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Automated Report

Technical Report for

Anderson, Mulholland & Associates

BMSMC, Building 5 Area, PR

SM04.00.06

SGS Accutest Job Number: JC20098

Sampling Dates: 05/10/16 - 05/11/16

Report to:

Anderson, Mulholland & Associates
2700 Westchester Avenue Suite 417
Purchase, NY 10577
ttaylor@amaiconsult.com

ATTN: Terry Taylor

Total number of pages in report: **1424**

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.

Nancy Cole
Laboratory Director

Client Service contact: Tammy McCloskey 732-329-0200

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Sample Summary

Anderson, Mulholland & Associates

Job No: JC20098

BMSMC, Building 5 Area, PR
Project No: SM04.00.06

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JC20098-1	05/10/16	16:10	NR/TT	05/12/16	AQ	Ground Water	RA19GWS
JC20098-2	05/11/16	09:50	NR/TT	05/12/16	SO	Soil	RA-19 (5-6)
JC20098-3	05/11/16	10:15	NR/TT	05/12/16	SO	Soil	RA-19 (6.2-7.2)
JC20098-4	05/11/16	13:25	NR/TT	05/12/16	AQ	Ground Water	S-39S
JC20098-5	05/11/16	15:00	NR/TT	05/12/16	AQ	Ground Water	RA19-GWD

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

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Anderson, Mulholland & Associates	**Job No**	JC20098
Site:	BMSMC, Building 5 Area, PR	**Report Date**	6/1/2016 4:38:53 PM

On 05/12/2016, 5 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at SGS Accutest at a maximum corrected temperature of 3.2 C. Samples were intact and chemically preserved, unless noted below. A SGS Accutest Job Number of JC20098 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.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP93867

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JC20098-1MS, JC20098-1MSD were used as the QC samples indicated.

Matrix: SO **Batch ID:** OP94085

- All samples were extracted within the recommended method holding time.
- Sample(s) JC20130-3MS, JC20130-3MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Blank Spike Recovery(s) for 1,2,4,5-Tetrachlorobenzene, Nitrobenzene are outside control limits. Outside of in house control limits, but within reasonable method recovery limits.
- RPD(s) for MS/MSD for 2,4-Dimethylphenol are outside of in house control limits.
- JC20098-2 for Hexachlorobutadiene: This compound in BS is outside in house QC limits bias high.
- JC20098-2 for 4-Nitrophenol: This compound in BS is outside in house QC limits bias high.
- Blank Spike Recovery(s) for 4-Nitrophenol, Hexachlorobutadiene are outside control limits. High percent recoveries and no associated positive found in the QC batch.
- JC20098-3 for Hexachlorobutadiene: This compound in BS is outside in house QC limits bias high.
- JC20098-3 for 4-Nitrophenol: This compound in BS is outside in house QC limits bias high.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP93867A

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JC20098-4MS, JC20098-4MSD were used as the QC samples indicated.
- Matrix Spike/Matrix Spike Duplicate Recovery(s) for 1,4-Dioxane are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- RPD(s) for MS/MSD for 1,4-Dioxane are outside control of in house control limits.

Matrix: SO **Batch ID:** OP94085A

- All samples were extracted within the recommended method holding time.
- Sample(s) JC20560-7QMS, JC20560-7QMSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Matrix Spike/Matrix Spike Duplicate Recovery(s) for Naphthalene are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- RPD(s) for MS/MSD for Naphthalene are outside control limits. Outside control limits due to matrix interference.
- OP94085A-MSD for Naphthalene: Outside control limits due to matrix interference.
- JC20098-2 for 1,4-Dioxane: Not accredited for this compound at the time of analysis, but all method requirements were followed.
- JC20098-3 for 1,4-Dioxane: Not accredited for this compound at the time of analysis, but all method requirements were followed.

Volatiles by GC By Method SW846-8015C (DAI)

Matrix: AQ **Batch ID:** GGH5285

- All samples were analyzed within the recommended method holding time.
- Sample(s) JC19644-1MS, JC19644-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Blank Spike Recovery(s) for Isopropyl Alcohol, n-Butyl Alcohol are outside control limits. High percent recoveries and no associated positive found in the QC batch.
- Matrix Spike Recovery(s) for n-Butyl Alcohol are outside control limits. High percent recoveries and no associated positive found in the QC batch.
- Matrix Spike Duplicate Recovery(s) for Isobutyl Alcohol, n-Butyl Alcohol are outside control limits. High percent recoveries and no associated positive found in the QC batch.
- GGH5285-BS: Reported from 1st Signal. %RSD of initial calibration on 2nd signal excess method criteria (20%) so using for confirmation only.
- GGH5285-MB3: Reported from 1st Signal. %RSD of initial calibration on 2nd signal excess method criteria (20%) so using for confirmation only.

Matrix: SO **Batch ID:** GGH5290

- All samples were analyzed within the recommended method holding time.
- Sample(s) JC19914-2MS, JC19914-2MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Extractables by GC By Method SW846 8081B

Matrix: AQ	**Batch ID:** OP93870

- All samples were extracted within the recommended method holding time.
- Sample(s) JC20058-1MS, JC20058-1MSD, were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Blank Spike Recovery(s) for delta-BHC are outside the QC limits.
- Matrix Spike Recovery(s) for delta-BHC are outside the QC limits.
- Matrix Spike Duplicate Recovery(s) for delta-BHC are outsidethe QC limits.
- JC20098-4: There is no additional sample for re-extraction.
- JC20098-4 for delta-BHC: This compound outside control limits biased low in the associated BS.

Matrix: AQ	**Batch ID:** OP93898

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JC20137-2MS, JC20137-2MSD were used as the QC samples indicated.

Wet Chemistry By Method SM2540 G-97

Matrix: SO	**Batch ID:** GN45812

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

SGS Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the 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.

SGS Accutest 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 SGS Accutest indicated via signature on the report cover

Summary of Hits

Job Number: JC20098
Account: Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Collected: 05/10/16 thru 05/11/16

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JC20098-1	**RA19GWS**					
1,4-Dioxane		0.827	0.13	0.061	ug/l	SW846 8270D BY SIM
JC20098-2	**RA-19 (5-6)**					
Naphthalene		4.28 J	4.4	0.53	ug/kg	SW846 8270D BY SIM
JC20098-3	**RA-19 (6.2-7.2)**					
No hits reported in this sample.						
JC20098-4	**S-39S**					
2,4-Dimethylphenol		14.3	6.2	3.0	ug/l	SW846 8270D
Anthracene		2.5	1.2	0.26	ug/l	SW846 8270D
1,4-Dioxane		32.6	1.2	0.81	ug/l	SW846 8270D
JC20098-5	**RA19-GWD**					
Anthracene		0.57 J	1.3	0.26	ug/l	SW846 8270D
1,4-Dioxane		271	13	8.2	ug/l	SW846 8270D

Sample Results

Report of Analysis

SGS Accutest

Report of Analysis

Client Sample ID:	RA19GWS		
Lab Sample ID:	JC20098-1	**Date Sampled:**	05/10/16
Matrix:	AQ - Ground Water	**Date Received:**	05/12/16
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F157066.D	1	05/13/16	BP	05/12/16	OP93867	EF6610
Run #2							

	Initial Volume	Final Volume
Run #1	800 ml	1.0 ml
Run #2		

ABN TCL Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	6.3	1.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	6.3	1.1	ug/l	
120-83-2	2,4-Dichlorophenol	ND	2.5	1.6	ug/l	
105-67-9	2,4-Dimethylphenol	ND	6.3	3.1	ug/l	
51-28-5	2,4-Dinitrophenol	ND	13	1.9	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	6.3	1.6	ug/l	
95-48-7	2-Methylphenol	ND	2.5	1.1	ug/l	
	3&4-Methylphenol	ND	2.5	1.1	ug/l	
88-75-5	2-Nitrophenol	ND	6.3	1.2	ug/l	
100-02-7	4-Nitrophenol	ND	13	1.4	ug/l	
87-86-5	Pentachlorophenol	ND	6.3	1.7	ug/l	
108-95-2	Phenol	ND	2.5	0.49	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	6.3	1.8	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	6.3	1.7	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	6.3	1.2	ug/l	
83-32-9	Acenaphthene	ND	1.3	0.24	ug/l	
208-96-8	Acenaphthylene	ND	1.3	0.17	ug/l	
98-86-2	Acetophenone	ND	2.5	0.26	ug/l	
120-12-7	Anthracene	ND	1.3	0.26	ug/l	
1912-24-9	Atrazine	ND	2.5	0.56	ug/l	
100-52-7	Benzaldehyde	ND	6.3	0.36	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.3	0.25	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.3	0.27	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.3	0.26	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.3	0.43	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.3	0.26	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.5	0.51	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.5	0.57	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.3	0.27	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.5	0.30	ug/l	
106-47-8	4-Chloroaniline	ND	6.3	0.43	ug/l	
86-74-8	Carbazole	ND	1.3	0.29	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:	RA19GWS		
Lab Sample ID:	JC20098-1	**Date Sampled:**	05/10/16
Matrix:	AQ - Ground Water	**Date Received:**	05/12/16
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, PR		

ABN TCL Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	2.5	0.81	ug/l	
218-01-9	Chrysene	ND	1.3	0.22	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.5	0.35	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.5	0.31	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.5	0.50	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.5	0.46	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	1.3	0.69	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	1.3	0.60	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	2.5	0.63	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.3	0.41	ug/l	
132-64-9	Dibenzofuran	ND	6.3	0.28	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.5	0.62	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.5	0.29	ug/l	
84-66-2	Diethyl phthalate	ND	2.5	0.33	ug/l	
131-11-3	Dimethyl phthalate	ND	2.5	0.27	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.5	2.1	ug/l	
206-44-0	Fluoranthene	ND	1.3	0.21	ug/l	
86-73-7	Fluorene	ND	1.3	0.21	ug/l	
118-74-1	Hexachlorobenzene	ND	1.3	0.41	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.3	0.62	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	13	3.5	ug/l	
67-72-1	Hexachloroethane	ND	2.5	0.49	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.3	0.42	ug/l	
78-59-1	Isophorone	ND	2.5	0.35	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.3	0.33	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.3	0.26	ug/l	
88-74-4	2-Nitroaniline	ND	6.3	0.35	ug/l	
99-09-2	3-Nitroaniline	ND	6.3	0.48	ug/l	
100-01-6	4-Nitroaniline	ND	6.3	0.55	ug/l	
98-95-3	Nitrobenzene	ND	2.5	0.80	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.5	0.60	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	6.3	0.28	ug/l	
85-01-8	Phenanthrene	ND	1.3	0.22	ug/l	
129-00-0	Pyrene	ND	1.3	0.27	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.5	0.46	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	42%		14-88%
4165-62-2	Phenol-d5	31%		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:	RA19GWS		
Lab Sample ID:	JC20098-1	**Date Sampled:**	05/10/16
Matrix:	AQ - Ground Water	**Date Received:**	05/12/16
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, PR		

ABN TCL Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	100%		39-149%
4165-60-0	Nitrobenzene-d5	77%		32-128%
321-60-8	2-Fluorobiphenyl	70%		35-119%
1718-51-0	Terphenyl-d14	81%		10-126%

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

SGS Accutest

Report of Analysis

Client Sample ID:	RA19GWS		
Lab Sample ID:	JC20098-1	**Date Sampled:**	05/10/16
Matrix:	AQ - Ground Water	**Date Received:**	05/12/16
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3M61312.D	1	05/13/16	AD	05/12/16	OP93867A	E3M2882
Run #2							

	Initial Volume	Final Volume
Run #1	800 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
91-20-3	Naphthalene	ND	0.13	0.037	ug/l	
123-91-1	1,4-Dioxane	0.827	0.13	0.061	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	62%		24-125%
321-60-8	2-Fluorobiphenyl	68%		19-127%
1718-51-0	Terphenyl-d14	94%		10-119%

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

SGS Accutest

Report of Analysis

Client Sample ID:	RA19GWS		
Lab Sample ID:	JC20098-1	**Date Sampled:**	05/10/16
Matrix:	AQ - Ground Water	**Date Received:**	05/12/16
Method:	SW846-8015C (DAI)	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GH104982.D	1	05/16/16	XPL	n/a	n/a	GGH5285
Run #2							

Low Molecular Alcohol List

CAS No.	Compound	Result	RL	MDL	Units	Q
64-17-5	Ethanol	ND	100	55	ug/l	
78-83-1	Isobutyl Alcohol	ND	100	36	ug/l	
67-63-0	Isopropyl Alcohol	ND	100	68	ug/l	
71-23-8	n-Propyl Alcohol	ND	100	43	ug/l	
71-36-3	n-Butyl Alcohol	ND	100	87	ug/l	
78-92-2	sec-Butyl Alcohol	ND	100	66	ug/l	
67-56-1	Methanol	ND	200	71	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	97%		56-145%

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

SGS Accutest

Report of Analysis

Client Sample ID:	RA-19 (5-6)		
Lab Sample ID:	JC20098-2	**Date Sampled:**	05/11/16
Matrix:	SO - Soil	**Date Received:**	05/12/16
Method:	SW846 8270D SW846 3546	**Percent Solids:**	75.6
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3P53791.D	1	05/25/16	RL	05/20/16	OP94085	E3P2447
Run #2							

	Initial Weight	Final Volume
Run #1	30.3 g	1.0 ml
Run #2		

ABN TCL Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	87	22	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	220	27	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	220	37	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	220	78	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	220	160	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	220	47	ug/kg	
95-48-7	2-Methylphenol	ND	87	28	ug/kg	
	3&4-Methylphenol	ND	87	36	ug/kg	
88-75-5	2-Nitrophenol	ND	220	29	ug/kg	
100-02-7	4-Nitrophenol [a]	ND	440	120	ug/kg	
87-86-5	Pentachlorophenol	ND	220	41	ug/kg	
108-95-2	Phenol	ND	87	23	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	220	29	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	220	33	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	220	26	ug/kg	
83-32-9	Acenaphthene	ND	44	15	ug/kg	
208-96-8	Acenaphthylene	ND	44	22	ug/kg	
98-86-2	Acetophenone	ND	220	9.4	ug/kg	
120-12-7	Anthracene	ND	44	27	ug/kg	
1912-24-9	Atrazine	ND	87	19	ug/kg	
56-55-3	Benzo(a)anthracene	ND	44	12	ug/kg	
50-32-8	Benzo(a)pyrene	ND	44	20	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	44	19	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	44	22	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	44	20	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	87	17	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	87	11	ug/kg	
92-52-4	1,1'-Biphenyl	ND	87	6.0	ug/kg	
100-52-7	Benzaldehyde	ND	220	11	ug/kg	
91-58-7	2-Chloronaphthalene	ND	87	10	ug/kg	
106-47-8	4-Chloroaniline	ND	220	16	ug/kg	
86-74-8	Carbazole	ND	87	6.3	ug/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:	RA-19 (5-6)		
Lab Sample ID:	JC20098-2	**Date Sampled:**	05/11/16
Matrix:	SO - Soil	**Date Received:**	05/12/16
Method:	SW846 8270D SW846 3546	**Percent Solids:**	75.6
Project:	BMSMC, Building 5 Area, PR		

ABN TCL Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	87	17	ug/kg	
218-01-9	Chrysene	ND	44	14	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	87	9.3	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	87	19	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	87	16	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	87	14	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	44	14	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	44	22	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	87	36	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	44	19	ug/kg	
132-64-9	Dibenzofuran	ND	87	18	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	87	7.1	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	87	11	ug/kg	
84-66-2	Diethyl phthalate	ND	87	9.3	ug/kg	
131-11-3	Dimethyl phthalate	ND	87	7.8	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	87	10	ug/kg	
206-44-0	Fluoranthene	ND	44	19	ug/kg	
86-73-7	Fluorene	ND	44	20	ug/kg	
118-74-1	Hexachlorobenzene	ND	87	11	ug/kg	
87-68-3	Hexachlorobutadiene [a]	ND	44	18	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	440	17	ug/kg	
67-72-1	Hexachloroethane	ND	220	22	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	44	20	ug/kg	
78-59-1	Isophorone	ND	87	9.3	ug/kg	
90-12-0	1-Methylnaphthalene	ND	87	8.6	ug/kg	
91-57-6	2-Methylnaphthalene	ND	87	9.9	ug/kg	
88-74-4	2-Nitroaniline	ND	220	10	ug/kg	
99-09-2	3-Nitroaniline	ND	220	11	ug/kg	
100-01-6	4-Nitroaniline	ND	220	11	ug/kg	
98-95-3	Nitrobenzene	ND	87	17	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	87	13	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	220	16	ug/kg	
85-01-8	Phenanthrene	ND	44	15	ug/kg	
129-00-0	Pyrene	ND	44	14	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	220	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	61%		30-106%
4165-62-2	Phenol-d5	60%		30-106%

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:	RA-19 (5-6)		
Lab Sample ID:	JC20098-2	**Date Sampled:**	05/11/16
Matrix:	SO - Soil	**Date Received:**	05/12/16
Method:	SW846 8270D SW846 3546	**Percent Solids:**	75.6
Project:	BMSMC, Building 5 Area, PR		

ABN TCL Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	80%		24-140%
4165-60-0	Nitrobenzene-d5	78%		26-122%
321-60-8	2-Fluorobiphenyl	73%		36-112%
1718-51-0	Terphenyl-d14	77%		36-132%

(a) This compound in BS is outside in house QC limits bias high.

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

SGS Accutest

Report of Analysis

Client Sample ID:	RA-19 (5-6)		
Lab Sample ID:	JC20098-2	**Date Sampled:**	05/11/16
Matrix:	SO - Soil	**Date Received:**	05/12/16
Method:	SW846 8270D BY SIM SW846 3546	**Percent Solids:**	75.6
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M65505.D	1	05/24/16	LK	05/20/16	OP94085A	E4M2931
Run #2							

	Initial Weight	Final Volume
Run #1	30.3 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane [a]	ND	4.4	0.88	ug/kg	
91-20-3	Naphthalene	4.28	4.4	0.53	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	111%		15-138%
321-60-8	2-Fluorobiphenyl	118%		12-148%
1718-51-0	Terphenyl-d14	126%		10-157%

(a) Not accredited for this compound at the time of analysis, but all method requirements were followed.

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

SGS Accutest

Report of Analysis

Client Sample ID:	RA-19 (5-6)		
Lab Sample ID:	JC20098-2	**Date Sampled:**	05/11/16
Matrix:	SO - Soil	**Date Received:**	05/12/16
Method:	SW846-8015C (DAI)	**Percent Solids:**	75.6
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GH105062.D	1	05/18/16	XPL	n/a	n/a	GGH5290
Run #2							

	Initial Weight
Run #1	5.0 g
Run #2	

Low Molecular Alcohol List

CAS No.	Compound	Result	RL	MDL	Units	Q
64-17-5	Ethanol	ND	130	91	ug/kg	
78-83-1	Isobutyl Alcohol	ND	130	78	ug/kg	
67-63-0	Isopropyl Alcohol	ND	130	76	ug/kg	
71-23-8	n-Propyl Alcohol	ND	130	53	ug/kg	
71-36-3	n-Butyl Alcohol	ND	130	72	ug/kg	
78-92-2	sec-Butyl Alcohol	ND	130	71	ug/kg	
67-56-1	Methanol	ND	260	63	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	107%		52-141%
111-27-3	Hexanol	110%		52-141%

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

SGS Accutest

Report of Analysis

Client Sample ID:	RA-19 (6.2-7.2)		
Lab Sample ID:	JC20098-3	**Date Sampled:**	05/11/16
Matrix:	SO - Soil	**Date Received:**	05/12/16
Method:	SW846 8270D SW846 3546	**Percent Solids:**	76.1
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3P53792.D	1	05/25/16	RL	05/20/16	OP94085	E3P2447
Run #2							

	Initial Weight	Final Volume
Run #1	32.1 g	1.0 ml
Run #2		

ABN TCL Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	82	20	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	200	25	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	200	35	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	200	73	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	200	150	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	200	44	ug/kg	
95-48-7	2-Methylphenol	ND	82	26	ug/kg	
	3&4-Methylphenol	ND	82	34	ug/kg	
88-75-5	2-Nitrophenol	ND	200	27	ug/kg	
100-02-7	4-Nitrophenol [a]	ND	410	110	ug/kg	
87-86-5	Pentachlorophenol	ND	200	38	ug/kg	
108-95-2	Phenol	ND	82	21	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	200	27	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	200	31	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	200	24	ug/kg	
83-32-9	Acenaphthene	ND	41	14	ug/kg	
208-96-8	Acenaphthylene	ND	41	21	ug/kg	
98-86-2	Acetophenone	ND	200	8.8	ug/kg	
120-12-7	Anthracene	ND	41	25	ug/kg	
1912-24-9	Atrazine	ND	82	18	ug/kg	
56-55-3	Benzo(a)anthracene	ND	41	12	ug/kg	
50-32-8	Benzo(a)pyrene	ND	41	19	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	41	18	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	41	20	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	41	19	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	82	16	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	82	10	ug/kg	
92-52-4	1,1'-Biphenyl	ND	82	5.6	ug/kg	
100-52-7	Benzaldehyde	ND	200	10	ug/kg	
91-58-7	2-Chloronaphthalene	ND	82	9.7	ug/kg	
106-47-8	4-Chloroaniline	ND	200	15	ug/kg	
86-74-8	Carbazole	ND	82	5.9	ug/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:	RA-19 (6.2-7.2)		
Lab Sample ID:	JC20098-3	**Date Sampled:**	05/11/16
Matrix:	SO - Soil	**Date Received:**	05/12/16
Method:	SW846 8270D SW846 3546	**Percent Solids:**	76.1
Project:	BMSMC, Building 5 Area, PR		

ABN TCL Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	82	16	ug/kg	
218-01-9	Chrysene	ND	41	13	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	82	8.8	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	82	18	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	82	15	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	82	13	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	41	13	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	41	21	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	82	34	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	41	18	ug/kg	
132-64-9	Dibenzofuran	ND	82	17	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	82	6.7	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	82	10	ug/kg	
84-66-2	Diethyl phthalate	ND	82	8.7	ug/kg	
131-11-3	Dimethyl phthalate	ND	82	7.3	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	82	9.6	ug/kg	
206-44-0	Fluoranthene	ND	41	18	ug/kg	
86-73-7	Fluorene	ND	41	19	ug/kg	
118-74-1	Hexachlorobenzene	ND	82	10	ug/kg	
87-68-3	Hexachlorobutadiene [a]	ND	41	16	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	410	16	ug/kg	
67-72-1	Hexachloroethane	ND	200	20	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	41	19	ug/kg	
78-59-1	Isophorone	ND	82	8.8	ug/kg	
90-12-0	1-Methylnaphthalene	ND	82	8.0	ug/kg	
91-57-6	2-Methylnaphthalene	ND	82	9.3	ug/kg	
88-74-4	2-Nitroaniline	ND	200	9.7	ug/kg	
99-09-2	3-Nitroaniline	ND	200	10	ug/kg	
100-01-6	4-Nitroaniline	ND	200	11	ug/kg	
98-95-3	Nitrobenzene	ND	82	16	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	82	12	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	200	15	ug/kg	
85-01-8	Phenanthrene	ND	41	14	ug/kg	
129-00-0	Pyrene	ND	41	13	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	200	10	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	56%		30-106%
4165-62-2	Phenol-d5	53%		30-106%

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

Report of Analysis

Client Sample ID:	RA-19 (6.2-7.2)		
Lab Sample ID:	JC20098-3	**Date Sampled:**	05/11/16
Matrix:	SO - Soil	**Date Received:**	05/12/16
Method:	SW846 8270D SW846 3546	**Percent Solids:**	76.1
Project:	BMSMC, Building 5 Area, PR		

ABN TCL Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	75%		24-140%
4165-60-0	Nitrobenzene-d5	72%		26-122%
321-60-8	2-Fluorobiphenyl	69%		36-112%
1718-51-0	Terphenyl-d14	72%		36-132%

(a) This compound in BS is outside in house QC limits bias high.

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

SGS Accutest

Report of Analysis

Client Sample ID:	RA-19 (6.2-7.2)		
Lab Sample ID:	JC20098-3	**Date Sampled:**	05/11/16
Matrix:	SO - Soil	**Date Received:**	05/12/16
Method:	SW846 8270D BY SIM SW846 3546	**Percent Solids:**	76.1
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M65506.D	1	05/25/16	LK	05/20/16	OP94085A	E4M2931
Run #2							

	Initial Weight	Final Volume
Run #1	32.1 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane [a]	ND	4.1	0.82	ug/kg	
91-20-3	Naphthalene	ND	4.1	0.50	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	94%		15-138%
321-60-8	2-Fluorobiphenyl	100%		12-148%
1718-51-0	Terphenyl-d14	108%		10-157%

(a) Not accredited for this compound at the time of analysis, but all method requirements were followed.

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

SGS Accutest

Report of Analysis

Client Sample ID:	RA-19 (6.2-7.2)		
Lab Sample ID:	JC20098-3	**Date Sampled:**	05/11/16
Matrix:	SO - Soil	**Date Received:**	05/12/16
Method:	SW846-8015C (DAI)	**Percent Solids:**	76.1
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GH105063.D	1	05/18/16	XPL	n/a	n/a	GGH5290
Run #2							

	Initial Weight
Run #1	5.1 g
Run #2	

Low Molecular Alcohol List

CAS No.	Compound	Result	RL	MDL	Units	Q
64-17-5	Ethanol	ND	130	89	ug/kg	
78-83-1	Isobutyl Alcohol	ND	130	76	ug/kg	
67-63-0	Isopropyl Alcohol	ND	130	74	ug/kg	
71-23-8	n-Propyl Alcohol	ND	130	52	ug/kg	
71-36-3	n-Butyl Alcohol	ND	130	70	ug/kg	
78-92-2	sec-Butyl Alcohol	ND	130	69	ug/kg	
67-56-1	Methanol	ND	260	62	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	110%		52-141%
111-27-3	Hexanol	112%		52-141%

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

SGS Accutest

Report of Analysis

Client Sample ID:	S-39S		
Lab Sample ID:	JC20098-4	**Date Sampled:**	05/11/16
Matrix:	AQ - Ground Water	**Date Received:**	05/12/16
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F157067.D	1	05/13/16	BP	05/12/16	OP93867	EF6610
Run #2							

	Initial Volume	Final Volume
Run #1	810 ml	1.0 ml
Run #2		

ABN TCL Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	6.2	1.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	6.2	1.1	ug/l	
120-83-2	2,4-Dichlorophenol	ND	2.5	1.6	ug/l	
105-67-9	2,4-Dimethylphenol	14.3	6.2	3.0	ug/l	
51-28-5	2,4-Dinitrophenol	ND	12	1.9	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	6.2	1.6	ug/l	
95-48-7	2-Methylphenol	ND	2.5	1.1	ug/l	
	3&4-Methylphenol	ND	2.5	1.1	ug/l	
88-75-5	2-Nitrophenol	ND	6.2	1.2	ug/l	
100-02-7	4-Nitrophenol	ND	12	1.4	ug/l	
87-86-5	Pentachlorophenol	ND	6.2	1.7	ug/l	
108-95-2	Phenol	ND	2.5	0.48	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	6.2	1.8	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	6.2	1.6	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	6.2	1.1	ug/l	
83-32-9	Acenaphthene	ND	1.2	0.24	ug/l	
208-96-8	Acenaphthylene	ND	1.2	0.17	ug/l	
98-86-2	Acetophenone	ND	2.5	0.26	ug/l	
120-12-7	Anthracene	2.5	1.2	0.26	ug/l	
1912-24-9	Atrazine	ND	2.5	0.55	ug/l	
100-52-7	Benzaldehyde	ND	6.2	0.36	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.2	0.25	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.2	0.26	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.2	0.25	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.2	0.42	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.2	0.25	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.5	0.50	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.5	0.56	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.2	0.26	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.5	0.29	ug/l	
106-47-8	4-Chloroaniline	ND	6.2	0.42	ug/l	
86-74-8	Carbazole	ND	1.2	0.28	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:	S-39S		
Lab Sample ID:	JC20098-4	**Date Sampled:**	05/11/16
Matrix:	AQ - Ground Water	**Date Received:**	05/12/16
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, PR		

ABN TCL Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	2.5	0.80	ug/l	
218-01-9	Chrysene	ND	1.2	0.22	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.5	0.34	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.5	0.31	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.5	0.50	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.5	0.45	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	1.2	0.68	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	1.2	0.59	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	2.5	0.63	ug/l	
123-91-1	1,4-Dioxane	32.6	1.2	0.81	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.2	0.41	ug/l	
132-64-9	Dibenzofuran	ND	6.2	0.27	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.5	0.61	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.5	0.29	ug/l	
84-66-2	Diethyl phthalate	ND	2.5	0.32	ug/l	
131-11-3	Dimethyl phthalate	ND	2.5	0.27	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.5	2.0	ug/l	
206-44-0	Fluoranthene	ND	1.2	0.21	ug/l	
86-73-7	Fluorene	ND	1.2	0.21	ug/l	
118-74-1	Hexachlorobenzene	ND	1.2	0.40	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.2	0.61	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	12	3.4	ug/l	
67-72-1	Hexachloroethane	ND	2.5	0.48	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.2	0.41	ug/l	
78-59-1	Isophorone	ND	2.5	0.34	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.2	0.32	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.2	0.26	ug/l	
88-74-4	2-Nitroaniline	ND	6.2	0.34	ug/l	
99-09-2	3-Nitroaniline	ND	6.2	0.48	ug/l	
100-01-6	4-Nitroaniline	ND	6.2	0.54	ug/l	
98-95-3	Nitrobenzene	ND	2.5	0.79	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.5	0.59	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	6.2	0.27	ug/l	
85-01-8	Phenanthrene	ND	1.2	0.22	ug/l	
129-00-0	Pyrene	ND	1.2	0.27	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.5	0.46	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	47%		14-88%

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:	S-39S		
Lab Sample ID:	JC20098-4	**Date Sampled:**	05/11/16
Matrix:	AQ - Ground Water	**Date Received:**	05/12/16
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, PR		

ABN TCL Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	36%		10-110%
118-79-6	2,4,6-Tribromophenol	96%		39-149%
4165-60-0	Nitrobenzene-d5	76%		32-128%
321-60-8	2-Fluorobiphenyl	77%		35-119%
1718-51-0	Terphenyl-d14	80%		10-126%

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

SGS Accutest

Report of Analysis

Client Sample ID:	S-39S		
Lab Sample ID:	JC20098-4	**Date Sampled:**	05/11/16
Matrix:	AQ - Ground Water	**Date Received:**	05/12/16
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3M61313.D	1	05/13/16	AD	05/12/16	OP93867A	E3M2882
Run #2							

	Initial Volume	Final Volume
Run #1	810 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
91-20-3	Naphthalene	ND	0.12	0.036	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	66%		24-125%
321-60-8	2-Fluorobiphenyl	76%		19-127%
1718-51-0	Terphenyl-d14	95%		10-119%

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

SGS Accutest

Report of Analysis

Client Sample ID:	S-39S		
Lab Sample ID:	JC20098-4	**Date Sampled:**	05/11/16
Matrix:	AQ - Ground Water	**Date Received:**	05/12/16
Method:	SW846-8015C (DAI)	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GH104983.D	1	05/16/16	XPL	n/a	n/a	GGH5285
Run #2							

Low Molecular Alcohol List

CAS No.	Compound	Result	RL	MDL	Units	Q
64-17-5	Ethanol	ND	100	55	ug/l	
78-83-1	Isobutyl Alcohol	ND	100	36	ug/l	
67-63-0	Isopropyl Alcohol	ND	100	68	ug/l	
71-23-8	n-Propyl Alcohol	ND	100	43	ug/l	
71-36-3	n-Butyl Alcohol	ND	100	87	ug/l	
78-92-2	sec-Butyl Alcohol	ND	100	66	ug/l	
67-56-1	Methanol	ND	200	71	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	102%		56-145%

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

SGS Accutest

Report of Analysis

Client Sample ID:	S-39S		
Lab Sample ID:	JC20098-4	**Date Sampled:**	05/11/16
Matrix:	AQ - Ground Water	**Date Received:**	05/12/16
Method:	SW846 8081B SW846 3510C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	4G68217.D	1	05/13/16	DS	05/12/16	OP93870	G4G1788
Run #2							

	Initial Volume	Final Volume
Run #1	980 ml	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.010	0.0062	ug/l	
319-84-6	alpha-BHC	ND	0.010	0.0061	ug/l	
319-85-7	beta-BHC	ND	0.010	0.0058	ug/l	
319-86-8	delta-BHC [b]	ND	0.010	0.0047	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.010	0.0028	ug/l	
5103-71-9	alpha-Chlordane	ND	0.010	0.0047	ug/l	
5103-74-2	gamma-Chlordane	ND	0.010	0.0047	ug/l	
60-57-1	Dieldrin	ND	0.010	0.0037	ug/l	
72-54-8	4,4'-DDD	ND	0.010	0.0039	ug/l	
72-55-9	4,4'-DDE	ND	0.010	0.0063	ug/l	
50-29-3	4,4'-DDT	ND	0.010	0.0051	ug/l	
72-20-8	Endrin	ND	0.010	0.0051	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.010	0.0054	ug/l	
7421-93-4	Endrin aldehyde	ND	0.010	0.0052	ug/l	
53494-70-5	Endrin ketone	ND	0.010	0.0052	ug/l	
959-98-8	Endosulfan-I	ND	0.010	0.0051	ug/l	
33213-65-9	Endosulfan-II	ND	0.010	0.0044	ug/l	
76-44-8	Heptachlor	ND	0.010	0.0039	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.010	0.0067	ug/l	
72-43-5	Methoxychlor	ND	0.020	0.0058	ug/l	
8001-35-2	Toxaphene	ND	0.26	0.19	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	109%		26-132%
877-09-8	Tetrachloro-m-xylene	72%		26-132%
2051-24-3	Decachlorobiphenyl	82%		10-118%
2051-24-3	Decachlorobiphenyl	51%		10-118%

(a) There is no additional sample for re-extraction.
(b) This compound outside control limits biased low in the associated BS.

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

SGS Accutest

Report of Analysis

Client Sample ID:	RA19-GWD		
Lab Sample ID:	JC20098-5	**Date Sampled:**	05/11/16
Matrix:	AQ - Ground Water	**Date Received:**	05/12/16
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F157068.D	1	05/13/16	BP	05/12/16	OP93867	EF6610
Run #2	F157081.D	10	05/13/16	BP	05/12/16	OP93867	EF6610

	Initial Volume	Final Volume
Run #1	800 ml	1.0 ml
Run #2	800 ml	1.0 ml

ABN TCL Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	6.3	1.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	6.3	1.1	ug/l	
120-83-2	2,4-Dichlorophenol	ND	2.5	1.6	ug/l	
105-67-9	2,4-Dimethylphenol	ND	6.3	3.1	ug/l	
51-28-5	2,4-Dinitrophenol	ND	13	1.9	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	6.3	1.6	ug/l	
95-48-7	2-Methylphenol	ND	2.5	1.1	ug/l	
	3&4-Methylphenol	ND	2.5	1.1	ug/l	
88-75-5	2-Nitrophenol	ND	6.3	1.2	ug/l	
100-02-7	4-Nitrophenol	ND	13	1.4	ug/l	
87-86-5	Pentachlorophenol	ND	6.3	1.7	ug/l	
108-95-2	Phenol	ND	2.5	0.49	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	6.3	1.8	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	6.3	1.7	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	6.3	1.2	ug/l	
83-32-9	Acenaphthene	ND	1.3	0.24	ug/l	
208-96-8	Acenaphthylene	ND	1.3	0.17	ug/l	
98-86-2	Acetophenone	ND	2.5	0.26	ug/l	
120-12-7	Anthracene	0.57	1.3	0.26	ug/l	J
1912-24-9	Atrazine	ND	2.5	0.56	ug/l	
100-52-7	Benzaldehyde	ND	6.3	0.36	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.3	0.25	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.3	0.27	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.3	0.26	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.3	0.43	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.3	0.26	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.5	0.51	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.5	0.57	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.3	0.27	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.5	0.30	ug/l	
106-47-8	4-Chloroaniline	ND	6.3	0.43	ug/l	
86-74-8	Carbazole	ND	1.3	0.29	ug/l	

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

Report of Analysis

Client Sample ID:	RA19-GWD		
Lab Sample ID:	JC20098-5	**Date Sampled:**	05/11/16
Matrix:	AQ - Ground Water	**Date Received:**	05/12/16
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, PR		

ABN TCL Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	2.5	0.81	ug/l	
218-01-9	Chrysene	ND	1.3	0.22	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.5	0.35	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.5	0.31	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.5	0.50	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.5	0.46	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	1.3	0.69	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	1.3	0.60	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	2.5	0.63	ug/l	
123-91-1	1,4-Dioxane	271 [a]	13	8.2	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.3	0.41	ug/l	
132-64-9	Dibenzofuran	ND	6.3	0.28	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.5	0.62	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.5	0.29	ug/l	
84-66-2	Diethyl phthalate	ND	2.5	0.33	ug/l	
131-11-3	Dimethyl phthalate	ND	2.5	0.27	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.5	2.1	ug/l	
206-44-0	Fluoranthene	ND	1.3	0.21	ug/l	
86-73-7	Fluorene	ND	1.3	0.21	ug/l	
118-74-1	Hexachlorobenzene	ND	1.3	0.41	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.3	0.62	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	13	3.5	ug/l	
67-72-1	Hexachloroethane	ND	2.5	0.49	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.3	0.42	ug/l	
78-59-1	Isophorone	ND	2.5	0.35	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.3	0.33	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.3	0.26	ug/l	
88-74-4	2-Nitroaniline	ND	6.3	0.35	ug/l	
99-09-2	3-Nitroaniline	ND	6.3	0.48	ug/l	
100-01-6	4-Nitroaniline	ND	6.3	0.55	ug/l	
98-95-3	Nitrobenzene	ND	2.5	0.80	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.5	0.60	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	6.3	0.28	ug/l	
85-01-8	Phenanthrene	ND	1.3	0.22	ug/l	
129-00-0	Pyrene	ND	1.3	0.27	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.5	0.46	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	39%	30%	14-88%

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:	RA19-GWD		
Lab Sample ID:	JC20098-5	**Date Sampled:**	05/11/16
Matrix:	AQ - Ground Water	**Date Received:**	05/12/16
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, PR		

ABN TCL Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	29%	25%	10-110%
118-79-6	2,4,6-Tribromophenol	95%	100%	39-149%
4165-60-0	Nitrobenzene-d5	71%	63%	32-128%
321-60-8	2-Fluorobiphenyl	63%	61%	35-119%
1718-51-0	Terphenyl-d14	77%	75%	10-126%

(a) Result is from Run# 2

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

SGS Accutest

Report of Analysis

Client Sample ID:	RA19-GWD		
Lab Sample ID:	JC20098-5	**Date Sampled:**	05/11/16
Matrix:	AQ - Ground Water	**Date Received:**	05/12/16
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3M61314.D	1	05/13/16	AD	05/12/16	OP93867A	E3M2882
Run #2							

	Initial Volume	Final Volume
Run #1	800 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
91-20-3	Naphthalene	ND	0.13	0.037	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	60%		24-125%
321-60-8	2-Fluorobiphenyl	60%		19-127%
1718-51-0	Terphenyl-d14	88%		10-119%

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

SGS Accutest

Report of Analysis

Client Sample ID:	RA19-GWD		
Lab Sample ID:	JC20098-5	**Date Sampled:**	05/11/16
Matrix:	AQ - Ground Water	**Date Received:**	05/12/16
Method:	SW846-8015C (DAI)	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GH104984.D	1	05/16/16	XPL	n/a	n/a	GGH5285
Run #2							

Low Molecular Alcohol List

CAS No.	Compound	Result	RL	MDL	Units	Q
64-17-5	Ethanol	ND	100	55	ug/l	
78-83-1	Isobutyl Alcohol	ND	100	36	ug/l	
67-63-0	Isopropyl Alcohol	ND	100	68	ug/l	
71-23-8	n-Propyl Alcohol	ND	100	43	ug/l	
71-36-3	n-Butyl Alcohol	ND	100	87	ug/l	
78-92-2	sec-Butyl Alcohol	ND	100	66	ug/l	
67-56-1	Methanol	ND	200	71	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	100%		56-145%

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

SGS Accutest

Report of Analysis

Client Sample ID:	RA19-GWD		
Lab Sample ID:	JC20098-5	**Date Sampled:**	05/11/16
Matrix:	AQ - Ground Water	**Date Received:**	05/12/16
Method:	SW846 8081B SW846 3510C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6G35091.D	1	05/16/16	RK	05/13/16	OP93898	G6G1011
Run #2							

	Initial Volume	Final Volume
Run #1	870 ml	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.011	0.0069	ug/l	
319-84-6	alpha-BHC	ND	0.011	0.0069	ug/l	
319-85-7	beta-BHC	ND	0.011	0.0065	ug/l	
319-86-8	delta-BHC	ND	0.011	0.0052	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.011	0.0032	ug/l	
5103-71-9	alpha-Chlordane	ND	0.011	0.0053	ug/l	
5103-74-2	gamma-Chlordane	ND	0.011	0.0053	ug/l	
60-57-1	Dieldrin	ND	0.011	0.0041	ug/l	
72-54-8	4,4'-DDD	ND	0.011	0.0044	ug/l	
72-55-9	4,4'-DDE	ND	0.011	0.0071	ug/l	
50-29-3	4,4'-DDT	ND	0.011	0.0057	ug/l	
72-20-8	Endrin	ND	0.011	0.0058	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.011	0.0060	ug/l	
7421-93-4	Endrin aldehyde	ND	0.011	0.0059	ug/l	
53494-70-5	Endrin ketone	ND	0.011	0.0058	ug/l	
959-98-8	Endosulfan-I	ND	0.011	0.0057	ug/l	
33213-65-9	Endosulfan-II	ND	0.011	0.0049	ug/l	
76-44-8	Heptachlor	ND	0.011	0.0044	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.011	0.0075	ug/l	
72-43-5	Methoxychlor	ND	0.023	0.0065	ug/l	
8001-35-2	Toxaphene	ND	0.29	0.21	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	81%		26-132%
877-09-8	Tetrachloro-m-xylene	73%		26-132%
2051-24-3	Decachlorobiphenyl	37%		10-118%
2051-24-3	Decachlorobiphenyl	38%		10-118%

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

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

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

GW
SO - Foreign

SGS **ACCUTEST - NJ**

CHAIN OF CUSTODY

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

PAGE 1 OF 1

SUB

SGS Accutest Quote # 801219536084

Bottle Order Control #

SGS Accutest Job # JC 20098

Client / Reporting Information

Company Name: Anderson Mulholland Assoc. Inc
Street Address: 2700 Westchester
City State Zip: Purchase NY
Project Contact: Terry Taylor
E-mail:
Phone #: 914-251-0400
Fax #:
Sampler(s) Name(s): N. Rivera, T. Taylor, D. Lindstrand
Phone #:

Project Information

Project Name: BMS Release Assessment
Street:
City State: Humacao PR
Project #:
Client Purchase Order #:
Project Manager:

Billing Information (if different from Report to)

Company Name:
Street Address:
City State Zip:
Attention:

Requested Analysis (see TEST CODE sheet)

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

SGS Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	SVOC - Method 8270D	LMA - Method 8015B	Pesticides - Method 8081B	1,4 Dioxane + Naphthalene by Method 8270D SIM	LAB USE ONLY
1	RA19GWS		05/10/16	1610		GW	6	3				3				X	X	X	X	E4D
2	RA-19 (5-6)		05/11/16	0950		SO	2					2				X	X		X	FS1
3	RA-19 (6.2-7.2)		05/11/16	1015		SO	2					2				X	X		X	SJB
4	S-39S		05/11/16	1325		GW	6	3				3				X	X	X	X	
5	RA19-GWD		05/11/16	1500		GW	6	3				3				X	X	X	X	

INITIAL ASSESSMENT 380
LABEL VERIFICATION

Turnaround Time (Business days)

Approved By (SGS Accutest PM): / Date:

- [x] Std. 10 Business Days For soil samples
- [ ] 5 Day RUSH
- [ ] 3 Day RUSH
- [ ] 2 Day RUSH
- [x] 1 Day RUSH For aqueous samples
- [ ] other

Emergency & Rush T/A data available VIA Lablink

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [x] FULLT1 (Level 3+4)
- [ ] NJ Reduced
- [ ] Commercial "C"
- [ ] NJ Data of Known Quality Protocol Reporting
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [ ] EDD Format
- [ ] Other

Commercial "A" = Results Only, Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions

Add to Report: 1-methyl naphthalene with SVOC Method 8270D

Sample inventory is verified upon receipt in the Laboratory

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 [signature]	05/11/16 1500	1 FedEX	2 Fedex	5/12/16 0930	2 [signature]
3		3	4		4
5		5			

Custody Seal # 361 [x] Intact [ ] Not intact

Preserved where applicable [ ]

On Ice [x]

Cooler Temp. 2.8°C IP

JC20098: Chain of Custody
Page 1 of 4

SGS Accutest Sample Receipt Summary

Job Number: JC20098 **Client:** Anderson Mulholland **Project:** BMS Release

Date / Time Received: 5/12/2016 9:30:00 AM **Delivery Method:** FedEx **Airbill #'s:** 801219536084

Cooler Temps (Raw Measured) °C: Cooler 1: (2.8);

Cooler Temps (Corrected) °C: Cooler 1: (3.2);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR Gun		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☑	☐
2. Trip Blank listed on COC:	☐		☑	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
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

1) -1,-4,-5: Rec'd 1 x 950ml for PEST, limited volume.

SGS Accutest Sample Receipt Summary

5/12/2016

Problem Note Response: Proceed with analysis

Job Change Order: JC20098

Requested Date:	5/14/2016	**Received Date:**	5/12/2016
Account Name:	Anderson, Mulholland & Associate	**Due Date:**	5/13/2016
Project Description:	BMSMC, Building 5 Area, PR	**Deliverable:**	FULT1
CSR:	TammyM	**TAT (Days):**	1

==========

Sample #: JC20098-1

Dept:

TAT: 1

RA19GWS

Change:
cancel P8081PES TTCL, due to lab error we are unable to analyze

==========

Above Changes Per: Bruce Scholz (Lab)

Date/Time: 5/14/2016 9:25:07 AM

To Client: This Change Order is confirmation of the revisions, previously discussed with the SGS Accutest Client Service Representative.

Internal Sample Tracking Chronicle

Anderson, Mulholland & Associates

Job No: JC20098

BMSMC, Building 5 Area, PR
Project No: SM04.00.06

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JC20098-1 RA19GWS	Collected: 10-MAY-16 16:10 By: NR/TT		Received: 12-MAY-16 By: DDH			
JC20098-1	SW846 8270D	13-MAY-16 12:29	BP	12-MAY-16	SD	AB8270SL
JC20098-1	SW846 8270D BY SIM	13-MAY-16 14:22	AD	12-MAY-16	KS	B8270SIM14DIOX,BSIM + NAP
JC20098-1	SW846-8015C (DAI)	16-MAY-16 21:58	XPL			D8015LMA
JC20098-2 RA-19 (5-6)	Collected: 11-MAY-16 09:50 By: NR/TT		Received: 12-MAY-16 By: DDH			
JC20098-2	SM2540 G-97	13-MAY-16 16:00	KP			SOL104
JC20098-2	SW846-8015C (DAI)	18-MAY-16 17:59	XPL			D8015LMA
JC20098-2	SW846 8270D BY SIM	24-MAY-16 23:55	LK	20-MAY-16	AQ	B8270SIM14DIOX,BSIM + NAP
JC20098-2	SW846 8270D	25-MAY-16 15:49	RL	20-MAY-16	AQ	AB8270SL
JC20098-3 RA-19 (6.2-7.2)	Collected: 11-MAY-16 10:15 By: NR/TT		Received: 12-MAY-16 By: DDH			
JC20098-3	SM2540 G-97	13-MAY-16 16:00	KP			SOL104
JC20098-3	SW846-8015C (DAI)	18-MAY-16 18:13	XPL			D8015LMA
JC20098-3	SW846 8270D BY SIM	25-MAY-16 00:25	LK	20-MAY-16	AQ	B8270SIM14DIOX,BSIM + NAP
JC20098-3	SW846 8270D	25-MAY-16 16:17	RL	20-MAY-16	AQ	AB8270SL
JC20098-4 S-39S	Collected: 11-MAY-16 13:25 By: NR/TT		Received: 12-MAY-16 By: DDH			
JC20098-4	SW846 8081B	13-MAY-16 10:36	DS	12-MAY-16	SD	P8081PESTTCL
JC20098-4	SW846 8270D	13-MAY-16 12:58	BP	12-MAY-16	SD	AB8270SL
JC20098-4	SW846 8270D BY SIM	13-MAY-16 14:55	AD	12-MAY-16	RF	BSIM + NAP
JC20098-4	SW846-8015C (DAI)	16-MAY-16 22:12	XPL			D8015LMA
JC20098-5 RA19-GWD	Collected: 11-MAY-16 15:00 By: NR/TT		Received: 12-MAY-16 By: DDH			
JC20098-5	SW846 8270D	13-MAY-16 13:26	BP	12-MAY-16	SD	AB8270SL
JC20098-5	SW846 8270D	13-MAY-16 14:54	BP	12-MAY-16	SD	AB8270SL
JC20098-5	SW846 8270D BY SIM	13-MAY-16 15:28	AD	12-MAY-16	RF	BSIM + NAP
JC20098-5	SW846 8081B	16-MAY-16 10:46	RK	13-MAY-16	SD	P8081PESTTCL
JC20098-5	SW846-8015C (DAI)	16-MAY-16 22:26	XPL			D8015LMA

SGS Accutest Internal Chain of Custody

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Received: 05/12/16

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JC20098-1.1	Secured Storage	Nicholas Goydish	05/12/16 14:51	Retrieve from Storage
JC20098-1.1	Nicholas Goydish	Greg Mayer	05/12/16 15:22	Custody Transfer
JC20098-1.1	Greg Mayer		05/12/16 22:46	Depleted
JC20098-1.1.1	Nicholas Goydish	Organics Prep	05/12/16 14:53	Extract from JC20098-1.1
JC20098-1.1.1	Organics Prep	Stephen Domke	05/12/16 23:00	Extract from JC20098-1.1
JC20098-1.1.1	Stephen Domke	Extract Storage	05/12/16 23:00	Return to Storage
JC20098-1.1.1	Extract Storage	Thomas Lally	05/13/16 10:12	Retrieve from Storage
JC20098-1.1.1	Thomas Lally	GC4G	05/13/16 10:12	Load on Instrument
JC20098-1.2	Secured Storage	Luis Villanueva	05/12/16 12:28	Retrieve from Storage
JC20098-1.2	Luis Villanueva	Secured Staging Area	05/12/16 12:28	Return to Storage
JC20098-1.2	Secured Staging Area	Nicholas Goydish	05/12/16 14:25	Retrieve from Storage
JC20098-1.2	Nicholas Goydish	Greg Mayer	05/12/16 15:22	Custody Transfer
JC20098-1.2	Greg Mayer		05/12/16 22:46	Depleted
JC20098-1.2.1	Nicholas Goydish	Organics Prep	05/12/16 14:31	Extract from JC20098-1.2
JC20098-1.2.1	Organics Prep	Stephen Domke	05/12/16 22:49	Extract from JC20098-1.2
JC20098-1.2.1	Stephen Domke	Extract Storage	05/12/16 22:49	Return to Storage
JC20098-1.2.1	Extract Storage	Brittany Piercy	05/13/16 12:10	Retrieve from Storage
JC20098-1.2.1	Brittany Piercy	GCMSF	05/13/16 12:11	Load on Instrument
JC20098-1.2.1	GCMSF	Brittany Piercy	05/19/16 10:41	Unload from Instrument
JC20098-1.2.1	Brittany Piercy	Extract Freezer	05/19/16 10:41	Return to Storage
JC20098-1.3	Secured Storage	Luis Villanueva	05/12/16 12:28	Retrieve from Storage
JC20098-1.3	Luis Villanueva	Secured Staging Area	05/12/16 12:28	Return to Storage
JC20098-1.3	Secured Staging Area	Nicholas Goydish	05/12/16 14:25	Retrieve from Storage
JC20098-1.3	Nicholas Goydish	Greg Mayer	05/12/16 15:22	Custody Transfer
JC20098-1.3	Greg Mayer		05/12/16 22:46	Depleted
JC20098-1.3.1	Nicholas Goydish	Organics Prep	05/12/16 14:31	Extract from JC20098-1.3
JC20098-1.3.1	Organics Prep	Stephen Domke	05/12/16 22:49	Extract from JC20098-1.3
JC20098-1.3.1	Stephen Domke	Extract Storage	05/12/16 22:49	Return to Storage
JC20098-1.3.1	Extract Storage	Brittany Piercy	05/13/16 12:10	Retrieve from Storage
JC20098-1.3.1	Brittany Piercy	GCMSF	05/13/16 12:11	Load on Instrument
JC20098-1.3.1	GCMSF	Brittany Piercy	05/19/16 10:41	Unload from Instrument
JC20098-1.3.1	Brittany Piercy	Extract Freezer	05/19/16 10:41	Return to Storage
JC20098-1.3.2	Nicholas Goydish	Organics Prep	05/12/16 14:54	Extract from JC20098-1.3
JC20098-1.3.2	Organics Prep	Stephen Domke	05/12/16 23:01	Extract from JC20098-1.3
JC20098-1.3.2	Stephen Domke	Extract Storage	05/12/16 23:01	Return to Storage
JC20098-1.3.2	Extract Storage	Humarah Bano	05/13/16 15:46	Retrieve from Storage
JC20098-1.3.2	Humarah Bano	Extract Storage	05/13/16 15:48	Return to Storage

SGS Accutest Internal Chain of Custody

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Received: 05/12/16

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JC20098-1.5	Secured Storage	Xu Liu	05/16/16 13:36	Retrieve from Storage
JC20098-1.5	Xu Liu	Secured Storage	05/16/16 13:54	Return to Storage
JC20098-2.1	Secured Storage	Todd Shoemaker	05/13/16 10:28	Retrieve from Storage
JC20098-2.1	Todd Shoemaker	Secured Staging Area	05/13/16 10:29	Return to Storage
JC20098-2.1	Secured Staging Area	Kruti Patel	05/13/16 11:51	Retrieve from Storage
JC20098-2.1	Kruti Patel	Secured Storage	05/13/16 15:03	Return to Storage
JC20098-2.1	Secured Storage	Sauvelson Auguste	05/15/16 06:13	Retrieve from Storage
JC20098-2.1	Sauvelson Auguste	Secured Storage	05/15/16 08:45	Return to Storage
JC20098-2.1	Secured Storage	Xu Liu	05/18/16 10:45	Retrieve from Storage
JC20098-2.1	Xu Liu	Secured Storage	05/18/16 14:09	Return to Storage
JC20098-2.1	Secured Storage	Sora Lynn Mathurin	05/20/16 09:20	Retrieve from Storage
JC20098-2.1	Sora Lynn Mathurin	Secured Storage	05/20/16 10:14	Return to Storage
JC20098-2.1.1	Sauvelson Auguste	Organics Prep	05/15/16 06:13	Extract from JC20098-2.1
JC20098-2.1.1	Organics Prep	Sauvelson Auguste	05/15/16 11:26	Extract from JC20098-2.1
JC20098-2.1.1	Sauvelson Auguste	Extract Storage	05/15/16 11:26	Return to Storage
JC20098-2.1.1	Extract Storage	Brittany Piercy	05/16/16 10:01	Retrieve from Storage
JC20098-2.1.1	Brittany Piercy	GCMSF	05/16/16 10:01	Load on Instrument
JC20098-2.1.1	GCMSF	Robert LaPosta	05/18/16 13:07	Unload from Instrument
JC20098-2.1.1	Robert LaPosta	Extract Freezer	05/18/16 13:08	Return to Storage
JC20098-2.1.1	Extract Freezer	Linsey Kirschmann	05/19/16 15:31	Retrieve from Storage
JC20098-2.1.1	Linsey Kirschmann	GCMS4P	05/19/16 15:31	Load on Instrument
JC20098-2.1.1	GCMS4P	Linsey Kirschmann	05/26/16 09:11	Unload from Instrument
JC20098-2.1.1	Linsey Kirschmann	Extract Freezer	05/26/16 09:11	Return to Storage
JC20098-2.1.2	Sora Lynn Mathurin	Organics Prep	05/20/16 09:20	Extract from JC20098-2.1
JC20098-2.1.2	Organics Prep	Seleb Pan	05/20/16 16:32	Extract from JC20098-2.1
JC20098-2.1.2	Seleb Pan	Extract Storage	05/20/16 16:32	Return to Storage
JC20098-2.1.2	Extract Storage	Sean Block	05/20/16 21:25	Retrieve from Storage
JC20098-2.1.2	Sean Block	GCMS2P	05/20/16 21:25	Load on Instrument
JC20098-2.1.2	GCMS2P	Robert LaPosta	05/24/16 15:17	Unload from Instrument
JC20098-2.1.2	Robert LaPosta	Extract Freezer	05/24/16 15:18	Return to Storage
JC20098-2.1.2	Extract Freezer	Linsey Kirschmann	05/24/16 17:13	Retrieve from Storage
JC20098-2.1.2	Linsey Kirschmann	GCMS4M	05/24/16 17:13	Load on Instrument
JC20098-2.1.2	GCMS4M	Linsey Kirschmann	05/25/16 09:35	Unload from Instrument
JC20098-2.1.2	Linsey Kirschmann	Extract Freezer	05/25/16 09:35	Return to Storage
JC20098-3.1	Secured Storage	Todd Shoemaker	05/13/16 10:28	Retrieve from Storage
JC20098-3.1	Todd Shoemaker	Secured Staging Area	05/13/16 10:29	Return to Storage
JC20098-3.1	Secured Staging Area	Kruti Patel	05/13/16 11:51	Retrieve from Storage
JC20098-3.1	Kruti Patel	Secured Storage	05/13/16 15:03	Return to Storage
JC20098-3.1	Secured Storage	Sauvelson Auguste	05/15/16 06:13	Retrieve from Storage
JC20098-3.1	Sauvelson Auguste	Secured Storage	05/15/16 08:45	Return to Storage

SGS Accutest Internal Chain of Custody

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Received: 05/12/16

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JC20098-3.1	Secured Storage	Xu Liu	05/18/16 10:45	Retrieve from Storage
JC20098-3.1	Xu Liu	Secured Storage	05/18/16 14:09	Return to Storage
JC20098-3.1	Secured Storage	Sora Lynn Mathurin	05/20/16 09:20	Retrieve from Storage
JC20098-3.1	Sora Lynn Mathurin	Secured Storage	05/20/16 10:14	Return to Storage
JC20098-3.1.1	Sauvelson Auguste	Organics Prep	05/15/16 06:13	Extract from JC20098-3.1
JC20098-3.1.1	Organics Prep	Sauvelson Auguste	05/15/16 11:26	Extract from JC20098-3.1
JC20098-3.1.1	Sauvelson Auguste	Extract Storage	05/15/16 11:26	Return to Storage
JC20098-3.1.1	Extract Storage	Brittany Piercy	05/16/16 10:01	Retrieve from Storage
JC20098-3.1.1	Brittany Piercy	GCMSF	05/16/16 10:01	Load on Instrument
JC20098-3.1.1	GCMSF	Robert LaPosta	05/18/16 13:07	Unload from Instrument
JC20098-3.1.1	Robert LaPosta	Extract Freezer	05/18/16 13:08	Return to Storage
JC20098-3.1.1	Extract Freezer	Linsey Kirschmann	05/19/16 15:31	Retrieve from Storage
JC20098-3.1.1	Linsey Kirschmann	GCMS4P	05/19/16 15:31	Load on Instrument
JC20098-3.1.1	GCMS4P	Linsey Kirschmann	05/26/16 09:11	Unload from Instrument
JC20098-3.1.1	Linsey Kirschmann	Extract Freezer	05/26/16 09:11	Return to Storage
JC20098-3.1.2	Sora Lynn Mathurin	Organics Prep	05/20/16 09:20	Extract from JC20098-3.1
JC20098-3.1.2	Organics Prep	Seleb Pan	05/20/16 16:32	Extract from JC20098-3.1
JC20098-3.1.2	Seleb Pan	Extract Storage	05/20/16 16:32	Return to Storage
JC20098-3.1.2	Extract Storage	Sean Block	05/20/16 21:25	Retrieve from Storage
JC20098-3.1.2	Sean Block	GCMS2P	05/20/16 21:25	Load on Instrument
JC20098-3.1.2	GCMS2P	Robert LaPosta	05/24/16 15:17	Unload from Instrument
JC20098-3.1.2	Robert LaPosta	Extract Freezer	05/24/16 15:18	Return to Storage
JC20098-3.1.2	Extract Freezer	Linsey Kirschmann	05/24/16 17:13	Retrieve from Storage
JC20098-3.1.2	Linsey Kirschmann	GCMS4M	05/24/16 17:13	Load on Instrument
JC20098-3.1.2	GCMS4M	Linsey Kirschmann	05/25/16 09:35	Unload from Instrument
JC20098-3.1.2	Linsey Kirschmann	Extract Freezer	05/25/16 09:35	Return to Storage
JC20098-4.1	Secured Storage	Luis Villanueva	05/12/16 12:28	Retrieve from Storage
JC20098-4.1	Luis Villanueva	Secured Staging Area	05/12/16 12:28	Return to Storage
JC20098-4.1	Secured Staging Area	Nicholas Goydish	05/12/16 14:25	Retrieve from Storage
JC20098-4.1	Nicholas Goydish	Greg Mayer	05/12/16 15:22	Custody Transfer
JC20098-4.1	Greg Mayer		05/12/16 22:46	Depleted
JC20098-4.1.1	Nicholas Goydish	Organics Prep	05/12/16 14:31	Extract from JC20098-4.1
JC20098-4.1.1	Organics Prep	Stephen Domke	05/12/16 22:49	Extract from JC20098-4.1
JC20098-4.1.1	Stephen Domke	Extract Storage	05/12/16 22:49	Return to Storage
JC20098-4.1.1	Extract Storage	Brittany Piercy	05/13/16 12:10	Retrieve from Storage
JC20098-4.1.1	Brittany Piercy	GCMSF	05/13/16 12:11	Load on Instrument
JC20098-4.1.1	GCMSF	Brittany Piercy	05/19/16 10:41	Unload from Instrument
JC20098-4.1.1	Brittany Piercy	Extract Freezer	05/19/16 10:41	Return to Storage
JC20098-4.2	Secured Storage	Nicholas Goydish	05/12/16 14:51	Retrieve from Storage

SGS Accutest Internal Chain of Custody

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Received: 05/12/16

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JC20098-4.2	Nicholas Goydish	Greg Mayer	05/12/16 15:22	Custody Transfer
JC20098-4.2	Greg Mayer		05/12/16 22:46	Depleted
JC20098-4.2.1	Nicholas Goydish	Organics Prep	05/12/16 14:53	Extract from JC20098-4.2
JC20098-4.2.1	Organics Prep	Stephen Domke	05/12/16 23:00	Extract from JC20098-4.2
JC20098-4.2.1	Stephen Domke	Extract Storage	05/12/16 23:00	Return to Storage
JC20098-4.2.1	Extract Storage	Thomas Lally	05/13/16 10:12	Retrieve from Storage
JC20098-4.2.1	Thomas Lally	GC4G	05/13/16 10:12	Load on Instrument
JC20098-4.3	Secured Storage	Luis Villanueva	05/12/16 12:28	Retrieve from Storage
JC20098-4.3	Luis Villanueva	Secured Staging Area	05/12/16 12:28	Return to Storage
JC20098-4.3	Secured Staging Area	Nicholas Goydish	05/12/16 14:25	Retrieve from Storage
JC20098-4.3	Nicholas Goydish	Greg Mayer	05/12/16 15:22	Custody Transfer
JC20098-4.3	Greg Mayer		05/12/16 22:46	Depleted
JC20098-4.3.1	Nicholas Goydish	Organics Prep	05/12/16 14:31	Extract from JC20098-4.3
JC20098-4.3.1	Organics Prep	Stephen Domke	05/12/16 22:49	Extract from JC20098-4.3
JC20098-4.3.1	Stephen Domke	Extract Storage	05/12/16 22:49	Return to Storage
JC20098-4.3.1	Extract Storage	Brittany Piercy	05/13/16 12:10	Retrieve from Storage
JC20098-4.3.1	Brittany Piercy	GCMSF	05/13/16 12:11	Load on Instrument
JC20098-4.3.1	GCMSF	Brittany Piercy	05/19/16 10:41	Unload from Instrument
JC20098-4.3.1	Brittany Piercy	Extract Freezer	05/19/16 10:41	Return to Storage
JC20098-4.3.2	Nicholas Goydish	Organics Prep	05/12/16 14:54	Extract from JC20098-4.3
JC20098-4.3.2	Organics Prep	Stephen Domke	05/12/16 23:01	Extract from JC20098-4.3
JC20098-4.3.2	Stephen Domke	Extract Storage	05/12/16 23:01	Return to Storage
JC20098-4.3.2	Extract Storage	Humarah Bano	05/13/16 15:46	Retrieve from Storage
JC20098-4.3.2	Humarah Bano	Extract Storage	05/13/16 15:48	Return to Storage
JC20098-4.5	Secured Storage	Xu Liu	05/16/16 13:36	Retrieve from Storage
JC20098-4.5	Xu Liu	Secured Storage	05/16/16 13:54	Return to Storage
JC20098-5.1	Secured Storage	Nicholas Goydish	05/12/16 14:51	Retrieve from Storage
JC20098-5.1	Nicholas Goydish	Greg Mayer	05/12/16 15:22	Custody Transfer
JC20098-5.1	Greg Mayer		05/12/16 22:46	Depleted
JC20098-5.1.1	Nicholas Goydish	Organics Prep	05/12/16 14:53	Extract from JC20098-5.1
JC20098-5.1.1	Organics Prep	Stephen Domke	05/12/16 23:00	Extract from JC20098-5.1
JC20098-5.1.1	Stephen Domke	Extract Storage	05/12/16 23:00	Return to Storage
JC20098-5.1.1	Extract Storage	Thomas Lally	05/13/16 10:12	Retrieve from Storage
JC20098-5.1.1	Thomas Lally	GC4G	05/13/16 10:12	Load on Instrument
JC20098-5.2	Secured Storage	Jennifer Voitovitch	05/13/16 17:07	Retrieve from Storage
JC20098-5.2	Jennifer Voitovitch	Secured Staging Area	05/13/16 17:07	Return to Storage

SGS Accutest Internal Chain of Custody

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Received: 05/12/16

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JC20098-5.2	Secured Staging Area	Allan Chung-yew	05/13/16 17:13	Retrieve from Storage
JC20098-5.2	Max Ponce		05/13/16 23:04	Depleted
Analyst unavailable for custody transfer.				
JC20098-5.2.1	Allan Chung-yew	Organics Prep	05/13/16 17:14	Extract from JC20098-5.2
JC20098-5.2.1	Organics Prep	Stephen Domke	05/13/16 21:24	Extract from JC20098-5.2
JC20098-5.2.1	Stephen Domke	Extract Storage	05/13/16 21:24	Return to Storage
JC20098-5.2.1	Extract Storage	Dhara Saparia	05/16/16 10:44	Retrieve from Storage
JC20098-5.2.1	Dhara Saparia	GC6G	05/16/16 10:44	Load on Instrument
JC20098-5.2.1	GC6G	Rebecca Krug	05/22/16 09:23	Unload from Instrument
JC20098-5.2.1	Rebecca Krug	Extract Freezer	05/22/16 09:23	Return to Storage
JC20098-5.3	Secured Storage	Luis Villanueva	05/12/16 12:28	Retrieve from Storage
JC20098-5.3	Luis Villanueva	Secured Staging Area	05/12/16 12:28	Return to Storage
JC20098-5.3	Secured Staging Area	Nicholas Goydish	05/12/16 14:25	Retrieve from Storage
JC20098-5.3	Nicholas Goydish	Greg Mayer	05/12/16 15:22	Custody Transfer
JC20098-5.3	Greg Mayer		05/12/16 22:46	Depleted
JC20098-5.3.1	Nicholas Goydish	Organics Prep	05/12/16 14:31	Extract from JC20098-5.3
JC20098-5.3.1	Organics Prep	Stephen Domke	05/12/16 22:49	Extract from JC20098-5.3
JC20098-5.3.1	Stephen Domke	Extract Storage	05/12/16 22:49	Return to Storage
JC20098-5.3.1	Extract Storage	Brittany Piercy	05/13/16 12:10	Retrieve from Storage
JC20098-5.3.1	Brittany Piercy	GCMSF	05/13/16 12:11	Load on Instrument
JC20098-5.3.1	GCMSF	Brittany Piercy	05/19/16 10:41	Unload from Instrument
JC20098-5.3.1	Brittany Piercy	Extract Freezer	05/19/16 10:41	Return to Storage
JC20098-5.3.2	Nicholas Goydish	Organics Prep	05/12/16 14:54	Extract from JC20098-5.3
JC20098-5.3.2	Organics Prep	Stephen Domke	05/12/16 23:01	Extract from JC20098-5.3
JC20098-5.3.2	Stephen Domke	Extract Storage	05/12/16 23:01	Return to Storage
JC20098-5.3.2	Extract Storage	Humarah Bano	05/13/16 15:46	Retrieve from Storage
JC20098-5.3.2	Humarah Bano	Extract Storage	05/13/16 15:48	Return to Storage
JC20098-5.5	Secured Storage	Xu Liu	05/16/16 13:36	Retrieve from Storage
JC20098-5.5	Xu Liu	Secured Storage	05/16/16 13:54	Return to Storage

GC/MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93867-MB1	F157064.D	1	05/13/16	BP	05/12/16	OP93867	EF6610

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

JC20098-1, JC20098-4, JC20098-5

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	0.82	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	0.89	ug/l	
120-83-2	2,4-Dichlorophenol	ND	2.0	1.3	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	2.4	ug/l	
51-28-5	2,4-Dinitrophenol	ND	10	1.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	5.0	1.3	ug/l	
95-48-7	2-Methylphenol	ND	2.0	0.89	ug/l	
	3&4-Methylphenol	ND	2.0	0.88	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	0.96	ug/l	
100-02-7	4-Nitrophenol	ND	10	1.2	ug/l	
87-86-5	Pentachlorophenol	ND	5.0	1.4	ug/l	
108-95-2	Phenol	ND	2.0	0.39	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	1.5	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	1.3	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.92	ug/l	
83-32-9	Acenaphthene	ND	1.0	0.19	ug/l	
208-96-8	Acenaphthylene	ND	1.0	0.14	ug/l	
98-86-2	Acetophenone	ND	2.0	0.21	ug/l	
120-12-7	Anthracene	ND	1.0	0.21	ug/l	
1912-24-9	Atrazine	ND	2.0	0.45	ug/l	
100-52-7	Benzaldehyde	ND	5.0	0.29	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.0	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.0	0.21	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.0	0.21	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.0	0.34	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.0	0.21	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.40	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.46	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.0	0.21	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.0	0.24	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.34	ug/l	
86-74-8	Carbazole	ND	1.0	0.23	ug/l	
105-60-2	Caprolactam	ND	2.0	0.65	ug/l	
218-01-9	Chrysene	ND	1.0	0.18	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.28	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.25	ug/l	

Method Blank Summary

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93867-MB1	F157064.D	1	05/13/16	BP	05/12/16	OP93867	EF6610

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

JC20098-1, JC20098-4, JC20098-5

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.0	0.40	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.37	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	1.0	0.55	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	1.0	0.48	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	2.0	0.51	ug/l	
123-91-1	1,4-Dioxane	ND	1.0	0.66	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.0	0.33	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.22	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.0	0.50	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.23	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	0.26	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.22	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	1.7	ug/l	
206-44-0	Fluoranthene	ND	1.0	0.17	ug/l	
86-73-7	Fluorene	ND	1.0	0.17	ug/l	
118-74-1	Hexachlorobenzene	ND	1.0	0.33	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	0.49	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	2.8	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.39	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.0	0.33	ug/l	
78-59-1	Isophorone	ND	2.0	0.28	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.0	0.26	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	0.21	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	0.28	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.39	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.44	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.64	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.48	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.22	ug/l	
85-01-8	Phenanthrene	ND	1.0	0.18	ug/l	
129-00-0	Pyrene	ND	1.0	0.22	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.0	0.37	ug/l	

Method Blank Summary

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93867-MB1	F157064.D	1	05/13/16	BP	05/12/16	OP93867	EF6610

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

JC20098-1, JC20098-4, JC20098-5

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	44%	14-88%
4165-62-2	Phenol-d5	30%	10-110%
118-79-6	2,4,6-Tribromophenol	92%	39-149%
4165-60-0	Nitrobenzene-d5	81%	32-128%
321-60-8	2-Fluorobiphenyl	68%	35-119%
1718-51-0	Terphenyl-d14	85%	10-126%

Method Blank Summary

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94085-MB1	2P59404.D	1	05/20/16	SB	05/20/16	OP94085	E2P2594

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

JC20098-2, JC20098-3

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	67	23	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	30	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	33	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	80	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	170	130	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	170	49	ug/kg	
95-48-7	2-Methylphenol	ND	67	38	ug/kg	
	3&4-Methylphenol	ND	67	38	ug/kg	
88-75-5	2-Nitrophenol	ND	170	29	ug/kg	
100-02-7	4-Nitrophenol	ND	330	93	ug/kg	
87-86-5	Pentachlorophenol	ND	170	28	ug/kg	
108-95-2	Phenol	ND	67	26	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	170	43	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	48	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	37	ug/kg	
83-32-9	Acenaphthene	ND	33	6.3	ug/kg	
208-96-8	Acenaphthylene	ND	33	4.6	ug/kg	
98-86-2	Acetophenone	ND	170	17	ug/kg	
120-12-7	Anthracene	ND	33	14	ug/kg	
1912-24-9	Atrazine	ND	67	11	ug/kg	
56-55-3	Benzo(a)anthracene	ND	33	5.1	ug/kg	
50-32-8	Benzo(a)pyrene	ND	33	8.2	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	33	7.0	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	33	8.9	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	33	9.5	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	67	15	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	67	19	ug/kg	
92-52-4	1,1'-Biphenyl	ND	67	9.4	ug/kg	
100-52-7	Benzaldehyde	ND	170	8.1	ug/kg	
91-58-7	2-Chloronaphthalene	ND	67	6.3	ug/kg	
106-47-8	4-Chloroaniline	ND	170	9.5	ug/kg	
86-74-8	Carbazole	ND	67	6.5	ug/kg	
105-60-2	Caprolactam	ND	67	24	ug/kg	
218-01-9	Chrysene	ND	33	8.5	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	67	7.0	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	67	19	ug/kg	

Method Blank Summary

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94085-MB1	2P59404.D	1	05/20/16	SB	05/20/16	OP94085	E2P2594

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

JC20098-2, JC20098-3

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	67	13	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	67	8.9	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	33	12	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	33	10	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	67	45	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	33	13	ug/kg	
132-64-9	Dibenzofuran	ND	67	6.0	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	67	21	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	67	21	ug/kg	
84-66-2	Diethyl phthalate	ND	67	7.5	ug/kg	
131-11-3	Dimethyl phthalate	ND	67	6.8	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	67	7.3	ug/kg	
206-44-0	Fluoranthene	ND	33	15	ug/kg	
86-73-7	Fluorene	ND	33	13	ug/kg	
118-74-1	Hexachlorobenzene	ND	67	8.4	ug/kg	
87-68-3	Hexachlorobutadiene	ND	33	13	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	330	20	ug/kg	
67-72-1	Hexachloroethane	ND	170	25	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	33	11	ug/kg	
78-59-1	Isophorone	ND	67	7.4	ug/kg	
90-12-0	1-Methylnaphthalene	ND	67	5.9	ug/kg	
91-57-6	2-Methylnaphthalene	ND	67	27	ug/kg	
88-74-4	2-Nitroaniline	ND	170	24	ug/kg	
99-09-2	3-Nitroaniline	ND	170	12	ug/kg	
100-01-6	4-Nitroaniline	ND	170	13	ug/kg	
98-95-3	Nitrobenzene	ND	67	15	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	67	15	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	19	ug/kg	
85-01-8	Phenanthrene	ND	33	8.0	ug/kg	
129-00-0	Pyrene	ND	33	5.8	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	170	7.5	ug/kg	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	70%	30-106%

Method Blank Summary

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94085-MB1	2P59404.D	1	05/20/16	SB	05/20/16	OP94085	E2P2594

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

JC20098-2, JC20098-3

CAS No.	Surrogate Recoveries		Limits
4165-62-2	Phenol-d5	74%	30-106%
118-79-6	2,4,6-Tribromophenol	98%	24-140%
4165-60-0	Nitrobenzene-d5	115%	26-122%
321-60-8	2-Fluorobiphenyl	98%	36-112%
1718-51-0	Terphenyl-d14	92%	36-132%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	2.94	450	ug/kg	J
	system artifact	3.28	330	ug/kg	J
	system artifact/aldol-condensation	3.36	160	ug/kg	J
	Total TIC, Semi-Volatile		0	ug/kg	

Method Blank Summary

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94085-MB1	6P26349.D	1	05/25/16	AC	05/20/16	OP94085	E6P1227

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

JC20098-2, JC20098-3

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	67	16	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	20	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	28	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	59	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	170	130	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	170	36	ug/kg	
95-48-7	2-Methylphenol	ND	67	21	ug/kg	
	3&4-Methylphenol	ND	67	27	ug/kg	
88-75-5	2-Nitrophenol	ND	170	22	ug/kg	
100-02-7	4-Nitrophenol	ND	330	89	ug/kg	
87-86-5	Pentachlorophenol	ND	170	31	ug/kg	
108-95-2	Phenol	ND	67	17	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	170	22	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	25	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	20	ug/kg	
83-32-9	Acenaphthene	ND	33	11	ug/kg	
208-96-8	Acenaphthylene	ND	33	17	ug/kg	
98-86-2	Acetophenone	ND	170	7.2	ug/kg	
120-12-7	Anthracene	ND	33	20	ug/kg	
1912-24-9	Atrazine	ND	67	14	ug/kg	
56-55-3	Benzo(a)anthracene	ND	33	9.4	ug/kg	
50-32-8	Benzo(a)pyrene	ND	33	15	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	33	15	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	33	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	33	16	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	67	13	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	67	8.1	ug/kg	
92-52-4	1,1'-Biphenyl	ND	67	4.6	ug/kg	
100-52-7	Benzaldehyde	ND	170	8.3	ug/kg	
91-58-7	2-Chloronaphthalene	ND	67	7.9	ug/kg	
106-47-8	4-Chloroaniline	ND	170	12	ug/kg	
86-74-8	Carbazole	ND	67	4.8	ug/kg	
105-60-2	Caprolactam	ND	67	13	ug/kg	
218-01-9	Chrysene	ND	33	10	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	67	7.1	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	67	14	ug/kg	

Method Blank Summary

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94085-MB1	6P26349.D	1	05/25/16	AC	05/20/16	OP94085	E6P1227

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

JC20098-2, JC20098-3

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	67	12	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	67	11	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	33	10	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	33	17	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	67	28	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	33	15	ug/kg	
132-64-9	Dibenzofuran	ND	67	14	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	67	5.4	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	67	8.3	ug/kg	
84-66-2	Diethyl phthalate	ND	67	7.1	ug/kg	
131-11-3	Dimethyl phthalate	ND	67	5.9	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	67	7.8	ug/kg	
206-44-0	Fluoranthene	ND	33	15	ug/kg	
86-73-7	Fluorene	ND	33	15	ug/kg	
118-74-1	Hexachlorobenzene	ND	67	8.4	ug/kg	
87-68-3	Hexachlorobutadiene	ND	33	13	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	330	13	ug/kg	
67-72-1	Hexachloroethane	ND	170	16	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	33	16	ug/kg	
78-59-1	Isophorone	ND	67	7.1	ug/kg	
90-12-0	1-Methylnaphthalene	ND	67	6.5	ug/kg	
91-57-6	2-Methylnaphthalene	ND	67	7.5	ug/kg	
88-74-4	2-Nitroaniline	ND	170	7.9	ug/kg	
99-09-2	3-Nitroaniline	ND	170	8.3	ug/kg	
100-01-6	4-Nitroaniline	ND	170	8.6	ug/kg	
98-95-3	Nitrobenzene	ND	67	13	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	67	9.6	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	12	ug/kg	
85-01-8	Phenanthrene	ND	33	11	ug/kg	
129-00-0	Pyrene	ND	33	11	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	170	8.5	ug/kg	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	79%	30-106%

Method Blank Summary

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94085-MB1	6P26349.D	1	05/25/16	AC	05/20/16	OP94085	E6P1227

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

JC20098-2, JC20098-3

CAS No.	Surrogate Recoveries		Limits
4165-62-2	Phenol-d5	78%	30-106%
118-79-6	2,4,6-Tribromophenol	73%	24-140%
4165-60-0	Nitrobenzene-d5	84%	26-122%
321-60-8	2-Fluorobiphenyl	90%	36-112%
1718-51-0	Terphenyl-d14	87%	36-132%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	3.17	480	ug/kg	J
	system artifact	3.47	330	ug/kg	J
	system artifact/aldol-condensation	3.54	180	ug/kg	J
	Internal standard added for SIM test	6.75	140	ug/kg	J
	Internal standard added for SIM test	8.74	140	ug/kg	J
	Total TIC, Semi-Volatile		0	ug/kg	

Method Blank Summary

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93867A-MB1	3M61311.D	1	05/13/16	AD	05/12/16	OP93867A	E3M2882

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

JC20098-1, JC20098-4, JC20098-5

CAS No.	Compound	Result	RL	MDL	Units	Q
91-20-3	Naphthalene	ND	0.10	0.029	ug/l	
123-91-1	1,4-Dioxane	ND	0.10	0.049	ug/l	

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	71%	24-125%
321-60-8	2-Fluorobiphenyl	70%	19-127%
1718-51-0	Terphenyl-d14	106%	10-119%

Method Blank Summary

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94085A-MB1	4M65501.D	1	05/24/16	LK	05/20/16	OP94085A	E4M2931

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

JC20098-2, JC20098-3

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	3.3	0.67	ug/kg	
91-20-3	Naphthalene	ND	3.3	0.41	ug/kg	

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	125%	15-138%
321-60-8	2-Fluorobiphenyl	122%	12-148%
1718-51-0	Terphenyl-d14	126%	10-157%

Blank Spike Summary

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93867-BS1	F157065.D	1	05/13/16	BP	05/12/16	OP93867	EF6610

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

JC20098-1, JC20098-4, JC20098-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
95-57-8	2-Chlorophenol	50	33.9	68	48-106
59-50-7	4-Chloro-3-methyl phenol	50	38.4	77	49-113
120-83-2	2,4-Dichlorophenol	50	31.5	63	49-111
105-67-9	2,4-Dimethylphenol	50	38.5	77	42-117
51-28-5	2,4-Dinitrophenol	100	84.1	84	37-132
534-52-1	4,6-Dinitro-o-cresol	50	45.3	91	49-119
95-48-7	2-Methylphenol	50	35.4	71	42-103
	3&4-Methylphenol	50	34.5	69	39-110
88-75-5	2-Nitrophenol	50	31.3	63	49-114
100-02-7	4-Nitrophenol	50	31.9	64	16-95
87-86-5	Pentachlorophenol	50	39.4	79	30-136
108-95-2	Phenol	50	19.5	39	10-110
58-90-2	2,3,4,6-Tetrachlorophenol	50	37.2	74	47-118
95-95-4	2,4,5-Trichlorophenol	50	36.4	73	55-116
88-06-2	2,4,6-Trichlorophenol	50	39.9	80	56-115
83-32-9	Acenaphthene	50	39.2	78	54-112
208-96-8	Acenaphthylene	50	37.0	74	49-99
98-86-2	Acetophenone	50	44.3	89	52-111
120-12-7	Anthracene	50	38.9	78	58-112
1912-24-9	Atrazine	50	45.0	90	62-134
100-52-7	Benzaldehyde	50	38.6	77	40-129
56-55-3	Benzo(a)anthracene	50	38.5	77	44-120
50-32-8	Benzo(a)pyrene	50	38.2	76	41-127
205-99-2	Benzo(b)fluoranthene	50	42.0	84	41-129
191-24-2	Benzo(g,h,i)perylene	50	41.2	82	34-128
207-08-9	Benzo(k)fluoranthene	50	40.8	82	42-122
101-55-3	4-Bromophenyl phenyl ether	50	40.6	81	54-121
85-68-7	Butyl benzyl phthalate	50	38.1	76	20-143
92-52-4	1,1'-Biphenyl	50	38.6	77	51-106
91-58-7	2-Chloronaphthalene	50	36.8	74	48-104
106-47-8	4-Chloroaniline	50	20.9	42	10-110
86-74-8	Carbazole	50	40.8	82	56-110
105-60-2	Caprolactam	50	9.4	19	10-110
218-01-9	Chrysene	50	38.1	76	45-125
111-91-1	bis(2-Chloroethoxy)methane	50	33.2	66	47-117
111-44-4	bis(2-Chloroethyl)ether	50	39.6	79	48-115

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93867-BS1	F157065.D	1	05/13/16	BP	05/12/16	OP93867	EF6610

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

JC20098-1, JC20098-4, JC20098-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
108-60-1	bis(2-Chloroisopropyl)ether	50	33.2	66	44-112
7005-72-3	4-Chlorophenyl phenyl ether	50	41.3	83	50-117
121-14-2	2,4-Dinitrotoluene	50	42.4	85	57-122
606-20-2	2,6-Dinitrotoluene	50	41.7	83	58-122
91-94-1	3,3'-Dichlorobenzidine	100	55.3	55	10-110
123-91-1	1,4-Dioxane	50	17.8	36	10-110
53-70-3	Dibenzo(a,h)anthracene	50	43.9	88	36-130
132-64-9	Dibenzofuran	50	39.6	79	55-108
84-74-2	Di-n-butyl phthalate	50	41.7	83	45-123
117-84-0	Di-n-octyl phthalate	50	39.7	79	37-144
84-66-2	Diethyl phthalate	50	40.9	82	23-130
131-11-3	Dimethyl phthalate	50	40.4	81	10-140
117-81-7	bis(2-Ethylhexyl)phthalate	50	38.1	76	36-138
206-44-0	Fluoranthene	50	40.8	82	58-116
86-73-7	Fluorene	50	42.1	84	57-113
118-74-1	Hexachlorobenzene	50	44.5	89	49-122
87-68-3	Hexachlorobutadiene	50	29.1	58	24-112
77-47-4	Hexachlorocyclopentadiene	100	58.5	59	14-119
67-72-1	Hexachloroethane	50	30.7	61	31-107
193-39-5	Indeno(1,2,3-cd)pyrene	50	41.8	84	34-128
78-59-1	Isophorone	50	39.5	79	52-119
90-12-0	1-Methylnaphthalene	50	33.8	68	46-103
91-57-6	2-Methylnaphthalene	50	32.8	66	45-107
88-74-4	2-Nitroaniline	50	51.4	103	51-127
99-09-2	3-Nitroaniline	50	27.5	55	10-110
100-01-6	4-Nitroaniline	50	36.6	73	50-112
98-95-3	Nitrobenzene	50	38.3	77	44-116
621-64-7	N-Nitroso-di-n-propylamine	50	45.0	90	49-117
86-30-6	N-Nitrosodiphenylamine	50	37.5	75	51-113
85-01-8	Phenanthrene	50	40.4	81	56-111
129-00-0	Pyrene	50	38.6	77	47-120
95-94-3	1,2,4,5-Tetrachlorobenzene	50	33.7	67	36-114

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93867-BS1	F157065.D	1	05/13/16	BP	05/12/16	OP93867	EF6610

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

JC20098-1, JC20098-4, JC20098-5

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	48%	14-88%
4165-62-2	Phenol-d5	36%	10-110%
118-79-6	2,4,6-Tribromophenol	92%	39-149%
4165-60-0	Nitrobenzene-d5	77%	32-128%
321-60-8	2-Fluorobiphenyl	75%	35-119%
1718-51-0	Terphenyl-d14	82%	10-126%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94085-BS1	2P59405.D	1	05/20/16	SB	05/20/16	OP94085	E2P2594

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

JC20098-2, JC20098-3

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
95-57-8	2-Chlorophenol	1670	1280	77	54-98
59-50-7	4-Chloro-3-methyl phenol	1670	1720	103	52-107
120-83-2	2,4-Dichlorophenol	1670	1540	92	53-105
105-67-9	2,4-Dimethylphenol	1670	1640	98	49-115
51-28-5	2,4-Dinitrophenol	3330	3090	93	30-127
534-52-1	4,6-Dinitro-o-cresol	1670	1590	95	41-114
95-48-7	2-Methylphenol	1670	1240	74	53-103
	3&4-Methylphenol	1670	1240	74	53-102
88-75-5	2-Nitrophenol	1670	1420	85	52-104
100-02-7	4-Nitrophenol	1670	2610	157* [a]	36-143
87-86-5	Pentachlorophenol	1670	863	52	29-128
108-95-2	Phenol	1670	1260	76	45-106
58-90-2	2,3,4,6-Tetrachlorophenol	1670	1440	86	47-113
95-95-4	2,4,5-Trichlorophenol	1670	1500	90	55-112
88-06-2	2,4,6-Trichlorophenol	1670	1530	92	57-108
83-32-9	Acenaphthene	1670	1430	86	60-108
208-96-8	Acenaphthylene	1670	1250	75	54-94
98-86-2	Acetophenone	1670	1540	92	53-110
120-12-7	Anthracene	1670	1300	78	59-109
1912-24-9	Atrazine	1670	1900	114	59-126
56-55-3	Benzo(a)anthracene	1670	1410	85	52-113
50-32-8	Benzo(a)pyrene	1670	1400	84	56-122
205-99-2	Benzo(b)fluoranthene	1670	1420	85	53-119
191-24-2	Benzo(g,h,i)perylene	1670	1360	82	48-117
207-08-9	Benzo(k)fluoranthene	1670	1360	82	52-115
101-55-3	4-Bromophenyl phenyl ether	1670	1640	98	58-114
85-68-7	Butyl benzyl phthalate	1670	1280	77	44-132
92-52-4	1,1'-Biphenyl	1670	1390	83	54-101
100-52-7	Benzaldehyde	1670	1340	80	39-117
91-58-7	2-Chloronaphthalene	1670	1310	79	54-103
106-47-8	4-Chloroaniline	1670	499	30	10-110
86-74-8	Carbazole	1670	1270	76	55-105
105-60-2	Caprolactam	1670	1380	83	42-111
218-01-9	Chrysene	1670	1240	74	51-119
111-91-1	bis(2-Chloroethoxy)methane	1670	1370	82	51-106
111-44-4	bis(2-Chloroethyl)ether	1670	1320	79	48-107

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94085-BS1	2P59405.D	1	05/20/16	SB	05/20/16	OP94085	E2P2594

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

JC20098-2, JC20098-3

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
108-60-1	bis(2-Chloroisopropyl)ether	1670	1210	73	46-103
7005-72-3	4-Chlorophenyl phenyl ether	1670	1840	110	54-112
121-14-2	2,4-Dinitrotoluene	1670	1740	104	56-116
606-20-2	2,6-Dinitrotoluene	1670	1550	93	56-115
91-94-1	3,3'-Dichlorobenzidine	3330	1620	49	22-103
53-70-3	Dibenzo(a,h)anthracene	1670	1460	88	49-118
132-64-9	Dibenzofuran	1670	1530	92	55-103
84-74-2	Di-n-butyl phthalate	1670	1420	85	56-117
117-84-0	Di-n-octyl phthalate	1670	1330	80	47-137
84-66-2	Diethyl phthalate	1670	1580	95	54-112
131-11-3	Dimethyl phthalate	1670	1490	89	56-108
117-81-7	bis(2-Ethylhexyl)phthalate	1670	1310	79	45-130
206-44-0	Fluoranthene	1670	1560	94	58-110
86-73-7	Fluorene	1670	1550	93	59-108
118-74-1	Hexachlorobenzene	1670	1510	91	55-114
87-68-3	Hexachlorobutadiene	1670	2050	123* [a]	44-118
77-47-4	Hexachlorocyclopentadiene	3330	3120	94	41-137
67-72-1	Hexachloroethane	1670	1670	100	50-107
193-39-5	Indeno(1,2,3-cd)pyrene	1670	1570	94	48-120
78-59-1	Isophorone	1670	1740	104	54-109
90-12-0	1-Methylnaphthalene	1670	1500	90	50-110
91-57-6	2-Methylnaphthalene	1670	1450	87	48-104
88-74-4	2-Nitroaniline	1670	1820	109	49-124
99-09-2	3-Nitroaniline	1670	645	39	22-110
100-01-6	4-Nitroaniline	1670	1110	67	50-107
98-95-3	Nitrobenzene	1670	1810	109* [b]	47-108
621-64-7	N-Nitroso-di-n-propylamine	1670	1570	94	49-106
86-30-6	N-Nitrosodiphenylamine	1670	1330	80	53-112
85-01-8	Phenanthrene	1670	1280	77	57-105
129-00-0	Pyrene	1670	1300	78	50-117
95-94-3	1,2,4,5-Tetrachlorobenzene	1670	1830	110* [b]	52-109

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	69%	30-106%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94085-BS1	2P59405.D	1	05/20/16	SB	05/20/16	OP94085	E2P2594

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

JC20098-2, JC20098-3

CAS No.	Surrogate Recoveries	BSP	Limits
4165-62-2	Phenol-d5	75%	30-106%
118-79-6	2,4,6-Tribromophenol	94%	24-140%
4165-60-0	Nitrobenzene-d5	110%	26-122%
321-60-8	2-Fluorobiphenyl	93%	36-112%
1718-51-0	Terphenyl-d14	88%	36-132%

(a) High percent recoveries and no associated positive found in the QC batch.
(b) Outside of in house control limits, but within reasonable method recovery limits.

