.0054	-.0001	.1310	122.6

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0153	36.31	1.584	87.37	.0625	.0015	.0003	9.789	-.0023
Stddev	.0001	.82	.026	1.13	.0005	.0002	.0005	.062	.0001
%RSD	.5842	2.258	1.644	1.291	.7949	13.47	153.1	.6338	6.058

#1	.0154	36.89	1.602	88.17	.0628	.0016	.0000	9.833	-.0023
#2	.0153	35.73	1.565	86.57	.0621	.0014	.0006	9.745	-.0022

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Avg	.5262	.0004	.0020	-.0024	26.09	-.0013	.0119
Stddev	.0118	.0002	.0002	.0001	.15	.0001	.0008
%RSD	2.238	66.51	11.23	3.450	.5736	8.911	6.909

#1	.5346	.0005	.0021	-.0024	26.20	-.0014	.0125
#2	.5179	.0002	.0018	-.0025	25.99	-.0012	.0113

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	192220.	47018.	2993.4	7741.8
Stddev	1645.	882.	17.2	28.6
%RSD	.85562	1.8766	.57367	.36947

#1	193380.	46394.	2981.2	7721.6
#2	191060.	47642.	3005.5	7762.1

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[Zoom In](#)
[Zoom Out](#)

Sample Name: jb70718-5f Acquired: 7/3/2014 21:18:16 Type: Unk
Method: Accutest1(v213) 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	.4215	-.0001	.0005	-.0007	.0048	.0044	-.0001	.0012	.0019
Stddev	.0006	.0000	.0001	.0002	.0001	.0003	.0000	.0001	.0002
%RSD	.1464	30.95	11.78	23.55	2.431	6.325	1.125	8.556	11.92

#1	.4210	-.0001	.0004	-.0006	.0049	.0042	-.0001	.0012	.0020
#2	.4219	-.0001	.0005	-.0008	.0048	.0046	-.0001	.0011	.0017

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0013	.0121	.0015	.0013	.0013	.0020	.0002	.1670	171.2
Stddev	.0000	.0001	.0002	.0001	.0004	.0001	.0004	.0040	1.0
%RSD	1.192	.6378	15.51	6.831	28.13	6.170	175.7	2.401	.5805

#1	.0013	.0122	.0013	.0013	.0010	.0020	.0004	.1641	171.9
#2	.0013	.0120	.0017	.0012	.0015	.0019	.0000	.1698	170.5

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0222	37.49	1.739	97.09	.0456	.0511	.0004	10.28	-.0025
Stddev	.0012	.01	.010	1.16	.0001	.0002	.0002	.01	.0001
%RSD	5.565	.0377	.5799	1.191	.2133	.4475	38.04	.0981	5.428

#1	.0213	37.50	1.732	96.27	.0456	.0513	.0005	10.29	-.0026
#2	.0231	37.48	1.746	97.90	.0455	.0510	.0003	10.27	-.0024

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Avg	.3888	.0001	.0019	-.0020	11.52	-.0013	.0094
Stddev	.0004	.0000	.0001	.0002	.01	.0008	.0007
%RSD	.1071	16.86	7.179	9.076	.1021	56.81	7.748

#1	.3885	.0001	.0020	-.0022	11.53	-.0008	.0099
#2	.3891	.0001	.0018	-.0019	11.51	-.0019	.0089

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	190750.	47107.	2967.4	7654.8
Stddev	57.	108.	5.6	3.2
%RSD	.02992	.23023	.18821	.04118

#1	190790.	47031.	2963.4	7652.6
#2	190710.	47184.	2971.3	7657.1

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Sample Name: jb70718-6f Acquired: 7/3/2014 21:24:34 Type:UNK
Method: Accutest1(v213) 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	.3698	-0.001	.0003	-0.0006	.0010	-0.0001	.0008	.0008	.0007
Stddev	.0007	.0000	.0001	.0001	.0001	.0000	.0000	.0001	.0004
%RSD	.1769	11.63	15.68	17.08	13.20	11.84	3.501	17.87	57.19

#1	.3694	-0.001	.0004	-.0005	.0009	-.0001	.0008	.0007	.0004
#2	.3703	-0.001	.0003	-.0006	.0010	-.0001	.0009	.0009	.0009

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0035	.0017	.0019	-0.0001	.0006	.0023	-0.0002	.0845	72.27
Stddev	.0001	.0000	.0000	.0000	.0006	.0004	.0004	.0092	.75
%RSD	2.650	1.385	2.583	10.67	104.0	18.49	260.9	10.92	1.040

#1	.0035	.0017	.0020	-.0001	.0010	.0026	.0001	.0780	72.81
#2	.0034	.0017	.0019	-.0001	.0002	.0020	-.0004	.0911	71.74

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0192	45.45	1.975	39.46	.0291	-0.0001	-0.0010	9.218	-0.0022
Stddev	.0005	.06	.015	.04	.0004	.0002	.0001	.004	.0008
%RSD	2.723	.1380	.7724	.0950	1.426	357.9	5.559	.0392	37.07

#1	.0189	45.49	1.964	39.44	.0294	-.0002	-.0010	9.220	-.0017
#2	.0196	45.40	1.985	39.49	.0288	.0001	-.0010	9.215	-.0028

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Avg	1.182	-0.0002	.0006	-0.0016	4.133	-0.0022	.0064
Stddev	.002	.0000	.0004	.0000	.004	.0008	.0009
%RSD	.1545	17.21	67.00	2.640	.0973	35.46	13.77

#1	1.181	-.0001	.0008	-.0016	4.130	-.0027	.0071
#2	1.184	-.0002	.0003	-.0016	4.135	-.0016	.0058

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	196000.	47263.	3031.4	7850.4
Stddev	196.	132.	1.0	.6
%RSD	.10020	.28018	.03199	.00777

#1	196140.	47170.	3030.7	7850.8
#2	195860.	47357.	3032.1	7850.0

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Sample Name: ccv Acquired: 7/3/2014 21:30:49 Type:QC
Method: Accutest1(v213) 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	1.964	2.024	1.984	2.026	2.032	1.941	2.040	2.034	2.451
Stddev	.000	.021	.003	.005	.002	.008	.007	.006	.0009
%RSD	.0205	1.037	.1391	.2384	.1171	.4341	.3434	.2821	.3545

#1	1.964	2.039	1.986	2.030	2.034	1.947	2.035	2.038	2.457
#2	1.964	2.009	1.982	2.023	2.031	1.935	2.045	2.030	2.445

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	1.992	2.060	1.946	2.035	2.027	1.965	1.951	39.68	41.35
Stddev	.001	.006	.001	.003	.009	.003	.002	.02	.08
%RSD	.0305	.2926	.0392	.1693	.4486	.1560	.0906	.0534	2014

#1	1.992	2.064	1.946	2.037	2.034	1.963	1.950	39.67	41.41
#2	1.991	2.055	1.945	2.033	2.021	1.968	1.952	39.70	41.29

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	40.82	40.53	39.39	40.01	1.945	1.975	1.949	4.916	2.016
Stddev	.03	.19	.06	.03	.000	.002	.007	.001	.006
%RSD	.0735	.4627	.1550	.0856	.0027	.1041	.3635	.0152	.2931

#1	40.84	40.66	39.44	40.04	1.945	1.977	1.954	4.916	2.020
#2	40.80	40.40	39.35	39.99	1.945	1.974	1.944	4.917	2.012

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: 7/3/2014 21:30:49 Type:QC
Method: Accutest1(v213) 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	2.018	1.978	1.855	2.009	1.952	1.924	1.975
Stddev	.009	.005	.004	.007	.003	.000	.002
%RSD	.4302	.2557	.2115	.3413	.1584	.0214	.1078

#1	2.024	1.982	1.852	2.014	1.949	1.924	1.974
#2	2.012	1.974	1.857	2.004	1.954	1.923	1.977

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	195500.	47525.	3062.5	7951.2
Stddev	243.	255.	1.4	10.7
%RSD	.12406	.53605	.04712	.13518

#1	195330.	47345.	3061.5	7943.6
#2	195670.	47706.	3063.5	7958.8

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Sample Name: ccb Acquired: 7/3/2014 21:37:04 Type:QC
Method: Accutest1(v213) 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	.0003	.0002	.0002	.0003	-.0003	.0004	.0003	-.0003
Stddev	.0002	.0000	.0001	.0001	.0001	.0001	.0001	.0000	.0002
%RSD	57.59	1.965	67.23	61.33	45.01	39.15	17.46	.9188	75.17

#1	.0005	.0003	.0001	.0002	.0004	-.0002	.0005	.0003	-.0004
#2	.0002	.0003	.0002	.0001	.0002	-.0004	.0004	.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	.0004	-0.0001	.0009	.0006	.0013	-0.0004	.0005	.0138	.0119
Stddev	.0002	.0001	.0001	.0002	.0003	.0013	.0002	.0014	.0011
%RSD	41.75	99.56	8.501	31.24	24.72	318.0	42.41	10.01	9.332

#1	.0006	-.0002	.0008	.0005	.0015	-.0013	.0007	.0128	.0127
#2	.0003	.0000	.0009	.0007	.0010	.0005	.0004	.0147	.0111

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	.0087	.0116	-.0410	.0072	.0014	.0008	.0005	.0003	.0000
Stddev	.0003	.0118	.0170	.0003	.0003	.0002	.0001	.0002	.000
%RSD	4.005	102.2	41.37	3.477	18.05	31.53	14.73	74.32	570.9

#1	.0089	.0032	-.0530	.0071	.0016	.0009	.0004	.0005	-.0002
#2	.0084	.0199	-.0290	.0074	.0012	.0006	.0005	.0002	.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: 7/3/2014 21:37:04 Type: QC							
Method: Accutest1(v213) 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	.0005	.0088	.0007	.0001	.0002	.0018
Stddev	.0000	.0000	.0004	.0000	.0001	.0002	.0008
%RSD	5.247	9.187	4.634	.9774	87.49	74.67	44.42
#1	.0005	.0006	.0091	.0006	.0002	.0001	.0012
#2	.0005	.0005	.0085	.0007	.0000	.0003	.0023
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	203990.	48574.	3179.7	8256.5			
Stddev	2311.	978.	17.7	39.8			
%RSD	1.1330	2.0127	.55522	.48222			
#1	202360.	47883.	3192.2	8284.7			
#2	205630.	49265.	3167.2	8228.4			

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Sample Name: jb70718-7f Acquired: 7/3/2014 21:43:16 Type: Unk										
Method: Accutest1(v213) 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	.4939	.0000	.0003	-.0007	.0017	.0002	.0005	.0003	.0013	
Stddev	.0002	.000	.0001	.0001	.0001	.0000	.0000	.0000	.0002	
%RSD	.0425	6.181	30.73	15.33	3.770	15.22	1.585	18.34	14.95	
#1	.4940	.0000	.0002	-.0007	.0017	.0002	.0005	.0003	.0011	
#2	.4937	.0000	.0004	-.0006	.0017	.0002	.0005	.0002	.0014	
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179	
Avg	.0021	.0038	.0016	-.0003	.0009	.0013	.0000	.1205	115.1	
Stddev	.0000	.0001	.0004	.0003	.0007	.0003	.0003	.0003	.9	
%RSD	1.458	2.372	26.74	117.2	72.92	22.40	765.1	.2897	.7559	
#1	.0021	.0037	.0019	-.0001	.0005	.0011	.0003	.1208	115.8	
#2	.0022	.0039	.0013	-.0005	.0014	.0015	-.0002	.1203	114.5	
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899	
Avg	.0129	44.30	1.774	52.19	.0362	.0295	.0004	9.614	-.0027	
Stddev	.0006	.08	.011	.09	.0000	.0000	.0006	.009	.0001	
%RSD	4.779	.1853	.6010	.1717	.0232	.0076	143.8	.0905	2.964	
#1	.0133	44.36	1.766	52.13	.0362	.0295	.0009	9.607	-.0026	
#2	.0124	44.24	1.781	52.25	.0362	.0295	.0000	9.620	-.0027	
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707			
Avg	.7349	.0000	.0108	-.0013	7.811	-.0013	.0093			
Stddev	.0013	.0005	.0012	.0000	.007	.0001	.0000			
%RSD	.1771	.4925.	11.46	2.180	.0960	7.817	.3727			
#1	.7358	-.0004	.0117	-.0013	7.806	-.0014	.0093			
#2	.7339	.0004	.0099	-.0014	7.816	-.0013	.0093			
Int. Std.	Y_3600	Y_3710	Y_2243	In2306						
Avg	194210.	47408.	3009.8	7786.8						
Stddev	47.	33.	1.9	5.8						
%RSD	.02419	.06911	.06355	.07418						
#1	194180.	47385.	3011.1	7790.9						
#2	194250.	47431.	3008.4	7782.7						

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Sample Name: jb70666-2a Acquired: 7/3/2014 21:49:29 Type: Unk									
Method: Accutest1(v213) 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	.0000	-.0001	.0002	-.0004	.0000	-.0001	.0001
Stddev	.0001	.000	.0001	.0000	.0000	.0001	.0000	.0000	.0004
%RSD	471.1	50.05	456.2	36.30	11.03	22.91	19.59	19.89	376.2
#1	.0001	-.0001	.0000	-.0001	.0002	-.0003	.0000	-.0001	.0004
#2	-.0001	.0000	.0000	-.0001	.0002	-.0005	.0001	-.0001	-.0002
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	-.0001	.0011	-.0003	-.0005	.0000	.0006	.0000	.0054	.0123
Stddev	.0001	.0001	.0005	.0005	.001	.0008	.0003	.0022	.0000
%RSD	154.8	7.820	142.8	104.2	22350.	129.9	762.1	41.05	.0478
#1	.0000	.0012	.0000	-.0009	.0003	.0001	.0003	.0038	.0123
#2	-.0002	.0010	-.0007	-.0001	-.0003	.0012	-.0002	.0070	.0123
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0247	.0010	-.0641	.0010	.0006	.0002	-.0003	.0091	-.0003
Stddev	.0012	.0095	.0249	.0009	.0001	.0001	.0000	.0005	.0004
%RSD	4.979	955.4	38.86	90.36	17.88	41.14	14.10	5.400	158.4
#1	.0256	-.0057	-.0817	.0003	.0005	.0001	-.0002	.0087	-.0006
#2	.0239	.0077	-.0465	.0016	.0007	.0003	-.0003	.0094	.0000
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0000	.0004	.0032	.0000	.0018	-.0010	.0018		
Stddev	.0000	.0001	.0000	.0001	.0002	.0003	.0006		
%RSD	1129.	24.84	1.129	231.3	8.968	28.34	34.15		
#1	.0000	.0003	.0032	.0000	.0019	-.0008	.0022		
#2	.0000	.0004	.0032	.0001	.0017	-.0012	.0013		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	205170.	48364.	3155.4	8203.7					
Stddev	13.	262.	2.2	4.1					
%RSD	.00621	.54218	.07009	.05009					
#1	205180.	48179.	3156.9	8206.6					
#2	205160.	48550.	3153.8	8200.8					

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Sample Name: jb70619-19 Acquired: 7/3/2014 21:55:39 Type: Unk									
Method: Accutest1(v213) 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	.0543	.0007	.0002	.0090	.7177	.0620	.4844	.0452	
Stddev	.0001	.0000	.0001	.0001	.0050	.0002	.0027	.0000	
%RSD	.1676	4.614	35.51	1.522	.6909	.3717	.5511	.0545	
#1	.0544	.0007	.0002	.0091	.7142	.0619	.4825	.0452	
#2	.0542	.0008	.0001	.0089	.7212	.0622	.4863	.0452	
Elem	Ag3280	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	
Avg	.0053	.0988	.0283	.0429	F -.0038	.0392	.0219	.0002	
Stddev	.0000	.0004	.0000	.0008	.0006	.0006	.0001	.0013	
%RSD	.1239	.4207	.1386	1.975	16.46	1.557	.6071	851.5	
#1	.0053	.0985	.0284	.0423	-.0034	.0387	.0218	.0011	
#2	.0053	.0991	.0283	.0435	-.0043	.0396	.0220	-.0008	
Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	
Avg	14.51	111.9	21.03	7.638	20.18	990.8	.6789	.0238	
Stddev	.06	.7	.01	.017	.01	14.2	.0002	.0001	
%RSD	.3882	.6118	.0705	.2240	.0259	1.431	.0223	.3969	
#1	14.55	111.4	21.04	7.626	20.18	1001.	.6770	.0238	
#2	14.47	112.3	21.02	7.650	20.17	980.8	.6768	.0239	
Elem	Pd3404	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	
Avg	.0105	17.95	-.0027	.3753	.2733	.0056	-.0009	F 656.2	
Stddev	.0002	.08	.0003	.0007	.0048	.0005	.0001	.5	
%RSD	1.763	.4539	12.43	.1919	1.768	9.714	9.346	.0779	
#1	.0106	18.00	-.0025	.3758	.2699	.0060	-.0010	656.5	
#2	.0104	17.89	-.0029	.3748	.2767	.0052	-.0009	655.8	
Elem	Bi2230	Li6707							
Avg	.0039	.0154							
Stddev	.0008	.0004							
%RSD	20.10	2.763							
#1	.0033	.0157							
#2	.0045	.0151							

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Sample Name: jb70619-19 Acquired: 7/3/2014 21:55:39 Type: Unk
Method: Accutest1(v213) 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	180190.	46691.	2878.3	7043.1
Stddev	605.	112.	.2	1.9
%RSD	.33567	.24061	.00711	.02659
#1	180620.	46770.	2878.5	7044.4
#2	179760.	46611.	2878.2	7041.8

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Sample Name: jb70619-19f Acquired: 7/3/2014 22:01:54 Type: Unk
Method: Accutest1(v213) 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	.0159	.0000	-.0003	.0047	.7689	.0392	.2210	.0367
Stddev	.0001	.0000	.0002	.0002	.0006	.0002	.0006	.0001
%RSD	.7075	133.7	79.69	4.087	.0841	.4098	.2861	.2632
#1	.0158	.0000	-.0001	.0045	.7694	.0391	.2205	.0367
#2	.0160	.0000	-.0004	.0048	.7684	.0394	.2214	.0368
Elem	Ag3280	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068
Avg	.0024	.0395	-.0012	.0401	F -.0043	.0082	.0246	.0003
Stddev	.0001	.0000	.0003	.0005	.0005	.0008	.0003	.0004
%RSD	4.026	.0815	21.71	1.229	11.68	9.412	1.210	159.0
#1	.0023	.0395	-.0010	.0397	-.0040	.0077	.0248	.0000
#2	.0024	.0395	-.0014	.0404	-.0047	.0087	.0244	.0006
Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Avg	.5478	108.8	.0616	7.478	21.88	F 1121.	.7360	.0273
Stddev	.0125	6.0	.0003	.102	.15	52.	.0026	.0002
%RSD	2.290	5.545	.5635	1.358	.6835	4.638	.3533	.6511
#1	.5567	104.5	.0619	7.550	21.99	1084.	.7378	.0272
#2	.5390	113.1	.0614	7.406	21.78	1158.	.7341	.0274
Elem	Pd3404	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820
Avg	.0090	2.922	-.0018	.3892	.0014	.0037	F -.0271	F 733.8
Stddev	.0001	.006	.0004	.0020	.0003	.0003	.0003	5.9
%RSD	8.222	.2012	22.72	.5020	18.51	7.097	1.190	.8069
#1	.0091	2.926	-.0015	.3906	.0012	.0035	-.0274	738.0
#2	.0090	2.918	-.0021	.3878	.0016	.0038	-.0269	729.6
Elem	Bi2230	Li6707						
Avg	-.0006	.0054						
Stddev	.0000	.0002						
%RSD	6.308	3.675						
#1	-.0007	.0053						
#2	-.0006	.0055						

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Sample Name: jb70619-19f Acquired: 7/3/2014 22:01:54 Type: Unk
Method: Accutest1(v213) 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	174990.	45631.	2809.4	6880.4
Stddev	214.	545.	9.0	17.7
%RSD	.12250	1.1935	.32104	.25780
#1	175140.	45246.	2803.0	6867.8
#2	174830.	46016.	2815.8	6892.9

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Sample Name: jb70644-14 Acquired: 7/3/2014 22:08:15 Type: Unk
Method: Accutest1(v213) 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	.0002	-.0004	.0008	.0000	.0000
Stddev	.0001	.000	.0000	.0002	.0003	.0002	.0000	.0001	.0001
%RSD	41.73	42.17	21.63	219.9	109.3	49.24	.3240	2282.	214.7
#1	.0002	-.0001	.0001	-.0002	.0004	-.0005	.0008	-.0001	.0000
#2	.0003	.0000	.0001	.0000	.0001	-.0002	.0008	.0001	.0001
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	-.0001	.0023	-.0005	-.0007	.0001	.0009	.0012	.0098	.0159
Stddev	.0002	.0001	.0008	.0001	.0003	.0012	.0001	.0004	.0008
%RSD	214.1	5.096	158.5	8.996	262.8	135.2	6.237	4.311	5.333
#1	.0000	.0022	-.0010	-.0006	.0003	.0000	.0011	.0101	.0165
#2	-.0002	.0024	.0001	-.0007	-.0001	.0017	.0012	.0095	.0153
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0084	.0023	-.0289	.1091	.0012	.0001	.0006	.0158	-.0004
Stddev	.0008	.0057	.0158	.0065	.0004	.0001	.0005	.0004	.0004
%RSD	11.84	251.2	54.65	5.954	31.54	113.0	84.02	2.221	97.38
#1	.0069	.0063	-.0177	.1045	.0009	.0000	.0010	.0161	-.0006
#2	.0059	-.0018	-.0400	.1137	.0015	.0002	.0003	.0156	-.0001
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0001	.0001	.0014	.0001	.0337	-.0008	.0022		
Stddev	.0000	.0003	.0004	.0000	.0011	.0002	.0003		
%RSD	29.38	269.9	28.26	3.168	3.248	21.10	12.33		
#1	.0001	.0004	.0011	.0001	.0345	-.0007	.0020		
#2	.0000	-.0001	.0017	.0001	.0329	-.0009	.0024		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	205090.	48334.	3146.5	8180.3					
Stddev	148.	291.	2.8	4.2					
%RSD	.07225	.60239	.09020	.05104					
#1	205190.	48540.	3148.5	8183.2					
#2	204990.	48128.	3144.5	8177.3					

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Sample Name: jb70672-5 Acquired: 7/3/2014 22:14:23 Type: Unk
Method: Accutest1(v213) 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	.0000	.0005	-.0006	.0003	.0000	-.0002
Stddev	.0000	.000	.0000	.000	.0002	.0002	.0000	.000	.0003
%RSD	8.069	11.86	55.44	74.62	31.14	34.10	.7161	282.7	195.9
#1	.0002	.0000	.0000	.0000	.0004	-.0007	.0003	.0000	-.0004
#2	.0002	.0000	.0001	-.0001	.0007	-.0004	.0003	-.0001	.0001
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0000	.0014	-.0006	-.0016	-.0003	.0006	.0005	.0138	.0701
Stddev	.000	.0000	.0001	.0001	.0006	.0009	.0005	.0004	.0007
%RSD	592.3	2.660	25.21	7.500	220.4	133.8	90.07	2.592	.9745
#1	.0000	.0015	-.0007	-.0017	-.0007	.0012	.0009	.0141	.0706
#2	-.0001	.0014	-.0005	-.0015	.0001	.0000	.0002	.0136	.0696
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0079	.0215	-.0492	.2418	.0019	.0001	-.0010	.1307	.0002
Stddev	.0003	.0083	.0013	.0055	.0004	.0000	.0003	.0006	.0005
%RSD	4.285	38.62	2.600	2.270	22.64	38.16	29.19	.4295	236.8
#1	.0077	.0274	-.0501	.2457	.0016	.0001	-.0008	.1311	.0005
#2	.0082	.0156	-.0483	.2380	.0022	.0001	-.0013	.1303	-.0001
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0001	.0005	.0017	.0002	.0212	-.0015	.0006		
Stddev	.0000	.0001	.0009	.0001	.0003	.0006	.0001		
%RSD	14.17	18.42	51.64	39.15	1.640	42.67	17.96		
#1	.0002	.0004	.0024	.0002	.0214	-.0019	.0007		
#2	.0001	.0006	.0011	.0001	.0209	-.0010	.0006		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	204960.	48416.	3157.2	8202.6					
Stddev	40.	95.	4.0	4.9					
%RSD	.01975	.19673	.12772	.06015					
#1	204930.	48349.	3154.3	8199.1					
#2	204990.	48483.	3160.0	8206.0					

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Sample Name: mp80392-mb1 Acquired: 7/3/2014 22:26:34 Type: Unk
Method: Accutest1(v213) 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	.0030	.0000	.0001	.0005	.0007	.0000	.0010	.0008	-.0002
Stddev	.0001	.0000	.0001	.0001	.0001	.000	.0000	.0002	.0000
%RSD	4.982	4.117	162.6	18.95	8.442	11.38	3.729	23.79	17.26
#1	.0031	.0000	.0001	.0005	.0007	.0000	.0010	.0009	-.0002
#2	.0028	.0000	.0000	.0006	.0007	.0000	.0011	.0006	-.0001
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0005	.0049	.0020	.0004	.0031	.0009	.0438	.0796	
Stddev	.0002	.0001	.0001	.0003	.0005	.0001	.0001	.0005	.0011
%RSD	29.94	2.058	3.578	16.90	141.4	2.329	12.34	1.077	1.406
#1	.0004	.0050	.0021	.0023	.0007	.0031	.0010	.0435	.0804
#2	.0006	.0049	.0020	.0018	.0000	.0030	.0009	.0441	.0788
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0635	.0222	-.0133	.0445	.0010	.0001	.0003	.0287	.0090
Stddev	.0009	.0044	.0005	.0060	.0003	.0001	.0008	.0002	.0001
%RSD	1.360	19.87	3.482	13.58	34.36	82.34	312.9	.5668	.5833
#1	.0629	.0191	-.0136	.0402	.0007	.0002	.0008	.0286	.0090
#2	.0641	.0253	-.0130	.0488	.0012	.0000	-.0003	.0288	.0090
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0001	.0011	.0004	.0005	.0149	.0000	.0022		
Stddev	.0000	.0005	.0003	.0000	.0002	.0001	.0001		
%RSD	4.319	47.67	85.48	2.784	1.308	512.0	3.497		
#1	.0001	.0008	.0001	.0005	.0151	.0000	.0022		
#2	.0001	.0015	.0006	.0005	.0148	.0001	.0021		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	205540.	48806.	3154.8	8209.3					
Stddev	492.	295.	1.0	4.5					
%RSD	.23925	.60368	.03213	.05542					
#1	205890.	48598.	3154.1	8206.1					
#2	205190.	49015.	3155.5	8212.5					

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Sample Name: jb70677-1 Acquired: 7/3/2014 22:20:31 Type: Unk
Method: Accutest1(v213) 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	.0849	.0004	.0006	.0112	.0233	.0307	1.009	.0169	.0017
Stddev	.0001	.0000	.0000	.0003	.0000	.0002	.003	.0003	.0002
%RSD	.1438	4.867	3.044	2.631	.0936	.5150	.2761	1.695	13.68
#1	.0848	.0004	.0006	.0114	.0233	.0306	1.007	.0167	.0015
#2	.0850	.0004	.0006	.0110	.0233	.0308	1.011	.0171	.0019
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0445	.0730	.0064	.0008	.0154	.0006	.0016	10.17	28.27
Stddev	.0002	.0000	.0002	.0004	.0001	.0006	.0005	.02	.12
%RSD	.3809	.0141	2.379	46.41	.6979	100.6	33.58	.1604	.4243
#1	.0444	.0730	.0065	.0006	.0153	.0010	.0012	10.16	28.18
#2	.0447	.0730	.0063	.0011	.0155	.0002	.0020	10.19	28.35
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	18.90	7.898	3.097	8.324	.0742	.0022	.0012	22.94	-.0020
Stddev	.07	.052	.001	.004	.0009	.0002	.0005	.02	.0001
%RSD	.3716	.6589	.0212	.0445	1.147	9.114	37.58	.1029	3.484
#1	18.85	7.861	3.098	8.326	.0748	.0024	.0015	22.96	-.0021
#2	18.95	7.935	3.097	8.321	.0736	.0021	.0009	22.92	-.0020
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.1264	.5427	.0061	.0030	5.848	.0073	.0104		
Stddev	.0001	.0003	.0005	.0001	.002	.0001	.0008		
%RSD	.0677	.0630	7.670	1.762	.0333	1.251	7.273		
#1	.1264	.5429	.0057	.0031	5.849	.0073	.0110		
#2	.1265	.5425	.0064	.0030	5.847	.0072	.0099		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	204430.	49016.	3139.5	8126.3					
Stddev	300.	343.	2.8	4.3					
%RSD	.14665	.70036	.08992	.05238					
#1	204640.	49259.	3137.5	8123.3					
#2	204210.	48773.	3141.5	8129.3					

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Sample Name: mp80392-b1 Acquired: 7/3/2014 22:32:43 Type: Unk
Method: Accutest1(v213) 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	3.983	.1053	.1062	1.022	4.196	.4843	1.053	1.039	.0995
Stddev	.032	.0012	.0000	.000	.0007	.0001	.002	.000	.0002
%RSD	.7963	1.180	.0130	.0212	.1568	.0154	.1420	.0290	.1600
#1	3.961	.1061	.1062	1.022	.4201	.4843	1.052	1.039	.0997
#2	4.006	.1044	.1062	1.022	.4192	.4844	1.054	1.039	.0994
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.9986	1.118	4.006	4.192	1.040	4.158	.9969	54.11	13.35
Stddev	.0007	.001	.001	.004	.001	.003	.0006	.65	.14
%RSD	.0726	.0501	.0234	.1084	.0619	.0626	.0567	1.199	1.077
#1	.9981	1.119	4.006	4.196	1.040	4.160	.9965	54.57	13.45
#2	.9991	1.118	4.005	4.189	1.041	4.156	.9973	53.65	13.25
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	54.68	13.32	12.91	13.17	.0018	.0021	-.0031	.0613	.0148
Stddev	.63	.14	.14	.16	.0001	.0004	.0005	.0002	.0002
%RSD	1.154	1.040	1.060	1.230	7.095	17.44	15.43	.3404	1.415
#1	55.12	13.42	13.01	13.28	.0017	.0023	-.0027	.0615	.0149
#2	54.23	13.23	12.81	13.05	.0019	.0018	-.0034	.0612	.0146
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0000	.0034	.0096	.0002	.0309	-.0042	.0006		
Stddev	.000	.0004	.0007	.0000	.0008	.0006	.0003		
%RSD	225.7	11.75	7.580	5.457	2.710	13.42	48.15		
#1	.0000	.0031	.0101	.0002	.0315	-.0038	.0008		
#2	-.0001	.0037	.0091	.0002	.0303	-.0046	.0004		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	200310.	47939.	3096.7	8091.8					
Stddev	276.	483.	8	6.6					
%RSD	.13783	1.0077	.02661	.08147					
#1	200120.	47597.	3096.2	8087.1					
#2	200510.	48280.	3097.3	8096.5					

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Sample Name: ccv Acquired: 7/3/2014 22:38:50 Type: QC									
Method: Accutest1(v213) 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	1.958	2.011	1.985	2.025	2.036	1.944	2.041	2.033	2.445
Stddev	.002	.039	.002	.000	.001	.002	.002	.000	.0004
%RSD	.1148	1.942	.1146	.0054	.0422	.0996	.0958	.0201	.1609
#1	1.959	1.984	1.986	2.025	2.037	1.943	2.042	2.033	2.442
#2	1.956	2.039	1.983	2.026	2.036	1.946	2.039	2.033	2.447
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	2.058	1.945	2.027	2.028	1.966	1.951	39.53	41.21
Stddev	.001	.000	.002	.005	.002	.000	.001	.02	.06
%RSD	.0468	.0115	.0754	.2513	.1132	.0172	.0499	.0382	.1544
#1	1.993	2.058	1.944	2.031	2.026	1.965	1.951	39.52	41.17
#2	1.994	2.058	1.946	2.023	2.029	1.966	1.950	39.54	41.26
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	40.74	40.42	39.34	39.84	1.941	1.973	1.944	4.915	2.016
Stddev	.02	.09	.03	.00	.001	.001	.002	.002	.001
%RSD	.0429	.2122	.0799	.0124	.0581	.0254	.1021	.0449	.0549
#1	40.72	40.36	39.37	39.84	1.942	1.973	1.942	4.916	2.017
#2	40.75	40.48	39.32	39.84	1.940	1.973	1.945	4.913	2.016
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: 7/3/2014 22:45:03 Type: QC									
Method: Accutest1(v213) 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	.0004	.0002	.0003	.0004	-.0002	.0005	.0003	-.0003
Stddev	.0001	.0000	.0000	.0000	.0002	.0002	.0000	.0003	.0001
%RSD	30.72	11.96	8.519	8.324	40.17	75.66	6.107	98.26	30.32
#1	.0004	.0004	.0002	.0004	.0003	-.0004	.0005	.0001	-.0002
#2	.0005	.0005	.0001	.0003	.0005	-.0001	.0004	.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	.0005	-.0002	.0009	.0005	.0001	-.0003	.0000	.0081	.0122
Stddev	.0001	.0000	.0002	.0005	.0004	.0004	.0009	.0054	.0034
%RSD	19.08	7.478	20.25	100.6	357.4	125.5	287.2	66.98	27.71
#1	.0004	-.0002	.0011	.0009	.0004	-.0006	.0007	.0042	.0098
#2	.0005	-.0002	.0008	.0002	-.0002	.0000	-.0006	.0119	.0146
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	.0093	.0073	-.0494	.0205	.0020	.0009	.0005	.0001	.0000
Stddev	.0013	.0000	.0501	.0019	.0006	.0001	.0003	.0002	.001
%RSD	13.95	.3845	101.4	9.270	28.06	11.66	65.75	222.7	2095.
#1	.0084	.0073	-.0849	.0192	.0024	.0009	.0007	-.0001	.0003
#2	.0102	.0073	-.0140	.0218	.0016	.0010	.0003	.0002	-.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: ccv Acquired: 7/3/2014 22:38:50 Type: QC									
Method: Accutest1(v213) 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	2.000	1.972	1.872	2.006	1.954	1.920	1.978		
Stddev	.027	.002	.007	.001	.001	.001	.004		
%RSD	1.362	.0806	.3837	.0479	.0497	.0443	.1750		
#1	2.019	1.973	1.867	2.007	1.955	1.920	1.980		
#2	1.980	1.971	1.877	2.006	1.954	1.919	1.975		
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	196200.	47751.	3065.6	7962.4					
Stddev	63.	66.	3.0	6.4					
%RSD	.03211	.13831	.09911	.08012					
#1	196160.	47798.	3063.4	7957.9					
#2	196250.	47705.	3067.7	7966.9					

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Sample Name: ccb Acquired: 7/3/2014 22:45:03 Type: QC									
Method: Accutest1(v213) 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	.0008	.0114	.0008	.0034	.0002	.0025		
Stddev	.0000	.0000	.0009	.0000	.0006	.0007	.0009		
%RSD	9.163	2.660	8.071	.3888	18.43	393.8	34.35		
#1	.0005	.0008	.0120	.0008	.0038	.0007	.0019		
#2	.0005	.0008	.0107	.0008	.0029	-.0003	.0031		
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	205530.	48533.	3160.5	8207.3					
Stddev	403.	79.	9.9	22.3					
%RSD	.19624	.16278	.31304	.27220					
#1	205810.	48588.	3167.5	8223.1					
#2	205240.	48477.	3153.5	8191.5					

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Sample Name: mp80392-s1 Acquired: 7/3/2014 22:51:14 Type: Unk
Method: Accutest1(v213) 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	3.922	.1013	.1029	1.005	.5561	.5555	2.640	1.133	.0947
Stddev	.007	.0002	.0004	.001	.0006	.0017	.003	.002	.0006
%RSD	.1704	.2153	.3880	.0747	.1019	.2993	.1067	.1473	.6590
#1	3.927	.1012	.1032	1.005	.5557	.5566	2.642	1.134	.0943
#2	3.918	.1015	.1027	1.004	.5565	.5543	2.638	1.132	.0952
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	1.102	1.444	3.790	3.934	1.236	3.896	.4470	138.3	26.08
Stddev	.001	.003	.007	.005	.000	.010	.0017	.1	.07
%RSD	.0791	.2040	.1756	.1180	.0320	.2662	.3822	.0710	.2809
#1	1.103	1.446	3.795	3.937	1.236	3.904	.4482	138.2	26.03
#2	1.101	1.441	3.785	3.931	1.235	3.889	.4458	138.4	26.13
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	207.7	48.30	30.05	17.79	.0976	.0090	.0019	4.147	.0231
Stddev	1.6	.23	.04	.00	.0014	.0001	.0001	.007	.0002
%RSD	.7494	.4840	.1498	.0066	1.395	.7129	6.937	.1727	.9929
#1	206.6	48.14	30.01	17.78	.0986	.0089	.0020	4.152	.0233
#2	208.8	48.47	30.08	17.79	.0966	.0090	.0018	4.142	.0230
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.1648	2.304	.0230	.0663	66.40	.0348	.1777		
Stddev	.0000	.002	.0010	.0002	.14	.0004	.0001		
%RSD	.0210	.0832	4.492	.3632	.2068	1.165	.0673		
#1	.1648	2.306	.0237	.0662	66.50	.0351	.1777		
#2	.1648	2.303	.0222	.0665	66.30	.0345	.1776		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	204280.	50496.	3188.4	8150.2					
Stddev	114.	149.	4.5	6.1					
%RSD	.05567	.29423	.14241	.07447					
#1	204360.	50601.	3185.2	8146.0					
#2	204200.	50391.	3191.6	8154.5					