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93867A-BS12	3M61298.D	1	05/13/16	AD	05/12/16	OP93867A	E3M2882

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

JC20098-1, JC20098-4, JC20098-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
91-20-3	Naphthalene	1	0.398	40	40-119
123-91-1	1,4-Dioxane	1	0.217	22	20-160

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	37%	24-125%
321-60-8	2-Fluorobiphenyl	33%	19-127%
1718-51-0	Terphenyl-d14	49%	10-119%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94085A-BS12	4M65502.D	1	05/24/16	LK	05/20/16	OP94085A	E4M2931

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

JC20098-2, JC20098-3

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
123-91-1	1,4-Dioxane	33.3	20.5	62	10-100
91-20-3	Naphthalene	33.3	39.9	120	35-142

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	125%	15-138%
321-60-8	2-Fluorobiphenyl	126%	12-148%
1718-51-0	Terphenyl-d14	139%	10-157%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93867-MS	F157069.D	1	05/13/16	BP	05/12/16	OP93867	EF6610
OP93867-MSD	F157070.D	1	05/13/16	BP	05/12/16	OP93867	EF6610
JC20098-1	F157066.D	1	05/13/16	BP	05/12/16	OP93867	EF6610

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

JC20098-1, JC20098-4, JC20098-5

CAS No.	Compound	JC20098-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
95-57-8	2-Chlorophenol	ND		123	75.8	61	123	87.2	71	14	49-110/20
59-50-7	4-Chloro-3-methyl phenol	ND		123	85.4	69	123	96.5	78	12	44-121/18
120-83-2	2,4-Dichlorophenol	ND		123	69.2	56	123	76.4	62	10	42-120/19
105-67-9	2,4-Dimethylphenol	ND		123	90.5	73	123	102	83	12	33-132/23
51-28-5	2,4-Dinitrophenol	ND		247	187	76	247	219	89	16	21-145/26
534-52-1	4,6-Dinitro-o-cresol	ND		123	104	84	123	125	101	18	25-134/27
95-48-7	2-Methylphenol	ND		123	86.5	70	123	99.1	80	14	47-112/18
	3&4-Methylphenol	ND		123	90.0	73	123	98.4	80	9	44-113/19
88-75-5	2-Nitrophenol	ND		123	70.4	57	123	77.6	63	10	45-118/20
100-02-7	4-Nitrophenol	ND		123	108	87	123	115	93	6	23-144/28
87-86-5	Pentachlorophenol	ND		123	86.9	70	123	104	84	18	25-151/25
108-95-2	Phenol	ND		123	75.6	61	123	79.2	64	5	22-100/22
58-90-2	2,3,4,6-Tetrachlorophenol	ND		123	83.4	68	123	98.3	80	16	44-122/21
95-95-4	2,4,5-Trichlorophenol	ND		123	81.0	66	123	94.2	76	15	51-124/20
88-06-2	2,4,6-Trichlorophenol	ND		123	92.7	75	123	104	84	11	53-120/21
83-32-9	Acenaphthene	ND		123	87.9	71	123	102	83	15	52-120/23
208-96-8	Acenaphthylene	ND		123	83.1	67	123	94.9	77	13	50-101/22
98-86-2	Acetophenone	ND		123	95.1	77	123	112	91	16	31-141/23
120-12-7	Anthracene	ND		123	85.8	69	123	103	83	18	54-117/22
1912-24-9	Atrazine	ND		123	104	84	123	119	96	13	42-152/23
100-52-7	Benzaldehyde	ND		123	81.9	66	123	97.7	79	18	10-164/30
56-55-3	Benzo(a)anthracene	ND		123	80.7	65	123	100	81	21	40-123/24
50-32-8	Benzo(a)pyrene	ND		123	80.4	65	123	100	81	22	41-127/25
205-99-2	Benzo(b)fluoranthene	ND		123	86.6	70	123	107	87	21	39-127/27
191-24-2	Benzo(g,h,i)perylene	ND		123	85.4	69	123	105	85	21	34-128/28
207-08-9	Benzo(k)fluoranthene	ND		123	86.4	70	123	109	88	23	39-122/26
101-55-3	4-Bromophenyl phenyl ether	ND		123	92.3	75	123	110	89	17	51-124/23
85-68-7	Butyl benzyl phthalate	ND		123	83.7	68	123	103	83	21	21-146/28
92-52-4	1,1'-Biphenyl	ND		123	85.5	69	123	98.7	80	14	27-142/23
91-58-7	2-Chloronaphthalene	ND		123	82.1	67	123	94.8	77	14	51-109/23
106-47-8	4-Chloroaniline	ND		123	57.1	46	123	53.3	43	7	10-110/55
86-74-8	Carbazole	ND		123	91.3	74	123	108	87	17	52-116/22
105-60-2	Caprolactam	ND		123	40.9	33	123	45.5	37	11	10-106/34
218-01-9	Chrysene	ND		123	77.4	63	123	97.8	79	23	41-128/24
111-91-1	bis(2-Chloroethoxy)methane	ND		123	72.6	59	123	81.1	66	11	46-120/24
111-44-4	bis(2-Chloroethyl)ether	ND		123	85.5	69	123	101	82	17	42-123/28

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93867-MS	F157069.D	1	05/13/16	BP	05/12/16	OP93867	EF6610
OP93867-MSD	F157070.D	1	05/13/16	BP	05/12/16	OP93867	EF6610
JC20098-1	F157066.D	1	05/13/16	BP	05/12/16	OP93867	EF6610

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

JC20098-1, JC20098-4, JC20098-5

CAS No.	Compound	JC20098-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
108-60-1	bis(2-Chloroisopropyl)ether	ND		123	69.9	57	123	81.1	66	15	41-117/25
7005-72-3	4-Chlorophenyl phenyl ether	ND		123	91.3	74	123	105	85	14	48-121/21
121-14-2	2,4-Dinitrotoluene	ND		123	91.7	74	123	110	89	18	54-123/27
606-20-2	2,6-Dinitrotoluene	ND		123	88.3	72	123	108	87	20	55-125/26
91-94-1	3,3'-Dichlorobenzidine	ND		247	141	57	247	163	66	14	10-107/47
123-91-1	1,4-Dioxane	1.5		123	56.7	45	123	59.8	47	5	10-119/31
53-70-3	Dibenzo(a,h)anthracene	ND		123	89.5	72	123	109	88	20	35-130/27
132-64-9	Dibenzofuran	ND		123	86.8	70	123	100	81	14	53-112/22
84-74-2	Di-n-butyl phthalate	ND		123	92.5	75	123	112	91	19	38-129/23
117-84-0	Di-n-octyl phthalate	ND		123	84.8	69	123	101	82	17	35-145/26
84-66-2	Diethyl phthalate	ND		123	92.1	75	123	107	87	15	16-136/30
131-11-3	Dimethyl phthalate	ND		123	91.2	74	123	105	85	14	10-143/39
117-81-7	bis(2-Ethylhexyl)phthalate	ND		123	80.9	66	123	100	81	21	34-141/28
206-44-0	Fluoranthene	ND		123	88.9	72	123	109	88	20	47-123/24
86-73-7	Fluorene	ND		123	92.4	75	123	109	88	16	56-117/22
118-74-1	Hexachlorobenzene	ND		123	98.6	80	123	116	94	16	46-125/24
87-68-3	Hexachlorobutadiene	ND		123	67.1	54	123	77.1	62	14	26-121/24
77-47-4	Hexachlorocyclopentadiene	ND		247	146	59	247	175	71	18	10-133/31
67-72-1	Hexachloroethane	ND		123	69.6	56	123	80.7	65	15	35-111/26
193-39-5	Indeno(1,2,3-cd)pyrene	ND		123	86.0	70	123	105	85	20	32-130/30
78-59-1	Isophorone	ND		123	87.9	71	123	98.8	80	12	47-126/23
90-12-0	1-Methylnaphthalene	ND		123	71.8	58	123	84.4	68	16	34-124/25
91-57-6	2-Methylnaphthalene	ND		123	72.6	59	123	81.5	66	12	34-123/24
88-74-4	2-Nitroaniline	ND		123	119	96	123	134	109	12	46-137/23
99-09-2	3-Nitroaniline	ND		123	71.5	58	123	73.7	60	3	10-110/50
100-01-6	4-Nitroaniline	ND		123	84.0	68	123	95.7	78	13	38-118/25
98-95-3	Nitrobenzene	ND		123	83.2	67	123	95.7	78	14	35-130/25
621-64-7	N-Nitroso-di-n-propylamine	ND		123	95.1	77	123	113	92	17	45-123/22
86-30-6	N-Nitrosodiphenylamine	ND		123	77.6	63	123	95.5	77	21	46-123/24
85-01-8	Phenanthrene	ND		123	89.4	72	123	105	85	16	48-121/23
129-00-0	Pyrene	ND		123	84.8	69	123	99.8	81	16	43-124/26
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		123	76.8	62	123	88.2	71	14	25-142/24

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93867-MS	F157069.D	1	05/13/16	BP	05/12/16	OP93867	EF6610
OP93867-MSD	F157070.D	1	05/13/16	BP	05/12/16	OP93867	EF6610
JC20098-1	F157066.D	1	05/13/16	BP	05/12/16	OP93867	EF6610

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

JC20098-1, JC20098-4, JC20098-5

CAS No.	Surrogate Recoveries	MS	MSD	JC20098-1	Limits
367-12-4	2-Fluorophenol	58%	61%	42%	14-88%
4165-62-2	Phenol-d5	54%	59%	31%	10-110%
118-79-6	2,4,6-Tribromophenol	88%	105%	100%	39-149%
4165-60-0	Nitrobenzene-d5	67%	78%	77%	32-128%
321-60-8	2-Fluorobiphenyl	70%	79%	70%	35-119%
1718-51-0	Terphenyl-d14	70%	86%	81%	10-126%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94085-MS	2P59422.D	1	05/21/16	SB	05/20/16	OP94085	E2P2594
OP94085-MSD	2P59423.D	1	05/21/16	SB	05/20/16	OP94085	E2P2594
JC20130-3 [a]	2P59420.D	1	05/21/16	SB	05/20/16	OP94085	E2P2594

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

JC20098-2, JC20098-3

CAS No.	Compound	JC20130-3 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		2090	1280	61	2100	1400	67	9	33-106/35
59-50-7	4-Chloro-3-methyl phenol	ND		2090	1660	79	2100	1990	95	18	27-124/34
120-83-2	2,4-Dichlorophenol	ND		2090	1510	72	2100	1740	83	14	25-122/34
105-67-9	2,4-Dimethylphenol	ND		2090	1250	60	2100	1990	95	46* [b]	23-133/34
51-28-5	2,4-Dinitrophenol	ND		4190	1900	45	4200	2290	55	19	10-110/51
534-52-1	4,6-Dinitro-o-cresol	ND		2090	1160	55	2100	1380	66	17	10-113/49
95-48-7	2-Methylphenol	ND		2090	1140	54	2100	1450	69	24	32-111/34
	3&4-Methylphenol	ND		2090	1230	59	2100	1420	68	14	32-113/34
88-75-5	2-Nitrophenol	ND		2090	1400	67	2100	1600	76	13	17-118/37
100-02-7	4-Nitrophenol	ND		2090	2590	124	2100	2950	140	13	14-154/39
87-86-5	Pentachlorophenol	ND		2090	732	35	2100	959	46	27	10-131/43
108-95-2	Phenol	ND		2090	1230	59	2100	1430	68	15	25-112/33
58-90-2	2,3,4,6-Tetrachlorophenol	ND		2090	1260	60	2100	1570	75	22	19-125/37
95-95-4	2,4,5-Trichlorophenol	ND		2090	1400	67	2100	1640	78	16	30-125/35
88-06-2	2,4,6-Trichlorophenol	ND		2090	1490	71	2100	1740	83	15	26-126/35
83-32-9	Acenaphthene	ND		2090	1450	69	2100	1580	75	9	34-125/36
208-96-8	Acenaphthylene	ND		2090	1280	61	2100	1370	65	7	28-113/34
98-86-2	Acetophenone	ND		2090	1640	78	2100	1760	84	7	26-120/34
120-12-7	Anthracene	ND		2090	1280	61	2100	1470	70	14	31-131/41
1912-24-9	Atrazine	ND		2090	1790	86	2100	2050	98	14	34-138/36
56-55-3	Benzo(a)anthracene	ND		2090	1330	64	2100	1630	78	20	23-136/43
50-32-8	Benzo(a)pyrene	ND		2090	1330	64	2100	1620	77	20	22-144/42
205-99-2	Benzo(b)fluoranthene	ND		2090	1340	64	2100	1590	76	17	18-145/43
191-24-2	Benzo(g,h,i)perylene	ND		2090	1290	62	2100	1510	72	16	20-138/43
207-08-9	Benzo(k)fluoranthene	ND		2090	1380	66	2100	1570	75	13	27-129/43
101-55-3	4-Bromophenyl phenyl ether	ND		2090	1610	77	2100	1920	91	18	39-124/33
85-68-7	Butyl benzyl phthalate	ND		2090	1240	59	2100	1410	67	13	27-143/35
92-52-4	1,1'-Biphenyl	ND		2090	1420	68	2100	1570	75	10	33-116/32
100-52-7	Benzaldehyde	ND		2090	1670	80	2100	1800	86	7	20-129/34
91-58-7	2-Chloronaphthalene	ND		2090	1370	65	2100	1490	71	8	38-110/32
106-47-8	4-Chloroaniline	ND		2090	522	25	2100	652	31	22	10-110/49
86-74-8	Carbazole	ND		2090	986	47	2100	1180	56	18	27-129/38
105-60-2	Caprolactam	ND		2090	1310	63	2100	1420	68	8	18-127/35
218-01-9	Chrysene	ND		2090	1270	61	2100	1490	71	16	21-142/43
111-91-1	bis(2-Chloroethoxy)methane	ND		2090	1400	67	2100	1540	73	10	32-116/33
111-44-4	bis(2-Chloroethyl)ether	ND		2090	1390	66	2100	1540	73	10	30-113/37

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94085-MS	2P59422.D	1	05/21/16	SB	05/20/16	OP94085	E2P2594
OP94085-MSD	2P59423.D	1	05/21/16	SB	05/20/16	OP94085	E2P2594
JC20130-3 [a]	2P59420.D	1	05/21/16	SB	05/20/16	OP94085	E2P2594

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

JC20098-2, JC20098-3

CAS No.	Compound	JC20130-3 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		2090	1240	59	2100	1400	67	12	28-110/33
7005-72-3	4-Chlorophenyl phenyl ether	ND		2090	1730	83	2100	1970	94	13	38-119/33
121-14-2	2,4-Dinitrotoluene	ND		2090	1640	78	2100	1870	89	13	28-126/36
606-20-2	2,6-Dinitrotoluene	ND		2090	1530	73	2100	1690	80	10	31-126/34
91-94-1	3,3'-Dichlorobenzidine	ND		4190	1640	39	4200	2090	50	24	10-115/44
53-70-3	Dibenzo(a,h)anthracene	ND		2090	1380	66	2100	1560	74	12	25-135/41
132-64-9	Dibenzofuran	ND		2090	1400	67	2100	1720	82	21	30-125/35
84-74-2	Di-n-butyl phthalate	ND		2090	1320	63	2100	1590	76	19	32-131/34
117-84-0	Di-n-octyl phthalate	ND		2090	1280	61	2100	1440	69	12	28-144/35
84-66-2	Diethyl phthalate	ND		2090	1510	72	2100	1740	83	14	35-124/32
131-11-3	Dimethyl phthalate	ND		2090	1490	71	2100	1640	78	10	36-121/33
117-81-7	bis(2-Ethylhexyl)phthalate	ND		2090	1320	63	2100	1460	70	10	25-146/35
206-44-0	Fluoranthene	ND		2090	1460	70	2100	1910	91	27	15-143/46
86-73-7	Fluorene	ND		2090	1500	72	2100	1740	83	15	30-129/37
118-74-1	Hexachlorobenzene	ND		2090	1520	73	2100	1730	82	13	34-125/34
87-68-3	Hexachlorobutadiene	ND		2090	2100	100	2100	2290	109	9	29-120/34
77-47-4	Hexachlorocyclopentadiene	ND		4190	1080	26	4200	1500	36	33	10-127/46
67-72-1	Hexachloroethane	ND		2090	1640	78	2100	1720	82	5	21-109/38
193-39-5	Indeno(1,2,3-cd)pyrene	ND		2090	1410	67	2100	1720	82	20	23-141/44
78-59-1	Isophorone	ND		2090	1800	86	2100	1950	93	8	31-124/32
90-12-0	1-Methylnaphthalene	ND		2090	1600	76	2100	1740	83	8	24-122/33
91-57-6	2-Methylnaphthalene	ND		2090	1460	70	2100	1710	81	16	21-125/33
88-74-4	2-Nitroaniline	ND		2090	1860	89	2100	2030	97	9	29-138/33
99-09-2	3-Nitroaniline	ND		2090	711	34	2100	861	41	19	12-112/38
100-01-6	4-Nitroaniline	ND		2090	768	37	2100	817	39	6	21-117/38
98-95-3	Nitrobenzene	ND		2090	1900	91	2100	2080	99	9	28-118/32
621-64-7	N-Nitroso-di-n-propylamine	ND		2090	1710	82	2100	1780	85	4	26-121/34
86-30-6	N-Nitrosodiphenylamine	ND		2090	1310	63	2100	1530	73	15	24-142/35
85-01-8	Phenanthrene	ND		2090	1330	64	2100	1630	78	20	14-144/44
129-00-0	Pyrene	ND		2090	1380	66	2100	1720	82	22	16-147/46
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		2090	1910	91	2100	2130	101	11	37-115/32

CAS No.	Surrogate Recoveries	MS	MSD	JC20130-3	Limits
367-12-4	2-Fluorophenol	52%	61%		30-106%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94085-MS	2P59422.D	1	05/21/16	SB	05/20/16	OP94085	E2P2594
OP94085-MSD	2P59423.D	1	05/21/16	SB	05/20/16	OP94085	E2P2594
JC20130-3 [a]	2P59420.D	1	05/21/16	SB	05/20/16	OP94085	E2P2594

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

JC20098-2, JC20098-3

CAS No.	Surrogate Recoveries	MS	MSD	JC20130-3	Limits
4165-62-2	Phenol-d5	59%	67%		30-106%
118-79-6	2,4,6-Tribromophenol	69%	84%		24-140%
4165-60-0	Nitrobenzene-d5	93%	98%		26-122%
321-60-8	2-Fluorobiphenyl	73%	83%		36-112%
1718-51-0	Terphenyl-d14	70%	82%		36-132%

(a) Sample used for QC purposes only.
(b) Outside of in house control limits.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93867A-MS	3M61299.D	1	05/13/16	AD	05/12/16	OP93867A	E3M2882
OP93867A-MSD	3M61300.D	1	05/13/16	AD	05/12/16	OP93867A	E3M2882
JC20098-4	3M61313.D	1	05/13/16	AD	05/12/16	OP93867A	E3M2882

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

JC20098-1, JC20098-4, JC20098-5

CAS No.	Compound	JC20098-4 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
91-20-3	Naphthalene	ND		2.11	0.909	43	2.11	0.853	41	6	23-140/36
123-91-1	1,4-Dioxane	35.5	E	2.11	29.7	-276* [a]	2.11	18.8	-793* [a]	45* [b]	20-160/30

CAS No.	Surrogate Recoveries	MS	MSD	JC20098-4	Limits
4165-60-0	Nitrobenzene-d5	43%	40%	66%	24-125%
321-60-8	2-Fluorobiphenyl	39%	38%	76%	19-127%
1718-51-0	Terphenyl-d14	47%	48%	95%	10-119%

(a) Outside control limits due to high level in sample relative to spike amount.
(b) Outside of in house control limits.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94085A-MS	4M65503.D	1	05/24/16	LK	05/20/16	OP94085A	E4M2931
OP94085A-MSD	4M65504.D	1	05/24/16	LK	05/20/16	OP94085A	E4M2931
JC20560-7Q	4M65630.D	1	05/31/16	LK	05/20/16	OP94085A	E4M2942

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

JC20098-2, JC20098-3

CAS No.	Compound	JC20560-7Q ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
123-91-1	1,4-Dioxane	5.25		38.1	23.8	62	35.4	25.1	71	5	50-150/30
91-20-3	Naphthalene	132		38.1	587	1194* [a]	35.4	391	733* [a]	40* [b]	10-190/36

CAS No.	Surrogate Recoveries	MS	MSD	JC20560-7Q	Limits
4165-60-0	Nitrobenzene-d5	106%	118%	59%	15-138%
321-60-8	2-Fluorobiphenyl	107%	116%	70%	12-148%
1718-51-0	Terphenyl-d14	131%	133%	63%	10-157%

(a) Outside control limits due to high level in sample relative to spike amount.
(b) Outside control limits due to matrix interference.

* = Outside of Control Limits.

Instrument Performance Check (DFTPP)

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E2P2547-DFTPP
Lab File ID: 2P58363.D
Instrument ID: GCMS2P
Injection Date: 04/19/16
Injection Time: 15:12

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	31943	49.9		Pass
68	Less than 2.0% of mass 69	547	0.85	(1.87) [a]	Pass
69	Mass 69 relative abundance	29233	45.6		Pass
70	Less than 2.0% of mass 69	136	0.21	(0.47) [a]	Pass
127	40.0 - 60.0% of mass 198	32846	51.3		Pass
197	Less than 1.0% of mass 198	212	0.33		Pass
198	Base peak, 100% relative abundance	64058	100.0		Pass
199	5.0 - 9.0% of mass 198	4365	6.81		Pass
275	10.0 - 30.0% of mass 198	14145	22.1		Pass
365	1.0 - 100.0% of mass 198	1814	2.83		Pass
441	Present, but less than mass 443	6462	10.1	(81.6) [b]	Pass
442	40.0 - 100.0% of mass 198	42236	65.9		Pass
443	17.0 - 23.0% of mass 442	7923	12.4	(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
E2P2547-ICC2547	2P58365.D	04/19/16	16:33	01:21	Initial cal 50
E2P2547-IC2547	2P58366.D	04/19/16	16:57	01:45	Initial cal 25
E2P2547-IC2547	2P58367.D	04/19/16	17:21	02:09	Initial cal 80
E2P2547-IC2547	2P58368.D	04/19/16	17:45	02:33	Initial cal 10
E2P2547-IC2547	2P58369.D	04/19/16	18:09	02:57	Initial cal 100
E2P2547-IC2547	2P58370.D	04/19/16	18:33	03:21	Initial cal 5
E2P2547-IC2547	2P58371.D	04/19/16	18:57	03:45	Initial cal 2
E2P2547-IC2547	2P58372.D	04/19/16	19:21	04:09	Initial cal 1

Instrument Performance Check (DFTPP)

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E2P2548-DFTPP
Lab File ID: 2P58373.D
Instrument ID: GCMS2P
Injection Date: 04/19/16
Injection Time: 19:47

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	45494	47.2		Pass
68	Less than 2.0% of mass 69	713	0.74	(1.66) [a]	Pass
69	Mass 69 relative abundance	42984	44.6		Pass
70	Less than 2.0% of mass 69	141	0.15	(0.33) [a]	Pass
127	40.0 - 60.0% of mass 198	47459	49.2		Pass
197	Less than 1.0% of mass 198	230	0.24		Pass
198	Base peak, 100% relative abundance	96445	100.0		Pass
199	5.0 - 9.0% of mass 198	6569	6.81		Pass
275	10.0 - 30.0% of mass 198	19621	20.3		Pass
365	1.0 - 100.0% of mass 198	2274	2.36		Pass
441	Present, but less than mass 443	9130	9.47	(88.4) [b]	Pass
442	40.0 - 100.0% of mass 198	55443	57.5		Pass
443	17.0 - 23.0% of mass 442	10326	10.7	(18.6) [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
E2P2548-IC2548	2P58374.D	04/19/16	20:00	00:13	Initial cal 100
E2P2548-IC2548	2P58375.D	04/19/16	20:24	00:37	Initial cal 80
E2P2548-ICC2548	2P58376.D	04/19/16	20:47	01:00	Initial cal 50
E2P2548-IC2548	2P58377.D	04/19/16	21:11	01:24	Initial cal 25
E2P2548-IC2548	2P58378.D	04/19/16	21:34	01:47	Initial cal 10
E2P2548-IC2548	2P58379.D	04/19/16	21:57	02:10	Initial cal 5
E2P2548-IC2548	2P58380.D	04/19/16	22:21	02:34	Initial cal 2
E2P2548-IC2548	2P58381.D	04/19/16	22:44	02:57	Initial cal 1
E2P2548-ICV2547	2P58384.D	04/19/16	23:51	04:04	Initial cal verification 50
E2P2548-ICV2547	2P58385.D	04/20/16	00:14	04:27	Initial cal verification 50
E2P2548-ICV2548	2P58385A.D	04/20/16	00:14	04:27	Initial cal verification 50
E2P2548-ICV2547	2P58386.D	04/20/16	00:36	04:49	Initial cal verification 50
E2P2548-ICV2548	2P58386A.D	04/20/16	00:36	04:49	Initial cal verification 50
E2P2548-ICV2548	2P58387.D	04/20/16	00:59	05:12	Initial cal verification 50
E2P2548-ICV2548	2P58388A.D	04/20/16	01:21	05:34	Initial cal verification 50
E2P2548-ICV2547	2P58388.D	04/20/16	01:21	05:34	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E2P2549-DFTPP
Lab File ID: 2P58390.D
Instrument ID: GCMS2P
Injection Date: 04/20/16
Injection Time: 09:38

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	41165	43.0		Pass
68	Less than 2.0% of mass 69	692	0.72	(1.70) [a]	Pass
69	Mass 69 relative abundance	40655	42.5		Pass
70	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
127	40.0 - 60.0% of mass 198	47048	49.2		Pass
197	Less than 1.0% of mass 198	453	0.47		Pass
198	Base peak, 100% relative abundance	95659	100.0		Pass
199	5.0 - 9.0% of mass 198	6243	6.53		Pass
275	10.0 - 30.0% of mass 198	19408	20.3		Pass
365	1.0 - 100.0% of mass 198	2357	2.46		Pass
441	Present, but less than mass 443	8730	9.13	(88.9) [b]	Pass
442	40.0 - 100.0% of mass 198	53344	55.8		Pass
443	17.0 - 23.0% of mass 442	9817	10.3	(18.4) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

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

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E2P2549-ICV2547	2P58391.D	04/20/16	09:53	00:15	Initial cal verification 50
E2P2549-ICV2547	2P58392.D	04/20/16	10:16	00:38	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E2P2557-DFTPP
Lab File ID: 2P58524.D
Instrument ID: GCMS2P
Injection Date: 04/25/16
Injection Time: 10:05

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	43762	54.7		Pass
68	Less than 2.0% of mass 69	674	0.84	(1.76) [a]	Pass
69	Mass 69 relative abundance	38345	47.9		Pass
70	Less than 2.0% of mass 69	253	0.32	(0.66) [a]	Pass
127	40.0 - 60.0% of mass 198	42416	53.0		Pass
197	Less than 1.0% of mass 198	310	0.39		Pass
198	Base peak, 100% relative abundance	80032	100.0		Pass
199	5.0 - 9.0% of mass 198	5598	6.99		Pass
275	10.0 - 30.0% of mass 198	16142	20.2		Pass
365	1.0 - 100.0% of mass 198	2008	2.51		Pass
441	Present, but less than mass 443	6849	8.56	(83.3) [b]	Pass
442	40.0 - 100.0% of mass 198	44268	55.3		Pass
443	17.0 - 23.0% of mass 442	8219	10.3	(18.6) [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
E2P2557-ICC2557	2P58525.D	04/25/16	10:22	00:17	Initial cal 50
E2P2557-IC2557	2P58526.D	04/25/16	10:45	00:40	Initial cal 25
E2P2557-IC2557	2P58527.D	04/25/16	11:08	01:03	Initial cal 80
E2P2557-IC2557	2P58528.D	04/25/16	11:31	01:26	Initial cal 10
E2P2557-IC2557	2P58529.D	04/25/16	11:54	01:49	Initial cal 100
E2P2557-IC2557	2P58530.D	04/25/16	12:17	02:12	Initial cal 5
E2P2557-IC2557	2P58531.D	04/25/16	12:41	02:36	Initial cal 1
E2P2557-IC2557	2P58532.D	04/25/16	13:04	02:59	Initial cal 2
E2P2557-ICV2557	2P58534.D	04/25/16	13:51	03:46	Initial cal verification 50
E2P2557-ICV2557	2P58536A.D	04/25/16	16:09	06:04	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E2P2559-DFTPP
Lab File ID: 2P58539.D
Instrument ID: GCMS2P
Injection Date: 04/25/16
Injection Time: 18:47

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	33509	49.3		Pass
68	Less than 2.0% of mass 69	538	0.79	(1.82) [a]	Pass
69	Mass 69 relative abundance	29576	43.5		Pass
70	Less than 2.0% of mass 69	268	0.39	(0.91) [a]	Pass
127	40.0 - 60.0% of mass 198	33250	48.9		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	67974	100.0		Pass
199	5.0 - 9.0% of mass 198	4549	6.69		Pass
275	10.0 - 30.0% of mass 198	15471	22.8		Pass
365	1.0 - 100.0% of mass 198	2159	3.18		Pass
441	Present, but less than mass 443	7370	10.8	(86.6) [b]	Pass
442	40.0 - 100.0% of mass 198	44954	66.1		Pass
443	17.0 - 23.0% of mass 442	8506	12.5	(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
E2P2559-ICV2557	2P58540.D	04/25/16	18:59	00:12	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E2P2594-DFTPP
Lab File ID: 2P59400.D
Instrument ID: GCMS2P
Injection Date: 05/20/16
Injection Time: 18:56

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	66710	53.3		Pass
68	Less than 2.0% of mass 69	1274	1.02	(1.54) [a]	Pass
69	Mass 69 relative abundance	82490	65.9		Pass
70	Less than 2.0% of mass 69	408	0.33	(0.49) [a]	Pass
127	40.0 - 60.0% of mass 198	66677	53.3		Pass
197	Less than 1.0% of mass 198	309	0.25		Pass
198	Base peak, 100% relative abundance	125179	100.0		Pass
199	5.0 - 9.0% of mass 198	7713	6.16		Pass
275	10.0 - 30.0% of mass 198	24675	19.7		Pass
365	1.0 - 100.0% of mass 198	1840	1.47		Pass
441	Present, but less than mass 443	12889	10.3	(82.2) [b]	Pass
442	40.0 - 100.0% of mass 198	75395	60.2		Pass
443	17.0 - 23.0% of mass 442	15682	12.5	(20.8) [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
E2P2594-CC2547	2P59401A.D	05/20/16	19:37	00:41	Continuing cal 25
E2P2594-CC2557	2P59402.D	05/20/16	20:00	01:04	Continuing cal 25
OP94085-MB1	2P59404.D	05/20/16	21:01	02:05	Method Blank
OP94085-BS1	2P59405.D	05/20/16	21:24	02:28	Blank Spike
ZZZZZZ	2P59406.D	05/20/16	21:48	02:52	(unrelated sample)
OP94076-MSD	2P59407.D	05/20/16	22:11	03:15	Matrix Spike Duplicate
ZZZZZZ	2P59409.D	05/20/16	22:58	04:02	(unrelated sample)
ZZZZZZ	2P59410.D	05/20/16	23:22	04:26	(unrelated sample)
ZZZZZZ	2P59411.D	05/20/16	23:45	04:49	(unrelated sample)
ZZZZZZ	2P59415.D	05/21/16	01:18	06:22	(unrelated sample)
ZZZZZZ	2P59416.D	05/21/16	01:42	06:46	(unrelated sample)
ZZZZZZ	2P59417.D	05/21/16	02:05	07:09	(unrelated sample)
ZZZZZZ	2P59418.D	05/21/16	02:28	07:32	(unrelated sample)
ZZZZZZ	2P59419.D	05/21/16	02:51	07:55	(unrelated sample)
JC20130-3	2P59420.D	05/21/16	03:14	08:18	(used for QC only; not part of job JC20098)
ZZZZZZ	2P59421.D	05/21/16	03:37	08:41	(unrelated sample)
OP94085-MS	2P59422.D	05/21/16	03:59	09:03	Matrix Spike
OP94085-MSD	2P59423.D	05/21/16	04:21	09:25	Matrix Spike Duplicate
ZZZZZZ	2P59424.D	05/21/16	04:43	09:47	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E2P2594-DFTPP
Lab File ID: 2P59400.D
Instrument ID: GCMS2P
Injection Date: 05/20/16
Injection Time: 18:56

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	2P59425.D	05/21/16	05:04	10:08	(unrelated sample)
ZZZZZZ	2P59426.D	05/21/16	05:26	10:30	(unrelated sample)
ZZZZZZ	2P59427.D	05/21/16	05:48	10:52	(unrelated sample)
ZZZZZZ	2P59428.D	05/21/16	06:09	11:13	(unrelated sample)
ZZZZZZ	2P59429.D	05/21/16	06:31	11:35	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E3M2855-DFTPP
Lab File ID: 3M60762.D
Instrument ID: GCMS3M
Injection Date: 04/21/16
Injection Time: 13:31

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	238296	36.2		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	313116	47.6		Pass
70	Less than 2.0% of mass 69	3204	0.49	(1.02) [a]	Pass
127	40.0 - 60.0% of mass 198	329840	50.1		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	657712	100.0		Pass
199	5.0 - 9.0% of mass 198	45100	6.86		Pass
275	10.0 - 30.0% of mass 198	145467	22.1		Pass
365	1.0 - 100.0% of mass 198	14264	2.17		Pass
441	Present, but less than mass 443	68134	10.4	(81.8) [b]	Pass
442	40.0 - 100.0% of mass 198	425304	64.7		Pass
443	17.0 - 23.0% of mass 442	83298	12.7	(19.6) [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
E3M2855-ICC2855	3M60763A.D	04/21/16	14:34	01:03	Initial cal 1
E3M2855-IC2855	3M60764A.D	04/21/16	15:07	01:36	Initial cal 0.5
E3M2855-IC2855	3M60765A.D	04/21/16	15:39	02:08	Initial cal 0.2
E3M2855-IC2855	3M60766.D	04/21/16	16:12	02:41	Initial cal 0.1
E3M2855-IC2855	3M60767.D	04/21/16	16:44	03:13	Initial cal 0.05
E3M2855-IC2855	3M60768.D	04/21/16	17:17	03:46	Initial cal 0.02
E3M2855-IC2855	3M60769.D	04/21/16	17:49	04:18	Initial cal 0.01
E3M2855-IC2855	3M60770.D	04/21/16	18:22	04:51	Initial cal 5.0
E3M2855-IC2855	3M60771.D	04/21/16	18:55	05:24	Initial cal 2.5
E3M2855-ICV2855	3M60772.D	04/21/16	19:27	05:56	Initial cal verification 1.0
E3M2855-ICV2855	3M60773.D	04/21/16	20:00	06:29	Initial cal verification 1.0
E3M2855-ICV2855	3M60774.D	04/21/16	20:35	07:04	Initial cal verification 1.0

Instrument Performance Check (DFTPP)

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E3M2882-DFTPP
Lab File ID: 3M61294.D
Instrument ID: GCMS3M
Injection Date: 05/13/16
Injection Time: 10:17

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	183687	36.7		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	241816	48.3		Pass
70	Less than 2.0% of mass 69	1121	0.22	(0.46) [a]	Pass
127	40.0 - 60.0% of mass 198	245383	49.0		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	500971	100.0		Pass
199	5.0 - 9.0% of mass 198	32535	6.49		Pass
275	10.0 - 30.0% of mass 198	121152	24.2		Pass
365	1.0 - 100.0% of mass 198	14632	2.92		Pass
441	Present, but less than mass 443	62225	12.4	(82.4) [b]	Pass
442	40.0 - 100.0% of mass 198	389520	77.8		Pass
443	17.0 - 23.0% of mass 442	75501	15.1	(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
E3M2882-CC2855	3M61295.D	05/13/16	10:30	00:13	Continuing cal 1.0
OP93847A-MB1	3M61296.D	05/13/16	11:07	00:50	Method Blank
OP93847A-BS12	3M61297.D	05/13/16	11:40	01:23	Blank Spike
OP93867A-BS12	3M61298.D	05/13/16	12:12	01:55	Blank Spike
OP93867A-MS	3M61299.D	05/13/16	12:45	02:28	Matrix Spike
OP93867A-MSD	3M61300.D	05/13/16	13:17	03:00	Matrix Spike Duplicate
OP93867A-MB1	3M61311.D	05/13/16	13:50	03:33	Method Blank
JC20098-1	3M61312.D	05/13/16	14:22	04:05	RA19GWS
JC20098-4	3M61313.D	05/13/16	14:55	04:38	S-39S
JC20098-5	3M61314.D	05/13/16	15:28	05:11	RA19-GWD
JC19921-10	3M61315.D	05/13/16	16:00	05:43	(used for QC only; not part of job JC20098)
JC19961-1	3M61301.D	05/13/16	16:33	06:16	(used for QC only; not part of job JC20098)
ZZZZZZ	3M61302.D	05/13/16	17:06	06:49	(unrelated sample)
ZZZZZZ	3M61303.D	05/13/16	17:38	07:21	(unrelated sample)
ZZZZZZ	3M61304.D	05/13/16	18:11	07:54	(unrelated sample)
ZZZZZZ	3M61305.D	05/13/16	18:43	08:26	(unrelated sample)
ZZZZZZ	3M61306.D	05/13/16	19:16	08:59	(unrelated sample)
ZZZZZZ	3M61307.D	05/13/16	19:49	09:32	(unrelated sample)
ZZZZZZ	3M61308.D	05/13/16	20:21	10:04	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample:	E3M2882-DFTPP	**Injection Date:**	05/13/16
Lab File ID:	3M61294.D	**Injection Time:**	10:17
Instrument ID:	GCMS3M		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
OP93847A-MS	3M61309.D	05/13/16	20:54	10:37	Matrix Spike
OP93847A-MSD	3M61310.D	05/13/16	21:27	11:10	Matrix Spike Duplicate

Instrument Performance Check (DFTPP)

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E3P2413-DFTPP
Lab File ID: 3P53001.D
Instrument ID: GCMS3P
Injection Date: 04/29/16
Injection Time: 09:08

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	11934	41.6		Pass
68	Less than 2.0% of mass 69	295	1.03	(1.87) [a]	Pass
69	Mass 69 relative abundance	15812	55.1		Pass
70	Less than 2.0% of mass 69	153	0.53	(0.97) [a]	Pass
127	40.0 - 60.0% of mass 198	14603	50.9		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	28708	100.0		Pass
199	5.0 - 9.0% of mass 198	1966	6.85		Pass
275	10.0 - 30.0% of mass 198	6705	23.4		Pass
365	1.0 - 100.0% of mass 198	967	3.37		Pass
441	Present, but less than mass 443	2477	8.63	(83.9) [b]	Pass
442	40.0 - 100.0% of mass 198	16253	56.6		Pass
443	17.0 - 23.0% of mass 442	2953	10.3	(18.2) [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
E3P2413-ICC2413	3P53002.D	04/29/16	09:23	00:15	Initial cal 50
E3P2413-IC2413	3P53003.D	04/29/16	09:52	00:44	Initial cal 25
E3P2413-IC2413	3P53004.D	04/29/16	10:19	01:11	Initial cal 1
E3P2413-IC2413	3P53005.D	04/29/16	10:46	01:38	Initial cal 100
E3P2413-IC2413	3P53006.D	04/29/16	11:14	02:06	Initial cal 2
E3P2413-IC2413	3P53007.D	04/29/16	11:41	02:33	Initial cal 80
E3P2413-IC2413	3P53008.D	04/29/16	12:08	03:00	Initial cal 5
E3P2413-IC2413	3P53009.D	04/29/16	12:35	03:27	Initial cal 10

Instrument Performance Check (DFTPP)

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E3P2414-DFTPP
Lab File ID: 3P53010.D
Instrument ID: GCMS3P
Injection Date: 04/29/16
Injection Time: 13:31

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	9139	36.1		Pass
68	Less than 2.0% of mass 69	197	0.78	(1.60) [a]	Pass
69	Mass 69 relative abundance	12307	48.6		Pass
70	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
127	40.0 - 60.0% of mass 198	12733	50.2		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	25345	100.0		Pass
199	5.0 - 9.0% of mass 198	1597	6.30		Pass
275	10.0 - 30.0% of mass 198	6167	24.3		Pass
365	1.0 - 100.0% of mass 198	854	3.37		Pass
441	Present, but less than mass 443	2529	9.98	(83.1) [b]	Pass
442	40.0 - 100.0% of mass 198	16136	63.7		Pass
443	17.0 - 23.0% of mass 442	3044	12.0	(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
E3P2414-ICC2414	3P53011.D	04/29/16	13:42	00:11	Initial cal 50
E3P2414-IC2414	3P53012.D	04/29/16	14:09	00:38	Initial cal 25
E3P2414-IC2414	3P53013.D	04/29/16	14:36	01:05	Initial cal 1
E3P2414-IC2414	3P53014.D	04/29/16	15:03	01:32	Initial cal 2
E3P2414-IC2414	3P53015.D	04/29/16	15:30	01:59	Initial cal 5
E3P2414-IC2414	3P53016.D	04/29/16	15:57	02:26	Initial cal 10
E3P2414-IC2414	3P53017.D	04/29/16	16:25	02:54	Initial cal 80
E3P2414-IC2414	3P53018.D	04/29/16	16:52	03:21	Initial cal 100
E3P2414-ICV2413	3P53021.D	04/29/16	18:12	04:41	Initial cal verification 50
E3P2414-ICV2413	3P53022.D	04/29/16	18:38	05:07	Initial cal verification 50
E3P2414-ICV2413	3P53023.D	04/29/16	19:03	05:32	Initial cal verification 50
E3P2414-ICV2413	3P53024A.D	04/29/16	19:29	05:58	Initial cal verification 50
E3P2414-ICV2414	3P53024.D	04/29/16	19:29	05:58	Initial cal verification 50
E3P2414-ICV2414	3P53025.D	04/29/16	19:55	06:24	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E3P2415-DFTPP
Lab File ID: 3P53029.D
Instrument ID: GCMS3P
Injection Date: 05/02/16
Injection Time: 11:46

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	11422	44.5		Pass
68	Less than 2.0% of mass 69	88	0.34	(0.58) [a]	Pass
69	Mass 69 relative abundance	15091	58.8		Pass
70	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
127	40.0 - 60.0% of mass 198	13558	52.8		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	25677	100.0		Pass
199	5.0 - 9.0% of mass 198	1722	6.71		Pass
275	10.0 - 30.0% of mass 198	5796	22.6		Pass
365	1.0 - 100.0% of mass 198	762	2.97		Pass
441	Present, but less than mass 443	2410	9.39	(89.0) [b]	Pass
442	40.0 - 100.0% of mass 198	14089	54.9		Pass
443	17.0 - 23.0% of mass 442	2707	10.5	(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
E3P2415-ICV2413	3P53030.D	05/02/16	11:57	00:11	Initial cal verification 50
E3P2415-ICV2414	3P53030A.D	05/02/16	11:57	00:11	Initial cal verification 50
E3P2415-ICV2414	3P53031A.D	05/02/16	12:36	00:50	Initial cal verification 50
E3P2415-ICV2413	3P53031.D	05/02/16	12:36	00:50	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E3P2447-DFTPP
Lab File ID: 3P53783.D
Instrument ID: GCMS3P
Injection Date: 05/25/16
Injection Time: 11:28

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	14784	58.8		Pass
68	Less than 2.0% of mass 69	284	1.13	(1.70) [a]	Pass
69	Mass 69 relative abundance	16715	66.4		Pass
70	Less than 2.0% of mass 69	217	0.86	(1.30) [a]	Pass
127	40.0 - 60.0% of mass 198	14800	58.8		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	25161	100.0		Pass
199	5.0 - 9.0% of mass 198	1809	7.19		Pass
275	10.0 - 30.0% of mass 198	6329	25.2		Pass
365	1.0 - 100.0% of mass 198	1424	5.66		Pass
441	Present, but less than mass 443	1967	7.82	(71.7) [b]	Pass
442	40.0 - 100.0% of mass 198	14781	58.7		Pass
443	17.0 - 23.0% of mass 442	2742	10.9	(18.6) [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
E3P2447-CC2413	3P53784.D	05/25/16	11:42	00:14	Continuing cal 50
E3P2447-CC2414	3P53785.D	05/25/16	12:17	00:49	Continuing cal 50
OP94049-MB1	3P53787.D	05/25/16	13:58	02:30	Method Blank
JC20147-5	3P53788.D	05/25/16	14:53	03:25	(used for QC only; not part of job JC20098)
ZZZZZZ	3P53789.D	05/25/16	15:21	03:53	(unrelated sample)
JC20098-2	3P53791.D	05/25/16	15:49	04:21	RA-19 (5-6)
JC20098-3	3P53792.D	05/25/16	16:17	04:49	RA-19 (6.2-7.2)
JC20143-1	3P53793.D	05/25/16	16:44	05:16	(used for QC only; not part of job JC20098)
ZZZZZZ	3P53794.D	05/25/16	17:12	05:44	(unrelated sample)
ZZZZZZ	3P53795.D	05/25/16	17:40	06:12	(unrelated sample)
ZZZZZZ	3P53796.D	05/25/16	18:07	06:39	(unrelated sample)
ZZZZZZ	3P53797.D	05/25/16	18:35	07:07	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E4M2930-DFTPP
Lab File ID: 4M65478.D
Instrument ID: GCMS4M
Injection Date: 05/24/16
Injection Time: 10:16

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	383816	43.7		Pass
68	Less than 2.0% of mass 69	6115	0.70	(1.66) [a]	Pass
69	Mass 69 relative abundance	367628	41.8		Pass
70	Less than 2.0% of mass 69	884	0.10	(0.24) [a]	Pass
127	40.0 - 60.0% of mass 198	388395	44.2		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	878571	100.0		Pass
199	5.0 - 9.0% of mass 198	59024	6.72		Pass
275	10.0 - 30.0% of mass 198	195413	22.2		Pass
365	1.0 - 100.0% of mass 198	24512	2.79		Pass
441	Present, but less than mass 443	119432	13.6	(74.2) [b]	Pass
442	40.0 - 100.0% of mass 198	803968	91.5		Pass
443	17.0 - 23.0% of mass 442	160928	18.3	(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
E4M2930-ICC2930	4M65479.D	05/24/16	10:33	00:17	Initial cal 1
E4M2930-IC2930	4M65480.D	05/24/16	11:03	00:47	Initial cal .5
E4M2930-IC2930	4M65481.D	05/24/16	11:33	01:17	Initial cal .2
E4M2930-IC2930	4M65482.D	05/24/16	12:04	01:48	Initial cal .1
E4M2930-IC2930	4M65483.D	05/24/16	12:34	02:18	Initial cal .05
E4M2930-IC2930	4M65484.D	05/24/16	13:05	02:49	Initial cal .02
E4M2930-IC2930	4M65485.D	05/24/16	13:35	03:19	Initial cal .01
E4M2930-IC2930	4M65486.D	05/24/16	14:05	03:49	Initial cal 5
E4M2930-IC2930	4M65487.D	05/24/16	14:36	04:20	Initial cal 2.5
E4M2930-ICV2930	4M65488.D	05/24/16	15:36	05:20	Initial cal verification 1

Instrument Performance Check (DFTPP)

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E4M2931-DFTPP
Lab File ID: 4M65489.D
Instrument ID: GCMS4M
Injection Date: 05/24/16
Injection Time: 16:07

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	364272	46.9		Pass
68	Less than 2.0% of mass 69	5391	0.69	(1.67) [a]	Pass
69	Mass 69 relative abundance	322652	41.5		Pass
70	Less than 2.0% of mass 69	1494	0.19	(0.46) [a]	Pass
127	40.0 - 60.0% of mass 198	349909	45.0		Pass
197	Less than 1.0% of mass 198	1880	0.24		Pass
198	Base peak, 100% relative abundance	777408	100.0		Pass
199	5.0 - 9.0% of mass 198	52872	6.80		Pass
275	10.0 - 30.0% of mass 198	171947	22.1		Pass
365	1.0 - 100.0% of mass 198	22042	2.84		Pass
441	Present, but less than mass 443	101059	13.0	(73.9) [b]	Pass
442	40.0 - 100.0% of mass 198	702741	90.4		Pass
443	17.0 - 23.0% of mass 442	136667	17.6	(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
E4M2931-CC2930	4M65490.D	05/24/16	16:18	00:11	Continuing cal 1
ZZZZZZ	4M65492.D	05/24/16	17:19	01:12	(unrelated sample)
ZZZZZZ	4M65493.D	05/24/16	17:50	01:43	(unrelated sample)
ZZZZZZ	4M65494.D	05/24/16	18:20	02:13	(unrelated sample)
ZZZZZZ	4M65495.D	05/24/16	18:51	02:44	(unrelated sample)
ZZZZZZ	4M65496.D	05/24/16	19:21	03:14	(unrelated sample)
ZZZZZZ	4M65497.D	05/24/16	19:51	03:44	(unrelated sample)
ZZZZZZ	4M65498.D	05/24/16	20:22	04:15	(unrelated sample)
OP94049A-MS	4M65499.D	05/24/16	20:52	04:45	Matrix Spike
OP94049A-MSD	4M65500.D	05/24/16	21:22	05:15	Matrix Spike Duplicate
OP94085A-MB1	4M65501.D	05/24/16	21:53	05:46	Method Blank
OP94085A-BS12	4M65502.D	05/24/16	22:23	06:16	Blank Spike
OP94085A-MS	4M65503.D	05/24/16	22:54	06:47	Matrix Spike
OP94085A-MSD	4M65504.D	05/24/16	23:24	07:17	Matrix Spike Duplicate
JC20098-2	4M65505.D	05/24/16	23:55	07:48	RA-19 (5-6)
JC20098-3	4M65506.D	05/25/16	00:25	08:18	RA-19 (6.2-7.2)
OP94091A-MB1	4M65507.D	05/25/16	00:55	08:48	Method Blank
OP94091A-BS12	4M65508.D	05/25/16	01:25	09:18	Blank Spike
OP94091A-MS	4M65509.D	05/25/16	01:56	09:49	Matrix Spike

Instrument Performance Check (DFTPP)

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E4M2931-DFTPP
Lab File ID: 4M65489.D
Instrument ID: GCMS4M
Injection Date: 05/24/16
Injection Time: 16:07

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
OP94091A-MSD	4M65510.D	05/25/16	02:26	10:19	Matrix Spike Duplicate
JC20202-1	4M65511.D	05/25/16	02:56	10:49	(used for QC only; not part of job JC20098)
ZZZZZZ	4M65512.D	05/25/16	03:26	11:19	(unrelated sample)
ZZZZZZ	4M65513.D	05/25/16	03:56	11:49	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E6P1209-DFTPP
Lab File ID: 6P25923.D
Instrument ID: GCMS6P
Injection Date: 05/13/16
Injection Time: 09:12

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	118557	54.8		Pass
68	Less than 2.0% of mass 69	1119	0.52	(0.93) [a]	Pass
69	Mass 69 relative abundance	120494	55.7		Pass
70	Less than 2.0% of mass 69	996	0.46	(0.83) [a]	Pass
127	40.0 - 60.0% of mass 198	126024	58.3		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	216184	100.0		Pass
199	5.0 - 9.0% of mass 198	14389	6.66		Pass
275	10.0 - 30.0% of mass 198	64576	29.9		Pass
365	1.0 - 100.0% of mass 198	9081	4.20		Pass
441	Present, but less than mass 443	28875	13.4	(79.7) [b]	Pass
442	40.0 - 100.0% of mass 198	185597	85.9		Pass
443	17.0 - 23.0% of mass 442	36212	16.8	(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
E6P1209-IC1209	6P25924.D	05/13/16	09:24	00:12	Initial cal 2
E6P1209-IC1209	6P25925.D	05/13/16	09:53	00:41	Initial cal 1
E6P1209-IC1209	6P25926.D	05/13/16	10:20	01:08	Initial cal 100
E6P1209-IC1209	6P25927.D	05/13/16	10:47	01:35	Initial cal 80
E6P1209-ICC1209	6P25928.D	05/13/16	11:15	02:03	Initial cal 50
E6P1209-IC1209	6P25929.D	05/13/16	11:42	02:30	Initial cal 25
E6P1209-IC1209	6P25930.D	05/13/16	12:09	02:57	Initial cal 10
E6P1209-IC1209	6P25931.D	05/13/16	12:36	03:24	Initial cal 5

Instrument Performance Check (DFTPP)

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E6P1210-DFTPP
Lab File ID: 6P25937.D
Instrument ID: GCMS6P
Injection Date: 05/13/16
Injection Time: 14:25

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	89165	43.1		Pass
68	Less than 2.0% of mass 69	207	0.10	(0.22) [a]	Pass
69	Mass 69 relative abundance	93133	45.0		Pass
70	Less than 2.0% of mass 69	404	0.20	(0.43) [a]	Pass
127	40.0 - 60.0% of mass 198	109826	53.1		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	206826	100.0		Pass
199	5.0 - 9.0% of mass 198	14852	7.18		Pass
275	10.0 - 30.0% of mass 198	54986	26.6		Pass
365	1.0 - 100.0% of mass 198	7287	3.52		Pass
441	Present, but less than mass 443	22871	11.1	(84.5) [b]	Pass
442	40.0 - 100.0% of mass 198	139682	67.5		Pass
443	17.0 - 23.0% of mass 442	27080	13.1	(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
E6P1210-IC1210	6P25938.D	05/13/16	14:45	00:20	Initial cal 100
E6P1210-IC1210	6P25939.D	05/13/16	15:12	00:47	Initial cal 80
E6P1210-ICC1210	6P25940.D	05/13/16	15:40	01:15	Initial cal 50
E6P1210-IC1210	6P25941.D	05/13/16	16:07	01:42	Initial cal 25
E6P1210-IC1210	6P25942.D	05/13/16	16:35	02:10	Initial cal 10
E6P1210-IC1210	6P25943.D	05/13/16	17:02	02:37	Initial cal 5
E6P1210-IC1210	6P25944.D	05/13/16	17:30	03:05	Initial cal 2
E6P1210-IC1210	6P25945.D	05/13/16	17:57	03:32	Initial cal 1
E6P1210-ICV1209	6P25950.D	05/13/16	20:14	05:49	Initial cal verification 50
E6P1210-ICV1210	6P25950A.D	05/13/16	20:14	05:49	Initial cal verification 50
E6P1210-ICV1209	6P25951.D	05/13/16	20:42	06:17	Initial cal verification 50
E6P1210-ICV1210	6P25952.D	05/13/16	21:09	06:44	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E6P1211-DFTPP
Lab File ID: 6P25953.D
Instrument ID: GCMS6P
Injection Date: 05/16/16
Injection Time: 08:59

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	125051	47.5		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	127610	48.5		Pass
70	Less than 2.0% of mass 69	625	0.24	(0.49) [a]	Pass
127	40.0 - 60.0% of mass 198	144274	54.9		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	262997	100.0		Pass
199	5.0 - 9.0% of mass 198	16343	6.21		Pass
275	10.0 - 30.0% of mass 198	68986	26.2		Pass
365	1.0 - 100.0% of mass 198	7608	2.89		Pass
441	Present, but less than mass 443	24632	9.37	(81.1) [b]	Pass
442	40.0 - 100.0% of mass 198	158754	60.4		Pass
443	17.0 - 23.0% of mass 442	30379	11.6	(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
E6P1211-ICV1209	6P25954.D	05/16/16	09:15	00:16	Initial cal verification 50
E6P1211-ICV1209	6P25955.D	05/16/16	09:42	00:43	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E6P1212-DFTPP
Lab File ID: 6P25958.D
Instrument ID: GCMS6P
Injection Date: 05/16/16
Injection Time: 11:00

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	129527	47.4		Pass
68	Less than 2.0% of mass 69	932	0.34	(0.67) [a]	Pass
69	Mass 69 relative abundance	138190	50.6		Pass
70	Less than 2.0% of mass 69	775	0.28	(0.56) [a]	Pass
127	40.0 - 60.0% of mass 198	148557	54.4		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	273010	100.0		Pass
199	5.0 - 9.0% of mass 198	18218	6.67		Pass
275	10.0 - 30.0% of mass 198	70571	25.8		Pass
365	1.0 - 100.0% of mass 198	8697	3.19		Pass
441	Present, but less than mass 443	23976	8.78	(76.8) [b]	Pass
442	40.0 - 100.0% of mass 198	151981	55.7		Pass
443	17.0 - 23.0% of mass 442	31207	11.4	(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
E6P1212-ICV1209	6P25959.D	05/16/16	11:13	00:13	Initial cal verification 50
E6P1212-ICV1209	6P25960.D	05/16/16	11:40	00:40	Initial cal verification 50
E6P1212-ICV1210	6P25960A.D	05/16/16	11:40	00:40	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E6P1227-DFTPP
Lab File ID: 6P26345.D
Instrument ID: GCMS6P
Injection Date: 05/25/16
Injection Time: 09:01

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	124651	41.3		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	131038	43.4		Pass
70	Less than 2.0% of mass 69	458	0.15	(0.35) [a]	Pass
127	40.0 - 60.0% of mass 198	158920	52.6		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	302037	100.0		Pass
199	5.0 - 9.0% of mass 198	20201	6.69		Pass
275	10.0 - 30.0% of mass 198	74272	24.6		Pass
365	1.0 - 100.0% of mass 198	9069	3.00		Pass
441	Present, but less than mass 443	29945	9.91	(86.3) [b]	Pass
442	40.0 - 100.0% of mass 198	186898	61.9		Pass
443	17.0 - 23.0% of mass 442	34697	11.5	(18.6) [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
E6P1227-CC1209	6P26346.D	05/25/16	09:16	00:15	Continuing cal 25
E6P1227-CC1210	6P26347.D	05/25/16	09:51	00:50	Continuing cal 25
OP94085-MB1	6P26349.D	05/25/16	10:45	01:44	Method Blank
OP94190-MB1	6P26350.D	05/25/16	11:12	02:11	Method Blank
OP94190-BS1	6P26351.D	05/25/16	11:39	02:38	Blank Spike
ZZZZZZ	6P26352.D	05/25/16	12:06	03:05	(unrelated sample)
ZZZZZZ	6P26353.D	05/25/16	12:33	03:32	(unrelated sample)
ZZZZZZ	6P26354.D	05/25/16	13:01	04:00	(unrelated sample)
ZZZZZZ	6P26355.D	05/25/16	13:28	04:27	(unrelated sample)
ZZZZZZ	6P26357.D	05/25/16	14:23	05:22	(unrelated sample)
ZZZZZZ	6P26358.D	05/25/16	14:49	05:48	(unrelated sample)
ZZZZZZ	6P26359.D	05/25/16	15:17	06:16	(unrelated sample)
ZZZZZZ	6P26360.D	05/25/16	16:12	07:11	(unrelated sample)
ZZZZZZ	6P26361.D	05/25/16	16:39	07:38	(unrelated sample)
OP94206-MS	6P26363.D	05/25/16	17:06	08:05	Matrix Spike
JC20801-1	6P26365.D	05/25/16	18:01	09:00	(used for QC only; not part of job JC20098)
JC20617-1	6P26367.D	05/25/16	18:28	09:27	(used for QC only; not part of job JC20098)
OP94190-MS	6P26368.D	05/25/16	18:56	09:55	Matrix Spike
OP94190-MSD	6P26369.D	05/25/16	19:23	10:22	Matrix Spike Duplicate

Instrument Performance Check (DFTPP)

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample:	E6P1227-DFTPP	**Injection Date:**	05/25/16
Lab File ID:	6P26345.D	**Injection Time:**	09:01
Instrument ID:	GCMS6P		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	6P26370.D	05/25/16	19:51	10:50	(unrelated sample)
ZZZZZZ	6P26371.D	05/25/16	20:18	11:17	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: EF6563-DFTPP
Lab File ID: F156050.D
Instrument ID: GCMSF
Injection Date: 04/04/16
Injection Time: 18:54

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	108584	30.9		Pass
68	Less than 2.0% of mass 69	596	0.17	(0.43) [a]	Pass
69	Mass 69 relative abundance	140032	39.9		Pass
70	Less than 2.0% of mass 69	642	0.18	(0.46) [a]	Pass
127	40.0 - 60.0% of mass 198	175460	50.0		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	351082	100.0		Pass
199	5.0 - 9.0% of mass 198	23024	6.56		Pass
275	10.0 - 30.0% of mass 198	62466	17.8		Pass
365	1.0 - 100.0% of mass 198	5730	1.63		Pass
441	Present, but less than mass 443	29498	8.40	(76.5) [b]	Pass
442	40.0 - 100.0% of mass 198	194704	55.5		Pass
443	17.0 - 23.0% of mass 442	38575	11.0	(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
EF6563-IC6563	F156051.D	04/04/16	19:09	00:15	Initial cal 100
EF6563-IC6563	F156052.D	04/04/16	19:38	00:44	Initial cal 80
EF6563-ICC6563	F156053.D	04/04/16	20:07	01:13	Initial cal 50
EF6563-IC6563	F156054.D	04/04/16	20:37	01:43	Initial cal 25
EF6563-IC6563	F156055.D	04/04/16	21:06	02:12	Initial cal 10
EF6563-IC6563	F156056.D	04/04/16	21:35	02:41	Initial cal 5
EF6563-IC6563	F156057.D	04/04/16	22:04	03:10	Initial cal 2
EF6563-IC6563	F156058.D	04/04/16	22:33	03:39	Initial cal 1

Instrument Performance Check (DFTPP)

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: EF6564-DFTPP
Lab File ID: F156059.D
Instrument ID: GCMSF
Injection Date: 04/04/16
Injection Time: 23:06

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	115179	32.1		Pass
68	Less than 2.0% of mass 69	157	0.04	(0.10) [a]	Pass
69	Mass 69 relative abundance	151437	42.2		Pass
70	Less than 2.0% of mass 69	785	0.22	(0.52) [a]	Pass
127	40.0 - 60.0% of mass 198	186202	51.9		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	358677	100.0		Pass
199	5.0 - 9.0% of mass 198	23181	6.46		Pass
275	10.0 - 30.0% of mass 198	63472	17.7		Pass
365	1.0 - 100.0% of mass 198	5413	1.51		Pass
441	Present, but less than mass 443	27575	7.69	(79.8) [b]	Pass
442	40.0 - 100.0% of mass 198	177434	49.5		Pass
443	17.0 - 23.0% of mass 442	34561	9.64	(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
EF6564-IC6564	F156060.D	04/04/16	23:27	00:21	Initial cal 100
EF6564-IC6564	F156061.D	04/04/16	23:56	00:50	Initial cal 80
EF6564-ICC6564	F156062.D	04/05/16	00:25	01:19	Initial cal 50
EF6564-IC6564	F156063.D	04/05/16	00:53	01:47	Initial cal 25
EF6564-IC6564	F156064.D	04/05/16	01:22	02:16	Initial cal 10
EF6564-IC6564	F156065.D	04/05/16	01:51	02:45	Initial cal 5
EF6564-IC6564	F156066.D	04/05/16	02:19	03:13	Initial cal 2
EF6564-IC6564	F156067.D	04/05/16	02:48	03:42	Initial cal 1
EF6564-ICV6563	F156069.D	04/05/16	03:46	04:40	Initial cal verification 50
EF6564-ICV6563	F156070.D	04/05/16	04:15	05:09	Initial cal verification 50
EF6564-ICV6563	F156071.D	04/05/16	04:44	05:38	Initial cal verification 50
EF6564-ICV6564	F156071A.D	04/05/16	04:44	05:38	Initial cal verification 50
EF6564-ICV6563	F156072.D	04/05/16	05:13	06:07	Initial cal verification 50
EF6564-ICV6564	F156072A.D	04/05/16	05:13	06:07	Initial cal verification 50
EF6564-ICV6563	F156073.D	04/05/16	05:42	06:36	Initial cal verification 50
EF6564-ICV6564	F156073A.D	04/05/16	05:42	06:36	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: EF6567-DFTPP
Lab File ID: F156088.D
Instrument ID: GCMSF
Injection Date: 04/05/16
Injection Time: 18:00

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	102858	36.1		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	139965	49.1		Pass
70	Less than 2.0% of mass 69	764	0.27	(0.55) [a]	Pass
127	40.0 - 60.0% of mass 198	155093	54.5		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	284778	100.0		Pass
199	5.0 - 9.0% of mass 198	18151	6.37		Pass
275	10.0 - 30.0% of mass 198	55232	19.4		Pass
365	1.0 - 100.0% of mass 198	5389	1.89		Pass
441	Present, but less than mass 443	28740	10.1	(74.0) [b]	Pass
442	40.0 - 100.0% of mass 198	192210	67.5		Pass
443	17.0 - 23.0% of mass 442	38818	13.6	(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
EF6567-IC6567	F156089.D	04/05/16	18:25	00:25	Initial cal 100
EF6567-IC6567	F156090.D	04/05/16	18:54	00:54	Initial cal 80
EF6567-ICC6567	F156091.D	04/05/16	19:23	01:23	Initial cal 50
EF6567-IC6567	F156092.D	04/05/16	19:51	01:51	Initial cal 25
EF6567-IC6567	F156093.D	04/05/16	20:20	02:20	Initial cal 10
EF6567-IC6567	F156094.D	04/05/16	20:49	02:49	Initial cal 5
EF6567-IC6567	F156095.D	04/05/16	21:18	03:18	Initial cal 2
EF6567-IC6567	F156096.D	04/05/16	21:47	03:47	Initial cal 1
EF6567-ICV6564	F156097.D	04/05/16	22:16	04:16	Initial cal verification 50
EF6567-ICV6567	F156098.D	04/05/16	22:45	04:45	Initial cal verification 50
EF6567-ICV6567	F156099.D	04/05/16	23:14	05:14	Initial cal verification 50
EF6567-ICV6567	F156100.D	04/05/16	23:43	05:43	Initial cal verification 50
EF6567-ICV6567	F156101.D	04/06/16	00:12	06:12	Initial cal verification 50
EF6567-ICV6566	F156102.D	04/06/16	00:41	06:41	Initial cal verification 50
EF6567-ICV6566	F156104.D	04/06/16	01:39	07:39	Initial cal verification 50
EF6567-ICV6566	F156105.D	04/06/16	02:08	08:08	Initial cal verification 50
EF6567-ICV6566	F156106.D	04/06/16	02:38	08:38	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: EF6610-DFTPP
Lab File ID: F157058.D
Instrument ID: GCMSF
Injection Date: 05/13/16
Injection Time: 08:43

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	122232	39.9		Pass
68	Less than 2.0% of mass 69	465	0.15	(0.26) [a]	Pass
69	Mass 69 relative abundance	179125	58.5		Pass
70	Less than 2.0% of mass 69	1957	0.64	(1.09) [a]	Pass
127	40.0 - 60.0% of mass 198	177871	58.1		Pass
197	Less than 1.0% of mass 198	227	0.07		Pass
198	Base peak, 100% relative abundance	306325	100.0		Pass
199	5.0 - 9.0% of mass 198	18641	6.09		Pass
275	10.0 - 30.0% of mass 198	72458	23.7		Pass
365	1.0 - 100.0% of mass 198	9202	3.00		Pass
441	Present, but less than mass 443	35594	11.6	(66.8) [b]	Pass
442	40.0 - 100.0% of mass 198	253717	82.8		Pass
443	17.0 - 23.0% of mass 442	53280	17.4	(21.0) [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
EF6610-CC6563	F157059.D	05/13/16	09:00	00:17	Continuing cal 50
EF6610-CC6564	F157060.D	05/13/16	09:29	00:46	Continuing cal 50
OP93867-MB1	F157064.D	05/13/16	11:31	02:48	Method Blank
OP93867-BS1	F157065.D	05/13/16	11:59	03:16	Blank Spike
JC20098-1	F157066.D	05/13/16	12:29	03:46	RA19GWS
JC20098-4	F157067.D	05/13/16	12:58	04:15	S-39S
JC20098-5	F157068.D	05/13/16	13:26	04:43	RA19-GWD
OP93867-MS	F157069.D	05/13/16	13:55	05:12	Matrix Spike
OP93867-MSD	F157070.D	05/13/16	14:24	05:41	Matrix Spike Duplicate
JC20098-5	F157081.D	05/13/16	14:54	06:11	RA19-GWD
JC19805-6	F157071.D	05/13/16	15:23	06:40	(used for QC only; not part of job JC20098)
ZZZZZZ	F157072.D	05/13/16	15:52	07:09	(unrelated sample)
ZZZZZZ	F157082.D	05/13/16	16:21	07:38	(unrelated sample)
ZZZZZZ	F157073.D	05/13/16	17:19	08:36	(unrelated sample)
ZZZZZZ	F157074.D	05/13/16	17:48	09:05	(unrelated sample)
ZZZZZZ	F157075.D	05/13/16	18:17	09:34	(unrelated sample)
ZZZZZZ	F157076.D	05/13/16	18:46	10:03	(unrelated sample)
ZZZZZZ	F157080.D	05/13/16	19:45	11:02	(unrelated sample)

Semivolatile Internal Standard Area Summary

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	E2P2594-CC2547	**Injection Date:**	05/20/16
Lab File ID:	2P59401A.D	**Injection Time:**	19:37
Instrument ID:	GCMS2P	**Method:**	SW846 8270D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	224356	4.76	753025	5.82	464634	7.27	827359	8.59	910470	11.94	765744	13.95
Upper Limit [a]	448712	5.26	1506050	6.32	929268	7.77	1654718	9.09	1820940	12.44	1531488	14.45
Lower Limit [b]	112178	4.26	376513	5.32	232317	6.77	413680	8.09	455235	11.44	382872	13.45

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP94085-MB1	264186	4.76	963690	5.82	580818	7.27	1020566	8.59	1036321	11.93	903920	13.95
OP94085-BS1	207454	4.76	711034	5.82	435682	7.27	795285	8.59	880535	11.94	730386	13.95
ZZZZZZ	244579	4.76	858220	5.82	542577	7.26	914656	8.59	1001624	11.93	886892	13.94
OP94076-MSD	246207	4.76	863867	5.82	548582	7.27	955813	8.59	1057242	11.94	875909	13.95
ZZZZZZ	174914	4.80	874112	5.84	542803	7.27	910457	8.59	848252	11.95	703935	13.96
ZZZZZZ	221882	4.78	783608	5.82	532140	7.27	858871	8.59	773361	11.96	641552	13.98
ZZZZZZ	222917	4.78	795480	5.83	512695	7.27	811948	8.60	765764	11.98	592543	14.00
ZZZZZZ	238863	4.76	891294	5.82	546065	7.27	940533	8.59	830776	11.94	631392	13.96
ZZZZZZ	223983	4.76	816968	5.82	500566	7.27	821942	8.59	771345	11.94	614426	13.96
ZZZZZZ	226850	4.76	847102	5.82	516479	7.27	864159	8.59	744123	11.94	595897	13.96
ZZZZZZ	210459	4.76	821923	5.82	505527	7.27	849581	8.59	757414	11.94	576917	13.96
ZZZZZZ	221815	4.76	778370	5.82	485360	7.27	839598	8.59	727571	11.94	573842	13.96
JC20130-3	209106	4.76	777308	5.82	482635	7.27	835392	8.59	729132	11.94	507409	13.95
ZZZZZZ	215643	4.76	790817	5.82	485542	7.27	835200	8.59	743851	11.94	567961	13.96
OP94085-MS	171602	4.76	591101	5.82	371883	7.27	655434	8.59	646311	11.94	492229	13.96
OP94085-MSD	214967	4.76	733031	5.82	462669	7.27	796073	8.59	811503	11.95	635719	13.96
ZZZZZZ	192593	4.76	677924	5.82	447709	7.27	801956	8.59	707479	11.94	541507	13.95
ZZZZZZ	133481	4.79	659467	5.84	376344	7.27	753491	8.59	756799	11.94	630667	13.96
ZZZZZZ	149177	4.77	556352	5.83	404730	7.27	757485	8.59	781070	11.94	623054	13.96
ZZZZZZ	185445	4.76	657082	5.82	443489	7.27	816063	8.59	764716	11.94	598677	13.95
ZZZZZZ	199412	4.76	684347	5.82	435973	7.27	784041	8.59	760052	11.94	556898	13.95
ZZZZZZ	181715	4.78	988302	5.83	483107	7.27	924335	8.59	960003	11.94	761393	13.96

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

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	E3M2882-CC2855	**Injection Date:**	05/13/16
Lab File ID:	3M61295.D	**Injection Time:**	10:30
Instrument ID:	GCMS3M	**Method:**	SW846 8270D BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
Check Std	450824	10.43	652470	13.43	1113079	17.65	1002008	22.26
Upper Limit [a]	901648	10.93	1304940	13.93	2226158	18.15	2004016	22.76
Lower Limit [b]	225412	9.93	326235	12.93	556540	17.15	501004	21.76

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
OP93847A-MB1	567521	10.43	948498	13.43	1547424	17.65	1144652	22.26
OP93847A-BS12	689919	10.43	1138854	13.43	1816062	17.65	1303190	22.26
OP93867A-BS12	649304	10.43	1119614	13.43	1714608	17.65	1279541	22.26
OP93867A-MS	664214	10.43	1161890	13.43	1856280	17.65	1301034	22.26
OP93867A-MSD	723717	10.43	1247644	13.43	2055377	17.65	1412884	22.26
OP93867A-MB1	401392	10.43	584248	13.43	931354	17.65	809694	22.26
JC20098-1	422906	10.43	605291	13.43	987241	17.65	812853	22.26
JC20098-4	433634	10.43	669093	13.43	1055938	17.65	885931	22.26
JC20098-5	401544	10.43	608350	13.43	950958	17.65	830700	22.26
JC19921-10	367711	10.43	515795	13.43	950076	17.67	855045	22.26
JC19961-1	596180	10.43	1070083	13.43	1830654	17.65	1274410	22.26
ZZZZZZ	549740	10.43	959780	13.43	1603146	17.65	1105170	22.26
ZZZZZZ	353829	10.43	484939	13.43	803694	17.65	676339	22.26
ZZZZZZ	393316	10.43	538304	13.43	878573	17.65	759776	22.26
ZZZZZZ	407881	10.43	548352	13.43	898561	17.65	782677	22.26
ZZZZZZ	332970	10.43	441342	13.43	750093	17.65	622338	22.26
ZZZZZZ	363300	10.43	507763	13.43	826920	17.65	706418	22.26
ZZZZZZ	406825	10.43	566676	13.43	931241	17.65	821839	22.26
OP93847A-MS	386627	10.43	520141	13.43	832600	17.65	730232	22.26
OP93847A-MSD	417535	10.43	572066	13.43	881916	17.65	774786	22.26

IS 1 = 1-Methylnaphthalene-d10
IS 2 = Fluorene-d10
IS 3 = Fluoranthene-d10
IS 4 = Benzo(a)pyrene-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

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	E3P2447-CC2413	**Injection Date:**	05/25/16
Lab File ID:	3P53784.D	**Injection Time:**	11:42
Instrument ID:	GCMS3P	**Method:**	SW846 8270D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	49941	4.74	160957	5.67	91782	7.11	165858	9.03	191381	14.36	159371	17.43
Upper Limit [a]	99882	5.24	321914	6.17	183564	7.61	331716	9.53	382762	14.86	318742	17.93
Lower Limit [b]	24971	4.24	80479	5.17	45891	6.61	82929	8.53	95691	13.86	79686	16.93

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP94049-MB1	36420	4.74	127037	5.67	76432	7.10	135786	9.02	139473	14.35	122525	17.42
JC20147-5	37771	4.74	141897	5.67	82553	7.10	148274	9.02	156958	14.35	143076	17.41
ZZZZZZ	44960	4.74	162832	5.67	97201	7.10	176962	9.02	190316	14.34	171314	17.42
JC20098-2	40094	4.74	147039	5.66	89600	7.10	152561	9.02	159337	14.34	136564	17.41
JC20098-3	43375	4.74	154871	5.67	90226	7.10	154863	9.02	154433	14.34	135669	17.41
JC20143-1	41676	4.74	152089	5.67	93203	7.10	162494	9.02	172088	14.34	151690	17.41
ZZZZZZ	59394	4.74	214945	5.67	124323	7.10	213448	9.02	220911	14.35	195967	17.42
ZZZZZZ	55085	4.74	202372	5.67	115539	7.10	198302	9.02	198911	14.35	179940	17.41
ZZZZZZ	40743	4.74	148145	5.66	88406	7.10	148194	9.02	148462	14.35	129974	17.42
ZZZZZZ	43813	4.74	157624	5.67	97418	7.10	171541	9.02	161292	14.34	141203	17.42

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

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	E4M2931-CC2930	**Injection Date:**	05/24/16
Lab File ID:	4M65490.D	**Injection Time:**	16:18
Instrument ID:	GCMS4M	**Method:**	SW846 8270D BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
Check Std	184943	9.86	413529	12.83	718364	17.01	526306	21.61
Upper Limit [a]	369886	10.36	827058	13.33	1436728	17.51	1052612	22.11
Lower Limit [b]	92472	9.36	206765	12.33	359182	16.51	263153	21.11

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
ZZZZZZ	153921	9.86	297429	12.83	531905	17.01	436646	21.61
ZZZZZZ	148186	9.86	297659	12.83	510257	17.01	421764	21.61
ZZZZZZ	190485	9.86	378037	12.83	666942	17.01	509312	21.61
ZZZZZZ	174302	9.86	355416	12.83	638313	17.01	552987	21.61
ZZZZZZ	178302	9.86	385791	12.83	681734	17.01	593936	21.61
ZZZZZZ	200364	9.86	375968	12.83	678905	17.03	563310	21.61
ZZZZZZ	140539	9.86	282877	12.83	465138	17.01	393586	21.61
OP94049A-MS	192157	9.86	382173	12.83	706912	17.01	584320	21.61
OP94049A-MSD	169660	9.86	347248	12.83	657034	17.01	487548	21.60
OP94085A-MB1	229255	9.86	505871	12.83	895554	17.01	628466	21.60
OP94085A-BS12	195603	9.86	429413	12.83	774144	17.01	589116	21.61
OP94085A-MS	154062	9.86	336911	12.83	542536	17.01	412795	21.60
OP94085A-MSD	172029	9.86	369569	12.83	605706	17.01	460456	21.60
JC20098-2	185971	9.86	463462	12.83	715162	17.01	531835	21.60
JC20098-3	179671	9.86	435579	12.83	681915	17.01	499813	21.60
OP94091A-MB1	169615	9.86	428582	12.83	739229	17.01	567649	21.60
OP94091A-BS12	149818	9.86	336742	12.83	551518	17.01	445896	21.60
OP94091A-MS	167342	9.86	420113	12.83	712163	17.01	515701	21.60
OP94091A-MSD	178844	9.86	468686	12.83	822019	17.01	589560	21.60
JC20202-1	192647	9.86	462965	12.83	796075	17.01	582431	21.60
ZZZZZZ	170086	9.86	446309	12.83	747969	17.01	518794	21.60
ZZZZZZ	139522	9.86	349056	12.83	558072	17.01	412967	21.60

IS 1 = 1-Methylnaphthalene-d10
IS 2 = Fluorene-d10
IS 3 = Fluoranthene-d10
IS 4 = Benzo(a)pyrene-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

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	E6P1227-CC1209	**Injection Date:**	05/25/16
Lab File ID:	6P26346.D	**Injection Time:**	09:16
Instrument ID:	GCMS6P	**Method:**	SW846 8270D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	641802	4.79	2649383	5.91	1509821	8.00	2472819	10.20	2207005	14.39	1923716	16.51
Upper Limit [a]	1283604	5.29	5298766	6.41	3019642	8.50	4945638	10.70	4414010	14.89	3847432	17.01
Lower Limit [b]	320901	4.29	1324692	5.41	754911	7.50	1236410	9.70	1103503	13.89	961858	16.01

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP94085-MB1	584789	4.79	2362594	5.91	1299153	8.00	2077301	10.19	1841521	14.38	1630129	16.50
OP94190-MB1	612969	4.79	2388034	5.91	1295000	8.00	2030690	10.19	1770600	14.38	1560718	16.50
OP94190-BS1	562009	4.79	2289248	5.91	1211029	8.00	1896606	10.19	1688446	14.38	1454774	16.50
ZZZZZZ	611089	4.79	2439018	5.91	1340579	8.00	2124286	10.18	1729816	14.38	1546061	16.50
ZZZZZZ	533755	4.79	2250607	5.91	1216778	8.00	1877693	10.19	1639822	14.38	1507026	16.50
ZZZZZZ	601165	4.79	2553610	5.91	1336482	8.00	2144201	10.19	1690853	14.39	1538903	16.51
ZZZZZZ	571713	4.79	2361307	5.91	1338724	8.00	2138718	10.19	1894637	14.38	1675181	16.51
ZZZZZZ	560361	4.79	2175633	5.91	1150348	8.00	1775959	10.19	1394696	14.39	1312680	16.52
ZZZZZZ	588038	4.79	2200402	5.91	1152882	8.01	1749035	10.21	1577852	14.42	1602575	16.56
ZZZZZZ	578461	4.79	2379401	5.92	1324169	8.01	2098169	10.21	1689766	14.40	1572111	16.53
ZZZZZZ	625454	4.79	2573465	5.92	1462815	8.01	2343528	10.21	1938237	14.40	1749681	16.52
ZZZZZZ	549973	4.79	2270340	5.91	1623394	8.01	2014893	10.20	1677760	14.40	1480142	16.52
OP94206-MS	506436	4.79	2395131	5.91	1400939	8.01	2242898	10.21	1722577	14.40	1435081	16.52
JC20801-1	584865	4.79	2237988	5.91	1207279	8.01	1834463	10.20	1377752	14.40	1257335	16.52
JC20617-1	565996	4.79	2185594	5.91	1155549	8.01	1746757	10.20	1278711	14.39	1185448	16.52
OP94190-MS	547881	4.79	2133989	5.92	1100858	8.01	1672936	10.20	1309174	14.40	1217881	16.52
OP94190-MSD	563112	4.79	2233656	5.92	1134087	8.01	1741339	10.20	1336927	14.40	1243668	16.52
ZZZZZZ	609049	4.79	2345964	5.91	1227283	8.01	1809636	10.21	1526582	14.40	1446184	16.52
ZZZZZZ	520743	4.79	2015799	5.92	1136071	8.03	1782871	10.24	1839540	14.45	1853133	16.58

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

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	EF6610-CC6563	**Injection Date:**	05/13/16
Lab File ID:	F157059.D	**Injection Time:**	09:00
Instrument ID:	GCMSF	**Method:**	SW846 8270D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	528955	4.76	2136943	5.68	1244658	7.12	2015648	9.01	1869674	14.28	1726859	17.33
Upper Limit [a]	1057910	5.26	4273886	6.18	2489316	7.62	4031296	9.51	3739348	14.78	3453718	17.83
Lower Limit [b]	264478	4.26	1068472	5.18	622329	6.62	1007824	8.51	934837	13.78	863430	16.83

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP93867-MB1	569812	4.76	2281031	5.68	1367663	7.11	2234858	9.01	2110976	14.27	1998042	17.33
OP93867-BS1	622516	4.76	2743553	5.68	1418075	7.11	2246869	9.01	2011144	14.28	1829999	17.32
JC20098-1	610204	4.76	2508997	5.68	1443926	7.11	2350623	9.00	2155238	14.27	2039155	17.32
JC20098-4	637302	4.76	2558781	5.68	1488902	7.11	2421486	9.00	2229813	14.28	2101066	17.32
JC20098-5	544252	4.76	2274540	5.68	1339253	7.11	2172468	9.00	2066784	14.27	1962229	17.32
OP93867-MS	604529	4.76	2584986	5.68	1300500	7.11	2019882	9.00	1808891	14.28	1644569	17.32
OP93867-MSD	568786	4.76	2557222	5.68	1315572	7.11	2045305	9.00	1858493	14.28	1706422	17.32
JC20098-5	509618	4.76	2106640	5.68	1262523	7.11	2032539	9.00	1882304	14.27	1770113	17.32
JC19805-6	626878	4.76	2574733	5.68	1480308	7.11	2453634	9.00	2192456	14.27	2064774	17.32
ZZZZZZ	579865	4.76	2389828	5.68	1408054	7.11	2314166	9.00	2169006	14.27	2043045	17.32
ZZZZZZ	549493	4.76	2259401	5.68	1309941	7.11	2122821	9.00	1972543	14.27	1886065	17.32
ZZZZZZ	592059	4.76	2461833	5.68	1430420	7.11	2304516	9.00	2020142	14.27	1905986	17.32
ZZZZZZ	626223	4.76	2499675	5.68	1460524	7.11	2435746	9.00	2278155	14.29	2007374	17.34
ZZZZZZ	597903	4.76	2403438	5.68	1452452	7.11	2406284	9.01	2238214	14.29	1975982	17.34
ZZZZZZ	553088	4.76	2263695	5.68	1357386	7.11	2255350	9.00	2057119	14.28	1899399	17.33
ZZZZZZ	658651	4.76	2628892	5.68	1210498	7.11	2311410	9.00	1614733	14.28	374538*	17.32

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Surrogate Recovery Summary

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Method: SW846 8270D **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
JC20098-1	F157066.D	42	31	100	77	70	81
JC20098-4	F157067.D	47	36	96	76	77	80
JC20098-5	F157081.D	30	25	100	63	61	75
JC20098-5	F157068.D	39	29	95	71	63	77
OP93867-BS1	F157065.D	48	36	92	77	75	82
OP93867-MB1	F157064.D	44	30	92	81	68	85
OP93867-MS	F157069.D	58	54	88	67	70	70
OP93867-MSD	F157070.D	61	59	105	78	79	86

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	14-88%
S2 = Phenol-d5	10-110%
S3 = 2,4,6-Tribromophenol	39-149%
S4 = Nitrobenzene-d5	32-128%
S5 = 2-Fluorobiphenyl	35-119%
S6 = Terphenyl-d14	10-126%

Semivolatile Surrogate Recovery Summary

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

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
JC20098-2	3P53791.D	61	60	80	78	73	77
JC20098-3	3P53792.D	56	53	75	72	69	72
OP94085-BS1	2P59405.D	69	75	94	110	93	88
OP94085-MB1	2P59404.D	70	74	98	115	98	92
OP94085-MB1	6P26349.D	79	78	73	84	90	87
OP94085-MS	2P59422.D	52	59	69	93	73	70
OP94085-MSD	2P59423.D	61	67	84	98	83	82

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	30-106%
S2 = Phenol-d5	30-106%
S3 = 2,4,6-Tribromophenol	24-140%
S4 = Nitrobenzene-d5	26-122%
S5 = 2-Fluorobiphenyl	36-112%
S6 = Terphenyl-d14	36-132%

Semivolatile Surrogate Recovery Summary

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Method: SW846 8270D BY SIM **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
JC20098-1	3M61312.D	62	68	94
JC20098-4	3M61313.D	66	76	95
JC20098-5	3M61314.D	60	60	88
OP93867A-BS12	3M61298.D	37	33	49
OP93867A-MB1	3M61311.D	71	70	106
OP93867A-MS	3M61299.D	43	39	47
OP93867A-MSD	3M61300.D	40	38	48

Surrogate Compounds	Recovery Limits
S1 = Nitrobenzene-d5	24-125%
S2 = 2-Fluorobiphenyl	19-127%
S3 = Terphenyl-d14	10-119%

Semivolatile Surrogate Recovery Summary

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Method: SW846 8270D BY SIM **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
JC20098-2	4M65505.D	111	118	126
JC20098-3	4M65506.D	94	100	108
OP94085A-BS12	4M65502.D	125	126	139
OP94085A-MB1	4M65501.D	125	122	126
OP94085A-MS	4M65503.D	106	107	131
OP94085A-MSD	4M65504.D	118	116	133

Surrogate Compounds	Recovery Limits
S1 = Nitrobenzene-d5	15-138%
S2 = 2-Fluorobiphenyl	12-148%
S3 = Terphenyl-d14	10-157%

Initial Calibration Summary

Job Number: JC20098 **Sample:** E2P2547-ICC2547
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 2P58365.D
Project: BMSMC, Building 5 Area, PR

Response Factor Report MS2P

Method : C:\MSDCHEM\1\METHODS\M2P2547.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Apr 20 08:52:16 2016
Response via : Initial Calibration

Calibration Files
2 =2p58371.D 5 =2p58370.D 25 =2p58366.D 80 =2p58367.D
100 =2p58369.D 50 =2p58365.D 1 =2p58372.D 10 =2p58368.D

Compound	2	5	25	80	100	50	1	10	Avg	%RSD
1) I 1,4-Dichlorobenzene-d					ISTD					
2) 1,4-Dioxane	0.656	0.747	0.701	0.766	0.749	0.768	0.858	0.634	0.735	9.64
3) Pyridine	1.763	1.833	1.816	1.925	1.896	1.936	1.684	1.690	1.818	5.47
4) N-Nitrosodim	1.000	1.052	1.055	1.168	1.143	1.157	1.040	0.982	1.075	6.73
5) 2-Fluorophen	1.620	1.636	1.605	1.704	1.646	1.673	1.577	1.500	1.620	3.85
6) Indene	2.596	2.570	2.156	1.908	1.795	2.059	2.633	2.252	2.246	14.45
7) Cumene	3.687	3.745	3.502	3.479	3.366	3.583	3.642	3.370	3.547	3.98
8) Phenol-d5	1.894	2.007	1.873	1.918	1.867	1.937	1.910	1.782	1.899	3.39
9) Phenol	2.075	2.078	1.968	2.025	1.921	2.104	2.048	1.877	2.012	4.05
10) Aniline	2.529	2.523	2.295	2.124	2.053	2.207	2.506	2.248	2.311	8.13
11) bis(2-Chloro	1.493	1.527	1.389	1.298	1.242	1.382	1.641	1.372	1.418	9.12
12) 2-Chlorophen	1.622	1.609	1.450	1.332	1.301	1.419	1.565	1.443	1.468	8.26
13) Decane	2.481	2.498	2.171	1.851	1.724	2.058	2.539	2.167	2.186	13.97
14) 1,3-Dichloro	1.776	1.777	1.569	1.475	1.433	1.540	1.791	1.541	1.613	9.05
15) 1,4-Dichloro	1.753	1.731	1.527	1.454	1.403	1.491	1.810	1.531	1.588	9.69
16) Benzyl alcoh	1.009	1.035	0.902	0.827	0.782	0.889	1.035	0.875	0.919	10.51
17) 1,2-Dichloro	1.603	1.652	1.407	1.300	1.248	1.370	1.703	1.453	1.467	11.44
18) Acetophenone	2.136	2.088	1.717	1.489		1.584		1.799	1.802	14.60
19) 2-Methylphen	1.435	1.471	1.229	1.078	1.018	1.154	1.425	1.266	1.259	13.63
20) 2,2'-oxybis(	0.467	0.462	0.391	0.361	0.350	0.379	0.500	0.398	0.413	13.37
21) 3&4-Methylph	1.493	1.532	1.273	1.108	1.053	1.181	1.536	1.337	1.314	14.65
22) n-Nitroso-di	1.086	1.104	0.878	0.776		0.821	1.097	0.938	0.957	14.52
23) Hexachloroet	0.528	0.513	0.461	0.452	0.447	0.454	0.537	0.463	0.482	7.79
24) I Naphthalene-d8					ISTD					
25) Nitrobenzene	0.414	0.444	0.381	0.369	0.353	0.375	0.435	0.383	0.394	8.37
26) Nitrobenzene	0.453	0.450	0.381	0.357	0.340	0.370	0.439	0.394	0.398	11.05
27) Quinoline	0.779	0.769	0.671	0.681	0.664	0.660	0.773	0.677	0.709	7.57
28) Isophorone	0.756	0.802	0.684	0.670	0.653	0.671	0.776	0.688	0.713	7.94
29) 2-Nitropheno	0.198	0.215	0.196	0.192	0.182	0.193	0.203	0.195	0.197	4.79
30) 2,4-Dimethyl	0.379	0.390	0.335	0.327	0.306	0.320	0.388	0.354	0.350	9.32
31) Benzoic acid	0.249	0.272	0.287	0.308	0.303	0.297	0.211	0.265	0.274	11.82
32) bis(2-Chloro	0.496	0.508	0.421	0.397	0.378	0.406	0.505	0.436	0.443	11.79
33) 2,4-Dichloro	0.312	0.334	0.293	0.288	0.278	0.288	0.322	0.293	0.301	6.46
34) 2,6-Dichloro	0.318	0.321	0.266	0.261	0.250	0.260	0.316	0.277	0.284	10.45
35) 1,3,5-Trichl	0.382	0.385	0.326	0.313	0.307	0.320	0.394	0.339	0.346	10.28
36) 1,2,4-Trichl	0.364	0.367	0.312	0.306	0.298	0.310	0.372	0.325	0.332	9.29
37) 1,2,3-Trichl	0.337	0.342	0.294	0.277	0.271	0.283	0.365	0.299	0.309	11.27
38) Naphthalene	1.171	1.169	0.978	0.908	0.871	0.931	1.199	1.016	1.030	12.75
39) 4-Chloroanil	0.492	0.525	0.429	0.391	0.368	0.406	0.513	0.439	0.445	13.11
40) 2,3-Dichloro	0.408	0.418	0.350	0.332	0.319	0.335	0.429	0.361	0.369	11.66
41) Caprolactam	0.118	0.125	0.112	0.117	0.115	0.112	0.114	0.110	0.115	3.93
42) Hexachlorobu	0.178	0.175	0.154	0.158	0.156	0.156	0.181	0.154	0.164	7.14
43) 4-Chloro-3-m	0.327	0.345	0.297	0.297	0.285	0.296	0.328	0.297	0.309	6.95
44) 2-Methylnaph	0.622	0.632	0.556	0.540	0.521	0.542	0.634	0.558	0.576	8.00
45) 1-Methylnaph	0.639	0.661	0.568	0.545	0.520	0.558	0.648	0.582	0.590	8.91

```
46) Dimethylnaph 0.662 0.652 0.550 0.520 0.505 0.522 0.678 0.562 0.581  12.19

47) I   Acenaphthene-d10      ----------------ISTD---------------------
48) Hexachlorocy 0.284 0.323 0.333 0.346 0.349 0.349 0.279 0.312 0.322   8.80
49) 2,4,6-Trichl 0.391 0.406 0.358 0.347 0.339 0.365 0.391 0.362 0.370   6.41
50) 2,4,5-Trichl 0.421 0.442 0.383 0.379 0.375 0.388 0.413 0.387 0.398   5.99
51) 2-Fluorobiph 1.380 1.374 1.174 1.118 1.109 1.183 1.432 1.186 1.245  10.37
52) 2-Chloronaph 1.348 1.321 1.099 1.010 0.996 1.091 1.370 1.156 1.174  12.95
53) Biphenyl     1.662 1.640 1.409 1.293 1.279 1.389 1.679 1.437 1.473  11.13
54) 2-Nitroanili 0.429 0.446 0.401 0.379 0.384 0.399 0.433 0.392 0.408   6.06
55) Dimethylphth 1.385 1.369 1.208 1.169 1.177 1.221 1.459 1.208 1.275   8.77
56) Acenaphthyle 2.101 2.136 1.810 1.744 1.694 1.838 2.107 1.857 1.911   9.24
57) 2,6-Dinitrot 0.261 0.284 0.279 0.274 0.271 0.283 0.247 0.265 0.270   4.64
58) 3-Nitroanili 0.365 0.395 0.350 0.347 0.344 0.354 0.351 0.350 0.357   4.68
59) Acenaphthene 1.295 1.284 1.123 1.063 1.042 1.112 1.332 1.114 1.171   9.77
60) 2,4-Dinitrop 0.055 0.084 0.128 0.151 0.156 0.146 0.040 0.099 0.107  41.83
         ----- Quadratic regression -----                Coefficient =  0.9997
              Response Ratio = -0.01173 + 0.13704 *A + 0.00428 *A^2

61) 4-Nitropheno 0.161 0.172 0.168 0.165 0.165 0.174 0.132 0.155 0.162   8.21
62) Dibenzofuran 1.722 1.739 1.464 1.367 1.334 1.443 1.806 1.505 1.547  11.76
63) 2,4-Dinitrot 0.351 0.379 0.363 0.359 0.355 0.367 0.305 0.357 0.354   6.20
64) 2,3,4,6-Tetr 0.308 0.314 0.288 0.308 0.316 0.305 0.301 0.285 0.303   3.67
65) Diethylphtha 1.405 1.403 1.242 1.193 1.178 1.237 1.456 1.230 1.293   8.48
66) Fluorene     1.413 1.441 1.223 1.166 1.132 1.217 1.457 1.235 1.285  10.15
67) 4-Chlorophen 0.622 0.615 0.522 0.518 0.513 0.526 0.642 0.538 0.562   9.67
68) 4-Nitroanili 0.368 0.406 0.353 0.337 0.331 0.346 0.326 0.354 0.353   7.19

69) I   Phenanthrene-d10      ----------------ISTD---------------------
70) 4,6-Dinitro-       0.097 0.122 0.129 0.127 0.125       0.101 0.117  11.88
71) n-Nitrosodip 0.619 0.605 0.520 0.491 0.477 0.502 0.604 0.515 0.542  10.67
72) 1,2-Diphenyl 1.001 1.010 0.848 0.738 0.698 0.802 0.995 0.874 0.871  14.01
73) 2,4,6-Tribro 0.091 0.091 0.087 0.093 0.094 0.088 0.084 0.082 0.089   4.89
74) 4-Bromopheny 0.217 0.207 0.191 0.204 0.204 0.195 0.220 0.190 0.204   5.56
75) Hexachlorobe 0.232 0.229 0.203 0.215 0.214 0.208 0.242 0.202 0.218   6.80
76) Pentachlorop 0.132 0.147 0.149 0.164 0.162 0.155 0.130 0.139 0.147   8.77
77) Phenanthrene 1.311 1.294 1.114 1.092 1.047 1.093 1.360 1.087 1.175  10.60
78) Anthracene   1.286 1.284 1.131 1.085 1.033 1.097 1.296 1.110 1.165   9.09
79) Carbazole    1.185 1.188 1.056 1.029 0.999 1.036 1.235 1.037 1.096   8.32
80) Di-n-butylph 1.522 1.566 1.460 1.426 1.394 1.446 1.446 1.403 1.458   4.04
81) Fluoranthene 1.295 1.297 1.256 1.317 1.286 1.286 1.300 1.170 1.276   3.62
82) Octadecane   0.574 0.600 0.530 0.438 0.395 0.493 0.549 0.535 0.514  13.38

83) I   Chrysene-d12          ----------------ISTD---------------------
84) Pyrene       1.440 1.476 1.342 1.331 1.302 1.345 1.513 1.297 1.381   6.02
85) Terphenyl-d1 0.823 0.831 0.782 0.809 0.819 0.792 0.839 0.746 0.805   3.81
86) Butylbenzylp 0.659 0.708 0.691 0.694 0.683 0.700 0.642 0.642 0.677   3.86
87) Butyl steara 0.577 0.628 0.629 0.560 0.524 0.609 0.512 0.594 0.579   7.69
88) Benzo[a]anth 1.321 1.347 1.224 1.271 1.250 1.241 1.391 1.164 1.276   5.74
89) 3,3'-Dichlor 0.415 0.454 0.423 0.461 0.457 0.437 0.405 0.403 0.432   5.47
90) Chrysene     1.215 1.254 1.096 1.101 1.083 1.107 1.301 1.075 1.154   7.68
91) bis(2-Ethylh 0.854 0.924 0.873 0.829 0.800 0.864 0.791 0.842 0.847   5.04

92) I   Perylene-d12          ----------------ISTD---------------------
93) Di-n-octylph 1.631 1.928 1.945 1.931 1.896 1.956 1.476 1.791 1.819   9.73
94) Benzo[b]fluo 1.349 1.453 1.340 1.446 1.469 1.399 1.380 1.281 1.390   4.68
95) Benzo[k]fluo 1.294 1.334 1.207 1.145 1.098 1.163 1.289 1.182 1.214   6.85
96) Benzo[a]pyre 1.183 1.261 1.165 1.217 1.205 1.171 1.144 1.088 1.179   4.38
97) Indeno[1,2,3 0.958 1.041 1.012 1.106 1.128 1.036 0.956 0.922 1.020   7.17
98) Dibenz(a,h)a 0.863 1.018 0.897 0.980 1.005 0.931 0.873 0.872 0.930   6.82
```

Initial Calibration Summary

Job Number: JC20098 **Sample:** E2P2547-ICC2547
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 2P58365.D
Project: BMSMC, Building 5 Area, PR

```
 99) Dibenz[a,h]a 0.985 1.044 1.019 1.065 1.074 1.040 1.019 0.924 1.021   4.71
100) 7,12-Dimethy 0.550 0.576 0.577 0.599 0.598 0.586 0.514 0.532 0.566   5.55
101) Benzo[g,h,i] 1.061 1.113 1.056 1.123 1.129 1.091 1.072 0.981 1.078   4.48
 ---------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

          M2P2547.M         Wed Apr 20 16:49:58 2016   RPT1
```

Initial Calibration Verification

Job Number: JC20098 **Sample:** E2P2548-ICV2547
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 2P58384.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\2P2548\2p58384.D          Vial: 12
Acq On    : 19 Apr 2016  11:51 pm                   Operator: sarad
Sample    : icv2547-50                              Inst    : MS2P
Misc      : op92038,e2p2548                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M2P2547.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Wed Apr 20 08:52:16 2016
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	109	0.00	4.91
5	S	2-Fluorophenol	1.620	1.522	6.0	99	0.00	3.80
8	S	Phenol-d5	1.899	1.747	8.0	98	0.00	4.60
24	I	Naphthalene-d8	1.000	1.000	0.0	111	0.00	5.97
25	S	Nitrobenzene-d5	0.394	0.391	0.8	116	0.00	5.37
47	I	Acenaphthene-d10	1.000	1.000	0.0	105	0.00	7.41
51	S	2-Fluorobiphenyl	1.245	1.365	-9.6	121	0.00	6.86
		----------	AvgRF	CCRF	% Dev	----------		
69	I	Phenanthrene-d10	1.000	1.000	0.0	98	0.00	8.76
73	S	2,4,6-Tribromophenol	0.089	0.085	4.5	94	0.00	8.09
83	I	Chrysene-d12	1.000	1.000	0.0	91	0.00	12.13
85	S	Terphenyl-d14	0.805	0.870	-8.1	100	0.00	10.68
92	I	Perylene-d12	1.000	1.000	0.0	85	0.00	14.14