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Sample Name: mp80392-s2 Acquired: 7/3/2014 22:57:29 Type: Unk
Method: Accutest1(v213) 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	3.952	.1009	.1026	.9972	.5727	.5812	2.872	1.148	.0927
Stddev	.077	.0001	.0005	.0057	.0024	.0023	.025	.006	.0000
%RSD	1.962	.1020	.4389	.5688	.4211	.3881	.8736	.5606	.0068
#1	4.007	.1010	.1029	1.001	.5710	.5796	2.854	1.153	.0927
#2	3.897	.1009	.1022	.9932	.5744	.5828	2.890	1.143	.0927
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	1.116	1.520	3.753	3.855	1.241	3.865	.4204	153.1	28.29
Stddev	.004	.007	.023	.020	.004	.017	.0020	.4	.03
%RSD	.3845	.4514	.6107	.5062	.2794	.4422	.4802	.2316	.1074
#1	1.113	1.524	3.769	3.868	1.244	3.877	.4218	152.8	28.31
#2	1.119	1.515	3.736	3.841	1.239	3.853	.4190	153.3	28.27
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	250.1	54.82	31.38	18.12	.1035	.0125	.0017	4.426	.0251
Stddev	1.2	.16	.05	.04	.0009	.0002	.0002	.031	.0000
%RSD	.4675	.2914	.1551	.2320	.8968	1.362	10.68	.7067	.1456
#1	251.0	54.93	31.41	18.09	.1042	.0126	.0018	4.448	.0251
#2	249.3	54.71	31.34	18.15	.1029	.0124	.0016	4.404	.0250
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.1825	2.459	.0223	.0689	87.75	.0392	.2223		
Stddev	.0002	.009	.0002	.0004	.45	.0010	.0012		
%RSD	.0900	.3644	.8745	.5919	.5106	2.448	.5255		
#1	.1826	2.452	.0225	.0686	88.06	.0385	.2232		
#2	.1823	2.465	.0222	.0691	87.43	.0399	.2215		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	203620.	50151.	3176.9	8156.5					
Stddev	695.	146.	15.3	30.3					
%RSD	.34125	.29194	.48079	.37148					
#1	204110.	50048.	3166.1	8135.0					
#2	203120.	50255.	3187.7	8177.9					

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Sample Name: jb70517-1 Acquired: 7/3/2014 23:03:44 Type: Unk
Method: Accutest1(v213) 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	.2506	.0051	.0029	.0751	.1822	.1143	2.061	.2146	.0007
Stddev	.0000	.0000	.0002	.0000	.0010	.0002	.002	.0006	.0000
%RSD	.0049	.0061	6.991	.0260	.5592	.1797	.0751	.2671	.0377
#1	.2506	.0051	.0031	.0751	.1815	.1141	2.062	.2142	.0007
#2	.2505	.0051	.0028	.0751	.1830	.1144	2.060	.2150	.0007
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.1924	.4846	.0909	.0012	.2388	.0016	.0049	91.94	18.85
Stddev	.0009	.0000	.0007	.0001	.0013	.0001	.0008	.14	.00
%RSD	.4935	.0002	.7150	4.265	.5616	4.031	17.00	.1509	.0262
#1	.1918	.4846	.0914	.0013	.2379	.0015	.0043	91.84	18.85
#2	.1931	.4846	.0904	.0012	.2398	.0016	.0055	92.04	18.86
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	200.4	43.99	18.45	5.821	.0942	.0148	.0049	3.939	.0245
Stddev	5	.03	.02	.008	.0003	.0001	.0001	.003	.0005
%RSD	.2294	.0777	.1290	.1432	.3403	.8959	2.060	.0840	2.010
#1	200.1	43.97	18.47	5.816	.0939	.0149	.0049	3.937	.0241
#2	200.8	44.02	18.43	5.827	.0944	.0147	.0048	3.942	.0248
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.1911	2.263	.0129	.0634	97.77	.0378	.2016		
Stddev	.0001	.003	.0009	.0003	.01	.0003	.0006		
%RSD	.0580	.1495	6.682	.5041	.0052	.8793	.3042		
#1	.1912	2.260	.0135	.0632	97.77	.0380	.2020		
#2	.1910	2.265	.0123	.0637	97.76	.0375	.2011		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	206280.	50952.	3200.7	8181.1					
Stddev	61.	87.	4	2.7					
%RSD	.02953	.16989	.01097	.03307					
#1	206330.	50891.	3201.0	8183.0					
#2	206240.	51014.	3200.5	8179.2					

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Sample Name: mp80392-sd1 Acquired: 7/3/2014 23:09:56 Type: Unk
Method: Accutest1(v213) 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	.2681	.0051	.0032	.0787	.1966	.1168	2.258	.2286	.0078
Stddev	.0004	.0000	.0001	.0004	.0011	.0011	.004	.0001	.0001
%RSD	.1344	.3533	3.854	.5337	.5696	.9427	.1667	.0596	1.280
#1	.2683	.0051	.0032	.0784	.1958	.1160	2.255	.2287	.0077
#2	.2678	.0051	.0033	.0790	.1974	.1176	2.261	.2285	.0079
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.2053	.5314	.0968	.0045	.2540	.0012	.0083	97.27	20.34
Stddev	.0003	.0012	.0003	.0015	.0010	.0047	.0021	.07	.08
%RSD	.1440	.2267	.3260	33.90	.4013	393.2	25.73	.0679	.4164
#1	.2051	.5323	.0966	.0034	.2547	.0021	.0068	97.23	20.28
#2	.2055	.5306	.0970	.0056	.2532	.0045	.0098	97.32	20.40
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	226.3	47.35	19.27	6.220	.1017	.0147	.0031	4.102	.0258
Stddev	3	.10	.03	.023	.0000	.0007	.0002	.005	.0032
%RSD	.1381	.2044	.1641	.3693	.0187	4.824	7.445	.1210	12.57
#1	226.1	47.28	19.25	6.204	.1017	.0142	.0029	4.105	.0235
#2	226.5	47.42	19.30	6.237	.1017	.0152	.0033	4.098	.0280
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.2017	2.383	.0209	.0680	104.8	.0363	.2233		
Stddev	.0004	.000	.0033	.0002	.2	.0012	.0013		
%RSD	.2002	.0056	15.81	.3244	.1576	3.443	.5918		
#1	.2020	2.383	.0232	.0679	104.9	.0371	.2224		
#2	.2015	2.383	.0185	.0682	104.7	.0354	.2242		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	205250.	48867.	3182.8	8225.1					
Stddev	413.	172.	2.4	11.3					
%RSD	.20098	.35250	.07421	.13767					
#1	205540.	48988.	3184.5	8233.1					
#2	204950.	48745.	3181.1	8217.1					

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Sample Name: mp80418-mb1conf Acquired: 7/3/2014 23:15:59 Type: Unk
Method: Accutest1(v213) 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	.0000	.0002	.0023	.0081	.0033	.0013	.0001
Stddev	.0000	.0000	.0000	.0000	.0002	.0001	.0000	.0001	.0002
%RSD	.6085	54.87	198.8	16.62	11.02	1.221	.4421	6.470	143.0
#1	.0063	.0000	.0000	.0002	.0024	.0081	.0033	.0014	.0000
#2	.0063	.0000	.0001	.0002	.0021	.0082	.0033	.0013	.0002
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0002	.0131	.0004	.0003	.0056	.0001	.0006	.0476	.2245
Stddev	.0001	.0001	.0002	.0001	.0005	.0000	.0002	.0010	.0010
%RSD	43.84	.8541	49.24	40.99	9.258	31.34	35.62	2.125	.4645
#1	.0001	.0131	.0006	.0002	.0060	.0001	.0008	.0468	.2253
#2	.0003	.0132	.0003	.0004	.0053	.0001	.0005	.0483	.2238
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0542	.0578	.0235	.0710	.0016	.0000	.0006	.4810	.0002
Stddev	.0000	.0068	.0201	.0009	.0003	.0000	.0002	.0040	.0003
%RSD	.0009	11.84	85.49	1.281	16.33	35.60	34.87	.8417	158.2
#1	.0542	.0530	.0376	.0704	.0018	.0001	.0004	.4781	.0004
#2	.0542	.0627	.0093	.0717	.0014	.0000	.0007	.4838	.0000
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0067	.0005	.0023	.0001	1.555	.0011	.0011		
Stddev	.0001	.0002	.0001	.0000	.002	.0004	.0005		
%RSD	.8022	38.92	4.209	6.831	.1152	33.37	46.10		
#1	.0067	.0007	.0022	.0001	1.553	.0008	.0015		
#2	.0066	.0004	.0023	.0001	1.556	.0013	.0007		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	206480.	48742.	3164.6	8245.7					
Stddev	239.	379.	1.6	4.4					
%RSD	.11574	.77750	.04971	.05290					
#1	206650.	49010.	3165.7	8248.8					
#2	206310.	48474.	3163.5	8242.6					

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Sample Name: mp80418-sd1 3 Acquired: 7/3/2014 23:22:08 Type: Unk
Method: Accutest1(v213) 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	.0538	.0003	.0000	.0124	.0030	.0014	.0028	.0076	.0000
Stddev	.0004	.0001	.0000	.0007	.0006	.0007	.0002	.0005	.0007
%RSD	.7760	29.08	414.5	6.012	20.91	52.15	5.654	6.468	3126.
#1	.0541	.0002	.0001	.0119	.0025	.0009	.0029	.0072	.0005
#2	.0535	.0003	.0002	.0130	.0034	.0020	.0027	.0079	.0005
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0017	.0100	.0020	.0022	.0032	.0012	.0010	.6064	10.44
Stddev	.0002	.0002	.0012	.0007	.0009	.0038	.0046	.0319	.03
%RSD	12.54	2.226	63.22	29.82	28.89	305.4	468.7	5.266	.2781
#1	.0019	.0102	.0028	.0018	.0039	.0039	.0023	.6290	10.42
#2	.0016	.0099	.0011	.0027	.0026	.0014	.0042	.5838	10.47
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.6695	.8595	52.61	31.56	2.167	.0088	.0024	9.668	.0023
Stddev	.0031	.0055	.21	.10	.013	.0003	.0028	.071	.0024
%RSD	.4666	.6388	.3959	.3073	.5939	3.101	117.3	.7357	101.0
#1	.6717	.8556	52.46	31.63	2.158	.0090	.0043	9.618	.0040
#2	.6673	.8633	52.75	31.49	2.176	.0086	.0044	9.719	.0007
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0805	.0111	.0086	.0008	29.49	.0008	.0100		
Stddev	.0000	.0004	.0006	.0005	.18	.0005	.0045		
%RSD	.0569	3.367	7.161	66.64	.6190	62.84	45.39		
#1	.0805	.0114	.0081	.0004	29.36	.0004	.0132		
#2	.0805	.0109	.0090	.0012	29.62	.0011	.0068		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	204380.	48256.	3145.7	8192.5					
Stddev	556.	34.	17.7	43.3					
%RSD	.27185	.06943	.56137	.52886					
#1	204780.	48280.	3158.2	8223.1					
#2	203990.	48233.	3133.3	8161.8					

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Sample Name: jb70619-19 2 Acquired: 7/3/2014 23:28:16 Type: Unk
Method: Accutest1(v213) Mode: CONC Corr. Factor: 2.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Avg	.0536	.0007	.0000	.0086	.7385	.0619	.4936	.0449	.0066
Stddev	.0002	.0000	.0000	.0002	.0002	.0001	.0010	.0001	.0004
%RSD	.2913	2.257	183.2	2.608	.0260	.1344	.2862	.2862	5.351
#1	.0538	.0007	.0001	.0084	.7384	.0620	.4943	.0448	.0069
#2	.0535	.0007	.0000	.0087	.7387	.0618	.4929	.0450	.0064
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.1005	.0302	.0469	.0018	.0415	.0216	.0020	13.76	115.7
Stddev	.0005	.0002	.0006	.0002	.0005	.0051	.0003	.01	.2
%RSD	.5064	.6776	1.196	10.93	1.088	23.68	13.70	.0785	.1321
#1	.1008	.0301	.0465	.0017	.0418	.0253	.0018	13.76	115.5
#2	.1001	.0304	.0473	.0020	.0412	.0180	.0022	13.75	115.8
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	21.40	7.815	20.15	1062.	.6870	.0243	.0109	16.81	.0046
Stddev	.03	.021	.08	.14	.0009	.0001	.0003	.02	.0004
%RSD	.1586	.2736	.3826	1.302	.1370	.2401	2.393	.1435	9.609
#1	21.38	7.800	20.21	1052.	.6863	.0244	.0107	16.83	.0049
#2	21.43	7.830	20.10	1071.	.6877	.0243	.0111	16.79	.0043
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.3789	.2426	.0054	.0044	F 732.0	.0034	.0154		
Stddev	.0009	.0036	.0008	.0002	1.0	.0015	.0012		
%RSD	.2371	1.488	14.63	5.045	.1379	44.27	7.588		
#1	.3796	.2400	.0049	.0046	732.7	.0044	.0163		
#2	.3783	.2451	.0060	.0043	731.3	.0023	.0146		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	186910.	47188.	2980.0	7436.5					
Stddev	138.	123.	1.5	5.8					
%RSD	.07400	.26132	.04956	.07840					
#1	187000.	47275.	2978.9	7440.7					
#2	186810.	47101.	2981.0	7432.4					

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Sample Name: jb70619-19f Acquired: 7/3/2014 23:34:28 Type: Unk
Method: Accutest1(v213) 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	.0161	.0000	.0003	.0041	.7928	.0394	.2276	.0374	
Stddev	.0004	.0000	.0003	.0001	.0010	.0006	.0001	.0003	
%RSD	2.348	107.8	101.5	1.297	.1238	1.641	.0333	.7113	
#1	.0164	.0000	.0001	.0041	.7921	.0399	.2277	.0376	
#2	.0158	.0000	.0006	.0042	.7935	.0390	.2276	.0372	
Elem	Ag3280	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	
Avg	.0023	.0406	.0010	.0457	.0036	.0088	.0236	.0006	
Stddev	.0001	.0006	.0002	.0001	.0010	.0018	.0038	.0006	
%RSD	5.388	1.506	16.84	.2843	28.01	20.56	16.13	108.1	
#1	.0023	.0411	.0012	.0458	.0043	.0101	.0263	.0010	
#2	.0024	.0402	.0009	.0457	.0029	.0075	.0209	.0001	
Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	
Avg	.5699	117.1	.0585	7.706	21.70	1236.	.7429	.0274	
Stddev	.0135	.2	.0014	.045	.03	4.	.0027	.0002	
%RSD	2.374	.1953	2.377	.5875	.1244	.3114	.3605	.7056	
#1	.5795	116.9	.0576	7.674	21.72	1233.	.7448	.0272	
#2	.5604	117.3	.0595	7.738	21.68	1238.	.7410	.0275	
Elem	Pd3404	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	
Avg	.0100	2.890	.0027	.3894	.0010	.0024	F-.0315	F 836.4	
Stddev	.0001	.012	.0014	.0010	.0001	.0019	.0001	3.0	
%RSD	.6992	.4275	51.71	.2621	12.60	78.81	.2346	.3564	
#1	.0101	2.899	.0017	.3902	.0011	.0011	.0016	838.5	
#2	.0100	2.881	.0037	.3887	.0009	.0038	.0015	834.3	
Elem	Bi2230	Li6707							
Avg	.0003	.0047							
Stddev	.0009	.0018							
%RSD	320.8	38.98							
#1	.0009	.0060							
#2	.0003	.0034							

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Sample Name: jb70619-19f Acquired: 7/3/2014 23:34:28 Type: Unk
Method: Accutest1(v213) 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	183580.	46471.	2944.3	7342.8
Stddev	125.	155.	8.5	16.2
%RSD	.06787	.33400	.29009	.22081

#1	183490.	46580.	2938.2	7331.4
#2	183670.	46361.	2950.3	7354.3

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Sample Name: mp80458-b1 2 Acquired: 7/3/2014 23:40:40 Type: Unk
Method: Accutest1(v213) 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	1.938	.0508	.0531	.5010	.2046	.2371	.5106	.5152	.0513
Stddev	.011	.0001	.0003	.0006	.0009	.0018	.0012	.0010	.0006
%RSD	.5589	.1822	.5017	.1235	.4250	.7673	.2341	.2027	1.077

#1	1.946	.0509	.0529	.5014	.2040	.2358	.5098	.5160	.0509
#2	1.931	.0507	.0533	.5005	.2053	.2384	.5115	.5145	.0516

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.4911	.5432	2.094	2.020	2.097	2.249	.4804	1.922	.0081
Stddev	.0012	.0009	.006	.004	.007	.001	.0001	.007	.0010
%RSD	.2355	.1612	.2777	.2129	.3187	.0539	.0175	.3465	12.37

#1	.4903	.5439	2.098	2.023	2.102	2.250	.4804	1.926	.0073
#2	.4919	.5426	2.090	2.017	2.093	2.249	.4805	1.917	.0088

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	1.061	.0183	.1797	10.62	.0042	-.0004	-.0017	.2523	.0015
Stddev	.001	.0060	.0028	10.	.0002	.0000	.0000	.0008	.0000
%RSD	.1112	32.49	1.583	.9711	4.868	3.775	1.295	.3024	1.929

#1	1.060	.0141	.1777	1070.	.0041	-.0004	-.0017	.2528	.0015
#2	1.062	.0225	.1817	1055.	.0043	-.0004	-.0018	.2517	.0015

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Avg	.0057	.0003	.0030	-.0015	.0365	-.0021	.0018
Stddev	.0001	.0000	.0013	.0000	.0002	.0001	.0004
%RSD	1.110	3.320	43.68	3.020	.0789	4.619	20.29

#1	.0058	.0004	.0039	-.0015	.0365	-.0022	.0016
#2	.0057	.0003	.0021	-.0016	.0365	-.0021	.0021

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	178100.	46968.	2894.8	7168.2
Stddev	316.	292.	5.2	14.1
%RSD	.17726	.62093	.18063	.19655

#1	178320.	47174.	2891.1	7158.2
#2	177870.	46762.	2898.5	7178.2

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Sample Name: ccv Acquired: 7/3/2014 23:46:48 Type: QC
Method: Accutest1(v213) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem Units	Ba4554 ppm	Be3130 ppm	Cd2288 ppm	Co2286 ppm	Cr2677 ppm	Cu3247 ppm	Mn2576 ppm	Ni2316 ppm	Ag3280 ppm
Avg	1.999	2.035	2.004	2.046	1.995	1.907	2.004	2.048	.2395
Stddev	.048	.019	.009	.010	.008	.018	.011	.009	.0018
%RSD	2.382	.9178	.4704	.4988	.4153	.9490	.5389	.4452	.7424

#1	1.966	2.022	1.997	2.038	1.989	1.894	1.997	2.042	.2382
#2	2.033	2.048	2.010	2.053	2.001	1.920	2.012	2.055	.2408

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value Range

Elem Units	V_2924 ppm	Zn2062 ppm	As1890 ppm	Ti1908 ppm	Pb2203 ppm	Se1960 ppm	Sb2068 ppm	Al3961 ppm	Ca3179 ppm
Avg	1.956	2.077	1.963	2.041	2.045	1.985	1.968	40.57	42.10
Stddev	.013	.007	.010	.009	.012	.012	.012	.86	.98
%RSD	.6480	.3350	.4948	.4251	.5789	.6147	.5884	2.112	2.330

#1	1.947	2.073	1.957	2.035	2.037	1.976	1.960	39.97	41.41
#2	1.965	2.082	1.970	2.047	2.054	1.993	1.976	41.18	42.80

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value Range

Elem Units	Fe2599 ppm	Mg2790 ppm	K_7664 ppm	Na5895 ppm	B_2089 ppm	Mo2020 ppm	Pd3404 ppm	Si2124 ppm	Sn1899 ppm
Avg	41.63	41.17	40.02	40.82	1.955	1.989	1.906	4.949	2.035
Stddev	1.01	1.00	.96	.83	.015	.011	.020	.028	.010
%RSD	2.421	2.417	2.404	2.031	.7514	.5280	1.031	.5593	.4882

#1	40.92	40.47	39.34	40.24	1.945	1.981	1.892	4.930	2.028
#2	42.34	41.88	40.70	41.41	1.966	1.996	1.920	4.969	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: 7/3/2014 23:46:48 Type: QC
Method: Accutest1(v213) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem Units	Sr4077 ppm	Ti3349 ppm	W_2079 ppm	Zr3391 ppm	S_1820 ppm	Bi2230 ppm	Li6707 ppm
Avg	2.021	1.933	1.893	1.973	1.971	1.930	2.022
Stddev	.044	.014	.020	.017	.006	.009	.048
%RSD	2.175	.7097	1.076	.8760	.3225	.4723	2.383

#1	1.990	1.923	1.878	1.960	1.967	1.923	1.988
#2	2.052	1.943	1.907	1.985	1.976	1.936	2.056

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value Range

Int. Std.	Y_3600 Cts/S	Y_3710 Cts/S	Y_2243 Cts/S	In2306 Cts/S
Avg	199290.	47014.	3041.1	7903.3
Stddev	717.	941.	11.5	24.7
%RSD	.35969	2.0012	.37747	.31231

#1	199800.	47680.	3049.2	7920.7
#2	198790.	46349.	3033.0	7885.8

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Sample Name: ccb Acquired: 7/3/2014 23:53:00 Type: QC
Method: Accutest1(v213) 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	.0004	.0003	.0003	.0003	.0004	.0004	.0004	.0005
Stddev	.0001	.0000	.0001	.0001	.0003	.0003	.0000	.0001
%RSD	25.09	3.268	22.90	33.25	69.21	62.49	4.021	20.29
#1	.0003	.0003	.0003	.0002	.0002	.0002	.0004	.0005
#2	.0005	.0003	.0002	.0004	.0005	.0006	.0005	.0004

Check ? High Limit Low Limit
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	.0000	.0006	.0002	.0007	.0009	.0004	.0008	.0010
Stddev	.0001	.0002	.0001	.0003	.0007	.0002	.0001	.0000
%RSD	281.7	29.84	43.60	48.31	79.90	51.76	10.97	5.057
#1	.0000	.0007	.0003	.0009	.0014	.0002	.0008	.0009
#2	.0001	.0005	.0001	.0004	.0004	.0005	.0009	.0010

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	.0092	.0069	.0075	.0109	.0170	.0438	.0019	.0010
Stddev	.0028	.0006	.0001	.0004	.0015	.0009	.0002	.0002
%RSD	30.32	8.366	.7506	45.06	8.782	2.058	8.166	22.94
#1	.0072	.0065	.0075	.0074	.0160	.0431	.0018	.0012
#2	.0112	.0073	.0074	.0143	.0181	.0444	.0020	.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: 7/3/2014 23:53:00 Type: QC
Method: Accutest1(v213) 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	.0012	.0002	.0004	.0004	.0118	.0008	W .0051
Stddev	.0007	.0004	.0001	.0000	.0000	.0008	.0000	.0016
%RSD	195.1	36.38	67.19	.6649	9.415	6.653	3.512	31.33
#1	.0009	.0015	.0002	.0004	.0004	.0124	.0007	.0063
#2	.0001	.0009	.0001	.0004	.0004	.0112	.0008	.0040

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	.0004	.0012
Stddev	.0005	.0006
%RSD	141.6	45.94
#1	.0008	.0008
#2	.0000	.0016

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	205460.	48417.	3168.9	8225.4
Stddev	533.	451.	.4	4.8
%RSD	.25961	.93116	.01158	.05868
#1	205080.	48099.	3168.6	8228.8
#2	205840.	48736.	3169.2	8222.0

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Sample Name: mp80458-mb1.2 Acquired: 7/3/2014 23:59:11 Type: Unk
Method: Accutest1(v213) 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	.0043	.0001	.0000	.0002	.0013	.0039	.0029	.0024	.0002
Stddev	.0000	.0000	.0000	.0002	.0001	.0001	.0001	.0002	.0001
%RSD	.1681	14.66	94.92	80.17	8.686	2.905	2.051	10.10	62.91
#1	.0043	.0001	.0000	.0001	.0012	.0040	.0030	.0026	.0003
#2	.0043	.0001	.0000	.0003	.0013	.0038	.0029	.0023	.0001

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0000	.0003	.0026	.0010	.0018	.0033	.0004	.0206	.0963
Stddev	.0001	.0000	.0002	.0002	.0002	.0004	.0005	.0056	.0010
%RSD	1623.	13.80	8.280	20.98	10.08	12.07	113.8	27.25	1.053
#1	.0001	.0003	.0025	.0012	.0017	.0030	.0007	.0166	.0956
#2	.0001	.0003	.0028	.0009	.0019	.0036	.0001	.0245	.0970

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.0115	.0286	.1845	F 1068.	.0042	.0001	.0005	.3037	.0017
Stddev	.0006	.0060	.0116	.7	.0006	.0000	.0009	.0008	.0004
%RSD	4.976	20.85	6.271	.6401	13.65	34.14	205.7	.2630	26.55
#1	.0111	.0328	.1927	1063.	.0046	.0002	.0011	.3031	.0020
#2	.0119	.0244	.1763	1073.	.0038	.0001	.0002	.3043	.0014

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Avg	.0059	.0003	.0074	.0000	.0282	.0009	.0016
Stddev	.0000	.0003	.0006	.0000	.0007	.0004	.0002
%RSD	.3742	78.14	7.505	451.4	2.510	39.17	15.05
#1	.0059	.0005	.0078	.0000	.0277	.0006	.0018
#2	.0059	.0001	.0070	.0000	.0287	.0011	.0015

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	178250.	46701.	2880.9	7126.4
Stddev	531.	132.	1.3	3.3
%RSD	.29804	.28253	.04462	.04660
#1	178630.	46795.	2881.8	7124.0
#2	177880.	46608.	2880.0	7128.7

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Sample Name: mp80458-s1 Acquired: 7/4/2014 0:05:26 Type: Unk
Method: Accutest1(v213) 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	1.778	.0468	.0495	.4578	.1892	.3082	.4755	.4727	.0442
Stddev	.000	.0000	.0001	.0003	.0005	.0008	.0001	.0004	.0003
%RSD	.0121	.0886	.2808	.0632	.2705	.2534	.0111	.0766	.7321
#1	1.779	.0468	.0494	.4580	.1895	.3077	.4755	.4729	.0439
#2	1.778	.0468	.0496	.4576	.1888	.3088	.4754	.4724	.0444

Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.4480	2.230	1.855	1.938	2.013	1.969	.4438	1.783	4.925
Stddev	.0006	.003	.001	.002	.005	.002	.0004	.004	.006
%RSD	.1355	.1225	.0326	.0969	.2344	.1086	.0949	.2252	.1243
#1	.4475	2.232	1.854	1.939	2.016	1.967	.4435	1.780	4.930
#2	.4484	2.228	1.855	1.937	2.010	1.970	.4441	1.786	4.921

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	1.105	.3961	.9379	263.4	.0668	.0407	.0021	.6994	.0075
Stddev	.001	.0016	.0044	1.5	.0001	.0001	.0001	.0016	.0004
%RSD	.0791	.3955	.4735	.5711	.2164	.3056	5.740	.2358	5.545
#1	1.104	.3950	.9411	262.4	.0667	.0406	.0020	.6982	.0072
#2	1.105	.3972	.9348	264.5	.0669	.0408	.0022	.7005	.0078

Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707
Avg	.0047	.0010	.0133	.0011	3.183	.0019	.0011
Stddev	.0000	.0001	.0006	.0002	.002	.0001	.0008
%RSD	.5916	10.18	4.784	15.70	.0478	6.521	71.03
#1	.0047	.0009	.0138	.0010	3.184	.0018	.0017
#2	.0047	.0010	.0129	.0012	3.182	.0020	.0006

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Avg	194120.	47949.	3048.4	7786.5
Stddev	470.	167.	2.3	3.5
%RSD	.24210	.34918	.07639	.04544
#1	193780.	47830.	3050.1	7784.0
#2	194450.	48067.	3046.8	7789.0

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Sample Name: mp80458-s2 Acquired: 7/4/2014 0:11:31 Type: Unk
Method: Accutest1(v213) 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	1.490	.0395	.0412	.3830	.1587	.2442	.3988	.3961	.0363
Stddev	.004	.0001	.0001	.0002	.0002	.0002	.0007	.0003	.0003
%RSD	.2649	.1987	.1656	.0414	.1449	.0617	.1854	.0777	.9151
#1	1.487	.0394	.0412	.3829	.1585	.2441	.3993	.3959	.0365
#2	1.493	.0395	.0413	.3831	.1588	.2443	.3983	.3964	.0361
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.3755	1.616	1.552	1.624	1.674	1.651	.3822	1.492	3.406
Stddev	.0003	.003	.001	.004	.002	.002	.0005	.002	.013
%RSD	.0731	.2011	.0497	.2509	.1347	.1082	.1360	.1489	.3866
#1	.3757	1.614	1.553	1.622	1.673	1.652	.3826	1.490	3.415
#2	.3753	1.618	1.551	1.627	1.676	1.650	.3818	1.493	3.396
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.9099	.2725	.6345	183.5	.0470	.0281	-.0016	.6243	.0020
Stddev	.0064	.0017	.0242	1.5	.0004	.0001	.0002	.0002	.0002
%RSD	.7089	.6412	3.806	.8187	.9353	.4793	11.42	.0285	8.880
#1	.9145	.2738	.6516	184.5	.0473	.0280	-.0015	.6242	.0022
#2	.9053	.2713	.6174	182.4	.0466	.0282	-.0018	.6244	.0019
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0033	.0011	.0097	-.0009	2.560	-.0016	.0037		
Stddev	.0000	.0000	.0003	.0000	.000	.0004	.0001		
%RSD	.0809	3.166	3.327	1.428	.0025	25.39	1.837		
#1	.0033	.0012	.0100	-.0009	2.560	-.0013	.0036		
#2	.0033	.0011	.0095	-.0009	2.560	-.0019	.0037		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	195220.	48380.	3056.7	7855.9					
Stddev	92.	269.	3.6	2.2					
%RSD	.04738	.55530	.11782	.02841					
#1	195160.	48190.	3054.1	7854.3					
#2	195290.	48570.	3059.2	7857.4					

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Sample Name: jb70399-1 Acquired: 7/4/2014 0:17:37 Type: Unk
Method: Accutest1(v213) 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	.0105	.0000	.0014	.0008	.0032	.0095	.0128	.0031	.0005
Stddev	.0001	.000	.0001	.0002	.0003	.0000	.0000	.0000	.0000
%RSD	.7674	34.62	4.428	27.53	10.14	.0179	.0083	.8853	5.163
#1	.0105	.0000	.0015	.0009	.0034	.0095	.0128	.0031	.0005
#2	.0106	.0000	.0014	.0006	.0030	.0095	.0128	.0031	.0004
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0002	1.782	.0014	.0010	.0695	-.0020	.0147	.0530	5.050
Stddev	.0001	.000	.0007	.0000	.0002	.0002	.0003	.0007	.005
%RSD	29.67	.0006	52.60	.3549	.2509	8.282	1.939	1.324	.0969
#1	.0003	1.782	.0009	.0010	.0694	-.0019	.0149	.0535	5.047
#2	.0002	1.782	.0019	.0010	.0697	-.0021	.0145	.0525	5.054
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.1389	.3838	.9257	273.2	.0668	.0396	-.0001	.3764	.0014
Stddev	.0007	.0058	.0166	1.7	.0003	.0002	.0001	.0009	.0003
%RSD	.4757	1.520	1.794	.6052	.3932	.3931	.639.7	.2474	22.02
#1	.1394	.3880	.9139	272.0	.0666	.0397	.0004	.3757	.0016
#2	.1384	.3797	.9374	274.3	.0670	.0395	-.0006	.3771	.0011
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0047	.0012	.0078	-.0001	2.349	-.0010	.0022		
Stddev	.0000	.0001	.0002	.0001	.000	.0001	.0006		
%RSD	.6210	11.75	3.036	50.58	.0032	7.676	28.41		
#1	.0047	.0011	.0076	-.0001	2.349	-.0010	.0026		
#2	.0047	.0012	.0079	-.0002	2.349	-.0009	.0017		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	193950.	48150.	3044.9	7783.4					
Stddev	118.	38.	.1	3.5					
%RSD	.06082	.07963	.00244	.04486					
#1	193870.	48123.	3044.8	7785.8					
#2	194030.	48177.	3044.9	7780.9					

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Sample Name: mp80458-sd1 Acquired: 7/4/2014 0:23:49 Type: Unk
Method: Accutest1(v213) 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	.0105	-.0001	.0012	.0011	.0032	.0980	.0129	.0025	-.0009
Stddev	.0001	.0001	.0008	.0004	.0007	.0017	.0000	.0004	.0000
%RSD	.9963	86.21	63.22	36.82	22.91	1.811	.1081	15.46	.6835
#1	.0104	-.0001	.0007	.0008	.0027	.0972	.0129	.0028	-.0009
#2	.0105	-.0002	.0017	.0014	.0037	.0948	.0129	.0023	-.0009
Elem	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Avg	.0004	1.801	.0025	.0724	.0012	.0194	.0570	5.141	
Stddev	.0009	.001	.0009	.0015	.0023	.0077	.0038	.0235	.013
%RSD	200.9	.0638	36.50	248.5	3.186	626.3	19.49	41.15	.2478
#1	.0011	1.802	.0031	-.0005	.0740	.0067	.0167	.0404	5.132
#2	-.0002	1.800	.0018	.0017	.0707	-.0042	.0221	.0736	5.150
Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Pd3404	Si2124	Sn1899
Avg	.1511	.4354	.8108	280.2	.0655	.0394	-.0025	.3937	.0015
Stddev	.0046	.0127	.0047	1	.0002	.0002	.0040	.0009	.0013
%RSD	3.025	2.906	.5809	.0437	.3568	.5508	158.9	.2301	83.12
#1	.1479	.4443	.8075	280.1	.0657	.0393	-.0053	.3931	.0024
#2	.1544	.4264	.8142	280.2	.0653	.0396	.0003	.3944	.0006
Elem	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707		
Avg	.0048	.0009	.0148	-.0003	2.309	.0002	.0070		
Stddev	.0001	.0004	.0025	.0011	.005	.0028	.0014		
%RSD	1.334	45.42	17.02	408.8	.2288	1482.	20.54		
#1	.0048	.0011	.0130	.0005	2.305	.0022	.0060		
#2	.0047	.0006	.0165	-.0010	2.312	-.0018	.0080		
Int. Std.	Y_3600	Y_3710	Y_2243	In2306					
Avg	201780.	48512.	3131.2	8103.0					
Stddev	383.	103.	2.0	4.0					
%RSD	.18982	.21140	.06542	.04980					
#1	201510.	48439.	3129.7	8100.1					
#2	202050.	48584.	3132.6	8105.8					

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Sample Name: ccv Acquired: 7/4/2014 0:29:58 Type: QC
Method: Accutest1(v213) 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	1.945	2.022	1.984	2.022	2.018	1.929	2.025	2.028	.2420
Stddev	.002	.002	.002	.003	.004	.001	.004	.005	.0000
%RSD	.1235	.1117	.0950	.1698	.1897	.0303	.1873	.2325	.0128
#1	1.947	2.020	1.986	2.024	2.015	1.928	2.022	2.031	.2420
#2	1.944	2.023	1.983	2.019	2.021	1.929	2.028	2.024	.2420
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	1.979	2.051	1.940	2.017	2.023	1.965	1.949	39.36	40.94
Stddev	.002	.007	.004	.003	.005	.008	.000	.05	.00
%RSD	.0935	.3430	.2180	.1347	.2602	.4031	.0155	.1287	.0035
#1	1.977	2.056	1.943	2.019	2.027	1.970	1.949	39.40	40.94
#2	1.980	2.046	1.937	2.015	2.019	1.959	1.949	39.32	40.94
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	40.10	39.13	39.65	1.939	1.966	1.931	4.908	2.014
Stddev	.01	.08	.01	.04	.000	.002	.001	.003	.003
%RSD	.0157	.1917	.0193	.1078	.0103	.0774	.0410	.0536	.1467
#1	40.49	40.04	39.12	39.68	1.939	1.967	1.930	4.910	2.014
#2	40.50	40.15	39.14	39.62	1.938	1.965	1.931	4.906	2.011
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: 7/4/2014 0:29:58 Type: QC
Method: Accutest1(v213) 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	1.984	1.956	1.877	1.995	1.946	1.913	1.967
Stddev	.026	.002	.009	.003	.003	.002	.002
%RSD	1.317	.1176	.4664	.1607	.1573	.0785	.1198
#1	1.965	1.955	1.871	1.993	1.948	1.912	1.969
#2	2.002	1.958	1.883	1.998	1.943	1.914	1.965

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	197490.	48094.	3063.4	7959.7
Stddev	283.	35.	1.7	11.6
%RSD	.14305	.07213	.05423	.14530
#1	197690.	48119.	3062.2	7951.5
#2	197290.	48070.	3064.6	7967.9

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Sample Name: ccb Acquired: 7/4/2014 0:36:11 Type: QC
Method: Accutest1(v213) 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	.0004	.0130	.0010	.0008	.0001	.0023
Stddev	.0000	.0001	.0006	.0001	.0006	.0005	.0001
%RSD	3.943	26.61	4.643	6.604	69.60	517.7	5.092
#1	.0005	.0004	.0134	.0009	.0004	.0004	.0022
#2	.0005	.0005	.0125	.0010	.0012	-.0002	.0023

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	205800.	48289.	3172.3	8227.0
Stddev	3138.	278.	6.8	15.4
%RSD	1.5250	.57575	.21376	.18735
#1	203580.	48485.	3177.1	8237.8
#2	208020.	48092.	3167.5	8216.1

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Sample Name: ccb Acquired: 7/4/2014 0:36:11 Type: QC
Method: Accutest1(v213) 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	.0004	.0002	.0003	.0005	-.0004	.0005	.0005	-.0001
Stddev	.0002	.0000	.0002	.0002	.0001	.0000	.0000	.0000	.0001
%RSD	28.80	9.455	72.13	65.70	17.35	7.993	1.567	4.740	68.71
#1	.0004	.0003	.0003	.0004	.0005	-.0003	.0005	.0005	-.0001
#2	.0007	.0004	.0001	.0001	.0006	-.0004	.0005	.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	.0005	-.0002	.0009	.0009	.0001	-.0005	.0011	.0085	.0084
Stddev	.0000	.0001	.0007	.0001	.0000	.0009	.0002	.0002	.0010
%RSD	1.282	62.31	83.12	12.12	9.695	173.7	18.36	1.910	12.12
#1	.0005	-.0001	.0014	.0008	.0001	-.0011	.0010	.0086	.0076
#2	.0005	-.0003	.0004	.0010	.0001	.0001	.0013	.0084	.0091