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2p58365aa.D M2P2547.M Wed Apr 20 16:36:21 2016 RPT1

Initial Calibration Verification

Job Number: JC20098 **Sample:** E2P2548-ICV2547
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 2P58385.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\2P2548\2p58385.D Vial: 13
Acq On : 20 Apr 2016 12:14 am Operator: sarad
Sample : icv2547-50 Inst : MS2P
Misc : op92038,e2p2548 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M2P2547.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Apr 20 08:52:16 2016
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	92	0.00	4.92
4	t	N-Nitrosodimethylamine	1.075	1.016	5.5	81	-0.02	2.56
11	t	bis(2-Chloroethyl)ether	1.418	1.548	-9.2	103	0.00	4.70
14	t	1,3-Dichlorobenzene	1.613	1.691	-4.8	101	0.00	4.86
15	t	1,4-Dichlorobenzene	1.588	1.647	-3.7	102	0.00	4.93
17	t	1,2-Dichlorobenzene	1.467	1.526	-4.0	102	0.00	5.05
20	t	2,2'-oxybis(1-Chloropropa	0.413	0.394	4.6	95	0.00	5.15
22	t	n-Nitroso-di-n-propylamin	0.957	0.928	3.0	104	0.00	5.25
23	t	Hexachloroethane	0.482	0.480	0.4	97	0.00	5.33
24	I	Naphthalene-d8	1.000	1.000	0.0	88	0.00	5.97
26	t	Nitrobenzene	0.398	0.389	2.3	92	0.00	5.39
28	t	Isophorone	0.713	0.721	-1.1	94	0.00	5.59
32	t	bis(2-Chloroethoxy)methan	0.443	0.442	0.2	96	0.00	5.77
36	t	1,2,4-Trichlorobenzene	0.332	0.339	-2.1	96	0.00	5.92
38	t	Naphthalene	1.030	1.055	-2.4	100	0.00	5.99
42	t	Hexachlorobutadiene	0.164	0.172	-4.9	97	0.00	6.09
47	I	Acenaphthene-d10	1.000	1.000	0.0	85	0.00	7.41
48	t	Hexachlorocyclopentadiene	0.322	0.304	5.6	74	0.00	6.69
52	t	2-Chloronaphthalene	1.174	1.278	-8.9	99	0.00	6.96
55	t	Dimethylphthalate	1.275	1.307	-2.5	91	0.00	7.19
56	t	Acenaphthylene	1.911	1.888	1.2	87	0.00	7.30
57	t	2,6-Dinitrotoluene	0.270	0.279	-3.3	83	0.00	7.24
59	t	Acenaphthene	1.171	1.201	-2.6	91	0.00	7.44
		----------	AvgRF	CCRF	% Dev	----------		
63	t	2,4-Dinitrotoluene	0.354	0.339	4.2	78	0.00	7.57
65	t	Diethylphthalate	1.293	1.290	0.2	88	0.00	7.78
66	t	Fluorene	1.285	1.221	5.0	85	0.00	7.88
67	t	4-Chlorophenyl-phenylethe	0.562	0.538	4.3	87	0.00	7.88
69	I	Phenanthrene-d10	1.000	1.000	0.0	83	0.00	8.76
71	t	n-Nitrosodiphenylamine	0.542	0.551	-1.7	91	0.00	7.98
72	t	1,2-Diphenylhydrazine	0.871	0.846	2.9	87	0.00	8.02
74	t	4-Bromophenyl-phenylether	0.204	0.207	-1.5	88	0.00	8.32
75	t	Hexachlorobenzene	0.218	0.211	3.2	84	0.00	8.37
77	t	Phenanthrene	1.175	1.182	-0.6	90	0.00	8.79
78	t	Anthracene	1.165	1.146	1.6	86	0.00	8.84
80	t	Di-n-butylphthalate	1.458	1.426	2.2	82	0.00	9.42
81	t	Fluoranthene	1.276	1.260	1.3	81	0.00	10.15

Initial Calibration Verification

Job Number: JC20098 **Sample:** E2P2548-ICV2547
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 2P58385.D
Project: BMSMC, Building 5 Area, PR

83	I	Chrysene-d12	1.000	1.000	0.0	77	0.00	12.14
84	t	Pyrene	1.381	1.451	-5.1	83	0.00	10.44
86	t	Butylbenzylphthalate	0.677	0.694	-2.5	76	0.00	11.40
88	t	Benzo[a]anthracene	1.276	1.274	0.2	79	0.00	12.12
90	t	Chrysene	1.154	1.169	-1.3	81	0.00	12.17
91	t	bis(2-Ethylhexyl)phthalat	0.847	0.874	-3.2	78	0.00	12.28
92	I	Perylene-d12	1.000	1.000	0.0	76	0.00	14.14
93	t	Di-n-octylphthalate	1.819	1.855	-2.0	72	0.00	13.23
94	t	Benzo[b]fluoranthene	1.390	1.380	0.7	75	0.00	13.64
95	t	Benzo[k]fluoranthene	1.214	1.325	-9.1	87	0.01	13.68
96	t	Benzo[a]pyrene	1.179	1.276	-8.2	83	0.01	14.07
97	t	Indeno[1,2,3-cd]pyrene	1.020	1.135	-11.3	83	0.01	15.69
99	t	Dibenz[a,h]anthracene	1.021	1.133	-11.0	83	0.00	15.74
101	t	Benzo[g,h,i]perylene	1.078	1.182	-9.6	83	0.02	16.13

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2p58365aa.D M2P2547.M Wed Apr 20 16:36:23 2016 RPT1

6.7.3

6

Initial Calibration Verification

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E2P2548-ICV2547
Lab FileID: 2P58386.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\2P2548\2p58386.D          Vial: 14
Acq On    : 20 Apr 2016  12:36 am                   Operator: sarad
Sample    : icv2547-50                              Inst    : MS2P
Misc      : op92038,e2p2548                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M2P2547.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Wed Apr 20 08:52:16 2016
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	100	0.00	4.91
2	t	1,4-Dioxane	0.735	0.634	13.7	83	0.00	2.26
6	t	Indene	2.246	2.335	-4.0	113	0.00	5.12
7	t	Cumene	3.547	3.280	7.5	92	0.00	4.24
13	t	Decane	2.186	1.991	8.9	97	0.00	4.78
18	t	Acetophenone	1.802	1.785	0.9	113	0.00	5.25
24	I	Naphthalene-d8	1.000	1.000	0.0	104	0.00	5.97
27	t	Quinoline	0.709	0.640	9.7	101	0.00	6.26
40	t	2,3-Dichloroaniline	0.369	0.279	24.4	87	0.00	6.79
41	t	Caprolactam	0.115	0.100	13.0	92	0.01	6.31
45	t	1-Methylnaphthalene	0.590	0.522	11.5	98	0.00	6.64
46	t	Dimethylnaphthalene	0.581	0.506	12.9	101	0.00	7.07
47	I	Acenaphthene-d10	1.000	1.000	0.0	97	0.00	7.41
53	t	Biphenyl	1.473	1.457	1.1	102	0.00	6.94
		----------	AvgRF	CCRF	% Dev	----------		
69	I	Phenanthrene-d10	1.000	1.000	0.0	93	0.00	8.76
82	t	Octadecane	0.514	0.477	7.2	90	0.00	8.66
83	I	Chrysene-d12	1.000	1.000	0.0	92	0.00	12.13
92	I	Perylene-d12	1.000	1.000	0.0	85	0.00	14.14
100	t	7,12-Dimethylbenz(a)anthr	0.566	0.539	4.8	78	0.00	13.64

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2p58365aa.D M2P2547.M Wed Apr 20 16:36:27 2016 RPT1

Initial Calibration Verification

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E2P2548-ICV2547
Lab FileID: 2P58388.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\2P2548\2p58388.D          Vial: 16
Acq On    : 20 Apr 2016   1:21 am                   Operator: sarad
Sample    : icv2547-50                              Inst    : MS2P
Misc      : op92038,e2p2548                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M2P2547.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Wed Apr 20 08:52:16 2016
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	127	0.00	12.13
89	t	3,3'-Dichlorobenzidine	0.432	0.379	12.3	110	0.00	12.12

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2p58365aa.D M2P2547.M Wed Apr 20 16:36:33 2016 RPT1

Initial Calibration Verification

Job Number: JC20098 **Sample:** E2P2549-ICV2547
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 2P58391.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\2P2549\2p58391.D          Vial: 2
Acq On    : 20 Apr 2016   9:53 am                   Operator: robertl1
Sample    : ICV2547-50                              Inst    : MS2P
Misc      : op92038,e2p2549                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M2P2547.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Wed Apr 20 08:52:16 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	102	-0.02	4.89
9	t	Phenol	2.012	1.745	13.3	85	-0.01	4.60
12	t	2-Chlorophenol	1.468	1.387	5.5	100	-0.02	4.71
19	t	2-Methylphenol	1.259	1.217	3.3	108	-0.02	5.10
21	t	3&4-Methylphenol	1.314	1.257	4.3	109	-0.02	5.23
24	I	Naphthalene-d8	1.000	1.000	0.0	97	-0.02	5.95
29	t	2-Nitrophenol	0.197	0.198	-0.5	100	-0.02	5.63
30	t	2,4-Dimethylphenol	0.350	0.349	0.3	106	-0.02	5.67
31	t	Benzoic acid	0.274	0.290	-5.8	95	0.05	5.77
33	t	2,4-Dichlorophenol	0.301	0.299	0.7	101	-0.02	5.83
34	t	2,6-Dichlorophenol	0.284	0.285	-0.4	107	-0.02	6.02
43	t	4-Chloro-3-methylphenol	0.309	0.290	6.1	95	-0.02	6.40
47	I	Acenaphthene-d10	1.000	1.000	0.0	105	-0.02	7.40
49	t	2,4,6-Trichlorophenol	0.370	0.365	1.4	105	-0.02	6.77
50	t	2,4,5-Trichlorophenol	0.398	0.363	8.8	99	-0.02	6.79
		----------	True	Calc.	% Drift	----------		
60	t	2,4-Dinitrophenol	50.000	57.451	-14.9	112	-0.02	7.44
		----------	AvgRF	CCRF	% Dev	----------		
61	t	4-Nitrophenol	0.162	0.165	-1.9	100	-0.02	7.49
64		2,3,4,6-Tetrachlorophenol	0.303	0.290	4.3	100	-0.02	7.67
69	I	Phenanthrene-d10	1.000	1.000	0.0	103	-0.02	8.74
70	t	4,6-Dinitro-2-methylpheno	0.117	0.132	-12.8	108	-0.02	7.90
76	t	Pentachlorophenol	0.147	0.146	0.7	96	-0.02	8.54

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2p58365aa.D M2P2547.M Wed Apr 20 17:38:45 2016 RPT1

Initial Calibration Verification

Job Number: JC20098 **Sample:** E2P2549-ICV2547
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 2P58392.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\2P2549\2p58392.D          Vial: 3
Acq On    : 20 Apr 2016  10:16 am                   Operator: robertl1
Sample    : ICV2547-50                              Inst    : MS2P
Misc      : op92038,e2p2549                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M2P2547.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Wed Apr 20 08:52:16 2016
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	109	-0.02	4.89
3	t	Pyridine	1.818	1.589	12.6	89	0.05	2.67
10		Aniline	2.311	2.060	10.9	102	-0.01	4.63
16	t	Benzyl alcohol	0.919	0.860	6.4	105	-0.01	5.01
24	I	Naphthalene-d8	1.000	1.000	0.0	114	-0.02	5.95
39	t	4-Chloroaniline	0.445	0.395	11.2	111	-0.02	6.01
44	t	2-Methylnaphthalene	0.576	0.496	13.9	104	-0.02	6.54
47	I	Acenaphthene-d10	1.000	1.000	0.0	112	-0.02	7.40
54	t	2-Nitroaniline	0.408	0.368	9.8	103	-0.02	7.02
58	t	3-Nitroaniline	0.357	0.330	7.6	104	-0.02	7.36
		----------	AvgRF	CCRF	% Dev	----------		
62	t	Dibenzofuran	1.547	1.417	8.4	110	-0.02	7.56
68	t	4-Nitroaniline	0.353	0.301	14.7	97	-0.02	7.87
69	I	Phenanthrene-d10	1.000	1.000	0.0	113	-0.02	8.74
79	t	Carbazole	1.096	0.997	9.0	109	-0.02	8.99

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2p58365aa.D M2P2547.M Wed Apr 20 17:38:47 2016 RPT1

Initial Calibration Summary

Job Number: JC20098 **Sample:** E2P2557-ICC2557
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 2P58525.D
Project: BMSMC, Building 5 Area, PR

Response Factor Report MS2P

```
Method       : C:\msdchem\1\METHODS\M2P2557eph.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Mon Apr 25 15:59:04 2016
Response via : Initial Calibration

Calibration Files
2   =2p58532a.D  5   =2p58530a.D  25  =2p58526a.D  80  =2p58527a.D
100 =2p58529a.D  50  =2p58525a.D  1   =2p58531a.D  10  =2p58528a.D

 Compound          2     5     25    80    100   50    1     10    Avg %RSD
 ---------------------------------------------------------------------------
102) I   1,4-Dichlorobenzene-d ----------------ISTD---------------------
103) Benzaldehyde 1.070 1.042 1.024 0.991 0.968 1.063 1.103 1.084 1.043   4.45

104) I   Naphthalene-d8       ----------------ISTD---------------------
105) Hydroquinone 0.342 0.348 0.377 0.357 0.371 0.376 0.353 0.381 0.363   4.12

106) I   Acenaphthene-d10     ----------------ISTD---------------------
107) Atrazine     0.154 0.157 0.159 0.148 0.149 0.155 0.145 0.167 0.154   4.64
108) 1,2,4,5-Tetr 0.494 0.496 0.497 0.479 0.474 0.498 0.491 0.547 0.497   4.46

109) I   Chrysene-d12         ----------------ISTD---------------------
110) Benzidine    0.283 0.266 0.127 0.279 0.360 0.072 0.151 0.224 0.220  43.65

111) I   Phenanthrene-d10     ----------------ISTD---------------------
112) 1-chloroocta 0.466 0.461 0.471 0.415 0.413 0.448 0.461 0.501 0.455   6.44
113) O-terphenyl  0.501 0.504 0.505 0.478 0.473 0.485 0.496 0.541 0.498   4.24

114) I   Chrysene-d12b        ----------------ISTD---------------------
115) 2,3,7,8-TCDD                                                0.000# -1.00
 ---------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

          M2P2557eph.M        Mon Apr 25 17:39:27 2016   RPT1
```

Initial Calibration Verification

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E2P2557-ICV2557
Lab FileID: 2P58534.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\2P2557\2p58534.D          Vial: 11
Acq On    : 25 Apr 2016   1:51 pm                   Operator: robertl1
Sample    : ICV2557-50                              Inst    : MS2P
Misc      : op92038,e2p2557                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\msdchem\1\METHODS\M2P2557eph.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Mon Apr 25 15:59:04 2016
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-d8a	1.000	1.000	0.0	99	-0.10	5.87
105	Hydroquinone	0.363	0.373	-2.8	98	-0.10	6.21

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2p58525a.D M2P2557eph.M Mon Apr 25 17:57:17 2016 RPT1

Initial Calibration Verification

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E2P2557-ICV2557
Lab FileID: 2P58536A.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\2P2557\2p58536a.D          Vial: 13
Acq On    : 25 Apr 2016   4:09 pm                    Operator: robertl1
Sample    : ICV2557-50                               Inst    : MS2P
Misc      : op92038,e2p2557                          Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\msdchem\1\METHODS\M2P2557eph.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Mon Apr 25 15:59:04 2016
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	103	-0.10	4.81
103	Benzaldehyde	1.043	1.109	-6.3	107	-0.10	4.45
106 I	Acenaphthene-d10a	1.000	1.000	0.0	85	-0.10	7.31
107	Atrazine	0.154	0.168	-9.1	92	-0.11	8.38

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2p58525a.D M2P2557eph.M Mon Apr 25 17:57:21 2016 RPT1

Initial Calibration Verification

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E2P2559-ICV2557
Lab FileID: 2P58540.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\2P2559\2p58540.D          Vial: 2
Acq On    : 25 Apr 2016   6:59 pm                   Operator: ashleyn
Sample    : icv2557-50                              Inst    : MS2P
Misc      : op92038,e2p2559                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M2P2557EPH.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Mon Apr 25 15:59:04 2016
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.
106	I	Acenaphthene-d10a	1.000	1.000	0.0	77	-0.11	7.31
108		1,2,4,5-Tetrachlorobenzen	0.497	0.602	-21.1	93	-0.11	6.59
109	I	Chrysene-d12a	1.000	1.000	0.0	74	-0.16	11.98
110		Benzidine	0.220	0.422	-91.8#	439#	-0.14	10.20

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2p58525a.D M2P2557EPH.M Mon Apr 25 19:21:58 2016 RPT1

Continuing Calibration Summary

Job Number: JC20098 **Sample:** E2P2594-CC2547
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 2P59401A.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\2P2594\2p59401A.D          Vial: 2
Acq On    : 20 May 2016   7:37 pm                    Operator: seanb1
Sample    : cc2547-25                                Inst    : MS2P
Misc      : op94078,e2p2594                          Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M2P2557.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Mon Apr 25 15:59:04 2016
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	77	0.00	4.76
2	t	1,4-Dioxane	0.735	0.536	27.1#	59	0.00	2.08
3	t	Pyridine	1.818	1.256	30.9#	53	0.00	2.42
4	t	N-Nitrosodimethylamine	1.075	0.692	35.6#	51	0.03	2.40
5	S	2-Fluorophenol	1.620	1.287	20.6#	62	0.03	3.70
6	t	Indene	2.246	2.064	8.1	74	0.00	4.98
7	t	Cumene	3.547	3.622	-2.1	80	-0.03	4.08
8	S	Phenol-d5	1.899	1.549	18.4	64	0.00	4.52
9	t	Phenol	2.012	1.669	17.0	65	0.00	4.53
10		Aniline	2.311	1.667	27.9#	56	0.00	4.50
11	t	bis(2-Chloroethyl)ether	1.418	1.213	14.5	67	0.00	4.56
12	t	2-Chlorophenol	1.468	1.243	15.3	66	0.02	4.61
13	t	Decane	2.186	1.478	32.4#	53	0.00	4.62
14	t	1,3-Dichlorobenzene	1.613	1.438	10.8	71	0.00	4.72
15	t	1,4-Dichlorobenzene	1.588	1.444	9.1	73	0.00	4.78
16	t	Benzyl alcohol	0.919	0.776	15.6	66	0.02	4.90
17	t	1,2-Dichlorobenzene	1.467	1.352	7.8	74	0.00	4.90
18	t	Acetophenone	1.802	1.853	-2.8	83	0.02	5.11
19	t	2-Methylphenol	1.259	1.058	16.0	66	0.04	5.02
20	t	2,2'-oxybis(1-Chloropropa	0.413	0.396	4.1	78	0.01	5.00
21	t	3&4-Methylphenol	1.314	1.140	13.2	69	0.03	5.14
22	t	n-Nitroso-di-n-propylamin	0.957	1.018	-6.4	90	0.00	5.11
23	t	Hexachloroethane	0.482	0.558	-15.8	93	0.00	5.18
24	I	Naphthalene-d8	1.000	1.000	0.0	73	0.00	5.82
25	S	Nitrobenzene-d5	0.394	0.491	-24.6#	94	0.05	5.23
26	t	Nitrobenzene	0.398	0.488	-22.6#	93	0.00	5.25
27	t	Quinoline	0.709	0.627	11.6	68	0.01	6.12
28	t	Isophorone	0.713	0.762	-6.9	81	0.00	5.44
29	t	2-Nitrophenol	0.197	0.208	-5.6	78	0.00	5.51
30	t	2,4-Dimethylphenol	0.350	0.359	-2.6	78	0.03	5.57
31	t	Benzoic acid	0.274	0.208	24.1#	53	0.00	5.68
32	t	bis(2-Chloroethoxy)methan	0.443	0.395	10.8	68	0.00	5.63
33	t	2,4-Dichlorophenol	0.301	0.284	5.6	71	0.03	5.73
34	t	2,6-Dichlorophenol	0.284	0.294	-3.5	80	0.02	5.90
35		1,3,5-Trichlorobenzene	0.346	0.373	-7.8	83	0.00	5.51
36	t	1,2,4-Trichlorobenzene	0.332	0.339	-2.1	79	0.00	5.77
37		1,2,3-Trichlorobenzene	0.309	0.333	-7.8	83	0.00	5.96
38	t	Naphthalene	1.030	0.969	5.9	72	0.00	5.84
39	t	4-Chloroaniline	0.445	0.385	13.5	65	0.02	5.90
40	t	2,3-Dichloroaniline	0.369	0.380	-3.0	79	0.03	6.65
41	t	Caprolactam	0.115	0.106	7.8	69	0.05	6.19

Continuing Calibration Summary

Job Number: JC20098 **Sample:** E2P2594-CC2547
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 2P59401A.D
Project: BMSMC, Building 5 Area, PR

42	t	Hexachlorobutadiene	0.164	0.223	-36.0#	105	0.00	5.94
43	t	4-Chloro-3-methylphenol	0.309	0.330	-6.8	81	0.06	6.33
44	t	2-Methylnaphthalene	0.576	0.570	1.0	75	0.00	6.41
45	t	1-Methylnaphthalene	0.590	0.604	-2.4	78	0.01	6.49
46	t	Dimethylnaphthalene	0.581	0.592	-1.9	78	0.02	6.92
47	I	Acenaphthene-d10	1.000	1.000	0.0	83	0.00	7.27
48	t	Hexachlorocyclopentadiene	0.322	0.280	13.0	70	-0.03	6.53
49	t	2,4,6-Trichlorophenol	0.370	0.363	1.9	84	0.00	6.66
50	t	2,4,5-Trichlorophenol	0.398	0.404	-1.5	87	0.00	6.71
51	S	2-Fluorobiphenyl	1.245	1.214	2.5	86	-0.01	6.71
52	t	2-Chloronaphthalene	1.174	1.054	10.2	80	0.00	6.81
53	t	Biphenyl	1.473	1.371	6.9	81	-0.01	6.79
54	t	2-Nitroaniline	0.408	0.498	-22.1#	103	0.00	6.91
55	t	Dimethylphthalate	1.275	1.258	1.3	86	0.00	7.05
56	t	Acenaphthylene	1.911	1.640	14.2	75	0.00	7.15
57	t	2,6-Dinitrotoluene	0.270	0.274	-1.5	82	0.01	7.11
58	t	3-Nitroaniline	0.357	0.294	17.6	70	0.00	7.25
59	t	Acenaphthene	1.171	1.064	9.1	79	0.00	7.29
		----------	True	Calc.	% Drift	----------		
60	t	2,4-Dinitrophenol	50.000	43.553	12.9	74	0.01	7.34
		----------	AvgRF	CCRF	% Dev	----------		
61	t	4-Nitrophenol	0.162	0.259	-59.9#	128	0.00	7.44
62	t	Dibenzofuran	1.547	1.540	0.5	87	0.00	7.43
63	t	2,4-Dinitrotoluene	0.354	0.374	-5.6	86	0.05	7.44
64		2,3,4,6-Tetrachlorophenol	0.303	0.285	5.9	82	0.02	7.55
65	t	Diethylphthalate	1.293	1.315	-1.7	88	0.00	7.63
66	t	Fluorene	1.285	1.266	1.5	86	0.00	7.72
67	t	4-Chlorophenyl-phenylethe	0.562	0.647	-15.1	103	0.00	7.72
68	t	4-Nitroaniline	0.353	0.260	26.3#	61	0.00	7.76
69	I	Phenanthrene-d10	1.000	1.000	0.0	94	0.00	8.59
70	t	4,6-Dinitro-2-methylpheno	0.117	0.123	-5.1	95	0.06	7.79
71	t	n-Nitrosodiphenylamine	0.542	0.473	12.7	86	0.00	7.83
72	t	1,2-Diphenylhydrazine	0.871	0.875	-0.5	97	0.00	7.86
73	S	2,4,6-Tribromophenol	0.089	0.095	-6.7	103	0.00	7.94
74	t	4-Bromophenyl-phenylether	0.204	0.214	-4.9	106	0.00	8.15
75	t	Hexachlorobenzene	0.218	0.227	-4.1	106	0.00	8.21
76	t	Pentachlorophenol	0.147	0.097	34.0#	61	0.02	8.42
77	t	Phenanthrene	1.175	1.006	14.4	85	0.00	8.61
78	t	Anthracene	1.165	0.999	14.2	83	0.00	8.66
79	t	Carbazole	1.096	0.905	17.4	81	0.02	8.84
80	t	Di-n-butylphthalate	1.458	1.324	9.2	85	0.00	9.22
81	t	Fluoranthene	1.276	1.290	-1.1	97	0.00	9.96
82	t	Octadecane	0.514	0.539	-4.9	96	0.01	8.48
83	I	Chrysene-d12	1.000	1.000	0.0	106	0.00	11.94
84	t	Pyrene	1.381	1.169	15.4	93	-0.02	10.25
85	S	Terphenyl-d14	0.805	0.772	4.1	105	0.07	10.47
86	t	Butylbenzylphthalate	0.677	0.560	17.3	86	-0.03	11.18
87		Butyl stearate	0.579	0.365	37.0#	62	0.05	11.31
88	t	Benzo[a]anthracene	1.276	1.200	6.0	104	0.00	11.92
89	t	3,3'-Dichlorobenzidine	0.432	0.435	-0.7	109	0.05	11.92
90	t	Chrysene	1.154	1.022	11.4	99	0.00	11.97
91	t	bis(2-Ethylhexyl)phthalat	0.847	0.727	14.2	89	-0.03	12.05
92	I	Perylene-d12	1.000	1.000	0.0	106	0.00	13.95
93	t	Di-n-octylphthalate	1.819	1.601	12.0	87	0.00	13.00

Continuing Calibration Summary

Job Number: JC20098 **Sample:** E2P2594-CC2547
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 2P59401A.D
Project: BMSMC, Building 5 Area, PR

94	t	Benzo[b]fluoranthene	1.390	1.350	2.9	107	0.00	13.44
95	t	Benzo[k]fluoranthene	1.214	1.137	6.3	100	0.00	13.48
96	t	Benzo[a]pyrene	1.179	1.117	5.3	102	0.00	13.87
97	t	Indeno[1,2,3-cd]pyrene	1.020	1.082	-6.1	114	0.09	15.42
98	t	Dibenz(a,h)acridine	0.930	0.928	0.2	110	-0.04	15.08
99	t	Dibenz[a,h]anthracene	1.021	1.079	-5.7	112	0.06	15.46
100	t	7,12-Dimethylbenz(a)anthr	0.566	0.526	7.1	97	-0.01	13.43
101	t	Benzo[g,h,i]perylene	1.078	1.071	0.6	108	-0.04	15.85

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2p58526a.D M2P2557.M Mon May 23 14:07:00 2016 RPT1

Continuing Calibration Summary

Job Number: JC20098 **Sample:** E2P2594-CC2557
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 2P59402.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\2P2594\2p59402.D          Vial: 3
Acq On    : 20 May 2016   8:00 pm                   Operator: seanb1
Sample    : cc2557-25                               Inst    : MS2P
Misc      : op94078,e2p2594                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M2P2557.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Mon Apr 25 15:59:04 2016
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	127	0.00	4.76
103		Benzaldehyde	1.043	1.047	-0.4	130	0.00	4.40
104	I	Naphthalene-d8a	1.000	1.000	0.0	126	0.00	5.82
105		Hydroquinone	0.363	0.351	3.3	118	0.05	6.21
106	I	Acenaphthene-d10a	1.000	1.000	0.0	134	0.00	7.27
107		Atrazine	0.154	0.200	-29.9#	168	0.00	8.32
108		1,2,4,5-Tetrachlorobenzen	0.497	0.609	-22.5#	164	-0.01	6.54
109	I	Chrysene-d12a	1.000	1.000	0.0	152	0.00	11.93
110		Benzidine	0.220	0.520	-136.4#	623#	-0.01	10.16

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2p58526a.D M2P2557.M Mon May 23 14:07:02 2016 RPT1

Initial Calibration Summary

Job Number: JC20098 **Sample:** E3M2855-ICC2855
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3M60763A.D
Project: BMSMC, Building 5 Area, PR


```
                        Response Factor Report  MS3M

Method       : C:\MSDCHEM\1\METHODS\M3M2855SIM.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Fri Apr 22 08:34:22 2016
Response via : Initial Calibration

Calibration Files
2.5 =3m60771.D   1.0 =3m60763a.D  0.5 =3m60764a.D  0.2 =3m60765a.D
0.1 =3m60766.D   0.05=3m60767.D   0.02=3m60768.D   0.01=3m60769.D
5   =3m60770.D       =                =                =

Compound
            2.5   1.0   0.5   0.2   0.1   0.05  0.02  0.01  5            Avg    %RSD
-----------------------------------------------------------------------------

1) I   1-Methylnaphthalene-d ----------------ISTD---------------------
2)  1,4-dioxane
          0.203 0.208 0.213 0.203 0.229 0.249 0.142 0.206 0.207        0.207   13.87
3)  2-Fluorophenol
          0.491 0.509 0.520 0.520 0.508 0.504 0.493       0.460        0.500    3.90
4)  Phenol-d5
          0.804 0.853 0.878 0.881 0.846 0.829 0.817 0.745 0.800        0.828    5.16
5)  Phenol
          0.851 0.928 0.933 0.920 0.894 0.883 0.866       0.866        0.893    3.51
6)  bis(2-Chloroethyl)ether
          0.591 0.707 0.712 0.713 0.696 0.711 0.696 0.663 0.582        0.675    7.74
7)  Nitrobenzene-d5
          0.638 0.806 0.832 0.805 0.758 0.744             0.807        0.770    8.55
8)  Nitrobenzene
          0.854 0.860 0.836 0.825 0.799 0.811 0.814 0.833 0.887        0.836    3.30
9)  Naphthalene
          2.224 2.193 2.197 2.251 2.235 2.191 2.239 2.236 2.237        2.223    1.02
10)  Hexachlorobutadiene
          0.362 0.402 0.405 0.406 0.389 0.398 0.383 0.361 0.382        0.387    4.43
11)  2-Methylnaphthalene
          1.162 1.204 1.136 1.160 1.133 1.125 1.156 1.137 1.209        1.158    2.63
12)  1-Methylnaphthalene
          1.412 1.400 1.398 1.453 1.441 1.564 1.930 2.020 1.413        1.559   15.54
13)  Hexachlorocyclopentadiene
          0.328 0.354 0.325 0.283 0.244 0.242             0.377        0.308   17.08

14) I   Fluorene-d10          ----------------ISTD---------------------
15)  2-Fluorobiphenyl
          0.947 1.110 1.110 1.165 1.171 1.115 1.098 1.077              1.099    6.31
16)  Acenaphthylene
          1.412 1.536 1.478 1.441 1.385 1.283 1.281 1.283 1.368        1.385    6.61
17)  Acenaphthene
          0.909 0.985 0.947 0.967 0.951 0.914 0.906 0.875 0.867        0.925    4.39
18)  4,6-dinitro-2-methylphenol
          0.154 0.130 0.084 0.056 0.038                   0.176        0.106   52.07
           ---- Quadratic regression ----  Coefficient =  0.9996
             Response Ratio = -0.02319 + 0.14133 *A + 0.00610 *A^2

19)  Fluorene
          1.036 1.189 1.143 1.159 1.121 1.092 1.109 1.147 0.991        1.110    5.63
20)  2,4,6-Tribromophenol
          0.120 0.132 0.134 0.130 0.115                   0.120        0.125    6.09

21) I   Fluoranthene-d10      ----------------ISTD---------------------
```

Initial Calibration Summary

Job Number: JC20098 **Sample:** E3M2855-ICC2855
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3M60763A.D
Project: BMSMC, Building 5 Area, PR

```
22)  Hexachlorobenzene
           0.191 0.190 0.190 0.190 0.186 0.186 0.187 0.186 0.196        0.189    1.67
23)  Pentachlorophenol
           0.133 0.135 0.123 0.099 0.084 0.077             0.134        0.112   22.28
            ---- Quadratic regression ----  Coefficient =  0.9999
              Response Ratio = -0.00592 + 0.13565 *A + -0.00012 *A^2

24)  Phenanthrene
           0.997 0.998 0.996 0.962 0.938 0.921 0.981 1.013 1.014        0.980    3.36
25)  Anthracene
           0.976 0.941 0.912 0.863 0.787 0.773 0.758 0.766 1.007        0.865   11.30
26)  Fluoranthene
           1.111 1.150 1.092 1.112 1.098 1.149 1.440 1.808 1.123        1.231   19.61
27)  Pyrene
           1.134 1.180 1.158 1.109 1.065 1.078 1.108 1.287 1.178        1.144    5.89
28)  Terphenyl-d14
           0.578 0.563 0.590 0.618 0.600 0.611             0.501        0.580    6.83
29)  Benzo[a]anthracene
           1.009 1.068 1.029 0.987 0.960 1.043 1.216 1.538 1.019        1.097   16.49
30)  Chrysene
           1.077 1.074 1.014 1.032 1.014 1.069             1.077        1.051    2.84

31) I   Benzo(a)pyrene-d12    ----------------ISTD---------------------
32)  Benzo[b]fluoranthene
           1.285 1.344 1.281 1.288 1.257 1.317 1.607       1.269        1.331    8.62
33)  Benzo[k]fluoranthene
           1.212 1.238 1.139 1.169 1.261 1.246 1.449 1.113 1.259        1.232    7.92
34)  Benzo[a]pyrene
           1.170 1.217 1.162 1.160 1.081 1.465 1.220 1.504 1.177        1.240   11.69
35)  Indeno[1,2,3-cd]pyrene
           1.291 1.342 1.265 1.286 1.256 1.194 1.201 1.184 1.320        1.260    4.48
36)  Dibenz[a,h]anthracene
           1.076 1.073 0.976 1.048 1.030 0.956 0.902 1.177 1.111        1.039    8.10
37)  Benzo[g,h,i]perylene
           1.122 1.143 1.083 1.090 1.091 1.073 1.041 1.074 1.135        1.095    3.02
-----------------------------------------------------------------------------
(#) = Out of Range  ###  Number of calibration levels exceeded format  ###

          M3M2855SIM.M        Fri Apr 22 09:08:14 2016   RPT1
```

6.7.14

6

Initial Calibration Verification

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E3M2855-ICV2855
Lab FileID: 3M60772.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E3M2855\3m60772.D          Vial: 11
Acq On    : 21 Apr 2016   7:27 pm                    Operator: linseyk
Sample    : icv2855-1.0                              Inst    : MS3M
Misc      : op93052a,e3m2855                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M3M2855SIM.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Fri Apr 22 08:34:22 2016
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-Methylnaphthalene-d10	1.000	1.000	0.0	117	0.00	10.64
5		Phenol	0.893	0.813	9.0	102	0.01	6.13
14	I	Fluorene-d10	1.000	1.000	0.0	119	0.00	13.64
		----------	True	Calc.	% Drift	----------		
18	t	4,6-dinitro-2-methylpheno	5.000	3.836	23.3	86	0.00	13.85
21	I	Fluoranthene-d10	1.000	1.000	0.0	111	0.00	17.84
		----------	True	Calc.	% Drift	----------		
23	t	Pentachlorophenol	5.000	4.338	13.2	93	0.00	15.20

```
(#) = Out of Range              SPCC's out = 0  CCC's out = 0
 3m60763a.D M3M2855SIM.M       Fri Apr 22 09:06:50 2016   RPT1
```

Initial Calibration Verification

Job Number: JC20098 **Sample:** E3M2855-ICV2855
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3M60773.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E3M2855\3m60773.D          Vial: 12
Acq On    : 21 Apr 2016   8:00 pm                    Operator: linseyk
Sample    : icv2855-1.0                              Inst    : MS3M
Misc      : op93052a,e3m2855                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M3M2855SIM.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Fri Apr 22 08:34:22 2016
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-Methylnaphthalene-d10	1.000	1.000	0.0	95	0.00	10.64
2	t	1,4-dioxane	0.207	0.220	-6.3	101	0.02	2.32
6	t	bis(2-Chloroethyl)ether	0.675	0.672	0.4	91	0.00	6.29
8	t	Nitrobenzene	0.836	0.685	18.1	76	0.00	7.76
9	t	Naphthalene	2.223	2.523	-13.5	110	0.00	9.14
10	t	Hexachlorobutadiene	0.387	0.431	-11.4	102	0.00	9.42
11	t	2-Methylnaphthalene	1.158	1.207	-4.2	95	0.00	10.52
14	I	Fluorene-d10	1.000	1.000	0.0	91	0.00	13.64
16	t	Acenaphthylene	1.385	1.474	-6.4	87	0.00	12.29
17	t	Acenaphthene	0.925	1.076	-16.3	99	0.00	12.65
		----------	AvgRF	CCRF	% Dev	----------		
19	t	Fluorene	1.110	1.199	-8.0	92	0.00	13.68
21	I	Fluoranthene-d10	1.000	1.000	0.0	83	0.00	17.84
22	t	Hexachlorobenzene	0.189	0.213	-12.7	93	0.00	14.78
		----------	AvgRF	CCRF	% Dev	----------		
24	t	Phenanthrene	0.980	1.137	-16.0	94	0.00	15.60
25	t	Anthracene	0.865	0.996	-15.1	88	0.00	15.71
26	t	Fluoranthene	1.231	1.254	-1.9	90	0.00	17.87
27	t	Pyrene	1.144	1.234	-7.9	87	0.00	18.26
29	t	Benzo[a]anthracene	1.097	1.218	-11.0	94	0.01	20.36
30	t	Chrysene	1.051	1.074	-2.2	83	0.00	20.41
31	I	Benzo(a)pyrene-d12	1.000	1.000	0.0	77	0.00	22.45
32	t	Benzo[b]fluoranthene	1.331	1.246	6.4	71	0.00	22.02
33	t	Benzo[k]fluoranthene	1.232	1.383	-12.3	85	0.00	22.06
34	t	Benzo[a]pyrene	1.240	1.197	3.5	75	0.00	22.46
35	t	Indeno[1,2,3-cd]pyrene	1.260	1.312	-4.1	75	0.00	23.96
36	t	Dibenz[a,h]anthracene	1.039	1.040	-0.1	74	0.00	24.02
37	t	Benzo[g,h,i]perylene	1.095	1.148	-4.8	77	0.00	24.36

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3m60763a.D M3M2855SIM.M Fri Apr 22 09:06:52 2016 RPT1

Initial Calibration Verification

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E3M2855-ICV2855
Lab FileID: 3M60774.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E3M2855\3m60774.D          Vial: 13
Acq On    : 21 Apr 2016   8:35 pm                    Operator: linseyk
Sample    : icv2855-1.0                              Inst    : MS3M
Misc      : op93052a,e3m2855                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M3M2855SIM.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Fri Apr 22 08:34:22 2016
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-Methylnaphthalene-d10	1.000	1.000	0.0	108	0.00	10.64
12 t	1-Methylnaphthalene	1.559	1.488	4.6	115	0.00	10.70
13	Hexachlorocyclopentadiene	0.308	0.322	-4.6	98	0.00	10.85

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3m60763a.D M3M2855SIM.M Fri Apr 22 09:07:18 2016 RPT1

Continuing Calibration Summary

Job Number: JC20098 **Sample:** E3M2882-CC2855
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3M61295.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E3M2882\3m61295.D          Vial: 2
Acq On    : 13 May 2016  10:30 am                    Operator: ashleyd
Sample    : cc2855-1.0                               Inst    : MS3M
Misc      : op93756a,e3m2882                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M3M2855SIM.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Thu May 12 12:34:26 2016
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-Methylnaphthalene-d10	1.000	1.000	0.0	112	0.06	10.43
2	t	1,4-dioxane	0.207	0.186	10.1	101	0.04	2.14
3	S	2-Fluorophenol	0.500	0.463	7.4	102	0.05	4.37
4	S	Phenol-d5	0.828	0.725	12.4	96	0.06	5.99
5		Phenol	0.893	0.758	15.1	92	0.07	6.01
6	t	bis(2-Chloroethyl)ether	0.675	0.533	21.0#	85	0.06	6.11
7	S	Nitrobenzene-d5	0.770	0.583	24.3#	81	0.04	7.53
8	t	Nitrobenzene	0.836	0.677	19.0	89	0.06	7.57
9	t	Naphthalene	2.223	1.794	19.3	92	0.06	8.92
10	t	Hexachlorobutadiene	0.387	0.327	15.5	92	0.06	9.23
11	t	2-Methylnaphthalene	1.158	1.190	-2.8	111	0.06	10.30
12	t	1-Methylnaphthalene	1.559	1.183	24.1#	95	0.04	10.49
13		Hexachlorocyclopentadiene	0.308	0.187	39.3#	60	0.04	10.63
14	I	Fluorene-d10	1.000	1.000	0.0	104	0.06	13.43
15	S	2-Fluorobiphenyl	1.099	0.999	9.1	94	0.06	11.10
16	t	Acenaphthylene	1.385	1.310	5.4	89	0.08	12.09
17	t	Acenaphthene	0.925	0.872	5.7	92	0.08	12.44
		----------	True	Calc.	% Drift	----------		
18	t	4,6-dinitro-2-methylpheno	5.000	4.181	16.4	84	0.08	13.67
		----------	AvgRF	CCRF	% Dev	----------		
19	t	Fluorene	1.110	1.051	5.3	92	0.08	13.49
20	S	2,4,6-Tribromophenol	0.125	0.114	8.8	90	0.06	13.98
21	I	Fluoranthene-d10	1.000	1.000	0.0	103	0.06	17.65
22	t	Hexachlorobenzene	0.189	0.172	9.0	94	0.05	14.56
		----------	True	Calc.	% Drift	----------		
23	t	Pentachlorophenol	5.000	3.300	34.0#	65	0.05	15.01
		----------	AvgRF	CCRF	% Dev	----------		
24	t	Phenanthrene	0.980	0.896	8.6	93	0.07	15.40
25	t	Anthracene	0.865	0.828	4.3	91	0.05	15.49
26	t	Fluoranthene	1.231	1.035	15.9	93	0.05	17.67
27	t	Pyrene	1.144	1.067	6.7	93	0.06	18.07
28	S	Terphenyl-d14	0.580	0.569	1.9	104	0.05	18.46
29	t	Benzo[a]anthracene	1.097	0.983	10.4	95	0.06	20.16
30	t	Chrysene	1.051	1.041	1.0	100	0.06	20.22
31	I	Benzo(a)pyrene-d12	1.000	1.000	0.0	115	0.06	22.26

Continuing Calibration Summary

Job Number: JC20098 **Sample:** E3M2882-CC2855
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3M61295.D
Project: BMSMC, Building 5 Area, PR

32	t	Benzo[b]fluoranthene	1.331	1.337	-0.5	114	0.05	21.83
33	t	Benzo[k]fluoranthene	1.232	0.967	21.5#	90	0.06	21.87
34	t	Benzo[a]pyrene	1.240	1.068	13.9	101	0.06	22.29
35	t	Indeno[1,2,3-cd]pyrene	1.260	1.274	-1.1	109	0.06	23.75
36	t	Dibenz[a,h]anthracene	1.039	1.064	-2.4	114	0.08	23.81
37	t	Benzo[g,h,i]perylene	1.095	1.128	-3.0	113	0.08	24.13

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3m61244.D M3M2855SIM.M Fri May 13 14:29:44 2016 RPT1

Initial Calibration Summary

Job Number: JC20098 **Sample:** E3P2413-ICC2413
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3P53002.D
Project: BMSMC, Building 5 Area, PR

Response Factor Report MSGC3P

Method : C:\MSDCHEM\1\METHODS\M3P2413.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 29 13:16:23 2016
Response via : Initial Calibration

Calibration Files
2 =3p53006.D 5 =3p53008.D 25 =3p53003.D 80 =3p53007.D
100 =3p53005.D 50 =3p53002.D 1 =3p53004.D 10 =3p53009.D

Compound	2	5	25	80	100	50	1	10	Avg	%RSD
1) I 1,4-Dichlorobenzene-d					ISTD					
2) 1,4-Dioxane	0.650	0.645	0.589	0.609	0.618	0.608	0.701	0.523	0.618	8.38
3) Pyridine	1.475	1.481	1.430	1.514	1.602	1.513	1.343	1.315	1.459	6.47
4) N-Nitrosodim	0.605	0.733	0.673	0.722	0.767	0.750	0.947	0.611	0.726	14.89
5) 2-Fluorophen	1.346	1.392	1.324	1.396	1.436	1.366	1.359	1.241	1.357	4.29
6) Indene	2.428	2.386	2.092	1.997	2.003	2.108	2.502	2.073	2.199	9.32
7) Cumene	3.373	3.326	3.238	3.304	3.347	3.296	3.465	2.991	3.293	4.21
8) Phenol-d5	1.792	1.740	1.618	1.706	1.747	1.726	1.819	1.525	1.709	5.59
9) Phenol	1.815	1.777	1.658	1.734	1.743	1.737	1.911	1.538	1.739	6.29
10) Aniline	2.229	2.137	1.891	1.909	1.929	1.921	2.238	1.821	2.009	8.20
11) bis(2-Chloro	1.374	1.354	1.225	1.224	1.252	1.269	1.430	1.151	1.285	7.23
12) 2-Chlorophen	1.468	1.471	1.360	1.374	1.375	1.387	1.466	1.288	1.399	4.66
13) Decane	1.557	1.518	1.428	1.387	1.407	1.444	1.638	1.346	1.466	6.66
14) 1,3-Dichloro	1.662	1.740	1.496	1.513	1.507	1.526	1.755	1.470	1.584	7.35
15) 1,4-Dichloro	1.750	1.718	1.538	1.489	1.504	1.565	1.824	1.489	1.610	8.31
16) Benzyl alcoh	0.896	0.894	0.822	0.794	0.794	0.827	0.916	0.789	0.842	6.21
17) 1,2-Dichloro	1.648	1.573	1.414	1.368	1.382	1.426	1.594	1.421	1.478	7.35
18) Acetophenone	1.959	1.889	1.635	1.547	1.518	1.668	1.968	1.638	1.728	10.58
19) 2-Methylphen	1.263	1.248	1.110	1.056	1.062	1.110	1.291	1.080	1.153	8.49
20) 2,2'-oxybis(	2.060	1.990	1.741	1.596	1.608	1.758	2.262	1.696	1.839	13.00
21) 3&4-Methylph	1.341	1.316	1.163	1.128	1.124	1.191	1.397	1.164	1.228	8.69
22) n-Nitroso-di	1.186	1.099	0.936	0.879	0.864	0.947		0.902	0.973	12.53
23) Hexachloroet	0.614	0.608	0.524	0.513	0.502	0.517	0.610	0.510	0.550	9.24
24) I Naphthalene-d8					ISTD					
25) Nitrobenzene	0.431	0.434	0.396	0.396	0.396	0.404	0.426	0.382	0.408	4.77
26) Nitrobenzene	0.447	0.448	0.398	0.396	0.395	0.404	0.461	0.383	0.417	7.24
27) Quinoline	0.731	0.718	0.639	0.639	0.640	0.649	0.746	0.639	0.675	7.04
28) Isophorone	0.720	0.730	0.666	0.676	0.666	0.685	0.760	0.644	0.693	5.68
29) 2-Nitropheno	0.203	0.216	0.200	0.208	0.210	0.204	0.216	0.196	0.207	3.50
30) 2,4-Dimethyl	0.348	0.368	0.336	0.343	0.344	0.339	0.395	0.330	0.350	6.04
31) Benzoic acid	0.290	0.296	0.273	0.293	0.291	0.296	0.304	0.261	0.288	4.87
32) bis(2-Chloro	0.439	0.451	0.402	0.396	0.396	0.406	0.469	0.392	0.419	7.07
33) 2,4-Dichloro	0.325	0.333	0.299	0.305	0.308	0.302	0.344	0.294	0.314	5.79
34) 2,6-Dichloro	0.327	0.321	0.295	0.294	0.291	0.289	0.341	0.284	0.305	7.01
35) 1,3,5-Trichl	0.386	0.407	0.362	0.366	0.358	0.354	0.386	0.350	0.371	5.33
36) 1,2,4-Trichl	0.372	0.384	0.340	0.338	0.337	0.334	0.406	0.334	0.356	7.85
37) 1,2,3-Trichl	0.370	0.361	0.329	0.317	0.315	0.314	0.366	0.328	0.338	7.11
38) Naphthalene	1.134	1.121	1.000	0.991	1.001	1.008	1.198	0.990	1.055	7.81
39) 4-Chloroanil	0.493	0.471	0.416	0.419	0.412	0.406	0.501	0.412	0.441	9.09
40) 2,3-Dichloro	0.407	0.404	0.354	0.355	0.353	0.351	0.413	0.362	0.375	7.36
41) Caprolactam	0.115	0.112	0.101	0.104	0.103	0.103	0.116	0.102	0.107	5.87
42) Hexachlorobu	0.211	0.218	0.191	0.192	0.194	0.191	0.227	0.189	0.202	7.34
43) 4-Chloro-3-m	0.307	0.306	0.281	0.286	0.281	0.284	0.332	0.273	0.294	6.68
44) 2-Methylnaph	0.663	0.644	0.560	0.573	0.567	0.563	0.642	0.558	0.596	7.48
45) 1-Methylnaph	0.656	0.658	0.575	0.579	0.574	0.574	0.703	0.587	0.613	8.33

```
46) Dimethylnaph 0.639 0.648 0.557 0.568 0.561 0.559 0.675 0.568 0.597   8.13

47) I   Acenaphthene-d10      ----------------ISTD---------------------
48) Hexachlorocy 0.376 0.439 0.399 0.437 0.436 0.408 0.370 0.382 0.406   7.06
49) 2,4,6-Trichl 0.438 0.455 0.393 0.405 0.407 0.395 0.444 0.378 0.414   6.72
50) 2,4,5-Trichl 0.433 0.481 0.420 0.425 0.417 0.419 0.445 0.407 0.431   5.42
51) 2-Fluorobiph 1.413 1.465 1.268 1.282 1.276 1.293 1.471 1.257 1.340   6.90
52) 2-Chloronaph 1.295 1.291 1.143 1.113 1.112 1.117 1.283 1.105 1.182   7.58
53) Biphenyl     1.628 1.651 1.437 1.443 1.431 1.464 1.608 1.388 1.506   6.93
54) 2-Nitroanili 0.383 0.385 0.362 0.349 0.351 0.371 0.394 0.342 0.367   5.19
55) Dimethylphth 1.371 1.407 1.241 1.206 1.206 1.242 1.437 1.194 1.288   7.75
56) Acenaphthyle 2.034 2.060 1.809 1.823 1.841 1.838 2.115 1.797 1.915   6.85
57) 2,6-Dinitrot 0.307 0.310 0.293 0.291 0.295 0.291 0.308 0.279 0.297   3.60
58) 3-Nitroanili 0.342 0.362 0.330 0.326 0.327 0.328 0.351 0.317 0.335   4.44
59) Acenaphthene 1.291 1.310 1.175 1.167 1.166 1.179 1.291 1.133 1.214   5.82
60) 2,4-Dinitrop 0.088 0.135 0.163 0.190 0.194 0.183 0.067 0.130 0.144  33.12
            ---- Quadratic regression ----  Coefficient =  0.9997
              Response Ratio = -0.01206 + 0.17359 *A + 0.00464 *A^2

61) 4-Nitropheno 0.168 0.184 0.183 0.180 0.181 0.185 0.151 0.162 0.174   7.23
62) Dibenzofuran 1.725 1.790 1.565 1.563 1.533 1.589 1.719 1.528 1.626   6.26
63) 2,4-Dinitrot 0.386 0.412 0.393 0.385 0.390 0.400 0.389 0.366 0.390   3.32
64) 2,3,4,6-Tetr 0.370 0.365 0.343 0.356 0.361 0.354 0.376 0.327 0.356   4.38
65) Diethylphtha 1.412 1.398 1.260 1.253 1.284 1.282 1.396 1.211 1.312   5.93
66) Fluorene     1.385 1.426 1.282 1.304 1.327 1.291 1.442 1.233 1.336   5.54
67) 4-Chlorophen 0.670 0.676 0.603 0.613 0.625 0.616 0.674 0.583 0.633   5.70
68) 4-Nitroanili 0.328 0.356 0.330 0.339 0.340 0.326 0.349 0.323 0.336   3.54

69) I   Phenanthrene-d10      ----------------ISTD---------------------
70) 4,6-Dinitro- 0.095 0.133 0.143 0.148 0.146 0.147       0.122 0.133  14.59
71) n-Nitrosodip 0.558 0.580 0.507 0.498 0.493 0.517 0.582 0.493 0.529   7.32
72) 1,2-Diphenyl 0.872 0.864 0.781 0.752 0.733 0.791 0.899 0.756 0.806   7.86
73) 2,4,6-Tribro 0.120 0.129 0.119 0.118 0.115 0.116 0.119 0.117 0.119   3.56
74) 4-Bromopheny 0.241 0.251 0.215 0.220 0.217 0.219 0.252 0.210 0.228   7.47
75) Hexachlorobe 0.279 0.267 0.236 0.241 0.235 0.231 0.275 0.239 0.250   7.79
76) Pentachlorop 0.171 0.185 0.171 0.180 0.181 0.177 0.179 0.163 0.176   4.06
77) Phenanthrene 1.222 1.225 1.087 1.088 1.074 1.093 1.256 1.076 1.140   6.89
78) Anthracene   1.229 1.256 1.093 1.109 1.089 1.111 1.264 1.090 1.155   6.88
79) Carbazole    1.099 1.126 0.996 1.000 0.988 1.000 1.105 0.978 1.037   5.95
80) Di-n-butylph 1.412 1.430 1.330 1.378 1.378 1.395 1.459 1.282 1.383   4.06
81) Fluoranthene 1.326 1.365 1.246 1.328 1.317 1.307 1.329 1.211 1.304   3.85
82) Octadecane   0.513 0.532 0.491 0.478 0.477 0.500 0.532 0.462 0.498   5.24

83) I   Chrysene-d12          ----------------ISTD---------------------
84) Pyrene       1.370 1.358 1.226 1.207 1.187 1.227 1.401 1.206 1.273   6.87
85) Terphenyl-d1 0.848 0.857 0.761 0.770 0.750 0.764 0.869 0.748 0.796   6.56
86) Butylbenzylp 0.581 0.621 0.576 0.574 0.573 0.596 0.621 0.541 0.585   4.56
87) Benzo[a]anth 1.305 1.281 1.137 1.137 1.121 1.139 1.378 1.109 1.201   8.64
88) 3,3'-Dichlor 0.451 0.484 0.395 0.417 0.401 0.396 0.455 0.408 0.426   7.81
89) Chrysene     1.190 1.227 1.076 1.052 1.030 1.073 1.212 1.055 1.114   7.26
90) bis(2-Ethylh 0.821 0.868 0.784 0.768 0.753 0.796 0.845 0.734 0.796   5.81

91) I   Perylene-d12          ----------------ISTD---------------------
92) Di-n-octylph 1.527 1.643 1.601 1.628 1.602 1.620 1.577 1.458 1.582   3.89
93) Benzo[b]fluo 1.325 1.378 1.267 1.301 1.296 1.294 1.431 1.245 1.317   4.60
94) Benzo[k]fluo 1.306 1.335 1.185 1.183 1.144 1.167 1.294 1.167 1.222   6.18
95) Benzo[a]pyre 1.202 1.217 1.104 1.130 1.111 1.110 1.212 1.083 1.146   4.77
96) Indeno[1,2,3 1.069 1.145 1.062 1.095 1.086 1.080 1.110 1.004 1.081   3.75
97) Dibenz(a,h)a 1.041 1.040 0.932 0.988 0.973 0.961 1.029 0.897 0.983   5.36
98) Dibenz[a,h]a 1.103 1.145 1.048 1.062 1.063 1.060 1.155 0.990 1.078   5.01
```

Initial Calibration Summary

Job Number: JC20098 **Sample:** E3P2413-ICC2413
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3P53002.D
Project: BMSMC, Building 5 Area, PR

```
 99) 7,12-Dimethy 0.487 0.542 0.540 0.555 0.550 0.549 0.530 0.499 0.531   4.72
100) Benzo[g,h,i] 1.135 1.177 1.103 1.121 1.103 1.084 1.179 1.011 1.114   4.86
 ---------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

          M3P2413.M         Fri Apr 29 13:24:53 2016
```

Initial Calibration Summary

Job Number: JC20098 **Sample:** E3P2414-ICC2414
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3P53011.D
Project: BMSMC, Building 5 Area, PR

```
                    Response Factor Report  MSGC3P

  Method       : C:\MSDCHEM\1\METHODS\M3P2413.M (RTE Integrator)
  Title        : Semi Volatile Extractables by GC/MS
  Last Update  : Mon May 02 10:04:19 2016
  Response via : Initial Calibration

  Calibration Files
  2   =3p53014.D  5   =3p53015.D  25  =3p53012.D  80  =3p53017.D
  100 =3p53018.D  50  =3p53011.D  1   =3p53013.D  10  =3p53016.D

   Compound          2     5     25    80    100   50    1     10    Avg %RSD
   -------------------------------------------------------------------------------
101) I   1,4-Dichlorobenzene-d ----------------ISTD---------------------
102) Benzaldehyde 0.971 0.958 0.973 0.923 0.939 0.981 0.888 0.996 0.954   3.71

103) I   Acenaphthene-d10     ----------------ISTD---------------------
104) Atrazine     0.148 0.151 0.166 0.170 0.168 0.175 0.162 0.176 0.164   6.24
105) 1,2,4,5-Tetr 0.537 0.549 0.563 0.572 0.568 0.581 0.557 0.597 0.565   3.30

106) I   Chrysene-d12a         ----------------ISTD---------------------
107) Benzidine    0.432 0.443 0.571 0.490 0.418 0.592 0.443 0.540 0.491  13.86

108) I   Naphthalene-d8a       ----------------ISTD---------------------
109) Hydroquinone 0.198 0.222 0.288 0.287 0.289 0.318       0.278 0.269  15.93

110) I   Phenanthrene-d10a     ----------------ISTD---------------------
111) O-Terphenyl  0.524 0.504 0.503 0.522 0.517 0.536 0.509 0.553 0.521   3.28
112) 1-Chloroocta 0.281 0.274 0.288 0.287 0.282 0.300 0.283 0.302 0.287   3.36
 -------------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

           M3P2413.M         Tue May 03 13:06:56 2016
```

Initial Calibration Verification

Job Number: JC20098 **Sample:** E3P2414-ICV2413
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3P53021.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\data\E3P2414\3p53021.D          Vial: 12
Acq On    : 29 Apr 2016   6:12 pm                    Operator: robertl1
Sample    : ICV2413-50                               Inst    : MSGC3P
Misc      : op93185,e3p2414                          Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M3P2413.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Mon May 02 10:04:19 2016
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	114	0.00	4.85
3	t	Pyridine	1.459	1.381	5.3	104	0.07	2.82
10		Aniline	2.009	2.117	-5.4	126	0.00	4.61
16	t	Benzyl alcohol	0.842	0.853	-1.3	118	0.00	4.95
24	I	Naphthalene-d8	1.000	1.000	0.0	127	0.00	5.77
39	t	4-Chloroaniline	0.441	0.428	2.9	134	0.00	5.82
44	t	2-Methylnaphthalene	0.596	0.578	3.0	130	0.00	6.30
47	I	Acenaphthene-d10	1.000	1.000	0.0	131	0.00	7.24
54	t	2-Nitroaniline	0.367	0.335	8.7	119	0.00	6.79
58	t	3-Nitroaniline	0.335	0.325	3.0	130	0.00	7.19
		----------	AvgRF	CCRF	% Dev	----------		
62	t	Dibenzofuran	1.626	1.606	1.2	133	0.00	7.46
68	t	4-Nitroaniline	0.336	0.313	6.8	127	-0.01	7.87
69	I	Phenanthrene-d10	1.000	1.000	0.0	134	0.00	9.19
79	t	Carbazole	1.037	1.001	3.5	134	0.00	9.59
83	I	Chrysene-d12	1.000	1.000	0.0	123	-0.01	14.54
91	I	Perylene-d12	1.000	1.000	0.0	121	0.00	17.60
101	I	1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	98	0.00	4.85
103	I	Acenaphthene-d10a	1.000	1.000	0.0	99	0.00	7.24
106	I	Chrysene-d12a	1.000	1.000	0.0	104	0.00	14.54
108	I	Naphthalene-d8a	1.000	1.000	0.0	100	0.00	5.77
110	I	Phenanthrene-d10a	1.000	1.000	0.0	103	0.00	9.19
113	I	Chrysene-d12b	1.000	1.000	0.0	104	0.00	14.54

```
(#) = Out of Range              SPCC's out = 0  CCC's out = 0
 3p53011a.D M3P2413.M        Tue May 03 11:18:38 2016
```

Initial Calibration Verification

Job Number: JC20098 **Sample:** E3P2414-ICV2413
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3P53022.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\data\E3P2414\3p53022.D          Vial: 13
Acq On    : 29 Apr 2016   6:38 pm                    Operator: robertl1
Sample    : ICV2413-50                               Inst    : MSGC3P
Misc      : op93185,e3p2414                          Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M3P2413.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Mon May 02 10:04:19 2016
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	124	0.00	4.85
9	t	Phenol	1.739	1.525	12.3	109	0.00	4.57
12	t	2-Chlorophenol	1.399	1.318	5.8	118	0.00	4.68
19	t	2-Methylphenol	1.153	1.085	5.9	121	0.00	5.02
21	t	3&4-Methylphenol	1.228	1.135	7.6	118	0.00	5.12
24	I	Naphthalene-d8	1.000	1.000	0.0	125	0.00	5.77
29	t	2-Nitrophenol	0.207	0.200	3.4	122	0.00	5.49
30	t	2,4-Dimethylphenol	0.350	0.356	-1.7	131	0.00	5.51
31	t	Benzoic acid	0.288	0.245	14.9	104	0.00	5.58
33	t	2,4-Dichlorophenol	0.314	0.307	2.2	127	0.00	5.66
34	t	2,6-Dichlorophenol	0.305	0.295	3.3	127	0.00	5.82
43	t	4-Chloro-3-methylphenol	0.294	0.268	8.8	118	-0.01	6.16
47	I	Acenaphthene-d10	1.000	1.000	0.0	132	0.00	7.24
49	t	2,4,6-Trichlorophenol	0.414	0.392	5.3	131	0.00	6.52
50	t	2,4,5-Trichlorophenol	0.431	0.382	11.4	120	0.00	6.55
		----------	True	Calc.	% Drift	----------		
60	t	2,4-Dinitrophenol	100.000	42.715	14.6	102	0.00	7.29
		----------	AvgRF	CCRF	% Dev	----------		
61	t	4-Nitrophenol	0.174	0.165	5.2	118	0.00	7.34
64		2,3,4,6-Tetrachlorophenol	0.356	0.332	6.7	124	0.00	7.59
69	I	Phenanthrene-d10	1.000	1.000	0.0	128	0.00	9.19
70	t	4,6-Dinitro-2-methylpheno	0.133	0.133	0.0	115	0.00	7.91
76	t	Pentachlorophenol	0.176	0.084	4.5	122	0.00	8.88
83	I	Chrysene-d12	1.000	1.000	0.0	121	-0.02	14.54
91	I	Perylene-d12	1.000	1.000	0.0	122	0.00	17.60
101	I	1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	107	0.00	4.85
103	I	Acenaphthene-d10a	1.000	1.000	0.0	99	0.00	7.24
106	I	Chrysene-d12a	1.000	1.000	0.0	103	0.00	14.54
108	I	Naphthalene-d8a	1.000	1.000	0.0	98	0.00	5.77
110	I	Phenanthrene-d10a	1.000	1.000	0.0	98	0.00	9.19
113	I	Chrysene-d12b	1.000	1.000	0.0	103	0.00	14.54

Initial Calibration Verification

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E3P2414-ICV2413
Lab FileID: 3P53022.D

```
(#) = Out of Range                SPCC's out = 0  CCC's out = 0
 3p53011a.D M3P2413.M        Tue May 03 11:18:41 2016
```

Initial Calibration Verification

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E3P2414-ICV2413
Lab FileID: 3P53023.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\E3P2414\3p53023.D Vial: 14
Acq On : 29 Apr 2016 7:03 pm Operator: robertl1
Sample : ICV2413-50 Inst : MSGC3P
Misc : op93185,e3p2414 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M3P2413.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon May 02 10:04:19 2016
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	140	0.00	4.85
5	S	2-Fluorophenol	1.357	1.360	-0.2	139	0.00	3.85
8	S	Phenol-d5	1.709	1.664	2.6	135	0.00	4.56
24	I	Naphthalene-d8	1.000	1.000	0.0	150	0.00	5.77
25	S	Nitrobenzene-d5	0.408	0.407	0.2	151	0.00	5.25
47	I	Acenaphthene-d10	1.000	1.000	0.0	150	0.00	7.24
51	S	2-Fluorobiphenyl	1.340	1.465	-9.3	170	0.00	6.60
69	I	Phenanthrene-d10	1.000	1.000	0.0	146	0.00	9.19
73	S	2,4,6-Tribromophenol	0.119	0.117	1.7	146	0.00	8.16
83	I	Chrysene-d12	1.000	1.000	0.0	134	-0.01	14.54
85	S	Terphenyl-d14	0.796	0.894	-12.3	156	0.00	12.31
91	I	Perylene-d12	1.000	1.000	0.0	130	0.00	17.60

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3p53011a.D M3P2413.M Tue May 03 11:18:43 2016

Initial Calibration Verification

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E3P2414-ICV2413
Lab FileID: 3P53024A.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\data\E3P2414\3p53024a.D        Vial: 15
Acq On    : 29 Apr 2016   7:29 pm                   Operator: robertl1
Sample    : ICV2413-50                              Inst    : MSGC3P
Misc      : op93185,e3p2414                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M3P2413.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Mon May 02 10:04:19 2016
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	129	-0.01	14.54
88 t	3,3'-Dichlorobenzidine	0.426	0.398	6.6	130	0.00	14.57

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3p53011a.D M3P2413.M Tue May 03 13:01:32 2016

Initial Calibration Verification

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E3P2414-ICV2414
Lab FileID: 3P53024.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\data\E3P2414\3p53024.D          Vial: 15
Acq On    : 29 Apr 2016   7:29 pm                    Operator: robertl1
Sample    : ICV2414-50                               Inst    : MSGC3P
Misc      : op93185,e3p2414                          Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M3P2413.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Mon May 02 10:04:19 2016
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.
106 I	Chrysene-d12a	1.000	1.000	0.0	110	0.00	14.54
107	Benzidine	0.491	0.712	-45.0#	132	0.00	11.77

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3p53011a.D M3P2413.M Tue May 03 13:01:29 2016

Initial Calibration Verification

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E3P2414-ICV2414
Lab FileID: 3P53025.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\data\E3P2414\3p53025.D          Vial: 16
Acq On    : 29 Apr 2016   7:55 pm                    Operator: robertl1
Sample    : ICV2414-50                               Inst    : MSGC3P
Misc      : op93185,e3p2414                          Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M3P2413.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Mon May 02 10:04:19 2016
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.
108 I	Naphthalene-d8a	1.000	1.000	0.0	118	0.00	5.77
109 t	Hydroquinone	0.269	0.318	-18.2	118	0.00	6.05

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3p53011a.D M3P2413.M Tue May 03 13:01:34 2016

Initial Calibration Verification

Job Number: JC20098 **Sample:** E3P2415-ICV2413
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3P53030.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\E3P2415\3p53030.D Vial: 2
Acq On : 2 May 2016 11:57 am Operator: robertl1
Sample : ICV2413-50 Inst : MSGC3P
Misc : op93185,e3p2415 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M3P2413.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon May 02 10:04:19 2016
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	123	-0.02	4.83
4	t	N-Nitrosodimethylamine	0.726	0.663	8.7	109	-0.01	2.69
11	t	bis(2-Chloroethyl)ether	1.285	1.267	1.4	123	-0.02	4.63
14	t	1,3-Dichlorobenzene	1.584	1.466	7.4	118	-0.02	4.79
15	t	1,4-Dichlorobenzene	1.610	1.504	6.6	118	-0.02	4.84
17	t	1,2-Dichlorobenzene	1.478	1.372	7.2	118	-0.02	4.95
20	t	2,2'-oxybis(1-Chloropropa	1.839	1.524	17.1	107	-0.02	5.02
22	t	n-Nitroso-di-n-propylamin	0.973	0.902	7.3	117	-0.02	5.12
23	t	Hexachloroethane	0.550	0.516	6.2	123	-0.02	5.20
24	I	Naphthalene-d8	1.000	1.000	0.0	123	-0.02	5.75
26	t	Nitrobenzene	0.417	0.391	6.2	119	-0.02	5.25
28	t	Isophorone	0.693	0.685	1.2	123	-0.02	5.42
32	t	bis(2-Chloroethoxy)methan	0.419	0.393	6.2	119	-0.02	5.57
36	t	1,2,4-Trichlorobenzene	0.356	0.328	7.9	121	-0.02	5.71
38	t	Naphthalene	1.055	0.998	5.4	121	-0.02	5.77
42	t	Hexachlorobutadiene	0.202	0.184	8.9	118	-0.02	5.85
47	I	Acenaphthene-d10	1.000	1.000	0.0	122	-0.03	7.21
48	t	Hexachlorocyclopentadiene	0.406	0.342	15.8	102	-0.02	6.41
52	t	2-Chloronaphthalene	1.182	1.126	4.7	123	-0.03	6.69
55	t	Dimethylphthalate	1.288	1.212	5.9	119	-0.02	6.94
56	t	Acenaphthylene	1.915	1.715	10.4	113	-0.03	7.08
57	t	2,6-Dinitrotoluene	0.297	0.278	6.4	116	-0.03	7.00
59	t	Acenaphthene	1.214	1.134	6.6	117	-0.03	7.25
		----------	AvgRF	CCRF	% Dev	----------		
63	t	2,4-Dinitrotoluene	0.390	0.352	9.7	107	-0.03	7.41
65	t	Diethylphthalate	1.312	1.179	10.1	112	-0.03	7.69
66	t	Fluorene	1.336	1.203	10.0	113	-0.03	7.84
67	t	4-Chlorophenyl-phenylethe	0.633	0.576	9.0	114	-0.03	7.84
69	I	Phenanthrene-d10	1.000	1.000	0.0	116	-0.04	9.16
71	t	n-Nitrosodiphenylamine	0.529	0.491	7.2	110	-0.03	7.98
72	t	1,2-Diphenylhydrazine	0.806	0.758	6.0	112	-0.03	8.03
74	t	4-Bromophenyl-phenylether	0.228	0.209	8.3	111	-0.03	8.49
75	t	Hexachlorobenzene	0.250	0.219	12.4	110	-0.03	8.56
77	t	Phenanthrene	1.140	1.017	10.8	108	-0.04	9.20
78	t	Anthracene	1.155	1.001	13.3	105	-0.04	9.28
80	t	Di-n-butylphthalate	1.383	1.243	10.1	104	-0.04	10.28
81	t	Fluoranthene	1.304	1.138	12.7	101	-0.04	11.39

Initial Calibration Verification

Job Number: JC20098 **Sample:** E3P2415-ICV2413
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3P53030.D
Project: BMSMC, Building 5 Area, PR

83	I	Chrysene-d12	1.000	1.000	0.0	105	-0.05	14.50
84	t	Pyrene	1.273	1.189	6.6	102	-0.04	11.84
86	t	Butylbenzylphthalate	0.585	0.551	5.8	97	-0.04	13.46
87	t	Benzo[a]anthracene	1.201	1.065	11.3	98	-0.05	14.48
89	t	Chrysene	1.114	0.971	12.8	95	-0.05	14.56
90	t	bis(2-Ethylhexyl)phthalat	0.796	0.740	7.0	98	-0.04	14.88
91	I	Perylene-d12	1.000	1.000	0.0	99	-0.05	17.56
92	t	Di-n-octylphthalate	1.582	1.538	2.8	94	-0.04	16.34
93	t	Benzo[b]fluoranthene	1.317	1.151	12.6	88	-0.05	16.80
94	t	Benzo[k]fluoranthene	1.222	1.151	5.8	98	-0.06	16.86
95	t	Benzo[a]pyrene	1.146	1.085	5.3	97	-0.05	17.44
96	t	Indeno[1,2,3-cd]pyrene	1.081	1.056	2.3	97	-0.06	19.51
98	t	Dibenz[a,h]anthracene	1.078	1.019	5.5	95	-0.05	19.57
100	t	Benzo[g,h,i]perylene	1.114	1.062	4.7	97	-0.06	19.93

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3p53011a.D M3P2413.M Tue May 03 11:18:51 2016

6.7.27

6

Initial Calibration Verification

Job Number: JC20098 **Sample:** E3P2415-ICV2414
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3P53030A.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\data\E3P2415\3p53030a.D        Vial: 2
Acq On    :  2 May 2016  11:57 am                   Operator: robertl1
Sample    : ICV2414-50                              Inst    : MSGC3P
Misc      : op93185,e3p2415                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M3P2413.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Mon May 02 10:04:19 2016
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.
103 I	Acenaphthene-d10a	1.000	1.000	0.0	92	-0.03	7.21
105	1,2,4,5-Tetrachlorobenzen	0.565	0.657	-16.3	104	-0.02	6.41

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3p53011a.D M3P2413.M Tue May 03 13:05:06 2016

Initial Calibration Verification

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E3P2415-ICV2414
Lab FileID: 3P53031A.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\data\E3P2415\3p53031a.D        Vial: 3
Acq On    :  2 May 2016  12:36 pm                   Operator: robertl1
Sample    : ICV2414-50                              Inst    : MSGC3P
Misc      : op93185,e3p2415                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M3P2413.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Mon May 02 10:04:19 2016
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.
101 I	1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	115	-0.02	4.83
102	Benzaldehyde	0.954	1.072	-12.4	126	-0.02	4.50
103 I	Acenaphthene-d10a	1.000	1.000	0.0	100	-0.02	7.22
104	Atrazine	0.164	0.185	-12.8	105	-0.03	8.75

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3p53011a.D M3P2413.M Tue May 03 13:05:08 2016

Initial Calibration Verification

Job Number: JC20098 **Sample:** E3P2415-ICV2413
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3P53031.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\data\E3P2415\3p53031.D          Vial: 3
Acq On    :  2 May 2016  12:36 pm                     Operator: robertl1
Sample    : ICV2413-50                                Inst    : MSGC3P
Misc      : op93185,e3p2415                           Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M3P2413.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Mon May 02 10:04:19 2016
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	134	-0.02	4.83
2	t	1,4-Dioxane	0.618	0.516	16.5	114	-0.02	2.41
6	t	Indene	2.199	2.256	-2.6	143	-0.02	5.02
7	t	Cumene	3.293	3.053	7.3	124	-0.02	4.24
13	t	Decane	1.466	1.384	5.6	128	-0.02	4.71
24	I	Naphthalene-d8	1.000	1.000	0.0	156	-0.02	5.75
27	t	Quinoline	0.675	0.577	14.5	139	-0.03	6.01
40	t	2,3-Dichloroaniline	0.375	0.261	30.4#	116	-0.02	6.51
41	t	Caprolactam	0.107	0.090	15.9	137	-0.04	6.05
45	t	1-Methylnaphthalene	0.613	0.495	19.2	135	-0.02	6.36
46	t	Dimethylnaphthalene	0.597	0.485	18.8	136	-0.02	6.81
47	I	Acenaphthene-d10	1.000	1.000	0.0	132	-0.02	7.22
48	t	Hexachlorocyclopentadiene	0.406	0.460	-13.3	150	-0.02	6.41
53	t	Biphenyl	1.506	1.507	-0.1	136	-0.02	6.67
		----------	True	Calc.	% Drift	----------		
60	t	2,4-Dinitrophenol	100.000	104.738	-4.7	128	-0.03	7.27
		----------	AvgRF	CCRF	% Dev	----------		
69	I	Phenanthrene-d10	1.000	1.000	0.0	127	-0.04	9.16
82	t	Octadecane	0.498	0.514	-3.2	131	-0.03	9.06
83	I	Chrysene-d12	1.000	1.000	0.0	117	-0.06	14.50
91	I	Perylene-d12	1.000	1.000	0.0	113	-0.05	17.56
99	t	7,12-Dimethylbenz(a)anthr	0.531	0.453	14.7	93	-0.06	16.83

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3p53011a.D M3P2413.M Tue May 03 11:18:55 2016

Continuing Calibration Summary

Job Number: JC20098 **Sample:** E3P2447-CC2413
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3P53784.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\E3P2447\3p53784.D Vial: 2
Acq On : 25 May 2016 11:42 am Operator: robertl1
Sample : CC2413-50 Inst : MSGC3P
Misc : op94042,e3p2447 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M3P2413.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon May 02 10:04:19 2016
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	85	-0.03	4.74
2	t	1,4-Dioxane	0.618	0.506	18.1	70	-0.10	2.30
3	t	Pyridine	1.459	1.348	7.6	75	-0.08	2.62
4	t	N-Nitrosodimethylamine	0.726	1.387	-91.0#	157	-0.07	2.59
5	S	2-Fluorophenol	1.357	1.323	2.5	82	-0.03	3.76
6	t	Indene	2.199	2.103	4.4	84	-0.03	4.93
7	t	Cumene	3.293	3.533	-7.3	91	-0.05	4.14
8	S	Phenol-d5	1.709	1.593	6.8	78	0.00	4.49
9	t	Phenol	1.739	1.723	0.9	84	-0.01	4.49
10		Aniline	2.009	1.549	22.9#	68	-0.03	4.50
11	t	bis(2-Chloroethyl)ether	1.285	1.088	15.3	73	-0.03	4.55
12	t	2-Chlorophenol	1.399	1.358	2.9	83	-0.02	4.59
13	t	Decane	1.466	1.234	15.8	72	-0.04	4.61
14	t	1,3-Dichlorobenzene	1.584	1.572	0.8	87	-0.03	4.70
15	t	1,4-Dichlorobenzene	1.610	1.591	1.2	86	-0.03	4.76
16	t	Benzyl alcohol	0.842	0.814	3.3	83	-0.02	4.85
17	t	1,2-Dichlorobenzene	1.478	1.461	1.2	87	-0.03	4.86
18	t	Acetophenone	1.728	1.846	-6.8	94	-0.02	5.04
19	t	2-Methylphenol	1.153	1.116	3.2	85	-0.03	4.94
20	t	2,2'-oxybis(1-Chloropropa	1.839	1.236	32.8#	60	-0.03	4.94
21	t	3&4-Methylphenol	1.228	1.153	6.1	82	-0.03	5.04
22	t	n-Nitroso-di-n-propylamin	0.973	1.014	-4.2	91	-0.03	5.04
23	t	Hexachloroethane	0.550	0.611	-11.1	100	-0.03	5.11
24	I	Naphthalene-d8	1.000	1.000	0.0	82	-0.03	5.67
25	S	Nitrobenzene-d5	0.408	0.474	-16.2	96	-0.04	5.15
26	t	Nitrobenzene	0.417	0.470	-12.7	95	-0.03	5.17
27	t	Quinoline	0.675	0.670	0.7	84	-0.03	5.94
28	t	Isophorone	0.693	0.714	-3.0	85	-0.04	5.34
29	t	2-Nitrophenol	0.207	0.224	-8.2	89	-0.03	5.40
30	t	2,4-Dimethylphenol	0.350	0.385	-10.0	93	-0.02	5.42
31	t	Benzoic acid	0.288	0.312	-8.3	86	0.00	5.53
32	t	bis(2-Chloroethoxy)methan	0.419	0.368	12.2	74	-0.03	5.49
33	t	2,4-Dichlorophenol	0.314	0.338	-7.6	91	-0.02	5.57
34	t	2,6-Dichlorophenol	0.305	0.326	-6.9	92	-0.03	5.73
35		1,3,5-Trichlorobenzene	0.371	0.419	-12.9	97	-0.04	5.40
36	t	1,2,4-Trichlorobenzene	0.356	0.382	-7.3	93	-0.03	5.63
37		1,2,3-Trichlorobenzene	0.338	0.349	-3.3	91	-0.03	5.79
38	t	Naphthalene	1.055	1.051	0.4	85	-0.03	5.69
39	t	4-Chloroaniline	0.441	0.414	6.1	83	-0.03	5.73
40	t	2,3-Dichloroaniline	0.375	0.397	-5.9	92	-0.03	6.42
41	t	Caprolactam	0.107	0.104	2.8	83	-0.01	6.01

Continuing Calibration Summary

Job Number: JC20098 **Sample:** E3P2447-CC2413
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3P53784.D
Project: BMSMC, Building 5 Area, PR

42	t	Hexachlorobutadiene	0.202	0.257	-27.2#	110	-0.04	5.77
43	t	4-Chloro-3-methylphenol	0.294	0.339	-15.3	98	-0.02	6.08
44	t	2-Methylnaphthalene	0.596	0.637	-6.9	92	-0.04	6.19
45	t	1-Methylnaphthalene	0.613	0.647	-5.5	92	-0.03	6.27
46	t	Dimethylnaphthalene	0.597	0.639	-7.0	93	-0.04	6.71
47	I	Acenaphthene-d10	1.000	1.000	0.0	88	-0.04	7.11
48	t	Hexachlorocyclopentadiene	0.406	0.394	3.0	85	-0.04	6.31
49	t	2,4,6-Trichlorophenol	0.414	0.453	-9.4	101	0.02	6.42
50	t	2,4,5-Trichlorophenol	0.431	0.462	-7.2	97	-0.05	6.46
51	S	2-Fluorobiphenyl	1.340	1.382	-3.1	94	-0.03	6.48
52	t	2-Chloronaphthalene	1.182	1.191	-0.8	94	-0.04	6.59
53	t	Biphenyl	1.506	1.525	-1.3	91	-0.04	6.57
54	t	2-Nitroaniline	0.367	0.482	-31.3#	114	-0.03	6.69
55	t	Dimethylphthalate	1.288	1.426	-10.7	101	-0.04	6.84
56	t	Acenaphthylene	1.915	1.861	2.8	89	-0.04	6.97
57	t	2,6-Dinitrotoluene	0.297	0.306	-3.0	92	-0.03	6.91
58	t	3-Nitroaniline	0.335	0.333	0.6	89	-0.03	7.07
59	t	Acenaphthene	1.214	1.261	-3.9	94	-0.05	7.14
		----------	True	Calc.	% Drift	----------		
60	t	2,4-Dinitrophenol	100.000	103.815	-3.8	90	-0.02	7.19
		----------	AvgRF	CCRF	% Dev	----------		
61	t	4-Nitrophenol	0.174	0.363	-108.6#	172	0.00	7.26
62	t	Dibenzofuran	1.626	1.714	-5.4	95	-0.05	7.32
63	t	2,4-Dinitrotoluene	0.390	0.467	-19.7	103	-0.03	7.32
64		2,3,4,6-Tetrachlorophenol	0.356	0.389	-9.3	97	-0.03	7.46
65	t	Diethylphthalate	1.312	1.607	-22.5#	110	-0.05	7.57
66	t	Fluorene	1.336	1.452	-8.7	99	-0.05	7.71
67	t	4-Chlorophenyl-phenylethe	0.633	0.723	-14.2	103	-0.05	7.71
68	t	4-Nitroaniline	0.336	0.311	7.4	84	-0.03	7.76
69	I	Phenanthrene-d10	1.000	1.000	0.0	93	-0.05	9.03
70	t	4,6-Dinitro-2-methylpheno	0.133	0.155	-16.5	98	-0.02	7.79
71	t	n-Nitrosodiphenylamine	0.529	0.536	-1.3	97	-0.05	7.86
72	t	1,2-Diphenylhydrazine	0.806	0.877	-8.8	103	-0.05	7.91
73	S	2,4,6-Tribromophenol	0.119	0.136	-14.3	109	-0.05	8.02
74	t	4-Bromophenyl-phenylether	0.228	0.251	-10.1	107	-0.06	8.36
75	t	Hexachlorobenzene	0.250	0.274	-9.6	110	-0.05	8.44
76	t	Pentachlorophenol	0.176	0.178	-1.1	94	-0.04	8.74
77	t	Phenanthrene	1.140	1.131	0.8	96	-0.05	9.07
78	t	Anthracene	1.155	1.135	1.7	95	-0.05	9.15
79	t	Carbazole	1.037	0.996	4.0	93	-0.04	9.44
80	t	Di-n-butylphthalate	1.383	1.559	-12.7	104	-0.07	10.13
81	t	Fluoranthene	1.304	1.406	-7.8	100	-0.05	11.23
82	t	Octadecane	0.498	0.419	15.9	78	-0.08	8.90
83	I	Chrysene-d12	1.000	1.000	0.0	97	-0.07	14.36
84	t	Pyrene	1.273	1.264	0.7	100	-0.09	11.69
85	S	Terphenyl-d14	0.796	0.840	-5.5	107	-0.09	12.11
86	t	Butylbenzylphthalate	0.585	0.661	-13.0	108	-0.10	13.29
87	t	Benzo[a]anthracene	1.201	1.207	-0.5	103	-0.07	14.34
88	t	3,3'-Dichlorobenzidine	0.426	0.452	-6.1	111	-0.07	14.37
89	t	Chrysene	1.114	1.094	1.8	99	-0.07	14.42
90	t	bis(2-Ethylhexyl)phthalat	0.796	0.893	-12.2	109	-0.10	14.69
91	I	Perylene-d12	1.000	1.000	0.0	92	-0.06	17.43
92	t	Di-n-octylphthalate	1.582	1.901	-20.2#	108	-0.06	16.15
93	t	Benzo[b]fluoranthene	1.317	1.431	-8.7	102	-0.07	16.67

Continuing Calibration Summary

Job Number: JC20098 **Sample:** E3P2447-CC2413
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3P53784.D
Project: BMSMC, Building 5 Area, PR

94	t	Benzo[k]fluoranthene	1.222	1.280	-4.7	101	-0.07	16.74
95	t	Benzo[a]pyrene	1.146	1.188	-3.7	98	-0.06	17.31
96	t	Indeno[1,2,3-cd]pyrene	1.081	1.105	-2.2	94	-0.04	19.39
97	t	Dibenz(a,h)acridine	0.983	1.022	-4.0	98	-0.05	19.02
98	t	Dibenz[a,h]anthracene	1.078	1.097	-1.8	95	-0.04	19.44
99	t	7,12-Dimethylbenz(a)anthr	0.531	0.615	-15.8	103	-0.09	16.68
100	t	Benzo[g,h,i]perylene	1.114	1.138	-2.2	97	-0.04	19.82

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3p53011a.D M3P2413.M Wed May 25 14:54:28 2016

Continuing Calibration Summary

Job Number: JC20098 **Sample:** E3P2447-CC2414
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3P53785.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\data\E3P2447\3p53785.D          Vial: 3
Acq On    : 25 May 2016  12:17 pm                    Operator: robertl1
Sample    : CC2414-50                                Inst    : MSGC3P
Misc      : op94042,e3p2447                          Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M3P2413.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Mon May 02 10:04:19 2016
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.
101	I	1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	65	-0.03	4.74
102		Benzaldehyde	0.954	0.882	7.5	59	-0.03	4.42
103	I	Acenaphthene-d10a	1.000	1.000	0.0	65	-0.05	7.10
104		Atrazine	0.164	0.229	-39.6#	85	-0.05	8.62
105		1,2,4,5-Tetrachlorobenzen	0.565	0.673	-19.1	76	-0.03	6.32
106	I	Chrysene-d12a	1.000	1.000	0.0	75	-0.08	14.35
107		Benzidine	0.491	0.482	1.8	61	-0.09	11.59
108	I	Naphthalene-d8a	1.000	1.000	0.0	63	-0.04	5.67
109	t	Hydroquinone	0.269	0.333	-23.8#	66	0.00	5.96

```
(#) = Out of Range              SPCC's out = 0  CCC's out = 0
 3p53011a.D M3P2413.M        Wed May 25 14:54:30 2016
```

Initial Calibration Summary

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E4M2930-ICC2930
Lab FileID: 4M65479.D

Response Factor Report GCMS4M

Method : C:\MSDCHEM\1\METHODS\M4M2930SIM.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
Last Update : Tue May 24 15:19:32 2016
Response via : Initial Calibration

Calibration Files
0.05=4m65483.D .2 =4m65481.D 2.5 =4m65487.D .02 =4m65484.D
.1 =4m65482.D 1 =4m65479.D .01 =4m65485.D .5 =4m65480.D
5 =4m65486.D = = =

Compound

	0.05	.2	2.5	.02	.1	1	.01	.5	5	Avg	%RSD
1) I 1-Methylnaphthalene-d ----------ISTD----------											
2) 2-Fluorophenol											
	0.736	0.818	0.765	0.690	0.733	0.667		0.727	0.820	0.745	7.35
3) Phenol-d5											
	1.305	1.419	1.362	1.223	1.299	1.196		1.276	1.387	1.308	5.94
4) Phenol											
	1.411	1.558	1.463	1.299	1.388	1.265		1.375	1.462	1.403	6.71
5) bis(2-Chloroethyl)ether											
	1.026	1.125	1.073	0.907	1.010	0.941	1.311	1.023	1.080	1.055	11.13
6) Nitrobenzene-d5											
	1.004	1.132	1.110	0.920	1.004	0.973		1.020	1.150	1.039	7.91
7) Naphthalene											
	2.813	3.088	2.877	2.676	2.794	2.526	3.603	2.754	2.878	2.890	10.67
8) Hexachlorobutadiene											
	0.523	0.570	0.522	0.493	0.510	0.473	0.711	0.500	0.528	0.537	13.18
9) 2-Methylnaphthalene											
	1.158	1.155	0.976	1.401	1.084	0.957		0.981	0.985	1.087	13.85
10) Hexachlorocyclopentadiene											
		0.025	0.091		0.011	0.089		0.044	0.131	0.065	70.13
---- Quadratic regression ---- Coefficient = 0.9985											
Response Ratio = -0.00233 + 0.06141 *A + 0.02799 *A^2											
11) 2-Fluorobiphenyl											
	1.636	1.863	1.805	1.573	1.667	1.553		1.683	1.575	1.669	6.75
12) I Fluorene-d10 ----------ISTD----------											
13) Acenaphthylene											
	0.991	1.192	0.901	1.043	0.930	1.054	1.487	1.063	0.887	1.061	17.54
14) Acenaphthene											
	0.555	0.714	0.533	0.647	0.560	0.628		0.630	0.524	0.599	11.09
15) Dibenzofuran											
	0.814	1.001	0.812	0.874	0.822	0.835		0.878	0.744	0.847	8.82
16) Fluorene											
	0.778	0.933	0.695	0.828	0.761	0.801		0.778	0.682	0.782	10.04
17) 2,4,6-Tribromophenol											
	0.138	0.183	0.162		0.144	0.167		0.167	0.141	0.157	10.56
18) Hexachlorobenzene											
	0.366	0.443	0.336	0.377	0.348	0.361	0.556	0.371	0.315	0.386	18.85
19) Pentachlorophenol											
	0.049	0.080	0.092		0.048	0.146		0.099	0.114	0.090	38.92
20) Phenanthrene											
	1.261	1.631	1.291	1.462	1.254	1.377		1.366	1.147	1.349	11.01
21) Anthracene											
	1.258	1.502	1.182	1.512	1.245	1.426		1.350	1.177	1.332	10.24

Initial Calibration Summary

Job Number: JC20098 **Sample:** E4M2930-ICC2930
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4M65479.D
Project: BMSMC, Building 5 Area, PR

```
22) I   Fluoranthene-d10      ----------------ISTD---------------------
23)  Fluoranthene
           0.871 0.910 0.701       0.818 0.753       0.818 0.846        0.817    8.66
24)  Pyrene
           0.836 0.848 0.711       0.785 0.767       0.815 0.825        0.798    5.98
25)  Terphenyl-d14
           0.461 0.475 0.441 0.453 0.451 0.449       0.487 0.436        0.457    3.75
26)  Benzo[a]anthracene
           0.903 0.836 0.646       0.773 0.708       0.749 0.717        0.762   11.25
27)  Chrysene
           0.896 0.850 0.650       0.799 0.693       0.753 0.733        0.768   11.30

28) I   Benzo(a)pyrene-d12    ----------------ISTD---------------------
29)  Benzo[b]fluoranthene
                 1.749 1.117       2.242 1.307       1.472              1.577   27.75
30)  Benzo[k]fluoranthene
                 1.375 0.958       1.220 0.862       0.886 0.983        1.047   19.57
31)  Benzo[a]pyrene
           1.928 1.280 0.957       1.416 0.943       0.994 0.930        1.207   30.68
32)  Indeno[1,2,3-cd]pyrene
                 1.688 1.154       1.714 1.174       1.310 1.145        1.364   19.62
33)  Dibenz[a,h]anthracene
           1.482 1.173 0.897       1.168 0.941       1.011 0.939        1.087   18.96
34)  Benzo[g,h,i]perylene
           2.098 1.510 1.012       1.530 1.031       1.137 1.008        1.332   30.55

35) I   1-Methylnaphthalene-d ----------------ISTD---------------------
36)  1,4-Dioxane
                 0.554 0.399       0.732 0.349       0.647 0.534        0.536   27.04
             ---- Quadratic regression ----  Coefficient =  0.9971
               Response Ratio = 0.02315 + 0.22157 *A + 0.23423 *A^2

37)  1-Methylnaphthalene
           1.052 1.130 1.116 1.030 1.064 0.908 1.375 0.958 1.130        1.085   12.23

38) I   Fluorene-d10a         ----------------ISTD---------------------
39)  4,6-dinitro-2-methylphenol
           0.059 0.080 0.128       0.061 0.136       0.087 0.150        0.100   37.34
             ---- Quadratic regression ----  Coefficient =  0.9988
               Response Ratio = -0.00599 + 0.11477 *A + 0.00578 *A^2

40)  1,2-Diphenylhydrazine
                 1.183 0.894       0.825 1.109       1.021 0.907        0.990   13.95
41)  n-nitrosodiphenylamine
                 0.624 0.463       0.499 0.536       0.524 0.439        0.514   12.62
-------------------------------------------------------------------------------
(#) = Out of Range  ###  Number of calibration levels exceeded format  ###

          M4M2930SIM.M        Tue May 24 16:09:33 2016   MANAGER
```

6.7.33

6

Initial Calibration Verification

Job Number: JC20098 **Sample:** E4M2930-ICV2930
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4M65488.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\E4M2930\4m65488.D Vial: 11
Acq On : 24 May 2016 3:36 pm Operator: linseyk
Sample : icv2930-1 Inst : GCMS4M
Misc : op93641a,e4m2930 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M4M2930SIM.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
Last Update : Tue May 24 15:19:32 2016
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-Methylnaphthalene-d10	1.000	1.000	0.0	72	0.00	9.86
5	t	bis(2-Chloroethyl)ether	1.055	1.302	-23.4	99	0.00	5.66
7	t	Naphthalene	2.890	3.476	-20.3	98	0.00	8.38
8	t	Hexachlorobutadiene	0.537	0.629	-17.1	95	0.00	8.66
9	t	2-Methylnaphthalene	1.087	1.197	-10.1	89	0.00	9.74
		----------	True	Calc.	% Drift	----------		
10	t	Hexachlorocyclopentadiene	2.000	1.938	3.1	46	0.00	10.08
		----------	AvgRF	CCRF	% Dev	----------		
12	I	Fluorene-d10	1.000	1.000	0.0	64	0.00	12.83
13	t	Acenaphthylene	1.061	1.453	-36.9#	88	0.00	11.50
14	t	Acenaphthene	0.599	0.911	-52.1#	92	0.00	11.85
15	t	Dibenzofuran	0.847	1.219	-43.9#	93	0.00	12.21
16	t	Fluorene	0.782	1.075	-37.5#	86	-0.02	12.87
18	t	Hexachlorobenzene	0.386	0.525	-36.0#	93	0.00	13.98
20	t	Phenanthrene	1.349	2.002	-48.4#	93	-0.01	14.79
21	t	Anthracene	1.332	1.815	-36.3#	81	0.00	14.90
22	I	Fluoranthene-d10	1.000	1.000	0.0	57	-0.01	17.01
23	t	Fluoranthene	0.817	1.138	-39.3#	86	0.00	17.05
24	t	Pyrene	0.798	1.124	-40.9#	83	0.00	17.45
26	t	Benzo[a]anthracene	0.762	1.002	-31.5#	80	0.00	19.52
27	t	Chrysene	0.768	1.012	-31.8#	83	-0.01	19.57
28	I	Benzo(a)pyrene-d12	1.000	1.000	0.0	63	0.00	21.62
29	t	Benzo[b]fluoranthene	1.577	1.613	-2.3	78	0.00	21.19
30	t	Benzo[k]fluoranthene	1.047	1.545	-47.6#	113	0.00	21.23
31	t	Benzo[a]pyrene	1.207	1.418	-17.5	95	0.00	21.64
32	t	Indeno[1,2,3-cd]pyrene	1.364	1.773	-30.0	95	0.00	23.20
33	t	Dibenz[a,h]anthracene	1.087	1.348	-24.0	90	0.00	23.24
34	t	Benzo[g,h,i]perylene	1.332	1.562	-17.3	96	0.00	23.61
35	I	1-Methylnaphthalene-d10a	1.000	1.000	0.0	72	0.00	9.86
		----------	True	Calc.	% Drift	----------		
36	t	1,4-Dioxane	1.000	0.965	3.5	74	-0.02	2.31
38	I	Fluorene-d10a	1.000	1.000	0.0	64	0.00	12.83
		----------	AvgRF	CCRF	% Dev	----------		

Initial Calibration Verification

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E4M2930-ICV2930
Lab FileID: 4M65488.D

40	t	1,2-Diphenylhydrazine	0.990	1.443	-45.8#	83	0.00	13.26
41	t	n-nitrosodiphenylamine	0.514	0.700	-36.2#	83	0.00	13.21

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4m65479.D M4M2930SIM.M Tue May 24 16:06:31 2016 MANAGER

Continuing Calibration Summary

Job Number: JC20098 **Sample:** E4M2931-CC2930
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4M65490.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E4M2931\4m65490.D          Vial: 2
Acq On    : 24 May 2016   4:18 pm                    Operator: linseyk
Sample    : cc2930-1                                 Inst    : GCMS4M
Misc      : op93641a,e4m2931                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M4M2930SIM.M (RTE Integrator)
Title        : Semi Volatile  GC/MS,zb-5 15m x .25mm x .50um
Last Update  : Tue May 24 15:19:32 2016
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-Methylnaphthalene-d10	1.000	1.000	0.0	75	0.00	9.86
2	S	2-Fluorophenol	0.745	0.803	-7.8	90	-0.01	4.11
3	S	Phenol-d5	1.308	1.399	-7.0	87	0.00	5.51
4	t	Phenol	1.403	1.519	-8.3	90	0.00	5.53
5	t	bis(2-Chloroethyl)ether	1.055	1.121	-6.3	89	0.00	5.66
6	S	Nitrobenzene-d5	1.039	1.123	-8.1	86	0.00	7.04
7	t	Naphthalene	2.890	3.037	-5.1	90	0.00	8.38
8	t	Hexachlorobutadiene	0.537	0.553	-3.0	87	0.00	8.66
9	t	2-Methylnaphthalene	1.087	1.015	6.6	79	0.00	9.74
		----------	True	Calc.	% Drift	----------		
10	t	Hexachlorocyclopentadiene	2.000	1.949	2.5	57	0.00	10.08
		----------	AvgRF	CCRF	% Dev	----------		
11	S	2-Fluorobiphenyl	1.669	1.853	-11.0	89	0.00	10.51
12	I	Fluorene-d10	1.000	1.000	0.0	91	0.00	12.83
13	t	Acenaphthylene	1.061	0.950	10.5	82	0.00	11.50
14	t	Acenaphthene	0.599	0.563	6.0	81	0.00	11.85
15	t	Dibenzofuran	0.847	0.852	-0.6	92	0.00	12.21
16	t	Fluorene	0.782	0.750	4.1	85	-0.02	12.87
17	S	2,4,6-Tribromophenol	0.157	0.169	-7.6	92	0.00	13.38
18	t	Hexachlorobenzene	0.386	0.355	8.0	89	0.00	13.98
19	t	Pentachlorophenol	0.090	0.094	-4.4	58	0.00	14.41
20	t	Phenanthrene	1.349	1.270	5.9	83	-0.02	14.79
21	t	Anthracene	1.332	1.252	6.0	79	0.00	14.90
22	I	Fluoranthene-d10	1.000	1.000	0.0	72	-0.02	17.01
23	t	Fluoranthene	0.817	0.851	-4.2	81	0.00	17.04
24	t	Pyrene	0.798	0.846	-6.0	79	0.00	17.44
25	S	Terphenyl-d14	0.457	0.524	-14.7	83	0.00	17.82
26	t	Benzo[a]anthracene	0.762	0.718	5.8	73	0.00	19.53
27	t	Chrysene	0.768	0.757	1.4	78	0.00	19.59
28	I	Benzo(a)pyrene-d12	1.000	1.000	0.0	79	0.00	21.61
29	t	Benzo[b]fluoranthene	1.577	1.118	29.1#	68	0.00	21.18
30	t	Benzo[k]fluoranthene	1.047	1.089	-4.0	100	0.00	21.23
31	t	Benzo[a]pyrene	1.207	1.031	14.6	87	0.00	21.64
32	t	Indeno[1,2,3-cd]pyrene	1.364	1.213	11.1	82	-0.01	23.19
33	t	Dibenz[a,h]anthracene	1.087	0.979	9.9	82	0.00	23.25
34	t	Benzo[g,h,i]perylene	1.332	1.086	18.5	83	0.00	23.61

Continuing Calibration Summary

Job Number: JC20098 **Sample:** E4M2931-CC2930
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4M65490.D
Project: BMSMC, Building 5 Area, PR

35	I	1-Methylnaphthalene-d10a	1.000	1.000	0.0	75	0.00	9.86
		----------	True	Calc.	% Drift	----------		
36	t	1,4-Dioxane	1.000	1.145	-14.5	90	-0.01	2.32
		----------	AvgRF	CCRF	% Dev	----------		
37	t	1-Methylnaphthalene	1.085	1.129	-4.1	93	0.00	9.91
38	I	Fluorene-d10a	1.000	1.000	0.0	91	0.00	12.83
		----------	True	Calc.	% Drift	----------		
39	t	4,6-dinitro-2-methylpheno	5.000	4.230	15.4	65	0.00	13.07
		----------	AvgRF	CCRF	% Dev	----------		
40	t	1,2-Diphenylhydrazine	0.990	0.915	7.6	75	0.00	13.26
41	t	n-nitrosodiphenylamine	0.514	0.479	6.8	81	-0.02	13.19

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4m65479.D M4M2930SIM.M Wed May 25 08:18:19 2016 MANAGER

Initial Calibration Summary

Job Number: JC20098 **Sample:** E6P1209-ICC1209
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 6P25928.D
Project: BMSMC, Building 5 Area, PR

Response Factor Report MS6P

Method : C:\MSDCHEM\1\METHODS\M6P1209.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuMon May 16 17:22:40 2016
Last Update : Mon May 16 17:22:40 2016
Response via : Initial Calibration

Calibration Files
2 =6p25924.D 5 =6p25931.D 25 =6p25929.D 80 =6p25927.D
100 =6p25926.D 50 =6p25928.D 1 =6p25925.D 10 =6p25930.D

Compound	2	5	25	80	100	50	1	10	Avg	%RSD
1) I 1,4-Dichlorobenzene-d	----------ISTD----------									
2) 1,4-Dioxane	0.758	0.720	0.669	0.654	0.650	0.667	0.925	0.639	0.710	13.45
3) Pyridine	1.882	1.894	1.743	1.747	1.775	1.779	1.850	1.714	1.798	3.79
4) N-Nitrosodim	1.207	1.111	1.056	1.048	1.056	1.067	1.053	0.992	1.074	5.85
5) 2-Fluorophen	1.635	1.645	1.473	1.440	1.451	1.470	1.666	1.414	1.524	6.88
6) Indene	2.899	3.049	2.684	2.462	2.384	2.611	3.046	2.634	2.721	9.29
7) Cumene	4.188	4.260	3.802	3.535	3.430	3.680	4.280	3.712	3.861	8.71
8) Phenol-d5	2.107	2.190	1.943	1.866	1.874	1.922	2.141	1.919	1.995	6.48
9) Phenol	2.238	2.236	2.086	2.112	2.097	2.077	2.277	1.994	2.140	4.62
10) Aniline	2.723	2.778	2.230	2.141	2.121	2.187	2.860	2.372	2.427	12.78
11) bis(2-Chloro	1.638	1.665	1.484	1.415	1.414	1.461	1.624	1.463	1.521	6.85
12) 2-Chlorophen	1.626	1.662	1.522	1.462	1.452	1.486	1.700	1.500	1.551	6.23
13) Decane	2.253	2.211	1.901	1.735	1.681	1.842	2.386	1.909	1.990	13.05
14) 1,3-Dichloro	1.744	1.798	1.580	1.496	1.488	1.553	1.777	1.553	1.624	7.90
15) 1,4-Dichloro	1.748	1.835	1.594	1.504	1.484	1.574	1.839	1.587	1.646	8.64
16) Benzyl alcoh	1.111	1.144	1.035	0.993	0.995	1.028	1.151	1.025	1.060	6.13
17) 1,2-Dichloro	1.708	1.685	1.485	1.402	1.385	1.466	1.861	1.476	1.559	10.98
18) Acetophenone	2.475	2.547	2.166	1.998	1.950	2.124	2.490	2.216	2.246	10.29
19) 2-Methylphen	1.544	1.588	1.432	1.376	1.358	1.415	1.680	1.421	1.477	7.73
20) 2,2'-oxybis(	0.599	0.594	0.528	0.493	0.491	0.514	0.622	0.513	0.544	9.61
21) 3&4-Methylph	1.686	1.678	1.523	1.448	1.413	1.514	1.721	1.479	1.558	7.66
22) n-Nitroso-di	1.483	1.484	1.282	1.200	1.207	1.257	1.516	1.287	1.339	9.87
23) Hexachloroet	0.509	0.532	0.478	0.463	0.459	0.476	0.539	0.466	0.490	6.49
24) I Naphthalene-d8	----------ISTD----------									
25) Nitrobenzene	0.482	0.492	0.437	0.419	0.411	0.422	0.474	0.431	0.446	7.03
26) Nitrobenzene	0.507	0.523	0.456	0.432	0.423	0.436	0.501	0.450	0.466	8.33
27) Quinoline	0.788	0.817	0.730	0.696	0.698	0.707	0.822	0.709	0.746	7.25
28) Isophorone	0.849	0.882	0.770	0.716	0.713	0.731	0.908	0.756	0.791	9.83
29) 2-Nitropheno	0.204	0.215	0.196	0.185	0.180	0.189	0.214	0.190	0.197	6.66
30) 2,4-Dimethyl	0.366	0.401	0.351	0.364	0.358	0.353	0.392	0.338	0.365	5.81
31) Benzoic acid		0.164	0.212	0.264	0.281	0.244		0.162	0.221	22.90
----- Quadratic regression -----								Coefficient =		0.9998
Response Ratio = -0.01041 + 0.21320 *A + 0.02868 *A^2										
32) bis(2-Chloro	0.499	0.490	0.433	0.408	0.402	0.415	0.504	0.424	0.447	9.69
33) 2,4-Dichloro	0.301	0.303	0.271	0.265	0.259	0.266	0.318	0.261	0.281	8.27
34) 2,6-Dichloro	0.298	0.290	0.268	0.249	0.244	0.256	0.298	0.256	0.270	8.21
35) 1,3,5-Trichl	0.350	0.340	0.301	0.275	0.264	0.291	0.347	0.300	0.308	10.78
36) 1,2,4-Trichl	0.315	0.318	0.290	0.274	0.268	0.280	0.336	0.280	0.295	8.39
37) 1,2,3-Trichl	0.318	0.319	0.285	0.270	0.260	0.274	0.323	0.274	0.290	8.79
38) Naphthalene	1.249	1.238	1.099	1.027	0.989	1.056	1.295	1.074	1.128	10.20
39) 4-Chloroanil	0.505	0.507	0.451	0.417	0.402	0.427	0.533	0.441	0.460	10.44
40) 2,3-Dichloro	0.379	0.380	0.343	0.314	0.310	0.323	0.400	0.334	0.348	9.80
41) Caprolactam	0.190	0.195	0.190	0.179	0.187	0.184	0.215	0.173	0.189	6.64
42) Hexachlorobu	0.165	0.162	0.150	0.141	0.135	0.142	0.165	0.146	0.151	7.82

```
43) 4-Chloro-3-m 0.380 0.361 0.343 0.330 0.329 0.333 0.376 0.326 0.347   6.33
44) 2-Methylnaph 0.674 0.678 0.597 0.553 0.541 0.568 0.646 0.589 0.606   8.90
45) 1-Methylnaph 0.663 0.684 0.613 0.569 0.559 0.593 0.686 0.610 0.622   8.03
46) Dimethylnaph 0.682 0.688 0.631 0.584 0.580 0.607 0.684 0.620 0.635   7.09

47) I   Acenaphthene-d10      ----------------ISTD---------------------
48) Hexachlorocy 0.254 0.295 0.290 0.300 0.295 0.291 0.261 0.255 0.280   7.03
49) 2,4,6-Trichl 0.334 0.353 0.324 0.323 0.309 0.320 0.329 0.306 0.325   4.50
50) 2,4,5-Trichl 0.363 0.371 0.352 0.358 0.354 0.353 0.372 0.328 0.356   3.87
51) 2-Fluorobiph 1.376 1.409 1.247 1.235 1.163 1.225 1.457 1.205 1.290   8.38
52) 2-Chloronaph 1.234 1.265 1.103 1.080 1.027 1.067 1.285 1.073 1.142   8.94
53) Biphenyl     1.662 1.690 1.489 1.441 1.372 1.456 1.726 1.433 1.534   8.90
54) 2-Nitroanili 0.414 0.416 0.433 0.442 0.437 0.430 0.369 0.386 0.416   6.25
55) Dimethylphth 1.418 1.451 1.286 1.262 1.219 1.260 1.513 1.247 1.332   8.33
56) Acenaphthyle 2.056 2.104 1.882 1.839 1.761 1.839 2.012 1.819 1.914   6.56
57) 2,6-Dinitrot 0.243 0.299 0.282 0.288 0.284 0.285 0.242 0.262 0.273   7.87
58) 3-Nitroanili 0.337 0.379 0.357 0.353 0.351 0.348 0.326 0.338 0.348   4.56
59) Acenaphthene 1.326 1.285 1.166 1.143 1.102 1.140 1.358 1.135 1.207   8.25
60) 2,4-Dinitrop 0.033 0.076 0.126 0.160 0.166 0.146       0.086 0.113  43.83
         ----- Quadratic regression -----                Coefficient =  0.9997
              Response Ratio = -0.01687 + 0.13321 *A + 0.00741 *A^2

61) 4-Nitropheno 0.206 0.196 0.212 0.219 0.224 0.216 0.184 0.182 0.205   7.76
62) Dibenzofuran 1.796 1.732 1.551 1.473 1.417 1.496 1.833 1.540 1.605   9.88
63) 2,4-Dinitrot 0.366 0.393 0.390 0.386 0.371 0.383 0.291 0.353 0.367   9.06
64) 2,3,4,6-Tetr 0.270 0.252 0.249 0.264 0.262 0.258 0.241 0.224 0.253   5.83
65) Diethylphtha 1.509 1.456 1.332 1.283 1.259 1.284 1.450 1.277 1.356   7.32
66) Fluorene     1.525 1.451 1.319 1.267 1.230 1.281 1.404 1.274 1.344   7.76
67) 4-Chlorophen 0.690 0.665 0.582 0.559 0.539 0.557 0.659 0.583 0.604   9.61
68) 4-Nitroanili 0.410 0.386 0.359 0.351 0.355 0.351 0.358 0.350 0.365   5.93

69) I   Phenanthrene-d10      ----------------ISTD---------------------
70) 4,6-Dinitro-       0.083 0.111 0.132 0.137 0.123       0.082 0.111  21.48
         ----- Quadratic regression -----                Coefficient =  0.9999
              Response Ratio = -0.00664 + 0.11655 *A + 0.00914 *A^2

71) n-Nitrosodip 0.581 0.604 0.552 0.537 0.522 0.538 0.599 0.537 0.559   5.61
72) 1,2-Diphenyl 1.079 1.112 0.993 0.956 0.928 0.964 1.039 0.970 1.005   6.45
73) 2,4,6-Tribro 0.110 0.096 0.100 0.105 0.104 0.104 0.091 0.091 0.100   6.86
74) 4-Bromopheny 0.221 0.214 0.198 0.192 0.187 0.194 0.213 0.190 0.201   6.37
75) Hexachlorobe 0.223 0.234 0.215 0.212 0.204 0.215 0.244 0.211 0.220   6.03
76) Pentachlorop 0.130 0.107 0.128 0.141 0.144 0.138       0.101 0.127  13.18
77) Phenanthrene 1.264 1.249 1.125 1.091 1.046 1.101 1.301 1.100 1.160   8.28
78) Anthracene   1.293 1.223 1.124 1.095 1.068 1.110 1.195 1.086 1.149   6.90
79) Carbazole    1.181 1.161 1.057 1.034 0.999 1.039 1.170 1.014 1.082   7.00
80) Di-n-butylph 1.534 1.402 1.364 1.323 1.295 1.333 1.367 1.272 1.361   5.96
81) Fluoranthene 1.379 1.286 1.205 1.163 1.144 1.178 1.348 1.153 1.232   7.54
82) Octadecane   0.670 0.629 0.614 0.581 0.555 0.590 0.566 0.582 0.598   6.25

83) I   Chrysene-d12          ----------------ISTD---------------------
84) Pyrene       1.477 1.465 1.323 1.307 1.237 1.286 1.478 1.281 1.357   7.35
85) Terphenyl-d1 0.901 0.885 0.825 0.834 0.791 0.810 0.862 0.795 0.838   4.87
86) Butylbenzylp 0.721 0.513 0.602 0.635 0.618 0.614 0.577 0.501 0.598  11.71
87) Butyl steara 0.529 0.372 0.439 0.460 0.434 0.446 0.375 0.365 0.427  13.05
88) Benzo[a]anth 1.354 1.212 1.140 1.138 1.102 1.117 1.372 1.064 1.188   9.78
89) 3,3'-Dichlor 0.460 0.346 0.415 0.430 0.423 0.422 0.404 0.360 0.407   9.22
90) Chrysene     1.256 1.205 1.119 1.108 1.075 1.098 1.272 1.074 1.151   7.02
91) bis(2-Ethylh 1.210 0.634 0.829 0.885 0.858 0.854 0.842 0.679 0.849  20.28
         ----- Quadratic regression -----                Coefficient =  0.9990
              Response Ratio = -0.01528 + 0.86972 *A + 0.00141 *A^2
```

Initial Calibration Summary

Job Number: JC20098 **Sample:** E6P1209-ICC1209
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 6P25928.D
Project: BMSMC, Building 5 Area, PR

```
 92) I   Perylene-d12          ----------------ISTD---------------------
 93) Di-n-octylph 1.722 0.865 1.391 1.574 1.479 1.507 1.356 1.037 1.366  20.75
          ----- Quadratic regression -----                Coefficient =  0.9976
               Response Ratio = -0.06080 + 1.59412 *A + -0.02502 *A^2

 94) Benzo[b]fluo 1.360 1.133 1.237 1.293 1.298 1.264 1.385 1.149 1.265   7.13
 95) Benzo[k]fluo 1.363 1.348 1.208 1.149 1.036 1.171 1.360 1.149 1.223   9.91
 96) Benzo[a]pyre 1.197 0.999 1.077 1.100 1.060 1.105 1.147 0.966 1.081   6.90
 97) Indeno[1,2,3 1.182 0.850 1.118 1.221 1.147 1.197 1.187 0.887 1.099  13.27
 98) Dibenz(a,h)a 1.128 0.720 1.033 1.057 0.997 1.081 1.022 0.835 0.984  13.93
 99) Dibenz[a,h]a 1.336 1.053 1.212 1.242 1.157 1.247 1.210 1.057 1.189   8.14
100) 7,12-Dimethy 0.531 0.499 0.545 0.571 0.545 0.556 0.510 0.469 0.528   6.35
101) Benzo[g,h,i] 1.279 1.174 1.208 1.207 1.115 1.230 1.251 1.064 1.191   5.99


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

          M6P1209.M         Mon May 16 17:23:57 2016   ACLIMS
```

Initial Calibration Summary

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E6P1210-ICC1210
Lab FileID: 6P25940.D

```
                         Response Factor Report  MS6P

  Method       : C:\MSDCHEM\1\METHODS\M6P1209.M (RTE Integrator)
  Title        : Semi Volatile  GC/MS,zb-5msi 30m x .25mm x .25MoTuMon May 16 17:22:40 2016
  Last Update  : Mon May 16 17:22:40 2016
  Response via : Initial Calibration

  Calibration Files
  2   =6p25944.D  5   =6p25943.D  25  =6p25941.D  80  =6p25939.D
  100 =6p25938.D  50  =6p25940.D  1   =6p25945.D  10  =6p25942.D

   Compound          2     5     25    80    100   50    1     10    Avg %RSD
102)     1,4-Dichlorobenzene-d ----------------ISTD---------------------
103) Benzaldehyde 1.302 1.304 1.180 1.176 1.008 1.185 1.327 1.157 1.205   8.70

104)     Acenaphthene-d10a     ----------------ISTD---------------------
105) 1,2,4,5-Tetr 0.526 0.519 0.475 0.488 0.472 0.481 0.533 0.473 0.496   5.18

106)     Phenanthrene-d10a     ----------------ISTD---------------------
107) Atrazine     0.093 0.099 0.100 0.107 0.109 0.108 0.095 0.088 0.100   7.52
108) o-Terphenyl  0.561 0.596 0.534 0.538 0.539 0.548 0.570 0.529 0.552   4.10
109) 1-Chloroocta 0.325 0.387 0.383 0.382 0.389 0.393 0.325 0.364 0.368   7.65

110) I   Chrysene-d12a         ----------------ISTD---------------------
111) benzidine    0.064 0.097 0.322 0.479 0.472 0.420       0.141 0.285  63.63
          ----- Quadratic regression -----                Coefficient =  0.9971
               Response Ratio = -0.04616 + 0.41515 *A + 0.03379 *A^2

112) I   Naphthalene-d8a       ----------------ISTD---------------------
113) Hydroquinone 0.374 0.396 0.385 0.378 0.393 0.377 0.368 0.357 0.378   3.42


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

           M6P1209.M         Mon May 16 17:30:56 2016   ACLIMS
```

Initial Calibration Verification

Job Number: JC20098 **Sample:** E6P1210-ICV1209
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 6P25950.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\e6p1210\6p25950.D Vial: 14
Acq On : 13 May 2016 8:14 pm Operator: ariellec
Sample : icv1209-50 Inst : MS6P
Misc : op93693,e6p1210 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M6P1209.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuMon May 16 09:26:46 2016
Last Update : Mon May 16 09:26:46 2016
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	121	0.00	4.87
2	t	1,4-Dioxane	0.710	0.637	10.3	116	0.01	2.47
6	t	Indene	2.721	2.607	4.2	121	0.00	5.07
7	t	Cumene	3.861	3.550	8.1	117	0.00	4.26
13	t	Decane	1.990	1.604	19.4	106	0.00	4.74
18	t	Acetophenone	2.246	2.034	9.4	116	0.00	5.19
24	I	Naphthalene-d8	1.000	1.000	0.0	116	0.00	6.00
27	t	Quinoline	0.746	0.678	9.1	111	0.00	6.37
40	t	2,3-Dichloroaniline	0.348	0.286	17.8	103	0.00	7.11
41	t	Caprolactam	0.189	0.156	17.5	98	0.00	6.43
45	t	1-Methylnaphthalene	0.622	0.567	8.8	111	0.00	6.89
46	t	Dimethylnaphthalene	0.635	0.580	8.7	111	0.00	7.55
47	I	Acenaphthene-d10	1.000	1.000	0.0	111	0.00	8.11
48	t	Hexachlorocyclopentadiene	0.280	0.140	0.0	106	0.00	6.96
53	t	Biphenyl	1.534	1.462	4.7	111	0.00	7.35
69	I	Phenanthrene-d10	1.000	1.000	0.0	110	0.00	10.30
82	t	Octadecane	0.598	0.544	9.0	101	0.00	10.24
92	I	Perylene-d12	1.000	1.000	0.0	87	0.00	16.60
100	t	7,12-Dimethylbenz(a)anthr	0.528	0.519	1.7	81	0.00	16.08

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6p25940a.D M6P1209.M Mon May 16 11:53:26 2016 ACLIMS

Initial Calibration Verification

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E6P1210-ICV1210
Lab FileID: 6P25950A.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\e6p1210\6p25950a.D Vial: 14
Acq On : 13 May 2016 8:14 pm Operator: ariellec
Sample : icv1210-50 Inst : MS6P
Misc : op93693,e6p1210 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M6P1209.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuMon May 16 09:26:46 2016
Last Update : Mon May 16 09:26:46 2016
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	1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	132	0.00	4.87
103	Benzaldehyde	1.205	1.210	-0.4	135	0.00	4.53
106	Phenanthrene-d10a	1.000	1.000	0.0	127	0.00	10.30
107	Atrazine	0.100	0.111	-11.0	131	0.02	9.94

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6p25940a.D M6P1209.M Mon May 16 11:53:28 2016 ACLIMS

Initial Calibration Verification

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E6P1210-ICV1209
Lab FileID: 6P25951.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\e6p1210\6p25951.D Vial: 15
Acq On : 13 May 2016 8:42 pm Operator: ariellec
Sample : icv1209-50 Inst : MS6P
Misc : op93693,e6p1210 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M6P1209.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuMon May 16 09:26:46 2016
Last Update : Mon May 16 09:26:46 2016
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	113	0.00	14.49
89 t	3,3'-Dichlorobenzidine	0.407	0.372	8.6	100	0.00	14.48

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6p25940a.D M6P1209.M Mon May 16 12:05:49 2016 ACLIMS

Initial Calibration Verification

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E6P1210-ICV1210
Lab FileID: 6P25952.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\e6p1210\6p25952.D          Vial: 16
Acq On    : 13 May 2016   9:09 pm                    Operator: ariellec
Sample    : icv1210-50                               Inst    : MS6P
Misc      : op93693,e6p1210                          Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M6P1209.M (RTE Integrator)
Title        : Semi Volatile  GC/MS,zb-5msi 30m x .25mm x .25MoTuMon May 16 09:26:46 2016
Last Update  : Mon May 16 09:26:46 2016
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.
	----------	AvgRF	CCRF	% Dev	----------		
112 I	Naphthalene-d8a	1.000	1.000	0.0	108	0.00	6.00
113 T	Hydroquinone	0.378	0.370	2.1	106	0.02	6.41

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6p25940a.D M6P1209.M Mon May 16 09:56:40 2016 ACLIMS

Initial Calibration Verification

Job Number: JC20098 **Sample:** E6P1211-ICV1209
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 6P25954.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\E6P1211\6p25954.D Vial: 2
Acq On : 16 May 2016 9:15 am Operator: ariellec
Sample : ICV1209-50 Inst : MS6P
Misc : op93693,e6p1211 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M6P1209.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuMon May 16 09:26:46 2016
Last Update : Mon May 16 09:26:46 2016
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	124	0.00	4.87
9	t	Phenol	2.140	1.823	14.8	109	0.03	4.61
12	t	2-Chlorophenol	1.551	1.410	9.1	117	0.02	4.71
19	t	2-Methylphenol	1.477	1.292	12.5	113	0.02	5.08
21	t	3&4-Methylphenol	1.558	1.364	12.5	111	0.03	5.21
24	I	Naphthalene-d8	1.000	1.000	0.0	109	0.00	6.00
29	t	2-Nitrophenol	0.197	0.187	5.1	108	0.01	5.63
30	t	2,4-Dimethylphenol	0.365	0.390	-6.8	121	0.02	5.67
		----------	True	Calc.	% Drift	----------		
31	t	Benzoic acid	50.000	53.582	-7.2	117	0.10	5.82
33	t	2,4-Dichlorophenol	0.281	0.278	1.1	114	0.02	5.86
34	t	2,6-Dichlorophenol	0.270	0.272	-0.7	116	0.01	6.08
43	t	4-Chloro-3-methylphenol	0.347	0.333	4.0	109	0.03	6.61
47	I	Acenaphthene-d10	1.000	1.000	0.0	107	0.00	8.11
49	t	2,4,6-Trichlorophenol	0.325	0.354	-8.9	119	0.02	7.12
50	t	2,4,5-Trichlorophenol	0.356	0.353	0.8	107	0.02	7.16
		----------	True	Calc.	% Drift	----------		
60	t	2,4-Dinitrophenol	100.000	46.925	6.15	88	0.02	8.22
		----------	AvgRF	CCRF	% Dev	----------		
61	t	4-Nitrophenol	0.205	0.225	-9.8	111	0.06	8.35
64		2,3,4,6-Tetrachlorophenol	0.253	0.277	-9.5	115	0.02	8.59
69	I	Phenanthrene-d10	1.000	1.000	0.0	107	0.00	10.30
70	t	4,6-Dinitro-2-methylpheno	50.000	47.679	4.6	102	0.02	8.99
76	t	Pentachlorophenol	0.127	0.064	-0.1	98	0.02	10.02

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6p25940a.D M6P1209.M Mon May 16 10:09:28 2016 ACLIMS

Initial Calibration Verification

Job Number: JC20098 **Sample:** E6P1211-ICV1209
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 6P25955.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\E6P1211\6p25955.D Vial: 3
Acq On : 16 May 2016 9:42 am Operator: ariellec
Sample : ICV1209-50 Inst : MS6P
Misc : op93693,e6p1211 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M6P1209.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuMon May 16 09:26:46 2016
Last Update : Mon May 16 09:26:46 2016
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	109	0.00	4.87
10		Aniline	2.427	1.985	18.2	99	0.03	4.64
16	t	Benzyl alcohol	1.060	1.002	5.5	106	0.03	5.00
24	I	Naphthalene-d8	1.000	1.000	0.0	105	0.00	6.00
39	t	4-Chloroaniline	0.460	0.381	17.2	94	0.02	6.08
44	t	2-Methylnaphthalene	0.606	0.581	4.1	108	0.00	6.77
47	I	Acenaphthene-d10	1.000	1.000	0.0	106	0.00	8.11
54	t	2-Nitroaniline	0.416	0.388	6.7	95	0.03	7.52
58	t	3-Nitroaniline	0.348	0.293	15.8	89	0.03	8.08
62	t	Dibenzofuran	1.605	1.594	0.7	113	0.00	8.40
68	t	4-Nitroaniline	0.365	0.300	17.8	90	0.04	8.96
69	I	Phenanthrene-d10	1.000	1.000	0.0	108	0.00	10.30
79	t	Carbazole	1.082	1.024	5.4	107	0.02	10.70

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6p25940a.D M6P1209.M Mon May 16 10:05:50 2016 ACLIMS

Initial Calibration Verification

Job Number: JC20098 **Sample:** E6P1212-ICV1209
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 6P25959.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\e6p1212\6p25959.D Vial: 2
Acq On : 16 May 2016 11:13 am Operator: ariellec
Sample : icv1209-50 Inst : MS6P
Misc : op93693,e6p1212 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M6P1209.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuMon May 16 09:26:46 2016
Last Update : Mon May 16 09:26:46 2016
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	-0.01	4.86
5	S	2-Fluorophenol	1.524	1.332	12.6	107	0.03	3.88
8	S	Phenol-d5	1.995	1.627	18.4	100	0.02	4.59
24	I	Naphthalene-d8	1.000	1.000	0.0	107	-0.01	5.99
25	S	Nitrobenzene-d5	0.446	0.404	9.4	102	0.00	5.32
47	I	Acenaphthene-d10	1.000	1.000	0.0	107	-0.01	8.10
51	S	2-Fluorobiphenyl	1.290	1.223	5.2	107	0.00	7.21
69	I	Phenanthrene-d10	1.000	1.000	0.0	107	-0.01	10.29
73	S	2,4,6-Tribromophenol	0.100	0.077	23.0	78	0.00	9.24
83	I	Chrysene-d12	1.000	1.000	0.0	98	-0.01	14.48
85	S	Terphenyl-d14	0.838	0.774	7.6	93	-0.01	12.85

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6p25940a.D M6P1209.M Mon May 16 11:37:08 2016 ACLIMS

Initial Calibration Verification

Job Number: JC20098 **Sample:** E6P1212-ICV1209
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 6P25960.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\e6p1212\6p25960.D Vial: 3
Acq On : 16 May 2016 11:40 am Operator: ariellec
Sample : icv1209-50 Inst : MS6P
Misc : op93693,e6p1212 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M6P1209.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuMon May 16 17:22:40 2016
Last Update : Mon May 16 17:22:40 2016
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	4.86
4	t	N-Nitrosodimethylamine	1.074	1.043	2.9	101	0.04	2.78
11	t	bis(2-Chloroethyl)ether	1.521	1.519	0.1	107	0.00	4.66
14	t	1,3-Dichlorobenzene	1.624	1.641	-1.0	109	0.00	4.82
15	t	1,4-Dichlorobenzene	1.646	1.658	-0.7	109	0.00	4.87
17	t	1,2-Dichlorobenzene	1.559	1.562	-0.2	110	0.00	5.00
20	t	2,2'-oxybis(1-Chloropropa	0.544	0.494	9.2	99	0.00	5.08
22	t	n-Nitroso-di-n-propylamin	1.339	1.203	10.2	99	0.01	5.20
23	t	Hexachloroethane	0.490	0.534	-9.0	116	0.00	5.28
24	I	Naphthalene-d8	1.000	1.000	0.0	94	0.00	5.99
26	t	Nitrobenzene	0.466	0.454	2.6	98	0.00	5.34
28	t	Isophorone	0.791	0.795	-0.5	102	0.03	5.57
32	t	bis(2-Chloroethoxy)methan	0.447	0.425	4.9	96	0.00	5.75
36	t	1,2,4-Trichlorobenzene	0.295	0.326	-10.5	109	-0.01	5.93
38	t	Naphthalene	1.128	1.136	-0.7	101	0.00	6.01
42	t	Hexachlorobutadiene	0.151	0.179	-18.5	119	-0.02	6.13
47	I	Acenaphthene-d10	1.000	1.000	0.0	93	-0.01	8.10
52	t	2-Chloronaphthalene	1.142	1.180	-3.3	103	0.00	7.36
55	t	Dimethylphthalate	1.332	1.351	-1.4	100	0.02	7.77
56	t	Acenaphthylene	1.914	1.877	1.9	95	0.00	7.91
57	t	2,6-Dinitrotoluene	0.273	0.296	-8.4	97	0.00	7.84
59	t	Acenaphthene	1.207	1.227	-1.7	100	0.00	8.15
63	t	2,4-Dinitrotoluene	0.367	0.377	-2.7	92	0.00	8.39
65	t	Diethylphthalate	1.356	1.361	-0.4	98	0.01	8.78
66	t	Fluorene	1.344	1.356	-0.9	98	0.00	8.89
67	t	4-Chlorophenyl-phenylethe	0.604	0.642	-6.3	107	-0.01	8.90
69	I	Phenanthrene-d10	1.000	1.000	0.0	92	-0.01	10.29
71	t	n-Nitrosodiphenylamine	0.559	0.589	-5.4	101	0.00	9.08
72	t	1,2-Diphenylhydrazine	1.005	0.954	5.1	91	0.00	9.14
74	t	4-Bromophenyl-phenylether	0.201	0.213	-6.0	101	0.00	9.63
75	t	Hexachlorobenzene	0.220	0.210	4.5	90	-0.01	9.69
77	t	Phenanthrene	1.160	1.174	-1.2	98	0.00	10.33
78	t	Anthracene	1.149	1.162	-1.1	97	0.00	10.41
80	t	Di-n-butylphthalate	1.361	1.375	-1.0	95	0.00	11.32
81	t	Fluoranthene	1.232	1.231	0.1	97	-0.01	12.19
83	I	Chrysene-d12	1.000	1.000	0.0	81	0.00	14.49
84	t	Pyrene	1.357	1.551	-14.3	97	0.00	12.54
86	t	Butylbenzylphthalate	0.598	0.691	-15.6	91	0.00	13.70
88	t	Benzo[a]anthracene	1.188	1.293	-8.8	93	0.00	14.47

Initial Calibration Verification

Job Number: JC20098 **Sample:** E6P1212-ICV1209
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 6P25960.D
Project: BMSMC, Building 5 Area, PR

90	t	Chrysene	1.151	1.249	-8.5	92	0.00	14.52
		----------	True	Calc.	% Drift	----------		
91	t	bis(2-Ethylhexyl)phthalat	50.000	55.643	-11.3	91	0.00	14.66
		----------	AvgRF	CCRF	% Dev	----------		
92	I	Perylene-d12	1.000	1.000	0.0	78	-0.01	16.59
		----------	True	Calc.	% Drift	----------		
93	t	Di-n-octylphthalate	50.000	55.659	-11.3	88	0.00	15.65
		----------	AvgRF	CCRF	% Dev	----------		
94	t	Benzo[b]fluoranthene	1.265	1.307	-3.3	81	0.00	16.07
95	t	Benzo[k]fluoranthene	1.223	1.347	-10.1	90	-0.04	16.12
96	t	Benzo[a]pyrene	1.081	1.256	-16.2	89	0.00	16.52
97	t	Indeno[1,2,3-cd]pyrene	1.099	1.257	-14.4	82	-0.04	18.00
99	t	Dibenz[a,h]anthracene	1.189	1.266	-6.5	80	0.00	18.04
101	t	Benzo[g,h,i]perylene	1.191	1.257	-5.5	80	0.00	18.38

(#) = Out of Range SPCC's out = 0 CCC's out = 0

6p25940a.D M6P1209.M Mon May 16 17:26:53 2016 ACLIMS

Initial Calibration Verification

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E6P1212-ICV1210
Lab FileID: 6P25960A.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\e6p1212\6p25960A.D Vial: 3
Acq On : 16 May 2016 11:40 am Operator: ariellec
Sample : icv1210-50 Inst : MS6P
Misc : op93693,e6p1212 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M6P1209.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuMon May 16 09:26:46 2016
Last Update : Mon May 16 09:26:46 2016
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	107	-0.01	8.10
105	1,2,4,5-Tetrachlorobenzen	0.496	0.605	-22.0	135	0.00	6.96
110 I	Chrysene-d12a	1.000	1.000	0.0	100	0.00	14.49
	----------	True	Calc.	% Drift	----------		
111 T	benzidine	50.000	36.011	27.9	77	0.02	12.47

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6p25940a.D M6P1209.M Mon May 16 12:11:46 2016 ACLIMS

Continuing Calibration Summary

Job Number: JC20098 **Sample:** E6P1227-CC1209
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 6P26346.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\e6p1227\6p26346.D Vial: 2
Acq On : 25 May 2016 9:16 am Operator: ariellec
Sample : cc1209-25 Inst : MS6P
Misc : op94071,e6p1227 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M6P1209.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed May 25 12:15:14 2016
Last Update : Wed May 25 12:15:14 2016
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	127	0.00	4.79
2	t	1,4-Dioxane	0.710	0.602	15.2	114	-0.05	2.36
3	t	Pyridine	1.798	1.507	16.2	110	-0.03	2.69
4	t	N-Nitrosodimethylamine	1.074	0.902	16.0	108	-0.04	2.65
5	S	2-Fluorophenol	1.524	1.350	11.4	116	0.02	3.81
6	t	Indene	2.721	2.663	2.1	126	0.00	4.99
7	t	Cumene	3.861	3.719	3.7	124	-0.01	4.18
8	S	Phenol-d5	1.995	1.846	7.5	120	0.02	4.53
9	t	Phenol	2.140	2.078	2.9	126	0.00	4.54
10		Aniline	2.427	1.897	21.8#	108	0.02	4.54
11	t	bis(2-Chloroethyl)ether	1.521	1.406	7.6	120	0.02	4.58
12	t	2-Chlorophenol	1.551	1.478	4.7	123	0.01	4.63
13	t	Decane	1.990	1.771	11.0	118	0.00	4.65
14	t	1,3-Dichlorobenzene	1.624	1.553	4.4	124	0.00	4.75
15	t	1,4-Dichlorobenzene	1.646	1.586	3.6	126	0.00	4.80
16	t	Benzyl alcohol	1.060	0.979	7.6	120	0.02	4.91
17	t	1,2-Dichlorobenzene	1.559	1.487	4.6	127	0.00	4.92
18	t	Acetophenone	2.246	2.133	5.0	125	0.01	5.11
19	t	2-Methylphenol	1.477	1.375	6.9	122	0.03	5.00
20	t	2,2'-oxybis(1-Chloropropa	0.544	0.528	2.9	127	0.00	5.00
21	t	3&4-Methylphenol	1.558	1.488	4.5	124	0.04	5.12
22	t	n-Nitroso-di-n-propylamin	1.339	1.274	4.9	126	0.00	5.11
23	t	Hexachloroethane	0.490	0.463	5.5	123	0.00	5.20
24	I	Naphthalene-d8	1.000	1.000	0.0	126	0.00	5.91
25	S	Nitrobenzene-d5	0.446	0.414	7.2	120	0.00	5.24
26	t	Nitrobenzene	0.466	0.431	7.5	119	0.00	5.26
27	t	Quinoline	0.746	0.714	4.3	124	0.01	6.28
28	t	Isophorone	0.791	0.736	7.0	121	0.00	5.47
29	t	2-Nitrophenol	0.197	0.202	-2.5	130	0.00	5.54
30	t	2,4-Dimethylphenol	0.365	0.329	9.9	118	0.02	5.58
		----------	True	Calc.	% Drift	----------		
31	t	Benzoic acid	25.000	32.141	-28.6#	172	0.08	5.70
		----------	AvgRF	CCRF	% Dev	----------		
32	t	bis(2-Chloroethoxy)methan	0.447	0.416	6.9	122	0.00	5.66
33	t	2,4-Dichlorophenol	0.281	0.268	4.6	125	0.00	5.78
34	t	2,6-Dichlorophenol	0.270	0.267	1.1	126	0.02	6.00
35		1,3,5-Trichlorobenzene	0.308	0.294	4.5	123	0.00	5.55
36	t	1,2,4-Trichlorobenzene	0.295	0.282	4.4	123	0.00	5.85
37		1,2,3-Trichlorobenzene	0.290	0.278	4.1	123	0.00	6.07

Continuing Calibration Summary

Job Number: JC20098 **Sample:** E6P1227-CC1209
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 6P26346.D
Project: BMSMC, Building 5 Area, PR

38	t	Naphthalene	1.128	1.091	3.3	126	0.03	5.93
39	t	4-Chloroaniline	0.460	0.417	9.3	117	0.01	5.99
40	t	2,3-Dichloroaniline	0.348	0.344	1.1	126	0.02	7.02
41	t	Caprolactam	0.189	0.179	5.3	119	0.04	6.37
42	t	Hexachlorobutadiene	0.151	0.145	4.0	122	0.00	6.04
43	t	4-Chloro-3-methylphenol	0.347	0.346	0.3	127	0.05	6.53
44	t	2-Methylnaphthalene	0.606	0.598	1.3	127	0.00	6.67
45	t	1-Methylnaphthalene	0.622	0.623	-0.2	128	0.00	6.79
46	t	Dimethylnaphthalene	0.635	0.630	0.8	126	0.00	7.44
47	I	Acenaphthene-d10	1.000	1.000	0.0	126	0.00	8.00
48	t	Hexachlorocyclopentadiene	0.280	0.204	27.1#	89	-0.02	6.85
49	t	2,4,6-Trichlorophenol	0.325	0.330	-1.5	128	0.02	7.02
50	t	2,4,5-Trichlorophenol	0.356	0.351	1.4	126	-0.01	7.08
51	S	2-Fluorobiphenyl	1.290	1.256	2.6	127	0.00	7.11
52	t	2-Chloronaphthalene	1.142	1.084	5.1	124	0.00	7.26
53	t	Biphenyl	1.534	1.509	1.6	128	0.00	7.24
54	t	2-Nitroaniline	0.416	0.457	-9.9	133	0.02	7.41
55	t	Dimethylphthalate	1.332	1.267	4.9	124	0.00	7.65
56	t	Acenaphthylene	1.914	1.899	0.8	127	0.00	7.81
57	t	2,6-Dinitrotoluene	0.273	0.299	-9.5	134	0.01	7.74
58	t	3-Nitroaniline	0.348	0.343	1.4	121	0.03	7.97
59	t	Acenaphthene	1.207	1.193	1.2	129	0.00	8.05
		----------	True	Calc.	% Drift	----------		
60	t	2,4-Dinitrophenol	50.000	56.524	-13.0	150	0.04	8.13
		----------	AvgRF	CCRF	% Dev	----------		
61	t	4-Nitrophenol	0.205	0.182	11.2	109	0.06	8.26
62	t	Dibenzofuran	1.605	1.582	1.4	129	0.00	8.29
63	t	2,4-Dinitrotoluene	0.367	0.411	-12.0	133	0.03	8.30
64		2,3,4,6-Tetrachlorophenol	0.253	0.264	-4.3	134	0.03	8.48
65	t	Diethylphthalate	1.356	1.318	2.8	125	0.00	8.66
66	t	Fluorene	1.344	1.350	-0.4	129	0.00	8.78
67	t	4-Chlorophenyl-phenylethe	0.604	0.582	3.6	126	0.00	8.80
68	t	4-Nitroaniline	0.365	0.342	6.3	120	0.05	8.85
69	I	Phenanthrene-d10	1.000	1.000	0.0	126	0.00	10.20
		----------	True	Calc.	% Drift	----------		
70	t	4,6-Dinitro-2-methylpheno	25.000	29.608	-18.4	154	0.02	8.89
		----------	AvgRF	CCRF	% Dev	----------		
71	t	n-Nitrosodiphenylamine	0.559	0.561	-0.4	129	0.00	8.98
72	t	1,2-Diphenylhydrazine	1.005	0.926	7.9	118	-0.01	9.03
73	S	2,4,6-Tribromophenol	0.100	0.085	15.0	107	0.02	9.14
74	t	4-Bromophenyl-phenylether	0.201	0.190	5.5	121	-0.01	9.53
75	t	Hexachlorobenzene	0.220	0.190	13.6	111	0.00	9.59
76	t	Pentachlorophenol	0.127	0.112	11.8	111	0.02	9.92
77	t	Phenanthrene	1.160	1.132	2.4	127	0.00	10.23
78	t	Anthracene	1.149	1.158	-0.8	130	0.00	10.31
79	t	Carbazole	1.082	1.065	1.6	127	0.01	10.59
80	t	Di-n-butylphthalate	1.361	1.368	-0.5	127	0.00	11.20
81	t	Fluoranthene	1.232	1.206	2.1	127	0.00	12.09
82	t	Octadecane	0.598	0.622	-4.0	128	-0.02	10.11
83	I	Chrysene-d12	1.000	1.000	0.0	119	0.00	14.39
84	t	Pyrene	1.357	1.400	-3.2	126	0.00	12.44
85	S	Terphenyl-d14	0.838	0.838	0.0	121	-0.01	12.75
86	t	Butylbenzylphthalate	0.598	0.695	-16.2	137	-0.02	13.58

Continuing Calibration Summary

Job Number: JC20098 **Sample:** E6P1227-CC1209
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 6P26346.D
Project: BMSMC, Building 5 Area, PR

87		Butyl stearate	0.427	0.510	-19.4	138	0.02	13.74
88	t	Benzo[a]anthracene	1.188	1.194	-0.5	125	0.00	14.37
89	t	3,3'-Dichlorobenzidine	0.407	0.429	-5.4	123	0.00	14.38
90	t	Chrysene	1.151	1.154	-0.3	123	0.00	14.43
		----------	True	Calc.	% Drift	----------		
91	t	bis(2-Ethylhexyl)phthalat	25.000	28.385	-13.5	138	0.00	14.53
		----------	AvgRF	CCRF	% Dev	----------		
92	I	Perylene-d12	1.000	1.000	0.0	106	0.00	16.51
		----------	True	Calc.	% Drift	----------		
93	t	Di-n-octylphthalate	25.000	32.006	-28.0#	147	0.00	15.52
		----------	AvgRF	CCRF	% Dev	----------		
94	t	Benzo[b]fluoranthene	1.265	1.328	-5.0	114	0.00	15.98
95	t	Benzo[k]fluoranthene	1.223	1.252	-2.4	110	-0.04	16.02
96	t	Benzo[a]pyrene	1.081	1.154	-6.8	114	-0.02	16.42
97	t	Indeno[1,2,3-cd]pyrene	1.099	1.155	-5.1	110	0.00	17.89
98	t	Dibenz(a,h)acridine	0.984	0.982	0.2	101	0.00	17.59
99	t	Dibenz[a,h]anthracene	1.189	1.152	3.1	101	-0.01	17.92
100	t	7,12-Dimethylbenz(a)anthr	0.528	0.523	0.9	102	0.00	15.98
101	t	Benzo[g,h,i]perylene	1.191	1.124	5.6	99	0.00	18.27

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6p25941a.D M6P1209.M Wed May 25 13:20:03 2016 ACLIMS

6.7.47

6

Continuing Calibration Summary

Job Number: JC20098 **Sample:** E6P1227-CC1210
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 6P26347.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\e6p1227\6p26347.D          Vial: 3
Acq On    : 25 May 2016   9:51 am                    Operator: ariellec
Sample    : cc1210-25                                Inst    : MS6P
Misc      : op94071,e6p1227                          Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M6P1209.M (RTE Integrator)
Title        : Semi Volatile  GC/MS,zb-5msi 30m x .25mm x .25MoTuWed May 25 12:15:14 2016
Last Update  : Wed May 25 12:15:14 2016
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		1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	130	0.00	4.79
103		Benzaldehyde	1.205	1.169	3.0	129	0.00	4.46
104		Acenaphthene-d10a	1.000	1.000	0.0	134	0.00	8.00
105		1,2,4,5-Tetrachlorobenzen	0.496	0.465	6.2	131	0.00	6.87
106		Phenanthrene-d10a	1.000	1.000	0.0	137	0.00	10.19
107		Atrazine	0.100	0.109	-9.0	149	0.00	9.83
108	s	o-Terphenyl	0.552	0.517	6.3	132	0.00	10.82
109	s	1-Chlorooctadecane	0.368	0.402	-9.2	143	0.00	12.01
110	I	Chrysene-d12a	1.000	1.000	0.0	140	0.00	14.38
		----------	True	Calc.	% Drift	----------		
111	T	benzidine	25.000	32.742	-31.0#	220	-0.01	12.36
		----------	AvgRF	CCRF	% Dev	----------		
112	I	Naphthalene-d8a	1.000	1.000	0.0	130	0.00	5.91
113	T	Hydroquinone	0.378	0.381	-0.8	129	0.06	6.36

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6p25941a.D M6P1209.M Wed May 25 12:19:38 2016 ACLIMS

Initial Calibration Summary

Job Number: JC20098 **Sample:** EF6563-ICC6563
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F156053.D
Project: BMSMC, Building 5 Area, PR

Response Factor Report MSF

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Apr 06 08:33:31 2016
Response via : Initial Calibration

Calibration Files
2 =F156057.D 5 =F156056.D 25 =F156054.D 80 =F156052.D
100 =F156051.D 50 =F156053.D 10 =F156055.D 1 =F156058.D

Compound	2	5	25	80	100	50	10	1	Avg	%RSD
1) I 1,4-Dichlorobenzene-d					ISTD					
2) 1,4-Dioxane	0.435	0.754	0.557	0.575	0.554	0.612	0.690	0.779	0.619	18.58
3) Pyridine	1.365	1.512	1.488	1.487	1.463	1.471	1.542	1.345	1.459	4.72
4) N-Nitrosodim	0.543	0.544	0.495	0.517	0.510	0.518	0.499	0.573	0.525	5.05
5) 2-Fluorophen	1.468	1.471	1.393	1.349	1.313	1.386	1.406	1.467	1.407	4.18
6) Indene	2.666	2.624	2.377	2.021	1.886	2.207	2.519	2.639	2.367	12.66
7) Cumene	3.433	3.411	3.202	2.915	2.701	3.053	3.298	3.427	3.180	8.47
8) Phenol-d5	1.803	1.781	1.689	1.611	1.551	1.667	1.761	1.822	1.711	5.68
9) Phenol	1.900	1.860	1.778	1.806	1.715	1.740	1.819	1.950	1.821	4.36
10) Aniline	2.277	2.212	1.926	1.735	1.611	1.803	2.109	2.271	1.993	13.03
11) bis(2-Chloro	1.382	1.395	1.284	1.231	1.184	1.273	1.336	1.395	1.310	6.07
12) 2-Chlorophen	1.593	1.585	1.471	1.360	1.308	1.430	1.522	1.612	1.485	7.60
13) Decane	1.432	1.362	1.270	1.113	1.067	1.177	1.318	1.482	1.278	11.67
14) 1,3-Dichloro	1.778	1.750	1.645	1.489	1.422	1.574	1.731	1.787	1.647	8.44
15) 1,4-Dichloro	1.757	1.794	1.643	1.495	1.421	1.564	1.736	1.736	1.643	8.31
16) Benzyl alcoh	1.001	0.995	0.930	0.879	0.857	0.917	0.984	1.012	0.947	6.30
17) 1,2-Dichloro	1.685	1.678	1.556	1.352	1.294	1.465	1.623	1.707	1.545	10.27
18) Acetophenone	2.011	2.022	1.799	1.511	1.427	1.643	1.941	1.967	1.790	13.16
19) 2-Methylphen	1.341	1.350	1.271	1.169	1.116	1.238	1.323	1.368	1.272	7.19
20) 2,2'-oxybis(	0.519	0.515	0.457	0.414	0.397	0.444	0.476	0.558	0.472	11.71
21) 3&4-Methylph	1.394	1.437	1.313	1.146	1.075	1.236	1.397	1.437	1.304	10.61
22) n-Nitroso-di	1.093	1.062	0.939	0.859	0.831	0.894	1.003	1.050	0.966	10.31
23) Hexachloroet	0.542	0.548	0.505	0.467	0.445	0.489	0.516	0.560	0.509	8.00
24) I Naphthalene-d8					ISTD					
25) Nitrobenzene	0.382	0.394	0.374	0.357	0.348	0.373	0.387	0.374	0.374	4.05
26) Nitrobenzene	0.398	0.419	0.397	0.372	0.356	0.390	0.411	0.388	0.391	5.14
27) Quinoline	0.814	0.815	0.776	0.728	0.694	0.750	0.806	0.802	0.773	5.81
28) Isophorone	0.695	0.714	0.677	0.616	0.588	0.648	0.701	0.705	0.668	6.90
29) 2-Nitropheno	0.205	0.219	0.210	0.186	0.177	0.200	0.217	0.210	0.203	7.26
30) 2,4-Dimethyl	0.317	0.325	0.320	0.323	0.312	0.330	0.322	0.308	0.320	2.22
31) Benzoic acid	0.238	0.266	0.282	0.304	0.269	0.296	0.273	0.211	0.267	11.38
32) bis(2-Chloro	0.458	0.456	0.418	0.381	0.364	0.400	0.440	0.452	0.421	8.62
33) 2,4-Dichloro	0.337	0.338	0.325	0.295	0.280	0.311	0.337	0.332	0.319	6.90
34) 2,6-Dichloro	0.337	0.336	0.309	0.264	0.247	0.286	0.328	0.345	0.307	12.01
35) 1,3,5-Trichl	0.373	0.382	0.340	0.279	0.265	0.311	0.362	0.377	0.336	13.70
36) 1,2,4-Trichl	0.357	0.355	0.333	0.295	0.277	0.318	0.349	0.356	0.330	9.34
37) 1,2,3-Trichl	0.361	0.353	0.324	0.286	0.270	0.313	0.338	0.361	0.326	10.48
38) Naphthalene	1.244	1.223	1.108	0.902	0.815	1.014	1.196	1.235	1.092	15.11
39) 4-Chloroanil	0.503	0.506	0.454	0.380	0.354	0.414	0.497	0.500	0.451	13.52
40) 2,3-Dichloro	0.426	0.411	0.376	0.304	0.284	0.332	0.413	0.430	0.372	15.57
41) Caprolactam	0.152	0.150	0.152	0.151	0.144	0.151	0.155	0.158	0.152	2.70
42) Hexachlorobu	0.178	0.165	0.160	0.137	0.128	0.148	0.167	0.167	0.156	11.01
43) 4-Chloro-3-m	0.317	0.341	0.316	0.299	0.283	0.309	0.328	0.314	0.313	5.66
44) 2-Methylnaph	0.684	0.678	0.621	0.539	0.508	0.582	0.663	0.653	0.616	10.80
45) 1-Methylnaph	0.696	0.700	0.639	0.552	0.524	0.602	0.680	0.679	0.634	10.71

Initial Calibration Summary

Job Number: JC20098 **Sample:** EF6563-ICC6563
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F156053.D
Project: BMSMC, Building 5 Area, PR

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46) Dimethylnaph 0.704 0.711 0.655 0.561 0.526 0.611 0.686 0.685 0.642  10.79

47) I   Acenaphthene-d10      ----------------ISTD---------------------
48) Hexachlorocy 0.282 0.297 0.293 0.246 0.228 0.268 0.299 0.260 0.271   9.49
49) 2,4,6-Trichl 0.393 0.378 0.339 0.281 0.259 0.313 0.371 0.382 0.339  14.82
50) 2,4,5-Trichl 0.398 0.405 0.378 0.353 0.334 0.357 0.384 0.381 0.374   6.38
51) 2-Fluorobiph 1.441 1.396 1.288 1.112 1.046 1.185 1.361 1.384 1.277  11.40
52) 2-Chloronaph 1.266 1.268 1.154 1.024 0.963 1.087 1.227 1.257 1.156  10.30
53) Biphenyl     1.656 1.637 1.515 1.274 1.190 1.381 1.585 1.636 1.484  12.18
54) 2-Nitroanili 0.328 0.346 0.335 0.331 0.317 0.334 0.340 0.289 0.328   5.41
55) Dimethylphth 1.390 1.383 1.309 1.191 1.117 1.234 1.355 1.370 1.293   7.86
56) Acenaphthyle 2.072 2.049 1.907 1.660 1.516 1.758 1.992 2.035 1.874  11.02
57) 2,6-Dinitrot 0.260 0.292 0.287 0.279 0.266 0.287 0.292 0.274 0.280   4.29
58) 3-Nitroanili 0.350 0.364 0.367 0.349 0.334 0.354 0.368 0.315 0.350   5.16
59) Acenaphthene 1.304 1.315 1.193 1.026 0.962 1.091 1.233 1.290 1.177  11.47
60) 2,4-Dinitrop 0.079 0.109 0.154 0.169 0.164 0.164 0.132 0.056 0.129  33.34
         ----- Quadratic regression -----                Coefficient =  0.9994
              Response Ratio = -0.01316 + 0.17125 *A + -0.00057 *A^2

61) 4-Nitropheno 0.152 0.164 0.172 0.176 0.169 0.169 0.163 0.151 0.164   5.39
62) Dibenzofuran 1.767 1.778 1.615 1.414 1.331 1.493 1.707 1.742 1.606  10.77
63) 2,4-Dinitrot 0.372 0.398 0.402 0.385 0.368 0.389 0.395 0.322 0.379   6.84
64) 2,3,4,6-Tetr 0.290 0.297 0.291 0.273 0.255 0.279 0.294 0.275 0.282   4.99
65) Diethylphtha 1.365 1.347 1.288 1.180 1.123 1.236 1.314 1.374 1.278   7.15
66) Fluorene     1.404 1.425 1.247 1.024 0.952 1.101 1.348 1.385 1.236  15.07
67) 4-Chlorophen 0.658 0.618 0.540 0.437 0.407 0.477 0.592 0.629 0.545  17.38
68) 4-Nitroanili 0.354 0.373 0.358 0.353 0.338 0.349 0.372 0.332 0.353   4.12

69) I   Phenanthrene-d10      ----------------ISTD---------------------
70) 4,6-Dinitro-       0.100 0.130 0.139 0.135 0.139 0.115       0.126  12.21
71) n-Nitrosodip 0.603 0.630 0.578 0.523 0.491 0.550 0.597 0.609 0.572   8.30
72) 1,2-Diphenyl 0.825 0.848 0.798 0.745 0.715 0.774 0.823 0.802 0.791   5.61
73) 2,4,6-Tribro 0.086 0.085 0.083 0.079 0.076 0.084 0.084 0.077 0.082   4.52
74) 4-Bromopheny 0.210 0.211 0.197 0.176 0.164 0.183 0.199 0.200 0.192   8.62
75) Hexachlorobe 0.198 0.203 0.182 0.167 0.157 0.176 0.192 0.194 0.184   8.80
76) Pentachlorop 0.123 0.132 0.133 0.115 0.108 0.123 0.129 0.105 0.121   8.73
77) Phenanthrene 1.263 1.260 1.159 1.018 0.949 1.069 1.225 1.264 1.151  10.79
78) Anthracene   1.250 1.272 1.164 1.030 0.963 1.096 1.211 1.229 1.152   9.69
79) Carbazole    1.162 1.163 1.109 0.982 0.930 1.024 1.142 1.127 1.080   8.25
80) Di-n-butylph 1.378 1.461 1.400 1.262 1.170 1.324 1.413 1.382 1.349   6.94
81) Fluoranthene 1.200 1.228 1.163 1.058 1.000 1.105 1.185 1.191 1.141   6.94
82) Octadecane   0.485 0.512 0.484 0.425 0.409 0.456 0.499 0.476 0.468   7.66

83) I   Chrysene-d12          ----------------ISTD---------------------
84) Pyrene       1.431 1.461 1.433 1.397 1.341 1.430 1.429 1.425 1.419   2.52
85) Terphenyl-d1 0.821 0.833 0.822 0.805 0.769 0.825 0.818 0.806 0.812   2.43
86) Butylbenzylp 0.660 0.694 0.706 0.733 0.705 0.726 0.684 0.665 0.697   3.81
87) Butyl steara 0.340 0.377 0.394 0.398 0.386 0.410 0.382 0.334 0.378   7.18
88) Benzo[a]anth 1.264 1.198 1.198 1.204 1.158 1.210 1.186 1.274 1.212   3.22
89) 3,3'-Dichlor 0.414 0.432 0.427 0.442 0.426 0.430 0.428 0.377 0.422   4.64
90) Chrysene     1.228 1.241 1.201 1.193 1.137 1.202 1.208 1.224 1.204   2.62
91) bis(2-Ethylh 0.915 0.943 0.999 1.006 0.983 1.020 0.962 0.896 0.966   4.60

92) I   Perylene-d12          ----------------ISTD---------------------
93) Di-n-octylph 1.708 1.820 1.853 1.727 1.647 1.823 1.823 1.621 1.753   5.09
94) Benzo[b]fluo 1.257 1.309 1.254 1.168 1.101 1.210 1.289 1.300 1.236   5.84
95) Benzo[k]fluo 1.257 1.247 1.241 1.125 1.084 1.186 1.265 1.275 1.210   5.89
96) Benzo[a]pyre 1.158 1.179 1.152 1.082 1.030 1.124 1.150 1.175 1.132   4.55
97) Indeno[1,2,3 1.063 1.065 1.077 1.016 0.969 1.047 1.071 1.045 1.044   3.43
98) Dibenz(a,h)a 0.885 0.929 0.931 0.877 0.838 0.901 0.930 0.883 0.897   3.65
```

Initial Calibration Summary

Job Number: JC20098 **Sample:** EF6563-ICC6563
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F156053.D
Project: BMSMC, Building 5 Area, PR

```
 99) Dibenz[a,h]a 1.026 1.044 1.043 1.012 0.945 1.014 1.061 0.937 1.010   4.54
100) 7,12-Dimethy 0.460 0.490 0.528 0.499 0.469 0.519 0.495 0.401 0.483   8.27
101) Benzo[g,h,i] 1.148 1.180 1.162 1.086 1.015 1.104 1.164 1.169 1.128   5.00
 ---------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