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	.0085	.0061	-.0242	.0269	.0022	.0009	.0001	.0021	.0003
Stddev	.0007	.0054	.0004	.0018	.0004	.0001	.0002	.0000	.0003
%RSD	8.582	87.12	1.705	6.577	18.03	13.16	132.4	.1680	99.40
#1	.0080	.0024	-.0239	.0281	.0025	.0010	.0002	.0021	.0004
#2	.0090	.0099	-.0245	.0256	.0019	.0008	.0000	.0021	.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: cri Acquired: 7/4/2014 0:42:22 Type: QC
Method: Accutest1(v213) 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	.2003	.0021	.0031	.0522	.0106	.0090	.0161	.0107	.0048
Stddev	.0009	.0000	.0001	.0001	.0002	.0001	.0000	.0002	.0002
%RSD	.4373	.9139	3.361	.2201	1.464	.6943	.2003	1.427	3.178
#1	.2009	.0021	.0031	.0521	.0105	.0090	.0161	.0106	.0047
#2	.1997	.0021	.0030	.0523	.0107	.0091	.0161	.0108	.0049

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	.0533	.0208	.0088	.0100	.0028	.0110	.0061	.2061	5.191
Stddev	.0003	.0001	.0003	.0012	.0002	.0001	.0003	.0008	.028
%RSD	.5412	.4546	3.856	11.84	5.897	1.218	4.760	.3787	.5316
#1	.0535	.0207	.0091	.0109	.0030	.0111	.0063	.2056	5.210
#2	.0531	.0209	.0086	.0092	.0027	.0109	.0059	.2067	5.171

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	.1084	5.128	5.003	5.027	.1002	.0207	.0472	.1990	.0097
Stddev	.0004	.028	.011	.021	.0001	.0000	.0004	.0004	.0004
%RSD	.3437	.5522	.2252	.4225	.0757	.0431	.8087	.2202	3.764
#1	.1086	5.149	5.011	5.042	.1001	.0207	.0469	.1987	.0094
#2	.1081	5.108	4.995	5.012	.1002	.0207	.0474	.1993	.0099

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: cri Acquired: 7/4/2014 0:42:22 Type: QC
Method: Accutest1(v213) 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	.0104	.0590	.0100	.0472	.0180	.0221
Stddev	.0000	.0000	.0007	.0000	.0008	.0000	.0002
%RSD	.3031	.0857	1.201	.2100	1.694	.1842	.7534
#1	.0107	.0104	.0595	.0100	.0477	.0181	.0220
#2	.0107	.0104	.0585	.0100	.0466	.0180	.0223

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	203510.	48426.	3154.1	8188.8
Stddev	85.	193.	1.3	5.3
%RSD	.04173	.39908	.04110	.06444

#1	203570.	48289.	3153.2	8185.0
#2	203450.	48562.	3155.1	8192.5

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Sample Name: crid Acquired: 7/4/2014 0:48:30 Type: QC
Method: Accutest1(v213) 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	.0010	.0010	.0031	.0021	F .0014	.0032	.0044
Stddev	.0000	.0000	.0002	.0001	.0000	.0001	.0000	.0000
%RSD	.8923	4.386	15.34	1.807	.4392	4.801	1.082	.3384
#1	.0040	.0009	.0011	.0030	.0021	.0013	.0032	.0044
#2	.0039	.0010	.0009	.0031	.0021	.0014	.0032	.0044

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	.0008	.0021	F .0130	W .0039	W .0024	.0025	W .0039	.0031
Stddev	.0000	.0000	.0001	.0000	.0009	.0006	.0002	.0006
%RSD	1.993	.3376	.9393	1.140	35.88	21.79	5.987	19.73

#1	.0008	.0021	.0129	.0038	.0018	.0029	.0037	.0036
#2	.0009	.0021	.0131	.0039	.0031	.0021	.0041	.0027

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Warn	Chk Warn	Chk Pass	Chk Warn	Chk Pass
Value			.0100	.0030	.0020		.0050	
Range			30.00%	20.00%	20.00%		-20.00%	

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1081	1.048	.0018	W .1214	1.942	1.000	.0101	.0001
Stddev	.0012	.026	.0010	.0104	.013	.019	.0000	.0000
%RSD	1.093	2.469	55.60	8.592	.6460	1.945	.4014	13.01

#1	.1073	1.030	.0011	.1140	1.933	.9863	.0101	.0001
#2	.1089	1.066	.0026	.1287	1.951	1.014	.0101	.0001

Check ?	Chk Pass	Chk Pass	None	Chk Warn	Chk Pass	Chk Pass	Chk Pass	None
Value				.1000				
Range				20.00%				

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Sample Name: crid Acquired: 7/4/2014 0:48:30 Type: QC
Method: Accutest1(v213) 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	-0.0004	.0000	.0001	.0000	.0001	.0040	F .0002	F .0008
Stddev	.0003	.0009	.0008	.0000	.0000	.0003	.0001	.0011
%RSD	83.11	5723.	629.1	91.05	30.89	7.882	49.47	141.6
#1	-.0001	.0006	-.0004	.0000	.0002	.0042	.0001	.0016
#2	-.0006	-.0006	.0007	.0000	.0001	.0037	.0003	.0000

Check ?	None	None	None	None	None	Chk Pass	Chk Fail	Chk Fail
Value							.0040	.0040
Range							-30.00%	-30.00%

Elem	Bi2230	Li6707
Units	ppm	ppm
Avg	F -0.0004	F .0014
Stddev	.0003	.0001
%RSD	75.56	5.382

#1	-.0002	.0014
#2	-.0006	.0015

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	204870.	48457.	3167.2	8222.0
Stddev	1147.	960.	17.7	42.7
%RSD	.56003	1.9817	.56002	.51981

#1	205680.	49136.	3179.8	8252.2
#2	204060.	47778.	3154.7	8191.8

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Sample Name: cria Acquired: 7/4/2014 0:54:41 Type: QC
Method: Accutest1(v213) 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	-0.0001	.0000	-0.0001	.0000	.0001	-0.0009	.0000	.0000	-0.0005
Stddev	.0000	.000	.0000	.000	.0003	.0002	.0000	.000	.0000
%RSD	26.72	102.2	69.67	21.54	238.9	19.12	11.13	2329.	8.500
#1	-.0001	.0000	.0000	.0000	-.0001	-.0011	.0000	-.0001	-.0005
#2	-.0001	.0000	-.0001	.0000	.0003	-.0008	.0000	.0001	-.0004

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	.0007	.0200	.0004	.0207	.0214	.0202	.4849	-0.0003
Stddev	.0001	.0000	.0005	.0008	.0007	.0021	.0001	.0021	.0007
%RSD	40.25	5.849	2.655	184.3	3.600	9.692	.2568	.4419	262.2

#1	.0001	.0007	.0204	-.0001	.0212	.0199	.0203	.4864	.0002
#2	.0002	.0006	.0197	.0010	.0202	.0229	.0202	.4833	-.0008

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	.5327	.0097	-0.0779	.0074	.0002	.0000	-0.0003	.0024	-0.0003
Stddev	.0003	.0092	.0282	.0013	.0002	.000	.0002	.0004	.0001
%RSD	.0513	94.50	36.18	17.10	107.1	690.0	63.96	14.80	28.84

#1	.5325	.0032	-.0580	.0083	.0000	.0001	-.0002	.0022	-.0003
#2	.5329	.0162	-.0978	.0065	.0003	-.0001	-.0004	.0027	-.0004

Check ?	Chk Pass	None	None	None	None	None	None	None	None
Value									
Range									

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Sample Name: cria Acquired: 7/4/2014 0:54:41 Type: QC
Method: Accutest1(v213) 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	.0031	.0002	.0018	-.0004	.0013
Stddev	.0000	.0002	.0004	.0001	.0005	.0004	.0002
%RSD	29.87	162.1	14.26	31.93	27.49	94.47	12.07
#1	.0000	.0000	.0034	.0001	.0022	-.0001	.0014
#2	.0000	.0002	.0028	.0002	.0015	-.0007	.0011
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	205930.	48340.	3174.1	8233.0			
Stddev	240.	47.	.8	4.4			
%RSD	.11656	.09642	.02504	.05334			
#1	206100.	48307.	3173.5	8236.1			
#2	205760.	48373.	3174.6	8229.9			

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Sample Name: icsa Acquired: 7/4/2014 1:00:54 Type: QC
Method: Accutest1(v213) 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	.0031	-.0013	-.0003	.0010	.0030	-.0019	.0013
Stddev	.0001	.000	.0002	.0001	.0002	.0003	.0001	.0001	.0012
%RSD	12.09	114.2	6.731	6.373	70.97	26.88	4.644	6.791	90.33
#1	-.0005	.0000	.0032	-.0014	-.0005	.0008	.0029	-.0020	.0005
#2	-.0004	-.0001	.0029	-.0012	-.0002	.0012	.0031	-.0018	.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	V_2924	Zn2062	As1890	Ti1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	-.0005	-.0029	.0039	-.0008	.0050	.0009	491.1	378.8
Stddev	.0001	.0002	.0006	.0001	.0020	.0012	.0010	3.6	2.8
%RSD	43.73	49.32	19.36	2.978	236.7	24.46	106.5	.7267	.7478
#1	.0002	-.0007	-.0025	.0038	.0006	.0041	.0016	493.6	380.8
#2	.0001	-.0003	-.0033	.0039	-.0023	.0059	.0002	488.6	376.8
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	184.6	511.3	-.0226	.0145	.0005	-.0025	-.0019	.0152	-.0010
Stddev	1.8	.3	.0098	.0013	.0019	.0000	.0001	.0004	.0009
%RSD	.9710	.0639	43.30	9.142	351.8	.8024	5.671	2.353	89.57
#1	183.4	511.1	-.0295	.0154	-.0008	-.0025	-.0019	.0154	-.0016
#2	185.9	511.6	-.0157	.0135	.0019	-.0025	-.0018	.0149	-.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: 7/4/2014 1:00:54 Type: QC
Method: Accutest1(v213) 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	-.0062	.0011	.0084	.0074	.0450	.0014	.0078
Stddev	.0001	.0004	.0004	.0001	.0023	.0009	.0002
%RSD	.9896	38.90	5.194	1.881	5.167	62.85	2.876
#1	-.0062	.0008	.0081	.0073	.0466	.0020	.0080
#2	-.0061	.0015	.0087	.0075	.0433	.0008	.0077
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	181570.	46772.	2842.9	7305.1			
Stddev	550.	22.	.3	.3			
%RSD	.30308	.04625	.01136	.00356			
#1	181190.	46788.	2843.1	7304.9			
#2	181960.	46757.	2842.7	7305.3			

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Sample Name: icsab Acquired: 7/4/2014 1:07:13 Type: QC
Method: Accutest1(v213) 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	.4682	.4830	.9982	.4757	.4780	.4906	.4854	.9478	.9886
Stddev	.0003	.0001	.0002	.0002	.0014	.0009	.0022	.0012	.0017
%RSD	.0711	.0263	.0172	.0317	.2844	.1888	.4575	.1258	.1717
#1	.4679	.4829	.9991	.4756	.4789	.4913	.4869	.9486	.9898
#2	.4684	.4831	.9993	.4758	.4770	.4900	.4838	.9470	.9874
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	.4688	.9647	.9783	.9582	.9400	.9875	.9968	492.1	373.5
Stddev	.0013	.0018	.0010	.0012	.0004	.0034	.0026	.0	1.0
%RSD	.2807	.1821	.1056	.1282	.0404	.3447	.2570	.0083	.2602
#1	.4678	.9659	.9790	.9574	.9402	.9899	.9986	492.1	374.2
#2	.4659	.9634	.9775	.9591	.9397	.9851	.9950	492.2	372.8
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	184.5	516.0	-.0277	.0174	-.0012	.4798	.5098	.0167	-.0017
Stddev	1.8	1.3	.0149	.0040	.0002	.0005	.0012	.0008	.0003
%RSD	.9622	.2436	53.91	23.17	18.81	.0974	.2415	4.887	14.75
#1	185.7	516.9	-.0171	.0202	-.0010	.4801	.5107	.0161	-.0015
#2	183.2	515.1	-.0382	.0145	-.0013	.4794	.5089	.0172	-.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: 7/4/2014 1:07:13 Type: QC
Method: Accutest1(v213) 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	-0.061	.0010	.4973	.4992	.5207	.4743	.4930
Stddev	.0000	.0000	.0009	.0005	.0017	.0003	.0002
%RSD	.3811	1.569	.1891	.0956	.3236	.0633	.0393
#1	-.0061	.0010	.4980	.4995	.5195	.4741	.4932
#2	-.0060	.0010	.4966	.4988	.5219	.4745	.4929

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	181440.	46519.	2835.2	7313.9
Stddev	513.	172.	1.1	.4
%RSD	.28296	.37053	.03725	.00514
#1	181080.	46397.	2834.4	7314.2
#2	181800.	46641.	2835.9	7313.7

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Sample Name: ccv Acquired: 7/4/2014 1:13:32 Type: QC
Method: Accutest1(v213) 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	1.946	2.024	1.990	2.026	2.027	1.935	2.032	2.029	2.424
Stddev	.001	.001	.002	.003	.001	.007	.001	.001	.0004
%RSD	.0523	.0595	.1140	.1277	.0452	.3691	.0316	.0389	.1462
#1	1.946	2.025	1.988	2.024	2.027	1.930	2.032	2.029	2426
#2	1.945	2.023	1.992	2.028	2.028	1.940	2.033	2.030	2421

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	1.985	2.056	1.944	2.021	2.027	1.971	1.954	39.27	41.00
Stddev	.001	.000	.001	.000	.001	.006	.003	.02	.11
%RSD	.0260	.0086	.0544	.0197	.0525	.3065	.1339	.0420	.2612
#1	1.985	2.056	1.945	2.021	2.026	1.967	1.952	39.26	40.92
#2	1.986	2.056	1.944	2.021	2.027	1.976	1.956	39.29	41.08

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	40.54	40.24	39.21	39.57	1.942	1.971	1.933	4.916	2.020
Stddev	.11	.17	.07	.04	.004	.002	.002	.005	.007
%RSD	.2810	.4225	.1772	.0988	.2180	.0809	.0863	.1037	.3502
#1	40.46	40.12	39.16	39.55	1.939	1.969	1.932	4.913	2.015
#2	40.62	40.36	39.26	39.60	1.945	1.972	1.934	4.920	2.025

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: 7/4/2014 1:13:32 Type: QC
Method: Accutest1(v213) 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	1.962	1.886	2.001	1.953	1.915	1.969
Stddev	.011	.001	.009	.002	.004	.003	.002
%RSD	.5391	.0522	.4507	.1047	.2016	.1439	.0855
#1	2.003	1.961	1.880	1.999	1.950	1.913	1.968
#2	1.987	1.962	1.892	2.002	1.955	1.917	1.970

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	196480.	47792.	3054.6	7946.8
Stddev	34.	307.	2.0	2.8
%RSD	.01743	.64146	.06665	.03573
#1	196460.	48009.	3056.0	7948.8
#2	196500.	47575.	3053.1	7944.8

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Sample Name: ccb Acquired: 7/4/2014 1:19:44 Type: QC
Method: Accutest1(v213) 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	.0004	.0003	.0003	.0003	.0006	-.0003	.0004	.0004
Stddev	.0000	.0000	.0001	.0003	.0001	.0000	.0000	.0000
%RSD	4.878	.0643	43.84	114.8	15.95	8.139	6.764	10.74
#1	.0004	.0003	.0004	.0001	.0006	-.0003	.0005	.0004
#2	.0004	.0003	.0002	.0005	.0005	-.0003	.0004	.0003

Check ? High Limit Low Limit
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	.0000	.0005	-.0003	.0009	.0013	-.0002	-.0009	.0004
Stddev	.0002	.0002	.0001	.0010	.0005	.0000	.0009	.0003
%RSD	668.1	30.05	27.21	110.8	38.44	4.937	109.1	74.51
#1	.0002	.0004	-.0004	.0016	.0010	-.0002	-.0015	.0002
#2	-.0001	.0007	-.0003	.0002	.0017	-.0002	-.0002	.0006

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	W .0269	.0239	.0157	.0298	-.0544	.0136	.0018	.0010
Stddev	.0022	.0002	.0006	.0070	.0020	.0050	.0001	.0001
%RSD	8.252	.7558	3.822	23.37	3.658	36.34	7.733	14.82
#1	.0254	.0241	.0162	.0249	-.0530	.0101	.0019	.0011
#2	.0285	.0238	.0153	.0347	-.0558	.0171	.0017	.0009

Check ? High Limit Low Limit
Chk Warn Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

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Sample Name: ccb Acquired: 7/4/2014 1:19:44 Type: QC
Method: Accutest1(v213) 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	.0010	-.0002	.0005	.0006	.0134	.0008	.0001
Stddev	.0001	.0010	.0000	.0000	.0000	.0011	.0000	.0006
%RSD	13.39	107.0	1.372	.8354	7.706	7.965	4.021	592.7
#1	.0005	.0017	-.0002	.0005	.0007	.0142	.0008	-.0003
#2	.0006	.0002	-.0002	.0005	.0006	.0127	.0008	.0006

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	-.0001	.0022
Stddev	.0004	.0002
%RSD	591.4	9.129

#1	.0002	.0020
#2	-.0003	.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	205830.	48315.	3177.2	8250.0
Stddev	284.	165.	2.0	5.8
%RSD	.13787	.34194	.06359	.06987

#1	206030.	48432.	3175.7	8245.9
#2	205630.	48198.	3178.6	8254.0

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	0.001199	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	0.017000	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	-0.001900	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	-0.000155	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
Ni 231.604 {446}	☒	19	Cr	-0.000100	0.000000	No
			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	-0.000479	0.000000	No
			V	-0.000040	0.000000	No
			Zn	-0.000080	0.000000	No
			Ca	-0.000010	0.000000	No
			Al	-0.000011	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	-0.003700	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	-0.000002	0.000000	No
			Ca	0.000000	0.000000	No
			Mn	0.000090	0.000000	No
			Mo	0.000040	0.000000	No
			Cr	0.000550	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	-0.004110	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	-0.008700	0.000000	No
			Al	-0.000004	0.000000	No
			Fe	-0.000073	0.000000	No

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
			V	-0.024000	0.000000	No
			Mn	0.001400	0.000000	No
			Ca	-0.000008	0.000000	No
			Ti	-0.001100	0.000000	No
			Mg	-0.000002	0.000000	No
			Co	0.003472	0.000000	No
			Sr	0.000972	0.000000	No
			B	0.000913	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	-0.000040	0.000000	No
Pb 220.353 (453)	☒	23	Na	0.000000	0.000000	No
			Al	-0.000113	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	-0.002150	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	0.000000	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	0.000006	0.000000	No
			Ca	-0.000006	0.000000	No
			Mn	0.000223	0.000000	No
			Mo	-0.000119	0.000000	No
			Fe	-0.000087	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	0.014520	0.000000	No
			V	-0.001830	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	0.041150	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	0.027685	0.000000	No
			V	-0.000190	0.000000	No
			Ti	0.006476	0.000000	No
			Al	0.000049	0.000000	No
			Cd	0.000800	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	0.000700	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}	☒	7	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
			Mg	0.000004	0.000000	No
Bi 223.061 {451}	☒	4	Ti	-0.005300	0.000000	No
			Fe	0.000035	0.000000	No
			Ti	-0.018190	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}	7/3/2014 17:46:47	7/3/2014 17:46:47	Linear	1/Conc	0.000597	1.493045	0.000000	1.000000
Be 313.042 {108}	7/3/2014 17:46:47	7/3/2014 17:46:47	Linear	1/Conc	-0.000439	2.685583	0.000000	1.000000
Cd 228.802 {448}	7/3/2014 17:46:47	7/3/2014 17:46:47	Linear	1/Conc	0.000669	1.236814	0.000000	1.000000
Co 228.616 {448}	7/3/2014 17:46:47	7/3/2014 17:46:47	Linear	1/Conc	-0.000187	0.513550	0.000000	1.000000
Cr 267.716 {126}	7/3/2014 17:46:47	7/3/2014 17:46:47	Linear	1/Conc	-0.000017	0.081338	0.000000	1.000000
Cu 324.754 {104}2	7/3/2014 17:46:47	7/3/2014 17:46:47	Linear	1/Conc	0.003851	0.229381	0.000000	1.000000
Mn 257.610 {131}	7/3/2014 17:46:47	7/3/2014 17:46:47	Linear	1/Conc	0.000026	0.475552	0.000000	1.000000
Ni 231.604 {446}	7/3/2014 17:46:47	7/3/2014 17:46:47	Linear	1/Conc	-0.000366	0.394244	0.000000	1.000000
Ag 328.068 {103}	7/3/2014 17:46:47	7/3/2014 17:46:47	Linear	1/Conc	-0.000126	0.128940	0.000000	1.000000
V 292.402 {115}	7/3/2014 17:46:47	7/3/2014 17:46:47	Linear	1/Conc	-0.000034	0.135658	0.000000	1.000000
Zn 206.200 {464}	7/3/2014 17:46:47	7/3/2014 17:46:47	Linear	1/Conc	0.000337	1.080891	0.000000	1.000000
As 189.042 {478}	7/3/2014 17:46:47	7/3/2014 17:46:47	Linear	1/Conc	-0.000701	0.187026	0.000000	1.000000
Tl 190.856 {477}	7/3/2014 17:46:47	7/3/2014 17:46:47	Linear	1/Conc	-0.000450	0.053958	0.000000	1.000000
Pb 220.353 {453}	7/3/2014 17:46:47	7/3/2014 17:46:47	Linear	1/Conc	-0.000414	0.170628	0.000000	1.000000
Se 196.090 {472}	7/3/2014 17:46:47	7/3/2014 17:46:47	Linear	1/Conc	0.000991	0.117876	0.000000	1.000000
Sb 206.833 {463}	7/3/2014 17:46:47	7/3/2014 17:46:47	Linear	1/Conc	0.000064	0.253754	0.000000	1.000000
Al 396.152 { 85}	7/3/2014 17:46:47	7/3/2014 17:46:47	Linear	1/Conc	-0.000012	0.023433	0.000000	1.000000
Ca 317.933 {106}	7/3/2014 17:46:47	7/3/2014 17:46:47	Linear	1/Conc	0.006069	0.072772	0.000000	1.000000
Fe 259.940 {130}	7/3/2014 17:46:47	7/3/2014 17:46:47	Linear	1/Conc	0.000044	0.047427	0.000000	1.000000
Mg 279.079 {121}	7/3/2014 17:46:47	7/3/2014 17:46:47	Linear	1/Conc	-0.000079	0.006848	0.000000	1.000000
K 766.490 { 44}	7/3/2014 17:46:47	7/3/2014 17:46:47	Linear	1/Conc	-0.002090	0.013489	0.000000	1.000000
Na 589.592 { 57}	7/3/2014 17:46:47	7/3/2014 17:46:47	Linear	1/Conc	-0.002911	0.047996	0.000000	1.000000
B 208.959 {462}	7/3/2014 17:46:47	7/3/2014 17:46:47	Linear	1/Conc	0.000153	0.265264	0.000000	1.000000
Mo 202.030 {467}	7/3/2014 17:46:47	7/3/2014 17:46:47	Linear	1/Conc	0.000509	1.070207	0.000000	1.000000
Pd 340.458 { 99}	7/3/2014 17:46:47	7/3/2014 17:46:47	Linear	1/Conc	-0.000139	0.056538	0.000000	1.000000
Si 212.412 {459}	7/3/2014 17:46:47	7/3/2014 17:46:47	Linear	1/Conc	0.003948	0.314425	0.000000	1.000000
Sn 189.989 {478}	7/3/2014 17:46:47	7/3/2014 17:46:47	Linear	1/Conc	0.000237	0.212024	0.000000	1.000000
Sr 407.771 { 83}	7/3/2014 17:46:47	7/3/2014 17:46:47	Linear	1/Conc	-0.000493	2.567124	0.000000	1.000000
Ti 334.904 {101}	7/3/2014 17:46:47	7/3/2014 17:46:47	Linear	1/Conc	-0.000106	0.144641	0.000000	1.000000
Y 360.073 { 94}*	6/17/2014 18:19:07	12/23/2009 10:44:16	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
Y 371.030 { 91}*	6/17/2014 18:19:12	12/23/2009 10:44:16	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
Y 224.306 {451}*	7/2/2014 11:08:50	12/23/2009 10:44:16	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
In 230.606 {446}*	6/17/2014 18:19:20	12/23/2009 10:44:16	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
W 207.911 {462}	7/3/2014 17:46:47	7/3/2014 17:46:47	Linear	1/Conc	0.001218	0.503222	0.000000	1.000000
Zr 339.198 { 99}	7/3/2014 17:46:47	7/3/2014 17:46:47	Linear	1/Conc	-0.000265	0.286133	0.000000	1.000000
S 182.034 {485}	7/3/2014 17:46:47	7/3/2014 17:46:47	Linear	1/Conc	-0.000597	0.107363	0.000000	1.000000
Bi 223.061 {451}	7/3/2014 17:46:47	7/3/2014 17:46:47	Linear	1/Conc	-0.000852	0.354293	0.000000	1.000000
Li 670.784 { 50}	7/3/2014 17:46:47	7/3/2014 17:46:47	Linear	1/Conc	-0.000290	0.361321	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	0.000140	0.000468	OK	1.000000	0.000000	1	0
Be 313.042 {108}	1.000000	0.000000	0.000037	0.000123	OK	1.000000	0.000000	1	0
Cd 228.802 {448}	1.000000	0.000000	0.000157	0.000525	OK	1.000000	0.000000	1	0
Co 228.616 {448}	1.000000	0.000000	0.000233	0.000775	OK	1.000000	0.000000	1	0
Cr 267.716 {126}	1.000000	0.000000	0.000303	0.001011	OK	1.000000	0.000000	1	0
Cu 324.754 {104}2	1.000000	0.000000	0.000269	0.000896	OK	1.000000	0.000000	1	0
Mn 257.610 {131}	1.000000	0.000000	0.000046	0.000152	OK	1.000000	0.000000	1	0
Ni 231.604 {446}	1.000000	0.000000	0.000274	0.000913	OK	1.000000	0.000000	1	0
Ag 328.068 {103}	1.000000	0.000000	0.000401	0.001335	OK	1.000000	0.000000	1	0
V 292.402 {115}	1.000000	0.000000	0.000243	0.000809	OK	1.000000	0.000000	1	0
Zn 206.200 {464}	1.000000	0.000000	0.000151	0.000505	OK	1.000000	0.000000	1	0
As 189.042 {478}	1.000000	0.000000	0.000784	0.002613	OK	1.000000	0.000000	1	0
Tl 190.856 {477}	1.000000	0.000000	0.001129	0.003763	OK	1.000000	0.000000	1	0
Pb 220.353 {453}	1.000000	0.000000	0.000913	0.003045	OK	1.000000	0.000000	1	0
Se 196.090 {472}	1.000000	0.000000	0.001548	0.005158	OK	1.000000	0.000000	1	0
Sb 206.833 {463}	1.000000	0.000000	0.000912	0.003040	OK	1.000000	0.000000	1	0
Al 396.152 { 85}	1.000000	0.000000	0.007042	0.023473	OK	1.000000	0.000000	1	0
Ca 317.933 {106}	1.000000	0.000000	0.001512	0.005039	OK	1.000000	0.000000	1	0
Fe 259.940 {130}	1.000000	0.000000	0.001180	0.003934	OK	1.000000	0.000000	1	0
Mg 279.079 {121}	1.000000	0.000000	0.010582	0.035273	OK	1.000000	0.000000	1	0
K 766.490 { 44}	1.000000	0.000000	0.025399	0.084663	OK	1.000000	0.000000	1	0
Na 589.592 { 57}	1.000000	0.000000	0.006683	0.022277	OK	1.000000	0.000000	1	0
B 208.959 {462}	1.000000	0.000000	0.000551	0.001835	OK	1.000000	0.000000	1	0
Mo 202.030 {467}	1.000000	0.000000	0.000187	0.000624	OK	1.000000	0.000000	1	0
Pd 340.458 { 99}	1.000000	0.000000	0.000840	0.002799	OK	1.000000	0.000000	1	0
Si 212.412 {459}	1.000000	0.000000	0.000723	0.002411	OK	1.000000	0.000000	1	0
Sn 189.989 {478}	1.000000	0.000000	0.000606	0.002020	OK	1.000000	0.000000	1	0
Sr 407.771 { 83}	1.000000	0.000000	0.000057	0.000190	OK	1.000000	0.000000	1	0
Ti 334.904 {101}	1.000000	0.000000	0.000328	0.001093	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	0.000801	0.002669	OK	1.000000	0.000000	1	0
Zr 339.198 { 99}	1.000000	0.000000	0.000155	0.000516	OK	1.000000	0.000000	1	0
S 182.034 {485}	1.000000	0.000000	0.001511	0.005035	OK	1.000000	0.000000	1	0
Bi 223.061 {451}	1.000000	0.000000	0.000903	0.003010	OK	1.000000	0.000000	1	0
Li 670.784 { 50}	1.000000	0.000000	0.000906	0.003019	OK	1.000000	0.000000	1	0

MA34395

Method: ACCUTEST

Operator: Admin

Date of Analysis: 07 Jul 2014 12:28:04

Sample ID	Date	Type	Units	Conc.	μ Abs.	Wt.	Vol.
STDA - 1	07 Jul 2014 12:29:25	Std	ug/l	-	-47	1.000	1.000
STDB - 1	07 Jul 2014 12:30:42	Std	ug/l	-	626	1.000	1.000
STDC - 1	07 Jul 2014 12:32:00	Std	ug/l	-	1499	1.000	1.000
STDD - 1	07 Jul 2014 12:33:20	Std	ug/l	-	2877	1.000	1.000
STDE - 1	07 Jul 2014 12:34:42	Std	ug/l	-	7704	1.000	1.000
STDF - 1	07 Jul 2014 12:36:09	Std	ug/l	-	15698	1.000	1.000
ICV - 1	07 Jul 2014 12:42:48	SMPL	ug/l	2.8184	8772	1.000	1.000
ICB - 1	07 Jul 2014 12:44:04	SMPL	ug/l	-0.0399	-227	1.000	1.000
CCV - 1	07 Jul 2014 12:45:40	CK STND	ug/l	102.2%	2.5550	7943	1.000
CCB - 1	07 Jul 2014 12:46:56	CK STND	ug/l	-0.0453	-244	1.000	1.000
CRI - 1	07 Jul 2014 12:48:30	SMPL	ug/l	0.2330	632	1.000	1.000
LOQCONF - 1	07 Jul 2014 13:07:38	SMPL	ug/l	0.2504	687	1.000	1.000
LODCONF - 1	07 Jul 2014 13:08:54	SMPL	ug/l	0.1590	399	1.000	1.000
MP80490-MB1 - 1	07 Jul 2014 13:10:13	SMPL	ug/l	0.0723	126	1.000	1.000
MP80490-B1 - 1	07 Jul 2014 13:11:32	SMPL	ug/l	1.9573	6061	1.000	1.000
MP80490-S1 - 1	07 Jul 2014 13:12:51	SMPL	ug/l	2.2863	7097	1.000	1.000
MP80490-S2 - 1	07 Jul 2014 13:14:23	SMPL	ug/l	2.2050	6841	1.000	1.000
JB69993-1A - 1	07 Jul 2014 13:15:56	SMPL	ug/l	0.0113	-66	1.000	1.000
JB70665-1A - 1	07 Jul 2014 13:17:27	SMPL	ug/l	-0.0202	-165	1.000	1.000
CCV - 1	07 Jul 2014 13:18:47	CK STND	ug/l	97.1%	2.4280	7543	1.000
CCB - 1	07 Jul 2014 13:20:05	CK STND	ug/l	-0.0389	-224	1.000	1.000
JB70772-1 - 1	07 Jul 2014 13:21:39	SMPL	ug/l	0.2590	714	1.000	1.000
JB70772-2 - 1	07 Jul 2014 13:22:56	SMPL	ug/l	-0.1212	-483	1.000	1.000
JB70740-1B - 1	07 Jul 2014 13:24:31	SMPL	ug/l	0.0507	58	1.000	1.000
JB70740-3B - 1	07 Jul 2014 13:25:49	SMPL	ug/l	0.0081	-76	1.000	1.000
JB70740-5B - 1	07 Jul 2014 13:27:05	SMPL	ug/l	0.0233	-28	1.000	1.000
JB70740-7B - 1	07 Jul 2014 13:28:24	SMPL	ug/l	0.0265	-18	1.000	1.000
MP80491-MB1 - 1	07 Jul 2014 13:29:40	SMPL	ug/l	-0.0154	-150	1.000	1.000
MP80491-B1 - 1	07 Jul 2014 13:30:59	SMPL	ug/l	2.0234	6269	1.000	1.000
CCV - 1	07 Jul 2014 13:32:16	CK STND	ug/l	97.0%	2.4251	7534	1.000
CCB - 1	07 Jul 2014 13:33:47	CK STND	ug/l	-0.0443	-241	1.000	1.000
MP80491-S1 - 1	07 Jul 2014 13:35:21	SMPL	ug/l	1.4323	4408	1.000	1.000
MP80491-S2 - 1	07 Jul 2014 13:36:38	SMPL	ug/l	1.3757	4230	1.000	1.000
JB70629-1 - 1	07 Jul 2014 13:38:14	SMPL	ug/l	-0.0516	-264	1.000	1.000
MP80492-MB1 - 1	07 Jul 2014 13:39:52	SMPL	ug/l	0.0611	91	1.000	1.000
MP80492-B1 - 1	07 Jul 2014 13:41:29	SMPL	ug/l	1.8788	5814	1.000	1.000
MP80492-S1 - 1	07 Jul 2014 13:42:47	SMPL	ug/l	1.5771	4864	1.000	1.000
MP80492-S2 - 1	07 Jul 2014 13:44:20	SMPL	ug/l	2.1663	6719	1.000	1.000
JB70796-1A - 1	07 Jul 2014 13:45:52	SMPL	ug/l	0.0284	-12	1.000	1.000
JB70796-2A - 1	07 Jul 2014 13:47:24	SMPL	ug/l	0.0761	138	1.000	1.000
JB70796-3A - 1	07 Jul 2014 13:48:42	SMPL	ug/l	0.0608	90	1.000	1.000
CCV - 1	07 Jul 2014 13:50:02	CK STND	ug/l	97.6%	2.4410	7584	1.000
CCB - 1	07 Jul 2014 13:51:20	CK STND	ug/l	-0.0275	-188	1.000	1.000
JB70796-4A - 1	07 Jul 2014 13:52:55	SMPL	ug/l	0.0900	182	1.000	1.000
MP80493-MB1 - 1	07 Jul 2014 13:54:11	SMPL	ug/l	0.0176	-46	1.000	1.000
MP80493-B1 - 1	07 Jul 2014 13:55:30	SMPL	ug/l	1.8998	5880	1.000	1.000
MP80493-S1 - 1	07 Jul 2014 13:56:46	SMPL	ug/l	2.0748	6431	1.000	1.000
MP80493-S2 - 1	07 Jul 2014 13:58:18	SMPL	ug/l	1.8058	5584	1.000	1.000
JB70799-1 - 1	07 Jul 2014 13:59:51	SMPL	ug/l	-0.0059	-120	1.000	1.000
JB70629-2 - 1	07 Jul 2014 14:01:22	SMPL	ug/l	0.0097	-71	1.000	1.000
JB70655-1 - 1	07 Jul 2014 14:02:41	SMPL	ug/l	0.6878	2064	1.000	1.000
JB70655-3 - 1	07 Jul 2014 14:03:59	SMPL	ug/l	0.2396	653	1.000	1.000
CCV - 1	07 Jul 2014 14:05:50	CK STND	ug/l	92.9%	2.3222	7210	1.000
CCB - 1	07 Jul 2014 14:07:35	CK STND	ug/l	-0.0430	-237	1.000	1.000
JB70655-5 - 1	07 Jul 2014 14:09:10	SMPL	ug/l	0.7751	2339	1.000	1.000
JB70655-7 - 1	07 Jul 2014 14:10:27	SMPL	ug/l	-0.4883	-1639	1.000	1.000
JB70655-9 - 1	07 Jul 2014 14:11:49	SMPL	ug/l	1.0635	3247	1.000	1.000
JB70655-11 - 1	07 Jul 2014 14:13:53	SMPL	ug/l	0.7316	2202	1.000	1.000
JB70655-13 - 1	07 Jul 2014 14:15:59	SMPL	ug/l	0.6741	2021	1.000	1.000
JB70655-15 - 1	07 Jul 2014 14:18:00	SMPL	ug/l	-0.5970	-1981	1.000	1.000
JB70602-1A - 1	07 Jul 2014 14:19:20	SMPL	ug/l	-0.1783	-663	1.000	1.000
RINSECONF - 1	07 Jul 2014 14:21:22	SMPL	ug/l	-0.0453	-244	1.000	1.000
CRI - 1	07 Jul 2014 14:36:45	SMPL	ug/l	0.2457	672	1.000	1.000
CCV - 1	07 Jul 2014 14:39:03	CK STND	ug/l	95.7%	2.3927	7432	1.000
CCB - 1	07 Jul 2014 14:40:18	CK STND	ug/l	-0.0141	-146	1.000	1.000
JB70655-7 - 1	07 Jul 2014 14:41:53	SMPL	ug/l	0.7500	2260	1.000	1.000
JB70655-15 - 1	07 Jul 2014 14:43:11	SMPL	ug/l	0.6662	1996	1.000	1.000
JB70602-1A - 1	07 Jul 2014 14:45:10	SMPL	ug/l	-0.0910	-388	1.000	1.000
MP80506-MB1 - 1	07 Jul 2014 14:56:02	SMPL	ug/l	0.0923	189	1.000	1.000