          MF6563.M          Wed Apr 06 08:34:20 2016   RT1
```

Initial Calibration Summary

Job Number: JC20098 **Sample:** EF6564-ICC6564
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F156062.D
Project: BMSMC, Building 5 Area, PR

Response Factor Report MSF

Method : C:\MSDCHEM\1\METHODS\MF6564.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Apr 06 08:33:31 2016
Response via : Initial Calibration

Calibration Files
2 =F156066.D 5 =F156065.D 25 =F156063.D 80 =F156061.D
100 =F156060.D 50 =F156062.D 10 =F156064.D 1 =F156067.D

Compound	2	5	25	80	100	50	10	1	Avg	%RSD
159) I 1,4-Dichlorobenzene-d	ISTD									
160) Benzaldehyde	1.314	1.266	1.115	0.952	0.817	1.052	1.157	1.340	1.126	16.20
161) I Naphthalene-d8b	ISTD									
162) Hydroquinone	0.268	0.329	0.362	0.349	0.321	0.376	0.354	0.252	0.326	13.67
163) Acenaphthene-d10b	ISTD									
164) 1,2,4,5-Tetr	0.648	0.642	0.534	0.466	0.440	0.496	0.569	0.657	0.557	15.50
165) Phenanthrene-d10b	ISTD									
166) Atrazine	0.203	0.217	0.192	0.178	0.168	0.186	0.193	0.200	0.192	7.94
167) Chrysene-d12b	ISTD									
168) Benzidine	0.740	0.852	0.774	0.574	0.440	0.740	0.776	0.664	0.695	19.00

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

MF6563.M Wed Apr 06 09:12:35 2016 RT1

Initial Calibration Verification

Job Number: JC20098 **Sample:** EF6564-ICV6563
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F156069.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EF6564\F156069.D          Vial: 11
Acq On    :  5 Apr 2016   3:46 am                   Operator: sarad
Sample    : icv6563-50                              Inst    : MSF
Misc      : op92661,ef6564,100                      Multiplr: 1.00
MS Integration Params: LSCINT.P

Method       : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Wed Apr 06 08:33:31 2016
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	4.88
3	t	Pyridine	1.459	1.468	-0.6	99	0.07	2.86
10	t	Aniline	1.993	2.110	-5.9	116	0.00	4.64
16	t	Benzyl alcohol	0.947	0.920	2.9	99	0.00	4.98
24	I	Naphthalene-d8	1.000	1.000	0.0	106	0.00	5.80
39	t	4-Chloroaniline	0.451	0.416	7.8	106	0.00	5.85
44	t	2-Methylnaphthalene	0.616	0.531	13.8	96	0.00	6.33
47	I	Acenaphthene-d10	1.000	1.000	0.0	103	0.00	7.27
54	t	2-Nitroaniline	0.328	0.291	11.3	90	0.00	6.82
58	t	3-Nitroaniline	0.350	0.305	12.9	89	0.00	7.21
62	t	Dibenzofuran	1.606	1.408	12.3	97	0.00	7.49
68	t	4-Nitroaniline	0.353	0.292	17.3	86	-0.01	7.90
69	I	Phenanthrene-d10	1.000	1.000	0.0	99	-0.01	9.21
79	t	Carbazole	1.080	0.973	9.9	94	0.00	9.61

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F156062A.D MF6563.M Wed Apr 06 08:50:50 2016 RT1

Initial Calibration Verification

Job Number: JC20098 **Sample:** EF6564-ICV6563
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F156070.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\EF6564\F156070.D Vial: 12
Acq On : 5 Apr 2016 4:15 am Operator: sarad
Sample : icv6563-50 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Apr 06 08:33:31 2016
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	102	0.00	4.88
5	S	2-Fluorophenol	1.407	1.228	12.7	90	0.00	3.89
8	S	Phenol-d5	1.711	1.474	13.9	90	0.00	4.60
24	I	Naphthalene-d8	1.000	1.000	0.0	101	0.00	5.80
25	S	Nitrobenzene-d5	0.374	0.331	11.5	89	0.00	5.28
47	I	Acenaphthene-d10	1.000	1.000	0.0	97	0.00	7.27
51	S	2-Fluorobiphenyl	1.277	1.106	13.4	90	0.00	6.63
69	I	Phenanthrene-d10	1.000	1.000	0.0	91	-0.01	9.21
73	S	2,4,6-Tribromophenol	0.082	0.072	12.2	78	-0.01	8.19
83	I	Chrysene-d12	1.000	1.000	0.0	95	-0.02	14.53
85	S	Terphenyl-d14	0.812	0.700	13.8	80	0.00	12.30

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F156062A.D MF6563.M Wed Apr 06 08:50:51 2016 RT1

Initial Calibration Verification

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: EF6564-ICV6564
Lab FileID: F156071A.D

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EF6564\F156071A.D          Vial: 13
Acq On    :  5 Apr 2016   4:44 am                    Operator: sarad
Sample    : icv6564-50                               Inst    : MSF
Misc      : op92661,ef6564,100                       Multiplr: 1.00
MS Integration Params: LSCINT.P

Method       : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Wed Apr 06 08:33:31 2016
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	103	0.00	7.27
164	1,2,4,5-Tetrachlorobenzen	0.557	0.496	11.0	103	0.00	6.46

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F156062A.D MF6563.M Thu Apr 07 09:55:38 2016 RT1

Initial Calibration Verification

Job Number: JC20098 **Sample:** EF6564-ICV6563
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F156071.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\EF6564\F156071.D Vial: 13
Acq On : 5 Apr 2016 4:44 am Operator: sarad
Sample : icv6563-50 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Apr 06 08:33:31 2016
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	91	0.00	4.88
4	t	N-Nitrosodimethylamine	0.525	0.491	6.5	86	0.00	2.76
11	t	bis(2-Chloroethyl)ether	1.310	1.262	3.7	90	0.00	4.68
14	t	1,3-Dichlorobenzene	1.647	1.531	7.0	88	0.00	4.84
15	t	1,4-Dichlorobenzene	1.643	1.547	5.8	90	0.00	4.89
17	t	1,2-Dichlorobenzene	1.545	1.468	5.0	91	0.00	5.00
20	t	2,2'-oxybis(1-Chloropropa	0.472	0.407	13.8	83	0.00	5.08
22		n-Nitroso-di-n-propylamin	0.966	0.892	7.7	91	0.00	5.17
23	t	Hexachloroethane	0.509	0.474	6.9	88	0.00	5.25
24	I	Naphthalene-d8	1.000	1.000	0.0	91	0.00	5.80
26	t	Nitrobenzene	0.391	0.361	7.7	84	0.00	5.29
28	t	Isophorone	0.668	0.657	1.6	92	-0.01	5.46
32	t	bis(2-Chloroethoxy)methan	0.421	0.383	9.0	87	0.00	5.62
36	t	1,2,4-Trichlorobenzene	0.330	0.300	9.1	86	0.00	5.76
38	t	Naphthalene	1.092	1.031	5.6	92	0.00	5.82
42	t	Hexachlorobutadiene	0.156	0.146	6.4	89	0.00	5.90
47	I	Acenaphthene-d10	1.000	1.000	0.0	85	0.00	7.27
52	t	2-Chloronaphthalene	1.156	1.074	7.1	84	0.00	6.74
55	t	Dimethylphthalate	1.293	1.139	11.9	78	0.00	6.98
56	t	Acenaphthylene	1.874	1.715	8.5	83	0.00	7.13
57	t	2,6-Dinitrotoluene	0.280	0.250	10.7	74	0.00	7.05
59	t	Acenaphthene	1.177	1.104	6.2	86	0.00	7.30
63	t	2,4-Dinitrotoluene	0.379	0.317	16.4	69	0.00	7.46
65	t	Diethylphthalate	1.278	1.093	14.5	75	-0.01	7.74
66	t	Fluorene	1.236	1.107	10.4	85	0.00	7.89
67	t	4-Chlorophenyl-phenylethe	0.545	0.466	14.5	83	0.00	7.89
69	I	Phenanthrene-d10	1.000	1.000	0.0	80	0.00	9.21
71	t	n-Nitrosodiphenylamine	0.572	0.506	11.5	74	0.00	8.03
72	t	1,2-Diphenylhydrazine	0.791	0.781	1.3	81	0.00	8.08
74	t	4-Bromophenyl-phenylether	0.192	0.180	6.3	79	0.00	8.54
75	t	Hexachlorobenzene	0.184	0.176	4.3	80	0.00	8.62
77	t	Phenanthrene	1.151	1.081	6.1	81	0.00	9.25
78	t	Anthracene	1.152	1.079	6.3	79	-0.01	9.33
80	t	Di-n-butylphthalate	1.349	1.228	9.0	74	0.00	10.32
81	t	Fluoranthene	1.141	1.063	6.8	77	-0.01	11.42
83	I	Chrysene-d12	1.000	1.000	0.0	81	-0.01	14.54
84	t	Pyrene	1.419	1.406	0.9	79	0.00	11.88
86	t	Butylbenzylphthalate	0.697	0.638	8.5	71	-0.01	13.48

Initial Calibration Verification

Job Number: JC20098 **Sample:** EF6564-ICV6563
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F156071.D
Project: BMSMC, Building 5 Area, PR

88	t	Benzo[a]anthracene	1.212	1.111	8.3	74	-0.01	14.52
90	t	Chrysene	1.204	1.116	7.3	75	-0.02	14.59
91	t	bis(2-Ethylhexyl)phthalat	0.966	0.878	9.1	70	0.00	14.89
92	I	Perylene-d12	1.000	1.000	0.0	76	-0.01	17.58
93	t	Di-n-octylphthalate	1.753	1.614	7.9	67	0.00	16.35
94	t	Benzo[b]fluoranthene	1.236	1.149	7.0	72	-0.01	16.83
95	t	Benzo[k]fluoranthene	1.210	1.203	0.6	77	-0.02	16.89
96	t	Benzo[a]pyrene	1.132	1.096	3.2	74	-0.01	17.47
97	t	Indeno[1,2,3-cd]pyrene	1.044	1.002	4.0	72	-0.02	19.53
99	t	Dibenz[a,h]anthracene	1.010	0.973	3.7	73	-0.02	19.59
101	t	Benzo[g,h,i]perylene	1.128	1.079	4.3	74	-0.02	19.95

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F156062A.D MF6563.M Thu Apr 07 09:55:37 2016 RT1

6.7.54

6

Initial Calibration Verification

Job Number: JC20098 **Sample:** EF6564-ICV6563
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F156072.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EF6564\F156072.D          Vial: 14
Acq On    :  5 Apr 2016   5:13 am                   Operator: sarad
Sample    : icv6563-50                              Inst    : MSF
Misc      : op92661,ef6564,100                      Multiplr: 1.00
MS Integration Params: LSCINT.P

Method       : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Wed Apr 06 08:33:31 2016
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	98	0.00	4.88
2	t	1,4-Dioxane	0.619	0.548	11.5	88	0.00	2.49
6	t	Indene	2.367	2.240	5.4	100	0.00	5.07
7	t	Cumene	3.180	2.825	11.2	91	0.00	4.29
13	t	Decane	1.278	1.119	12.4	94	0.00	4.76
18	t	Acetophenone	1.790	1.667	6.9	100	0.00	5.17
24	I	Naphthalene-d8	1.000	1.000	0.0	110	0.00	5.80
27	t	Quinoline	0.773	0.578	25.2	85	-0.02	6.05
41	t	Caprolactam	0.152	0.112	26.3	82	-0.03	6.09
45	t	1-Methylnaphthalene	0.634	0.469	26.0	86	0.00	6.41
46	t	Dimethylnaphthalene	0.642	0.480	25.2	87	0.00	6.86
47	I	Acenaphthene-d10	1.000	1.000	0.0	93	0.00	7.27
48	t	Hexachlorocyclopentadiene	0.271	0.278	-2.6	96	0.00	6.46
53	t	Biphenyl	1.484	1.284	13.5	87	0.00	6.72
69	I	Phenanthrene-d10	1.000	1.000	0.0	88	0.00	9.21
82	t	Octadecane	0.468	0.437	6.6	84	0.00	9.10
92	I	Perylene-d12	1.000	1.000	0.0	79	-0.01	17.58
100	t	7,12-Dimethylbenz(a)anthr	0.483	0.447	7.5	68	-0.02	16.84

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F156062A.D MF6563.M Thu Apr 07 09:55:39 2016 RT1

Initial Calibration Verification

Job Number: JC20098 **Sample:** EF6564-ICV6564
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F156072A.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EF6564\F156072A.D          Vial: 14
Acq On    :  5 Apr 2016   5:13 am                    Operator: sarad
Sample    : icv6564-50                               Inst    : MSF
Misc      : op92661,ef6564,100                       Multiplr: 1.00
MS Integration Params: LSCINT.P

Method       : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Wed Apr 06 08:33:31 2016
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	109	0.00	4.88
160 t	Benzaldehyde	1.126	1.021	9.3	105	0.00	4.56
165	Phenanthrene-d10b	1.000	1.000	0.0	97	0.00	9.21
166	Atrazine	0.192	0.172	10.4	90	0.00	8.79

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F156062A.D MF6563.M Thu Apr 07 09:55:40 2016 RT1

Initial Calibration Verification

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: EF6564-ICV6564
Lab FileID: F156073A.D

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EF6564\F156073A.D          Vial: 15
Acq On    :  5 Apr 2016   5:42 am                    Operator: sarad
Sample    : icv6564-50                               Inst    : MSF
Misc      : op92661,ef6564,100                       Multiplr: 1.00
MS Integration Params: LSCINT.P

Method       : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Wed Apr 06 08:33:31 2016
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	104	0.00	14.53
168	Benzidine	0.695	0.912	-31.2#	128	0.00	11.76

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F156062A.D MF6563.M Thu Apr 07 09:55:42 2016 RT1

Initial Calibration Verification

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: EF6564-ICV6563
Lab FileID: F156073.D

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EF6564\F156073.D          Vial: 15
Acq On    :  5 Apr 2016   5:42 am                   Operator: sarad
Sample    : icv6563-50                              Inst    : MSF
Misc      : op92661,ef6564,100                      Multiplr: 1.00
MS Integration Params: LSCINT.P

Method       : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Wed Apr 06 08:33:31 2016
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	108	-0.02	14.53
89 t	3,3'-Dichlorobenzidine	0.422	0.396	6.2	100	-0.01	14.55

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F156062A.D MF6563.M Thu Apr 07 09:55:41 2016 RT1

Initial Calibration Verification

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: EF6567-ICV6564
Lab FileID: F156097.D

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EF6567\F156097.D          Vial: 10
Acq On    :  5 Apr 2016  10:16 pm                   Operator: sarad
Sample    : icv6564-50                              Inst    : MSF
Misc      : op92661,ef6567                          Multiplr: 1.00
MS Integration Params: LSCINT.P

Method       : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Fri Apr 08 17:01:57 2016
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.
161	I	Naphthalene-d8b	1.000	1.000	0.0	71	0.00	5.80
162	t	Hydroquinone	0.326	0.369	-13.2	69	0.00	6.07

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F156091A.D MF6563AP9.M Fri Apr 08 17:30:38 2016 RT1

Continuing Calibration Summary

Job Number: JC20098 **Sample:** EF6610-CC6563
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F157059.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EF6610\F157059.D          Vial: 2
Acq On    : 13 May 2016   9:00 am                   Operator: brittanp
Sample    : cc6563-50                               Inst    : MSF
Misc      : op93756,ef6610                          Multiplr: 1.00
MS Integration Params: LSCINT.P

Method       : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Wed May 11 16:35:52 2016
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	61	-0.05	4.76
2	t	1,4-Dioxane	0.619	0.567	8.4	56	-0.06	2.33
3	t	Pyridine	1.459	1.503	-3.0	62	-0.06	2.65
4	t	N-Nitrosodimethylamine	0.525	0.594	-13.1	70	-0.07	2.61
5	S	2-Fluorophenol	1.407	1.385	1.6	61	-0.02	3.81
6	t	Indene	2.367	2.577	-8.9	71	-0.06	4.94
7	t	Cumene	3.180	3.602	-13.3	72	-0.07	4.16
8	S	Phenol-d5	1.711	1.798	-5.1	65	-0.01	4.53
9	t	Phenol	1.821	2.102	-15.4	73	-0.04	4.54
10	t	Aniline	1.993	1.824	8.5	61	-0.04	4.52
11	t	bis(2-Chloroethyl)ether	1.310	1.408	-7.5	67	-0.06	4.56
12	t	2-Chlorophenol	1.485	1.468	1.1	62	-0.03	4.62
13	t	Decane	1.278	1.124	12.1	58	-0.06	4.63
14	t	1,3-Dichlorobenzene	1.647	1.587	3.6	61	-0.06	4.71
15	t	1,4-Dichlorobenzene	1.643	1.635	0.5	63	-0.05	4.77
16	t	Benzyl alcohol	0.947	0.959	-1.3	63	-0.04	4.87
17	t	1,2-Dichlorobenzene	1.545	1.531	0.9	63	-0.06	4.88
18	t	Acetophenone	1.790	2.155	-20.4#	80	-0.05	5.05
19	t	2-Methylphenol	1.272	1.338	-5.2	66	-0.03	4.97
20	t	2,2'-oxybis(1-Chloropropa	0.472	0.470	0.4	64	-0.05	4.96
21	t	3&4-Methylphenol	1.304	1.433	-9.9	70	-0.01	5.08
22		n-Nitroso-di-n-propylamin	0.966	1.197	-23.9#	81	-0.04	5.05
23	t	Hexachloroethane	0.509	0.502	1.4	62	-0.05	5.13
24	I	Naphthalene-d8	1.000	1.000	0.0	66	-0.05	5.68
25	S	Nitrobenzene-d5	0.374	0.432	-15.5	76	-0.05	5.17
26	t	Nitrobenzene	0.391	0.458	-17.1	77	-0.07	5.18
27	t	Quinoline	0.773	0.727	6.0	64	-0.04	5.95
28	t	Isophorone	0.668	0.742	-11.1	75	-0.05	5.35
29	t	2-Nitrophenol	0.203	0.200	1.5	66	-0.05	5.41
30	t	2,4-Dimethylphenol	0.320	0.374	-16.9	75	-0.05	5.46
31	t	Benzoic acid	0.267	0.308	-15.4	69	0.00	5.56
32	t	bis(2-Chloroethoxy)methan	0.421	0.419	0.5	69	-0.04	5.50
33	t	2,4-Dichlorophenol	0.319	0.281	11.9	59	0.09	5.60
34		2,6-Dichlorophenol	0.307	0.278	9.4	64	-0.04	5.75
35		1,3,5-Trichlorobenzene	0.336	0.308	8.3	65	-0.05	5.41
36	t	1,2,4-Trichlorobenzene	0.330	0.307	7.0	64	-0.05	5.64
37		1,2,3-Trichlorobenzene	0.326	0.301	7.7	63	-0.05	5.80
38	t	Naphthalene	1.092	1.116	-2.2	72	-0.04	5.70
39	t	4-Chloroaniline	0.451	0.390	13.5	62	-0.04	5.74
40	t	2,3-Dichloroaniline	0.372	0.339	8.9	67	0.08	6.43
41	t	Caprolactam	0.152	0.135	11.2	59	0.08	6.01

Continuing Calibration Summary

Job Number: JC20098 **Sample:** EF6610-CC6563
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F157059.D
Project: BMSMC, Building 5 Area, PR

42	t	Hexachlorobutadiene	0.156	0.156	0.0	69	-0.05	5.78
43	t	4-Chloro-3-methylphenol	0.313	0.347	-10.9	74	-0.03	6.12
44	t	2-Methylnaphthalene	0.616	0.598	2.9	68	0.07	6.20
45	t	1-Methylnaphthalene	0.634	0.622	1.9	68	-0.05	6.28
46	t	Dimethylnaphthalene	0.642	0.628	2.2	68	-0.06	6.72
47	I	Acenaphthene-d10	1.000	1.000	0.0	64	-0.06	7.12
48	t	Hexachlorocyclopentadiene	0.271	0.308	-13.7	73	-0.05	6.33
49	t	2,4,6-Trichlorophenol	0.339	0.336	0.9	68	-0.06	6.44
50	t	2,4,5-Trichlorophenol	0.374	0.361	3.5	65	-0.07	6.49
51	S	2-Fluorobiphenyl	1.277	1.256	1.6	68	-0.05	6.50
52	t	2-Chloronaphthalene	1.156	1.136	1.7	67	-0.05	6.60
53	t	Biphenyl	1.484	1.446	2.6	67	-0.05	6.58
54	t	2-Nitroaniline	0.328	0.428	-30.5#	82	-0.04	6.69
55	t	Dimethylphthalate	1.293	1.297	-0.3	67	-0.05	6.85
56	t	Acenaphthylene	1.874	1.850	1.3	67	-0.07	6.98
57	t	2,6-Dinitrotoluene	0.280	0.295	-5.4	66	-0.05	6.91
58	t	3-Nitroaniline	0.350	0.323	7.7	58	-0.04	7.08
59	t	Acenaphthene	1.177	1.190	-1.1	70	-0.07	7.15
		----------	True	Calc.	% Drift	----------		
60	t	2,4-Dinitrophenol	100.000	100.082	-0.1	64	-0.03	7.19
		----------	AvgRF	CCRF	% Dev	----------		
61	t	4-Nitrophenol	0.164	0.220	-34.1#	83	-0.06	7.31
62	t	Dibenzofuran	1.606	1.561	2.8	67	-0.07	7.33
63	t	2,4-Dinitrotoluene	0.379	0.413	-9.0	68	-0.06	7.31
64		2,3,4,6-Tetrachlorophenol	0.282	0.276	2.1	63	-0.05	7.47
65	t	Diethylphthalate	1.278	1.340	-4.9	69	-0.07	7.58
66	t	Fluorene	1.236	1.308	-5.8	76	-0.08	7.72
67	t	4-Chlorophenyl-phenylethe	0.545	0.553	-1.5	74	-0.07	7.72
68	t	4-Nitroaniline	0.353	0.327	7.4	60	-0.07	7.76
69	I	Phenanthrene-d10	1.000	1.000	0.0	64	-0.09	9.01
70	t	4,6-Dinitro-2-methylpheno	0.126	0.142	-12.7	66	-0.05	7.78
71	t	n-Nitrosodiphenylamine	0.572	0.542	5.2	63	-0.06	7.86
72	t	1,2-Diphenylhydrazine	0.791	0.974	-23.1#	80	-0.07	7.91
73	S	2,4,6-Tribromophenol	0.082	0.100	-22.0#	76	-0.07	8.02
74	t	4-Bromophenyl-phenylether	0.192	0.190	1.0	66	-0.08	8.35
75	t	Hexachlorobenzene	0.184	0.203	-10.3	74	-0.08	8.43
76	t	Pentachlorophenol	0.121	0.131	-8.3	68	-0.06	8.74
77	t	Phenanthrene	1.151	1.143	0.7	68	-0.08	9.05
78	t	Anthracene	1.152	1.171	-1.6	68	-0.09	9.13
79	t	Carbazole	1.080	1.059	1.9	66	-0.07	9.41
80	t	Di-n-butylphthalate	1.349	1.416	-5.0	68	-0.09	10.10
81	t	Fluoranthene	1.141	1.157	-1.4	67	-0.09	11.19
82	t	Octadecane	0.468	0.476	-1.7	67	-0.09	8.90
83	I	Chrysene-d12	1.000	1.000	0.0	74	-0.10	14.28
84	t	Pyrene	1.419	1.311	7.6	68	-0.11	11.64
85	S	Terphenyl-d14	0.812	0.801	1.4	72	-0.10	12.06
86	t	Butylbenzylphthalate	0.697	0.676	3.0	69	-0.10	13.23
87		Butyl stearate	0.378	0.343	9.3	62	-0.10	13.51
88	t	Benzo[a]anthracene	1.212	1.142	5.8	70	-0.09	14.26
89	t	3,3'-Dichlorobenzidine	0.422	0.420	0.5	72	-0.08	14.31
90	t	Chrysene	1.204	1.145	4.9	70	-0.10	14.34
91	t	bis(2-Ethylhexyl)phthalat	0.966	0.946	2.1	69	-0.09	14.64
92	I	Perylene-d12	1.000	1.000	0.0	69	-0.04	17.33
93	t	Di-n-octylphthalate	1.753	1.793	-2.3	68	-0.04	16.09

Continuing Calibration Summary

Job Number: JC20098 **Sample:** EF6610-CC6563
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F157059.D
Project: BMSMC, Building 5 Area, PR

94	t	Benzo[b]fluoranthene	1.236	1.293	-4.6	74	-0.02	16.58
95	t	Benzo[k]fluoranthene	1.210	1.195	1.2	70	-0.03	16.64
96	t	Benzo[a]pyrene	1.132	1.131	0.1	69	-0.03	17.21
97	t	Indeno[1,2,3-cd]pyrene	1.044	1.077	-3.2	71	-0.04	19.28
98	t	Dibenz(a,h)acridine	0.897	0.958	-6.8	73	0.00	18.91
99	t	Dibenz[a,h]anthracene	1.010	1.085	-7.4	74	-0.06	19.33
100	t	7,12-Dimethylbenz(a)anthr	0.483	0.575	-19.0	76	-0.04	16.59
101	t	Benzo[g,h,i]perylene	1.128	1.143	-1.3	71	-0.05	19.70

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F156062A.D MF6563.M Fri May 13 12:35:27 2016 RT1

6.7.60

6

Continuing Calibration Summary

Job Number: JC20098 **Sample:** EF6610-CC6564
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F157060.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\EF6610\F157060.D Vial: 3
Acq On : 13 May 2016 9:29 am Operator: brittanp
Sample : cc6564-50 Inst : MSF
Misc : op93756,ef6610 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed May 11 16:35:52 2016
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	83	-0.05	4.76
103	t	Benzaldehyde	1.126	1.109	1.5	87	-0.02	4.43
104	I	Naphthalene-d8b	1.000	1.000	0.0	93	-0.05	5.68
105	t	Hydroquinone	0.326	0.341	-4.6	84	-0.04	6.01
106		Acenaphthene-d10b	1.000	1.000	0.0	104	-0.07	7.11
107		1,2,4,5-Tetrachlorobenzen	0.557	0.434	22.1#	92	-0.06	6.34
108		Phenanthrene-d10b	1.000	1.000	0.0	94	-0.09	9.00
109		Atrazine	0.192	0.194	-1.0	98	-0.08	8.61
110		Chrysene-d12b	1.000	1.000	0.0	93	-0.10	14.28
111		Benzidine	0.695	0.486	30.1#	61	-0.10	11.53

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F156062A.D MF6563.M Fri May 13 12:35:28 2016 RT1

GC/MS Semi-volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6610\F157066.D Vial: 9
Acq On : 13 May 2016 12:29 pm Operator: brittanp
Sample : jc20098-1 Inst : MSF
Misc : op93867,ef6610,800,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 13 12:51:15 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri May 13 12:40:15 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

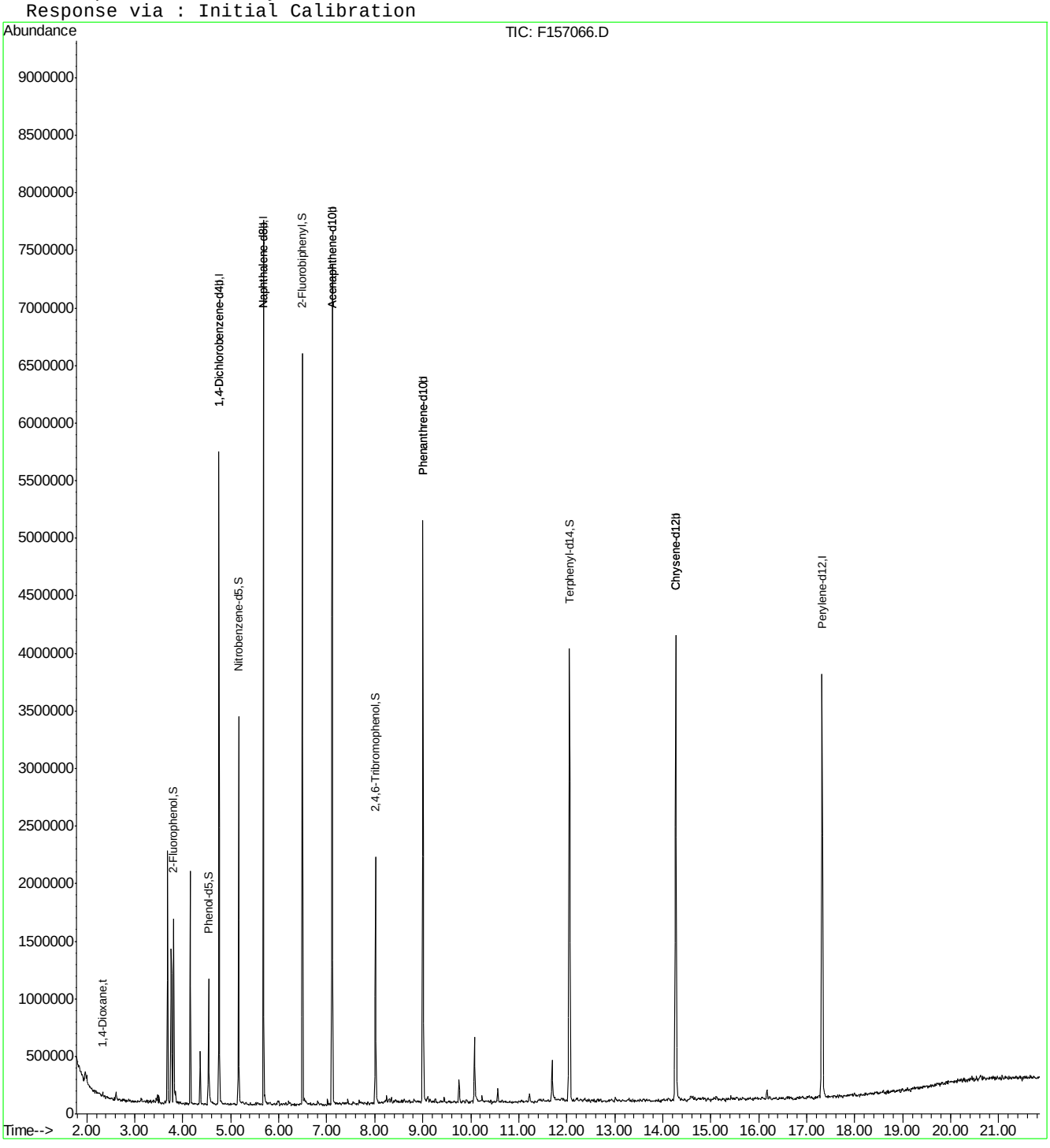
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.76	152	610204	40.00	ppm	0.00
24) Naphthalene-d8	5.68	136	2508997	40.00	ppm	-0.05
47) Acenaphthene-d10	7.11	164	1443926	40.00	ppm	-0.07
69) Phenanthrene-d10	9.00	188	2350623	40.00	ppm	-0.09
83) Chrysene-d12	14.27	240	2155238	40.00	ppm	-0.11
92) Perylene-d12	17.32	264	2039155	40.00	ppm	-0.04
102) 1,4-Dichlorobenzene-d4b	4.76	152	610204	40.00	ppm	-0.05
104) Naphthalene-d8b	5.68	136	2508997	40.00	ppm	-0.05
106) Acenaphthene-d10b	7.11	164	1443926	40.00	ppm	-0.07
108) Phenanthrene-d10b	9.00	188	2350623	40.00	ppm	-0.09
110) Chrysene-d12b	14.27	240	2160406	40.00	ppm	-0.11
System Monitoring Compounds						
5) 2-Fluorophenol	3.80	112	451643	21.05	ppm	-0.02
Spiked Amount 50.000			Recovery	=	42.10%	
8) Phenol-d5	4.54	99	399156	15.30	ppm	0.00
Spiked Amount 50.000			Recovery	=	30.60%	
25) Nitrobenzene-d5	5.16	82	899298	38.38	ppm	-0.06
Spiked Amount 50.000			Recovery	=	76.76%	
51) 2-Fluorobiphenyl	6.49	172	1606387	34.86	ppm	-0.06
Spiked Amount 50.000			Recovery	=	69.72%	
73) 2,4,6-Tribromophenol	8.01	330	239359	49.90	ppm	-0.07
Spiked Amount 50.000			Recovery	=	99.80%	
85) Terphenyl-d14	12.06	244	1770134	40.44	ppm	-0.11
Spiked Amount 50.000			Recovery	=	80.88%	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.33	88	11200	1.19	ppm	82

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

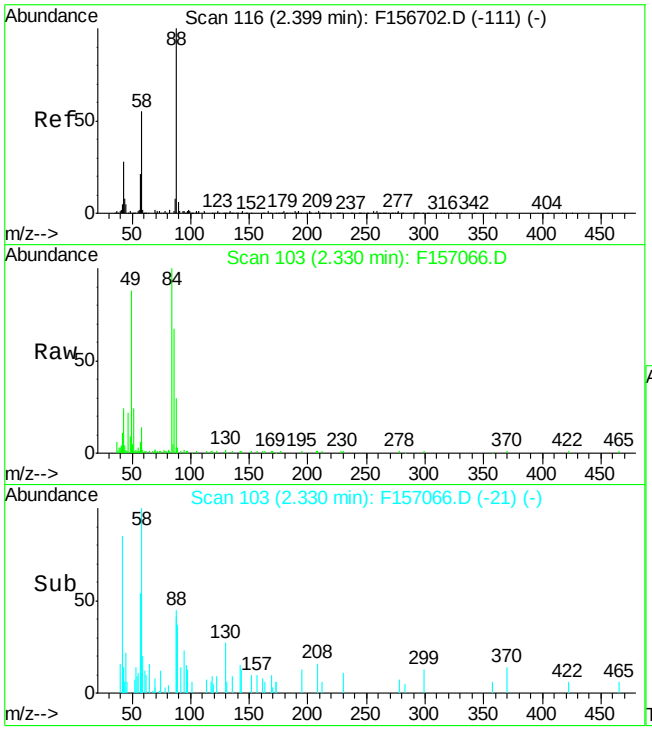
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6610\F157066.D Vial: 9
Acq On : 13 May 2016 12:29 pm Operator: brittanp
Sample : jc20098-1 Inst : MSF
Misc : op93867,ef6610,800,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 13 13:46 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri May 13 12:40:44 2016
Response via : Initial Calibration



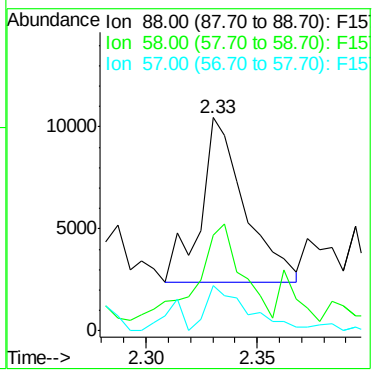
F157066.D MF6563.M Fri May 13 13:46:57 2016 RT1 Page 2



#2
1,4-Dioxane
Concen: 1.19 ppm
RT: 2.33 min Scan# 103
Delta R.T. -0.06 min
Lab File: F157066.D
Acq: 13 May 2016 12:29 pm

Tgt Ion: 88 Resp: 11200

Ion	Ratio	Lower	Upper
88	100		
58	41.0	29.3	89.3
57	22.6	0.0	51.7



7.1.1

7

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2447\
Data File : 3p53791.D
Acq On : 25 May 2016 3:49 pm
Operator : robertl1
Sample : JC20098-2
Misc : op94085,e3p2447,30.3
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 25 16:16:24 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2413.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue May 24 10:53:47 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	4.740	152	40094	40.00 ppm	-0.03
24) Naphthalene-d8	5.665	136	147039	40.00 ppm	-0.04
47) Acenaphthene-d10	7.104	164	89600	40.00 ppm	-0.05
69) Phenanthrene-d10	9.019	188	152561	40.00 ppm	-0.06
83) Chrysene-d12	14.340	240	159337	40.00 ppm	-0.09
91) Perylene-d12	17.411	264	136564	40.00 ppm	-0.08
101) 1,4-Dichlorobenzene-d4a	4.740	152	40094	40.00 ppm	-0.03
103) Acenaphthene-d10a	7.104	164	89600	40.00 ppm	-0.05
106) Chrysene-d12a	14.340	240	159337	40.00 ppm	-0.09
108) Naphthalene-d8a	5.665	136	147039	40.00 ppm	-0.04
System Monitoring Compounds					
5) 2-Fluorophenol	3.761	112	41616	30.58 ppm	-0.03
Spiked Amount 50.000			Recovery	= 61.16%	
8) Phenol-d5	4.483	99	51635	30.14 ppm	-0.01
Spiked Amount 50.000			Recovery	= 60.28%	
25) Nitrobenzene-d5	5.146	82	58843	39.22 ppm	-0.04
Spiked Amount 50.000			Recovery	= 78.44%	
51) 2-Fluorobiphenyl	6.478	172	109473	36.46 ppm	-0.04
Spiked Amount 50.000			Recovery	= 72.92%	
73) 2,4,6-Tribromophenol	8.013	330	18154	39.97 ppm	-0.05
Spiked Amount 50.000			Recovery	= 79.94%	
85) Terphenyl-d14	12.105	244	121439	38.30 ppm	-0.10
Spiked Amount 50.000			Recovery	= 76.60%	

Target Compounds Qvalue

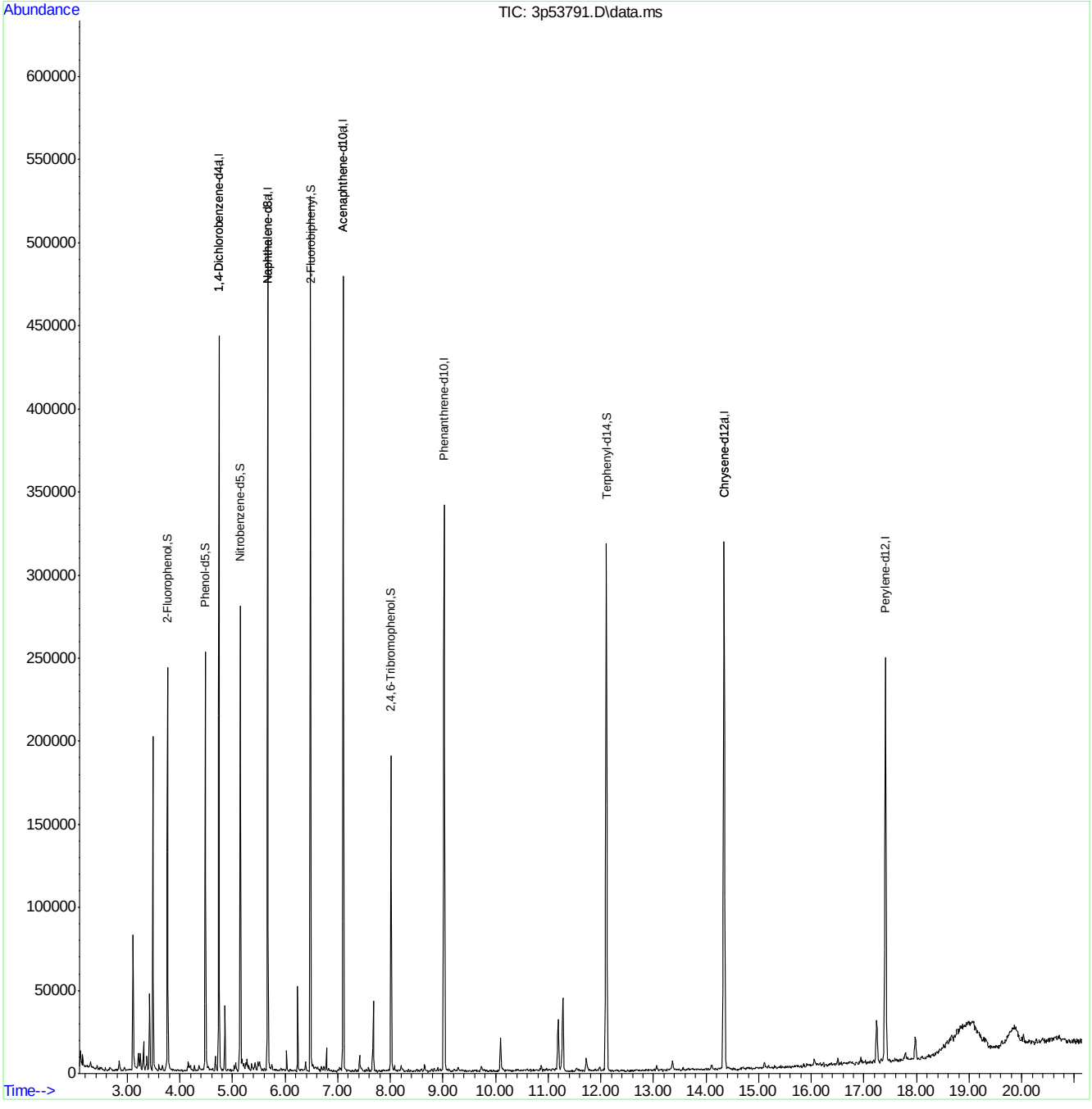
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2447\
Data File : 3p53791.D
Acq On : 25 May 2016 3:49 pm
Operator : robertl1
Sample : JC20098-2
Misc : op94085,e3p2447,30.3
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 25 16:16:24 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2413.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue May 24 10:53:47 2016
Response via : Initial Calibration



SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2447\
Data File : 3p53792.D
Acq On : 25 May 2016 4:17 pm
Operator : robertl1
Sample : JC20098-3
Misc : op94085,e3p2447,32.1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 25 16:54:22 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2413.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue May 24 10:53:47 2016
Response via : Initial Calibration

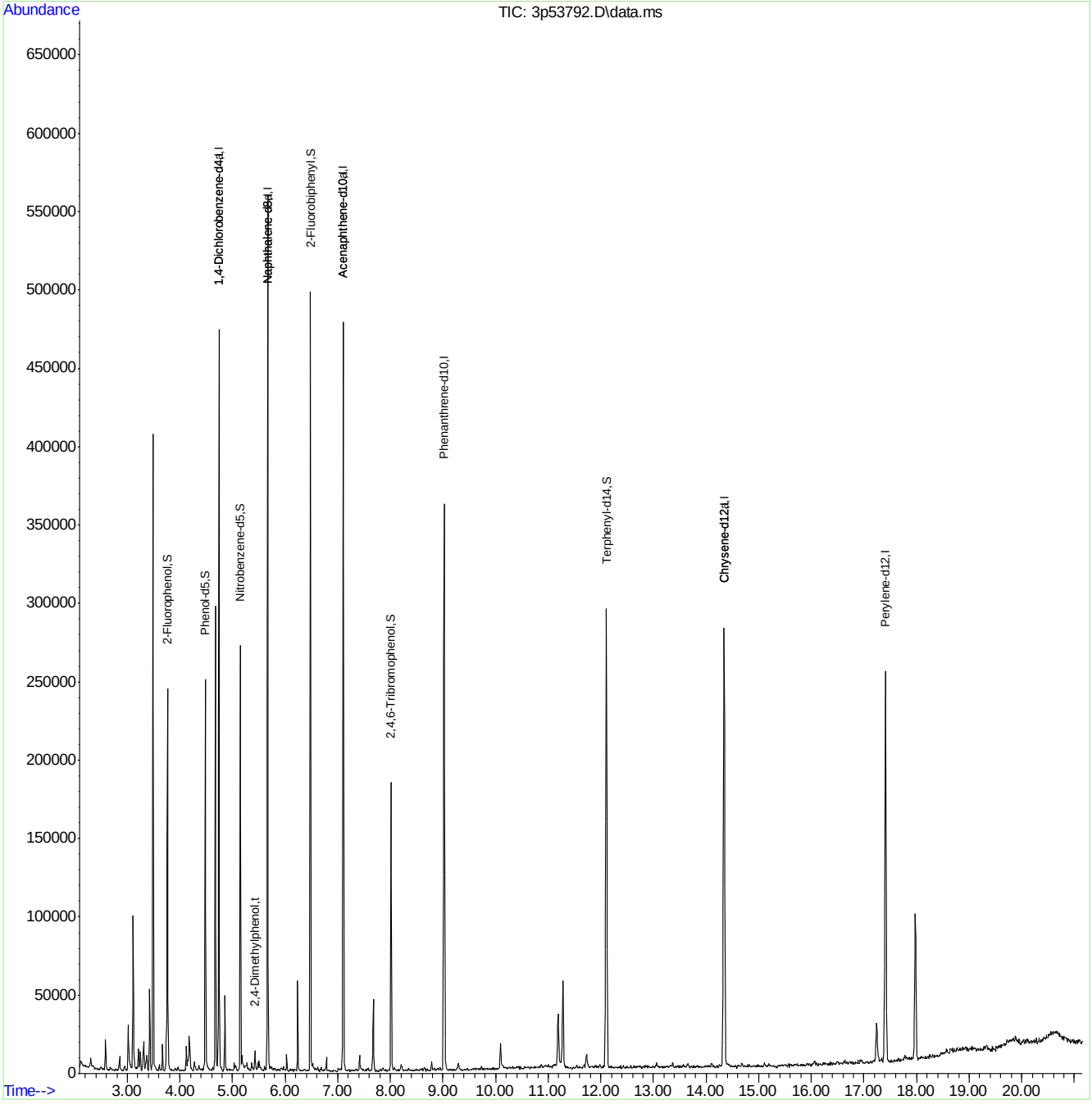
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.740	152	43375	40.00	ppm	-0.03
24) Naphthalene-d8	5.665	136	154871	40.00	ppm	-0.04
47) Acenaphthene-d10	7.104	164	90226	40.00	ppm	-0.05
69) Phenanthrene-d10	9.019	188	154863	40.00	ppm	-0.06
83) Chrysene-d12	14.341	240	154433	40.00	ppm	-0.09
91) Perylene-d12	17.411	264	135669	40.00	ppm	-0.08
101) 1,4-Dichlorobenzene-d4a	4.740	152	43375	40.00	ppm	-0.03
103) Acenaphthene-d10a	7.104	164	90226	40.00	ppm	-0.05
106) Chrysene-d12a	14.341	240	154433	40.00	ppm	-0.09
108) Naphthalene-d8a	5.665	136	154871	40.00	ppm	-0.04
System Monitoring Compounds						
5) 2-Fluorophenol	3.761	112	41526	28.21	ppm	-0.03
Spiked Amount 50.000			Recovery = 56.42%			
8) Phenol-d5	4.483	99	49401	26.66	ppm	-0.01
Spiked Amount 50.000			Recovery = 53.32%			
25) Nitrobenzene-d5	5.146	82	57161	36.17	ppm	-0.04
Spiked Amount 50.000			Recovery = 72.34%			
51) 2-Fluorobiphenyl	6.478	172	104239	34.47	ppm	-0.04
Spiked Amount 50.000			Recovery = 68.94%			
73) 2,4,6-Tribromophenol	8.013	330	17260	37.44	ppm	-0.05
Spiked Amount 50.000			Recovery = 74.88%			
85) Terphenyl-d14	12.105	244	111271	36.21	ppm	-0.10
Spiked Amount 50.000			Recovery = 72.42%			
Target Compounds						Qvalue
30) 2,4-Dimethylphenol	5.424	107	2157	1.59	ppm	96

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

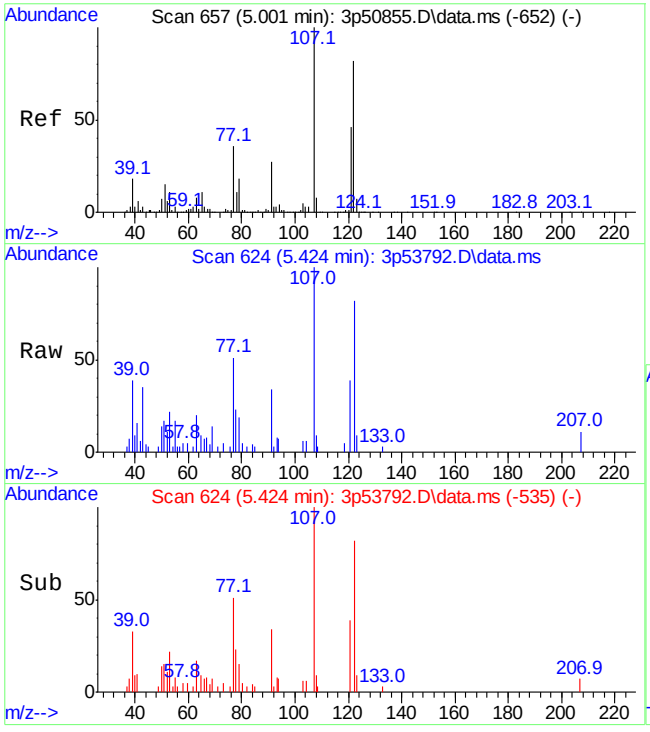
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2447\
Data File : 3p53792.D
Acq On : 25 May 2016 4:17 pm
Operator : robertl1
Sample : JC20098-3
Misc : op94085,e3p2447,32.1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 25 16:54:22 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2413.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue May 24 10:53:47 2016
Response via : Initial Calibration



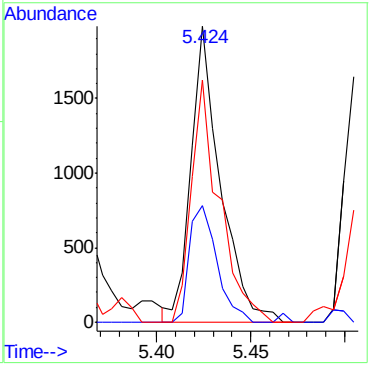
M3P2413.M Wed May 25 16:54:34 2016 Page: 2



#30
2,4-Dimethylphenol
Concen: 1.59 ppm
RT: 5.424 min Scan# 624
Delta R.T. -0.024 min
Lab File: 3p53792.D
Acq: 25 May 2016 4:17 pm

Tgt Ion:107 Resp: 2157

Ion	Ratio	Lower	Upper
107	100		
121	40.5	13.6	73.6
122	84.0	51.2	111.2



7.1.3

7

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6610\F157067.D Vial: 10
Acq On : 13 May 2016 12:58 pm Operator: brittanp
Sample : jc20098-4 Inst : MSF
Misc : op93867,ef6610,810,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 13 13:20:04 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri May 13 12:40:15 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

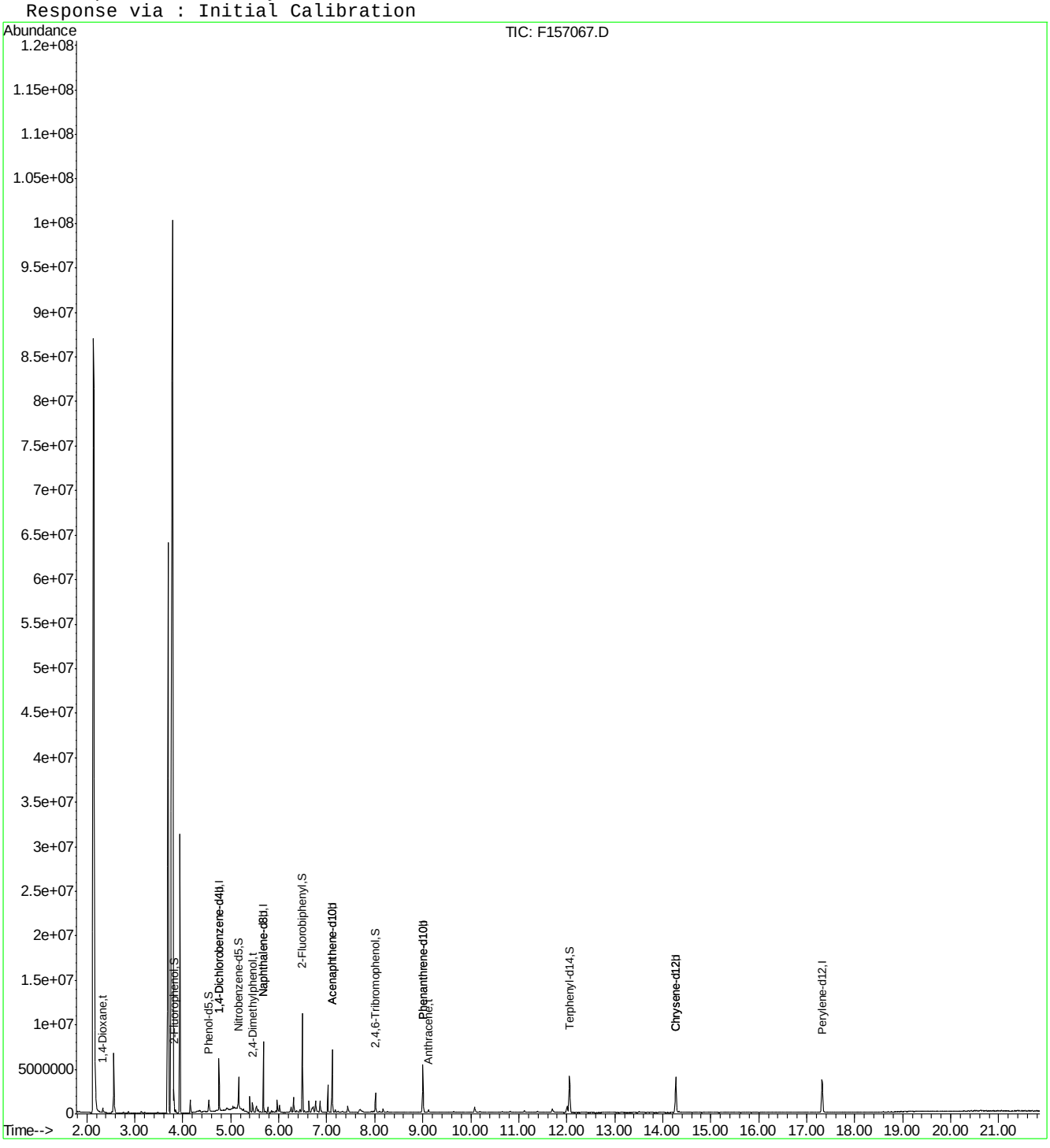
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.76	152	637302	40.00	ppm	0.00
24) Naphthalene-d8	5.68	136	2558781	40.00	ppm	-0.05
47) Acenaphthene-d10	7.11	164	1488902	40.00	ppm	-0.07
69) Phenanthrene-d10	9.00	188	2421486	40.00	ppm	-0.09
83) Chrysene-d12	14.28	240	2229813	40.00	ppm	-0.10
92) Perylene-d12	17.32	264	2101066	40.00	ppm	-0.04
102) 1,4-Dichlorobenzene-d4b	4.76	152	637302	40.00	ppm	-0.05
104) Naphthalene-d8b	5.68	136	2558781	40.00	ppm	-0.05
106) Acenaphthene-d10b	7.11	164	1488902	40.00	ppm	-0.07
108) Phenanthrene-d10b	9.00	188	2421486	40.00	ppm	-0.09
110) Chrysene-d12b	14.28	240	2229813	40.00	ppm	-0.10
System Monitoring Compounds						
5) 2-Fluorophenol	3.82	112	526674	23.50	ppm	-0.01
Spiked Amount 50.000			Recovery	=	47.00%	
8) Phenol-d5	4.54	99	491788	18.04	ppm	0.00
Spiked Amount 50.000			Recovery	=	36.08%	
25) Nitrobenzene-d5	5.16	82	904990	37.87	ppm	-0.06
Spiked Amount 50.000			Recovery	=	75.74%	
51) 2-Fluorobiphenyl	6.49	172	1824597	38.39	ppm	-0.06
Spiked Amount 50.000			Recovery	=	76.78%	
73) 2,4,6-Tribromophenol	8.01	330	237848	48.13	ppm	-0.07
Spiked Amount 50.000			Recovery	=	96.26%	
85) Terphenyl-d14	12.06	244	1804594	39.85	ppm	-0.11
Spiked Amount 50.000			Recovery	=	79.70%	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.33	88	260759	26.42	ppm	97
30) 2,4-Dimethylphenol	5.46	107	237111	11.59	ppm	98
78) Anthracene	9.12	178	139259	2.00	ppm	99

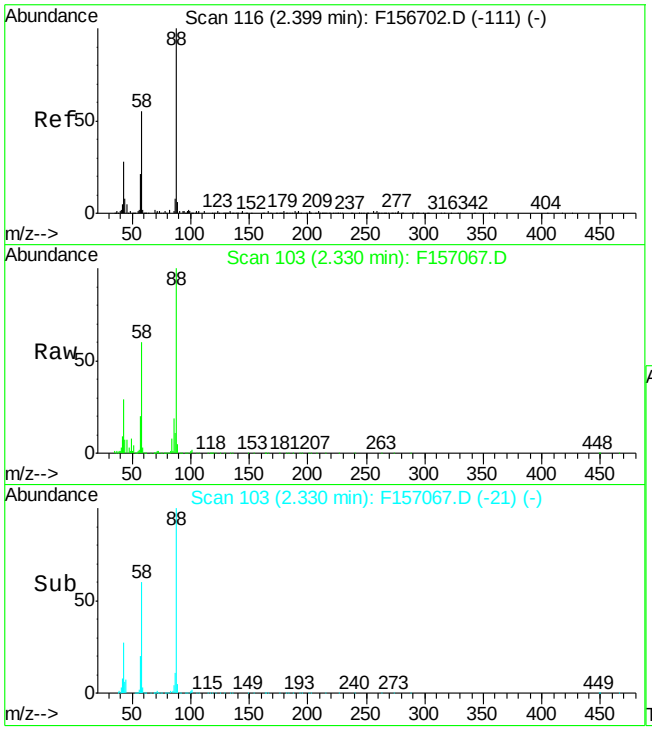
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6610\F157067.D Vial: 10
Acq On : 13 May 2016 12:58 pm Operator: brittanp
Sample : jc20098-4 Inst : MSF
Misc : op93867,ef6610,810,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 13 13:48 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri May 13 12:40:44 2016
Response via : Initial Calibration

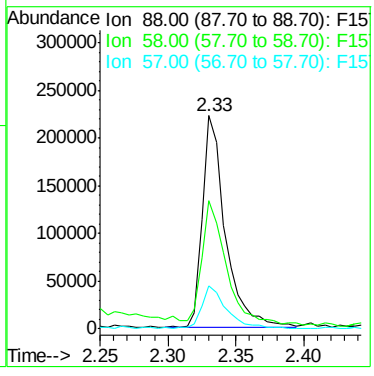


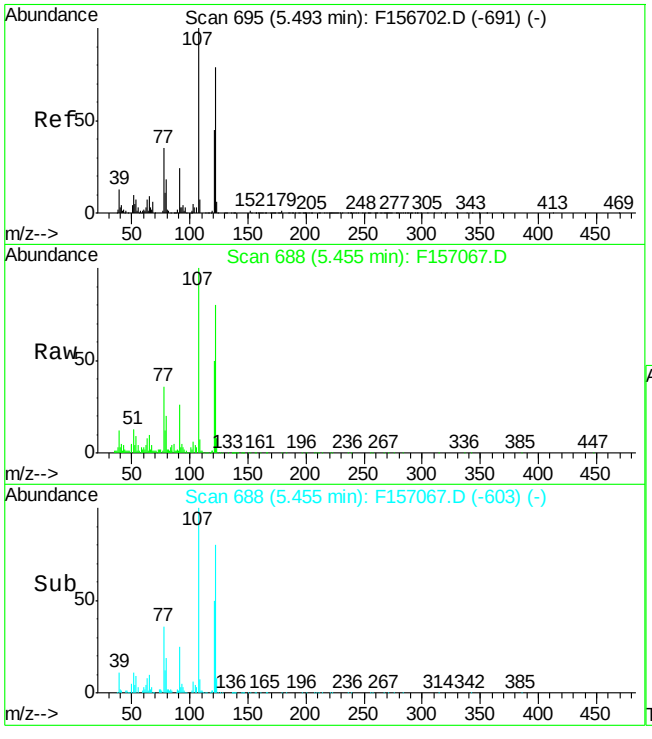


#2
1,4-Dioxane
Concen: 26.42 ppm
RT: 2.33 min Scan# 103
Delta R.T. -0.06 min
Lab File: F157067.D
Acq: 13 May 2016 12:58 pm

Tgt Ion: 88 Resp: 260759

Ion	Ratio	Lower	Upper
88	100		
58	57.2	29.3	89.3
57	19.7	0.0	51.7

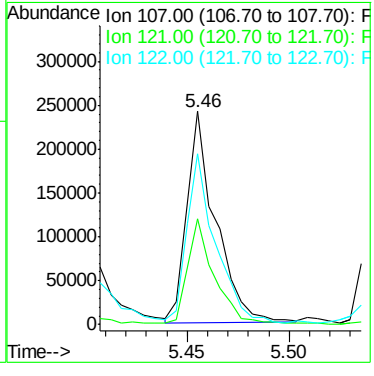


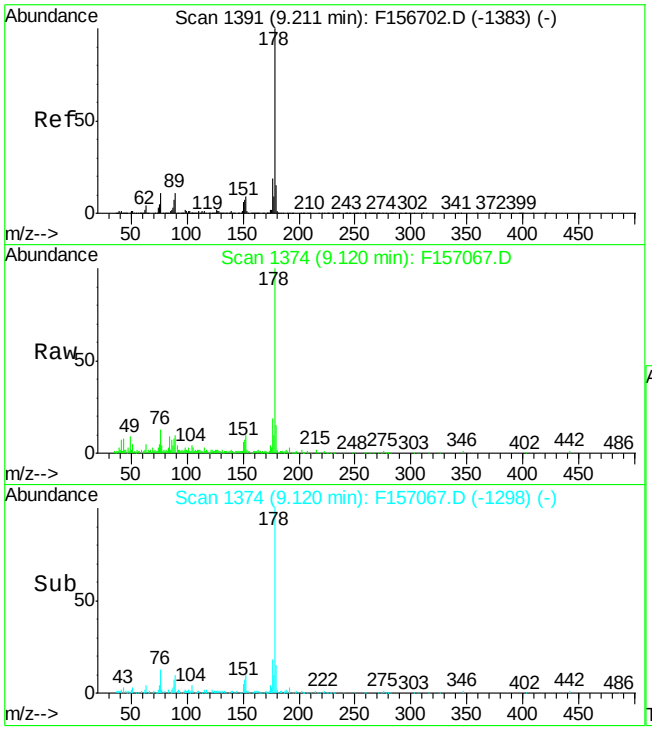


#30
2,4-Dimethylphenol
Concen: 11.59 ppm
RT: 5.46 min Scan# 688
Delta R.T. -0.05 min
Lab File: F157067.D
Acq: 13 May 2016 12:58 pm

Tgt Ion:107 Resp: 237111

Ion	Ratio	Lower	Upper
107	100		
121	50.2	17.3	77.3
122	79.9	50.9	110.9

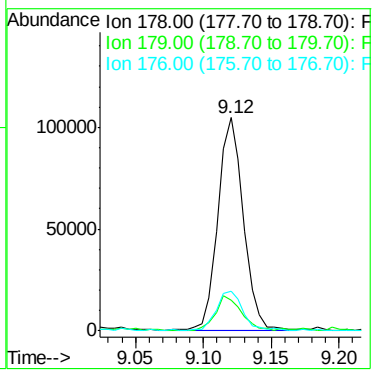




#78
Anthracene
Concen: 2.00 ppm
RT: 9.12 min Scan# 1374
Delta R.T. -0.09 min
Lab File: F157067.D
Acq: 13 May 2016 12:58 pm

Tgt Ion:178 Resp: 139259

Ion	Ratio	Lower	Upper
178	100		
179	14.3	0.0	45.2
176	18.7	0.0	48.4



7.1.4

7

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6610\F157068.D Vial: 11
Acq On : 13 May 2016 1:26 pm Operator: brittanp
Sample : jc20098-5 Inst : MSF
Misc : op93867,ef6610,800,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 13 13:48:51 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri May 13 12:40:15 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

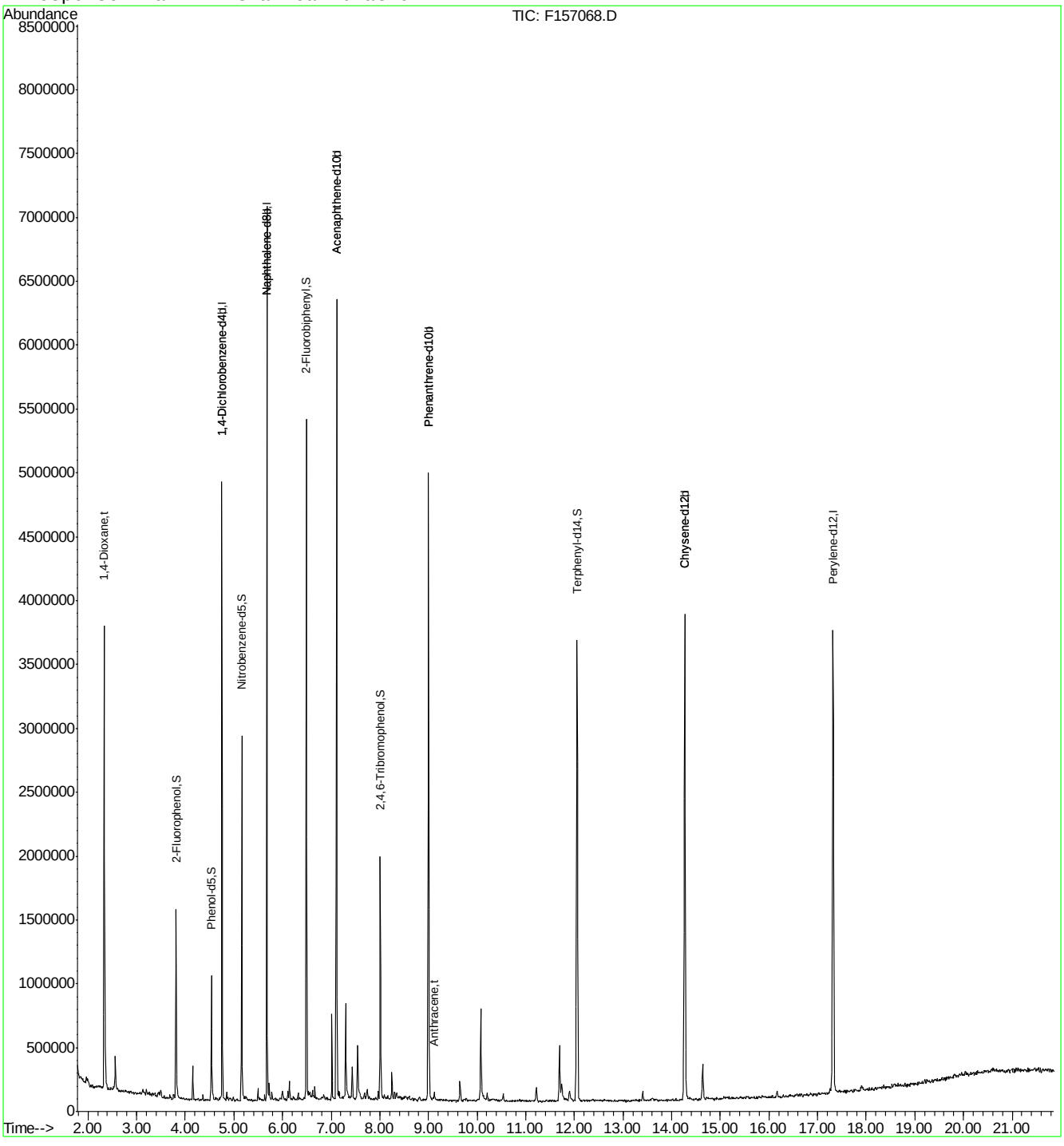
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.76	152	544252	40.00	ppm	0.00
24) Naphthalene-d8	5.68	136	2274540	40.00	ppm	-0.05
47) Acenaphthene-d10	7.11	164	1339253	40.00	ppm	-0.07
69) Phenanthrene-d10	9.00	188	2172468	40.00	ppm	-0.09
83) Chrysene-d12	14.27	240	2066784	40.00	ppm	-0.11
92) Perylene-d12	17.32	264	1962229	40.00	ppm	-0.04
102) 1,4-Dichlorobenzene-d4b	4.76	152	544252	40.00	ppm	-0.05
104) Naphthalene-d8b	5.68	136	2274540	40.00	ppm	-0.05
106) Acenaphthene-d10b	7.11	164	1339253	40.00	ppm	-0.07
108) Phenanthrene-d10b	9.00	188	2172468	40.00	ppm	-0.09
110) Chrysene-d12b	14.27	240	2066784	40.00	ppm	-0.11
System Monitoring Compounds						
5) 2-Fluorophenol	3.81	112	373307	19.50	ppm	-0.02
Spiked Amount 50.000			Recovery = 39.00%			
8) Phenol-d5	4.54	99	337338	14.49	ppm	0.00
Spiked Amount 50.000			Recovery = 28.98%			
25) Nitrobenzene-d5	5.16	82	754132	35.50	ppm	-0.06
Spiked Amount 50.000			Recovery = 71.00%			
51) 2-Fluorobiphenyl	6.49	172	1352510	31.64	ppm	-0.06
Spiked Amount 50.000			Recovery = 63.28%			
73) 2,4,6-Tribromophenol	8.01	330	209503	47.26	ppm	-0.07
Spiked Amount 50.000			Recovery = 94.52%			
85) Terphenyl-d14	12.06	244	1611127	38.38	ppm	-0.11
Spiked Amount 50.000			Recovery = 76.76%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.33	88	1802615	213.89	ppm	99
78) Anthracene	9.12	178	28589	0.46	ppm	96

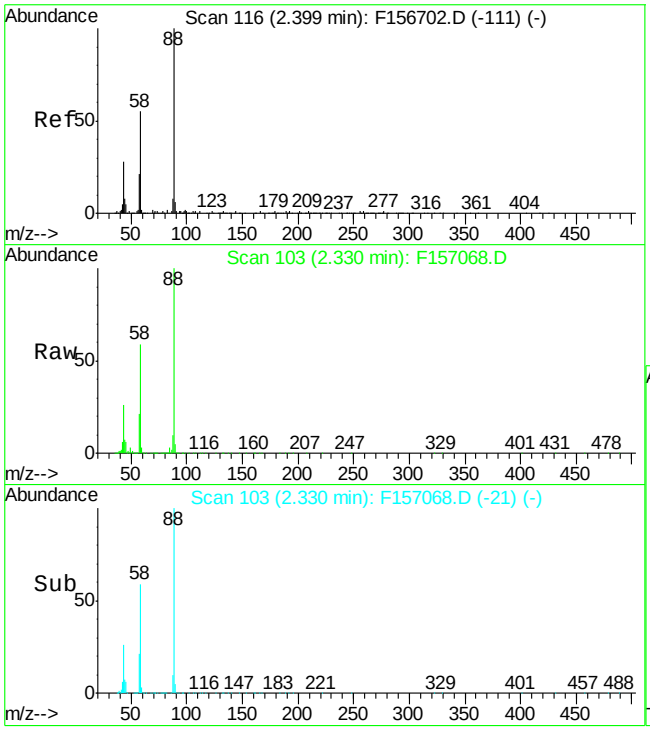
(#) = qualifier out of range (m) = manual integration (+) = signals summed
F157068.D MF6563.M Fri May 13 13:49:48 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6610\F157068.D Vial: 11
Acq On : 13 May 2016 1:26 pm Operator: brittanp
Sample : jc20098-5 Inst : MSF
Misc : op93867,ef6610,800,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 13 13:49 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri May 13 12:40:44 2016
Response via : Initial Calibration

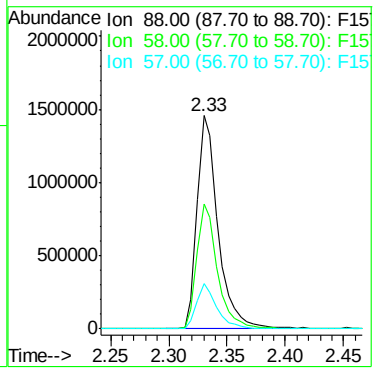


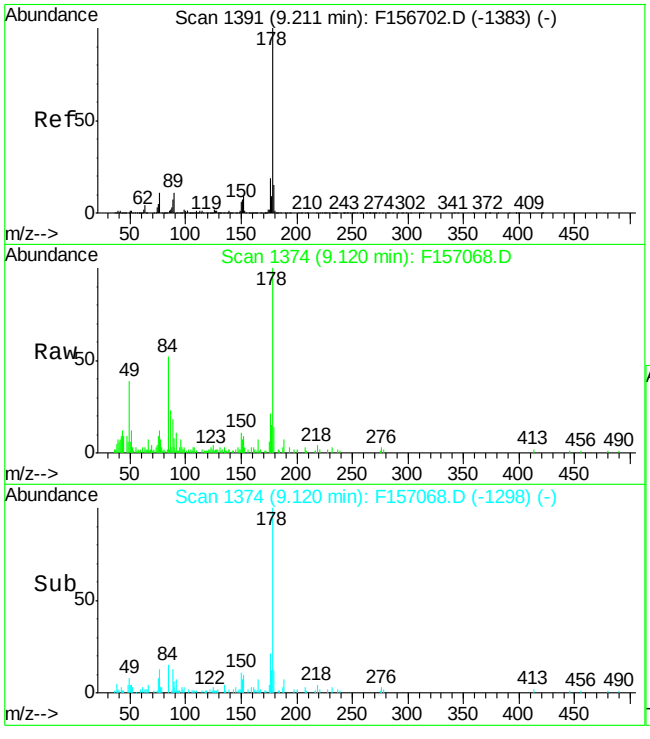


#2
1,4-Dioxane
Concen: 213.89 ppm
RT: 2.33 min Scan# 103
Delta R.T. -0.06 min
Lab File: F157068.D
Acq: 13 May 2016 1:26 pm

Tgt Ion: 88 Resp: 1802615

Ion	Ratio	Lower	Upper
88	100		
58	58.6	29.3	89.3
57	21.2	0.0	51.7

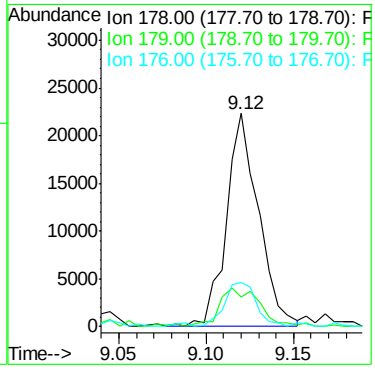




#78
Anthracene
Concen: 0.46 ppm
RT: 9.12 min Scan# 1374
Delta R.T. -0.09 min
Lab File: F157068.D
Acq: 13 May 2016 1:26 pm

Tgt Ion:178 Resp: 28589

Ion	Ratio	Lower	Upper
178	100		
179	13.0	0.0	45.2
176	20.1	0.0	48.4



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6610\F157081.D Vial: 24
Acq On : 13 May 2016 2:54 pm Operator: brittanp
Sample : jc20098-5 Inst : MSF
Misc : op93867,ef6610,800,,,1,10 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 13 15:16:03 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri May 13 12:40:15 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

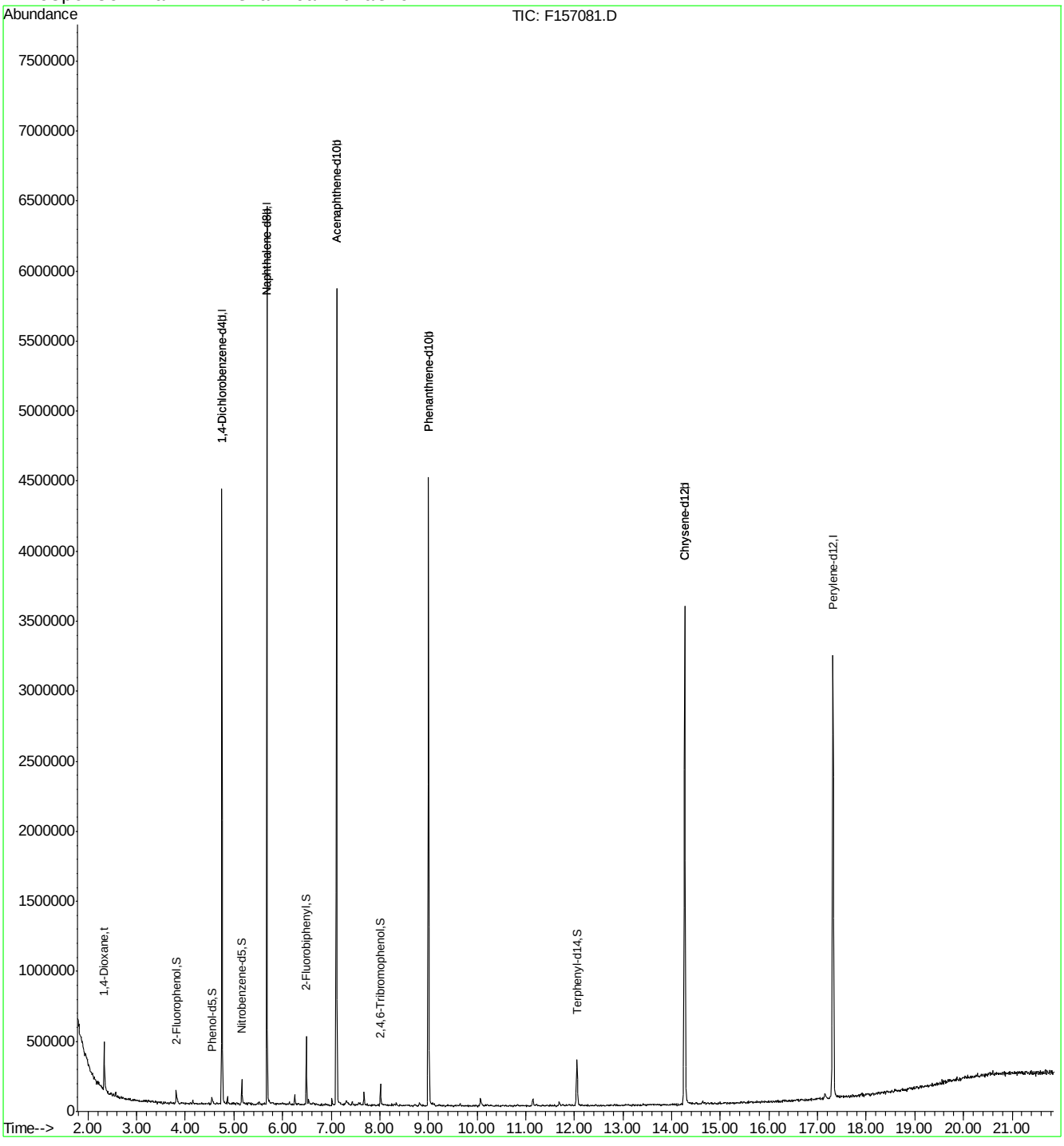
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.76	152	509618	40.00	ppm	0.00
24) Naphthalene-d8	5.68	136	2106640	40.00	ppm	-0.05
47) Acenaphthene-d10	7.11	164	1262523	40.00	ppm	-0.07
69) Phenanthrene-d10	9.00	188	2032539	40.00	ppm	-0.09
83) Chrysene-d12	14.27	240	1882304	40.00	ppm	-0.11
92) Perylene-d12	17.32	264	1770113	40.00	ppm	-0.04
102) 1,4-Dichlorobenzene-d4b	4.76	152	509618	40.00	ppm	-0.05
104) Naphthalene-d8b	5.68	136	2106640	40.00	ppm	-0.05
106) Acenaphthene-d10b	7.11	164	1262523	40.00	ppm	-0.07
108) Phenanthrene-d10b	9.00	188	2032539	40.00	ppm	-0.09
110) Chrysene-d12b	14.27	240	1882304	40.00	ppm	-0.11
System Monitoring Compounds						
5) 2-Fluorophenol	3.81	112	27174	1.52	ppm	-0.01
Spiked Amount 50.000			Recovery	=	3.04%	
8) Phenol-d5	4.55	99	27759	1.27	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.54%	
25) Nitrobenzene-d5	5.16	82	62008	3.15	ppm	-0.06
Spiked Amount 50.000			Recovery	=	6.30%	
51) 2-Fluorobiphenyl	6.49	172	123179	3.06	ppm	-0.06
Spiked Amount 50.000			Recovery	=	6.12%	
73) 2,4,6-Tribromophenol	8.01	330	20659	4.98	ppm	-0.07
Spiked Amount 50.000			Recovery	=	9.96%	
85) Terphenyl-d14	12.05	244	143592	3.76	ppm	-0.11
Spiked Amount 50.000			Recovery	=	7.52%	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.33	88	171344	21.71	ppm	94

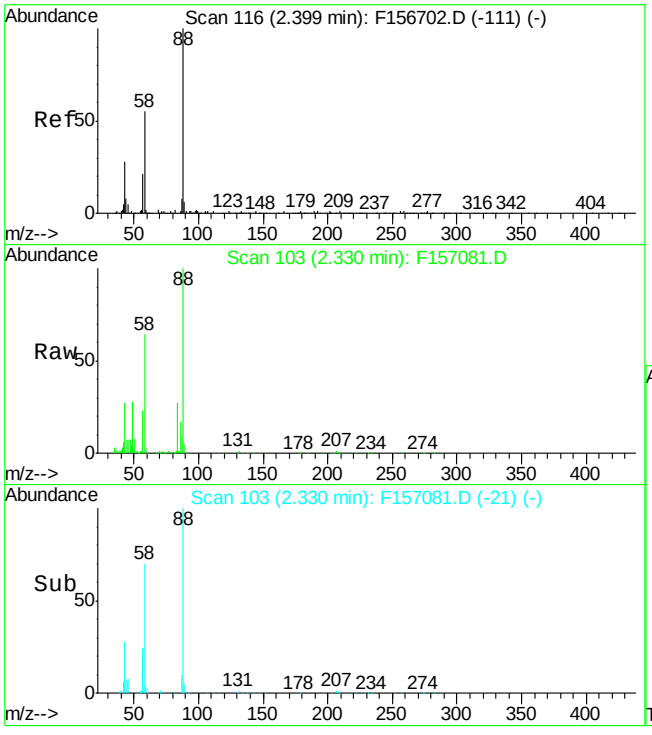
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6610\F157081.D Vial: 24
Acq On : 13 May 2016 2:54 pm Operator: brittanp
Sample : jc20098-5 Inst : MSF
Misc : op93867,ef6610,800,,,1,10 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 13 15:19 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri May 13 15:18:37 2016
Response via : Initial Calibration

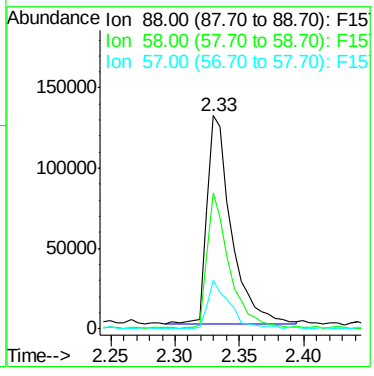




#2
1,4-Dioxane
Concen: 21.71 ppm
RT: 2.33 min Scan# 103
Delta R.T. -0.06 min
Lab File: F157081.D
Acq: 13 May 2016 2:54 pm

Tgt Ion: 88 Resp: 171344

Ion	Ratio	Lower	Upper
88	100		
58	64.7	29.3	89.3
57	22.8	0.0	51.7



7.1.6

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2882\
Data File : 3m61312.D
Acq On : 13 May 2016 2:22 pm
Operator : ashleyd
Sample : jc20098-1
Misc : op93867a,e3m2882,800
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 13 14:57:01 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 12 12:34:26 2016
Response via : Initial Calibration

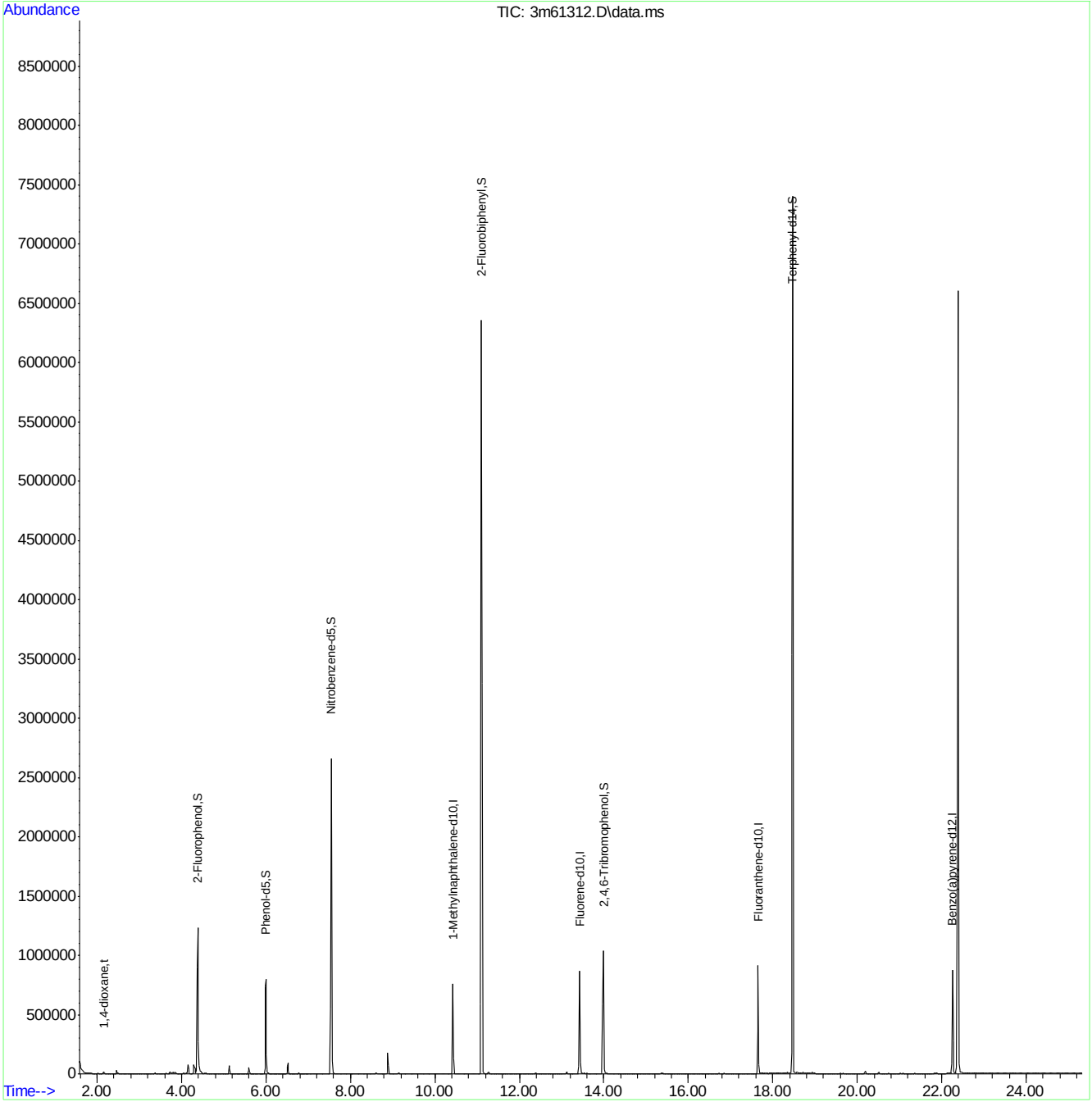
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.427	150	422906	4.00	ppm	0.06
14) Fluorene-d10	13.430	176	605291	4.00	ppm	0.06
21) Fluoranthene-d10	17.654	212	987241	4.00	ppm	0.06
31) Benzo(a)pyrene-d12	22.259	264	812853	4.00	ppm	0.06
System Monitoring Compounds						
3) 2-Fluorophenol	4.384	112	1154437	21.82	ppm	0.07
Spiked Amount 50.000			Recovery = 43.64%			
4) Phenol-d5	6.000	99	1236977	14.13	ppm	0.07
Spiked Amount 50.000			Recovery = 28.26%			
7) Nitrobenzene-d5	7.550	82	2540816	31.21	ppm	0.06
Spiked Amount 50.000			Recovery = 62.42%			
15) 2-Fluorobiphenyl	11.099	172	5639866	33.91	ppm	0.06
Spiked Amount 50.000			Recovery = 67.82%			
20) 2,4,6-Tribromophenol	13.995	330	754045	39.80	ppm	0.07
Spiked Amount 50.000			Recovery = 79.60%			
28) Terphenyl-d14	18.473	244	6711953	46.87	ppm	0.06
Spiked Amount 50.000			Recovery = 93.74%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.159	88	14450	0.66	ppm	74

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

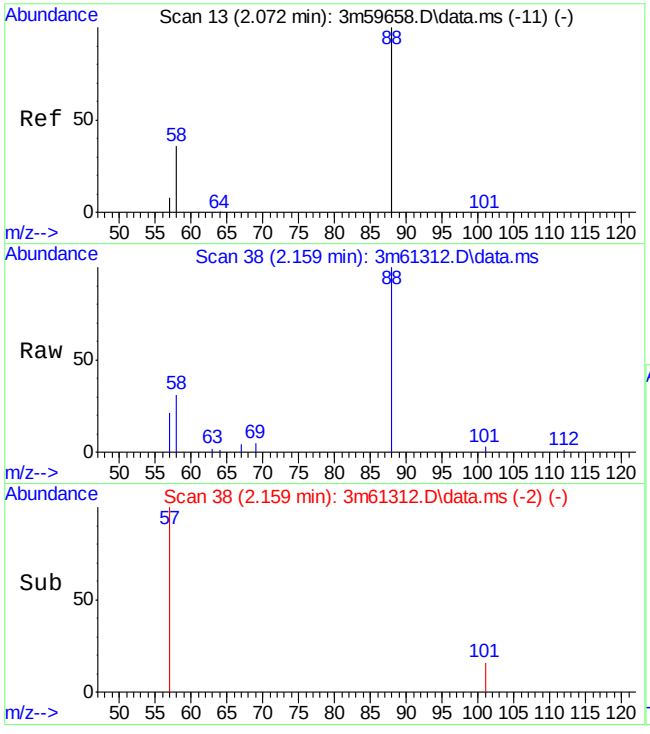
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2882\
Data File : 3m61312.D
Acq On : 13 May 2016 2:22 pm
Operator : ashleyd
Sample : jc20098-1
Misc : op93867a,e3m2882,800
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 13 14:57:01 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 12 12:34:26 2016
Response via : Initial Calibration



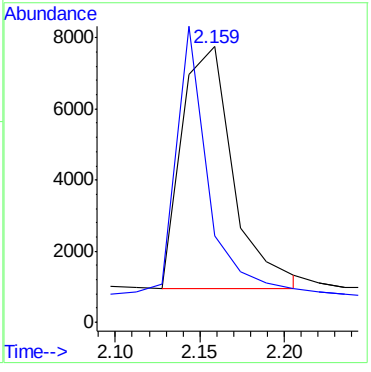
SGS ACCUTEST JC20098



#2
1,4-dioxane
Concen: 0.66 ppm
RT: 2.159 min Scan# 38
Delta R.T. 0.058 min
Lab File: 3m61312.D
Acq: 13 May 2016 2:22 pm

Tgt Ion: 88 Resp: 14450

Ion	Ratio	Lower	Upper
88	100		
58	21.3	16.7	56.7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2931\
Data File : 4m65505.D
Acq On : 24 May 2016 11:55 pm
Operator : linseyk
Sample : jc20098-2
Misc : op94085a,e4m2931,30.3
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 25 08:56:46 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2930SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue May 24 15:08:32 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	9.863	152	185971	4.00	ppm	0.00
12) Fluorene-d10	12.827	176	463462	4.00	ppm	0.00
22) Fluoranthene-d10	17.007	212	715162	4.00	ppm	-0.02
28) Benzo(a)pyrene-d12	21.597	264	531835	4.00	ppm	-0.01
35) 1-Methylnaphthalene-d10a	9.863	152	185971	4.00	ppm	0.00
38) Fluorene-d10a	12.827	176	463462	4.00	ppm	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	4.121	112	1930972	55.78	ppm	0.00
Spiked Amount 50.000	Range 11 - 58		Recovery = 111.56%#			
3) Phenol-d5	5.512	99	3437696	56.52	ppm	0.00
Spiked Amount 50.000			Recovery = 113.04%			
6) Nitrobenzene-d5	7.038	82	2670434	55.27	ppm	0.00
Spiked Amount 50.000			Recovery = 110.54%			
11) 2-Fluorobiphenyl	10.507	172	4582121	59.04	ppm	0.00
Spiked Amount 50.000			Recovery = 118.08%			
17) 2,4,6-Tribromophenol	13.376	330	1061850	58.23	ppm	0.00
Spiked Amount 50.000			Recovery = 116.46%			
25) Terphenyl-d14	17.817	244	5132576	62.85	ppm	0.00
Spiked Amount 50.000			Recovery = 125.70%			
Target Compounds						Qvalue
7) Naphthalene	8.384	128	13184	0.10	ppm	95

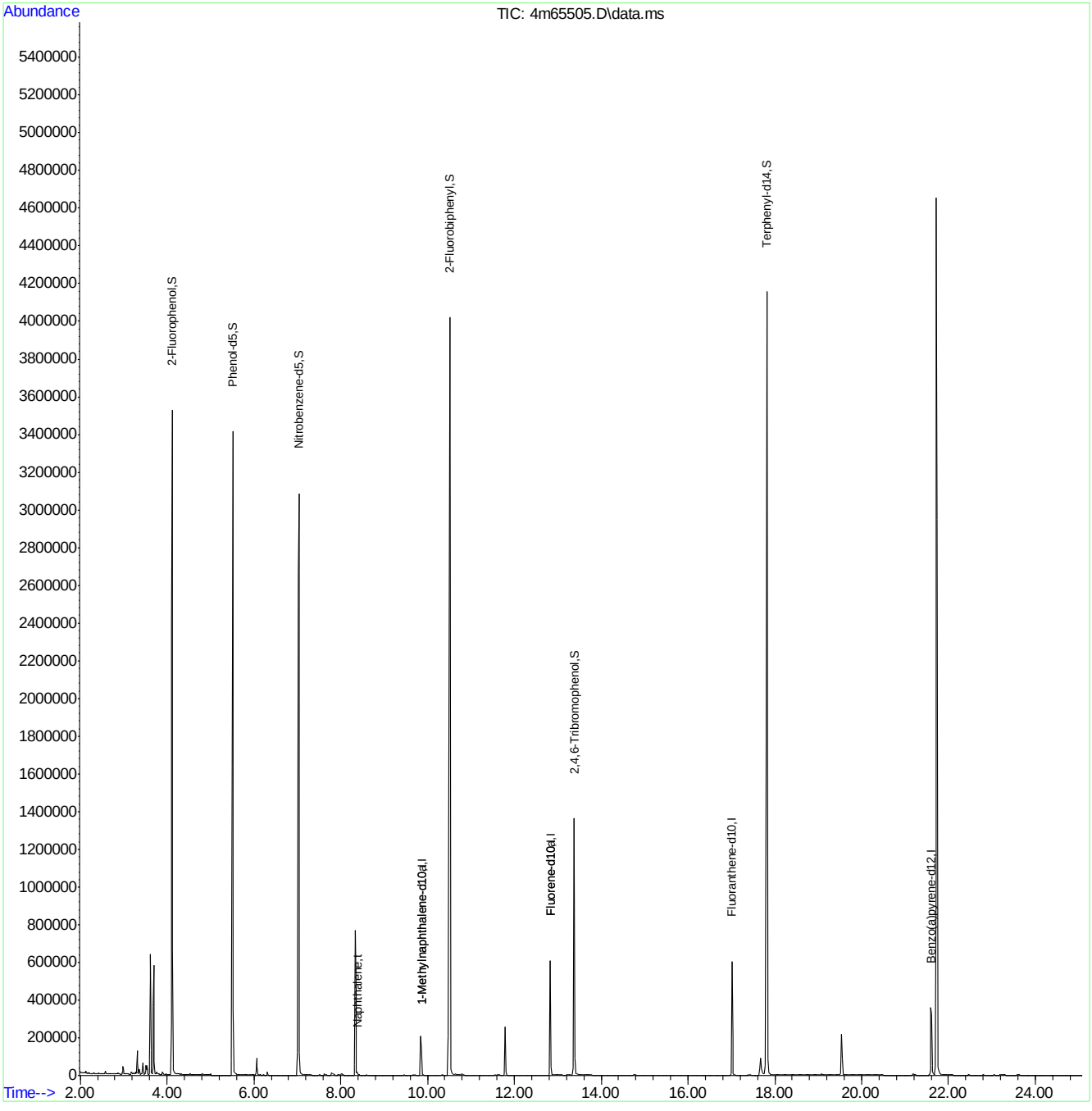
(#) = qualifier out of range (m) = manual integration (+) = signals summed

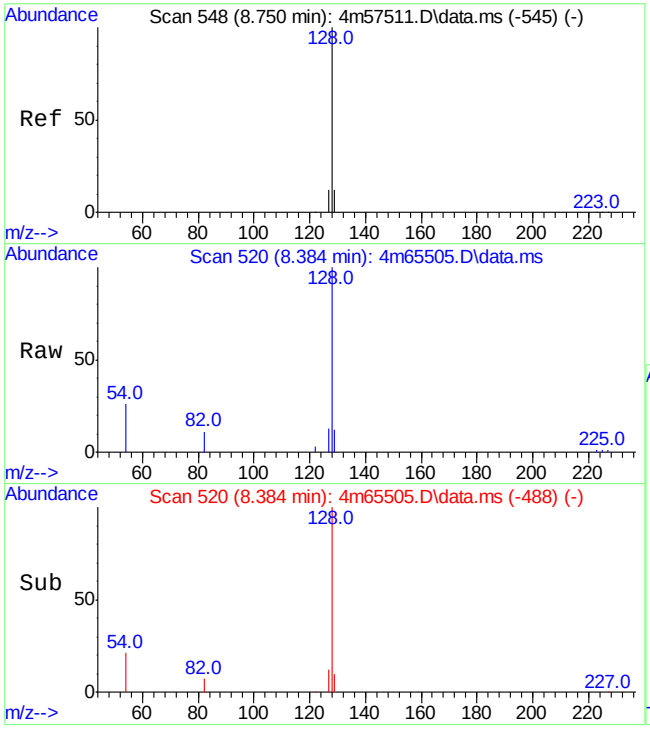
SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2931\
Data File : 4m65505.D
Acq On : 24 May 2016 11:55 pm
Operator : linseyk
Sample : jc20098-2
Misc : op94085a,e4m2931,30.3
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 25 08:56:46 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2930SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue May 24 15:08:32 2016
Response via : Initial Calibration

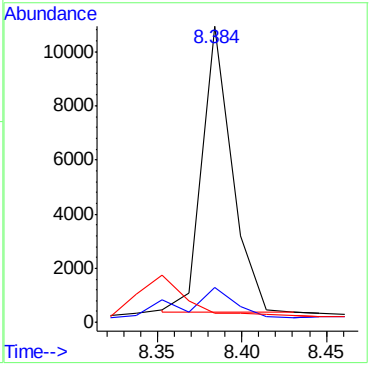




#7
Naphthalene
Concen: 0.10 ppm
RT: 8.384 min Scan# 520
Delta R.T. -0.000 min
Lab File: 4m65505.D
Acq: 24 May 2016 11:55 pm

Tgt Ion:128 Resp: 13184

Ion	Ratio	Lower	Upper
128	100		
129	7.4	0.0	39.1
122	0.0	0.0	30.2



7.1.8

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2931\
Data File : 4m65506.D
Acq On : 25 May 2016 12:25 am
Operator : linseyk
Sample : jc20098-3
Misc : op94085a,e4m2931,32.1
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 25 09:41:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2930SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue May 24 15:08:32 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	9.863	152	179671	4.00	ppm	0.00
12) Fluorene-d10	12.827	176	435579	4.00	ppm	0.00
22) Fluoranthene-d10	17.007	212	681915	4.00	ppm	-0.02
28) Benzo(a)pyrene-d12	21.597	264	499813	4.00	ppm	-0.01
35) 1-Methylnaphthalene-d10a	9.863	152	179671	4.00	ppm	0.00
38) Fluorene-d10a	12.827	176	435579	4.00	ppm	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	4.121	112	1606995	48.05	ppm	0.00
Spiked Amount 50.000	Range 11 - 58		Recovery	=	96.10%#	
3) Phenol-d5	5.512	99	2850825	48.51	ppm	0.00
Spiked Amount 50.000			Recovery	=	97.02%	
6) Nitrobenzene-d5	7.022	82	2204705	47.24	ppm	-0.02
Spiked Amount 50.000			Recovery	=	94.48%	
11) 2-Fluorobiphenyl	10.507	172	3761743	50.17	ppm	0.00
Spiked Amount 50.000			Recovery	=	100.34%	
17) 2,4,6-Tribromophenol	13.376	330	855214	49.90	ppm	0.00
Spiked Amount 50.000			Recovery	=	99.80%	
25) Terphenyl-d14	17.817	244	4223796	54.24	ppm	0.00
Spiked Amount 50.000			Recovery	=	108.48%	
Target Compounds						Qvalue
20) Phenanthrene	14.785	178	26975	0.18	ppm	84
23) Fluoranthene	17.045	202	36611	0.26	ppm	92
24) Pyrene	17.440	202	42283	0.31	ppm	89
26) Benzo[a]anthracene	19.530	228	44667	0.34	ppm #	81
29) Benzo[b]fluoranthene	21.184	252	26317	0.13	ppm	99
31) Benzo[a]pyrene	21.638	252	12569	0.08	ppm	93

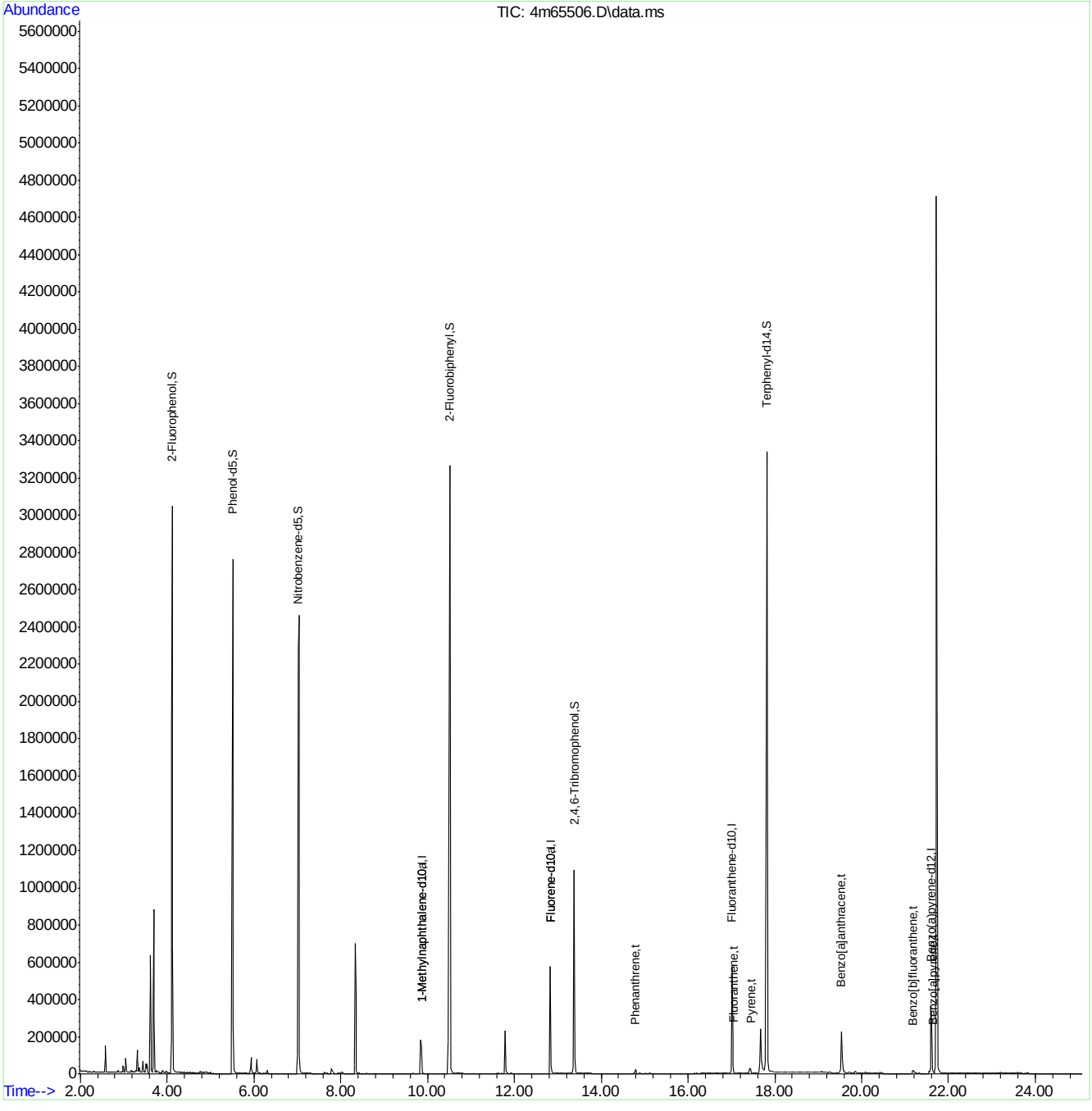
(#) = qualifier out of range (m) = manual integration (+) = signals summed

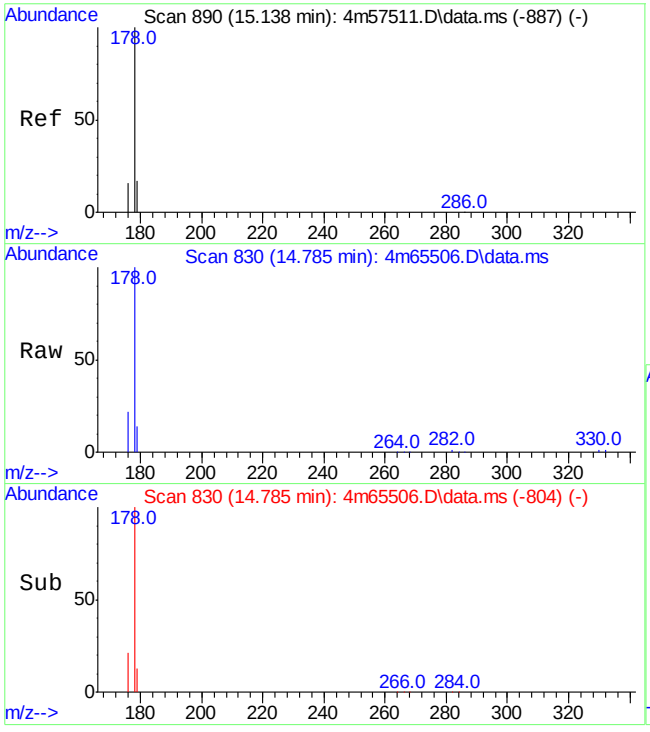
SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2931\
Data File : 4m65506.D
Acq On : 25 May 2016 12:25 am
Operator : linseyk
Sample : jc20098-3
Misc : op94085a,e4m2931,32.1
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 25 09:41:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2930SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue May 24 15:08:32 2016
Response via : Initial Calibration

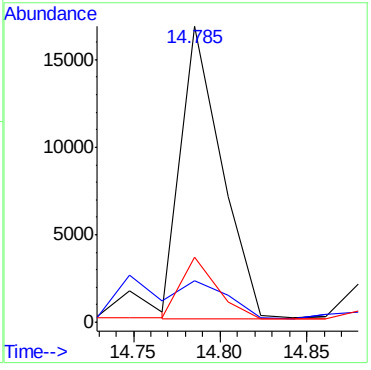


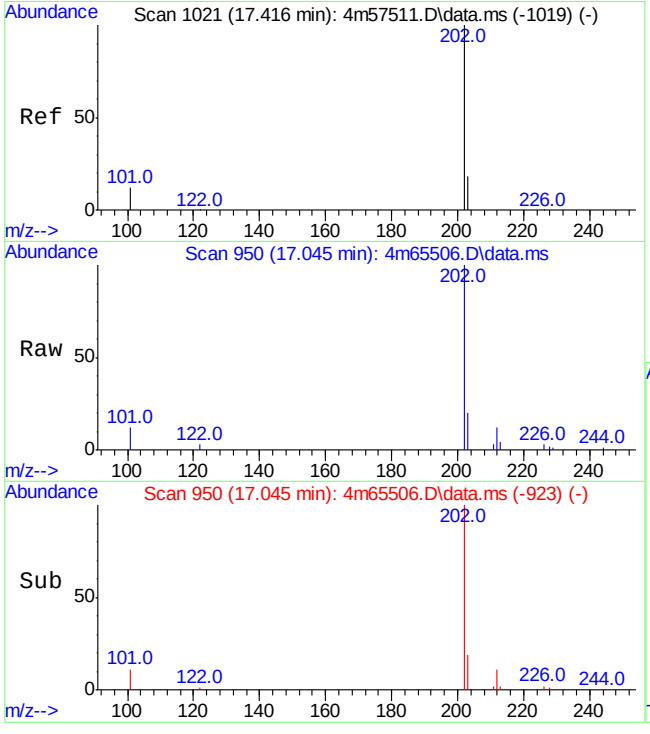


#20
Phenanthrene
Concen: 0.18 ppm
RT: 14.785 min Scan# 830
Delta R.T. -0.019 min
Lab File: 4m65506.D
Acq: 25 May 2016 12:25 am

Tgt Ion:178 Resp: 26975

Ion	Ratio	Lower	Upper
178	100		
179	10.1	0.0	47.4
176	21.0	0.0	44.7

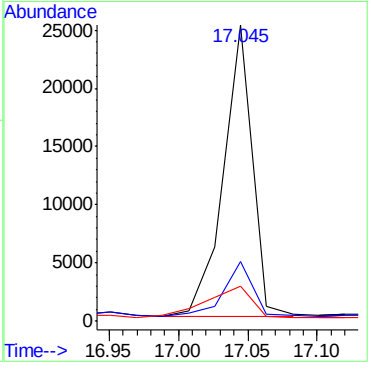




#23
Fluoranthene
Concen: 0.26 ppm
RT: 17.045 min Scan# 950
Delta R.T. -0.000 min
Lab File: 4m65506.D
Acq: 25 May 2016 12:25 am

Tgt Ion:202 Resp: 36611

Ion	Ratio	Lower	Upper
202	100		
203	18.8	0.0	46.3
101	10.6	0.0	45.2



7.1.9

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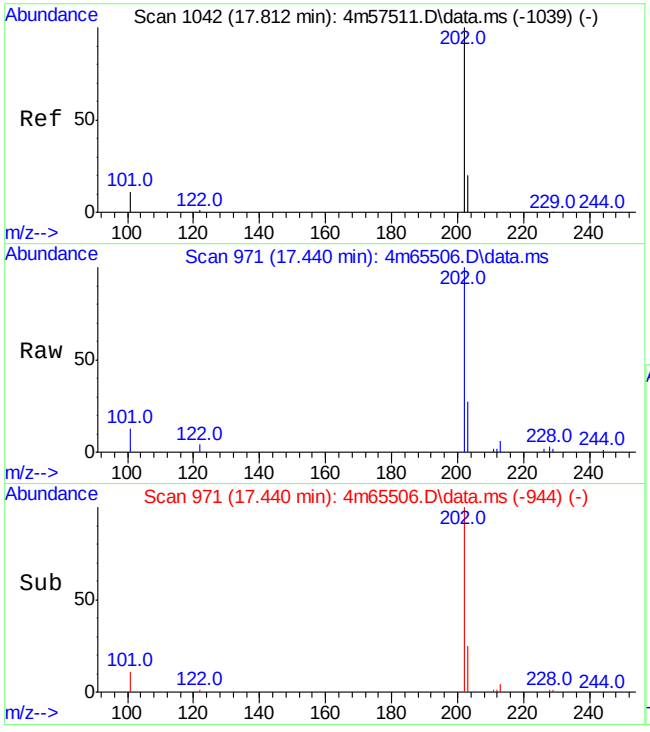
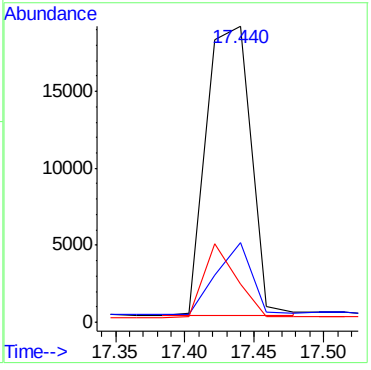
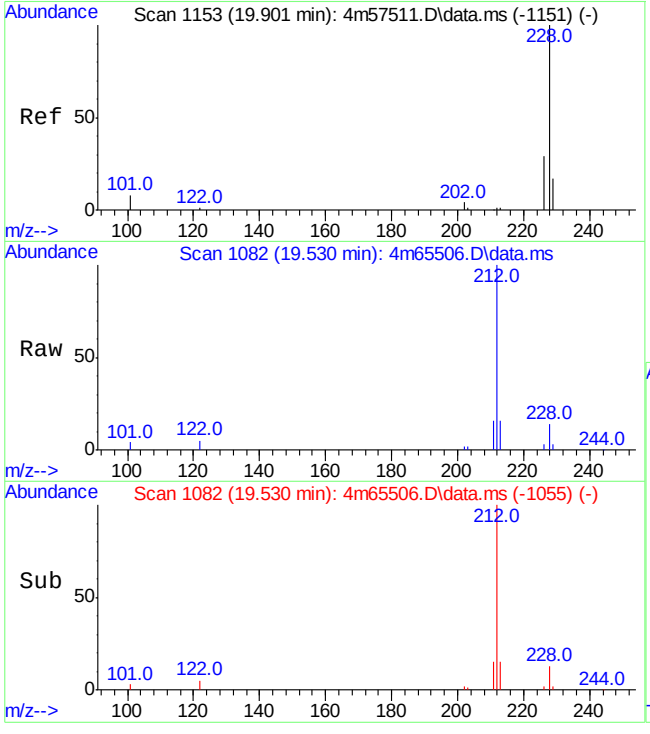


#24
Pyrene
Concen: 0.31 ppm
RT: 17.440 min Scan# 971
Delta R.T. -0.000 min
Lab File: 4m65506.D
Acq: 25 May 2016 12:25 am

Tgt Ion:202 Resp: 42283

Ion	Ratio	Lower	Upper
202	100		
203	24.9	0.0	48.7
101	11.6	0.0	44.7

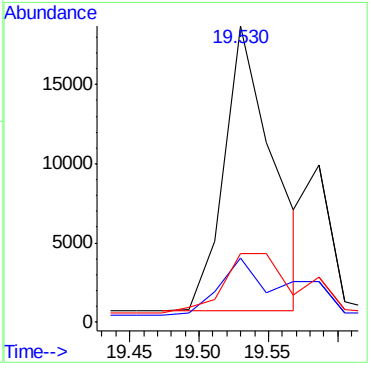


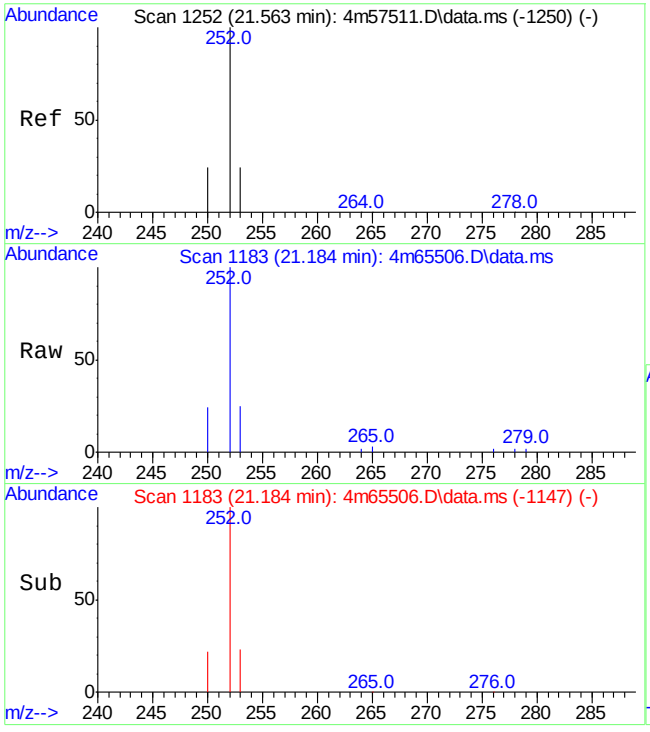


#26
Benzo[a]anthracene
Concen: 0.34 ppm
RT: 19.530 min Scan# 1082
Delta R.T. 0.014 min
Lab File: 4m65506.D
Acq: 25 May 2016 12:25 am

Tgt Ion:228 Resp: 44667

Ion	Ratio	Lower	Upper
228	100		
226	17.3	0.0	60.0
229	21.6	14.3	18.3#

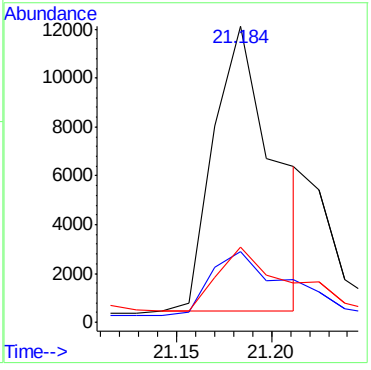


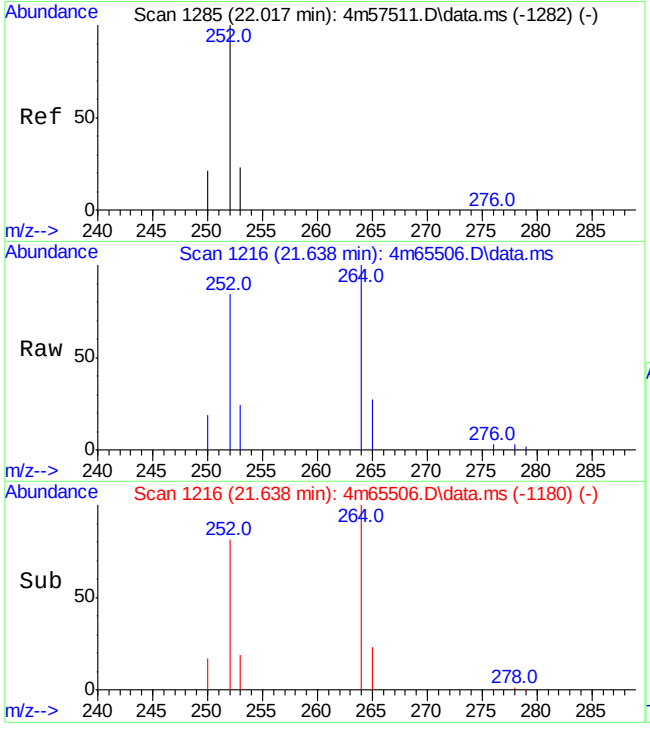


#29
Benzo[b]fluoranthene
Concen: 0.13 ppm
RT: 21.184 min Scan# 1183
Delta R.T. -0.000 min
Lab File: 4m65506.D
Acq: 25 May 2016 12:25 am

Tgt Ion:252 Resp: 26317

Ion	Ratio	Lower	Upper
252	100		
250	21.9	0.0	52.5
253	23.4	0.0	53.1

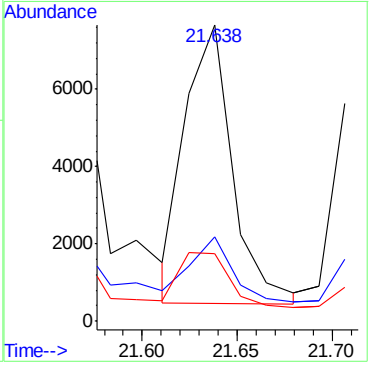




#31
Benzo[a]pyrene
Concen: 0.08 ppm
RT: 21.638 min Scan# 1216
Delta R.T. 0.000 min
Lab File: 4m65506.D
Acq: 25 May 2016 12:25 am

Tgt Ion:252 Resp: 12569

Ion	Ratio	Lower	Upper
252	100		
253	23.3	0.0	50.3
250	20.0	0.0	53.3



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2882\
Data File : 3m61313.D
Acq On : 13 May 2016 2:55 pm
Operator : ashleyd
Sample : jc20098-4
Misc : op93867a,e3m2882,810
ALS Vial : 20 Sample Multiplier: 1

Quant Time: May 13 15:32:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 12 12:34:26 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.426	150	433634	4.00	ppm	0.06
14) Fluorene-d10	13.430	176	669093	4.00	ppm	0.06
21) Fluoranthene-d10	17.654	212	1055938	4.00	ppm	0.06
31) Benzo(a)pyrene-d12	22.258	264	885931	4.00	ppm	0.06
System Monitoring Compounds						
3) 2-Fluorophenol	4.399	112	1306143	24.08	ppm	0.08
Spiked Amount 50.000			Recovery = 48.16%			
4) Phenol-d5	6.000	99	1557094	17.35	ppm	0.07
Spiked Amount 50.000			Recovery = 34.70%			
7) Nitrobenzene-d5	7.549	82	2742265	32.85	ppm	0.06
Spiked Amount 50.000			Recovery = 65.70%			
15) 2-Fluorobiphenyl	11.114	172	6949306	37.80	ppm	0.08
Spiked Amount 50.000			Recovery = 75.60%			
20) 2,4,6-Tribromophenol	13.995	330	843302	40.27	ppm	0.07
Spiked Amount 50.000			Recovery = 80.54%			
28) Terphenyl-d14	18.473	244	7252421	47.35	ppm	0.06
Spiked Amount 50.000			Recovery = 94.70%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.143	88	644627	28.77	ppm #	50
25) Anthracene	15.506	178	550930	2.41	ppm	100

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

7.1.10

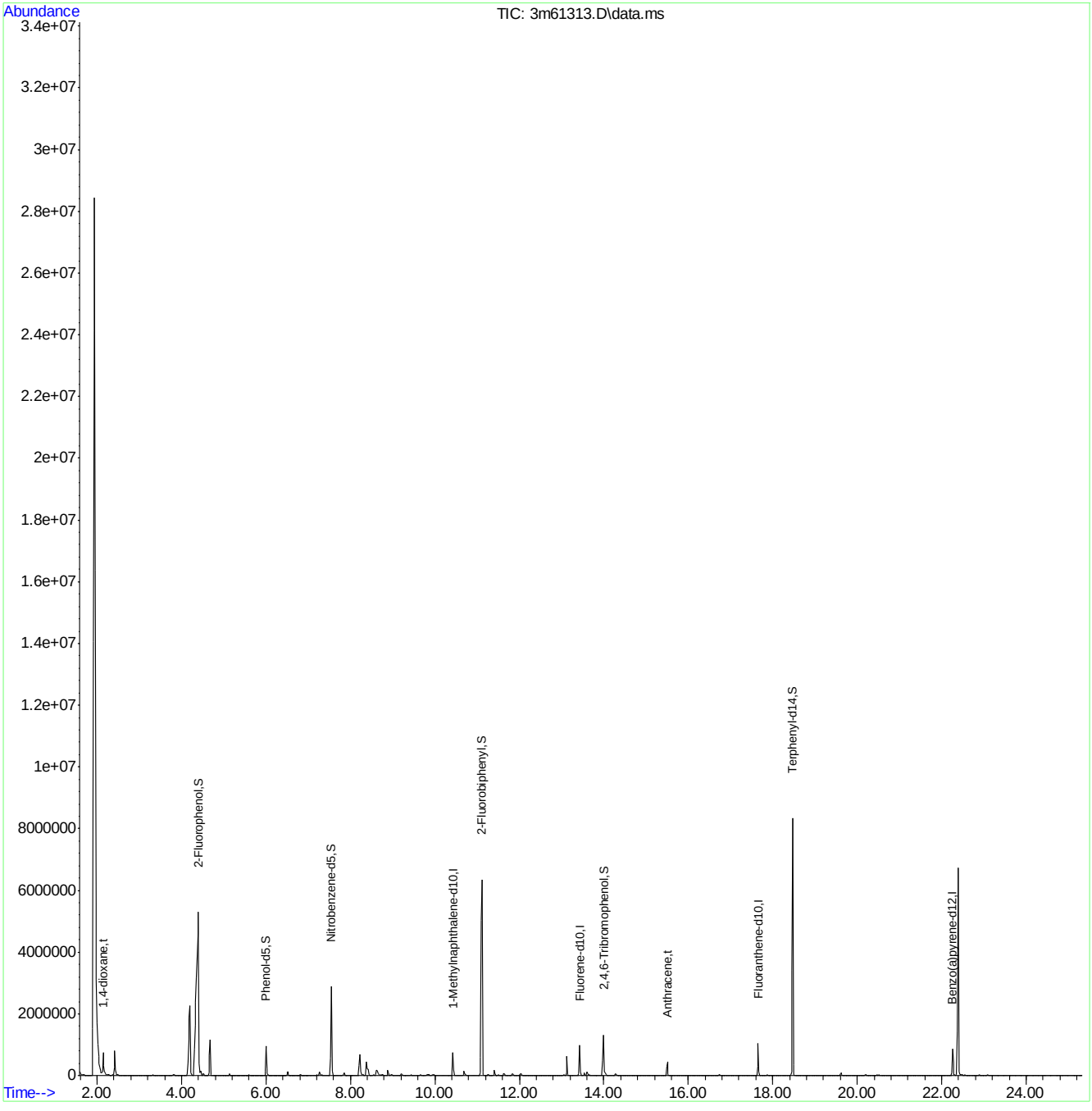
7

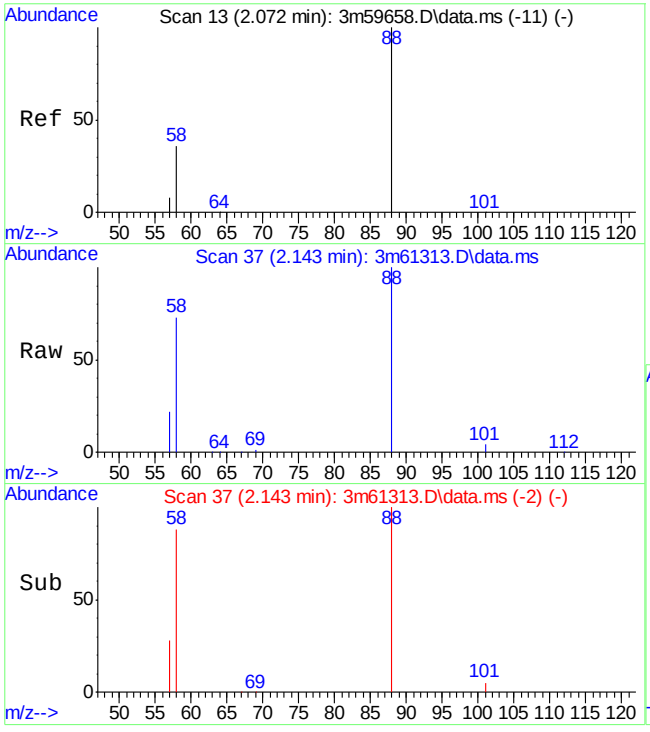
SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2882\
Data File : 3m61313.D
Acq On : 13 May 2016 2:55 pm
Operator : ashleyd
Sample : jc20098-4
Misc : op93867a,e3m2882,810
ALS Vial : 20 Sample Multiplier: 1

Quant Time: May 13 15:32:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 12 12:34:26 2016
Response via : Initial Calibration

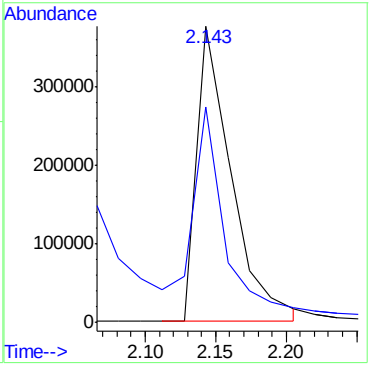


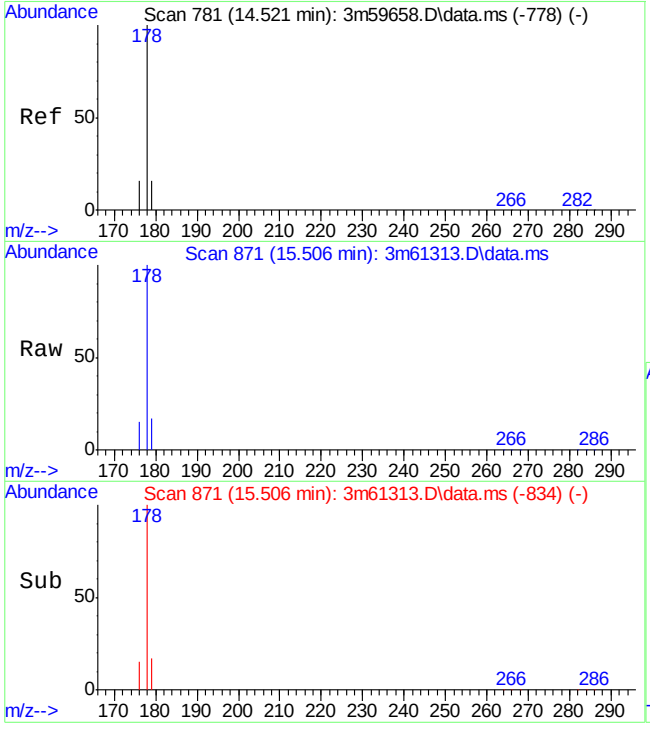


#2
1,4-dioxane
Concen: 28.77 ppm
RT: 2.143 min Scan# 37
Delta R.T. 0.042 min
Lab File: 3m61313.D
Acq: 13 May 2016 2:55 pm

Tgt Ion: 88 Resp: 644627

Ion	Ratio	Lower	Upper
88	100		
58	66.3	16.7	56.7#

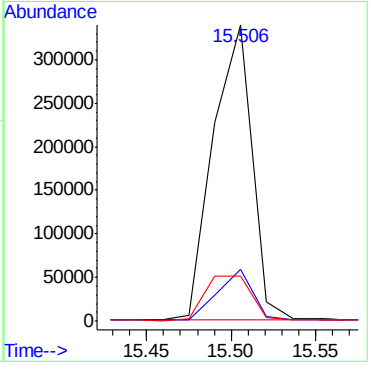




#25
Anthracene
Concen: 2.41 ppm
RT: 15.506 min Scan# 871
Delta R.T. 0.066 min
Lab File: 3m61313.D
Acq: 13 May 2016 2:55 pm

Tgt Ion:178 Resp: 550930

Ion	Ratio	Lower	Upper
178	100		
179	17.2	0.0	46.8
176	15.1	0.0	45.1



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2882\
Data File : 3m61314.D
Acq On : 13 May 2016 3:28 pm
Operator : ashleyd
Sample : jc20098-5
Misc : op93867a,e3m2882,800
ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 13 16:02:01 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 12 12:34:26 2016
Response via : Initial Calibration

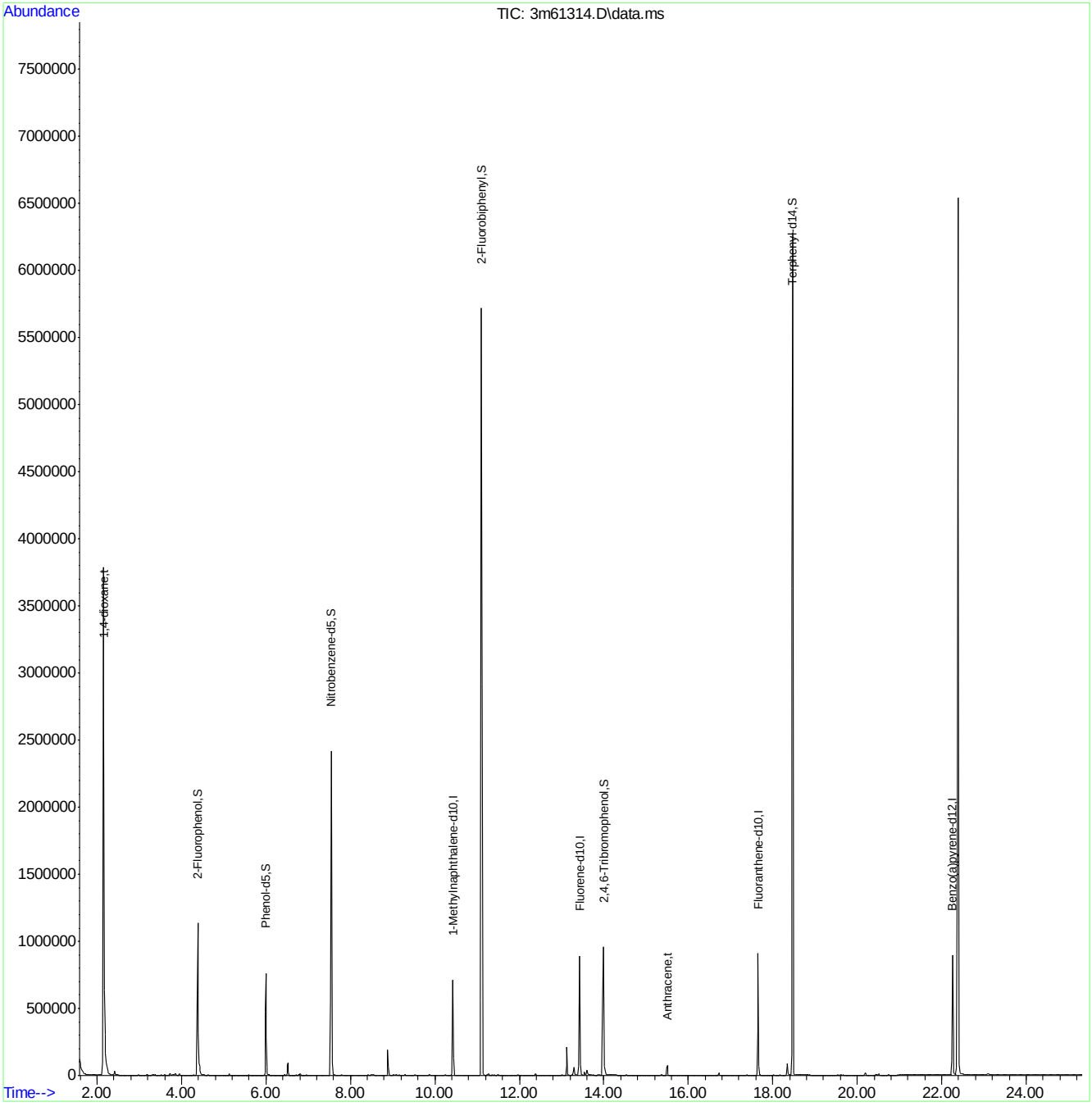
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.426	150	401544	4.00	ppm	0.06
14) Fluorene-d10	13.430	176	608350	4.00	ppm	0.06
21) Fluoranthene-d10	17.654	212	950958	4.00	ppm	0.06
31) Benzo(a)pyrene-d12	22.259	264	830700	4.00	ppm	0.06
System Monitoring Compounds						
3) 2-Fluorophenol	4.384	112	996159	19.83	ppm	0.07
Spiked Amount 50.000			Recovery = 39.66%			
4) Phenol-d5	6.000	99	1116068	13.43	ppm	0.07
Spiked Amount 50.000			Recovery = 26.86%			
7) Nitrobenzene-d5	7.550	82	2310077	29.89	ppm	0.06
Spiked Amount 50.000			Recovery = 59.78%			
15) 2-Fluorobiphenyl	11.099	172	5028093	30.08	ppm	0.06
Spiked Amount 50.000			Recovery = 60.16%			
20) 2,4,6-Tribromophenol	13.995	330	690922	36.29	ppm	0.07
Spiked Amount 50.000			Recovery = 72.58%			
28) Terphenyl-d14	18.473	244	6070097	44.00	ppm	0.06
Spiked Amount 50.000			Recovery = 88.00%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.159	88	3949127	190.35	ppm #	65
25) Anthracene	15.506	178	105053	0.51	ppm	100

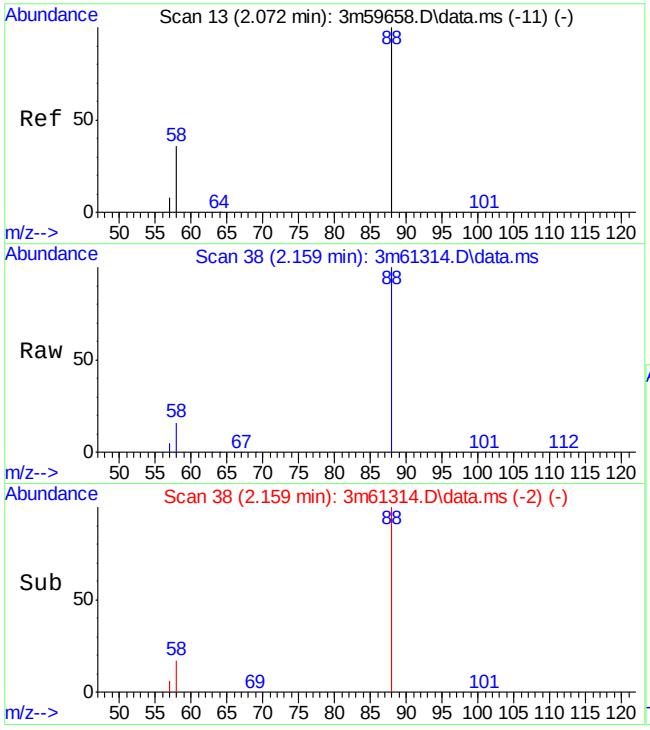
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2882\
Data File : 3m61314.D
Acq On : 13 May 2016 3:28 pm
Operator : ashleyd
Sample : jc20098-5
Misc : op93867a,e3m2882,800
ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 13 16:02:01 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 12 12:34:26 2016
Response via : Initial Calibration

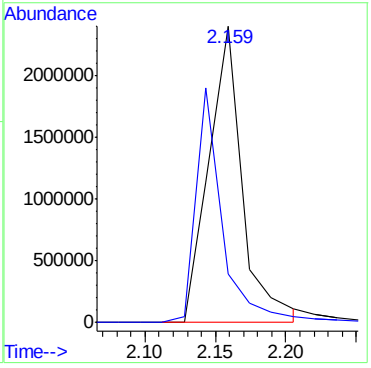


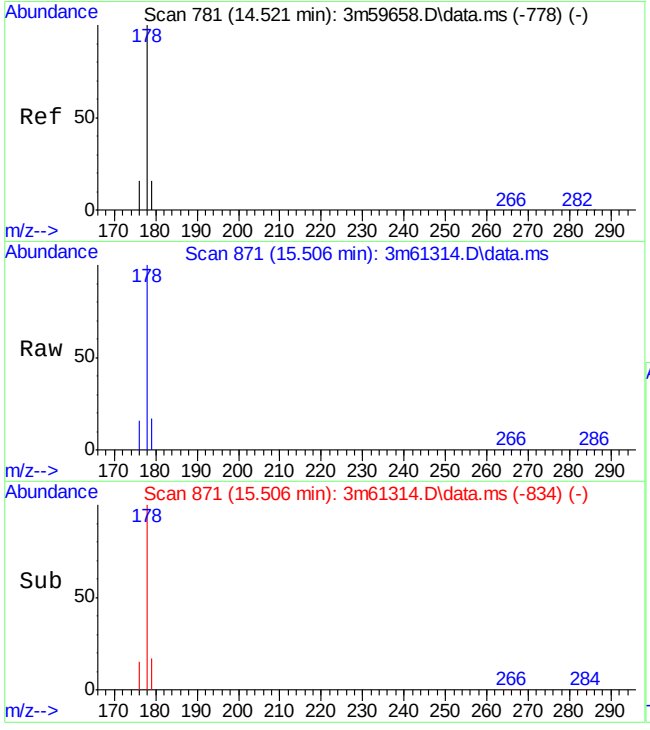


#2
1,4-dioxane
Concen: 190.35 ppm
RT: 2.159 min Scan# 38
Delta R.T. 0.058 min
Lab File: 3m61314.D
Acq: 13 May 2016 3:28 pm

Tgt Ion: 88 Resp: 3949127

Ion	Ratio	Lower	Upper
88	100		
58	15.8	16.7	56.7#