MA34395

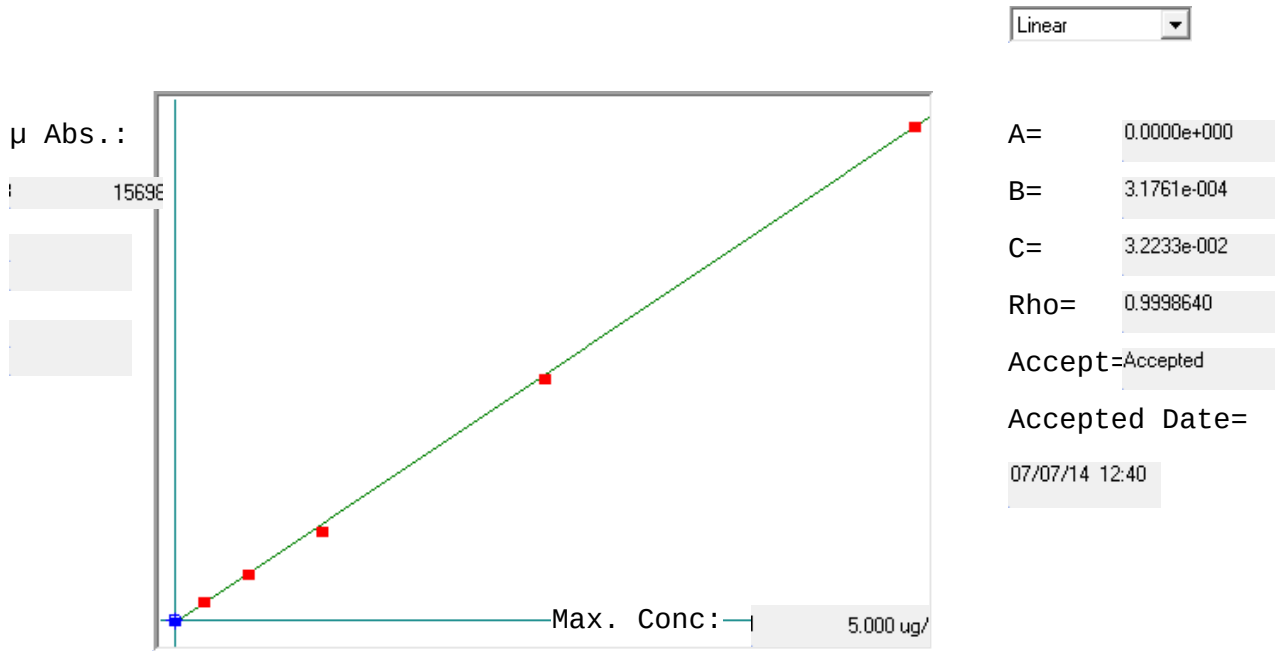
Method: ACCUTEST

Operator: Admin

Date of Analysis: 07 Jul 2014 12:28:04

Sample ID	Date	Type	Units	Conc.	μ Abs.	Wt.	Vol.
MP80506-B1 - 1	07 Jul 2014 14:57:19	SMPL	ug/l	1.9433	6017	1.000	1.000
JB70492-15A - 1	07 Jul 2014 14:58:38	SMPL	ug/l	0.0157	-52	1.000	1.000
MP80496-MB1 - 1	07 Jul 2014 15:00:10	SMPL	ug/l	0.0694	117	1.000	1.000
MP80496-B1 - 1	07 Jul 2014 15:01:30	SMPL	ug/l	1.9541	6051	1.000	1.000
CCV - 1	07 Jul 2014 15:02:49	CK STND	ug/l	93.4% 2.3359	7253	1.000	1.000
CCB - 1	07 Jul 2014 15:04:20	CK STND	ug/l	-0.0211	-168	1.000	1.000
MP80496-S1 - 1	07 Jul 2014 15:05:55	SMPL	ug/l	2.0700	6416	1.000	1.000
MP80496-S2 - 1	07 Jul 2014 15:07:13	SMPL	ug/l	2.1717	6736	1.000	1.000
JB70706-1A - 1	07 Jul 2014 15:08:44	SMPL	ug/l	-0.0046	-116	1.000	1.000
JB70706-9A - 1	07 Jul 2014 15:10:16	SMPL	ug/l	0.0138	-58	1.000	1.000
JB70706-17A - 1	07 Jul 2014 15:11:35	SMPL	ug/l	0.0224	-31	1.000	1.000
JB70722-1A - 1	07 Jul 2014 15:12:53	SMPL	ug/l	0.0294	-9	1.000	1.000
JB70725-1A - 1	07 Jul 2014 15:14:11	SMPL	ug/l	0.0326	1	1.000	1.000
JB70647-1AB - 1	07 Jul 2014 15:15:28	SMPL	ug/l	0.0348	8	1.000	1.000
MP80500-MB1 - 1	07 Jul 2014 15:16:46	SMPL	ug/l	0.0322	0	1.000	1.000
CCV - 1	07 Jul 2014 15:18:04	CK STND	ug/l	96.4% 2.4109	7489	1.000	1.000
CCB - 1	07 Jul 2014 15:19:20	CK STND	ug/l	-0.0037	-113	1.000	1.000
MP80500-B1 - 1	07 Jul 2014 15:20:56	SMPL	ug/l	1.6978	5244	1.000	1.000
MP80500-S1 - 1	07 Jul 2014 15:22:14	SMPL	ug/l	2.1730	6740	1.000	1.000
MP80500-S2 - 1	07 Jul 2014 15:23:46	SMPL	ug/l	2.0462	6341	1.000	1.000
JB70647-2AB - 1	07 Jul 2014 15:25:18	SMPL	ug/l	-0.0062	-121	1.000	1.000
MP80495-MB1 - 1	07 Jul 2014 15:30:19	SMPL	ug/l	0.0510	59	1.000	1.000
MP80495-LC1 - 1	07 Jul 2014 15:31:36	SMPL	ug/l	2.0040	6208	1.000	1.000
MP80495-S1 - 1	07 Jul 2014 15:32:53	SMPL	ug/l	1.8223	5636	1.000	1.000
MP80495-S2 - 1	07 Jul 2014 15:35:02	SMPL	ug/l	1.8731	5796	1.000	1.000
JB70198-2 - 1	07 Jul 2014 15:36:21	SMPL	ug/l	0.1418	345	1.000	1.000
JB70822-2 - 1	07 Jul 2014 15:37:58	SMPL	ug/l	-0.0164	-153	1.000	1.000
CCV - 1	07 Jul 2014 15:39:18	CK STND	ug/l	98.3% 2.4563	7632	1.000	1.000
CCB - 1	07 Jul 2014 15:40:34	CK STND	ug/l	-0.0205	-166	1.000	1.000
JB70822-3 - 1	07 Jul 2014 15:42:09	SMPL	ug/l	0.0233	-28	1.000	1.000
JB70822-4 - 1	07 Jul 2014 15:43:26	SMPL	ug/l	0.0275	-15	1.000	1.000
JB70947-2 - 1	07 Jul 2014 15:44:43	SMPL	ug/l	0.0300	-7	1.000	1.000
JB70832-1A - 1	07 Jul 2014 15:46:01	SMPL	ug/l	0.3880	1120	1.000	1.000
JB70931-1 - 1	07 Jul 2014 15:47:18	SMPL	ug/l	-0.0129	-142	1.000	1.000
JB71008-1Q - 1	07 Jul 2014 15:48:38	SMPL	ug/l	0.0424	32	1.000	1.000
JB70457-7 - 1	07 Jul 2014 15:49:56	SMPL	ug/l	0.0519	62	1.000	1.000
JB70457-7F - 1	07 Jul 2014 15:51:13	SMPL	ug/l	0.0494	54	1.000	1.000
JB70517-3 - 1	07 Jul 2014 15:52:30	SMPL	ug/l	0.0503	57	1.000	1.000
JB70517-4 - 1	07 Jul 2014 15:53:47	SMPL	ug/l	0.0449	40	1.000	1.000
CCV - 1	07 Jul 2014 15:55:05	CK STND	ug/l	97.7% 2.4417	7586	1.000	1.000
CCB - 1	07 Jul 2014 15:56:21	CK STND	ug/l	-0.0202	-165	1.000	1.000
JB70524-1 - 1	07 Jul 2014 15:57:56	SMPL	ug/l	0.0395	23	1.000	1.000
JB70524-2 - 1	07 Jul 2014 15:59:14	SMPL	ug/l	0.0437	36	1.000	1.000
MP80495-S3 - 1	07 Jul 2014 16:00:32	SMPL	ug/l	2.0208	6261	1.000	1.000
MP80495-S4 - 1	07 Jul 2014 16:01:49	SMPL	ug/l	1.9865	6153	1.000	1.000
JB70508-2F - 1	07 Jul 2014 16:03:22	SMPL	ug/l	-0.0208	-167	1.000	1.000
JB70508-1F - 1	07 Jul 2014 16:04:55	SMPL	ug/l	0.0119	-64	1.000	1.000
JB70508-3F - 1	07 Jul 2014 16:06:12	SMPL	ug/l	0.0252	-22	1.000	1.000
JB70508-4F - 1	07 Jul 2014 16:07:29	SMPL	ug/l	0.0284	-12	1.000	1.000
JB70508-5F - 1	07 Jul 2014 16:08:46	SMPL	ug/l	0.0383	19	1.000	1.000
JB70508-6F - 1	07 Jul 2014 16:10:03	SMPL	ug/l	0.0357	11	1.000	1.000
CCV - 1	07 Jul 2014 16:11:20	CK STND	ug/l	96.6% 2.4162	7506	1.000	1.000
CCB - 1	07 Jul 2014 16:12:36	CK STND	ug/l	-0.0106	-135	1.000	1.000
MP80494-MB1 - 1	07 Jul 2014 16:14:12	SMPL	ug/l	0.0373	16	1.000	1.000
MP80494-LC1 - 1	07 Jul 2014 16:15:30	SMPL	ug/l	1.8830	5827	1.000	1.000
MP80494-S1 - 1	07 Jul 2014 16:16:47	SMPL	ug/l	1.9344	5989	1.000	1.000
MP80494-S2 - 1	07 Jul 2014 16:18:23	SMPL	ug/l	1.9964	6184	1.000	1.000
JB70422-1 - 1	07 Jul 2014 16:19:56	SMPL	ug/l	-0.0265	-185	1.000	1.000
JB70837-1 - 1	07 Jul 2014 16:21:29	SMPL	ug/l	0.0106	-68	1.000	1.000
JB70915-1 - 1	07 Jul 2014 16:22:47	SMPL	ug/l	0.0322	0	1.000	1.000
MP80495-PS1 - 1	07 Jul 2014 16:24:04	SMPL	ug/l	1.7810	5506	1.000	1.000
RINSECONF - 1	07 Jul 2014 16:25:22	SMPL	ug/l	-0.0284	-191	1.000	1.000
CCV - 1	07 Jul 2014 16:27:00	CK STND	ug/l	97.5% 2.4372	7572	1.000	1.000
CCB - 1	07 Jul 2014 16:28:16	CK STND	ug/l	-0.0259	-183	1.000	1.000
CRI - 1	07 Jul 2014 16:35:59	SMPL	ug/l	0.2346	637	1.000	1.000
MP80505-FMBCONF - 1	07 Jul 2014 16:37:16	SMPL	ug/l	0.0456	42	1.000	1.000
MP80505-FLCCCONF - 1	07 Jul 2014 16:38:36	SMPL	ug/l	1.8855	5835	1.000	1.000
CCV - 1	07 Jul 2014 16:48:34	CK STND	ug/l	97.2% 2.4302	7550	1.000	1.000
CCB - 1	07 Jul 2014 16:49:50	CK STND	ug/l	-0.0218	-170	1.000	1.000

ACCUTEST



Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
STDA	0.000	0.017	0.017	-47	0.000	-47				
STDB	0.200	0.231	0.031	626	0.0 %	626				
STDC	0.500	0.508	0.008	1499	0.0 %	1499				
STDD	1.000	0.946	-0.054	2877	0.0 %	2877				
STDE	2.500	2.479	-0.021	7704	0.0 %	7704				
STDF	5.000	5.018	0.018	15698	0.0 %	15698				



Mercury Digestion Log

 Product: HG / HGCLP / HGLIQ
 Matrix: Soil

 MA Batch #: MA34366
 Analyst: DARSHAP
 Date: 7/2/2014
 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#: Hot Block: Start Time: 10:45 Temp: 95±0-95 End Time: 11:15 Temp: 95±0-95 Tubes 4-27
 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		Spikelot 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	MP80436-MB1	0.6000					MP80436	
5	MP80436-LC1	0.1010						
6	MP80436-S1	0.6451		2.0ml	Y	0.1		JB70517-1
7	MP80436-S2	0.6241		2.0ml	Y	0.1		JB70517-1
8	JB70517-1	0.6359						
9	JB70517-2	0.6194						
10	JB70646-1	0.6016						
11	JB70551-1	0.6350						
12	JB70647-1A	0.6411						
	CCV			2.5 ml	Y	0.1		
	CCB							
13	JB70647-2A	0.6130						
14	JB70648-1A	0.6592						
15	JB70648-2A	0.6561						
16	JB70648-3A	0.6624						
17	JB70169-1	0.6671						
18	JB70169-3	0.6509						
19	JB70169-5	0.6427						
20	JB70602-1	0.6208						
21	JB70231-1	0.6174						
22	JB70306-1	0.6304						
	CCV			2.5 ml	Y	0.1		
	CCB							
23	JB70366-7	0.6180						
24	JB70324-1A	0.6092						
25	JB70324-2A	0.6371						
26	JB70324-3A	0.6102						
27	JB70426-1	10.1093						
28	MP80437-MB1	0.6000					MP80437	
29	MP80437-LC1	0.1008						
30	MP80437-S1	0.6311		2.0ml	Y	0.1		JB69705-3R
31	MP80437-S2	0.6237		2.0ml	Y	0.1		JB69705-3R
32	JB69705-3R	0.6144						
	CCV			2.5 ml	Y	0.1		
	CCB							

 Form: GN-022F
 Revision Date: 06/09/08

 ANALYST: hark
 QC REVIEWER: _____

 DATE: 7/2/14
 DATE: _____



Mercury Digestion Log

 Product: HG / HGCLP / HGLIQ
 Matrix: Soil

 MA Batch #: MA34366
 Analyst: DARSHAP
 Date: 7/2/2014
 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#: Hot Block: Start Time: 11:30 Temp: 95°C End Time: 12:00 Temp: 95°C Tubes 28.66
 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		Spikelot and Conc (mg/L)	MP Number	Comments
				Amount Spiked	Added-Y or N			
33	JB70394-1	0.6517	1.60					
34	JB70394-2	0.6052						
35	JB70457-1	0.6127						
36	JB70457-2	0.6672						
37	JB70457-3	0.6161						
38	JB70457-4	0.6330						
39	JB70457-5	0.6387						
40	JB70457-6	0.6578						
41	JB70491-1	0.6381						
42	JB70491-2	0.6237						
	CCV			2.5 ml	Y	0.1		
	CCB							
43	JB70550-1	0.6352						
44	JB70528-1A	0.6130						
45	JB70584-1	0.6778						
46	JB70585-1	0.6043						
47	JB70605-7	0.6259						
48	JB70605-8	0.6378						
49	JB70644-1	0.6025						
50	JB70644-2	0.6367						
51	JB70644-3	0.6323						
52	MP80438-MB1	0.6000					MP80438	
	CCV			2.5 ml	Y	0.1		
	CCB							
53	MP80438-LC1	0.1007						
54	MP80438-S1	0.6519		2.0ml	Y	0.1		JB70644-10
55	MP80438-S2	0.6320		2.0ml	Y	0.1		JB70644-10
56	JB70644-10	0.6402						
57	JB70644-4	0.6701						
58	JB70644-5	0.6891						
59	JB70644-6	0.6477						
60	JB70644-7	0.6397						
61	JB70644-8	0.6022						
62	JB70644-9	0.6419						
	CCV			2.5 ml	Y	0.1		
	CCB							
63	JB70644-11	0.6757						
64	JB70644-12	0.6721						
65	JB70644-13	0.6132						
66	JB70661-1	0.6158						

 Form: GN-022F
 Revision Date: 06/09/08

 ANALYST: Devin
 QC REVIEWER: _____

 DATE: 7/2/14
 DATE: _____



Mercury Digestion Log

Product: **HG / HGCLP / HGLIQ**
Matrix: **Soil**

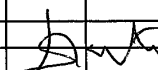
MA Batch #:	MA34366
Analyst:	DARSHAP
Date:	7/2/2014
Balance ID:	24
Reagents:	See attached sheet
Thermometer ID:	420

Methods (Circle as appropriate)

SW846 7471B

EPA 245.5 CLP-M

Type of Digestion: Hot:Block#: Hot:Block: Start Time: 15:00 Temp: 75 End Time: 15:30 Temp: 75 Tubes 67-74
Hot:Block#: Hot:Block: Start Time: Temp: End Time: Temp: Tubes

Bot #	Sample ID	Initial Sample Wt. in g	Final Samp Vol ml	Spike Used		Spikelot and Conc (mg/L)	MP Number	Comments
				Amount Spiked	Added- Y or N			
67	JB70656-1	0.6265						
68	JB70656-2	0.6239						
69	JB70728-1	0.6260						
70	JB70706-1	0.6195						
71	JB70706-9	0.6711						
72	JB70706-17	0.6415						
	CCV			2.5 ml	Y	0.1		
	CCB							
73	JB70722-1	0.6329						
74	JB70725-1	0.6460						
75								
76								
77								
78								
79								
80								
81								
82								
	CCV			2.5 ml		0.1		
	CCB							
83								
84								
85								
86								
87								
88								
89								
90								
91								
92								
	CCV			2.5 ml		0.1		
	CCB							
93								
94								
95								
96								
97								
98								
99								
100								
101								
102								
	CCV			2.5 ml		0.1		
	CCB							
103								
104								
105								
106								
107	Form: GN-022F			ANALYST:			DATE:	7/2/14
108	Revision Date: 06/09/08			QC REVIEWER:			DATE:	



Mercury Digestion Log

Product: HG / HGCLP / HGLIQ
Matrix: Soil

MA Batch #:

Analyst:

Date:

Balance ID:

Reagents:

Thermometer ID:

See attached sheet

420

Methods (Circle as appropriate)

SW846 7471B

EPA 245.5 CLP-M

Type of Digestion: Hot Block#:

Hot:Block: Start Time: 10:45 Temp:

End Time: 1115

T Temp: Tubes

Hot Block#:

Hot:Block: Start Time: Temp:

End Time:

T Temp: Tubes

[illegible]**Analyst:**

QC Reviewer:

Date:

Date:

Form: GN-022E

Rev. Date: 06/09/08

**ACCUTEST.****Reagent Information Log- Hg Soil**MA # 34366

Reagents	Exp. Date	Reagent # or manufacturer lot #
Conc. Sulfuric Acid	<u>6/16</u>	<u>Fisher 141489</u>
Conc. Nitric Acid	<u>6/16</u>	<u>Baker 0000034185</u>
Sodium Chloride-Hydroxylamine Hydrochloride	<u>12/20/14</u>	<u>HG-1492-112 --HGACL</u>
Potassium Permanganate	<u>12/20/14</u>	<u>HG-1492-110 --HGKM2</u>
Stannous Chloride	<u>7/3/14</u>	<u>HG-1492-145 --HGS</u>
STD Hg standard solution 1000 ppm	<u>1/31/16</u>	<u>U-Hg - J01211</u>
STD Hg standard solution 100 ppb	<u>7/3/14</u>	<u>HG-1492-143 --HGA1</u>
STD Hg standard solution 10 ppb	<u>7/3/14</u>	<u>HG-1492-144 --HGA2</u>
ICV Hg standard solution 1000 ppm	<u>2/1/15</u>	<u>In. Org. Venture - 24902105</u>
ICV Hg standard solution 50 ppb	<u>7/3/14</u>	<u>HG-1492-144 --HGB1</u>
Solid Lab control	<u>11/14/16</u>	<u>ERA-D0-82-540</u>
Aqua Regia	<u>7/3/14</u>	<u>HG-1492-146 --HGKAQ</u>
Dilution acid	<u>12/15</u>	<u>HG-1492-147 --HGD1</u>
Digestion Tubes Lot	<u>N/A</u>	<u>Env. Express 1404095</u>
Teflon Chips	<u>N/A</u>	<u>Skim gobain, F21826022</u>
Form: GN087A80-03		
Rev. Date: 10/15/12		