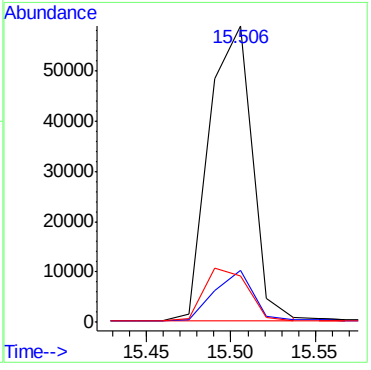




#25
Anthracene
Concen: 0.51 ppm
RT: 15.506 min Scan# 871
Delta R.T. 0.066 min
Lab File: 3m61314.D
Acq: 13 May 2016 3:28 pm

Tgt Ion:178 Resp: 105053

Ion	Ratio	Lower	Upper
178	100		
179	16.9	0.0	46.8
176	15.3	0.0	45.1



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6610\F157064.D Vial: 7
Acq On : 13 May 2016 11:31 am Operator: brittanp
Sample : op93867-mb1 Inst : MSF
Misc : op93867,ef6610,1000,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 13 11:53:13 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed May 11 16:35:52 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.76	152	569812	40.00	ppm	-0.05
24) Naphthalene-d8	5.68	136	2281031	40.00	ppm	-0.05
47) Acenaphthene-d10	7.11	164	1367663	40.00	ppm	-0.07
69) Phenanthrene-d10	9.01	188	2234858	40.00	ppm	-0.09
83) Chrysene-d12	14.27	240	2110976	40.00	ppm	-0.11
92) Perylene-d12	17.33	264	1998042	40.00	ppm	-0.04
102) 1,4-Dichlorobenzene-d4b	4.76	152	569812	40.00	ppm	-0.05
104) Naphthalene-d8b	5.68	136	2281031	40.00	ppm	-0.05
106) Acenaphthene-d10b	7.11	164	1367663	40.00	ppm	-0.07
108) Phenanthrene-d10b	9.01	188	2234858	40.00	ppm	-0.09
110) Chrysene-d12b	14.27	240	2110976	40.00	ppm	-0.11

System Monitoring Compounds

5) 2-Fluorophenol	3.81	112	437720	21.84	ppm	-0.02
Spiked Amount 50.000			Recovery = 43.68%			
8) Phenol-d5	4.54	99	362889	14.89	ppm	0.00
Spiked Amount 50.000			Recovery = 29.78%			
25) Nitrobenzene-d5	5.16	82	863970	40.56	ppm	-0.06
Spiked Amount 50.000			Recovery = 81.12%			
51) 2-Fluorobiphenyl	6.49	172	1484663	34.01	ppm	-0.06
Spiked Amount 50.000			Recovery = 68.02%			
73) 2,4,6-Tribromophenol	8.02	330	209837	46.01	ppm	-0.07
Spiked Amount 50.000			Recovery = 92.02%			
85) Terphenyl-d14	12.06	244	1816617	42.37	ppm	-0.11
Spiked Amount 50.000			Recovery = 84.74%			

Target Compounds Qvalue

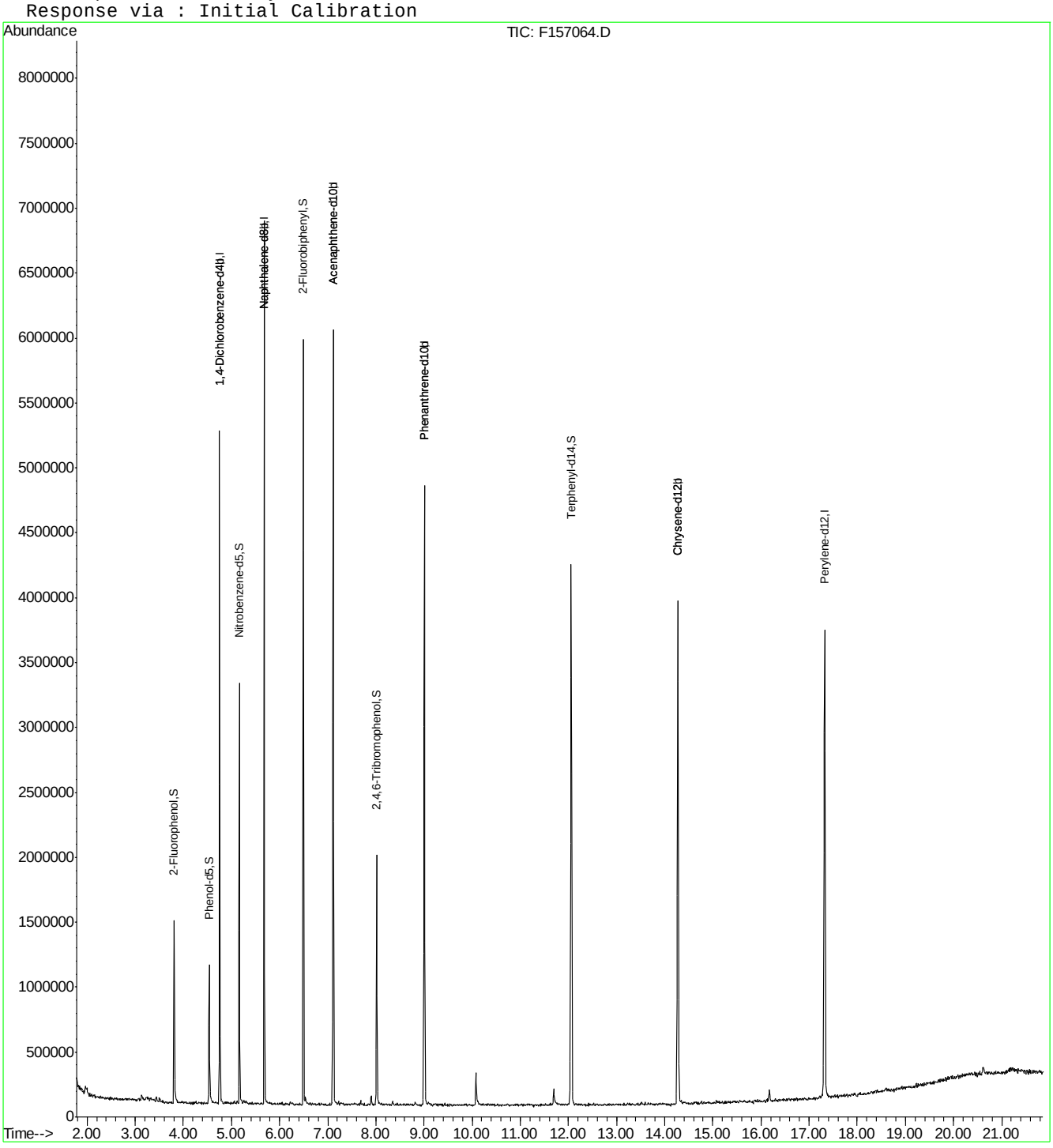
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6610\F157064.D Vial: 7
Acq On : 13 May 2016 11:31 am Operator: brittanp
Sample : op93867-mb1 Inst : MSF
Misc : op93867,ef6610,1000,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 13 12:36 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed May 11 16:35:52 2016
Response via : Initial Calibration



F157064.D MF6563.M Fri May 13 12:36:27 2016 RT1 Page 2

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\DATA\2P2594\
Data File : 2p59404.D
Acq On : 20 May 2016 9:01 pm
Operator : seanb1
Sample : op94085-mb1
Misc : op94085,e2p2594,30.0
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 23 12:59:01 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2557.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon May 23 12:20:18 2016
Response via : Initial Calibration

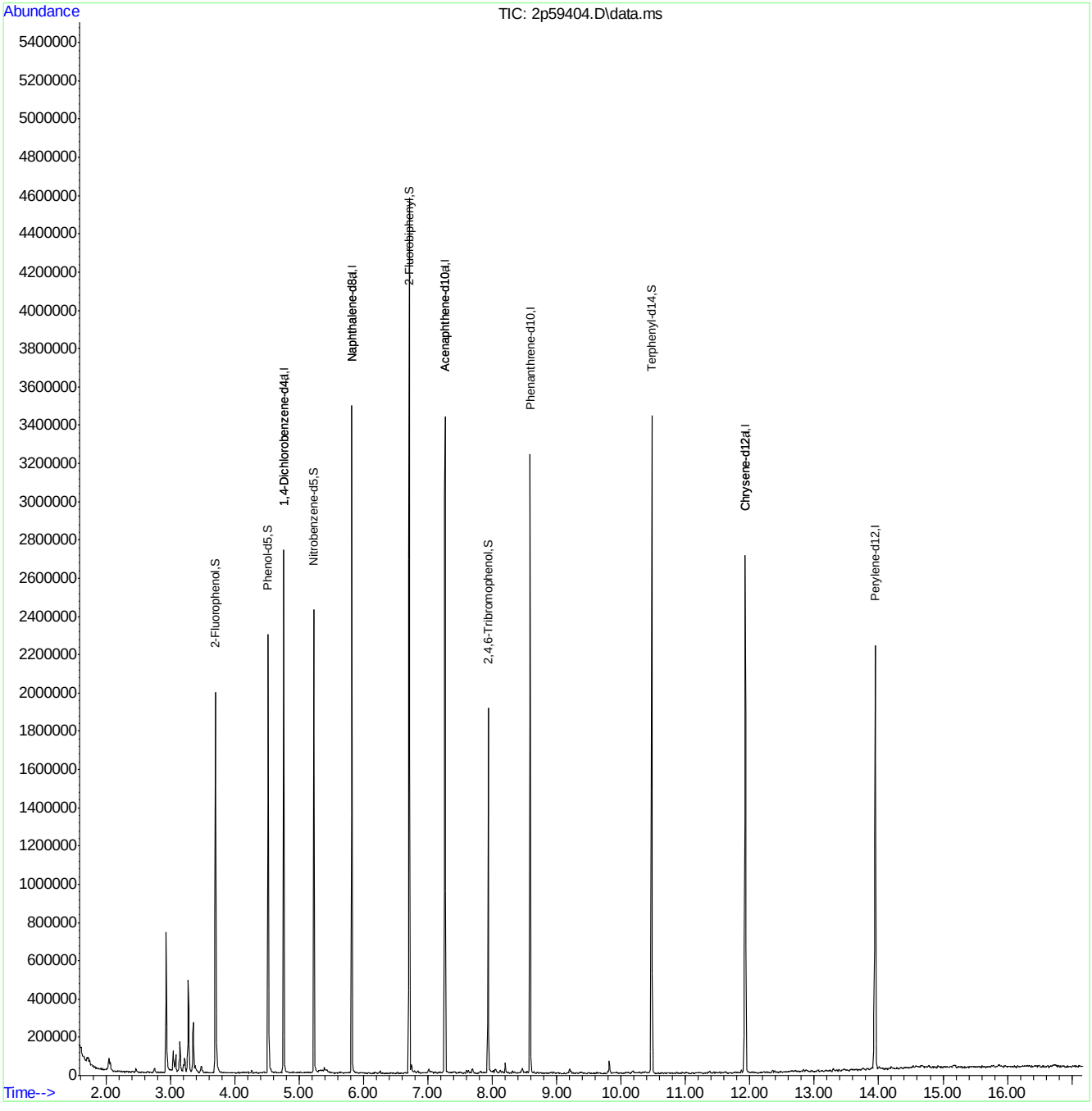
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.764	152	264186	40.00	ppm	0.00
24) Naphthalene-d8	5.818	136	963690	40.00	ppm	0.00
47) Acenaphthene-d10	7.267	164	580818	40.00	ppm	0.00
69) Phenanthrene-d10	8.588	188	1020566	40.00	ppm	0.00
83) Chrysene-d12	11.931	240	1036321	40.00	ppm	0.00
92) Perylene-d12	13.947	264	903920	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.764	152	264186	40.00	ppm	0.00
104) Naphthalene-d8a	5.818	136	963690	40.00	ppm	# 0.00
106) Acenaphthene-d10a	7.267	164	580818	40.00	ppm	0.00
109) Chrysene-d12a	11.931	240	1036321	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.700	112	376831	35.21	ppm	0.02
Spiked Amount 50.000	Range 11 - 58		Recovery = 70.42%#			
8) Phenol-d5	4.518	99	463195	36.94	ppm	0.00
Spiked Amount 50.000	Range 10 - 59		Recovery = 73.88%#			
25) Nitrobenzene-d5	5.229	82	545102	57.37	ppm	0.05
Spiked Amount 50.000	Range 19 - 61		Recovery = 114.74%#			
51) 2-Fluorobiphenyl	6.711	172	888688	49.18	ppm	-0.01
Spiked Amount 50.000	Range 21 - 58		Recovery = 98.36%#			
73) 2,4,6-Tribromophenol	7.936	330	111384	49.16	ppm	0.00
Spiked Amount 50.000	Range 12 - 68		Recovery = 98.32%#			
85) Terphenyl-d14	10.476	244	962368	46.13	ppm	0.07
Spiked Amount 50.000	Range 16 - 65		Recovery = 92.26%#			
Target Compounds						Qvalue

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

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\DATA\2P2594\
Data File : 2p59404.D
Acq On : 20 May 2016 9:01 pm
Operator : seanb1
Sample : op94085-mb1
Misc : op94085,e2p2594,30.0
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 23 12:59:01 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2557.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon May 23 12:20:18 2016
Response via : Initial Calibration



SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1227\
Data File : 6p26349.D
Acq On : 25 May 2016 10:45 am
Operator : ariellec
Sample : op94085-mb1
Misc : op94085,e6p1227,30.0
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 25 12:17:56 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuTue May 24 15:05:56 2016
QLast Update : Tue May 24 15:05:56 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.788	152	584789	40.00	ppm	-0.04
24) Naphthalene-d8	5.906	136	2362594	40.00	ppm	-0.05
47) Acenaphthene-d10	7.997	164	1299153	40.00	ppm	-0.02
69) Phenanthrene-d10	10.190	188	2077301	40.00	ppm	-0.03
83) Chrysene-d12	14.378	240	1841521	40.00	ppm	-0.04
92) Perylene-d12	16.496	264	1630129	40.00	ppm	-0.04
102) 1,4-Dichlorobenzene-d4a	4.788	152	584789	40.00	ppm	-0.04
104) Acenaphthene-d10a	7.997	164	1299153	40.00	ppm	-0.06
106) Phenanthrene-d10a	10.190	188	2077301	40.00	ppm	-0.06
110) Chrysene-d12a	14.378	240	1841521	40.00	ppm	-0.04
112) Naphthalene-d8a	5.906	136	2362594	40.00	ppm	-0.05
114) Chrysene-d12b	14.378	240	1841521	40.00	ppm	-0.04
System Monitoring Compounds						
5) 2-Fluorophenol	3.815	112	882242	39.59	ppm	-0.01
Spiked Amount 50.000			Recovery = 79.18%			
8) Phenol-d5	4.531	99	1130622	38.76	ppm	-0.02
Spiked Amount 50.000			Recovery = 77.52%			
25) Nitrobenzene-d5	5.243	82	1101657	41.82	ppm	-0.04
Spiked Amount 50.000			Recovery = 83.64%			
51) 2-Fluorobiphenyl	7.115	172	1879043	44.87	ppm	-0.02
Spiked Amount 50.000			Recovery = 89.74%			
73) 2,4,6-Tribromophenol	9.142	330	189384	36.38	ppm	0.00
Spiked Amount 50.000			Recovery = 72.76%			
85) Terphenyl-d14	12.747	244	1677896	43.49	ppm	-0.04
Spiked Amount 50.000			Recovery = 86.98%			
108) o-Terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
109) 1-Chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

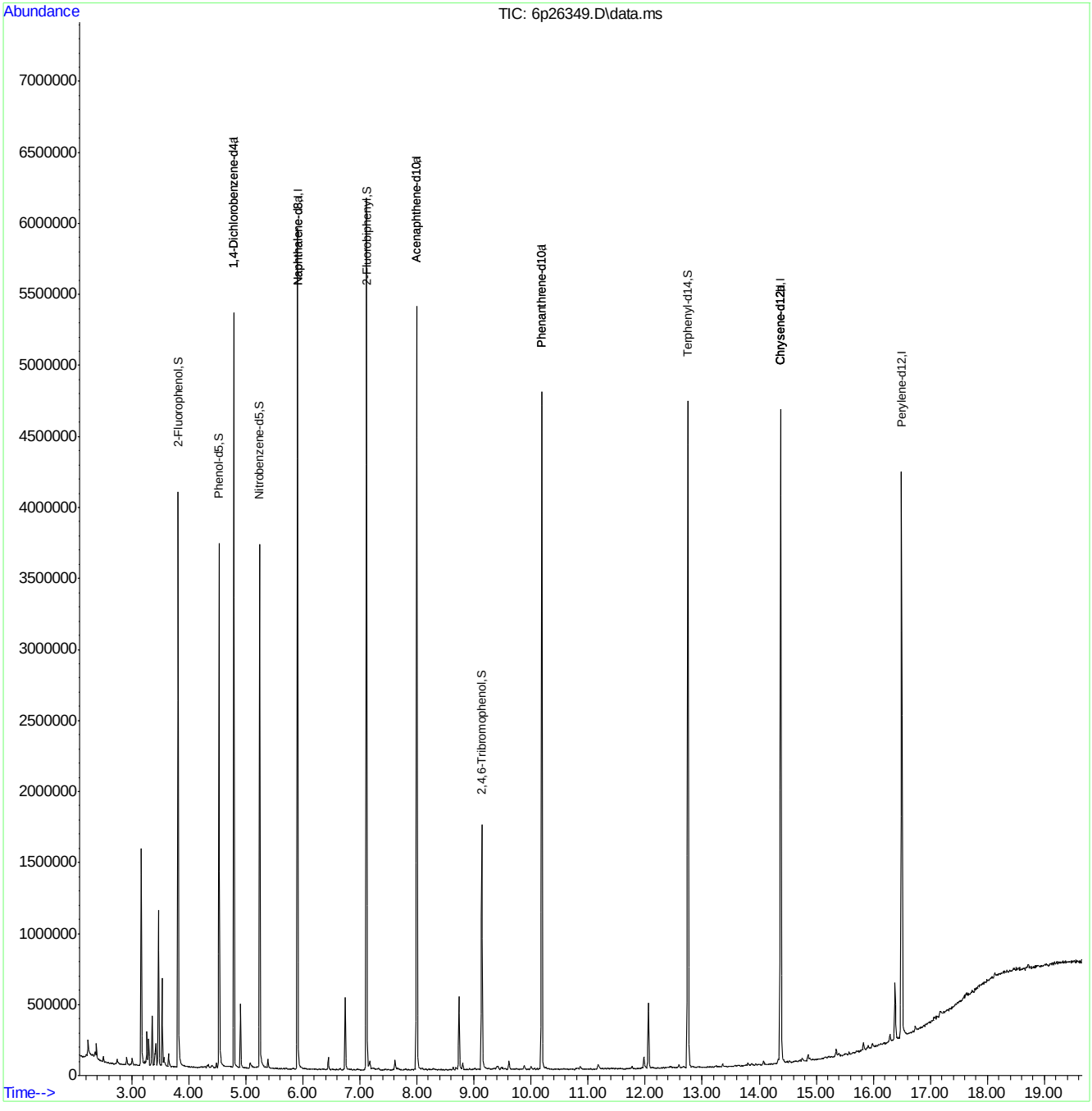
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1227\
Data File : 6p26349.D
Acq On : 25 May 2016 10:45 am
Operator : ariellec
Sample : op94085-mb1
Misc : op94085,e6p1227,30.0
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 25 12:17:56 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuTue May 24 15:05:56 2016
QLast Update : Tue May 24 15:05:56 2016
Response via : Initial Calibration



SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2882\
Data File : 3m61311.D
Acq On : 13 May 2016 1:50 pm
Operator : ashleyd
Sample : op93867a-mb1
Misc : op93867a,e3m2882,1000
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 13 14:29:08 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 12 12:34:26 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.426	150	401392	4.00	ppm	0.06
14) Fluorene-d10	13.430	176	584248	4.00	ppm	0.06
21) Fluoranthene-d10	17.654	212	931354	4.00	ppm	0.06
31) Benzo(a)pyrene-d12	22.258	264	809694	4.00	ppm	0.06
System Monitoring Compounds						
3) 2-Fluorophenol	4.384	112	1191083	23.72	ppm	0.07
Spiked Amount 50.000			Recovery = 47.44%			
4) Phenol-d5	6.000	99	1240477	14.93	ppm	0.07
Spiked Amount 50.000			Recovery = 29.86%			
7) Nitrobenzene-d5	7.549	82	2751281	35.61	ppm	0.06
Spiked Amount 50.000			Recovery = 71.22%			
15) 2-Fluorobiphenyl	11.098	172	5631732	35.08	ppm	0.06
Spiked Amount 50.000			Recovery = 70.16%			
20) 2,4,6-Tribromophenol	13.995	330	702409	38.41	ppm	0.07
Spiked Amount 50.000			Recovery = 76.82%			
28) Terphenyl-d14	18.473	244	7180785	53.15	ppm	0.06
Spiked Amount 50.000			Recovery = 106.30%			

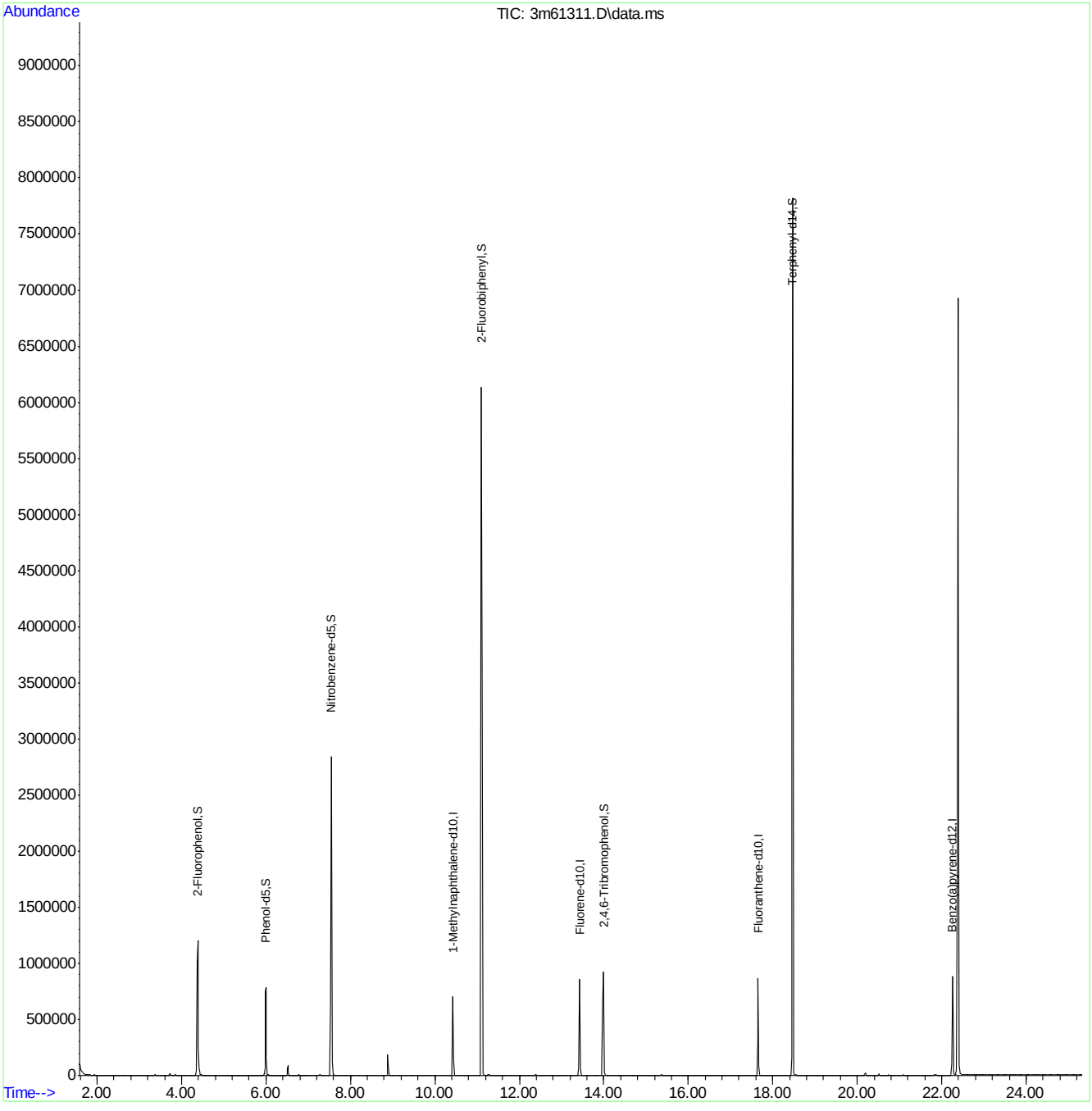
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2882\
Data File : 3m61311.D
Acq On : 13 May 2016 1:50 pm
Operator : ashleyd
Sample : op93867a-mb1
Misc : op93867a,e3m2882,1000
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 13 14:29:08 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 12 12:34:26 2016
Response via : Initial Calibration



SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2931\
Data File : 4m65501.D
Acq On : 24 May 2016 9:53 pm
Operator : linseyk
Sample : op94085a-mb1
Misc : op94085a,e4m2931,30.0
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 25 08:54:35 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2930SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue May 24 15:08:32 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	9.863	152	229255	4.00	ppm	0.00
12) Fluorene-d10	12.827	176	505871	4.00	ppm	0.00
22) Fluoranthene-d10	17.012	212	895554	4.00	ppm	-0.01
28) Benzo(a)pyrene-d12	21.602	264	628466	4.00	ppm	0.00
35) 1-Methylnaphthalene-d10a	9.863	152	229255	4.00	ppm	0.00
38) Fluorene-d10a	12.827	176	505871	4.00	ppm	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	4.121	112	2549183	59.74	ppm	0.00
Spiked Amount 50.000	Range 11 - 58		Recovery = 119.48%#			
3) Phenol-d5	5.512	99	4454388	59.40	ppm	0.00
Spiked Amount 50.000			Recovery = 118.80%			
6) Nitrobenzene-d5	7.038	82	3724057	62.53	ppm	0.00
Spiked Amount 50.000			Recovery = 125.06%			
11) 2-Fluorobiphenyl	10.507	172	5813506	60.76	ppm	0.00
Spiked Amount 50.000			Recovery = 121.52%			
17) 2,4,6-Tribromophenol	13.376	330	1189274	59.75	ppm	0.00
Spiked Amount 50.000			Recovery = 119.50%			
25) Terphenyl-d14	17.822	244	6433243	62.91	ppm	0.00
Spiked Amount 50.000			Recovery = 125.82%			

Target Compounds Qvalue

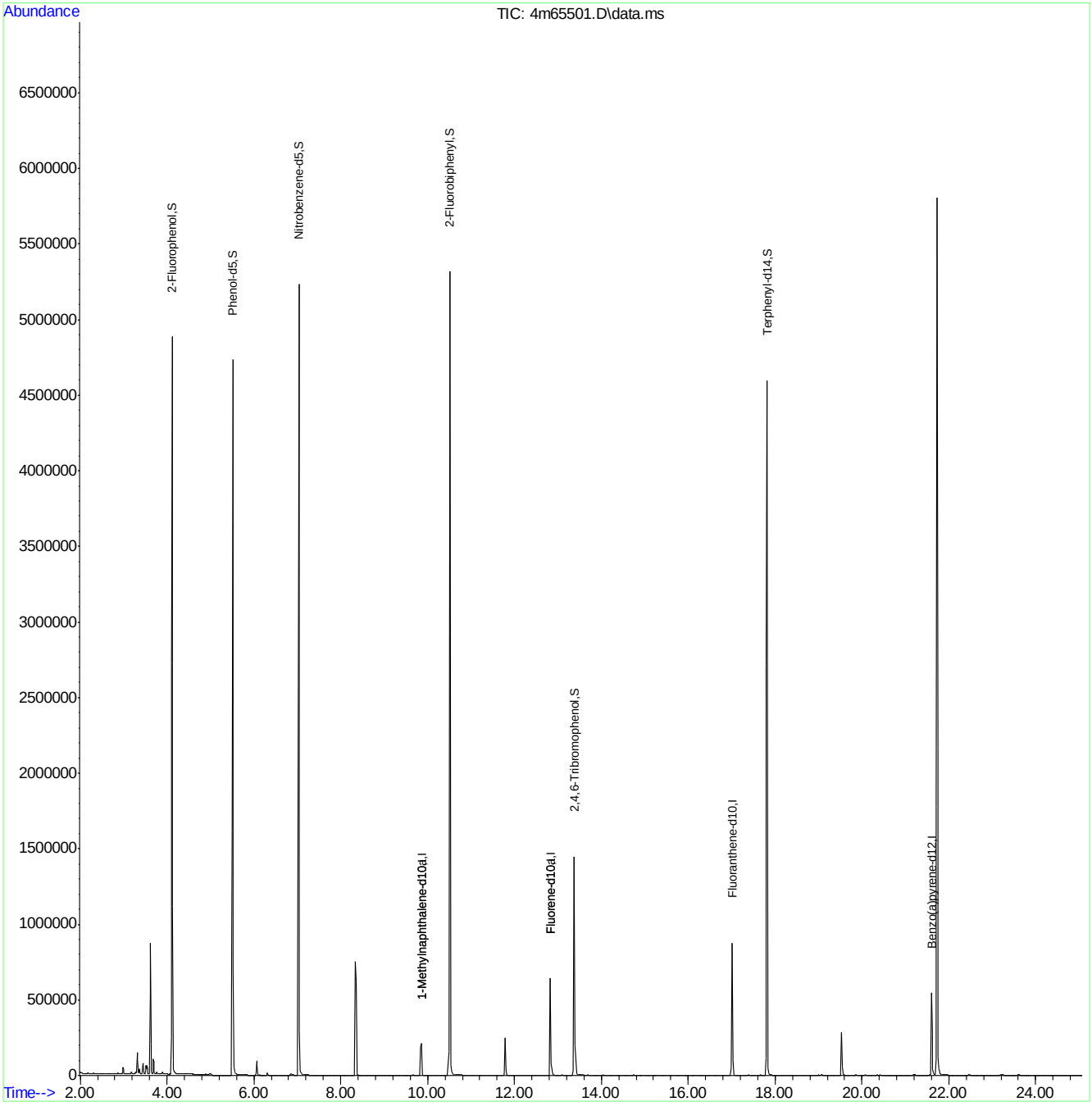
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2931\
Data File : 4m65501.D
Acq On : 24 May 2016 9:53 pm
Operator : linseyk
Sample : op94085a-mb1
Misc : op94085a,e4m2931,30.0
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 25 08:54:35 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2930SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue May 24 15:08:32 2016
Response via : Initial Calibration



M4M2930SIM.M Wed May 25 08:54:50 2016 MANAGER

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6610\F157065.D Vial: 8
Acq On : 13 May 2016 11:59 am Operator: brittanp
Sample : op93867-bs1 Inst : MSF
Misc : op93867,ef6610,1000,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 13 16:38:13 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri May 13 16:38:09 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.76	152	622516	40.00	ppm	0.00
24) Naphthalene-d8	5.68	136	2743553	40.00	ppm	-0.05
47) Acenaphthene-d10	7.11	164	1418075	40.00	ppm	-0.07
69) Phenanthrene-d10	9.01	188	2246869	40.00	ppm	-0.09
83) Chrysene-d12	14.28	240	2011144	40.00	ppm	-0.10
92) Perylene-d12	17.32	264	1829999	40.00	ppm	-0.04
102) 1,4-Dichlorobenzene-d4b	4.76	152	622516	40.00	ppm	-0.05
104) Naphthalene-d8b	5.68	136	2743553	40.00	ppm	-0.05
106) Acenaphthene-d10b	7.11	164	1418075	40.00	ppm	-0.07
108) Phenanthrene-d10b	9.01	188	2246869	40.00	ppm	-0.09
110) Chrysene-d12b	14.28	240	2011144	40.00	ppm	-0.10
System Monitoring Compounds						
5) 2-Fluorophenol	3.81	112	522173	23.85	ppm	-0.02
Spiked Amount 50.000			Recovery = 47.70%			
8) Phenol-d5	4.53	99	481132	18.07	ppm	-0.01
Spiked Amount 50.000			Recovery = 36.14%			
25) Nitrobenzene-d5	5.16	82	991994	38.72	ppm	-0.06
Spiked Amount 50.000			Recovery = 77.44%			
51) 2-Fluorobiphenyl	6.49	172	1707463	37.72	ppm	-0.06
Spiked Amount 50.000			Recovery = 75.44%			
73) 2,4,6-Tribromophenol	8.01	330	211825	46.20	ppm	-0.07
Spiked Amount 50.000			Recovery = 92.40%			
85) Terphenyl-d14	12.06	244	1671285	40.92	ppm	-0.11
Spiked Amount 50.000			Recovery = 81.84%			

Target Compounds						Qvalue
2) 1,4-Dioxane	2.34	88	171891	17.83	ppm	98
3) Pyridine	2.66	79	365863	16.11	ppm	99
4) N-Nitrosodimethylamine	2.61	42	216510	26.50	ppm	96
6) Indene	4.94	116	1485165	40.31	ppm	99
7) Cumene	4.16	105	1774558	35.86	ppm	95
9) Phenol	4.54	94	551938	19.48	ppm	79
10) Aniline	4.51	93	785014	25.31	ppm	80
11) bis(2-Chloroethyl)ether	4.56	93	806471	39.56	ppm	95
12) 2-Chlorophenol	4.62	128	783199	33.89	ppm	97
13) Decane	4.63	43	487362	24.51	ppm	88
14) 1,3-Dichlorobenzene	4.71	146	781921	30.51	ppm	100
15) 1,4-Dichlorobenzene	4.77	146	818528	32.01	ppm	100
16) Benzyl alcohol	4.87	108	479802	32.56	ppm #	71
17) 1,2-Dichlorobenzene	4.88	146	786219	32.70	ppm	99
18) Acetophenone	5.05	105	1233696	44.28	ppm	93
19) 2-Methylphenol	4.97	108	700329	35.38	ppm	99
20) 2,2'-oxybis(1-Chloropropan	4.96	121	243936	33.19	ppm	96
21) 3&4-Methylphenol	5.08	108	700241	34.49	ppm	100
22) n-Nitroso-di-n-propylamine	5.05	70	676730	44.99	ppm	94
23) Hexachloroethane	5.13	201	243341	30.72	ppm	88
26) Nitrobenzene	5.18	77	1028789	38.34	ppm	84
27) Quinoline	5.94	129	1786191	33.69	ppm	98
28) Isophorone	5.35	82	1810635	39.51	ppm	96

(#) = qualifier out of range (m) = manual integration
F157065.D MF6563.M Fri May 13 16:41:46 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6610\F157065.D Vial: 8
Acq On : 13 May 2016 11:59 am Operator: brittanp
Sample : op93867-bs1 Inst : MSF
Misc : op93867,ef6610,1000,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 13 16:38:13 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri May 13 16:38:09 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
29) 2-Nitrophenol	5.41	139	435338	31.27	ppm		98
30) 2,4-Dimethylphenol	5.45	107	845270	38.55	ppm		100
31) Benzoic acid	5.54	105	321425	17.53	ppm		96
32) bis(2-Chloroethoxy)methane	5.50	93	960266	33.25	ppm		97
33) 2,4-Dichlorophenol	5.60	162	689511	31.49	ppm		91
34) 2,6-Dichlorophenol	5.75	162	661541	31.45	ppm		97
36) 1,2,4-Trichlorobenzene	5.64	180	628913	27.78	ppm		97
38) Naphthalene	5.70	128	2469927	32.97	ppm		99
39) 4-Chloroaniline	5.74	127	647805	20.94	ppm		96
40) 2,3-Dichloroaniline	6.43	161	813772	31.90	ppm		98
41) Caprolactam	5.99	55	98121	9.43	ppm		85
42) Hexachlorobutadiene	5.78	225	311541	29.06	ppm		96
43) 4-Chloro-3-methylphenol	6.11	107	825495	38.43	ppm		99
44) 2-Methylnaphthalene	6.20	141	1385917	32.80	ppm		97
45) 1-Methylnaphthalene	6.28	141	1471936	33.85	ppm		98
46) Dimethylnaphthalene	6.72	156	1481462	33.63	ppm		100
48) Hexachlorocyclopentadiene	6.33	237	562459	58.45	ppm		100
49) 2,4,6-Trichlorophenol	6.44	196	480051	39.90	ppm		96
50) 2,4,5-Trichlorophenol	6.49	196	482249	36.40	ppm		98
52) 2-Chloronaphthalene	6.60	162	1509285	36.83	ppm		94
53) Biphenyl	6.58	154	2030198	38.58	ppm		99
54) 2-Nitroaniline	6.69	65	596416	51.36	ppm		91
55) Dimethylphthalate	6.84	163	1851286	40.37	ppm		100
56) Acenaphthylene	6.98	152	2458171	37.01	ppm		99
57) 2,6-Dinitrotoluene	6.91	165	413161	41.68	ppm		86
58) 3-Nitroaniline	7.08	138	340634	27.45	ppm		81
59) Acenaphthene	7.15	153	1637130	39.24	ppm		94
60) 2,4-Dinitrophenol	7.18	184	488122	84.07	ppm	#	59
61) 4-Nitrophenol	7.31	109	185774	31.87	ppm	#	75
62) Dibenzofuran	7.32	168	2256448	39.63	ppm		93
63) 2,4-Dinitrotoluene	7.31	165	569974	42.44	ppm		73
64) 2,3,4,6-Tetrachlorophenol	7.47	232	372048	37.24	ppm		95
65) Diethylphthalate	7.58	149	1854091	40.91	ppm		99
66) Fluorene	7.71	166	1843879	42.08	ppm		98
67) 4-Chlorophenyl-phenylether	7.71	204	797881	41.33	ppm		94
68) 4-Nitroaniline	7.75	138	458981	36.63	ppm		97
70) 4,6-Dinitro-2-methylphenol	7.78	198	321351	45.28	ppm		94
71) n-Nitrosodiphenylamine	7.86	169	1204813	37.47	ppm		96
72) 1,2-Diphenylhydrazine	7.91	77	2197897	49.46	ppm		91
74) 4-Bromophenyl-phenylether	8.35	248	438880	40.61	ppm		90
75) Hexachlorobenzene	8.43	284	459524	44.54	ppm		98
76) Pentachlorophenol	8.74	266	267935	39.42	ppm		99
77) Phenanthrene	9.05	178	2611544	40.40	ppm		98
78) Anthracene	9.13	178	2519066	38.93	ppm		99
79) Carbazole	9.41	167	2477524	40.84	ppm		99
80) Di-n-butylphthalate	10.10	149	3156772	41.67	ppm		97
81) Fluoranthene	11.19	202	2613573	40.77	ppm		100
82) Octadecane	8.89	57	1040450	39.56	ppm		90
84) Pyrene	11.63	202	2756217	38.64	ppm		99

(#) = qualifier out of range (m) = manual integration

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6610\F157065.D Vial: 8
Acq On : 13 May 2016 11:59 am Operator: brittanp
Sample : op93867-bs1 Inst : MSF
Misc : op93867,ef6610,1000,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 13 16:38:13 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri May 13 16:38:09 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
86)	Butylbenzylphthalate	13.23	149	1334436	38.09	ppm	93
88)	Benzo[a]anthracene	14.25	228	2342223	38.45	ppm	100
89)	3,3'-Dichlorobenzidine	14.30	252	1174333	55.34	ppm	99
90)	Chrysene	14.33	228	2305353	38.07	ppm	98
91)	bis(2-Ethylhexyl)phthalate	14.63	149	1851869	38.14	ppm	96
93)	Di-n-octylphthalate	16.08	149	3185674	39.73	ppm	100
94)	Benzo[b]fluoranthene	16.57	252	2376139	42.01	ppm	99
95)	Benzo[k]fluoranthene	16.63	252	2256664	40.77	ppm	99
96)	Benzo[a]pyrene	17.21	252	1977604	38.20	ppm	97
97)	Indeno[1,2,3-cd]pyrene	19.26	276	1998800	41.84	ppm	98
99)	Dibenz[a,h]anthracene	19.33	278	2028880	43.90	ppm	97
100)	7,12-Dimethylbenz(a)anthra	16.59	256	1021340	46.25	ppm	98
101)	Benzo[g,h,i]perylene	19.70	276	2128558	41.23	ppm	97
103)	Benzaldehyde	4.43	105	676740	38.60	ppm	96
107)	1,2,4,5-Tetrachlorobenzene	6.34	216	665428	33.73	ppm	96
109)	Atrazine	8.61	200	486059	45.01	ppm	97
111)	Benzidine	11.53	184	463966	13.27	ppm	96

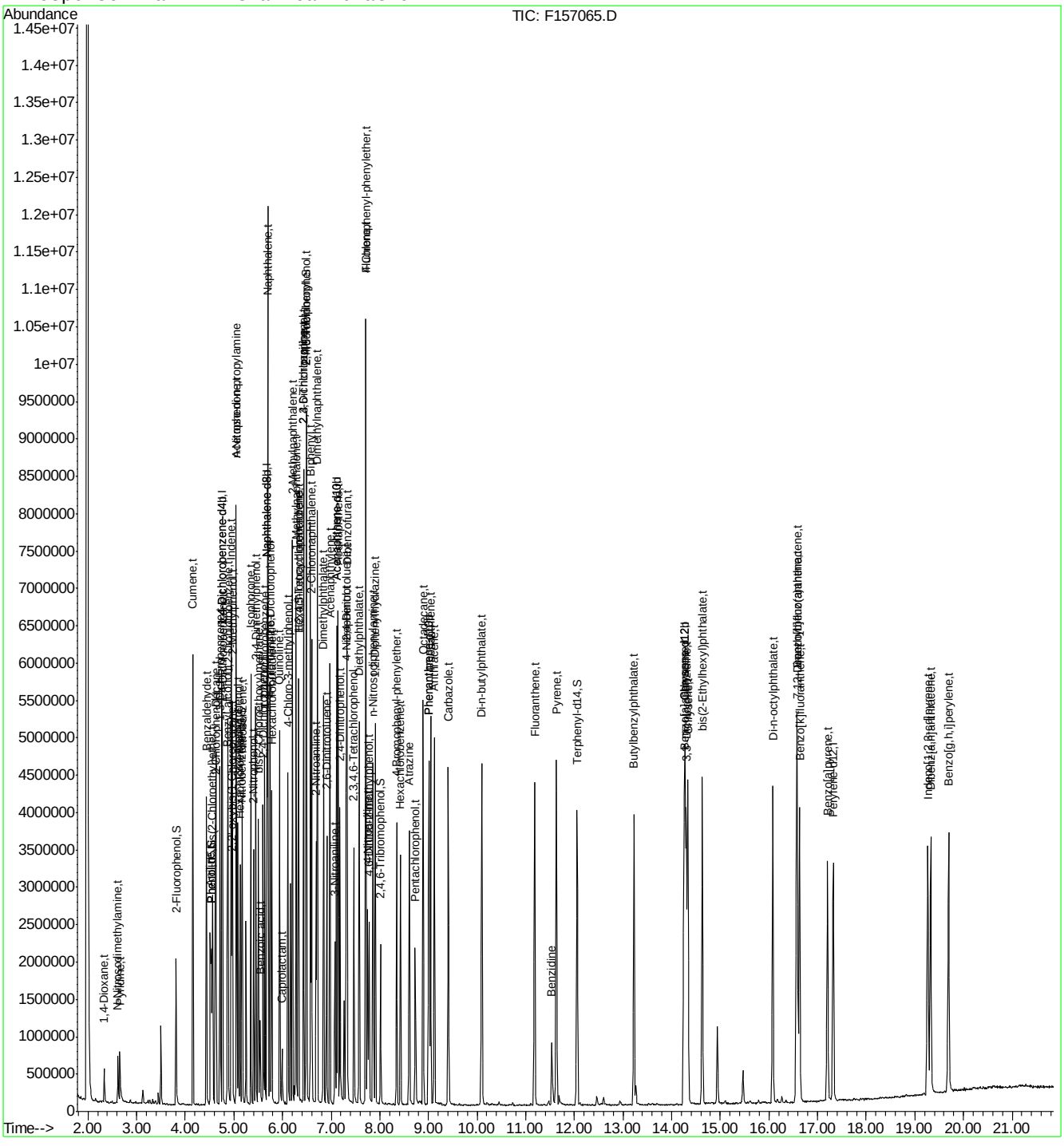
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6610\F157065.D Vial: 8
Acq On : 13 May 2016 11:59 am Operator: brittanp
Sample : op93867-bs1 Inst : MSF
Misc : op93867,ef6610,1000,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 13 16:38 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri May 13 16:38:09 2016
Response via : Initial Calibration



SGS ACCUTEST JC20098

Manual Integrations APPROVED (compounds with "m" flag)
Kristi Schollenberger 05/25/16 11:33

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2594\
Data File : 2p59405.D
Acq On : 20 May 2016 9:24 pm
Operator : seanb1
Sample : op94085-bs1
Misc : op94085,e2p2594,30.0
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 23 13:05:50 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2557.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon May 23 13:04:10 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.764	152	207454	40.00	ppm	0.00
24) Naphthalene-d8	5.823	136	711034	40.00	ppm	0.00
47) Acenaphthene-d10	7.267	164	435682	40.00	ppm	0.00
69) Phenanthrene-d10	8.588	188	795285	40.00	ppm	0.00
83) Chrysene-d12	11.937	240	880535	40.00	ppm	0.00
92) Perylene-d12	13.948	264	730386	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.764	152	207454	40.00	ppm	0.00
104) Naphthalene-d8a	5.823	136	711034	40.00	ppm	0.00
106) Acenaphthene-d10a	7.267	164	435682	40.00	ppm	0.00
109) Chrysene-d12a	11.937	240	880535	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.700	112	291636	34.70	ppm	0.02
Spiked Amount 50.000	Range 11 - 58		Recovery = 69.40%#			
8) Phenol-d5	4.518	99	371349	37.71	ppm	0.00
Spiked Amount 50.000	Range 10 - 59		Recovery = 75.42%#			
25) Nitrobenzene-d5	5.235	82	384426	54.83	ppm	0.05
Spiked Amount 50.000	Range 19 - 61		Recovery = 109.66%#			
51) 2-Fluorobiphenyl	6.711	172	628746	46.38	ppm	-0.01
Spiked Amount 50.000	Range 21 - 58		Recovery = 92.76%#			
73) 2,4,6-Tribromophenol	7.941	330	82921	46.96	ppm	0.01
Spiked Amount 50.000	Range 12 - 68		Recovery = 93.92%#			
85) Terphenyl-d14	10.471	244	775837	43.77	ppm	0.07
Spiked Amount 50.000	Range 16 - 65		Recovery = 87.54%#			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.068	88	68939	18.08	ppm	# 55
3) Pyridine	2.400	79	204226	21.66	ppm	# 63
4) N-Nitrosodimethylamine	2.384	74	147972	26.55	ppm	# 71
6) Indene	4.973	116	500344	42.95	ppm	96
7) Cumene	4.085	105	776377	42.21	ppm	92
9) Phenol	4.529	94	393160	37.67	ppm	91
10) Aniline	4.497	93	208662	17.41	ppm	72
11) bis(2-Chloroethyl)ether	4.550	93	292293	39.75	ppm	91
12) 2-Chlorophenol	4.609	128	292082	38.37	ppm	97
13) Decane	4.625	57	316561	27.92	ppm	84
14) 1,3-Dichlorobenzene	4.716	146	311444	37.23	ppm	98
15) 1,4-Dichlorobenzene	4.780	146	320556	38.93	ppm	98
16) Benzyl alcohol	4.898	108	176794	37.09	ppm	# 54
17) 1,2-Dichlorobenzene	4.903	146	305359	40.13	ppm	96
18) Acetophenone	5.106	105	432190	46.24	ppm	95
19) 2-Methylphenol	5.021	108	243266	37.24	ppm	96
20) 2,2'-oxybis(1-Chloropr...	4.999	121	78047	36.40	ppm	# 1
21) 3&4-Methylphenol	5.149	108	254128	37.28	ppm	95
22) n-Nitroso-di-n-propyla...	5.112	70	233666	47.07	ppm	99
23) Hexachloroethane	5.176	201	125390	50.18	ppm	88
26) Nitrobenzene	5.251	77	383453	54.20	ppm	85
27) Quinoline	6.117	129	519707	41.22	ppm	92
28) Isophorone	5.449	82	660807	52.16	ppm	86

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2594\
Data File : 2p59405.D
Acq On : 20 May 2016 9:24 pm
Operator : seanb1
Sample : op94085-bs1
Misc : op94085,e2p2594,30.0
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 23 13:05:50 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2557.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon May 23 13:04:10 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
29)	2-Nitrophenol	5.513	139	148999	42.60	ppm		72
30)	2,4-Dimethylphenol	5.572	107	306661	49.31	ppm		83
31)	Benzoic acid	5.705	105	185952m	38.19	ppm		
32)	bis(2-Chloroethoxy)met...	5.630	93	324796	41.22	ppm		91
33)	2,4-Dichlorophenol	5.732	162	247413	46.22	ppm		95
34)	2,6-Dichlorophenol	5.903	162	224479	44.53	ppm		93
36)	1,2,4-Trichlorobenzene	5.775	180	281290	47.69	ppm		96
38)	Naphthalene	5.839	128	769753	42.03	ppm		98
39)	4-Chloroaniline	5.898	127	118626	14.98	ppm		87
40)	2,3-Dichloroaniline	6.647	161	235473	35.90	ppm		83
41)	Caprolactam	6.208	113	85081	41.45	ppm		88
42)	Hexachlorobutadiene	5.935	225	179494	61.53	ppm		94
43)	4-Chloro-3-methylphenol	6.331	107	283370	51.58	ppm		93
44)	2-Methylnaphthalene	6.411	141	444422	43.44	ppm		89
45)	1-Methylnaphthalene	6.492	141	471724	44.98	ppm		85
46)	Dimethylnaphthalene	6.925	156	493512	47.77	ppm		89
48)	Hexachlorocyclopentadiene	6.534	237	327421	93.45	ppm		92
49)	2,4,6-Trichlorophenol	6.657	196	185026	45.91	ppm		100
50)	2,4,5-Trichlorophenol	6.706	196	195130	44.97	ppm		99
52)	2-Chloronaphthalene	6.813	162	501362	39.21	ppm		98
53)	Biphenyl	6.797	154	667041	41.57	ppm		96
54)	2-Nitroaniline	6.909	65	242754	54.65	ppm	#	79
55)	Dimethylphthalate	7.048	163	620137	44.67	ppm		100
56)	Acenaphthylene	7.150	152	778608	37.41	ppm		99
57)	2,6-Dinitrotoluene	7.107	165	137210	46.58	ppm		74
58)	3-Nitroaniline	7.251	138	75256	19.35	ppm	#	62
59)	Acenaphthene	7.294	153	548471	43.02	ppm		98
60)	2,4-Dinitrophenol	7.347	184	143382	92.76	ppm	#	72
61)	4-Nitrophenol	7.438	109	137968	78.43	ppm	#	1
62)	Dibenzofuran	7.438	168	772261	45.82	ppm		74
63)	2,4-Dinitrotoluene	7.444	165	201120	52.10	ppm		83
64)	2,3,4,6-Tetrachlorophenol	7.551	232	142207	43.07	ppm		92
65)	Diethylphthalate	7.631	149	665814	47.27	ppm		95
66)	Fluorene	7.722	166	652628	46.61	ppm		95
67)	4-Chlorophenyl-phenyle...	7.722	204	337921	55.23	ppm		93
68)	4-Nitroaniline	7.765	138	127942	33.31	ppm		77
70)	4,6-Dinitro-2-methylph...	7.786	198	111181	47.80	ppm		79
71)	n-Nitrosodiphenylamine	7.829	169	429900	39.93	ppm		97
72)	1,2-Diphenylhydrazine	7.861	77	802761	46.37	ppm		93
74)	4-Bromophenyl-phenylether	8.155	248	199514	49.29	ppm		95
75)	Hexachlorobenzene	8.209	284	195858	45.19	ppm		99
76)	Pentachlorophenol	8.417	266	75840	25.89	ppm		89
77)	Phenanthrene	8.615	178	896893	38.40	ppm		97
78)	Anthracene	8.669	178	902148	38.94	ppm		99
79)	Carbazole	8.850	167	832473	38.21	ppm		94
80)	Di-n-butylphthalate	9.225	149	1235102	42.61	ppm		96
81)	Fluoranthene	9.963	202	1185433	46.73	ppm		89
82)	Octadecane	8.476	43	508486	49.74	ppm		89
84)	Pyrene	10.246	202	1186393	39.03	ppm		96
86)	Butylbenzylphthalate	11.182	149	574428	38.52	ppm		86

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2594\
Data File : 2p59405.D
Acq On : 20 May 2016 9:24 pm
Operator : seanb1
Sample : op94085-bs1
Misc : op94085,e2p2594,30.0
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 23 13:05:50 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2557.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon May 23 13:04:10 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
88)	Benzo[a]anthracene	11.921	228	1190485	42.38	ppm		97
89)	3,3'-Dichlorobenzidine	11.921	252	461320	48.53	ppm		96
90)	Chrysene	11.974	228	944241	37.17	ppm		98
91)	bis(2-Ethylhexyl)phtha...	12.049	149	735393	39.43	ppm		94
93)	Di-n-octylphthalate	13.001	149	1320480	39.75	ppm		99
94)	Benzo[b]fluoranthene	13.450	252	1083824	42.71	ppm		86
95)	Benzo[k]fluoranthene	13.488	252	903045	40.74	ppm		85
96)	Benzo[a]pyrene	13.873	252	904499	42.00	ppm		88
97)	Indeno[1,2,3-cd]pyrene	15.429	276	876756	47.08	ppm		86
99)	Dibenz[a,h]anthracene	15.467	278	816472	43.79	ppm		84
100)	7,12-Dimethylbenz(a)an...	13.440	256	490585	47.43	ppm		97
101)	Benzo[g,h,i]perylene	15.857	276	803686	40.82	ppm		75
103)	Benzaldehyde	4.400	105	216796	40.08	ppm	#	78
107)	Atrazine	8.326	215	95920	57.12	ppm	#	76
108)	1,2,4,5-Tetrachloroben...	6.545	216	297841	55.02	ppm		99
110)	Benzidine	10.155	184	277799	57.31	ppm		98

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

7.3.2

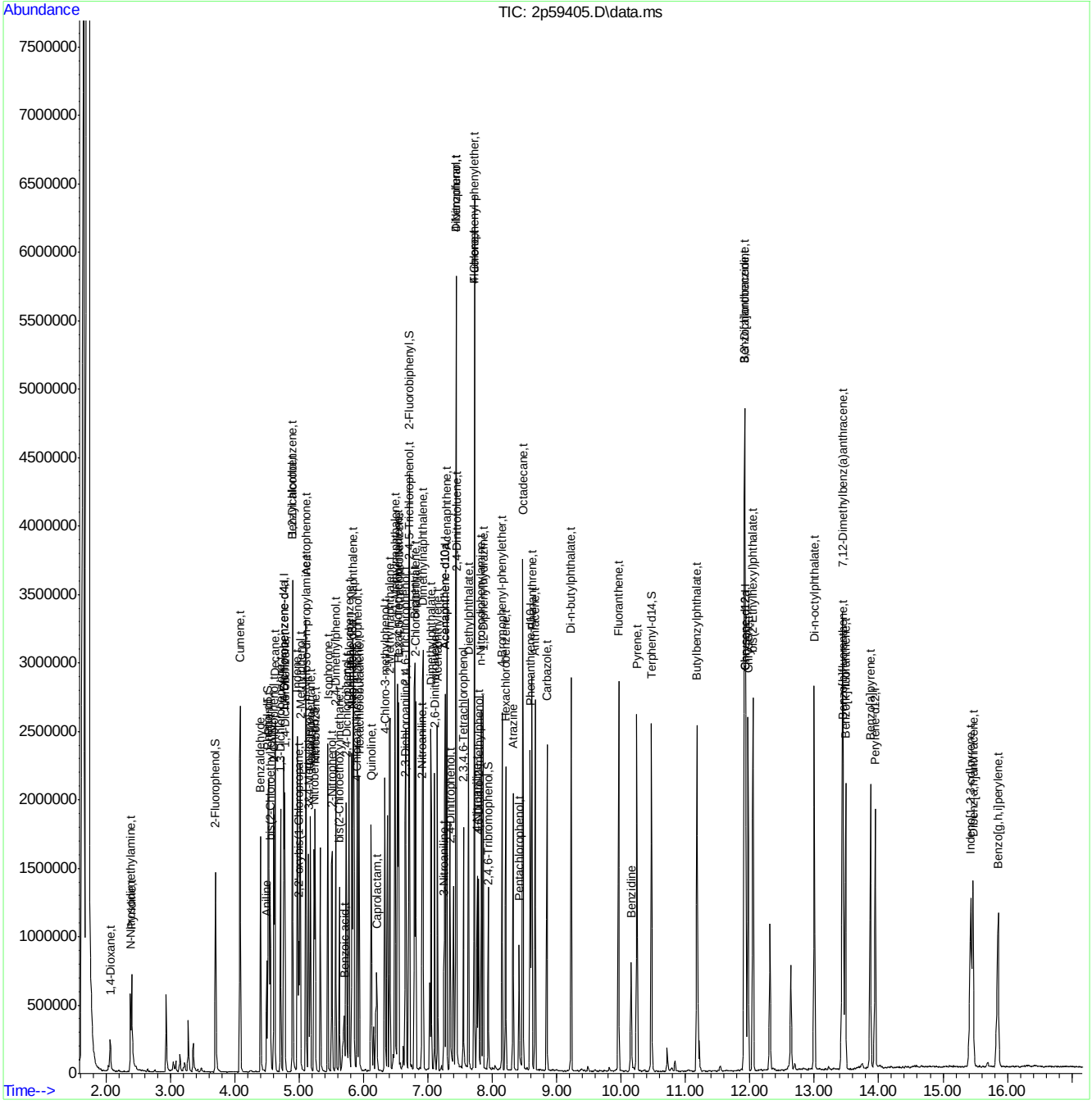
7

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2594\
Data File : 2p59405.D
Acq On : 20 May 2016 9:24 pm
Operator : seanb1
Sample : op94085-bs1
Misc : op94085,e2p2594,30.0
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 23 13:05:50 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2557.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon May 23 13:04:10 2016
Response via : Initial Calibration



SGS ACCUTEST JC20098

Manual Integration Approval Summary

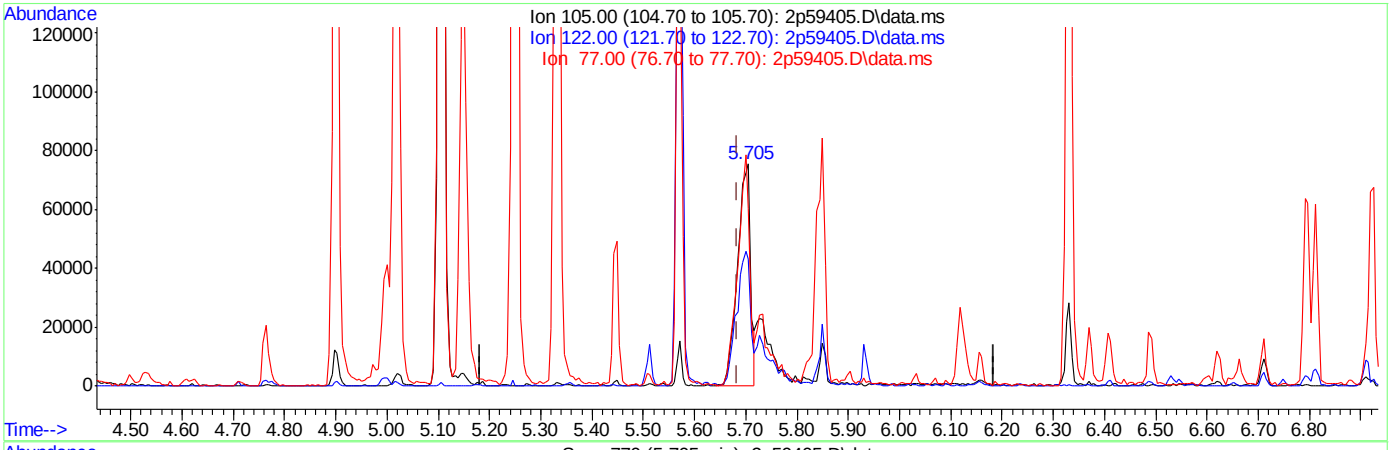
Sample Number:	OP94085-BS1	**Method:**	SW846 8270D
Lab FileID:	2P59405.D	**Analyst approved:**	05/23/16 13:57 Ashley Dye
Injection Time:	05/20/16 21:24	**Supervisor approved:**	05/25/16 11:33 Kristi Schollenberger

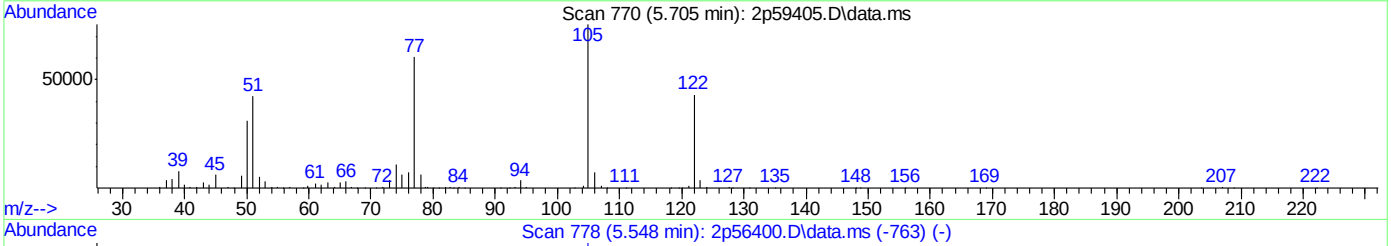
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic acid	65-85-0		5.71	Split peak

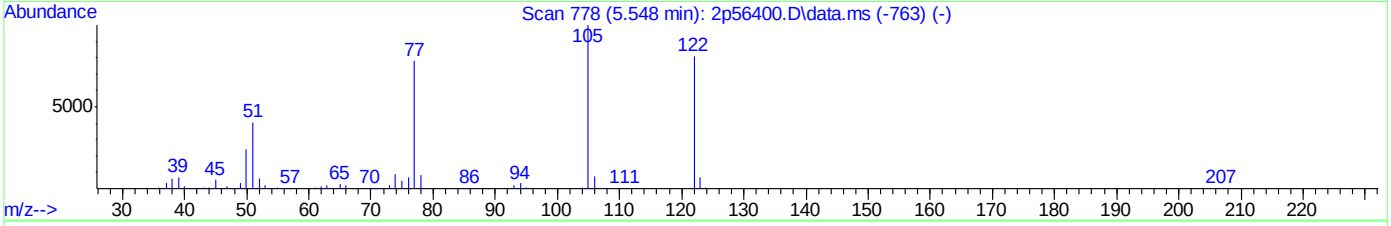
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P2594\
Data File : 2p59405.D
Acq On : 20 May 2016 9:24 pm
Operator : seanb1
Sample : op94085-bs1
Misc : op94085,e2p2594,30.0
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 23 13:04:16 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2557.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon May 23 13:04:10 2016
Response via : Initial Calibration







TIC: 2p59405.D\data.ms

(31) Benzoic acid (t)

5.705min (+0.021) 27.62ppm

response 134488

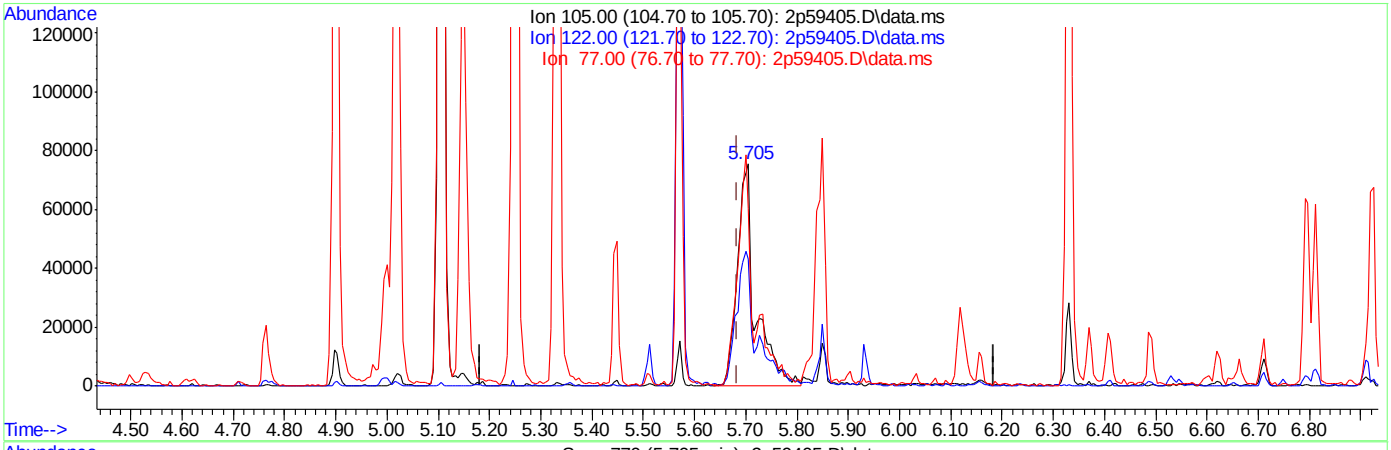
Ion	Exp%	Act%
105.00	100	100
122.00	78.30	56.07
77.00	99.20	80.05
0.00	0.00	0.00

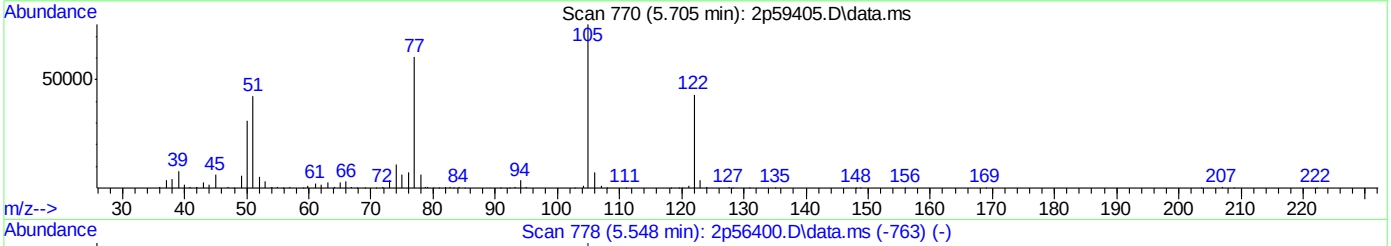
SGS ACCUTEST JC20098

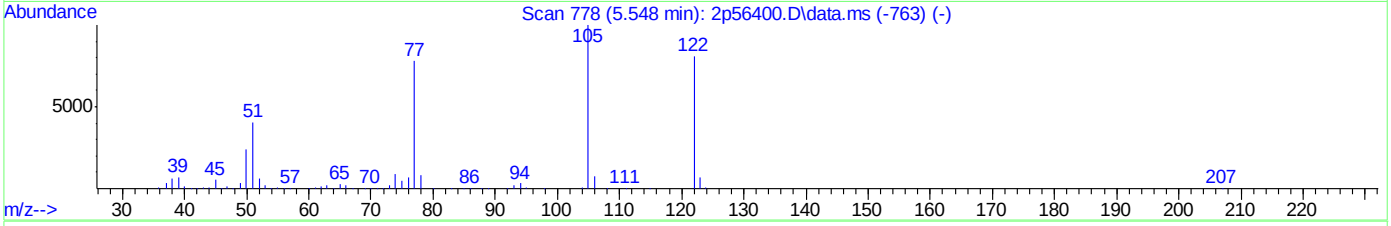
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P2594\
Data File : 2p59405.D
Acq On : 20 May 2016 9:24 pm
Operator : seanb1
Sample : op94085-bs1
Misc : op94085,e2p2594,30.0
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 23 13:04:16 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2557.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon May 23 13:04:10 2016
Response via : Initial Calibration







TIC: 2p59405.D\data.ms

(31) Benzoic acid (t)

5.705min (+0.021) 38.19ppm m

response 185952

Ion	Exp%	Act%
105.00	100	100
122.00	78.30	57.05
77.00	99.20	80.11
0.00	0.00	0.00

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2882\
Data File : 3m61298.D
Acq On : 13 May 2016 12:12 pm
Operator : ashleyd
Sample : op93867a-bs12
Misc : op93867a,e3m2882,1000
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 13 14:32:13 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 12 12:34:26 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.427	150	649304	4.00	ppm	0.06
14) Fluorene-d10	13.430	176	1119614	4.00	ppm	0.06
21) Fluoranthene-d10	17.654	212	1714608	4.00	ppm	0.06
31) Benzo(a)pyrene-d12	22.259	264	1279541	4.00	ppm	0.06
System Monitoring Compounds						
3) 2-Fluorophenol	4.384	112	1106925	13.63	ppm	0.07
Spiked Amount 50.000			Recovery = 27.26%			
4) Phenol-d5	5.988	99	1172932	8.73	ppm	0.06
Spiked Amount 50.000			Recovery = 17.46%			
7) Nitrobenzene-d5	7.550	82	2336180	18.69	ppm	0.06
Spiked Amount 50.000			Recovery = 37.38%			
15) 2-Fluorobiphenyl	11.099	172	5087223	16.54	ppm	0.06
Spiked Amount 50.000			Recovery = 33.08%			
20) 2,4,6-Tribromophenol	13.976	330	649521	18.54	ppm	0.06
Spiked Amount 50.000			Recovery = 37.08%			
28) Terphenyl-d14	18.458	244	6053311	24.34	ppm	0.05
Spiked Amount 50.000			Recovery = 48.68%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.159	88	7263	0.22	ppm	72
5) Phenol	6.012	94	153140	1.06	ppm #	82
6) bis(2-Chloroethyl)ether	6.109	93	40653	0.37	ppm	63
8) Nitrobenzene	7.568	77	54497	0.40	ppm	93
9) Naphthalene	8.943	128	143513	0.40	ppm	85
10) Hexachlorobutadiene	9.225	225	23834	0.38	ppm	93
11) 2-Methylnaphthalene	10.303	141	92489	0.49	ppm	86
13) Hexachlorocyclopentadiene	10.652	237	7273	0.15	ppm	87
16) Acenaphthylene	12.088	152	140038	0.36	ppm	90
17) Acenaphthene	12.443	153	102803	0.40	ppm	80
18) 4,6-dinitro-2-methylph...	13.675	198	71710	2.41	ppm	81
19) Fluorene	13.486	166	125445	0.40	ppm	78
22) Hexachlorobenzene	14.563	284	35212	0.43	ppm	83
23) Pentachlorophenol	15.027	266	88069	1.69	ppm	99
24) Phenanthrene	15.398	178	196732	0.47	ppm	98
25) Anthracene	15.490	178	172639	0.47	ppm	90
26) Fluoranthene	17.670	202	232874	0.44	ppm	93
27) Pyrene	18.071	202	238316	0.49	ppm	91
29) Benzo[a]anthracene	20.173	228	236676	0.50	ppm	88
30) Chrysene	20.219	228	219458	0.49	ppm	94
32) Benzo[b]fluoranthene	21.826	252	226627	0.53	ppm	86
33) Benzo[k]fluoranthene	21.872	252	196998	0.50	ppm	96
34) Benzo[a]pyrene	22.289	252	212374	0.54	ppm	93
35) Indeno[1,2,3-cd]pyrene	23.749	276	225976	0.56	ppm	92
36) Dibenz[a,h]anthracene	23.806	278	191437	0.58	ppm	100
37) Benzo[g,h,i]perylene	24.125	276	197083	0.56	ppm	100

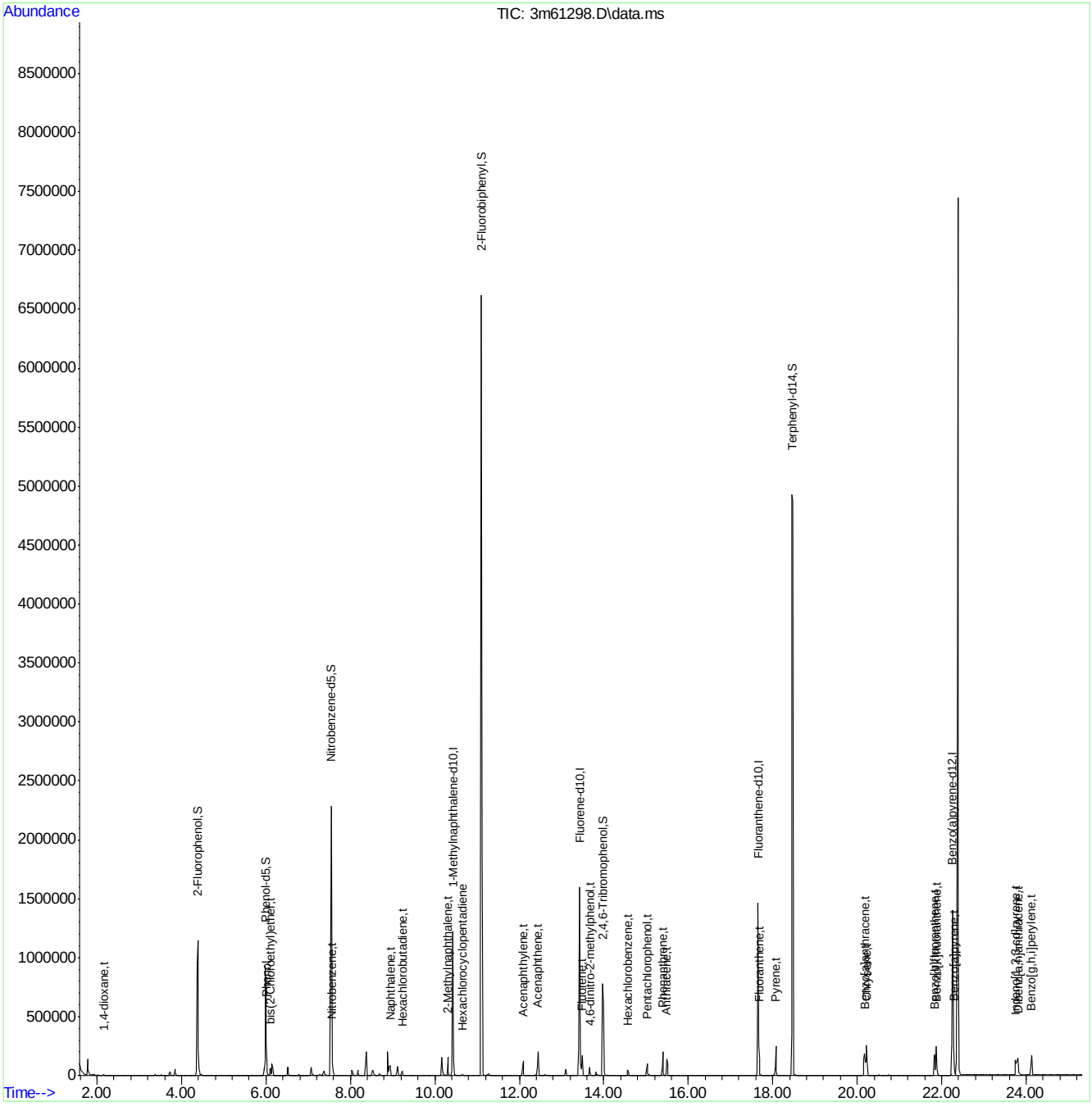
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2882\
Data File : 3m61298.D
Acq On : 13 May 2016 12:12 pm
Operator : ashleyd
Sample : op93867a-bs12
Misc : op93867a,e3m2882,1000
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 13 14:32:13 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 12 12:34:26 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2931\
Data File : 4m65502.D
Acq On : 24 May 2016 10:23 pm
Operator : linseyk
Sample : op94085a-bs12
Misc : op94085a,e4m2931,30.0
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 25 08:55:13 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2930SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue May 24 15:08:32 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1-Methylnaphthalene-d10	9.863	152	195603	4.00	ppm		0.00
12) Fluorene-d10	12.827	176	429413	4.00	ppm		0.00
22) Fluoranthene-d10	17.007	212	774144	4.00	ppm		-0.02
28) Benzo(a)pyrene-d12	21.610	264	589116	4.00	ppm		0.00
35) 1-Methylnaphthalene-d10a	9.863	152	195603	4.00	ppm		0.00
38) Fluorene-d10a	12.827	176	429413	4.00	ppm		0.00
System Monitoring Compounds							
2) 2-Fluorophenol	4.121	112	2175998	59.76	ppm		0.00
Spiked Amount 50.000	Range 11 - 58		Recovery = 119.52%#				
3) Phenol-d5	5.512	99	3897622	60.92	ppm		0.00
Spiked Amount 50.000			Recovery = 121.84%				
6) Nitrobenzene-d5	7.038	82	3167351	62.33	ppm		0.00
Spiked Amount 50.000			Recovery = 124.66%				
11) 2-Fluorobiphenyl	10.507	172	5144593	63.02	ppm		0.00
Spiked Amount 50.000			Recovery = 126.04%				
17) 2,4,6-Tribromophenol	13.376	330	1189577	70.40	ppm		0.00
Spiked Amount 50.000			Recovery = 140.80%				
25) Terphenyl-d14	17.817	244	6129421	69.34	ppm		0.00
Spiked Amount 50.000			Recovery = 138.68%				
Target Compounds							Qvalue
4) Phenol	5.526	94	420630	6.13	ppm		72
5) bis(2-Chloroethyl)ether	5.663	93	61873	1.20	ppm		72
7) Naphthalene	8.384	128	169220	1.20	ppm		97
8) Hexachlorobutadiene	8.662	225	29053	1.11	ppm		91
9) 2-Methylnaphthalene	9.719	142	56634	1.07	ppm	#	45
10) Hexachlorocyclopentadiene	10.077	237	2695	0.95	ppm		91
13) Acenaphthylene	11.496	152	113071	0.99	ppm		97
14) Acenaphthene	11.851	153	71858	1.12	ppm		93
15) Dibenzofuran	12.206	168	113405	1.25	ppm		64
16) Fluorene	12.875	166	107075	1.28	ppm	#	56
18) Hexachlorobenzene	13.976	284	46265	1.12	ppm		91
19) Pentachlorophenol	14.409	266	64176	6.66	ppm		92
20) Phenanthrene	14.785	178	180226	1.24	ppm		89
21) Anthracene	14.898	178	168201	1.18	ppm		97
23) Fluoranthene	17.045	202	217280	1.37	ppm		93
24) Pyrene	17.440	202	209154	1.35	ppm		94
26) Benzo[a]anthracene	19.530	228	187206	1.27	ppm	#	82
27) Chrysene	19.586	228	181615	1.22	ppm		94
29) Benzo[b]fluoranthene	21.184	252	189511	0.82	ppm		96
30) Benzo[k]fluoranthene	21.225	252	195698	1.27	ppm		96
31) Benzo[a]pyrene	21.638	252	175051	0.98	ppm		93
32) Indeno[1,2,3-cd]pyrene	23.194	276	189663	0.94	ppm		97
33) Dibenz[a,h]anthracene	23.235	278	137657	0.86	ppm		76
34) Benzo[g,h,i]perylene	23.593	276	163540	0.83	ppm		100
36) 1,4-Dioxane	2.309	88	12285	0.62	ppm	#	1
39) 4,6-dinitro-2-methylph...	13.066	198	71875	5.64	ppm		91
40) 1,2-Diphenylhydrazine	13.257	77	125490	1.18	ppm		99

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2931\
Data File : 4m65502.D
Acq On : 24 May 2016 10:23 pm
Operator : linseyk
Sample : op94085a-bs12
Misc : op94085a,e4m2931,30.0
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 25 08:55:13 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2930SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue May 24 15:08:32 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) n-nitrosodiphenylamine	13.185	169	69335	1.26	ppm #	52

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

7.3.4

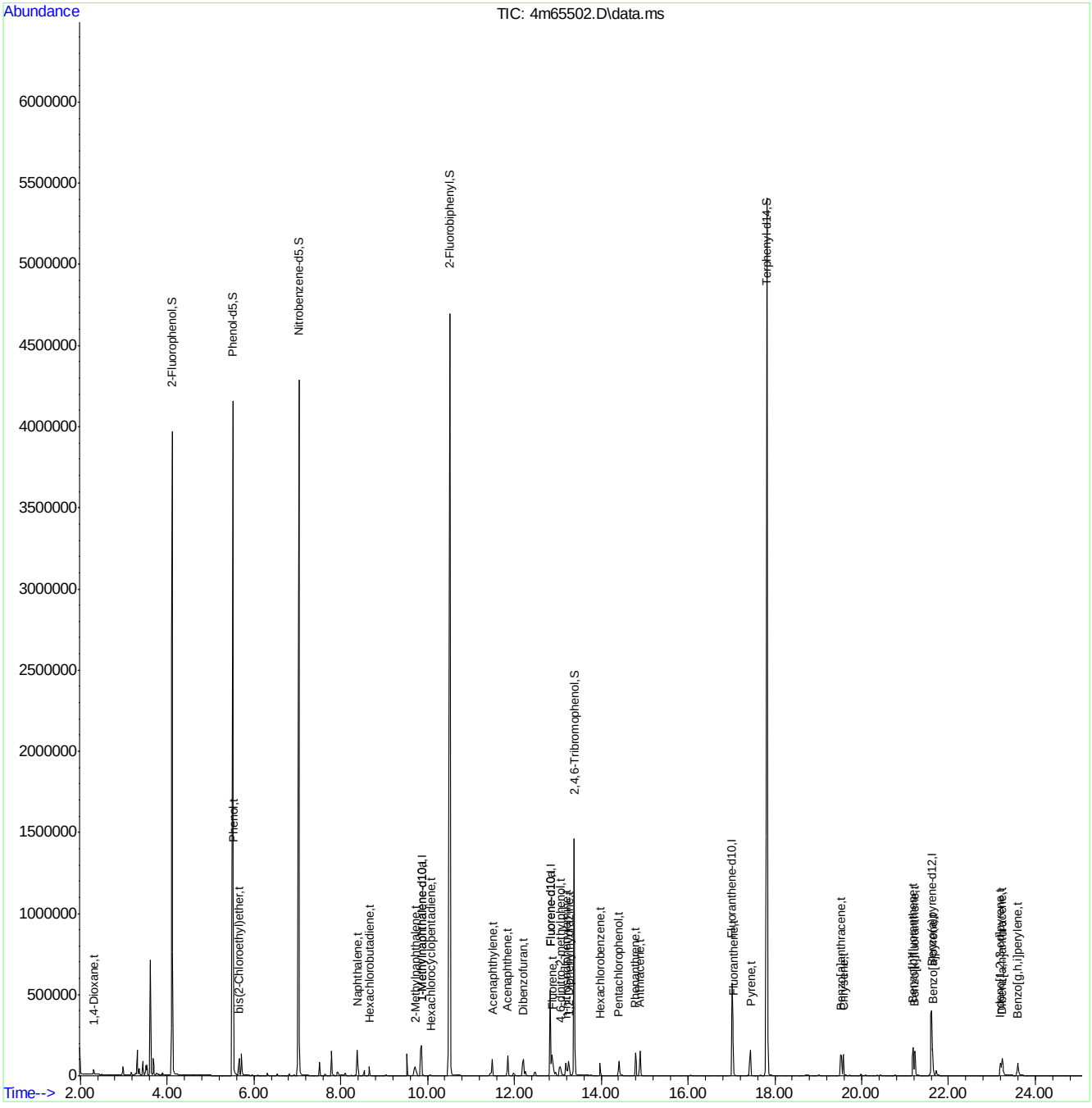
7

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2931\
Data File : 4m65502.D
Acq On : 24 May 2016 10:23 pm
Operator : linseyk
Sample : op94085a-bs12
Misc : op94085a,e4m2931,30.0
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 25 08:55:13 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2930SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue May 24 15:08:32 2016
Response via : Initial Calibration



SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6610\F157069.D Vial: 12
Acq On : 13 May 2016 1:55 pm Operator: brittanp
Sample : op93867-ms Inst : MSF
Misc : op93867,ef6610,405,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 13 16:39:24 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri May 13 16:38:09 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.76	152	604529	40.00	ppm	0.00
24) Naphthalene-d8	5.68	136	2584986	40.00	ppm	-0.05
47) Acenaphthene-d10	7.11	164	1300500	40.00	ppm	-0.07
69) Phenanthrene-d10	9.00	188	2019882	40.00	ppm	-0.09
83) Chrysene-d12	14.28	240	1808891	40.00	ppm	-0.10
92) Perylene-d12	17.32	264	1644569	40.00	ppm	-0.04
102) 1,4-Dichlorobenzene-d4b	4.76	152	604529	40.00	ppm	-0.05
104) Naphthalene-d8b	5.68	136	2584986	40.00	ppm	-0.05
106) Acenaphthene-d10b	7.11	164	1300500	40.00	ppm	-0.07
108) Phenanthrene-d10b	9.00	188	2019882	40.00	ppm	-0.09
110) Chrysene-d12b	14.28	240	1808891	40.00	ppm	-0.10
System Monitoring Compounds						
5) 2-Fluorophenol	3.81	112	619575	29.14	ppm	-0.02
Spiked Amount 50.000			Recovery = 58.28%			
8) Phenol-d5	4.53	99	700101	27.08	ppm	-0.01
Spiked Amount 50.000			Recovery = 54.16%			
25) Nitrobenzene-d5	5.16	82	812282	33.65	ppm	-0.06
Spiked Amount 50.000			Recovery = 67.30%			
51) 2-Fluorobiphenyl	6.49	172	1447010	34.86	ppm	-0.06
Spiked Amount 50.000			Recovery = 69.72%			
73) 2,4,6-Tribromophenol	8.01	330	180894	43.89	ppm	-0.07
Spiked Amount 50.000			Recovery = 87.78%			
85) Terphenyl-d14	12.05	244	1293872	35.22	ppm	-0.11
Spiked Amount 50.000			Recovery = 70.44%			

Target Compounds						Qvalue
2) 1,4-Dioxane	2.34	88	215119	22.98	ppm	98
3) Pyridine	2.66	79	388069	17.60	ppm	96
4) N-Nitrosodimethylamine	2.61	42	282464	35.60	ppm	96
6) Indene	4.94	116	1233390	34.47	ppm	99
7) Cumene	4.16	105	1802936	37.51	ppm	93
9) Phenol	4.54	94	843068	30.63	ppm	93
10) Aniline	4.51	93	840423	27.90	ppm	75
11) bis(2-Chloroethyl)ether	4.56	93	685223	34.61	ppm	98
12) 2-Chlorophenol	4.62	128	688641	30.68	ppm	91
13) Decane	4.63	43	420173	21.76	ppm	88
14) 1,3-Dichlorobenzene	4.71	146	674935	27.12	ppm	97
15) 1,4-Dichlorobenzene	4.77	146	712215	28.68	ppm	99
16) Benzyl alcohol	4.87	108	515434	36.01	ppm	78
17) 1,2-Dichlorobenzene	4.88	146	660876	28.31	ppm	99
18) Acetophenone	5.05	105	1042225	38.52	ppm	97
19) 2-Methylphenol	4.97	108	673056	35.01	ppm	96
20) 2,2'-oxybis(1-Chloropropan	4.95	121	202106	28.32	ppm	99
21) 3&4-Methylphenol	5.08	108	718471	36.44	ppm	95
22) n-Nitroso-di-n-propylamine	5.05	70	562607	38.52	ppm	95
23) Hexachloroethane	5.12	201	216822	28.19	ppm	93
26) Nitrobenzene	5.18	77	851674	33.69	ppm	85
27) Quinoline	5.94	129	1494349	29.91	ppm	98
28) Isophorone	5.35	82	1536648	35.59	ppm	96

(#) = qualifier out of range (m) = manual integration
F157069.D MF6563.M Fri May 13 16:41:41 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6610\F157069.D Vial: 12
Acq On : 13 May 2016 1:55 pm Operator: brittanp
Sample : op93867-ms Inst : MSF
Misc : op93867,ef6610,405,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 13 16:39:24 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri May 13 16:38:09 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
29)	2-Nitrophenol	5.41	139	373957	28.51	ppm		85
30)	2,4-Dimethylphenol	5.45	107	757048	36.64	ppm		98
31)	Benzoic acid	5.55	105	453812	26.27	ppm		96
32)	bis(2-Chloroethoxy)methane	5.50	93	800629	29.42	ppm		97
33)	2,4-Dichlorophenol	5.60	162	578528	28.04	ppm		95
34)	2,6-Dichlorophenol	5.75	162	570634	28.79	ppm		98
36)	1,2,4-Trichlorobenzene	5.64	180	552514	25.90	ppm		96
38)	Naphthalene	5.70	128	2039604	28.90	ppm		99
39)	4-Chloroaniline	5.74	127	674535	23.14	ppm		94
40)	2,3-Dichloroaniline	6.43	161	688231	28.63	ppm		93
41)	Caprolactam	5.99	55	162425	16.56	ppm		87
42)	Hexachlorobutadiene	5.78	225	274315	27.16	ppm		97
43)	4-Chloro-3-methylphenol	6.11	107	700258	34.60	ppm		98
44)	2-Methylnaphthalene	6.20	141	1170829	29.41	ppm		98
45)	1-Methylnaphthalene	6.28	141	1191593	29.08	ppm		98
46)	Dimethylnaphthalene	6.72	156	1215103	29.27	ppm		95
48)	Hexachlorocyclopentadiene	6.32	237	520726	59.01	ppm		98
49)	2,4,6-Trichlorophenol	6.43	196	414337	37.55	ppm		96
50)	2,4,5-Trichlorophenol	6.49	196	398819	32.82	ppm		98
52)	2-Chloronaphthalene	6.60	162	1248803	33.23	ppm		95
53)	Biphenyl	6.58	154	1671130	34.63	ppm		99
54)	2-Nitroaniline	6.69	65	513450	48.21	ppm		84
55)	Dimethylphthalate	6.84	163	1553481	36.94	ppm		98
56)	Acenaphthylene	6.97	152	2049372	33.64	ppm		97
57)	2,6-Dinitrotoluene	6.90	165	324968	35.75	ppm		80
58)	3-Nitroaniline	7.07	138	329317	28.94	ppm		77
59)	Acenaphthene	7.14	153	1361740	35.59	ppm		95
60)	2,4-Dinitrophenol	7.18	184	402161	75.78	ppm	#	52
61)	4-Nitrophenol	7.30	109	234084	43.79	ppm		78
62)	Dibenzofuran	7.32	168	1835521	35.15	ppm		91
63)	2,4-Dinitrotoluene	7.31	165	457514	37.14	ppm	#	56
64)	2,3,4,6-Tetrachlorophenol	7.47	232	309335	33.76	ppm		90
65)	Diethylphthalate	7.58	149	1549616	37.29	ppm		99
66)	Fluorene	7.71	166	1504272	37.44	ppm		100
67)	4-Chlorophenyl-phenylether	7.71	204	654806	36.98	ppm		95
68)	4-Nitroaniline	7.75	138	390763	34.01	ppm		92
70)	4,6-Dinitro-2-methylphenol	7.78	198	268135	42.02	ppm		84
71)	n-Nitrosodiphenylamine	7.86	169	908909	31.44	ppm		99
72)	1,2-Diphenylhydrazine	7.91	77	1771589	44.34	ppm		95
74)	4-Bromophenyl-phenylether	8.35	248	363262	37.39	ppm		91
75)	Hexachlorobenzene	8.43	284	370225	39.92	ppm		99
76)	Pentachlorophenol	8.73	266	215114	35.21	ppm		95
77)	Phenanthrene	9.04	178	2104564	36.22	ppm		99
78)	Anthracene	9.12	178	2020286	34.73	ppm		99
79)	Carbazole	9.41	167	2017473	36.99	ppm		98
80)	Di-n-butylphthalate	10.10	149	2550495	37.45	ppm		99
81)	Fluoranthene	11.18	202	2075799	36.02	ppm		99
82)	Octadecane	8.89	57	664927	28.12	ppm		88
84)	Pyrene	11.63	202	2202263	34.33	ppm		99

(#) = qualifier out of range (m) = manual integration

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6610\F157069.D Vial: 12
Acq On : 13 May 2016 1:55 pm Operator: brittanp
Sample : op93867-ms Inst : MSF
Misc : op93867,ef6610,405,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 13 16:39:24 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri May 13 16:38:09 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
86)	Butylbenzylphthalate	13.22	149	1067878	33.89	ppm	87
88)	Benzo[a]anthracene	14.25	228	1790179	32.67	ppm	98
89)	3,3'-Dichlorobenzidine	14.30	252	1087369	56.97	ppm	98
90)	Chrysene	14.33	228	1707832	31.36	ppm	98
91)	bis(2-Ethylhexyl)phthalate	14.63	149	1431175	32.77	ppm	96
93)	Di-n-octylphthalate	16.08	149	2475584	34.35	ppm	99
94)	Benzo[b]fluoranthene	16.57	252	1782011	35.06	ppm	98
95)	Benzo[k]fluoranthene	16.63	252	1740318	34.99	ppm	98
96)	Benzo[a]pyrene	17.20	252	1514308	32.55	ppm	97
97)	Indeno[1,2,3-cd]pyrene	19.26	276	1496070	34.85	ppm	97
99)	Dibenz[a,h]anthracene	19.32	278	1505295	36.24	ppm	97
100)	7,12-Dimethylbenz(a)anthra	16.58	256	707255	35.64	ppm	93
101)	Benzo[g,h,i]perylene	19.69	276	1604867	34.59	ppm	97
103)	Benzaldehyde	4.43	105	564496	33.16	ppm	96
107)	1,2,4,5-Tetrachlorobenzene	6.33	216	562738	31.10	ppm	98
109)	Atrazine	8.61	200	410372	42.27	ppm	98
111)	Benzidine	11.53	184	77570	2.47	ppm	96

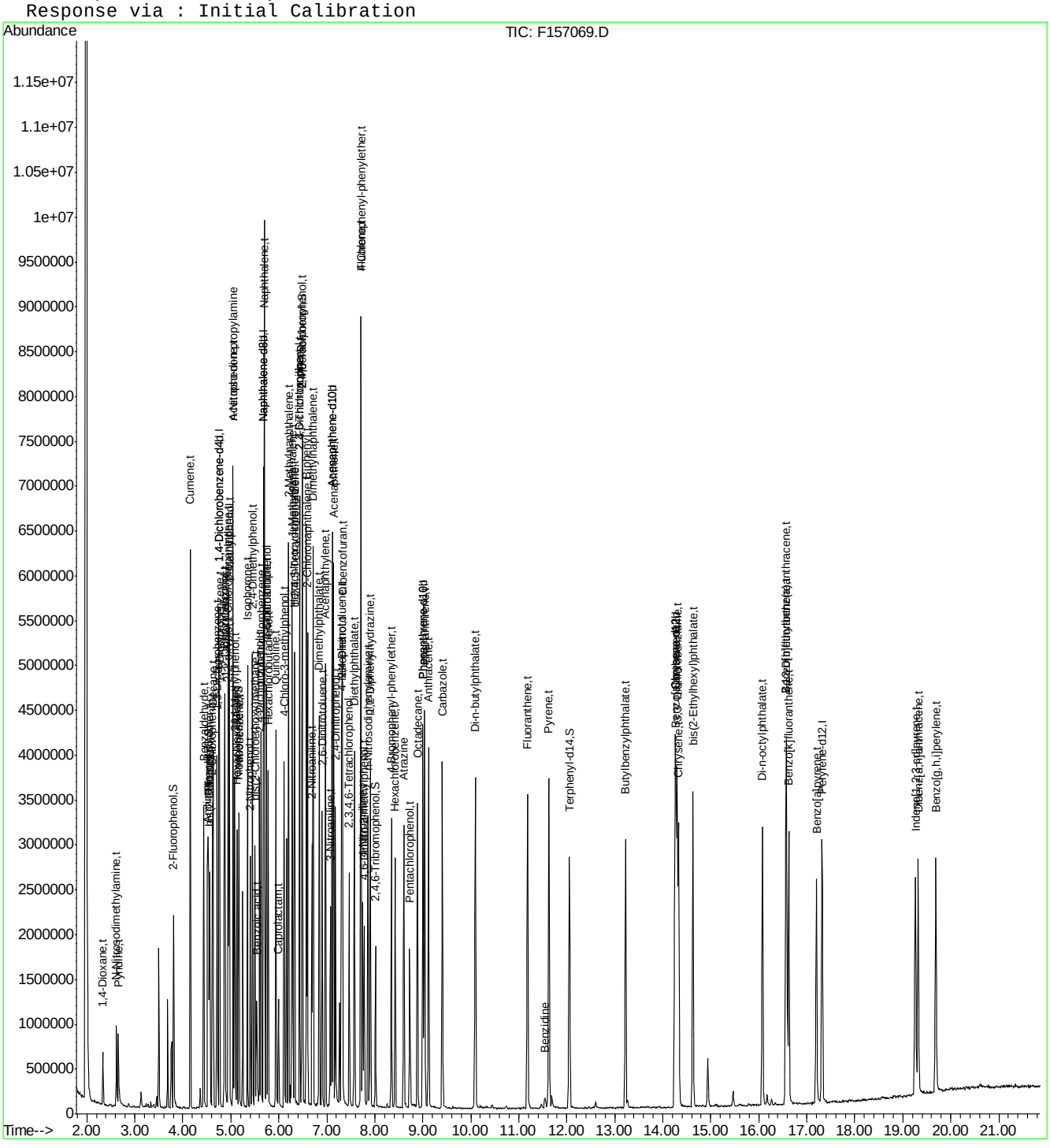
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6610\F157069.D Vial: 12
Acq On : 13 May 2016 1:55 pm Operator: brittanp
Sample : op93867-ms Inst : MSF
Misc : op93867,ef6610,405,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 13 16:39 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri May 13 16:38:09 2016
Response via : Initial Calibration



SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6610\F157070.D Vial: 13
Acq On : 13 May 2016 2:24 pm Operator: brittanp
Sample : op93867-msd Inst : MSF
Misc : op93867,ef6610,405,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 13 16:40:37 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri May 13 16:38:09 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.76	152	568786	40.00	ppm	0.00
24) Naphthalene-d8	5.68	136	2557222	40.00	ppm	-0.05
47) Acenaphthene-d10	7.11	164	1315572	40.00	ppm	-0.07
69) Phenanthrene-d10	9.00	188	2045305	40.00	ppm	-0.09
83) Chrysene-d12	14.28	240	1858493	40.00	ppm	-0.10
92) Perylene-d12	17.32	264	1706422	40.00	ppm	-0.04
102) 1,4-Dichlorobenzene-d4b	4.76	152	568786	40.00	ppm	-0.05
104) Naphthalene-d8b	5.68	136	2557222	40.00	ppm	-0.05
106) Acenaphthene-d10b	7.11	164	1315572	40.00	ppm	-0.07
108) Phenanthrene-d10b	9.00	188	2045305	40.00	ppm	-0.09
110) Chrysene-d12b	14.28	240	1858493	40.00	ppm	-0.10

System Monitoring Compounds						
5) 2-Fluorophenol	3.81	112	610909	30.54	ppm	-0.02
Spiked Amount 50.000			Recovery = 61.08%			
8) Phenol-d5	4.53	99	712746	29.30	ppm	-0.01
Spiked Amount 50.000			Recovery = 58.60%			
25) Nitrobenzene-d5	5.16	82	932637	39.05	ppm	-0.06
Spiked Amount 50.000			Recovery = 78.10%			
51) 2-Fluorobiphenyl	6.49	172	1649918	39.29	ppm	-0.06
Spiked Amount 50.000			Recovery = 78.58%			
73) 2,4,6-Tribromophenol	8.01	330	220069	52.73	ppm	-0.07
Spiked Amount 50.000			Recovery = 105.46%			
85) Terphenyl-d14	12.05	244	1618780	42.89	ppm	-0.11
Spiked Amount 50.000			Recovery = 85.78%			

Target Compounds						Qvalue
2) 1,4-Dioxane	2.34	88	213370	24.23	ppm	99
3) Pyridine	2.66	79	246726	11.89	ppm	94
4) N-Nitrosodimethylamine	2.61	42	283782	38.01	ppm	96
6) Indene	4.94	116	1398995	41.56	ppm	96
7) Cumene	4.16	105	2028027	44.85	ppm	93
9) Phenol	4.54	94	830968	32.09	ppm	91
10) Aniline	4.51	93	741055	26.15	ppm	71
11) bis(2-Chloroethyl)ether	4.56	93	765702	41.10	ppm	97
12) 2-Chlorophenol	4.62	128	746012	35.33	ppm	91
13) Decane	4.63	43	506965	27.91	ppm	86
14) 1,3-Dichlorobenzene	4.71	146	769535	32.86	ppm	95
15) 1,4-Dichlorobenzene	4.77	146	801205	34.29	ppm	99
16) Benzyl alcohol	4.87	108	528217	39.23	ppm	76
17) 1,2-Dichlorobenzene	4.88	146	748968	34.09	ppm	98
18) Acetophenone	5.05	105	1150642	45.20	ppm	97
19) 2-Methylphenol	4.97	108	725894	40.13	ppm	95
20) 2,2'-oxybis(1-Chloropropan	4.96	121	220484	32.83	ppm	89
21) 3&4-Methylphenol	5.08	108	738920	39.84	ppm	93
22) n-Nitroso-di-n-propylamine	5.05	70	629320	45.79	ppm	96
23) Hexachloroethane	5.12	201	236422	32.66	ppm	96
26) Nitrobenzene	5.18	77	968962	38.74	ppm	85
27) Quinoline	5.94	129	1580609	31.98	ppm	98
28) Isophorone	5.35	82	1709338	40.02	ppm	96

(#) = qualifier out of range (m) = manual integration
F157070.D MF6563.M Fri May 13 16:41:36 2016 RT1

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6610\F157070.D Vial: 13
Acq On : 13 May 2016 2:24 pm Operator: brittanp
Sample : op93867-msd Inst : MSF
Misc : op93867,ef6610,405,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 13 16:40:37 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri May 13 16:38:09 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
29)	2-Nitrophenol	5.41	139	407888	31.44	ppm		93
30)	2,4-Dimethylphenol	5.45	107	842519	41.22	ppm		96
31)	Benzoic acid	5.55	105	519629	30.41	ppm		98
32)	bis(2-Chloroethoxy)methane	5.50	93	883735	32.83	ppm		97
33)	2,4-Dichlorophenol	5.60	162	631174	30.92	ppm		92
34)	2,6-Dichlorophenol	5.75	162	640913	32.69	ppm		98
36)	1,2,4-Trichlorobenzene	5.64	180	611456	28.97	ppm		97
38)	Naphthalene	5.70	128	2337779	33.48	ppm		99
39)	4-Chloroaniline	5.74	127	622476	21.59	ppm		95
40)	2,3-Dichloroaniline	6.43	161	772957	32.51	ppm		92
41)	Caprolactam	5.99	55	178629	18.41	ppm		94
42)	Hexachlorobutadiene	5.78	225	311937	31.22	ppm		98
43)	4-Chloro-3-methylphenol	6.11	107	782534	39.08	ppm		96
44)	2-Methylnaphthalene	6.20	141	1299955	33.01	ppm		98
45)	1-Methylnaphthalene	6.28	141	1386296	34.20	ppm		97
46)	Dimethylnaphthalene	6.72	156	1422411	34.64	ppm		98
48)	Hexachlorocyclopentadiene	6.33	237	631694	70.76	ppm		98
49)	2,4,6-Trichlorophenol	6.43	196	470613	42.16	ppm		99
50)	2,4,5-Trichlorophenol	6.49	196	468790	38.14	ppm		97
52)	2-Chloronaphthalene	6.60	162	1459151	38.38	ppm		94
53)	Biphenyl	6.58	154	1950427	39.96	ppm		98
54)	2-Nitroaniline	6.69	65	584929	54.29	ppm		85
55)	Dimethylphthalate	6.84	163	1807652	42.49	ppm		98
56)	Acenaphthylene	6.98	152	2368708	38.44	ppm		98
57)	2,6-Dinitrotoluene	6.90	165	401828	43.70	ppm		80
58)	3-Nitroaniline	7.07	138	343753	29.86	ppm		78
59)	Acenaphthene	7.14	153	1592551	41.15	ppm		94
60)	2,4-Dinitrophenol	7.18	184	478586	88.70	ppm	#	53
61)	4-Nitrophenol	7.30	109	252256	46.65	ppm		90
62)	Dibenzofuran	7.32	168	2146176	40.63	ppm		92
63)	2,4-Dinitrotoluene	7.31	165	556160	44.63	ppm		60
64)	2,3,4,6-Tetrachlorophenol	7.47	232	368857	39.80	ppm		96
65)	Diethylphthalate	7.58	149	1822175	43.34	ppm		98
66)	Fluorene	7.71	166	1789407	44.02	ppm		99
67)	4-Chlorophenyl-phenylether	7.71	204	763193	42.61	ppm		96
68)	4-Nitroaniline	7.75	138	450693	38.77	ppm		95
70)	4,6-Dinitro-2-methylphenol	7.78	198	326362	50.51	ppm		95
71)	n-Nitrosodiphenylamine	7.86	169	1132222	38.68	ppm		99
72)	1,2-Diphenylhydrazine	7.91	77	2118519	52.37	ppm		94
74)	4-Bromophenyl-phenylether	8.35	248	439401	44.66	ppm		92
75)	Hexachlorobenzene	8.43	284	441571	47.02	ppm		98
76)	Pentachlorophenol	8.73	266	261577	42.28	ppm		98
77)	Phenanthrene	9.04	178	2513915	42.72	ppm		99
78)	Anthracene	9.12	178	2462750	41.81	ppm		99
79)	Carbazole	9.41	167	2405995	43.57	ppm		99
80)	Di-n-butylphthalate	10.10	149	3114545	45.16	ppm		98
81)	Fluoranthene	11.19	202	2584728	44.30	ppm		99
82)	Octadecane	8.89	57	914206	38.18	ppm		91
84)	Pyrene	11.63	202	2664604	40.43	ppm		97

(#) = qualifier out of range (m) = manual integration

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6610\F157070.D Vial: 13
Acq On : 13 May 2016 2:24 pm Operator: brittanp
Sample : op93867-msd Inst : MSF
Misc : op93867,ef6610,405,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 13 16:40:37 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri May 13 16:38:09 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
86)	Butylbenzylphthalate	13.23	149	1347173	41.61	ppm	89
88)	Benzo[a]anthracene	14.25	228	2288987	40.66	ppm	99
89)	3,3'-Dichlorobenzidine	14.30	252	1297343	66.16	ppm	99
90)	Chrysene	14.33	228	2216053	39.60	ppm	99
91)	bis(2-Ethylhexyl)phthalate	14.63	149	1817169	40.50	ppm	96
93)	Di-n-octylphthalate	16.08	149	3071171	41.07	ppm	98
94)	Benzo[b]fluoranthene	16.57	252	2275198	43.14	ppm	99
95)	Benzo[k]fluoranthene	16.63	252	2282077	44.21	ppm	99
96)	Benzo[a]pyrene	17.20	252	1964310	40.69	ppm	98
97)	Indeno[1,2,3-cd]pyrene	19.26	276	1901804	42.69	ppm	98
99)	Dibenz[a,h]anthracene	19.32	278	1907227	44.26	ppm	99
100)	7,12-Dimethylbenz(a)anthra	16.58	256	1017266	49.40	ppm	98
101)	Benzo[g,h,i]perylene	19.70	276	2046332	42.51	ppm	98
103)	Benzaldehyde	4.43	105	633741	39.57	ppm	96
107)	1,2,4,5-Tetrachlorobenzene	6.34	216	653667	35.71	ppm	98
109)	Atrazine	8.61	200	472870	48.10	ppm	92
111)	Benzidine	11.54	184	89455	2.77	ppm	97

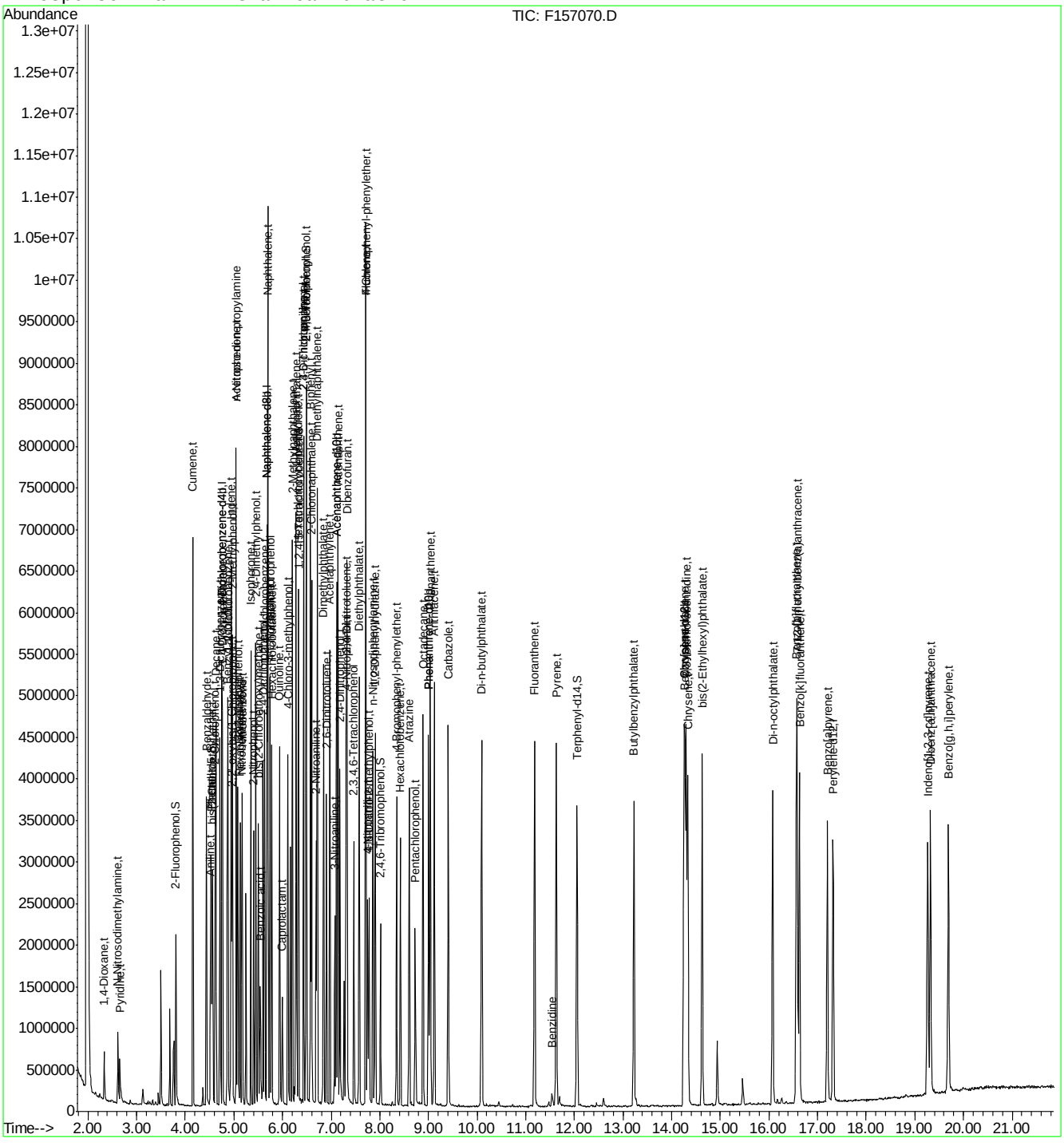
(#) = qualifier out of range (m) = manual integration (+) = signals summed
F157070.D MF6563.M Fri May 13 16:41:36 2016 RT1

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6610\F157070.D Vial: 13
Acq On : 13 May 2016 2:24 pm Operator: brittanp
Sample : op93867-msd Inst : MSF
Misc : op93867,ef6610,405,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 13 16:40 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri May 13 16:38:09 2016
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Kristi Schollenberger 05/25/16 11:33

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2594\
Data File : 2p59422.D
Acq On : 21 May 2016 3:59 am
Operator : seanb1
Sample : op94085-ms
Misc : op94085,e2p2594,30.2
ALS Vial : 23 Sample Multiplier: 1

Quant Time: May 23 17:14:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2557.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Apr 25 15:59:04 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.764	152	171602	40.00	ppm	0.00
24) Naphthalene-d8	5.823	136	591101	40.00	ppm	0.00
47) Acenaphthene-d10	7.267	164	371883	40.00	ppm	0.00
69) Phenanthrene-d10	8.593	188	655434	40.00	ppm	0.00
83) Chrysene-d12	11.942	240	646311	40.00	ppm	0.00
92) Perylene-d12	13.958	264	492229	40.00	ppm	0.01
102) 1,4-Dichlorobenzene-d4a	4.764	152	171602	40.00	ppm	0.00
104) Naphthalene-d8a	5.823	136	591101	40.00	ppm	# 0.00
106) Acenaphthene-d10a	7.267	164	371883	40.00	ppm	0.00
109) Chrysene-d12a	11.942	240	646311	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.705	112	181430	26.10	ppm	0.03
Spiked Amount 50.000	Range 11 - 58		Recovery = 52.20%			
8) Phenol-d5	4.523	99	238329	29.26	ppm	0.01
Spiked Amount 50.000	Range 10 - 59		Recovery = 58.52%#			
25) Nitrobenzene-d5	5.234	82	272144	46.69	ppm	0.05
Spiked Amount 50.000	Range 19 - 61		Recovery = 93.38%#			
51) 2-Fluorobiphenyl	6.711	172	424239	36.66	ppm	-0.01
Spiked Amount 50.000	Range 21 - 58		Recovery = 73.32%#			
73) 2,4,6-Tribromophenol	7.941	330	50448	34.67	ppm	0.01
Spiked Amount 50.000	Range 12 - 68		Recovery = 69.34%#			
85) Terphenyl-d14	10.476	244	458529	35.25	ppm	0.07
Spiked Amount 50.000	Range 16 - 65		Recovery = 70.50%#			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.063	88	45620	14.47	ppm #	64
3) Pyridine	2.400	79	57734	7.40	ppm #	58
4) N-Nitrosodimethylamine	2.378	74	97958	21.25	ppm #	69
6) Indene	4.978	116	335638	34.83	ppm	93
7) Cumene	4.085	105	515177	33.86	ppm	91
9) Phenol	4.534	94	253648	29.38	ppm	87
10) Aniline	4.496	93	90641	9.14	ppm #	47
11) bis(2-Chloroethyl)ether	4.550	93	201988	33.20	ppm	92
12) 2-Chlorophenol	4.609	128	192041	30.50	ppm	92
13) Decane	4.625	57	211646	22.57	ppm	86
14) 1,3-Dichlorobenzene	4.716	146	211871	30.62	ppm	99
15) 1,4-Dichlorobenzene	4.780	146	216843	31.84	ppm	98
16) Benzyl alcohol	4.903	108	126795	32.15	ppm #	49
17) 1,2-Dichlorobenzene	4.903	146	206166	32.76	ppm	96
18) Acetophenone	5.106	105	303632	39.27	ppm	94
19) 2-Methylphenol	5.021	108	147018	27.21	ppm	97
20) 2,2'-oxybis(1-Chloropr...	4.999	121	52436	29.57	ppm #	1
21) 3&4-Methylphenol	5.149	108	165510	29.35	ppm	97
22) n-Nitroso-di-n-propyla...	5.111	70	168026	40.92	ppm	78
23) Hexachloroethane	5.181	201	80873	39.13	ppm #	80
26) Nitrobenzene	5.251	77	266542	45.32	ppm	86
27) Quinoline	6.117	129	309140	29.49	ppm	90
28) Isophorone	5.448	82	452489	42.96	ppm	83

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2594\
Data File : 2p59422.D
Acq On : 21 May 2016 3:59 am
Operator : seanb1
Sample : op94085-ms
Misc : op94085,e2p2594,30.2
ALS Vial : 23 Sample Multiplier: 1

Quant Time: May 23 17:14:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2557.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Apr 25 15:59:04 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
29) 2-Nitrophenol	5.513	139	97185	33.43	ppm	#	52
30) 2,4-Dimethylphenol	5.571	107	154239	29.83	ppm		81
31) Benzoic acid	5.689	105	101619m	25.10	ppm		
32) bis(2-Chloroethoxy)met...	5.630	93	218514	33.36	ppm		90
33) 2,4-Dichlorophenol	5.732	162	160850	36.15	ppm		87
34) 2,6-Dichlorophenol	5.903	162	142619	34.03	ppm		92
36) 1,2,4-Trichlorobenzene	5.775	180	184989	37.72	ppm		97
38) Naphthalene	5.839	128	528168	34.69	ppm		98
39) 4-Chloroaniline	5.898	127	82110	12.47	ppm		81
40) 2,3-Dichloroaniline	6.652	161	187999	34.48	ppm		84
41) Caprolactam	6.203	113	53456	31.32	ppm		91
42) Hexachlorobutadiene	5.935	225	121464	50.09	ppm		98
43) 4-Chloro-3-methylphenol	6.331	107	180563	39.54	ppm		96
44) 2-Methylnaphthalene	6.411	141	295663	34.76	ppm		89
45) 1-Methylnaphthalene	6.491	141	333228	38.22	ppm		82
46) Dimethylnaphthalene	6.925	156	340048	39.59	ppm		84
48) Hexachlorocyclopentadiene	6.534	237	76822	25.69	ppm		94
49) 2,4,6-Trichlorophenol	6.663	196	122118	35.50	ppm		92
50) 2,4,5-Trichlorophenol	6.711	196	123644	33.38	ppm		98
52) 2-Chloronaphthalene	6.812	162	356681	32.68	ppm		95
53) Biphenyl	6.796	154	463442	33.83	ppm		93
54) 2-Nitroaniline	6.909	65	168501	44.44	ppm	#	77
55) Dimethylphthalate	7.053	163	421827	35.60	ppm		99
56) Acenaphthylene	7.155	152	544801	30.67	ppm		99
57) 2,6-Dinitrotoluene	7.112	165	91597	36.43	ppm		89
58) 3-Nitroaniline	7.251	138	56335	16.97	ppm	#	49
59) Acenaphthene	7.294	153	375682	34.52	ppm		96
60) 2,4-Dinitrophenol	7.347	184	55653	45.49	ppm		86
61) 4-Nitrophenol	7.443	109	93061	61.98	ppm	#	29
62) Dibenzofuran	7.438	168	482273	33.52	ppm		81
63) 2,4-Dinitrotoluene	7.443	165	129115	39.19	ppm	#	53
64) 2,3,4,6-Tetrachlorophenol	7.556	232	84887	30.12	ppm		97
65) Diethylphthalate	7.631	149	433316	36.04	ppm		94
66) Fluorene	7.727	166	426847	35.72	ppm		96
67) 4-Chlorophenyl-phenyle...	7.722	204	215874	41.33	ppm		90
68) 4-Nitroaniline	7.764	138	60180	18.36	ppm		83
70) 4,6-Dinitro-2-methylph...	7.791	198	53204	27.75	ppm	#	67
71) n-Nitrosodiphenylamine	7.829	169	277740	31.30	ppm		96
72) 1,2-Diphenylhydrazine	7.861	77	542889	38.05	ppm		94
74) 4-Bromophenyl-phenylether	8.155	248	128221	38.43	ppm		86
75) Hexachlorobenzene	8.214	284	129705	36.31	ppm		96
76) Pentachlorophenol	8.422	266	42220	17.49	ppm		82
77) Phenanthrene	8.620	178	611356	31.76	ppm		98
78) Anthracene	8.668	178	582669	30.52	ppm		98
79) Carbazole	8.850	167	422899	23.56	ppm		93
80) Di-n-butylphthalate	9.230	149	754370	31.58	ppm		95
81) Fluoranthene	9.963	202	730578	34.94	ppm		89
82) Octadecane	8.476	43	332657	39.48	ppm		89
84) Pyrene	10.252	202	732871	32.85	ppm		99
86) Butylbenzylphthalate	11.188	149	323694	29.57	ppm		86

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2594\
Data File : 2p59422.D
Acq On : 21 May 2016 3:59 am
Operator : seanb1
Sample : op94085-ms
Misc : op94085,e2p2594,30.2
ALS Vial : 23 Sample Multiplier: 1

Quant Time: May 23 17:14:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2557.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Apr 25 15:59:04 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
88)	Benzo[a]anthracene	11.926	228	654035	31.72	ppm		96
89)	3,3'-Dichlorobenzidine	11.926	252	272623	39.08	ppm		91
90)	Chrysene	11.979	228	565864	30.35	ppm		96
91)	bis(2-Ethylhexyl)phtha...	12.054	149	432109	31.57	ppm		95
93)	Di-n-octylphthalate	13.006	149	685113	30.61	ppm		95
94)	Benzo[b]fluoranthene	13.455	252	546353	31.95	ppm		87
95)	Benzo[k]fluoranthene	13.493	252	491540	32.90	ppm		82
96)	Benzo[a]pyrene	13.878	252	462689	31.88	ppm		89
97)	Indeno[1,2,3-cd]pyrene	15.445	276	421366m	33.58	ppm		
99)	Dibenz[a,h]anthracene	15.477	278	414308	32.97	ppm		81
100)	7,12-Dimethylbenz(a)an...	13.445	256	230413	33.05	ppm		97
101)	Benzo[g,h,i]perylene	15.873	276	408307	30.77	ppm		73
103)	Benzaldehyde	4.400	105	178645	39.93	ppm	#	74
107)	Atrazine	8.326	215	61391	42.83	ppm	#	70
108)	1,2,4,5-Tetrachloroben...	6.550	216	210315	45.52	ppm		98

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

7.4.3

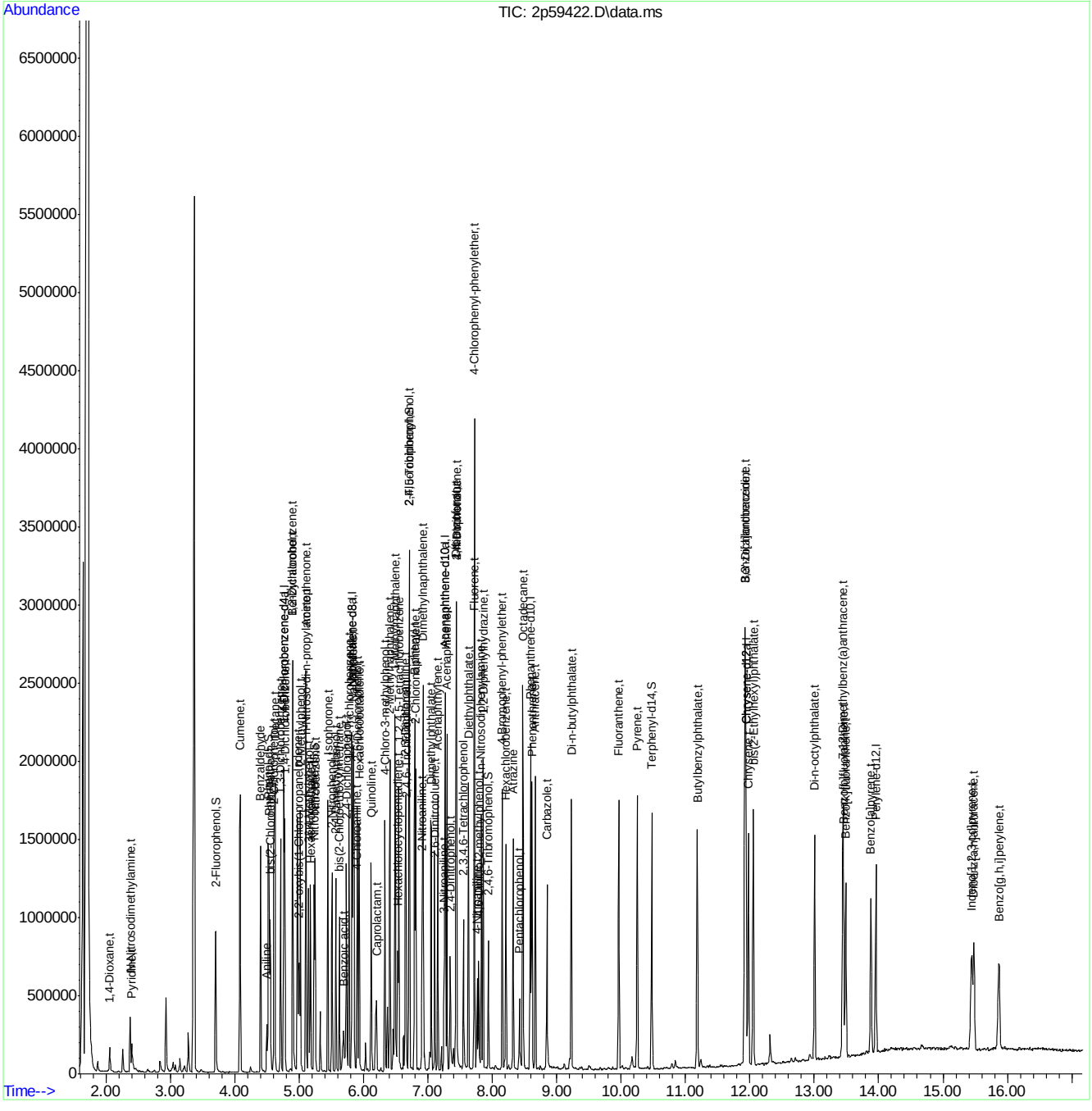
7

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2594\
Data File : 2p59422.D
Acq On : 21 May 2016 3:59 am
Operator : seanb1
Sample : op94085-ms
Misc : op94085,e2p2594,30.2
ALS Vial : 23 Sample Multiplier: 1

Quant Time: May 23 17:14:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2557.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Apr 25 15:59:04 2016
Response via : Initial Calibration



Manual Integration Approval Summary

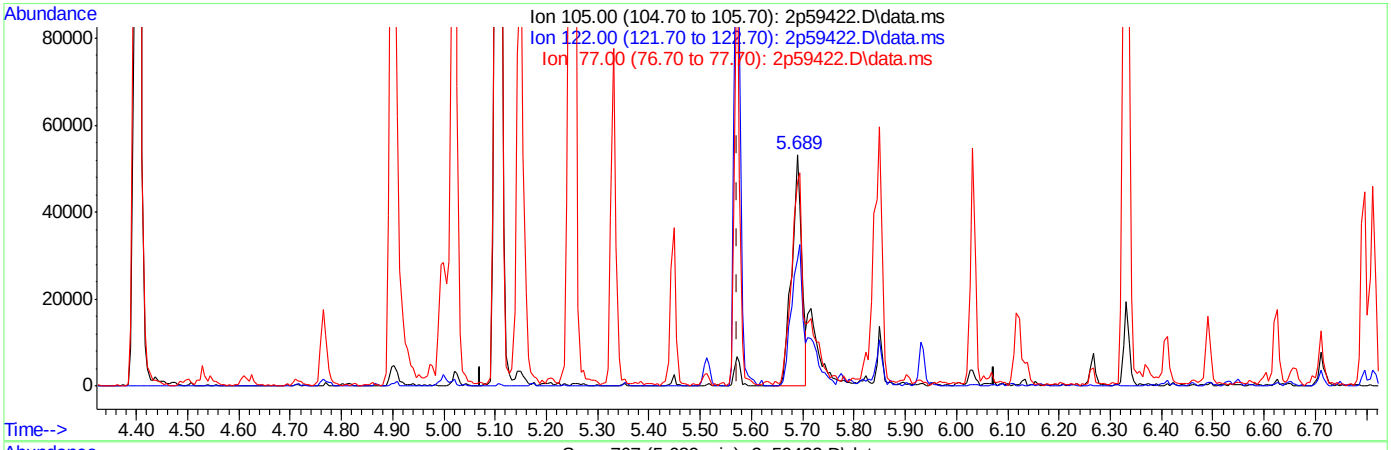
Sample Number:	OP94085-MS	**Method:**	SW846 8270D
Lab FileID:	2P59422.D	**Analyst approved:**	05/23/16 17:19 Robert LaPosta
Injection Time:	05/21/16 03:59	**Supervisor approved:**	05/25/16 11:33 Kristi Schollenberger

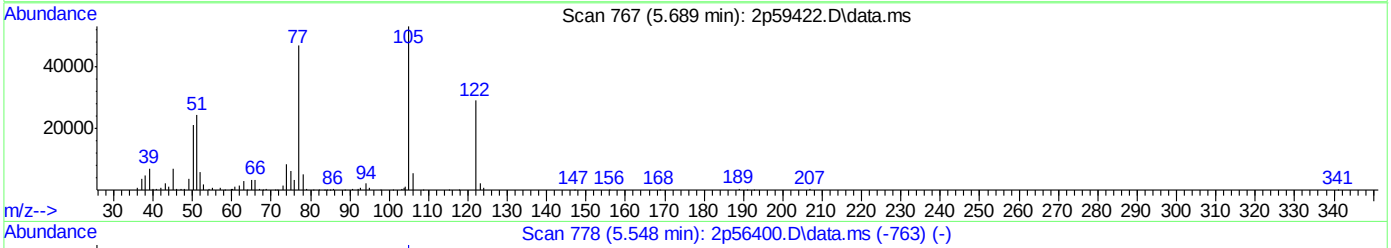
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic acid	65-85-0		5.69	Split peak
Indeno(1,2,3-cd)pyrene	193-39-5		15.45	Overlapping peak

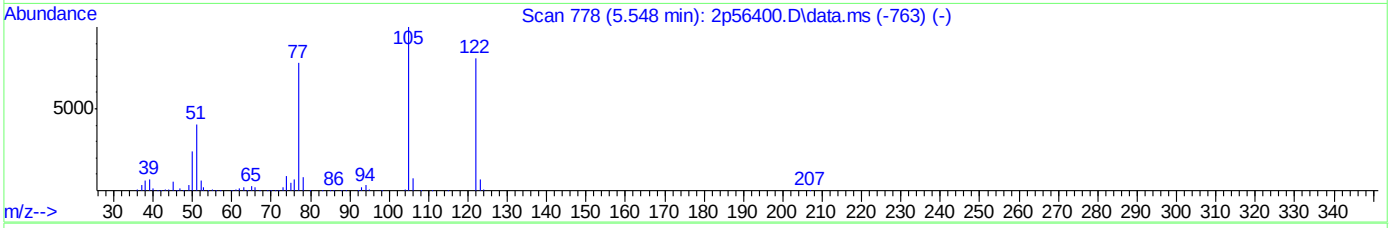
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P2594\
Data File : 2p59422.D
Acq On : 21 May 2016 3:59 am
Operator : seanb1
Sample : op94085-ms
Misc : op94085,e2p2594,30.2
ALS Vial : 23 Sample Multiplier: 1

Quant Time: May 23 10:09:07 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2557.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Apr 25 15:59:04 2016
Response via : Initial Calibration







TIC: 2p59422.D\data.ms

(31) Benzoic acid (t)

5.689min (+0.116) 17.85ppm

response 72256

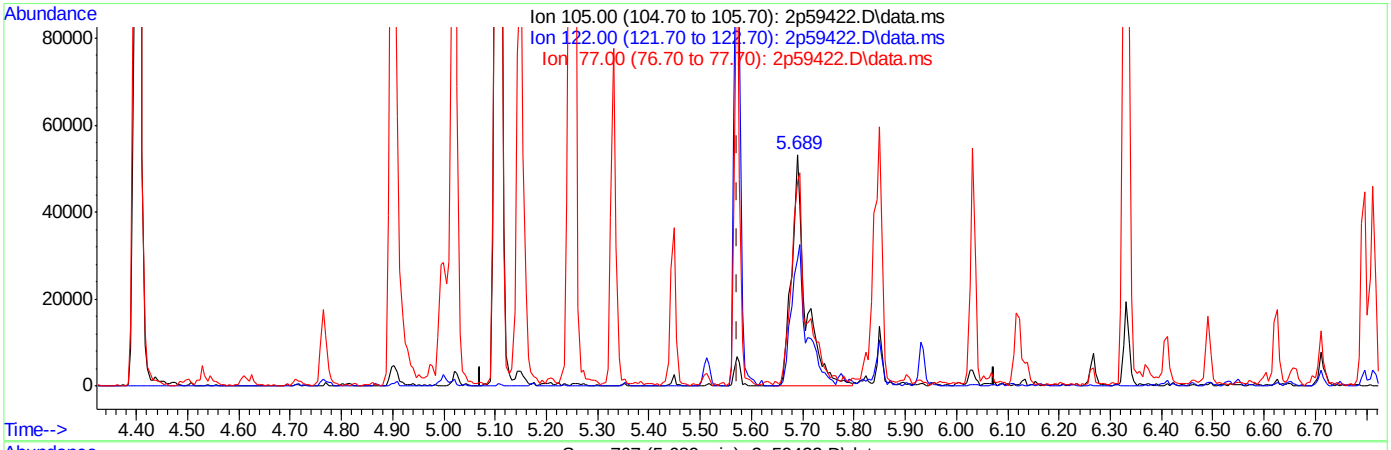
Ion	Exp%	Act%
105.00	100	100
122.00	78.30	51.41
77.00	68.20	84.53
0.00	0.00	0.00

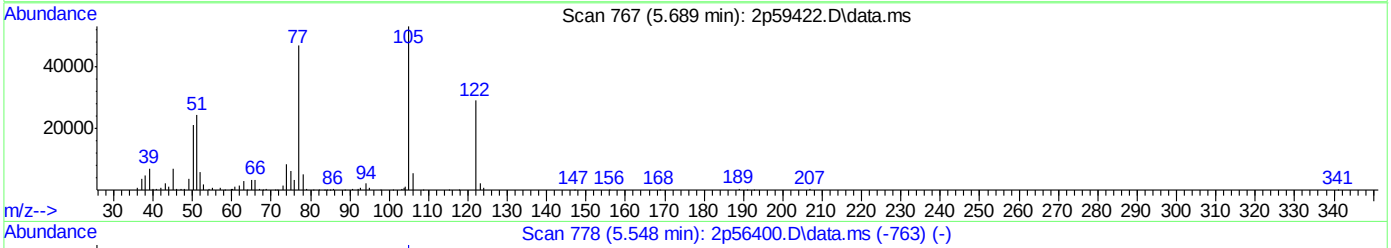
SGS ACCUTEST JC20098

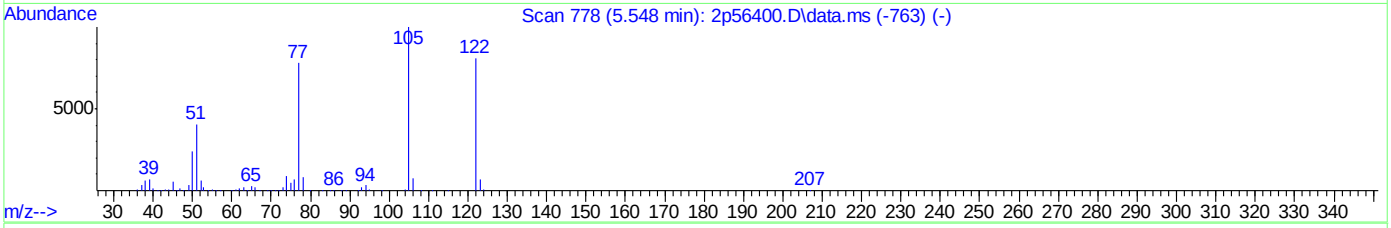
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P2594\
Data File : 2p59422.D
Acq On : 21 May 2016 3:59 am
Operator : seanb1
Sample : op94085-ms
Misc : op94085,e2p2594,30.2
ALS Vial : 23 Sample Multiplier: 1

Quant Time: May 23 10:09:07 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2557.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Apr 25 15:59:04 2016
Response via : Initial Calibration







TIC: 2p59422.D\data.ms

(31) Benzoic acid (t)

5.689min (+0.116) 25.10ppm m

response 101619

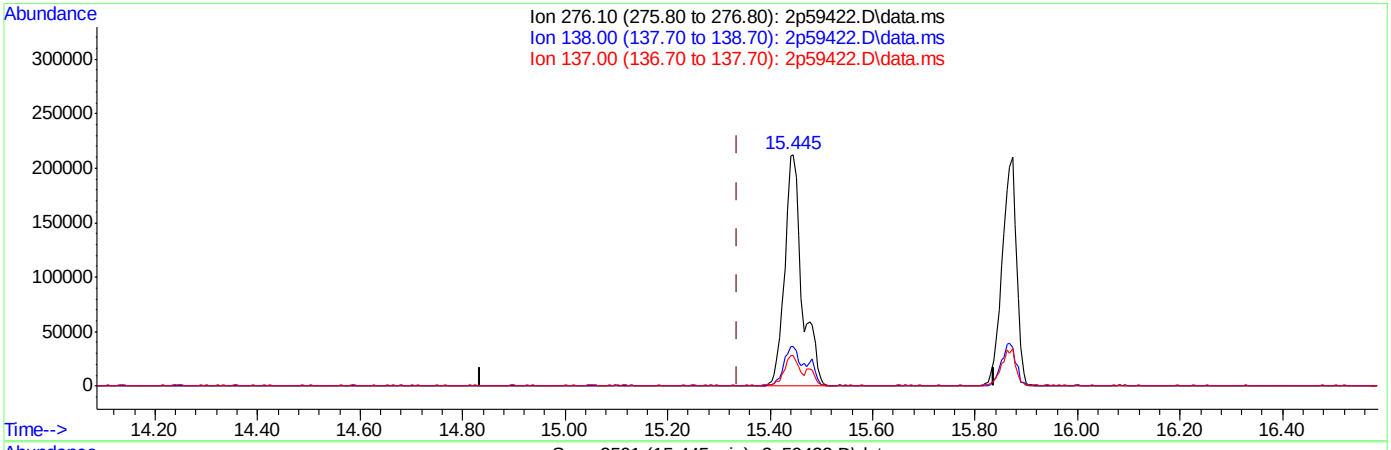
Ion	Exp%	Act%
105.00	100	100
122.00	78.30	54.69
77.00	68.20	88.16
0.00	0.00	0.00

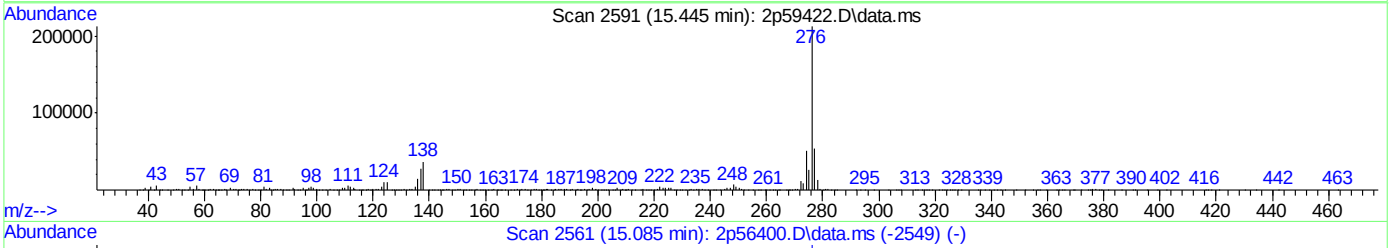
SGS ACCUTEST JC20098

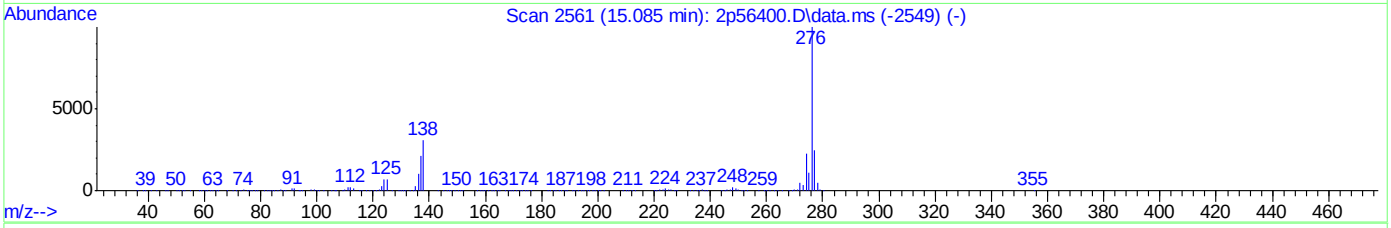
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P2594\
Data File : 2p59422.D
Acq On : 21 May 2016 3:59 am
Operator : seanb1
Sample : op94085-ms
Misc : op94085,e2p2594,30.2
ALS Vial : 23 Sample Multiplier: 1

Quant Time: May 23 10:09:07 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2557.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Apr 25 15:59:04 2016
Response via : Initial Calibration







TIC: 2p59422.D\data.ms

(97) Indeno[1,2,3-cd]pyrene (t)

15.445min (+0.109) 39.71ppm

response 498359

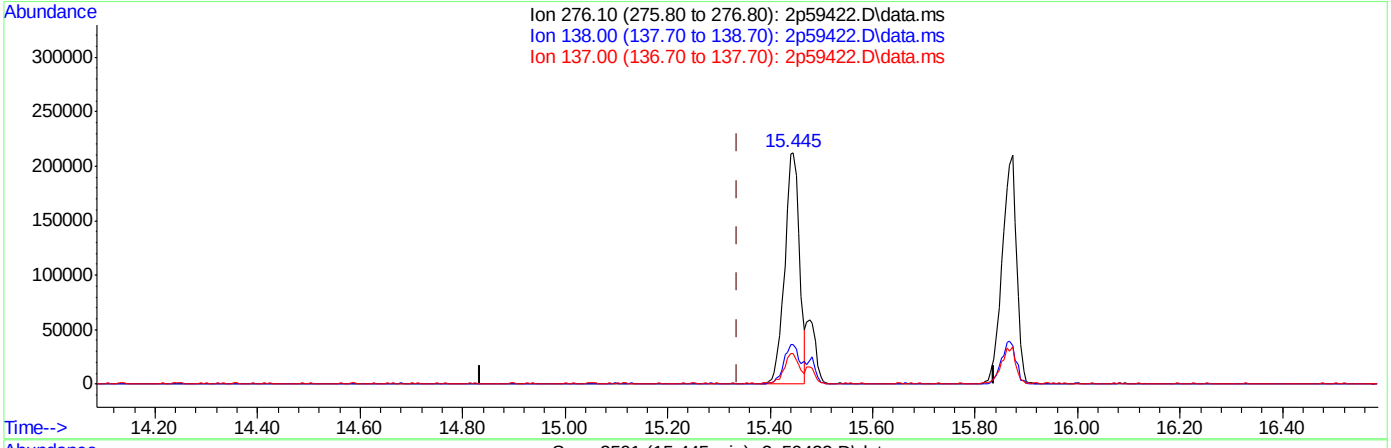
Ion	Exp%	Act%
276.10	100	100
138.00	21.00	17.16
137.00	16.70	13.15
0.00	0.00	0.00

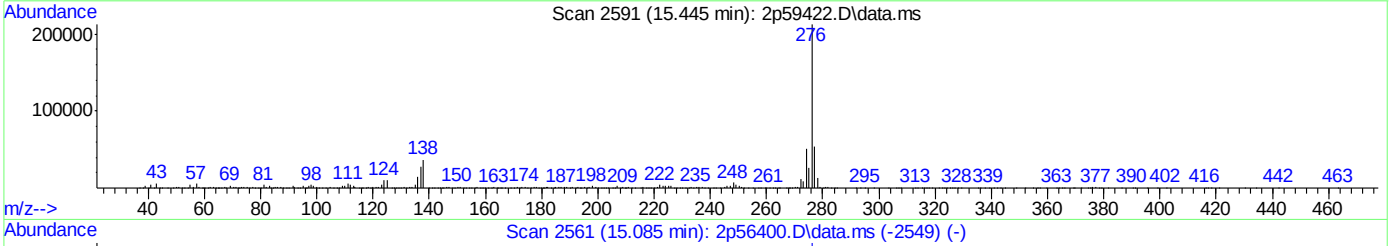
SGS ACCUTEST JC20098

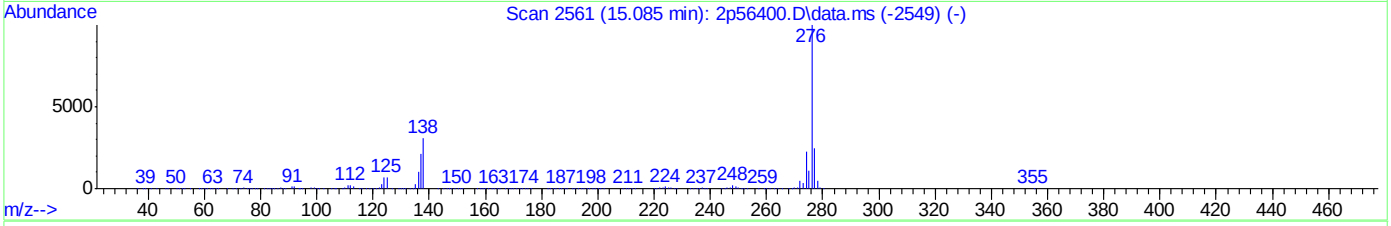
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P2594\
Data File : 2p59422.D
Acq On : 21 May 2016 3:59 am
Operator : seanb1
Sample : op94085-ms
Misc : op94085,e2p2594,30.2
ALS Vial : 23 Sample Multiplier: 1

Quant Time: May 23 10:09:07 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2557.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Apr 25 15:59:04 2016
Response via : Initial Calibration







TIC: 2p59422.D\data.ms

(97) Indeno[1,2,3-cd]pyrene (t)

15.445min (+0.109) 33.58ppm m

response 421366

Ion	Exp%	Act%
276.10	100	100
138.00	21.00	17.30
137.00	16.70	13.31
0.00	0.00	0.00

SGS ACCUTEST JC20098

Manual Integrations APPROVED (compounds with "m" flag)
Kristi Schollenberger 05/25/16 11:33

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2594\
Data File : 2p59423.D
Acq On : 21 May 2016 4:21 am
Operator : seanb1
Sample : op94085-msd
Misc : op94085,e2p2594,30.1
ALS Vial : 24 Sample Multiplier: 1

Quant Time: May 23 17:18:26 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2557.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon May 23 13:11:07 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.764	152	214967	40.00	ppm	0.00
24) Naphthalene-d8	5.823	136	733031	40.00	ppm	0.00
47) Acenaphthene-d10	7.267	164	462669	40.00	ppm	0.00
69) Phenanthrene-d10	8.594	188	796073	40.00	ppm	0.00
83) Chrysene-d12	11.947	240	811503	40.00	ppm	0.01
92) Perylene-d12	13.964	264	635719	40.00	ppm	0.02
102) 1,4-Dichlorobenzene-d4a	4.764	152	214967	40.00	ppm	0.00
104) Naphthalene-d8a	5.823	136	733031	40.00	ppm	0.00
106) Acenaphthene-d10a	7.267	164	462669	40.00	ppm	0.00
109) Chrysene-d12a	11.947	240	811503	40.00	ppm	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	3.705	112	263573	30.27	ppm	0.03
Spiked Amount 50.000	Range 11 - 58		Recovery = 60.54%#			
8) Phenol-d5	4.523	99	341847	33.50	ppm	0.01
Spiked Amount 50.000	Range 10 - 59		Recovery = 67.00%#			
25) Nitrobenzene-d5	5.235	82	352492	48.77	ppm	0.05
Spiked Amount 50.000	Range 19 - 61		Recovery = 97.54%#			
51) 2-Fluorobiphenyl	6.716	172	600259	41.70	ppm	0.00
Spiked Amount 50.000	Range 21 - 58		Recovery = 83.40%#			
73) 2,4,6-Tribromophenol	7.941	330	74147	41.95	ppm	0.01
Spiked Amount 50.000	Range 12 - 68		Recovery = 83.90%#			
85) Terphenyl-d14	10.476	244	669352	40.98	ppm	0.07
Spiked Amount 50.000	Range 16 - 65		Recovery = 81.96%#			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.074	88	55646	14.09	ppm	94
3) Pyridine	2.411	79	104623	10.71	ppm #	67
4) N-Nitrosodimethylamine	2.389	74	130555	22.61	ppm #	79
6) Indene	4.978	116	461878	38.26	ppm	96
7) Cumene	4.085	105	700787	36.77	ppm	90
9) Phenol	4.534	94	368414	34.07	ppm	87
10) Aniline	4.502	93	131718	10.61	ppm #	47
11) bis(2-Chloroethyl)ether	4.555	93	280235	36.77	ppm	99
12) 2-Chlorophenol	4.609	128	262900	33.33	ppm	92
13) Decane	4.625	57	296345	25.22	ppm	82
14) 1,3-Dichlorobenzene	4.716	146	291467	33.63	ppm	97
15) 1,4-Dichlorobenzene	4.780	146	289447	33.93	ppm	98
16) Benzyl alcohol	4.903	108	170887	34.59	ppm #	56
17) 1,2-Dichlorobenzene	4.903	146	282623	35.85	ppm	94
18) Acetophenone	5.106	105	406905	42.01	ppm	91
19) 2-Methylphenol	5.021	108	234209	34.60	ppm	97
20) 2,2'-oxybis(1-Chloropr...	4.999	121	74080	33.34	ppm #	1
21) 3&4-Methylphenol	5.149	108	239510	33.91	ppm	95
22) n-Nitroso-di-n-propyla...	5.117	70	217921	42.36	ppm	93
23) Hexachloroethane	5.181	201	106188	41.01	ppm #	80
26) Nitrobenzene	5.251	77	361412	49.56	ppm	83
27) Quinoline	6.123	129	444224	34.17	ppm	93
28) Isophorone	5.449	82	606042	46.40	ppm	80

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2594\
Data File : 2p59423.D
Acq On : 21 May 2016 4:21 am
Operator : seanb1
Sample : op94085-msd
Misc : op94085,e2p2594,30.1
ALS Vial : 24 Sample Multiplier: 1

Quant Time: May 23 17:18:26 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2557.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon May 23 13:11:07 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
29)	2-Nitrophenol	5.513	139	137472	38.13	ppm		63
30)	2,4-Dimethylphenol	5.572	107	304240	47.45	ppm		80
31)	Benzoic acid	5.711	105	184681m	36.79	ppm		
32)	bis(2-Chloroethoxy)met...	5.630	93	296916	36.55	ppm		92
33)	2,4-Dichlorophenol	5.737	162	228011	41.32	ppm		93
34)	2,6-Dichlorophenol	5.909	162	208528	40.12	ppm		94
36)	1,2,4-Trichlorobenzene	5.775	180	254672	41.88	ppm		98
38)	Naphthalene	5.839	128	717220	37.98	ppm		96
39)	4-Chloroaniline	5.903	127	126765	15.53	ppm		84
40)	2,3-Dichloroaniline	6.652	161	257349	38.06	ppm		87
41)	Caprolactam	6.213	113	71304	33.69	ppm	#	87
42)	Hexachlorobutadiene	5.935	225	163779	54.46	ppm		96
43)	4-Chloro-3-methylphenol	6.331	107	268515	47.41	ppm		86
44)	2-Methylnaphthalene	6.411	141	428823	40.66	ppm		88
45)	1-Methylnaphthalene	6.492	141	448706	41.50	ppm		85
46)	Dimethylnaphthalene	6.925	156	463274	43.50	ppm		89
48)	Hexachlorocyclopentadiene	6.534	237	132603	35.64	ppm		92
49)	2,4,6-Trichlorophenol	6.663	196	177378	41.45	ppm		96
50)	2,4,5-Trichlorophenol	6.711	196	179676	38.99	ppm		99
52)	2-Chloronaphthalene	6.812	162	480989	35.42	ppm		95
53)	Biphenyl	6.796	154	635111	37.27	ppm		98
54)	2-Nitroaniline	6.914	65	228270	48.40	ppm	#	79
55)	Dimethylphthalate	7.053	163	576460	39.10	ppm		99
56)	Acenaphthylene	7.155	152	723029	32.71	ppm		99
57)	2,6-Dinitrotoluene	7.112	165	125606	40.16	ppm		77
58)	3-Nitroaniline	7.251	138	84648	20.50	ppm		95
59)	Acenaphthene	7.294	153	510827	37.73	ppm		99
60)	2,4-Dinitrophenol	7.347	184	84500	54.42	ppm		96
61)	4-Nitrophenol	7.444	109	131049	70.15	ppm	#	62
62)	Dibenzofuran	7.438	168	734866	41.06	ppm		82
63)	2,4-Dinitrotoluene	7.449	165	182688	44.57	ppm		85
64)	2,3,4,6-Tetrachlorophenol	7.556	232	131477	37.50	ppm		94
65)	Diethylphthalate	7.631	149	620351	41.48	ppm		96
66)	Fluorene	7.727	166	617718	41.54	ppm		95
67)	4-Chlorophenyl-phenyle...	7.722	204	305131	46.96	ppm		90
68)	4-Nitroaniline	7.765	138	79320	19.45	ppm	#	69
70)	4,6-Dinitro-2-methylph...	7.791	198	76502	32.86	ppm		77
71)	n-Nitrosodiphenylamine	7.834	169	391632	36.34	ppm		92
72)	1,2-Diphenylhydrazine	7.861	77	738559	42.62	ppm		94
74)	4-Bromophenyl-phenylether	8.160	248	185567	45.80	ppm		95
75)	Hexachlorobenzene	8.214	284	178923	41.24	ppm		97
76)	Pentachlorophenol	8.422	266	66925	22.82	ppm		94
77)	Phenanthrene	8.620	178	905940	38.75	ppm		99
78)	Anthracene	8.674	178	811433	34.99	ppm		99
79)	Carbazole	8.850	167	612218	28.08	ppm		96
80)	Di-n-butylphthalate	9.230	149	1097638	37.83	ppm		97
81)	Fluoranthene	9.968	202	1153276	45.42	ppm		87
82)	Octadecane	8.476	43	481225	47.02	ppm		87
84)	Pyrene	10.257	202	1145207	40.88	ppm		97
86)	Butylbenzylphthalate	11.188	149	462671	33.66	ppm		83

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2594\
Data File : 2p59423.D
Acq On : 21 May 2016 4:21 am
Operator : seanb1
Sample : op94085-msd
Misc : op94085,e2p2594,30.1
ALS Vial : 24 Sample Multiplier: 1

Quant Time: May 23 17:18:26 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2557.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon May 23 13:11:07 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
88)	Benzo[a]anthracene	11.926	228	1002869	38.74	ppm		96
89)	3,3'-Dichlorobenzidine	11.931	252	434914	49.65	ppm		95
90)	Chrysene	11.985	228	828260	35.38	ppm		98
91)	bis(2-Ethylhexyl)phtha...	12.054	149	595508	34.65	ppm		93
93)	Di-n-octylphthalate	13.006	149	991547	34.30	ppm		99
94)	Benzo[b]fluoranthene	13.461	252	838092	37.94	ppm		85
95)	Benzo[k]fluoranthene	13.498	252	719339	37.28	ppm		85
96)	Benzo[a]pyrene	13.883	252	722156	38.53	ppm		88
97)	Indeno[1,2,3-cd]pyrene	15.451	276	662289m	40.86	ppm		
99)	Dibenz[a,h]anthracene	15.488	278	601975	37.09	ppm		81
100)	7,12-Dimethylbenz(a)an...	13.450	256	315658	35.06	ppm		97
101)	Benzo[g,h,i]perylene	15.878	276	617920	36.06	ppm		75
103)	Benzaldehyde	4.406	105	240340	42.88	ppm	#	81
107)	Atrazine	8.332	215	86957	48.77	ppm	#	69
108)	1,2,4,5-Tetrachloroben...	6.550	216	291170	50.65	ppm		97
110)	Benzidine	10.182	184	2096	0.47	ppm		79

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

7.4.4

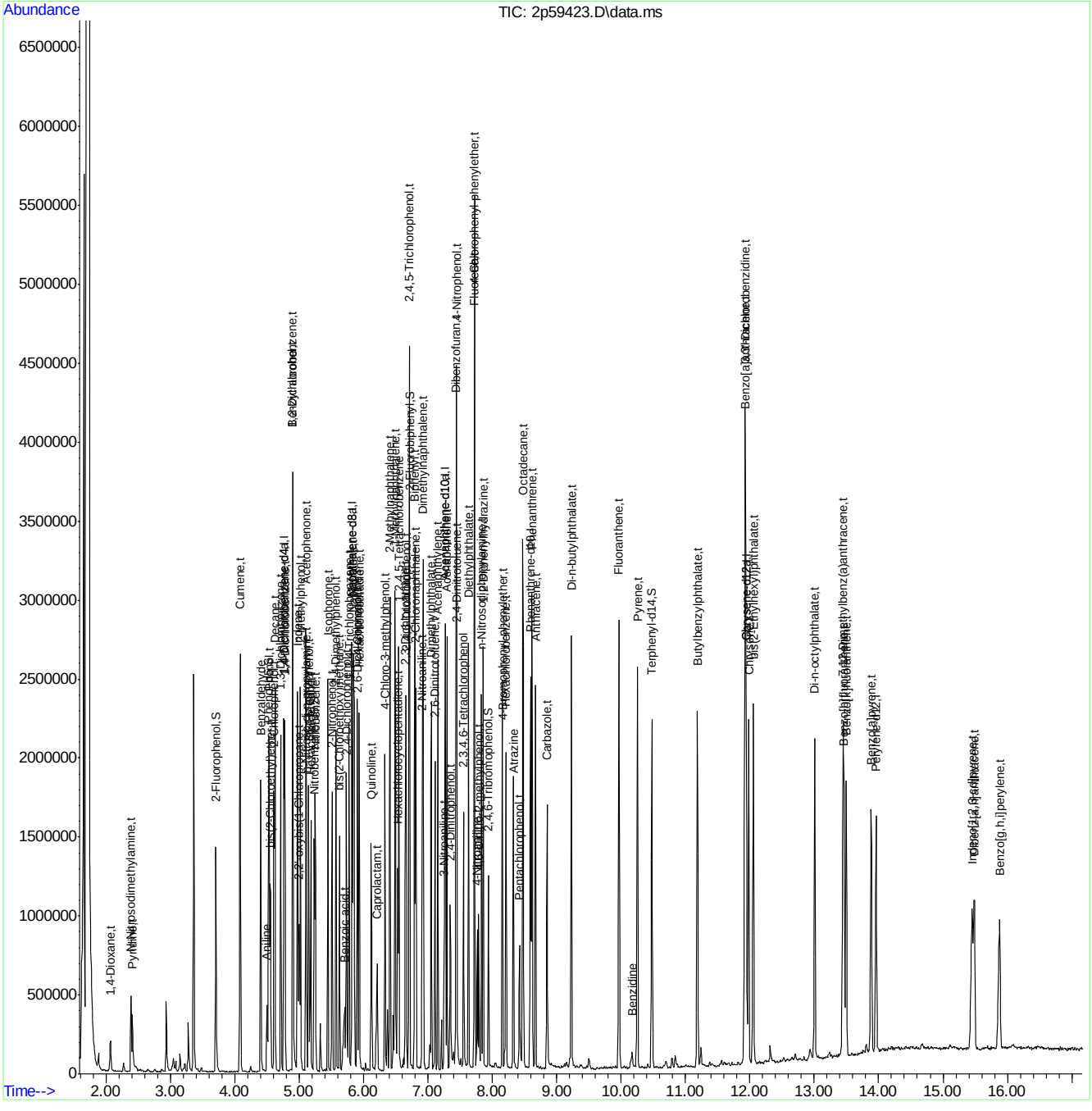
7

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2594\
Data File : 2p59423.D
Acq On : 21 May 2016 4:21 am
Operator : seanb1
Sample : op94085-msd
Misc : op94085,e2p2594,30.1
ALS Vial : 24 Sample Multiplier: 1

Quant Time: May 23 17:18:26 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2557.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon May 23 13:11:07 2016
Response via : Initial Calibration



SGS ACCUTEST JC20098

Manual Integration Approval Summary

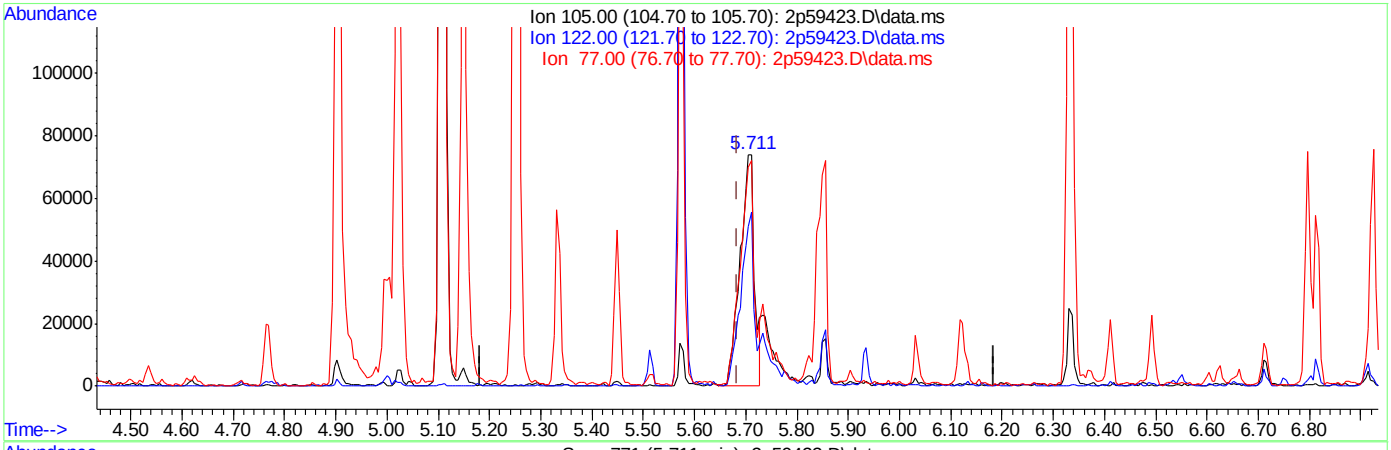
Sample Number:	OP94085-MSD	**Method:**	SW846 8270D
Lab FileID:	2P59423.D	**Analyst approved:**	05/23/16 17:19 Robert LaPosta
Injection Time:	05/21/16 04:21	**Supervisor approved:**	05/25/16 11:33 Kristi Schollenberger

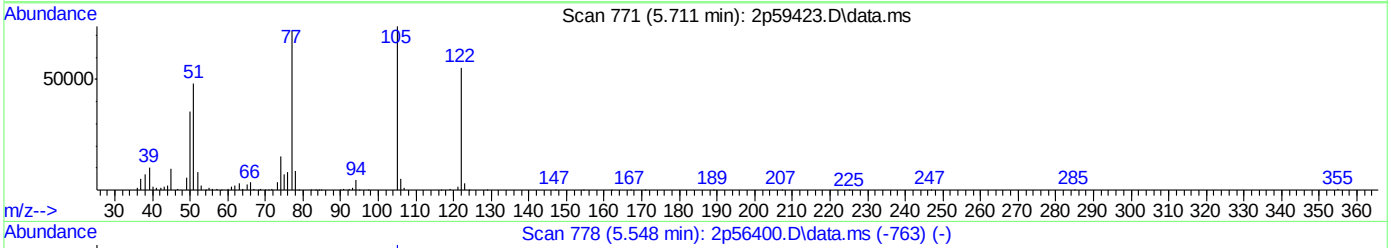
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic acid	65-85-0		5.71	Split peak
Indeno(1,2,3-cd)pyrene	193-39-5		15.45	Overlapping peak

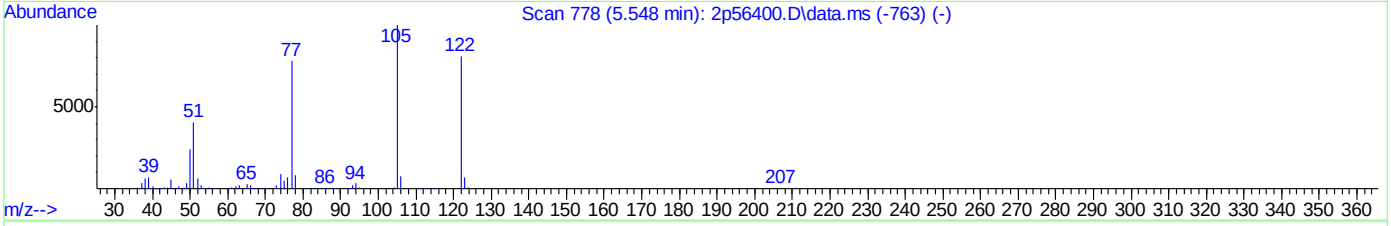
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P2594\
Data File : 2p59423.D
Acq On : 21 May 2016 4:21 am
Operator : seanb1
Sample : op94085-msd
Misc : op94085,e2p2594,30.1
ALS Vial : 24 Sample Multiplier: 1

Quant Time: May 23 17:16:29 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2557.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon May 23 13:11:07 2016
Response via : Initial Calibration







TIC: 2p59423.D\data.ms

(31) Benzoic acid (t)

5.711min (+0.027) 28.65ppm

response 143837

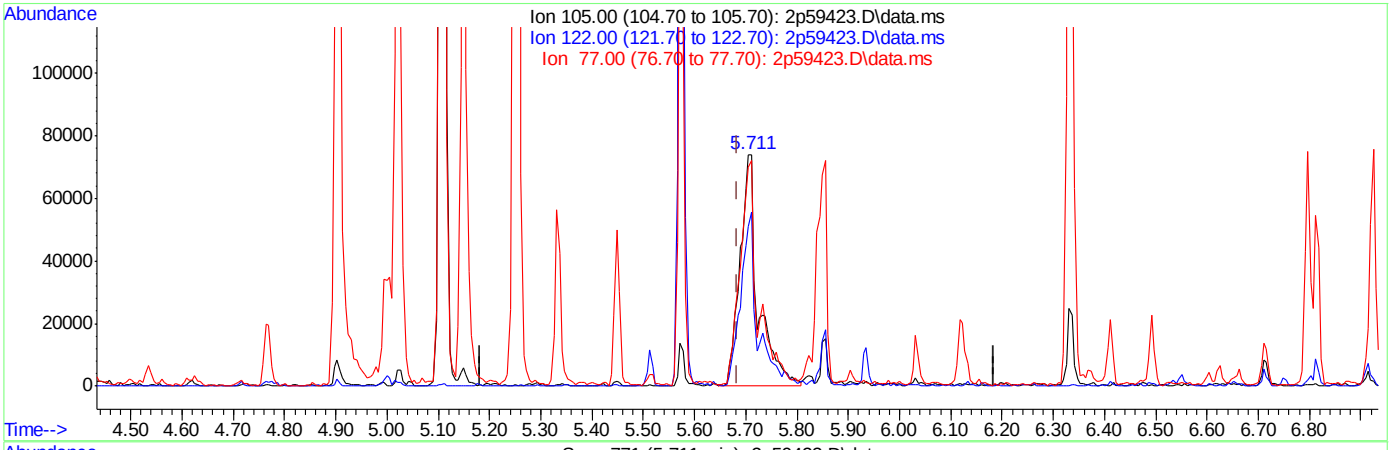
Ion	Exp%	Act%
105.00	100	100
122.00	78.30	77.23
77.00	99.20	97.83
0.00	0.00	0.00

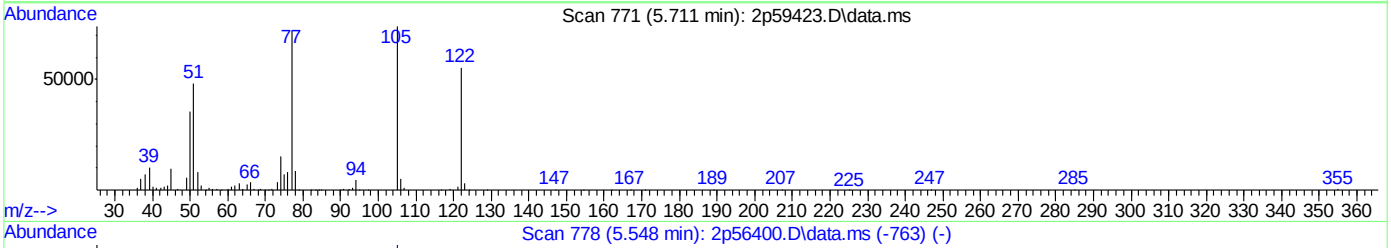
SGS ACCUTEST JC20098

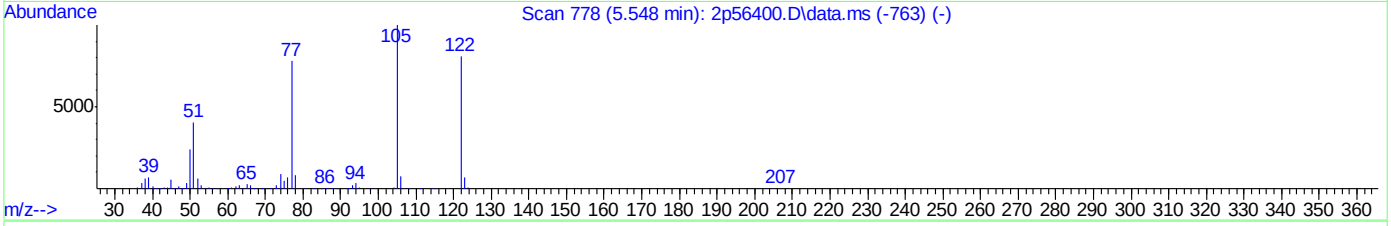
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P2594\
Data File : 2p59423.D
Acq On : 21 May 2016 4:21 am
Operator : seanb1
Sample : op94085-msd
Misc : op94085,e2p2594,30.1
ALS Vial : 24 Sample Multiplier: 1

Quant Time: May 23 17:16:29 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2557.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon May 23 13:11:07 2016
Response via : Initial Calibration







TIC: 2p59423.D\data.ms

(31) Benzoic acid (t)

5.711min (+0.027) 36.79ppm m

response 184681

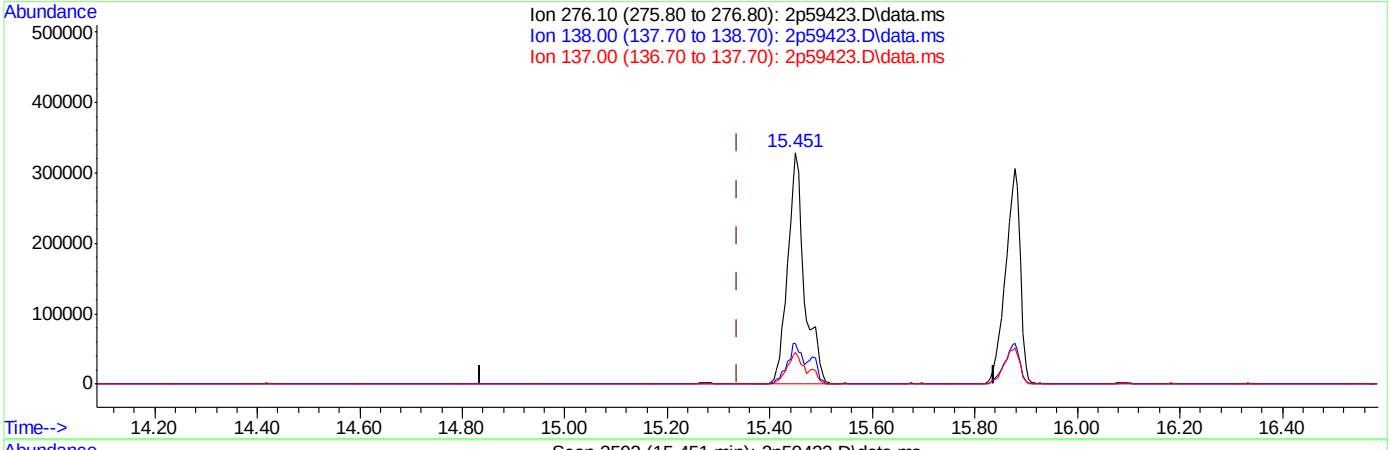
Ion	Exp%	Act%
105.00	100	100
122.00	78.30	74.97
77.00	99.20	97.34
0.00	0.00	0.00

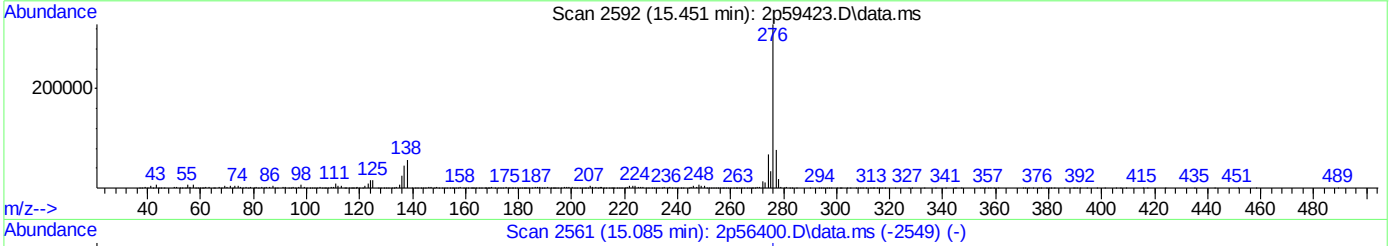
SGS ACCUTEST JC20098

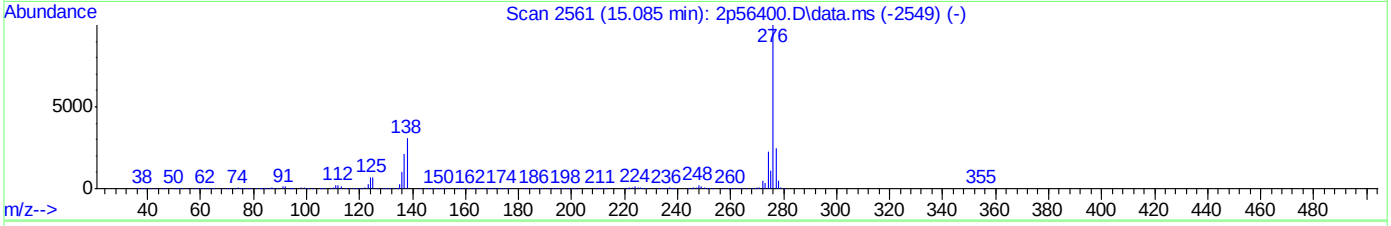
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P2594\
Data File : 2p59423.D
Acq On : 21 May 2016 4:21 am
Operator : seanb1
Sample : op94085-msd
Misc : op94085,e2p2594,30.1
ALS Vial : 24 Sample Multiplier: 1

Quant Time: May 23 17:16:29 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2557.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon May 23 13:11:07 2016
Response via : Initial Calibration







TIC: 2p59423.D\data.ms

(97) Indeno[1,2,3-cd]pyrene (t)

15.451min (+0.114) 46.09ppm

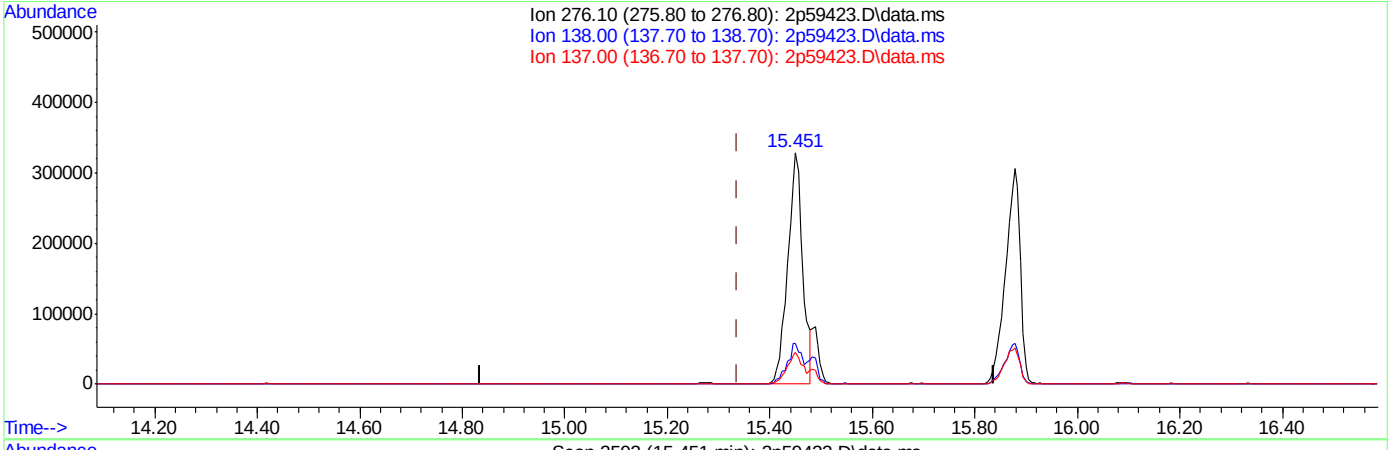
response 747030

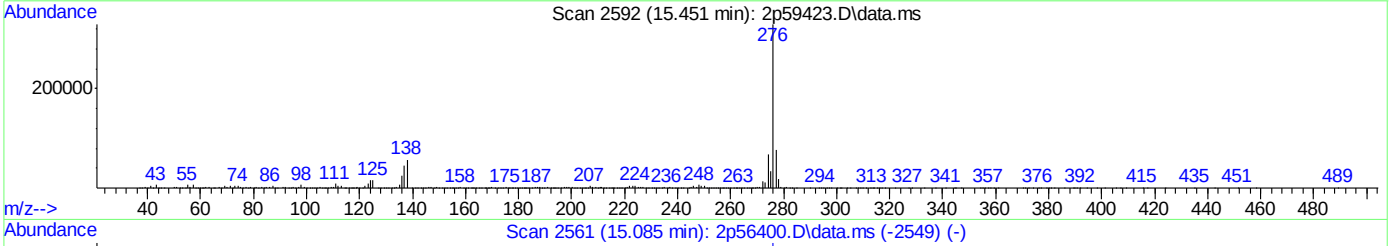
Ion	Exp%	Act%
276.10	100	100
138.00	21.00	17.31
137.00	16.70	13.55
0.00	0.00	0.00

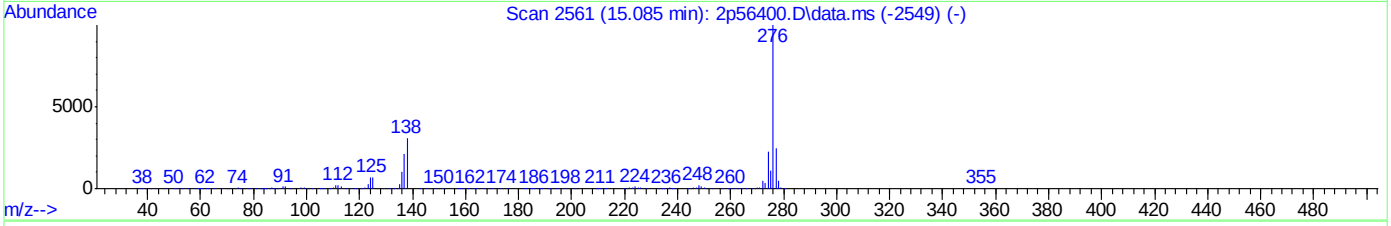
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P2594\
Data File : 2p59423.D
Acq On : 21 May 2016 4:21 am
Operator : seanb1
Sample : op94085-msd
Misc : op94085,e2p2594,30.1
ALS Vial : 24 Sample Multiplier: 1

Quant Time: May 23 17:16:29 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2557.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon May 23 13:11:07 2016
Response via : Initial Calibration







TIC: 2p59423.D\data.ms

(97) Indeno[1,2,3-cd]pyrene (t)

15.451min (+0.114) 40.86ppm m

response 662289

Ion	Exp%	Act%
276.10	100	100
138.00	21.00	17.49
137.00	16.70	13.72
0.00	0.00	0.00

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2882\
Data File : 3m61299.D
Acq On : 13 May 2016 12:45 pm
Operator : ashleyd
Sample : op93867a-ms
Misc : op93867a,e3m2882,475
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 13 14:28:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 12 12:34:26 2016
Response via : Initial Calibration

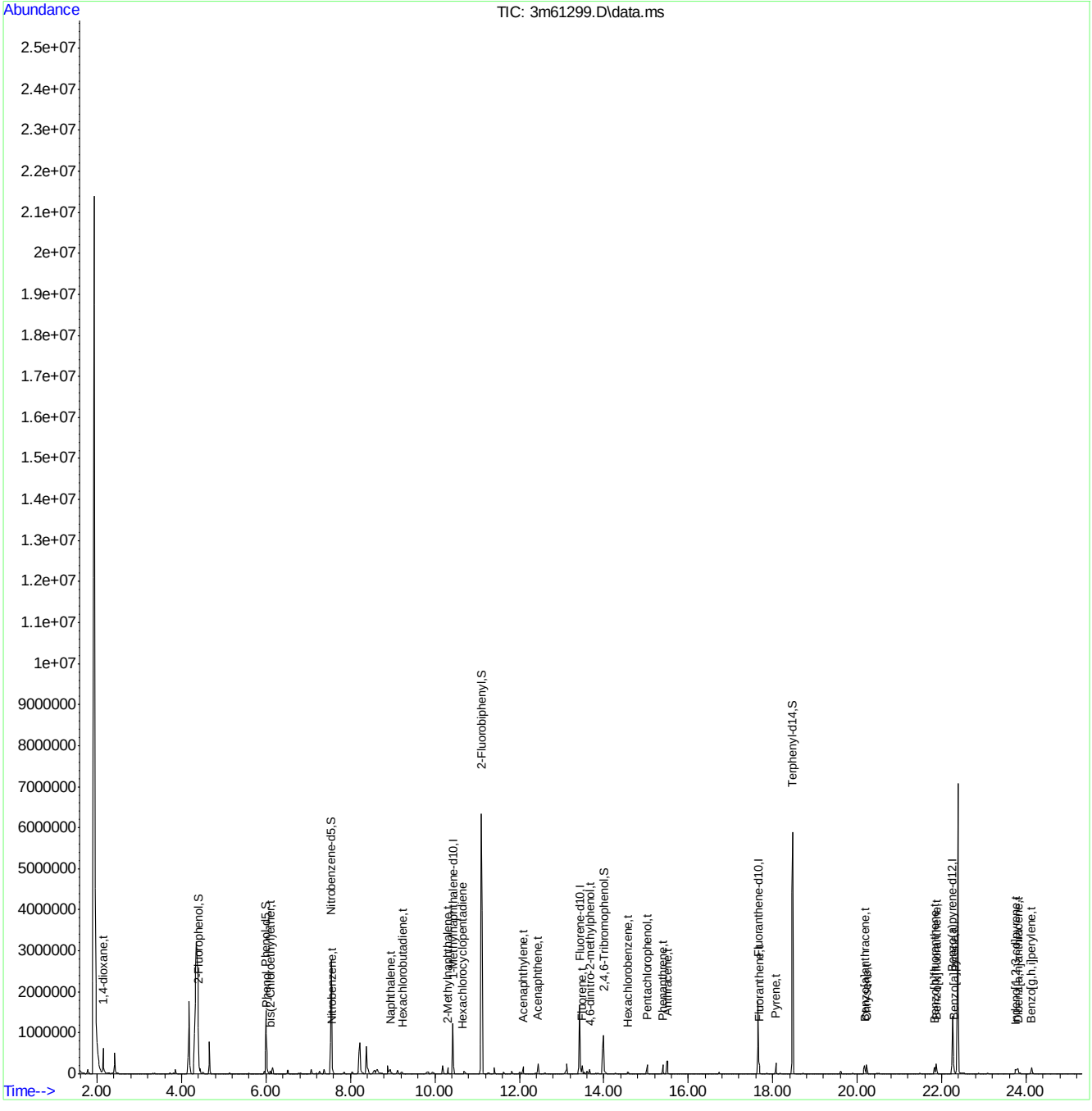
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Methylnaphthalene-d10	10.427	150	664214	4.00 ppm	0.06
14) Fluorene-d10	13.430	176	1161890	4.00 ppm	0.06
21) Fluoranthene-d10	17.654	212	1856280	4.00 ppm	0.06
31) Benzo(a)pyrene-d12	22.259	264	1301034	4.00 ppm	0.06
System Monitoring Compounds					
3) 2-Fluorophenol	4.399	112	1654056	19.90 ppm	0.08
Spiked Amount 50.000			Recovery	= 39.80%	
4) Phenol-d5	6.000	99	2092436	15.22 ppm	0.07
Spiked Amount 50.000			Recovery	= 30.44%	
7) Nitrobenzene-d5	7.550	82	2733212	21.38 ppm	0.06
Spiked Amount 50.000			Recovery	= 42.76%	
15) 2-Fluorobiphenyl	11.099	172	6152015	19.27 ppm	0.06
Spiked Amount 50.000			Recovery	= 38.54%	
20) 2,4,6-Tribromophenol	13.995	330	719094	19.77 ppm	0.07
Spiked Amount 50.000			Recovery	= 39.54%	
28) Terphenyl-d14	18.473	244	6369311	23.65 ppm	0.06
Spiked Amount 50.000			Recovery	= 47.30%	
Target Compounds					Qvalue
2) 1,4-dioxane	2.143	88	483799	14.10 ppm	86
5) Phenol	6.024	94	299000	2.02 ppm #	79
6) bis(2-Chloroethyl)ether	6.109	93	45989	0.41 ppm	75
8) Nitrobenzene	7.568	77	72917	0.53 ppm	98
9) Naphthalene	8.943	128	159335	0.43 ppm	87
10) Hexachlorobutadiene	9.225	225	27739	0.43 ppm	96
11) 2-Methylnaphthalene	10.303	141	97505	0.51 ppm	90
13) Hexachlorocyclopentadiene	10.652	237	2434	0.05 ppm	93
16) Acenaphthylene	12.088	152	176317	0.44 ppm	92
17) Acenaphthene	12.443	153	117936	0.44 ppm	81
18) 4,6-dinitro-2-methylph...	13.675	198	124501	3.55 ppm	72
19) Fluorene	13.486	166	143610	0.45 ppm	80
22) Hexachlorobenzene	14.578	284	36502	0.42 ppm	88
23) Pentachlorophenol	15.027	266	160104	2.72 ppm	98
24) Phenanthrene	15.398	178	205265	0.45 ppm	99
25) Anthracene	15.506	178	463234	1.15 ppm	98
26) Fluoranthene	17.685	202	240204	0.42 ppm	95
27) Pyrene	18.071	202	245607	0.46 ppm	94
29) Benzo[a]anthracene	20.173	228	245490	0.48 ppm	90
30) Chrysene	20.219	228	204596	0.42 ppm	90
32) Benzo[b]fluoranthene	21.826	252	212171	0.49 ppm	85
33) Benzo[k]fluoranthene	21.872	252	187769	0.47 ppm	96
34) Benzo[a]pyrene	22.289	252	196835	0.49 ppm	95
35) Indeno[1,2,3-cd]pyrene	23.749	276	201473	0.49 ppm	92
36) Dibenz[a,h]anthracene	23.806	278	163761	0.48 ppm	100
37) Benzo[g,h,i]perylene	24.125	276	168140	0.47 ppm	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2882\
Data File : 3m61299.D
Acq On : 13 May 2016 12:45 pm
Operator : ashleyd
Sample : op93867a-ms
Misc : op93867a,e3m2882,475
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 13 14:28:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 12 12:34:26 2016
Response via : Initial Calibration



SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2882\
Data File : 3m61300.D
Acq On : 13 May 2016 1:17 pm
Operator : ashleyd
Sample : op93867a-msd
Misc : op93867a,e3m2882,475
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 13 14:28:35 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 12 12:34:26 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Methylnaphthalene-d10	10.426	150	723717	4.00 ppm	0.06
14) Fluorene-d10	13.430	176	1247644	4.00 ppm	0.06
21) Fluoranthene-d10	17.654	212	2055377	4.00 ppm	0.06
31) Benzo(a)pyrene-d12	22.259	264	1412884	4.00 ppm	0.06
System Monitoring Compounds					
3) 2-Fluorophenol	4.399	112	1862862	20.57 ppm	0.08
Spiked Amount 50.000			Recovery = 41.14%		
4) Phenol-d5	6.000	99	2529027	16.88 ppm	0.07
Spiked Amount 50.000			Recovery = 33.76%		
7) Nitrobenzene-d5	7.550	82	2768975	19.88 ppm	0.06
Spiked Amount 50.000			Recovery = 39.76%		
15) 2-Fluorobiphenyl	11.099	172	6554397	19.12 ppm	0.06
Spiked Amount 50.000			Recovery = 38.24%		
20) 2,4,6-Tribromophenol	13.995	330	820363	21.01 ppm	0.07
Spiked Amount 50.000			Recovery = 42.02%		
28) Terphenyl-d14	18.473	244	7094881	23.80 ppm	0.06
Spiked Amount 50.000			Recovery = 47.60%		
Target Compounds					Qvalue
2) 1,4-dioxane	2.143	88	333684	8.92 ppm #	1
5) Phenol	6.024	94	375233	2.32 ppm #	87
6) bis(2-Chloroethyl)ether	6.109	93	46638	0.38 ppm	76
8) Nitrobenzene	7.568	77	75473	0.50 ppm	98
9) Naphthalene	8.943	128	162921	0.41 ppm	85
10) Hexachlorobutadiene	9.225	225	27588	0.39 ppm	96
11) 2-Methylnaphthalene	10.303	141	103757	0.50 ppm	87
13) Hexachlorocyclopentadiene	10.652	237	5991	0.11 ppm	87
16) Acenaphthylene	12.088	152	195267	0.45 ppm	92
17) Acenaphthene	12.443	153	129811	0.45 ppm	78
18) 4,6-dinitro-2-methylph...	13.675	198	151659	3.93 ppm	71
19) Fluorene	13.486	166	160366	0.46 ppm	79
22) Hexachlorobenzene	14.578	284	41934	0.43 ppm	88
23) Pentachlorophenol	15.027	266	198299	3.02 ppm	99
24) Phenanthrene	15.398	178	241504	0.48 ppm	97
25) Anthracene	15.490	178	481197	1.08 ppm	89
26) Fluoranthene	17.685	202	277412	0.44 ppm	95
27) Pyrene	18.071	202	289624	0.49 ppm	95
29) Benzo[a]anthracene	20.157	228	259049	0.46 ppm	98
30) Chrysene	20.219	228	243999	0.45 ppm	96
32) Benzo[b]fluoranthene	21.841	252	231327	0.49 ppm	96
33) Benzo[k]fluoranthene	21.872	252	217365	0.50 ppm	97
34) Benzo[a]pyrene	22.289	252	236119	0.54 ppm	95
35) Indeno[1,2,3-cd]pyrene	23.768	276	222765	0.50 ppm	95
36) Dibenz[a,h]anthracene	23.806	278	187842	0.51 ppm	100
37) Benzo[g,h,i]perylene	24.125	276	194329	0.50 ppm	100

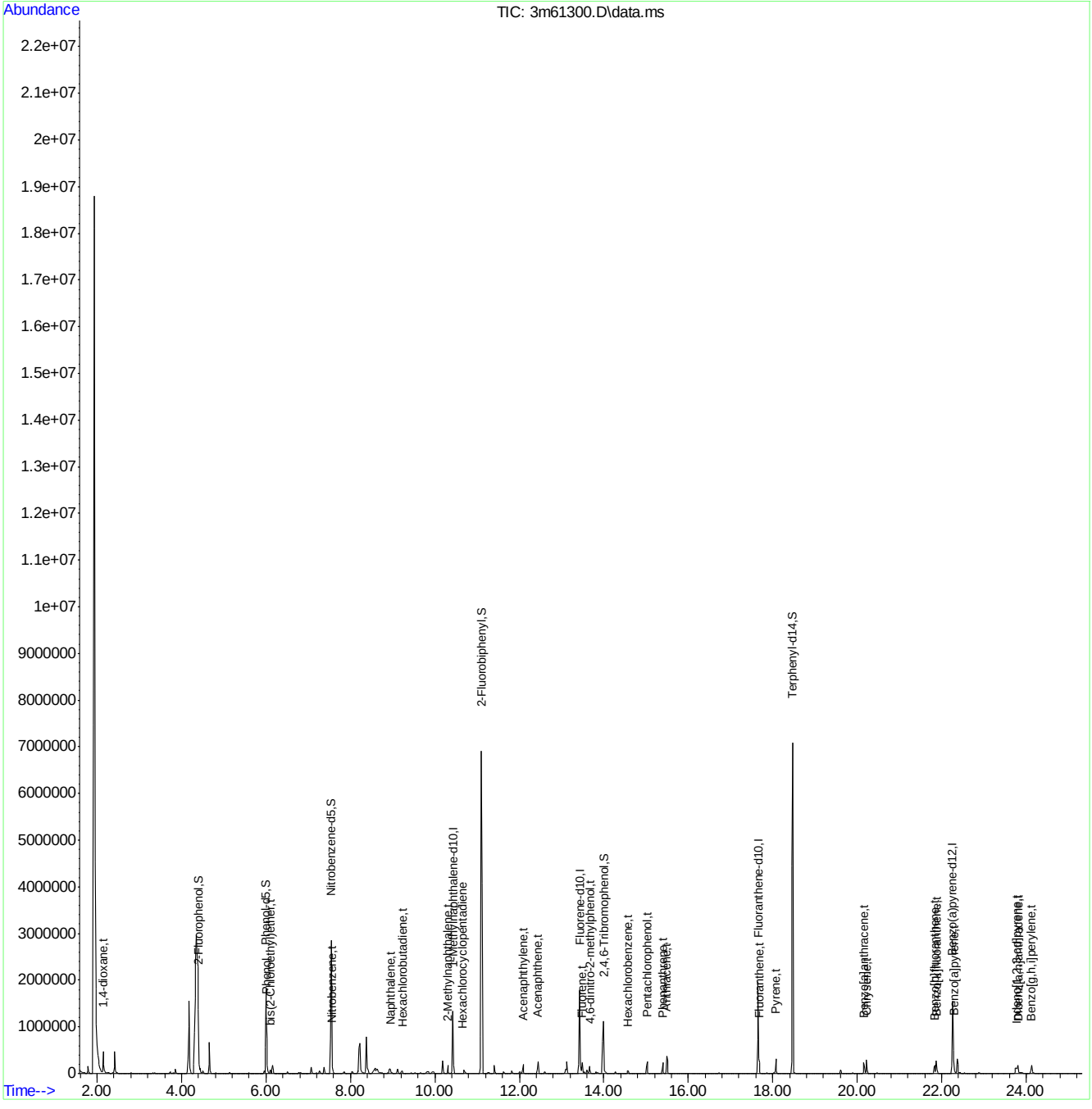
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2882\
Data File : 3m61300.D
Acq On : 13 May 2016 1:17 pm
Operator : ashleyd
Sample : op93867a-msd
Misc : op93867a,e3m2882,475
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 13 14:28:35 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 12 12:34:26 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2931\
Data File : 4m65503.D
Acq On : 24 May 2016 10:54 pm
Operator : linseyk
Sample : op94085a-ms
Misc : op94085a,e4m2931,30.8
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 25 08:55:45 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2930SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue May 24 15:08:32 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	9.863	152	154062	4.00	ppm	0.00
12) Fluorene-d10	12.827	176	336911	4.00	ppm	0.00
22) Fluoranthene-d10	17.007	212	542536	4.00	ppm	-0.02
28) Benzo(a)pyrene-d12	21.597	264	412795	4.00	ppm	-0.01
35) 1-Methylnaphthalene-d10a	9.863	152	154062	4.00	ppm	0.00
38) Fluorene-d10a	12.827	176	336911	4.00	ppm	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	4.121	112	1539183	53.67	ppm	0.00
Spiked Amount 50.000	Range 11 - 58		Recovery	=	107.34%#	
3) Phenol-d5	5.512	99	2614890	51.89	ppm	0.00
Spiked Amount 50.000			Recovery	=	103.78%	
6) Nitrobenzene-d5	7.038	82	2118555	52.93	ppm	0.00
Spiked Amount 50.000			Recovery	=	105.86%	
11) 2-Fluorobiphenyl	10.507	172	3450622	53.67	ppm	0.00
Spiked Amount 50.000			Recovery	=	107.34%	
17) 2,4,6-Tribromophenol	13.376	330	790801	59.65	ppm	0.00
Spiked Amount 50.000			Recovery	=	119.30%	
25) Terphenyl-d14	17.817	244	4049584	65.36	ppm	0.00
Spiked Amount 50.000			Recovery	=	130.72%	
Target Compounds						Qvalue
4) Phenol	5.526	94	340845	6.31	ppm #	51
5) bis(2-Chloroethyl)ether	5.664	93	43884	1.08	ppm	79
7) Naphthalene	8.384	128	1713745	15.40	ppm	95
8) Hexachlorobutadiene	8.662	225	19320	0.93	ppm	91
9) 2-Methylnaphthalene	9.720	142	299988	7.16	ppm #	45
10) Hexachlorocyclopentadiene	10.078	237	1516	0.73	ppm	93
13) Acenaphthylene	11.496	152	78054	0.87	ppm	97
14) Acenaphthene	11.851	153	47679	0.94	ppm	91
15) Dibenzofuran	12.206	168	77814	1.09	ppm	61
16) Fluorene	12.875	166	74344	1.13	ppm #	59
18) Hexachlorobenzene	13.976	284	29676	0.91	ppm	90
19) Pentachlorophenol	14.409	266	52386	6.93	ppm	91
20) Phenanthrene	14.786	178	123349	1.09	ppm	89
21) Anthracene	14.899	178	112352	1.00	ppm	96
23) Fluoranthene	17.045	202	143139	1.29	ppm	94
24) Pyrene	17.440	202	135780	1.25	ppm	94
26) Benzo[a]anthracene	19.511	228	112593	1.09	ppm	97
27) Chrysene	19.587	228	112689	1.08	ppm	94
29) Benzo[b]fluoranthene	21.184	252	115922	0.71	ppm	97
30) Benzo[k]fluoranthene	21.225	252	112253	1.04	ppm	96
31) Benzo[a]pyrene	21.638	252	105441	0.85	ppm	94
32) Indeno[1,2,3-cd]pyrene	23.194	276	124762	0.89	ppm	96
33) Dibenz[a,h]anthracene	23.235	278	87652	0.78	ppm	76
34) Benzo[g,h,i]perylene	23.593	276	110007	0.80	ppm	100
36) 1,4-Dioxane	2.320	88	9762	0.62	ppm #	58
39) 4,6-dinitro-2-methylph...	13.066	198	43698	4.48	ppm	93
40) 1,2-Diphenylhydrazine	13.257	77	77771	0.93	ppm	99

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2931\
Data File : 4m65503.D
Acq On : 24 May 2016 10:54 pm
Operator : linseyk
Sample : op94085a-ms
Misc : op94085a,e4m2931,30.8
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 25 08:55:45 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2930SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue May 24 15:08:32 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) n-nitrosodiphenylamine	13.185	169	50068	1.16	ppm #	61

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

7.4.7

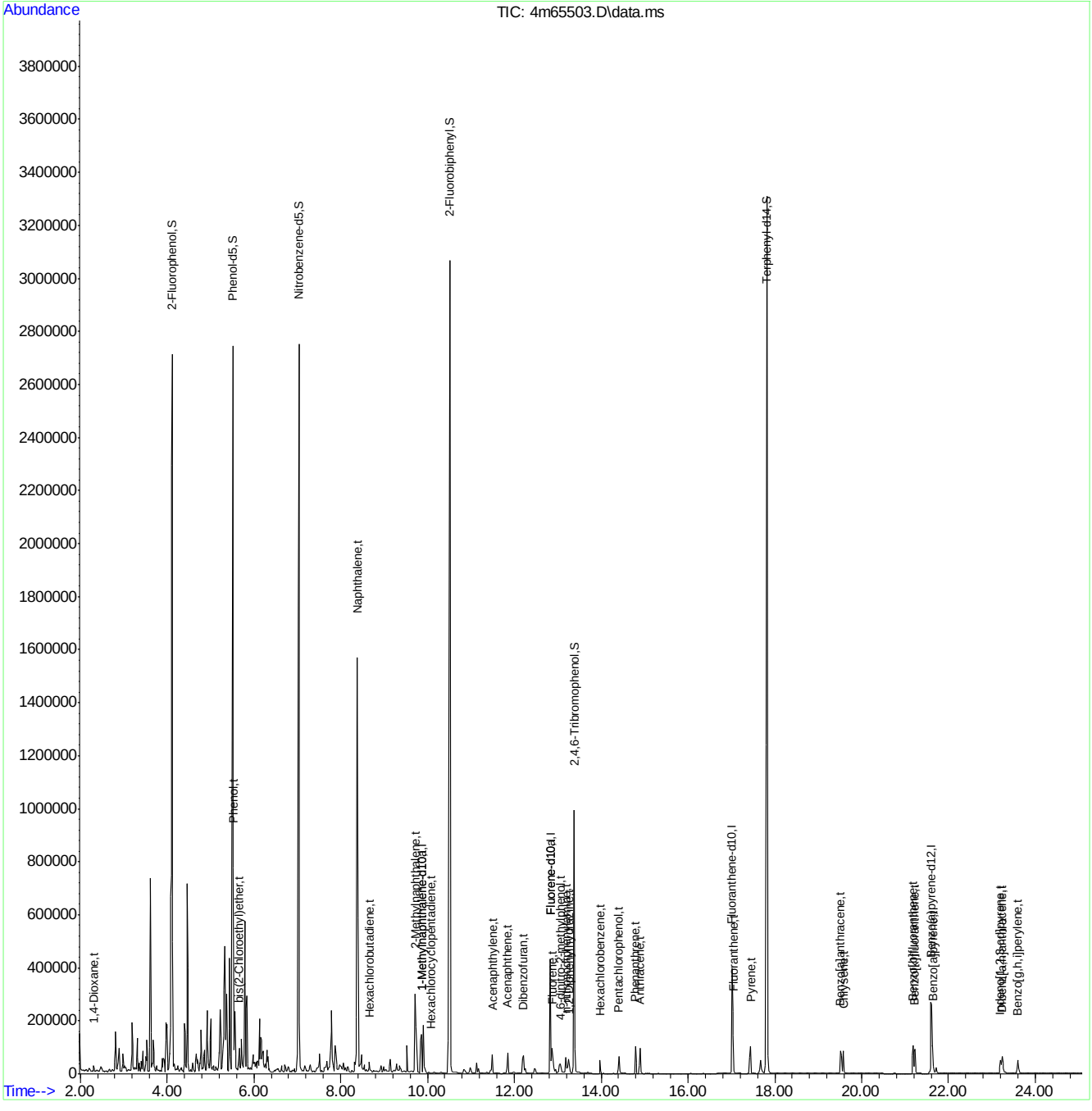
7

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2931\
Data File : 4m65503.D
Acq On : 24 May 2016 10:54 pm
Operator : linseyk
Sample : op94085a-ms
Misc : op94085a,e4m2931,30.8
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 25 08:55:45 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2930SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue May 24 15:08:32 2016
Response via : Initial Calibration



SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2931\
Data File : 4m65504.D
Acq On : 24 May 2016 11:24 pm
Operator : linseyk
Sample : op94085a-msd
Misc : op94085a,e4m2931,33.2
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 25 08:56:04 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2930SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue May 24 15:08:32 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1-Methylnaphthalene-d10	9.863	152	172029	4.00	ppm		0.00
12) Fluorene-d10	12.827	176	369569	4.00	ppm		0.00
22) Fluoranthene-d10	17.007	212	605706	4.00	ppm		-0.02
28) Benzo(a)pyrene-d12	21.597	264	460456	4.00	ppm		-0.01
35) 1-Methylnaphthalene-d10a	9.863	152	172029	4.00	ppm		0.00
38) Fluorene-d10a	12.827	176	369569	4.00	ppm		0.00
System Monitoring Compounds							
2) 2-Fluorophenol	4.121	112	1881049	58.74	ppm		0.00
Spiked Amount 50.000	Range 11 - 58		Recovery	=	117.48%#		
3) Phenol-d5	5.512	99	3174060	56.41	ppm		0.00
Spiked Amount 50.000			Recovery	=	112.82%		
6) Nitrobenzene-d5	7.038	82	2638111	59.03	ppm		0.00
Spiked Amount 50.000			Recovery	=	118.06%		
11) 2-Fluorobiphenyl	10.507	172	4149475	57.80	ppm		0.00
Spiked Amount 50.000			Recovery	=	115.60%		
17) 2,4,6-Tribromophenol	13.376	330	913083	62.79	ppm		0.00
Spiked Amount 50.000			Recovery	=	125.58%		
25) Terphenyl-d14	17.817	244	4611054	66.66	ppm		0.00
Spiked Amount 50.000			Recovery	=	133.32%		
Target Compounds							Qvalue
4) Phenol	5.526	94	407434	6.75	ppm		58
5) bis(2-Chloroethyl)ether	5.663	93	53413	1.18	ppm		80
7) Naphthalene	8.384	128	1374947	11.06	ppm		95
8) Hexachlorobutadiene	8.662	225	24152	1.05	ppm		92
9) 2-Methylnaphthalene	9.719	142	259466	5.55	ppm	#	45
10) Hexachlorocyclopentadiene	10.077	237	1877	0.79	ppm		93
13) Acenaphthylene	11.496	152	93194	0.95	ppm		97
14) Acenaphthene	11.851	153	57642	1.04	ppm		92
15) Dibenzofuran	12.206	168	92944	1.19	ppm		60
16) Fluorene	12.875	166	86295	1.19	ppm	#	57
18) Hexachlorobenzene	13.976	284	35377	0.99	ppm		89
19) Pentachlorophenol	14.409	266	55734	6.72	ppm		91
20) Phenanthrene	14.785	178	151048	1.21	ppm		89
21) Anthracene	14.898	178	133607	1.09	ppm		95
23) Fluoranthene	17.045	202	182406	1.47	ppm		95
24) Pyrene	17.440	202	174419	1.44	ppm		93
26) Benzo[a]anthracene	19.511	228	141079	1.22	ppm		97
27) Chrysene	19.586	228	143075	1.23	ppm		94
29) Benzo[b]fluoranthene	21.184	252	142536	0.78	ppm		96
30) Benzo[k]fluoranthene	21.225	252	142662	1.18	ppm		96
31) Benzo[a]pyrene	21.638	252	130261	0.94	ppm		94
32) Indeno[1,2,3-cd]pyrene	23.194	276	152320	0.97	ppm		96
33) Dibenz[a,h]anthracene	23.235	278	102938	0.82	ppm		76
34) Benzo[g,h,i]perylene	23.593	276	134489	0.88	ppm		100
36) 1,4-Dioxane	2.320	88	12016	0.71	ppm	#	36
39) 4,6-dinitro-2-methylph...	13.066	198	51920	4.81	ppm		91
40) 1,2-Diphenylhydrazine	13.257	77	93639	1.02	ppm		99

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2931\
Data File : 4m65504.D
Acq On : 24 May 2016 11:24 pm
Operator : linseyk
Sample : op94085a-msd
Misc : op94085a,e4m2931,33.2
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 25 08:56:04 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2930SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue May 24 15:08:32 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) n-nitrosodiphenylamine	13.185	169	56115	1.18	ppm #	62

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

7.4.8

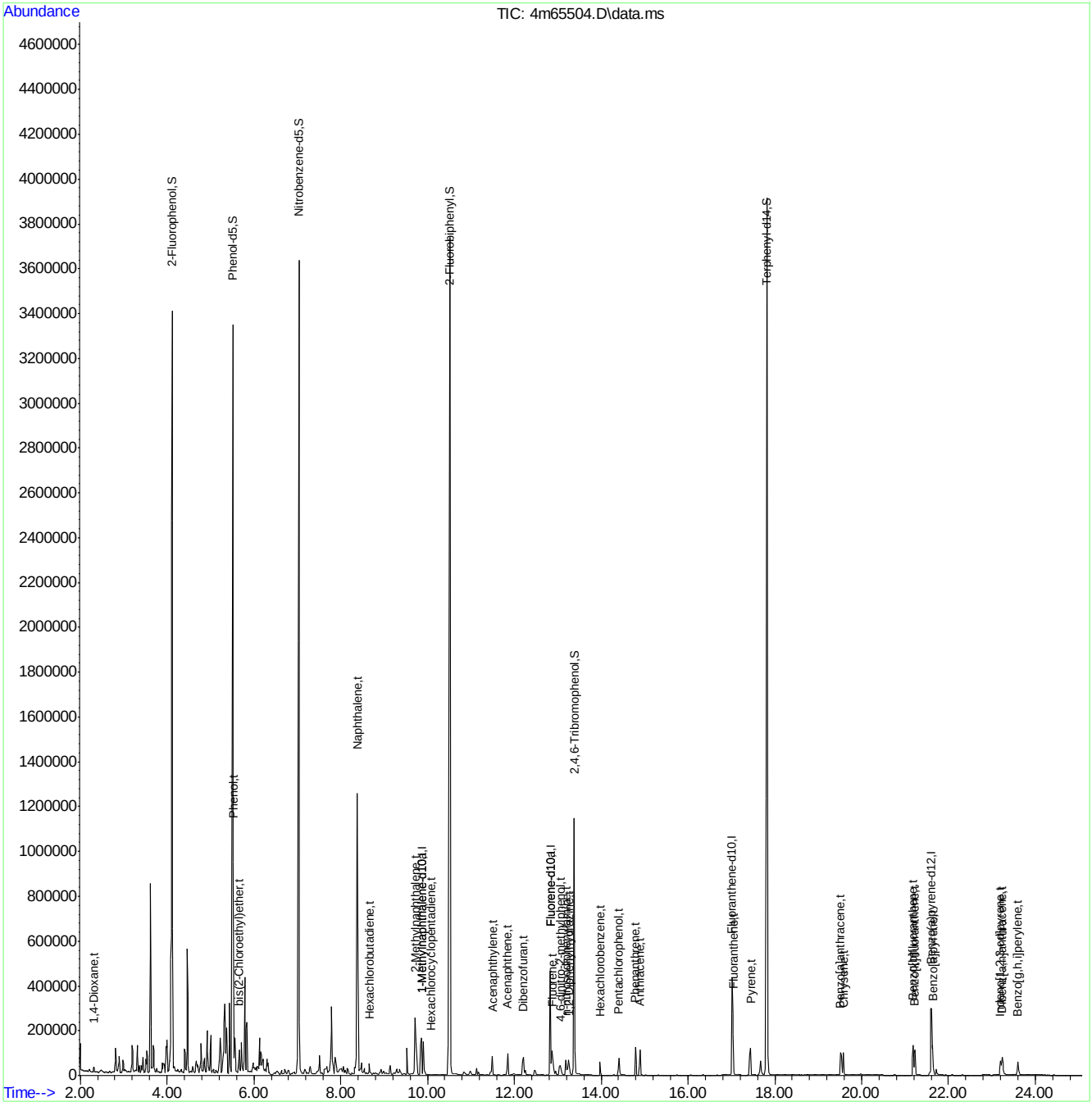
7

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2931\
Data File : 4m65504.D
Acq On : 24 May 2016 11:24 pm
Operator : linseyk
Sample : op94085a-msd
Misc : op94085a,e4m2931,33.2
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 25 08:56:04 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2930SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue May 24 15:08:32 2016
Response via : Initial Calibration

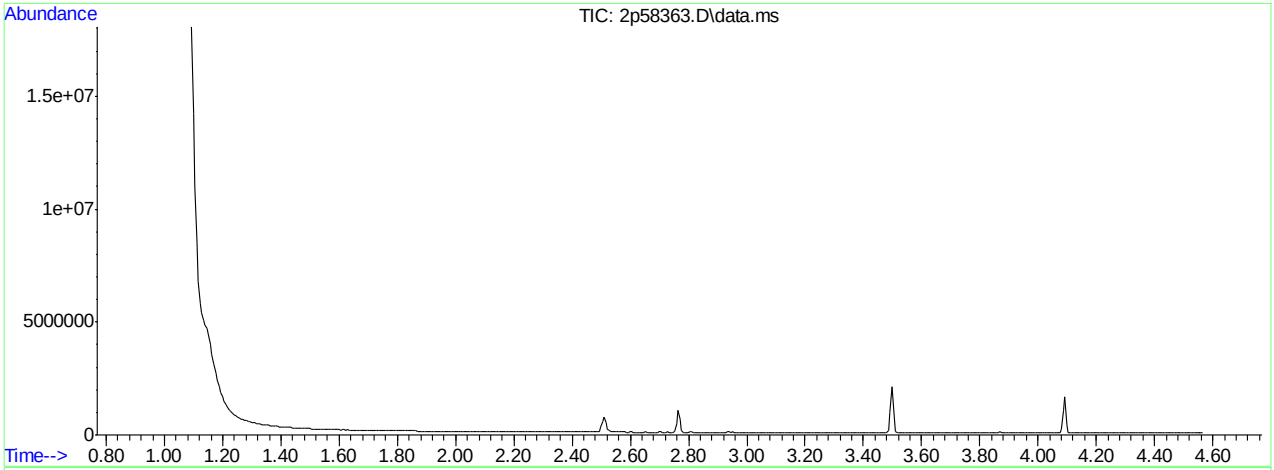


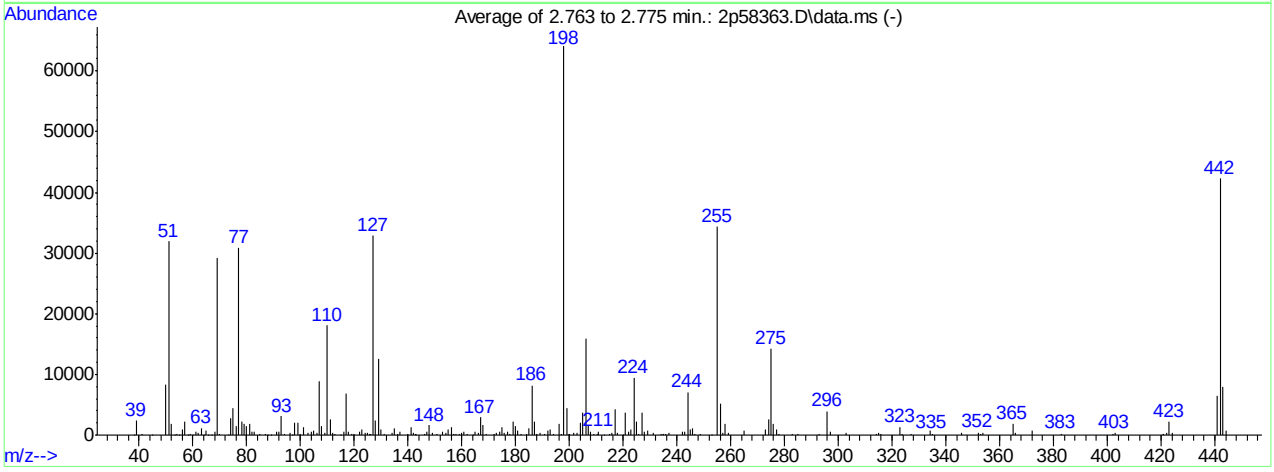
SGS ACCUTEST JC20098

DFTPP

Data File : C:\msdchem\1\DATA\2P2547\2p58363.D Vial: 1
Acq On : 19 Apr 2016 3:12 pm Operator: robertl1
Sample : DFTPP Inst : MS2P
Misc : op92038,e2p2547 Multiplr: 1.00
MS Integration Params: events.e

Method : C:\MSDCHEM\1\METHODS\DFTPP2P.M (ChemStation Integrator)
Title :





AutoFind: Scans 285, 286, 287; Background Corrected with Scan 281

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	49.9	31943	PASS
68	69	0.00	2	1.9	547	PASS
69	198	0.00	100	45.6	29233	PASS
70	69	0.00	2	0.5	136	PASS
127	198	40	60	51.3	32846	PASS
197	198	0.00	1	0.3	212	PASS
198	198	100	100	100.0	64058	PASS
199	198	5	9	6.8	4365	PASS
275	198	10	30	22.1	14145	PASS
365	198	1	100	2.8	1814	PASS
441	443	0.01	100	81.6	6462	PASS
442	198	40	100	65.9	42236	PASS
443	442	17	23	18.8	7923	PASS

2p58363.D DFTPP2P.M Tue Apr 19 15:21:33 2016 RPT1

Average of 2.763 to 2.775 min.: 2p58363.D\data.ms
DFTPP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
38.00	60	57.00	2308	68.00	547	81.00	1947
39.00	2378	58.00	5	69.00	29233	82.00	495
41.00	218	58.95	205	69.95	136	83.00	499
45.00	75	59.90	26	73.00	99	85.00	237
50.00	8247	61.00	601	74.00	2714	86.95	262
51.00	31943	61.95	361	75.00	4379	87.90	94
52.00	1779	63.00	1146	76.00	1455	88.90	94
53.00	24	64.00	96	77.00	30801	91.00	642
54.00	177	65.00	659	78.05	2168	91.90	537
55.00	63	65.90	89	79.00	1899	93.00	3090
56.00	1000	67.00	22	80.00	1502	93.95	253

Average of 2.763 to 2.775 min.: 2p58363.D\data.ms
DFTPP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
96.00	391	108.00	1455	120.00	113	131.00	205
97.00	57	109.00	305	121.95	481	134.00	293
98.00	2009	110.00	18024	122.95	895	135.00	1089
99.00	1954	111.00	2656	123.95	431	135.95	262
100.00	139	112.05	397	125.00	354	137.00	489
101.00	1255	113.00	139	125.80	136	139.90	104
102.95	417	115.00	88	126.10	138	141.00	1334
103.90	648	115.95	508	127.00	32846	141.95	464
105.00	665	117.00	6904	128.00	2329	142.70	95
105.95	285	117.90	518	129.00	12516	143.00	188
107.00	8888	118.90	132	130.00	840	146.00	222

Average of 2.763 to 2.775 min.: 2p58363.D\data.ms
DFTPP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
147.00	626	159.95	388	174.00	534	186.00	8223
148.00	1633	160.95	617	175.00	1215	187.00	2135
148.95	399	161.90	172	175.95	362	187.95	241
150.90	122	164.00	90	176.90	502	188.90	467
152.90	505	164.95	595	177.80	123	190.90	142
153.95	328	166.00	427	178.95	2204	191.90	787
154.95	945	167.00	2941	180.00	1524	193.00	868
156.00	1358	168.00	1639	180.95	698	193.90	230
157.05	230	168.90	156	181.95	178	196.00	1916
158.00	216	172.00	166	183.90	130	197.00	212
158.90	183	172.95	333	185.00	1111	197.90	64058

Average of 2.763 to 2.775 min.: 2p58363.D\data.ms
DFTPP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
198.95	4365	210.30	219	224.00	9406	236.95	286
199.90	219	210.95	607	225.00	2163	241.85	482
200.10	123	213.00	59	225.95	212	243.00	497
201.40	446	215.00	102	227.00	3698	244.00	7115
203.00	317	215.95	411	228.00	565	244.95	919
204.00	2093	216.90	4178	228.90	837	245.95	1061
205.00	3769	217.90	388	231.00	363	246.80	210
206.00	15923	220.00	85	234.00	111	248.90	230
207.00	1744	220.95	3792	234.80	177	252.80	89
207.95	545	221.95	555	235.00	103	255.00	34366
208.90	134	223.00	885	235.90	120	256.00	5175

Average of 2.763 to 2.775 min.: 2p58363.D\data.ms
DFTPP
Modified:subtracted

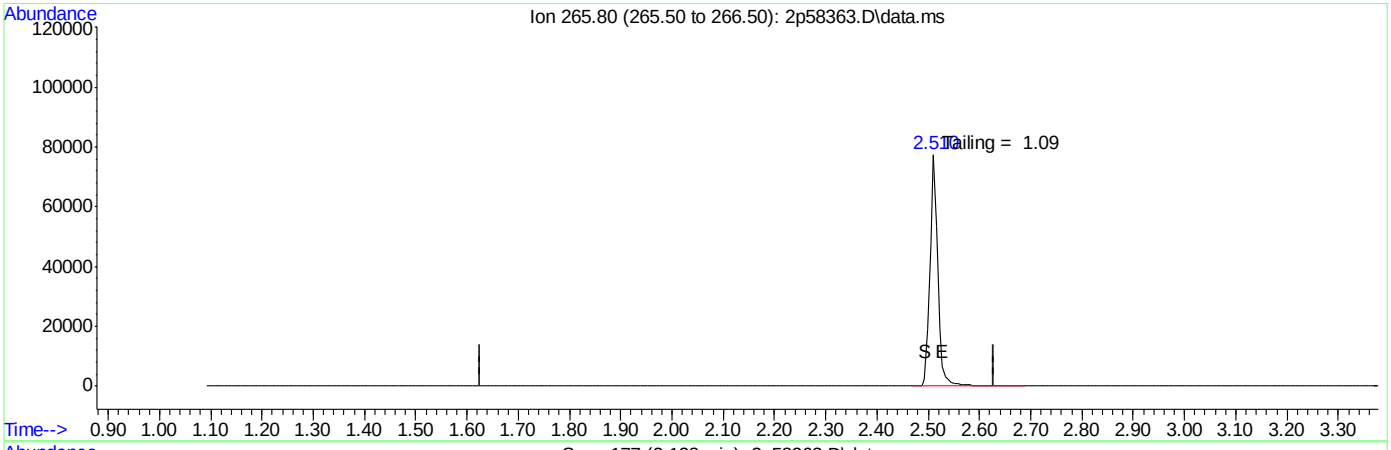
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
256.95	319	285.00	136	334.00	701	402.90	323
258.00	1945	292.90	211	334.90	197	420.80	103
258.95	306	296.00	3958	345.90	324	421.00	192
264.90	760	296.90	580	352.00	433	421.90	320

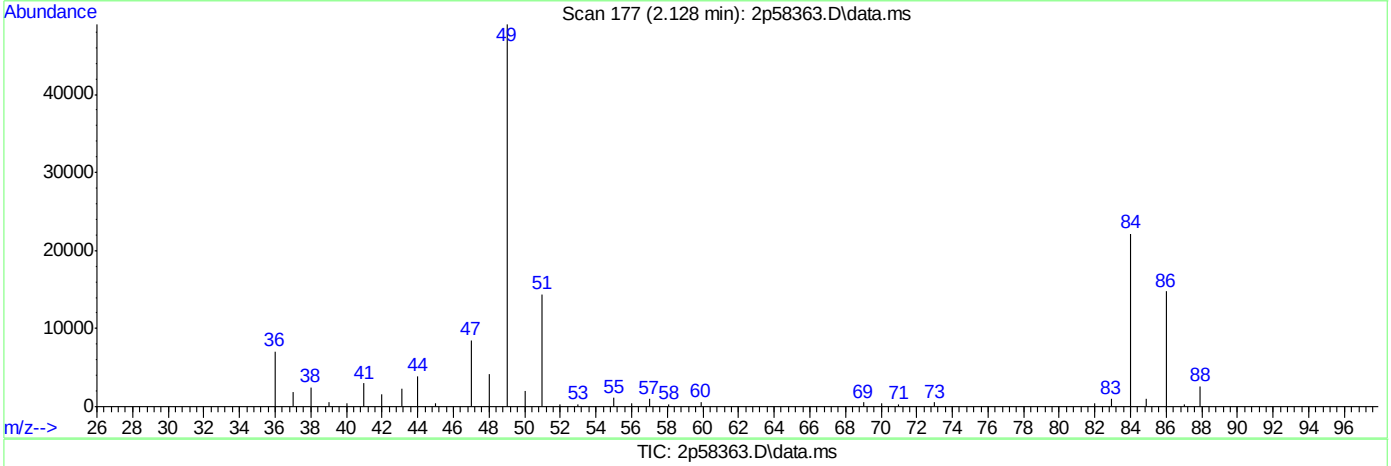
272.95	937	302.95	444	353.00	238	423.00	2169
274.00	2601	313.95	200	353.90	339	424.00	454
275.00	14145	314.85	366	364.95	1814	441.00	6462
276.00	1828	316.00	134	365.95	297	442.00	42236
277.00	974	323.00	1326	371.95	677	443.00	7923
277.90	189	323.90	205	382.85	223	444.00	714
283.00	152	326.90	245	401.90	185		

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P2547\
Data File : 2p58363.D
Acq On : 19 Apr 2016 3:12 pm
Operator : robertl1
Sample : DFTPP
Misc : op92038,e2p2547
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 19 15:16:35 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP2P.M
Quant Title :
QLast Update : Tue Aug 11 08:57:54 2015
Response via : Initial Calibration





TIC: 2p58363.D\data.ms

(1) Pentacholorphenol

2.128min (-2.128) 0.00ppb

response 0

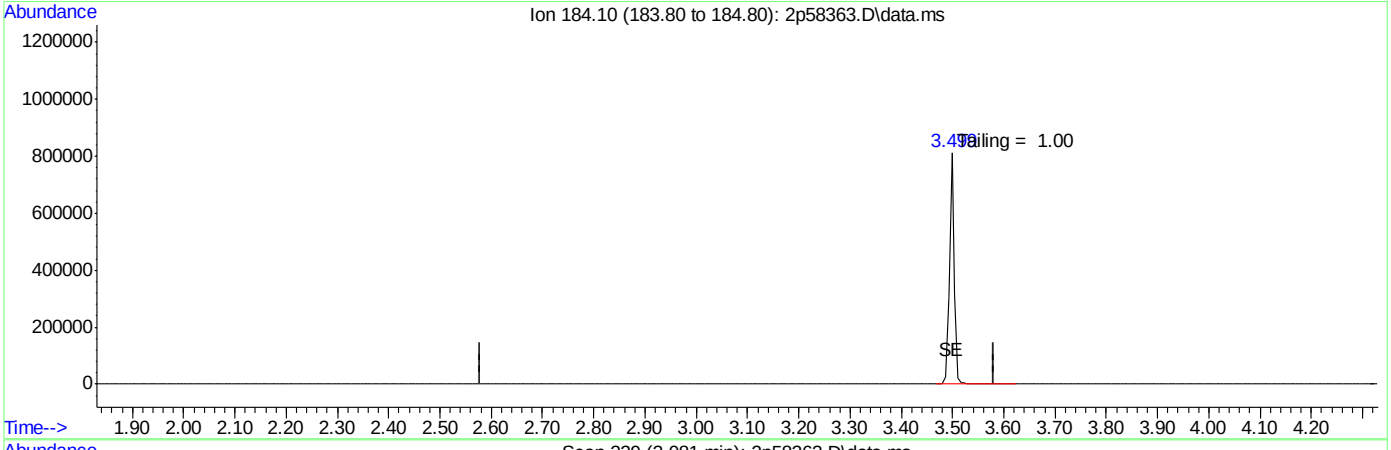
Ion	Exp%	Act%
265.80	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

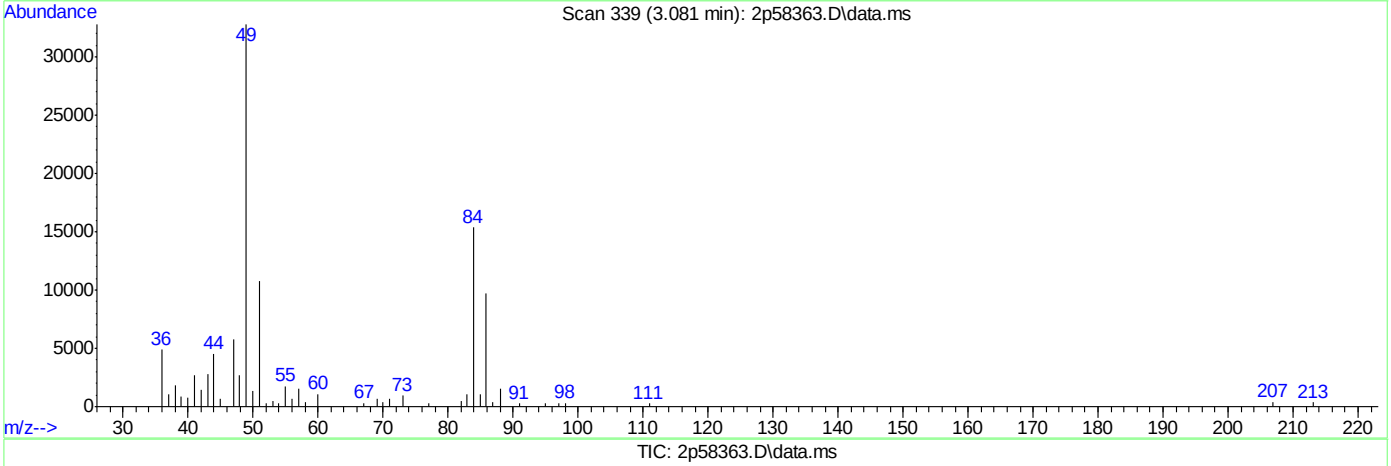
SGS ACCUTEST JC20098

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P2547\
Data File : 2p58363.D
Acq On : 19 Apr 2016 3:12 pm
Operator : robertl1
Sample : DFTPP
Misc : op92038,e2p2547
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 19 15:16:35 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP2P.M
Quant Title :
QLast Update : Tue Aug 11 08:57:54 2015
Response via : Initial Calibration





TIC: 2p58363.D\data.ms

(2) Benzidine

3.081min (-3.081) 0.00ppb

response 0

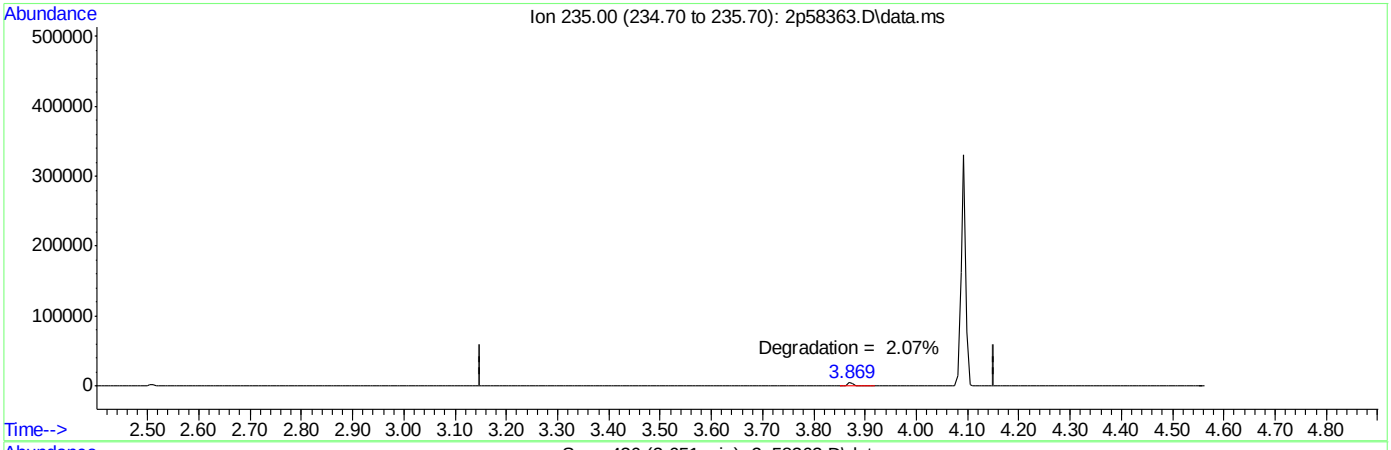
Ion	Exp%	Act%
184.10	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

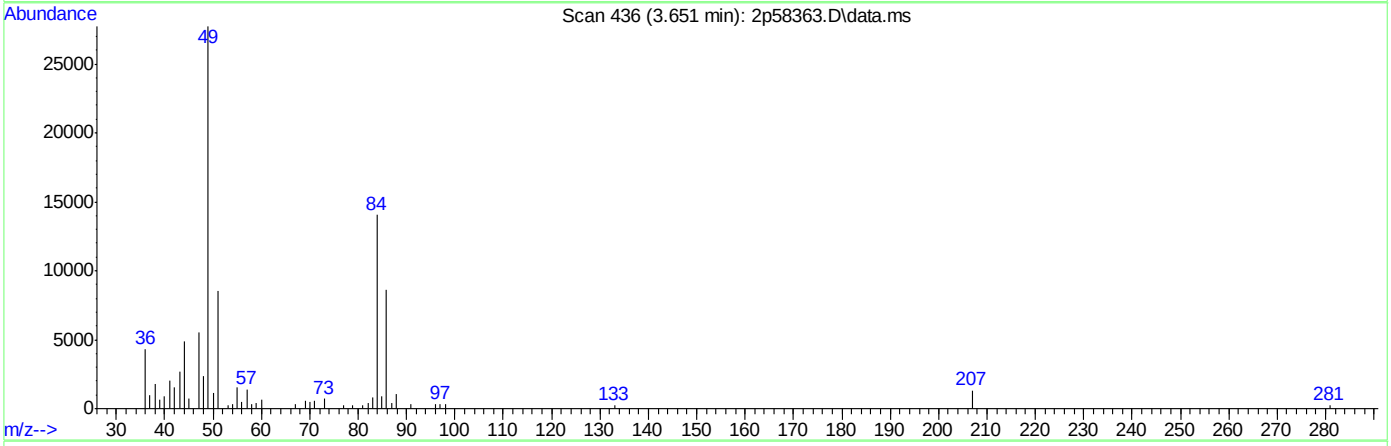
SGS ACCUTEST JC20098

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P2547\
Data File : 2p58363.D
Acq On : 19 Apr 2016 3:12 pm
Operator : robertl1
Sample : DFTPP
Misc : op92038,e2p2547
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 19 15:16:35 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP2P.M
Quant Title :
QLast Update : Tue Aug 11 08:57:54 2015
Response via : Initial Calibration





TIC: 2p58363.D\data.ms

(3) PP-DDT

3.651min (-3.651) 0.00ppb

response 0

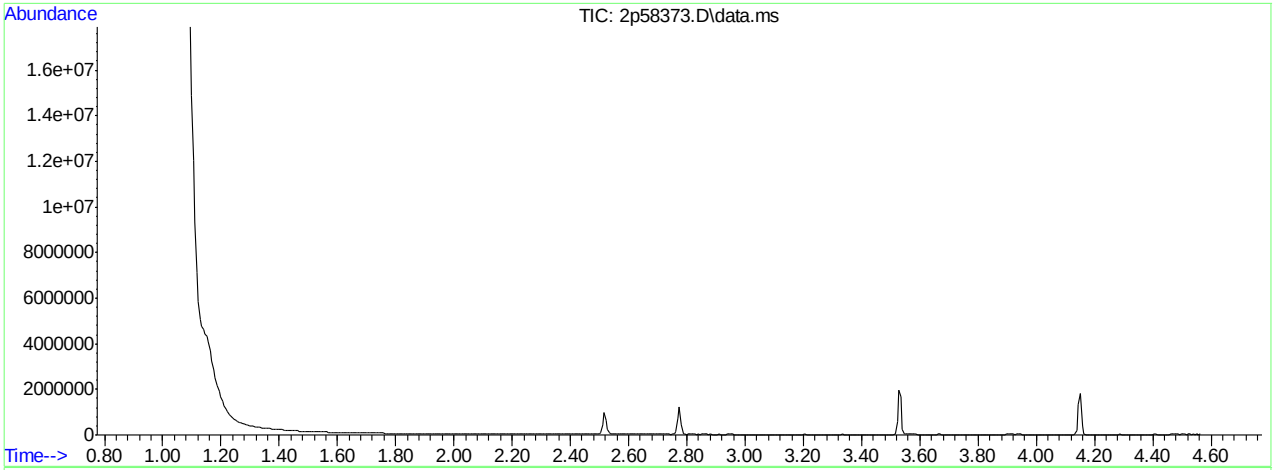
Ion	Exp%	Act%
235.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

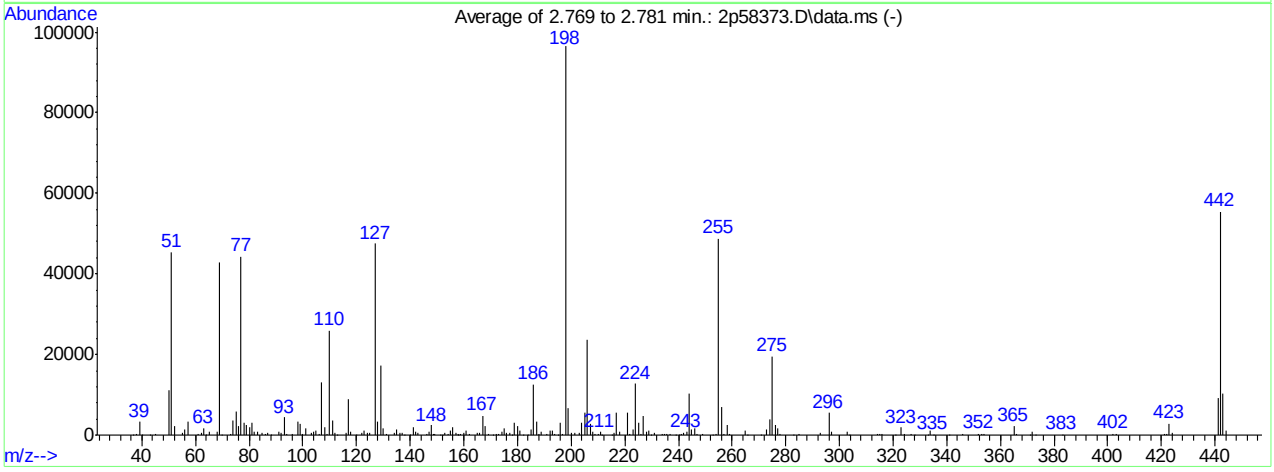
SGS ACCUTEST JC20098

DFTPP

Data File : C:\msdchem\1\DATA\2P2548\2p58373.D Vial: 1
Acq On : 19 Apr 2016 7:47 pm Operator: sarad
Sample : DFTPP Inst : MS2P
Misc : op92038,e2p2548 Multiplr: 1.00
MS Integration Params: events.e

Method : C:\MSDCHEM\1\METHODS\DFTPP2P.M (ChemStation Integrator)
Title :





AutoFind: Scans 286, 287, 288; Background Corrected with Scan 282

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	47.2	45494	PASS
68	69	0.00	2	1.7	713	PASS
69	198	0.00	100	44.6	42984	PASS
70	69	0.00	2	0.3	141	PASS
127	198	40	60	49.2	47459	PASS
197	198	0.00	1	0.2	230	PASS
198	198	100	100	100.0	96445	PASS
199	198	5	9	6.8	6569	PASS
275	198	10	30	20.3	19621	PASS
365	198	1	100	2.4	2274	PASS
441	443	0.01	100	88.4	9130	PASS
442	198	40	100	57.5	55443	PASS
443	442	17	23	18.6	10326	PASS

2p58373.D DFTPP2P.M Tue Apr 19 19:52:01 2016 RPT1

Average of 2.769 to 2.781 min.: 2p58373.D\data.ms
DFTPP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.90	142	57.00	3357	75.00	5966	86.95	435
38.00	239	60.95	416	76.00	2168	87.90	107
39.05	3273	62.00	526	77.00	44264	91.00	742
40.00	53	63.00	1778	78.00	3011	91.95	683
43.00	81	63.90	87	79.00	2619	93.00	4360
45.00	281	65.00	872	80.00	1988	94.05	319
50.00	11124	67.95	713	81.00	3023	96.00	237
51.05	45494	69.00	42984	82.00	736	98.00	3333
52.05	2355	69.90	141	83.00	804	99.00	2744
54.95	458	73.05	293	84.90	560	99.90	247
56.00	1451	74.00	3652	85.95	384	101.00	1682

Average of 2.769 to 2.781 min.: 2p58373.D\data.ms
DFTPP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
103.00	614	115.95	537	129.95	1603	146.00	295
103.95	844	117.00	9017	131.00	261	147.00	941
104.95	1073	117.90	735	134.00	437	148.00	2436
106.00	330	120.00	122	135.00	1310	148.80	158
107.00	13003	121.90	658	135.95	509	149.00	404
108.00	1895	122.95	1038	136.95	638	151.00	136
108.90	153	124.00	459	137.90	93	152.10	120
110.00	26001	124.90	561	140.00	85	153.00	588
110.95	3494	127.00	47459	141.00	1931	154.00	408
111.90	437	128.00	3402	141.95	723	155.00	1235
112.90	88	129.00	17366	143.00	456	156.00	1894

Average of 2.769 to 2.781 min.: 2p58373.D\data.ms
DFTPP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
156.95	434	169.00	289	180.95	1089	193.95	299
157.70	171	170.80	91	182.00	83	195.00	86
158.00	88	171.95	303	184.00	124	195.95	2957
158.90	257	172.95	376	185.00	1515	196.90	230
160.00	588	174.00	877	186.00	12586	198.00	96445
161.00	1052	175.00	1740	187.00	3441	198.95	6569
162.00	273	176.00	507	188.00	288	199.95	561
165.00	667	176.95	680	188.95	767	201.40	431
165.95	516	178.00	128	190.90	279	202.90	655
167.00	4844	178.95	3170	191.95	1026	204.00	3134
168.00	2205	180.00	2215	193.00	1193	205.00	5520

Average of 2.769 to 2.781 min.: 2p58373.D\data.ms
DFTPP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
206.00	23752	221.00	5509	233.90	189	245.90	1567
207.00	2817	221.80	167	234.95	283	246.90	300
208.00	870	222.90	1328	235.80	210	249.00	209
208.95	252	224.00	12744	236.90	311	252.90	131
210.30	256	225.00	3195	238.90	111	253.95	251
210.90	770	225.90	274	240.00	120	255.00	48736
211.30	112	227.00	4817	241.00	150	256.00	7044
215.00	106	227.95	732	242.00	685	257.00	391
216.00	495	229.00	1070	243.00	783	258.00	2639
216.95	5602	229.90	117	244.00	10182	258.90	331
217.95	739	231.00	488	245.00	1352	264.95	1029

Average of 2.769 to 2.781 min.: 2p58373.D\data.ms
DFTPP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
265.90	142	296.00	5500	327.90	109	370.90	108
270.90	88	296.90	793	333.00	84	371.95	808
273.00	1385	303.00	775	334.00	1083	372.90	96
274.00	3895	303.90	105	334.90	116	383.00	131

275.00	19621	314.00	156	341.00	101	401.95	391
276.00	2531	314.90	421	345.90	197	403.00	375
277.00	1543	316.00	176	351.95	408	420.95	290
277.90	153	320.90	92	353.00	277	421.95	276
282.90	145	323.00	1842	354.00	402	423.00	2849
284.90	153	324.10	200	364.95	2274	423.90	526
292.95	459	326.90	195	365.90	152	441.00	9130

Average of 2.769 to 2.781 min.: 2p58373.D\data.ms
DFTPP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
442.00	55443						
443.00	10326						
443.95	1050						

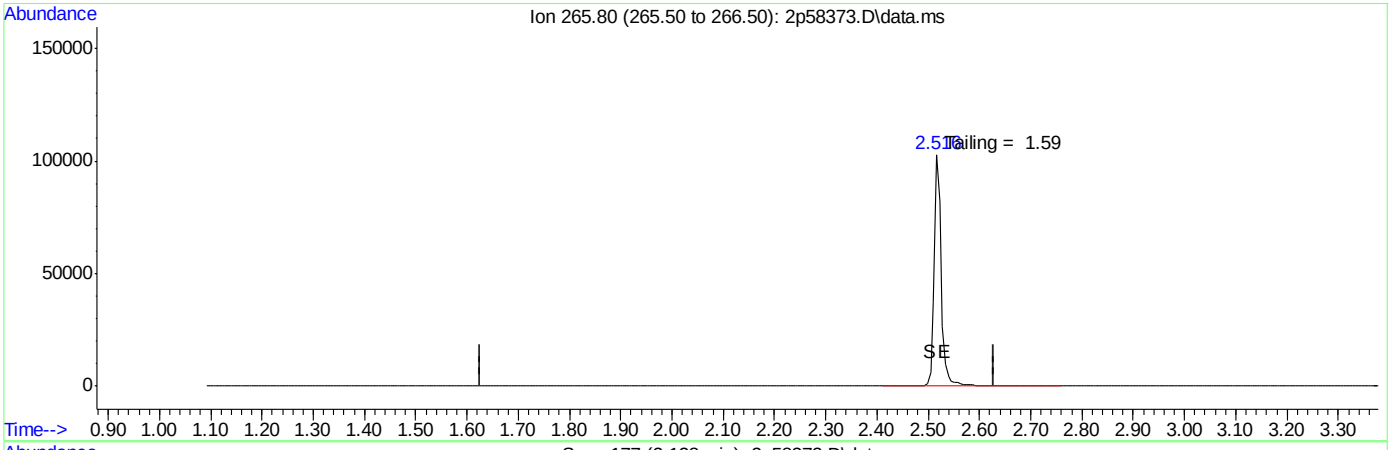
7.5.2

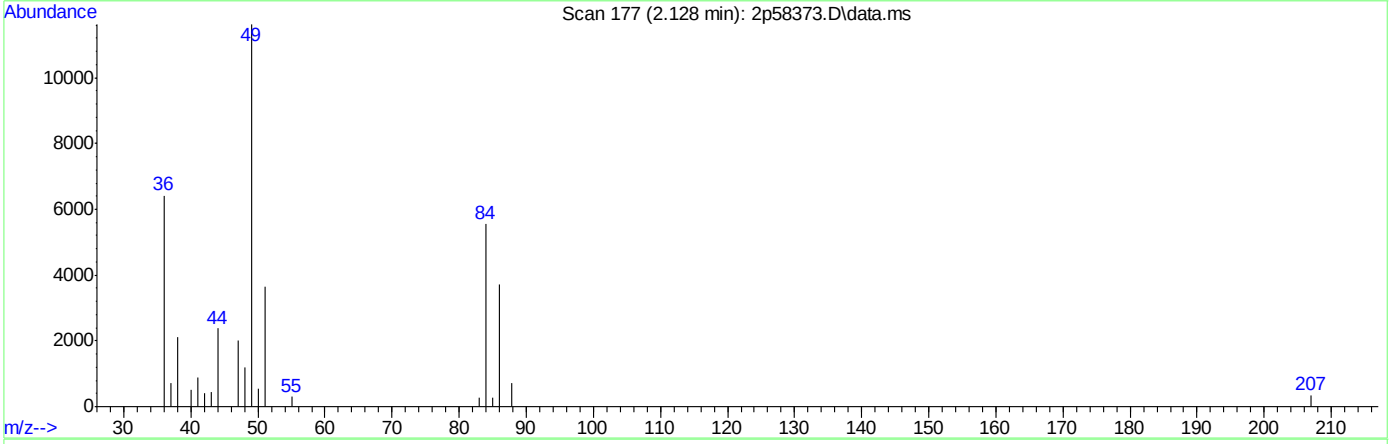
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P2548\
Data File : 2p58373.D
Acq On : 19 Apr 2016 7:47 pm
Operator : sarad
Sample : DFTPP
Misc : op92038,e2p2548
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 19 19:50:49 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP2P.M
Quant Title :
QLast Update : Tue Aug 11 08:57:54 2015
Response via : Initial Calibration





TIC: 2p58373.D\data.ms

(1) Pentacholorphenol

2.128min (-2.128) 0.00ppb

response 0

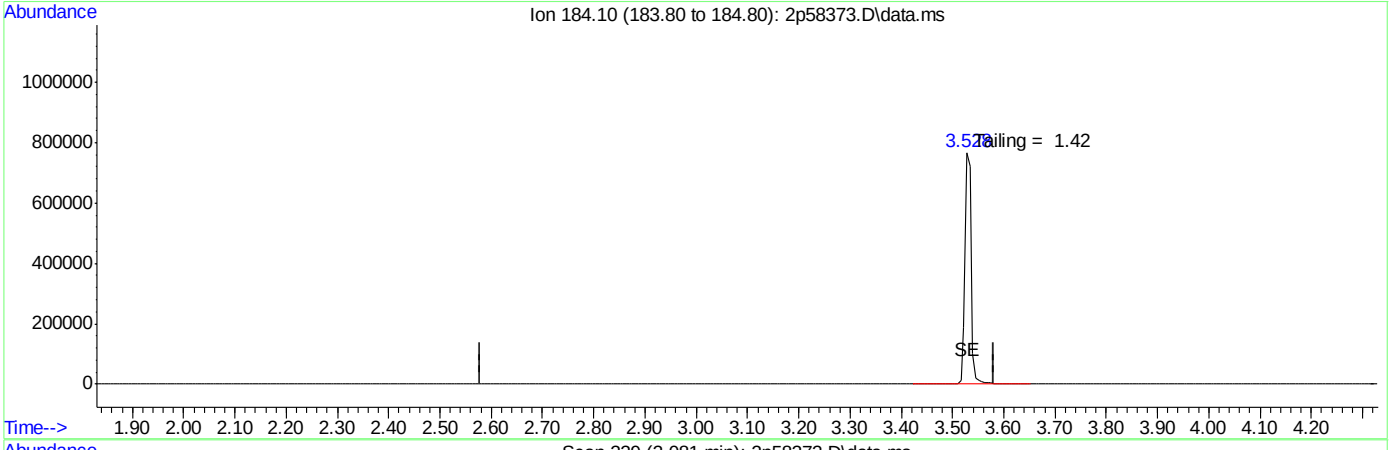
Ion	Exp%	Act%
265.80	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

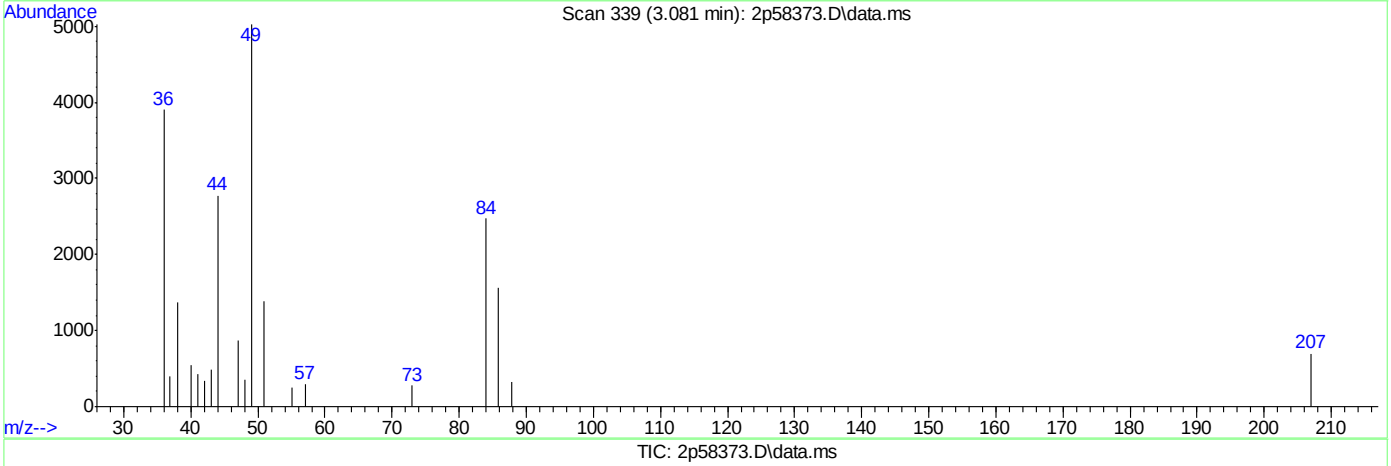
SGS ACCUTEST JC20098

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P2548\
Data File : 2p58373.D
Acq On : 19 Apr 2016 7:47 pm
Operator : sarad
Sample : DFTPP
Misc : op92038,e2p2548
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 19 19:50:49 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP2P.M
Quant Title :
QLast Update : Tue Aug 11 08:57:54 2015
Response via : Initial Calibration





TIC: 2p58373.D\data.ms

(2) Benzidine

3.081min (-3.081) 0.00ppb

response 0

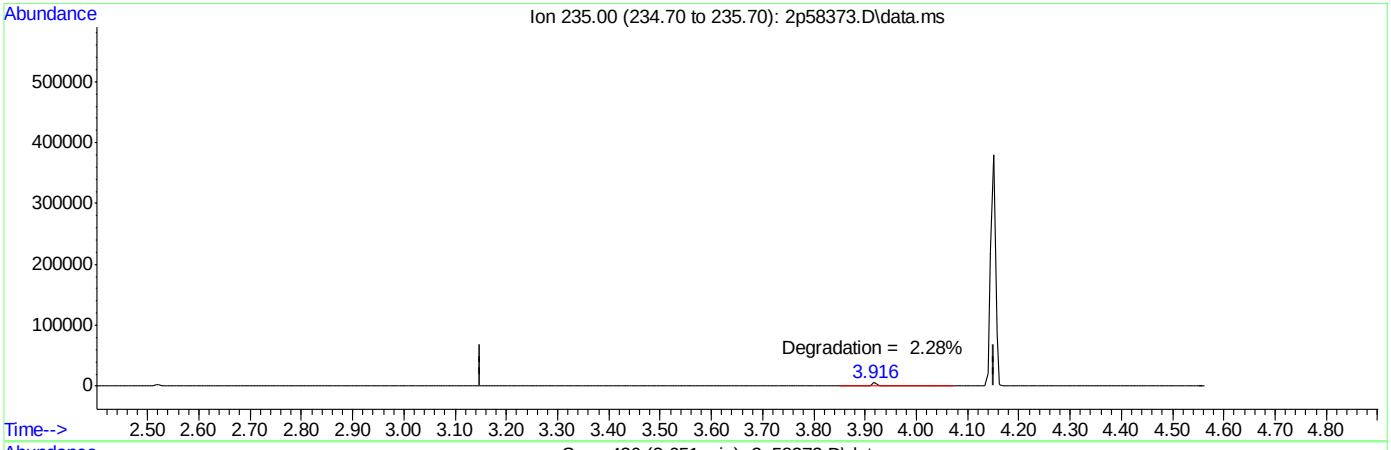
Ion	Exp%	Act%
184.10	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

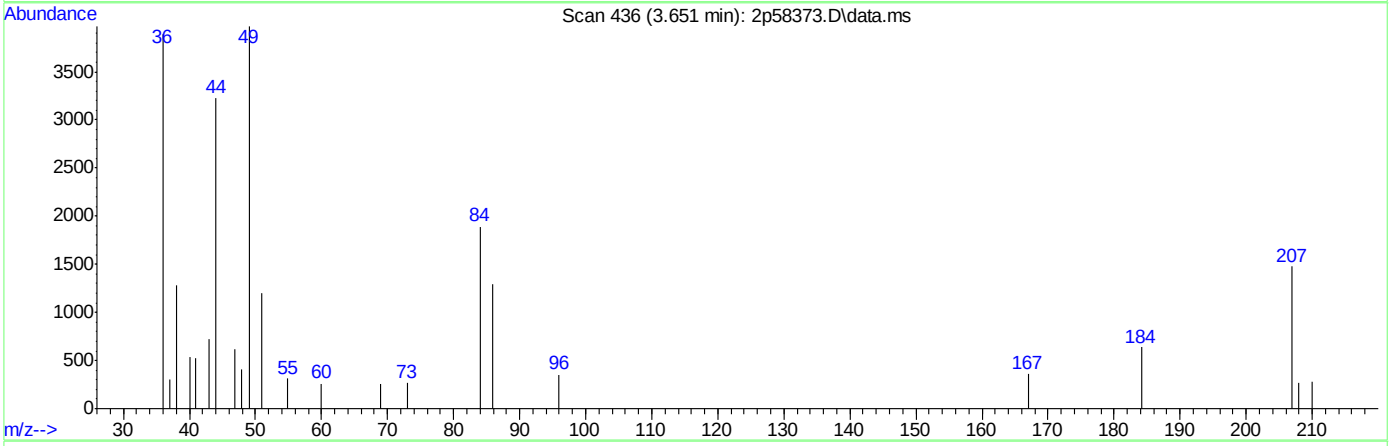
SGS ACCUTEST JC20098

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P2548\
Data File : 2p58373.D
Acq On : 19 Apr 2016 7:47 pm
Operator : sarad
Sample : DFTPP
Misc : op92038,e2p2548
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 19 19:50:49 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP2P.M
Quant Title :
QLast Update : Tue Aug 11 08:57:54 2015
Response via : Initial Calibration





TIC: 2p58373.D\data.ms

(3) PP-DDT

3.651min (-3.651) 0.00ppb

response 0

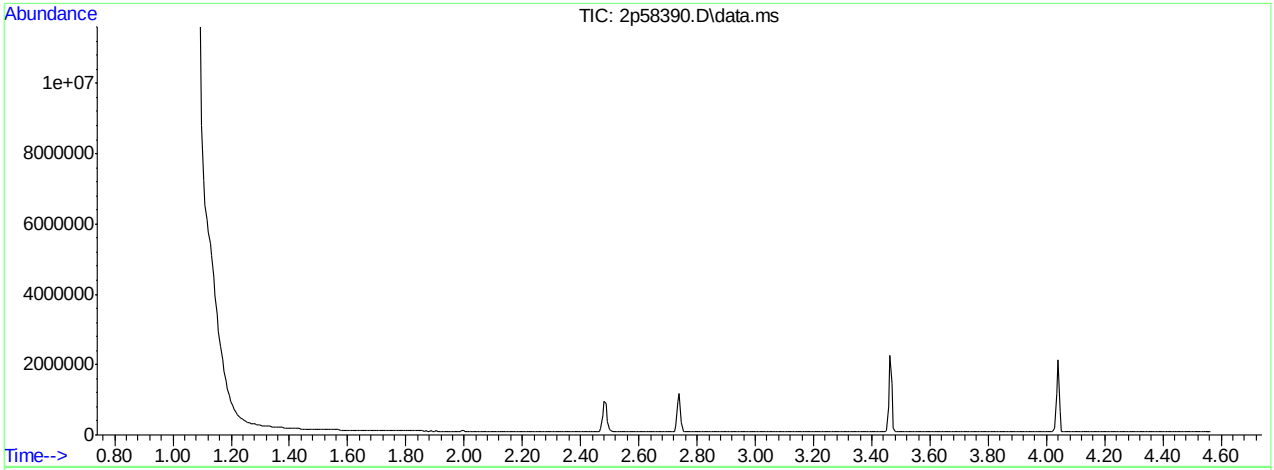
Ion	Exp%	Act%
235.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

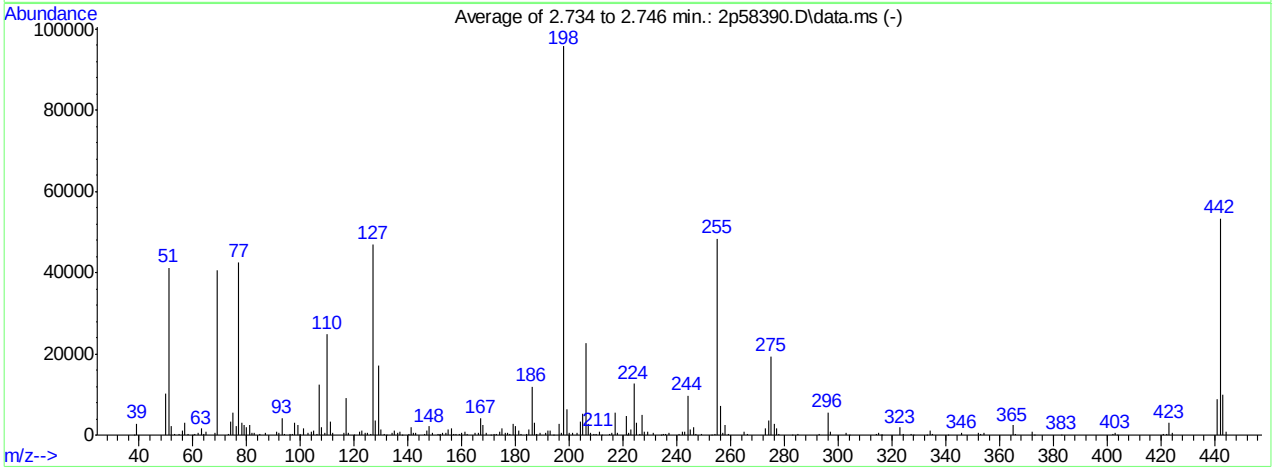
SGS ACCUTEST JC20098

DFTPP