11.7.1
11



Mercury Digestion Log

Product HG / EHG
Matrix: Aq / Lq / DW
 MA Batch: MA34395
 Analyst: DP
 Date: 7/7/14
 Balance: N/A
 Reagents: See attached sheet
 Thermometer ID: 425

Methods (Circle as appropriate)

EPA 245.1

SW846 7470A

Type of Digestion:

 Hot Block
 ID 8
 Hot Block
 ID

 Start Time: 9:00 Temp: 94.1/95 End time: 11:30 Temp: 94.1/95 Tubes: 4-43
 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	N	20	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	MA34395								
5	-B1				2.0 ml	Y	0.03		
6	-S1								
7	-S2								
8	JB69993-1A								JB69993-1A
9	JB70665-1A								
10	JB70772-1								
11	-2								
12	JB70740-1B								
	CCV				2.5 ML		0.03		0.03 ppm Hg std.
	CCB								
13	JB70740-3B								
14	-5B								
15	-7B								
16	MA34395	N							
17	-B1				2.0 ml	Y	0.03		
18	-S1		5						
19	-S2		5						
20	JB70629-1		5						JB70629-1
21	MA34395		30						Smelly, cloudy
22	-B1				2.0 ml	Y	0.03		
	CCV				2.5 ML		0.03		0.03 ppm Hg std.
	CCB								
23	MP80492-51				2.0 ml	Y	0.03		
24	-52								
25	JB70796-1A								JB70796-1A
26	-2A								
27	-3A								
28	-4A								
29	MA34395								
30	-B1				2.0 ml	Y	0.03		
31	-S1								
32	-S2								
	CCV				2.5 ML		0.03		0.03 ppm Hg std.
	CCB								

Form GN022A-02
Revision Date: 03/25/13ANALYST: Salv
QC REVIEWER: PhilDATE: 7/7/14
DATE: 7/7/14



Mercury Digestion Log

 Product HG / EHG
 Matrix: Aq / Lq / DW

 MA Batch MA34395
 Analyst: DP
 Date: 7/7/14
 Balance: N/A
 Reagents: See attached sheet
 Thermometer ID: 425

Methods (Circle as appropriate)

EPA 245.1

SW846 7470A

Type of Digestion:

 Hot Block
 ID 8
 Hot Block
 ID

 Start Time: 9:00 Temp: 94.1 End time: 11:30 Temp: 94.1 Tubes: 4-43
 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	N	3.0	3.0	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	ICV								
5	1 - B1				2.0 ml	Y	0.03		
6	1 - S1								
7	1 - S2								
8	JB 69993-1A								JB 69993-1A
9	JB 70665-1A								
10	JB 70772-1								
11	2								
12	JB 70740-1B								
	CCV				2.5 ML		0.03		0.03 ppm Hg std.
	CCB								
13	JB 70740-3B								
14	1 - 5B								
15	1 - 2B								
16	JB 70740-1A	N							
17	1 - B1				2.0 ml	Y	0.03		
18	1 - S1								
19	1 - S2								
20	JB 70629-1								JB 70629-1
21	JB 70740-1A								Smelly, cloudy
22	1 - B1				2.0 ml	Y	0.03		
	CCV				2.5 ML		0.03		0.03 ppm Hg std.
	CCB								
23	JB 70793-5				2.0 ml	Y	0.03		
24	1 - S2								
25	JB 70796-1A								JB 70796-1A
26	1 - 2A								
27	1 - 3A								
28	1 - 4A								
29	JB 70793-1A								
30	1 - B1				2.0 ml	Y	0.03		
31	1 - S1								
32	1 - S2								
	CCV				2.5 ML		0.03		0.03 ppm Hg std.
	CCB								



Mercury Digestion Log

Product HG / EHG
Matrix: Aq / Liq / DW
 MA Batc: MA34395
 Analyst: DP
 Date: 7/7/14
 Balance: N/A
 Reagents: See attached sheet
 Thermometer ID: 425

Methods (Circle as appropriate)

EPA 245.1

SW846 7470A

Type of Digestion:

 Hot Block
 ID 8
 Hot Block
 ID

 Start Time: 11:30 Temp: 74/195 End time: 13:30 Temp: 74/195
 Tubes: 44-76
 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	JB70799-1	Y	30	30					
34	JB70629-2								
35	JB70655-1								
36	-3								
37	-5								
38	-7								
39	-9								
40	-11								
41	-13								
42	-15								
	CCV				2.5 ML		0.03		0.03 ppm Hg std.
	CCB								
43	JB70602-1A								
44	JB70602-1A	N							
45	-24	N			2.0 ml	Y	0.03		
46	-31	Y	5						
47	-32		5						JB70198-2
48	JB70198-2		5						
49	JB70822-2		30						Smelly
50	-3								
51	-14								
52	JB70947-2								
	CCV				2.5 ML		0.03		0.03 ppm Hg std.
	CCB								
53	JB70832-1A								
54	JB70931-1								
55	JB71008-1B								
56	JB70457-2								
57	-28								
58	JB70517-3								
59	-4								
60	JB70524-1								
61	-2								
62	JB80495-33				2.0 ml	Y	0.03		
	CCV				2.5 ML		0.03		0.03 ppm Hg std.
	CCB								

Form GN022A-02
Revision Date: 03/25/13ANALYST: DCR
QC REVIEWER: DATE: 7/7/14
DATE:



Mercury Digestion Log

 Product HG / EHG
 Matrix: Aq / Liq / DW

 MA Batch MA34395
 Analyst: PI
 Date: 7/2/14
 Balance: N/A
 Reagents: See attached sheet
 Thermometer ID: 425

Methods (Circle as appropriate)

EPA 245.1

SW846 7470A

Type of Digestion:

 Hot Block
 ID 7
 Hot Block
 ID _____

 Start Time: 12:00 9411275 14:00 9471-95
 Temp: _____ Temp: _____ Tubes: 77-97
 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	MP80495-54	Y	30	30					
64	SB70508-2F								
65	-1F								
66	-3F								
67	-4F								
68	-5F								
69	-6F								
70	MP80495-54	N			2.0ml				DW
71	-24	N			2.0ml	Y	0.03		
72	-5	Y			2.5 ML		0.03		SB70422-1 0.03 ppm Hg std.
	CCV								
	CCB								
73	MP80494-52				2.0ml	Y	0.03		SB70422-1
74	SB70422-1								
75	SB70837-1								
76	SB70915-1								
77	MP80506-54	N							SP2P
78	MP80506-54	N							
79	SB70492-15B	Y							
80	MP80506-54	N							SP2P
81	-0				2.0ml	Y	0.03		
82	-5				2.5 ML		0.03		SB70706-1A 0.03 ppm Hg std.
	CCV								
	CCB								
83	MP80496-52				2.0ml	Y	0.03		SB70706-1A
84	SB70706-1A								
85	-9A								
86	-12A								
87	SB70722-1A								
88	SB70725-1A								
89	SB70647-1AB								
90	MP80506-54								
91	-B				2.0ml	Y	0.03		
92	-5	Y			2.5 ML		0.03		SB70647-2AB 0.03 ppm Hg std.
	CCV								
	CCB								
93	MP80500-52				2.0ml	Y	0.03		SB70647-2AB
94	SB70647-2AB								
95	MP80505-54								
96	-FL								
97	MP80495-55		25	25	1.0ml	Y	0.03		2.1 ml of spike in 25 ml of digested,
98									
99									
100									
	CCV				2.5 ML		0.03		0.03 ppm Hg std.
	CCB								

Form GN022A-02

ANALYST: PIDATE: 7/2/14



Reagent Information Log- Hg Waters

MA # 34395

Reagents	Exp. Date	Reagent # or manufacturer lot #
Conc. Sulfuric Acid	<u>7/14</u>	<u>Fisher 141489</u>
Conc. Nitric Acid	<u>7/14</u>	<u>Baker 0000574185</u>
Sodium Chloride-Hydroxylamine Hydrochloride	<u>1/7/15</u>	<u>1492 157 (E) DP</u> HG-- -- --HGCL
Potassium Permanganate 5%	<u>1/7/15</u>	<u>1492 155</u> --HGKM1
Potassium Persulfate	<u>1/7/14</u>	<u>1492 156</u> --HGKS
Stannous Chloride	<u>7/8/14</u>	<u>1496 136</u> --HGS
STD Hg standard solution 1000 ppm	<u>1/31/2016</u>	<u>ULTRA JO1211</u>
STD Hg standard solution 30 ppb	<u>7/8/14</u>	<u>1496 138</u> --HGA3
STD Hg standard solution 3 ppb	<u>7/8/14</u>	<u>1496 138</u> --HGA4
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>7/8/14</u>	<u>1496 135</u> --HGB3
Dilution Acid		HG-- -- --HGD2(AQ)
Digestion Tubes Lot	<u>N/A</u>	<u>Enviro Express-1404095</u> HG-- -- --HGD2(AQ)
pH Paper	<u>N/A</u>	<u>Hydriion Papers 1 to 12, Lot #16011-12-209510</u>

Form: GN087A79-03
Rev. Date: 02/27/13



Accutest Aqueous Metals Digestion Form

Batch Information						
Batch ID	Start Date	Start Time	End Date	End time	QC Samp 1	QC Samp 2
MP80388	6/30/2014	17:00	7/1/2014	23:00		

Temperature						
		Block ID#1	Therm. ID#	Temperature	Correction	Corrected Temp
1	Start	2	405	95	0	95
1	End	2	405	95	0	95
2	Start					
2	End					

Methods and Equipment					
	Dig. Method	Heating Method		Auto Pipette #	Digestion Tube Lot #
	SW846 3010A	Digestion Block		M54	1404095

Sample ID	Bottle Number	Pres (Y/N)	Initial Sample Volume	Final Volume in ML	Reagent Groups Added	Spike Groups Added	Comments
MP80388-MB1		N	50	50	AB		
JB70036-2	7	Y	50	50	AB		
JB70366-8	7	Y	50	50	AB		
JB70517-3	3	Y	50	50	AB		
JB70517-4	3	Y	50	50	AB		
JB70522-29	7	Y	50	50	AB		
MP80388-LC1		Y	50	50	AB		

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		
B		
C		
D		
E		
F		
G		
H		

Comments: _____

Analyst MICHAELB Approved by Wendyz Approved on 7/1/2014

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 80388Matrix: AQ

<u>Standard/Reagent Type</u>	<u>Exp. Date</u>	<u>Standard/Reagent ID</u>
<u>Spiking Solution - Reg. Spike</u>	<u>6/18/14</u>	<u>MP - 013 - 661</u> <u>-SP</u>
<u>Spiking Solution - Min. Spike</u>	<u>12/14/14</u>	<u>MP - 013 - 658</u> <u>-MIN1</u>
<u>Spiking Solution - Odd Spike</u>	<u>12/16/14</u>	<u>MP - 013 - 660</u> <u>-ODD</u>
<u>Spiking Solution - Other</u>		
<u>Spiking Solution - Other</u>		
<u>Nitric Acid</u>	<u>6/20/16</u>	<u>Batch # 0000074185 J. T. Baker</u>
<u>Nitric Acid (1:1)</u>		<u>MP - 0 -</u> <u>-HNO3 (1:1)</u>
<u>Hydrochloric Acid</u>	<u>12/25/14</u>	<u>MP - 013 - 20 - 202</u> <u>-HCl (1:1)</u>
<u>Hydrogen Peroxide</u>		<u>Lot #:</u> <u>Mfg.</u>
<u>Lab Control</u>	<u>9/1/14</u>	<u>MP - 0151 - 120</u> <u>-LCW</u>
<u>Spike Blank</u>		
<u>Filter Lot (sample filtration)</u>	<u>N/A</u>	<u>Lot #: FC008135 Mfg. Fisher Scientific</u>
<u>Digestion Tubes Lot</u>	<u>N/A</u>	<u>Lot #: 1404095 Mfg. Environmental Express</u>
<u>pH Paper</u>	<u>10/15/16</u>	<u>Hydriom Paper 1 to 12, lot # 228713</u>

Form: AA014B-01

Rev. Date: 5/12/08



Solids/Soil Metals Digestion Form

Batch Information							
Batch ID	Start Date	Start Time	End Date	End time	QC Samp 1	QC Samp 2	
MP80392	6/30/2014	16:00	6/30/2014	22:00	JB70517-1		

Temperature							
		Block ID	Therm. ID#	Balance ID	Temperature	Correction	Corrected Temp
1	Start	4	429	B41	91	0	91
1	End	4	429	NA	91	0	91
2	Start						
2	End			NA			

Methods and Equipment					
	Dig. Method	Heating Method		Auto Pipette #	Digestion Tube Lot #
	SW846 3050B	Digestion Block		M54	1404095

Sample ID	Bottle ID	Final Volume (ML)	Wet Weight (G)	Reagent Groups Added	Spike Groups Added	Comments
MP80392-MB1		100	0.60	ABCD		
MP80392-B1		100	0.55	ABCD	AB	
MP80392-S1	1	100	0.53	ABCD	AB	
MP80392-S2	1	100	0.52	ABCD	AB	
MP80392-SD1	1	100	0.50	ABCD		
JB70517-1	1	100	0.50	ABCD		
JB70517-2	1	100	0.51	ABCD		
JB70528-1A	1	100	0.50	ABCD		
JB70536-1	1	100	0.57	ABCD		
JB70536-10	1	100	0.56	ABCD		
JB70536-11	1	100	0.51	ABCD		
JB70536-12	1	100	0.58	ABCD		
JB70536-13	1	100	0.52	ABCD		
JB70536-2	1	100	0.58	ABCD		
JB70536-3	1	100	0.50	ABCD		
JB70536-4	1	100	0.53	ABCD		
JB70536-5	1	100	0.51	ABCD		
JB70536-6	1	100	0.52	ABCD		
JB70536-7	1	100	0.50	ABCD		
JB70536-8	1	100	0.50	ABCD		
JB70536-9	1	100	0.51	ABCD		
JB70540-1	1	100	0.60	ABCD		
JB70549-1	1	100	0.58	ABCD		
JB70549-2	1	100	0.55	ABCD		
JB70550-1	1	100	0.59	ABCD		

Reagents Groups		
Group	Description	MLs Used
A	CONC HNO3	2.5
B	1:1 HNO3	5
C	30% H2O2	2.5
D	CONC HCL	5
E		
F		
G		
H		

Spike Groups		
Group	Description	MLs Used
A	SP	1
B	MIN2	1
C		
D		
E		
F		
G		
H		

Comments: _____

Analyst MICHAELB Approved by Wendyz Approved on 7/1/2014

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 80392Matrix: SOIL

<u>Standard/Reagent Type</u>	<u>Exp. Date</u>	<u>Standard/Reagent ID</u>
<u>Spiking Solution - Reg. Spike</u>	<u>12/18/14</u>	<u>MP - 013- 661 -SP</u>
<u>Spiking Solution - Min. Spike</u>	<u>12/14/14</u>	<u>MP - 013- 659 -MIN2</u>
<u>Spiking Solution - Odd Spike</u>	<u>12/16/14</u>	<u>MP - 013- 660 -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>06/20/16</u>	<u>E-0000074185 J.T. Baker</u>
<u>Nitric Acid (1:1)</u>	<u>12/24 /14</u>	<u>MP - 013- 20 - 201 -HNO3 (1:1)</u>
<u>Hydrochloric Acid</u>	<u>06/20/16</u>	<u>E-0000068623 J.T. Baker</u>
<u>Hydrogen Peroxide</u>	<u>06/20/16</u>	<u>Lot #: 142358 Mfg. Fisher Scientific</u>
<u>Lab Control</u>	<u>06/17/15</u>	<u>Lot #: 0082-540 Mfg. ERA</u>
<u>Spike Blank</u>	<u> </u>	<u> </u>
<u>Filter Lot (sample filtration)</u>	<u>N/A</u>	<u>Lot #: FC008135 Mfg. Fisher Scientific</u>
<u>Digestion Tubes Lot</u>	<u>N/A</u>	<u>Lot #: 1404095 Mfg. Environmental Express</u>
<u>Teflon Chips</u>	<u>N/A</u>	<u>Batch # F718-26022 Saint Gobain</u>
<u>Filter Mate Filtration Device</u>	<u>N/A</u>	<u>Lot # 40107756 Mfg. Environmental Express</u>

Form: AA014A-02

Rev. Date: 10/15/12

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Percent Solids Raw Data Summary

Percent Solids Raw Data Summary

Job Number: JB70517
Account: LANGAN Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Sample: JB70517-1		Analyzed: 30-JUN-14 by AA		Method: SM2540 G-97
ClientID: 414-PE-30				
Wet Weight (Total)	31.05	g		
Tare Weight	21.61	g		
Dry Weight (Total)	27.54	g		
Solids, Percent	62.8	%		
Sample: JB70517-2		Analyzed: 30-JUN-14 by AA		Method: SM2540 G-97
ClientID: 415-PE-13				
Wet Weight (Total)	32.34	g		
Tare Weight	25.36	g		
Dry Weight (Total)	29.62	g		
Solids, Percent	61	%		

Misc. Raw Data

Raw Data

Methanol Prep Log

Vial	Track #:	Lims ID:	Initial Tare Wt (g)	Total Wt (g)	Weight of Sample (g)	Date Prepared	Lot #:	Prep By	Vial Desc:	Comments
6/17/2014-4361		JB70517-1.2	36.8800	41.9400	5.0600	6/27/2014 8:29:23 PM	dk010	GP	10ml MeOH	
6/19/2014-5139		JB70517-1.3	30.4000	35.6900	5.2900	6/27/2014 8:29:31 PM	di	jp	DI water	
6/19/2014-5140		JB70517-1.4	30.5500	36.0900	5.5400	6/27/2014 8:29:38 PM	di	jp	DI water	
6/17/2014-4347		JB70517-1.5	36.8500	42.1600	5.3100	6/27/2014 8:29:45 PM	dk010	GP	10ml MeOH	
6/19/2014-5167		JB70517-1.6	30.5100	35.7800	5.2700	6/27/2014 8:29:52 PM	di	jp	DI water	
6/19/2014-5168		JB70517-1.7	30.5000	35.7200	5.2200	6/27/2014 8:29:59 PM	di	jp	DI water	
6/17/2014-4352		JB70517-2.2	36.4400	41.3000	4.8600	6/27/2014 8:30:06 PM	dk010	GP	10ml MeOH	
6/19/2014-5157		JB70517-2.3	30.5200	35.4500	4.9300	6/27/2014 8:30:15 PM	di	jp	DI water	
6/19/2014-5158		JB70517-2.4	30.5800	35.8200	5.2400	6/27/2014 8:30:24 PM	di	jp	DI water	