```
Data File : C:\msdchem\1\DATA\2P2549\2p58390.D          Vial: 1
Acq On    : 20 Apr 2016   9:38 am                   Operator: robertl1
Sample    : DFTPP                                   Inst    : MS2P
Misc      : op92038,e2p2549                         Multiplr: 1.00
MS Integration Params: events.e

Method    : C:\msdchem\1\METHODS\dftpp2p.M (ChemStation Integrator)
Title     :
```





AutoFind: Scans 280, 281, 282; Background Corrected with Scan 276

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	43.0	41165	PASS
68	69	0.00	2	1.7	692	PASS
69	198	0.00	100	42.5	40655	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	49.2	47048	PASS
197	198	0.00	1	0.5	453	PASS
198	198	100	100	100.0	95659	PASS
199	198	5	9	6.5	6243	PASS
275	198	10	30	20.3	19408	PASS
365	198	1	100	2.5	2357	PASS
441	443	0.01	100	88.9	8730	PASS
442	198	40	100	55.8	53344	PASS
443	442	17	23	18.4	9817	PASS

2p58390.D dftpp2p.M Wed Apr 20 16:05:27 2016 RPT1

Average of 2.734 to 2.746 min.: 2p58390.D\data.ms
DFTPP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
38.00	137	60.90	369	77.10	42503	93.00	4147
39.10	2795	62.00	573	78.05	3154	93.95	296
50.00	10090	63.00	1533	79.00	2400	96.00	152
51.05	41165	64.05	272	80.00	2047	97.05	189
52.05	2270	65.00	898	81.00	2623	98.00	2963
53.00	193	68.00	692	82.00	653	99.00	2614
54.95	270	69.00	40655	82.95	594	99.95	298
56.00	1134	73.00	213	84.95	288	101.00	1640
57.00	3006	74.00	3345	87.00	430	102.95	479
58.00	217	75.00	5538	91.00	794	104.00	956
59.95	21	76.05	2109	92.00	591	105.00	992

Average of 2.734 to 2.746 min.: 2p58390.D\data.ms
DFTPP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
105.95	324	121.95	870	133.95	449	148.00	2167
107.00	12332	123.00	1085	134.95	1250	148.90	587
108.00	1942	123.95	457	135.95	512	151.00	272
108.95	455	125.05	579	137.00	896	151.70	103
110.00	24964	126.00	191	138.00	91	151.95	231
111.00	3455	127.00	47048	140.10	209	153.00	499
112.00	433	128.00	3701	141.00	1909	153.95	495
116.00	475	129.00	17244	142.00	674	155.00	1318
117.00	9208	130.00	1436	142.95	458	156.05	1586
118.00	640	131.05	240	145.95	364	157.00	338
120.00	88	132.10	115	147.00	1154	157.95	302

Average of 2.734 to 2.746 min.: 2p58390.D\data.ms
DFTPP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
158.90	251	172.95	400	185.00	1427	198.00	95659
160.00	535	174.00	917	186.00	12008	199.00	6243
161.00	866	175.00	1711	187.00	3176	199.95	440
161.95	269	176.00	511	187.95	286	201.35	426
164.95	648	177.00	652	188.95	519	202.95	485
165.95	527	177.90	223	191.00	450	204.00	3214
167.00	4243	179.00	2894	192.00	1061	205.00	5358
168.00	2379	180.00	2171	193.00	1195	206.00	22608
169.00	431	180.95	1082	194.00	105	207.00	2825
170.90	84	181.90	176	196.00	2760	207.95	675
171.90	309	183.95	207	196.90	453	208.95	183

Average of 2.734 to 2.746 min.: 2p58390.D\data.ms
DFTPP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
209.95	288	224.00	12641	240.90	293	256.00	7139
211.05	949	225.00	3109	242.00	777	256.95	512
211.80	132	226.00	241	243.00	798	258.00	2522
214.95	194	227.00	5005	244.00	9766	259.00	333
215.95	477	227.95	789	245.00	1435	264.95	972
217.00	5523	229.00	975	246.00	1807	266.00	151
217.95	681	231.00	450	246.95	317	273.00	1698
221.00	4757	234.00	113	248.90	264	274.00	3543
221.60	90	235.00	193	252.80	127	275.00	19408
221.90	452	235.90	214	254.05	366	276.00	2657
223.00	1339	237.00	564	255.00	48405	277.00	1573

Average of 2.734 to 2.746 min.: 2p58390.D\data.ms
DFTPP
Modified:subtracted

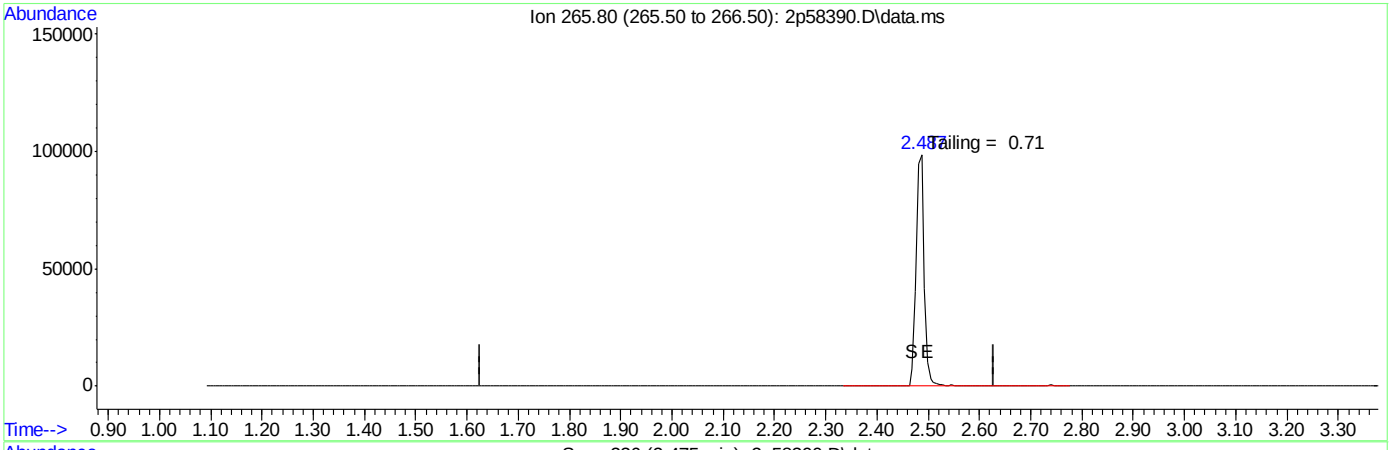
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
278.00	156	316.10	88	353.00	298	421.90	277
282.80	125	323.00	1828	354.00	589	423.00	2987
284.95	269	324.00	332	364.95	2357	423.95	635
293.00	230	326.90	165	366.00	172	441.00	8730

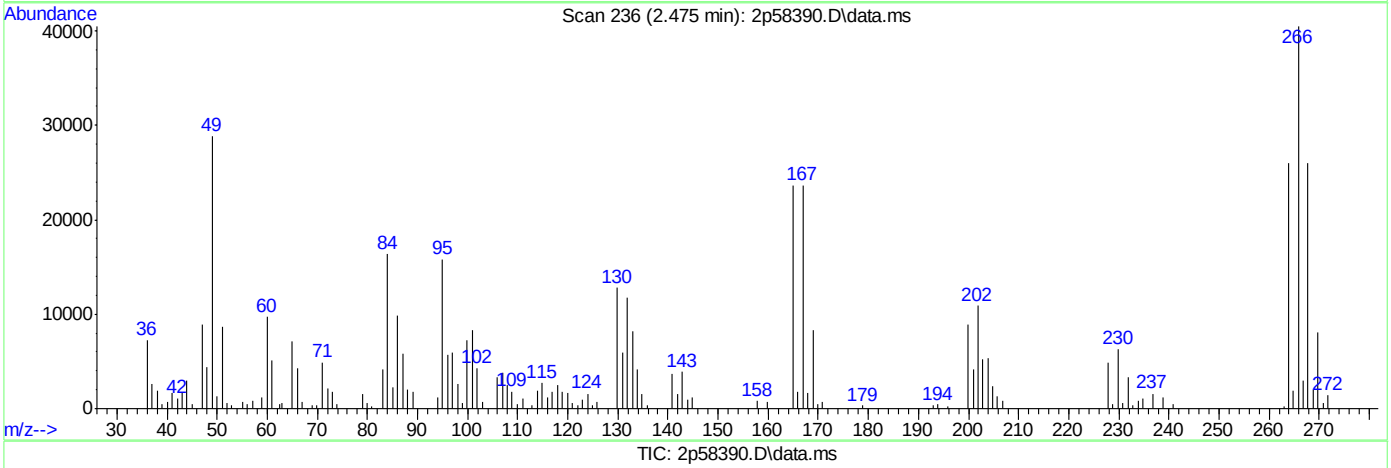
296.00	5657	327.90	101	372.00	931	442.00	53344
297.00	739	333.00	86	373.00	134	443.00	9817
302.95	688	334.00	1031	382.90	147	443.95	909
303.90	142	335.00	304	402.00	294		
314.00	229	340.90	105	402.95	530		
314.90	524	345.90	486	403.90	93		
315.90	126	351.95	478	420.90	361		

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P2549\
Data File : 2p58390.D
Acq On : 20 Apr 2016 9:38 am
Operator : robertl1
Sample : DFTPP
Misc : op92038,e2p2549
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 20 09:41:48 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP2P.M
Quant Title :
QLast Update : Tue Aug 11 08:57:54 2015
Response via : Initial Calibration





TIC: 2p58390.D\data.ms

(1) Pentacholorphenol

2.128min (-2.128) 0.00ppb

response 0

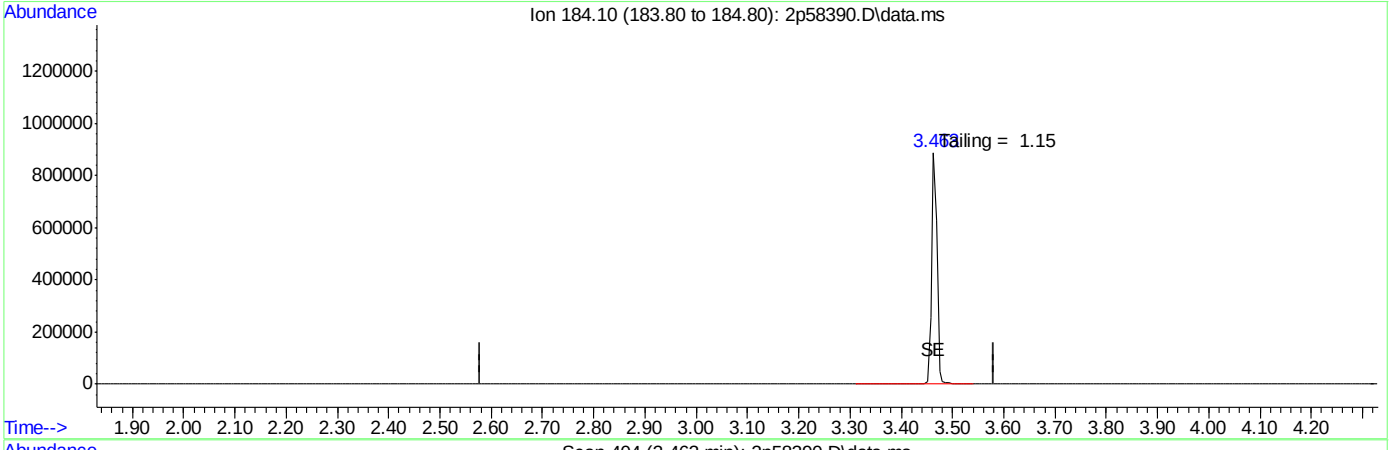
Ion	Exp%	Act%
265.80	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

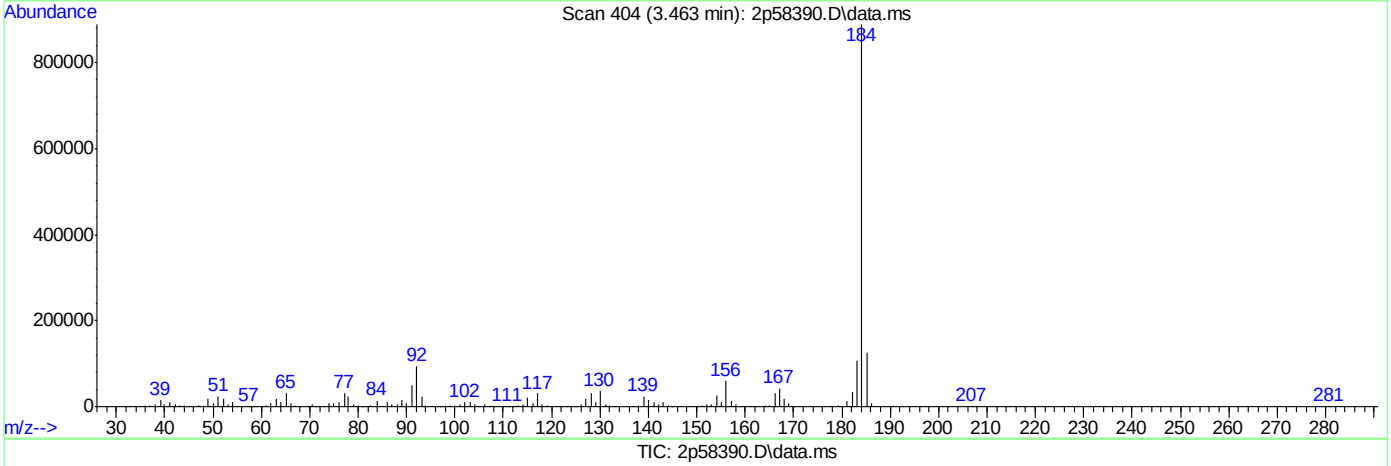
SGS ACCUTEST JC20098

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P2549\
Data File : 2p58390.D
Acq On : 20 Apr 2016 9:38 am
Operator : robertl1
Sample : DFTPP
Misc : op92038,e2p2549
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 20 09:41:48 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP2P.M
Quant Title :
QLast Update : Tue Aug 11 08:57:54 2015
Response via : Initial Calibration





TIC: 2p58390.D\data.ms

(2) Benzidine

3.081min (-3.081) 0.00ppb

response 0

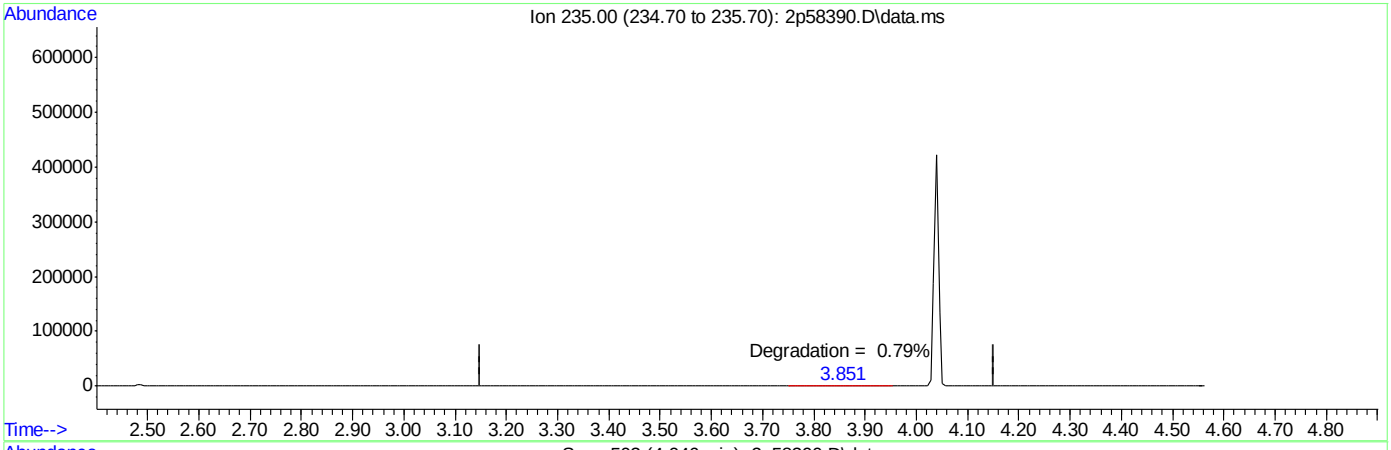
Ion	Exp%	Act%
184.10	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

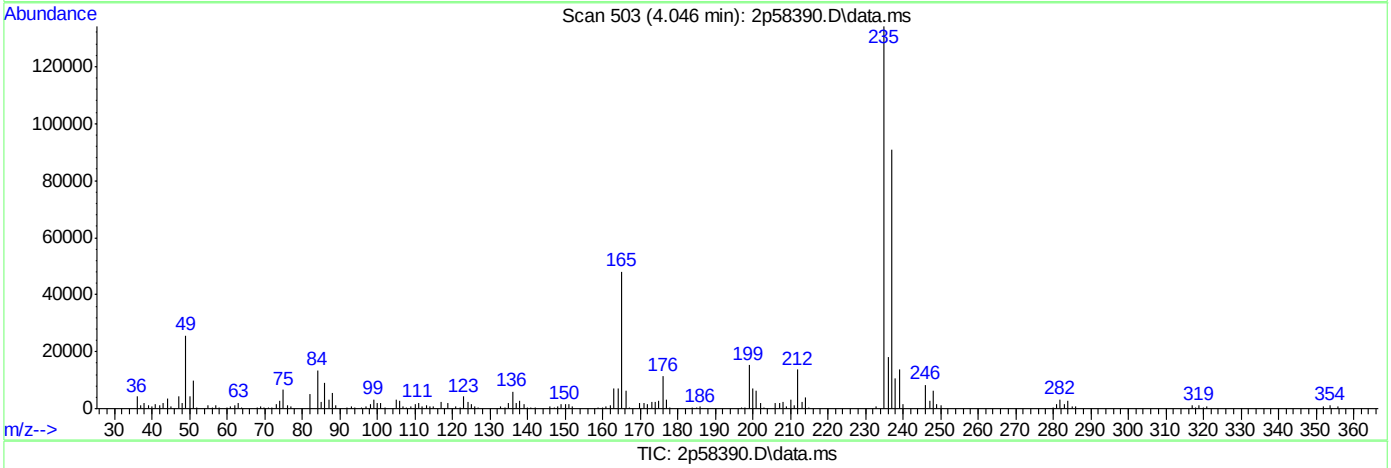
SGS ACCUTEST JC20098

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P2549\
Data File : 2p58390.D
Acq On : 20 Apr 2016 9:38 am
Operator : robertl1
Sample : DFTPP
Misc : op92038,e2p2549
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 20 09:41:48 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP2P.M
Quant Title :
QLast Update : Tue Aug 11 08:57:54 2015
Response via : Initial Calibration





(3) PP-DDT

3.651min (-3.651) 0.00ppb

response 0

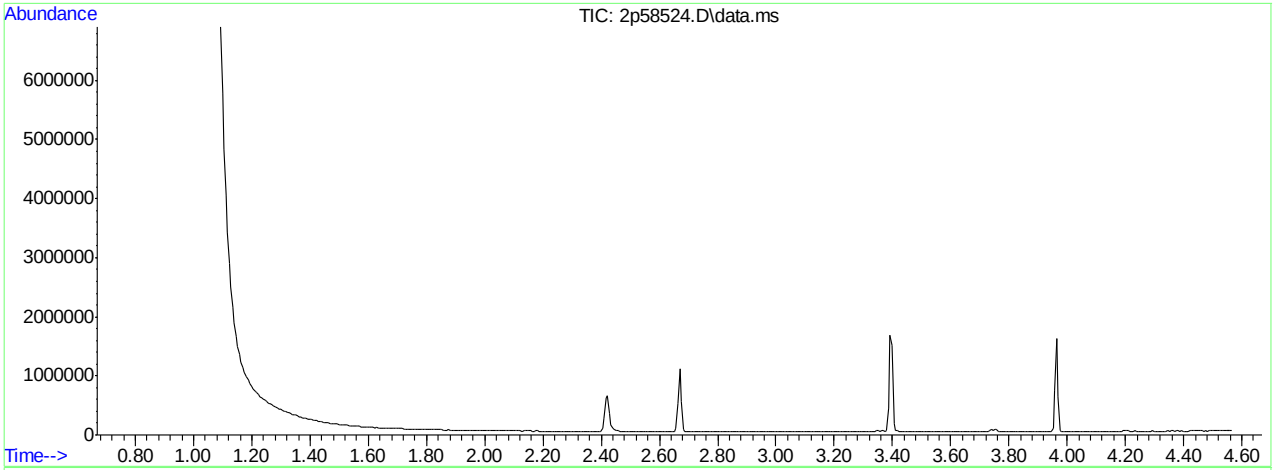
Ion	Exp%	Act%
235.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

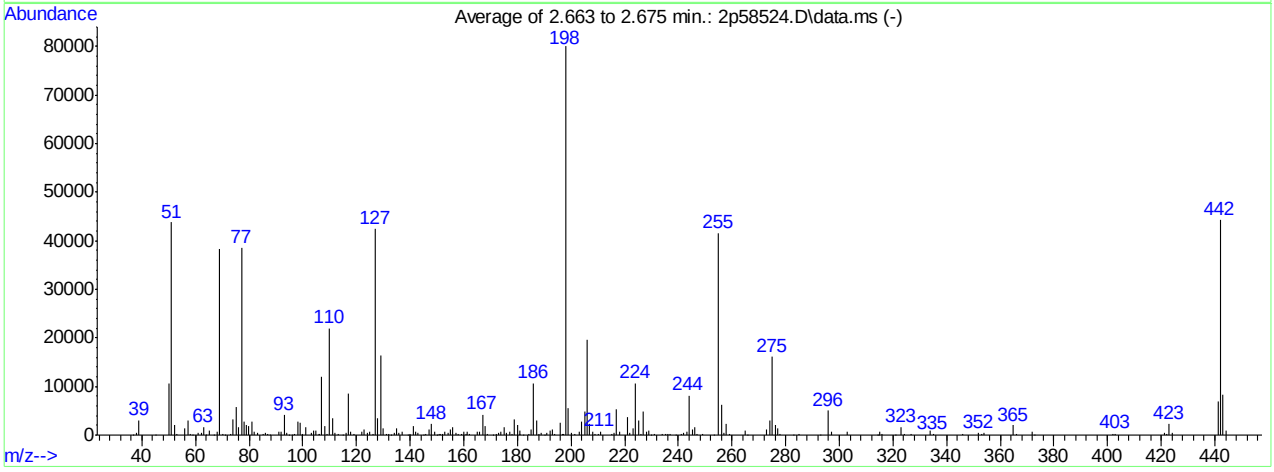
SGS ACCUTEST JC20098

DFTPP

Data File : C:\msdchem\1\DATA\2P2557\2p58524.D Vial: 1
Acq On : 25 Apr 2016 10:05 am Operator: robertl1
Sample : DFTPP Inst : MS2P
Misc : op92038,e2p2557 Multiplr: 1.00
MS Integration Params: events.e

Method : C:\msdchem\1\METHODS\dftpp2p.M (ChemStation Integrator)
Title :





AutoFind: Scans 268, 269, 270; Background Corrected with Scan 265

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	54.7	43762	PASS
68	69	0.00	2	1.8	674	PASS
69	198	0.00	100	47.9	38345	PASS
70	69	0.00	2	0.7	253	PASS
127	198	40	60	53.0	42416	PASS
197	198	0.00	1	0.4	310	PASS
198	198	100	100	100.0	80032	PASS
199	198	5	9	7.0	5598	PASS
275	198	10	30	20.2	16142	PASS
365	198	1	100	2.5	2008	PASS
441	443	0.01	100	83.3	6849	PASS
442	198	40	100	55.3	44268	PASS
443	442	17	23	18.6	8219	PASS

2p58524.D dftpp2p.M Mon Apr 25 17:39:08 2016 RPT1

Average of 2.663 to 2.675 min.: 2p58524.D\data.ms
DFTPP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.90	28	58.95	8	73.00	267	85.00	278
38.00	392	61.00	537	74.00	3211	86.00	538
39.00	3007	62.00	526	75.00	5795	87.00	214
45.00	22	63.00	1639	76.00	1651	87.90	103
50.00	10725	64.00	91	77.05	38480	91.00	712
51.05	43762	65.05	982	78.00	2816	92.00	728
52.00	2117	66.95	63	79.00	2198	93.00	4086
52.95	170	68.00	674	79.95	1853	94.00	441
56.00	1410	69.00	38345	81.00	2819	95.00	74
57.00	2921	70.00	253	82.00	609	96.00	104
58.00	220	71.05	8	82.95	555	97.00	143

Average of 2.663 to 2.675 min.: 2p58524.D\data.ms
DFTPP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
98.00	2707	109.00	176	123.00	1131	134.00	451
99.00	2483	110.00	21974	124.00	578	135.00	1427
99.95	225	111.00	3542	124.95	633	135.95	587
101.00	1590	111.95	550	126.00	256	137.00	683
102.95	545	113.05	183	127.00	42416	138.90	97
104.00	881	115.00	85	128.00	3362	140.00	154
105.00	973	116.00	540	129.00	16463	141.00	1874
105.90	141	117.00	8436	130.00	1341	142.00	716
106.10	169	117.95	658	130.95	344	142.95	505
107.00	12005	119.00	188	131.95	209	144.90	113
108.00	1954	121.95	731	133.00	92	145.95	294

Average of 2.663 to 2.675 min.: 2p58524.D\data.ms
DFTPP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
147.00	1111	157.05	388	168.90	270	180.90	266
147.95	2270	157.80	192	170.90	102	181.05	836
148.95	597	158.95	256	172.00	184	182.00	89
149.90	109	159.95	655	173.00	529	184.05	247
150.95	203	160.90	248	173.95	705	185.00	1271
151.20	158	161.05	729	175.00	1613	186.00	10718
152.00	222	162.00	252	176.00	449	187.00	3048
152.95	667	164.95	792	176.95	728	188.00	310
154.00	564	166.05	659	178.00	252	189.00	532
155.00	1184	167.00	4255	178.95	3160	190.00	86
156.00	1585	168.00	1957	180.00	2123	190.95	378

Average of 2.663 to 2.675 min.: 2p58524.D\data.ms
DFTPP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
192.00	992	204.05	2851	217.95	766	231.00	343
193.05	1208	205.05	4934	220.95	3660	234.05	278
194.00	183	206.00	19643	221.90	413	235.05	257
196.00	2584	207.00	2423	223.00	1294	235.90	130
196.70	310	208.00	780	224.00	10702	237.00	312
197.00	179	208.95	251	225.00	2957	238.80	89
198.00	80032	210.15	297	226.10	131	241.00	140
199.00	5598	210.95	750	227.00	4956	242.00	550
199.95	454	215.00	144	227.95	646	243.00	611
201.45	349	215.95	481	228.95	865	244.00	8114
202.95	647	217.00	5328	229.90	83	245.05	1208

Average of 2.663 to 2.675 min.: 2p58524.D\data.ms
DFTPP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
246.00	1512	273.00	1260	303.00	601	345.95	299
246.90	241	274.00	2928	314.00	88	351.95	436
248.90	274	275.00	16142	314.80	103	353.05	342
253.20	92	276.00	2170	314.95	593	354.00	502

255.00	41600	277.00	1303	315.95	263	364.95	2008
256.00	6128	277.95	253	320.80	88	365.95	257
257.00	399	283.00	88	323.00	1620	372.00	609
257.95	2410	284.95	226	324.05	236	372.90	106
258.95	328	292.90	113	326.90	254	402.05	259
264.95	860	296.00	5041	334.00	997	402.95	344
265.90	116	297.00	673	335.00	132	421.00	377

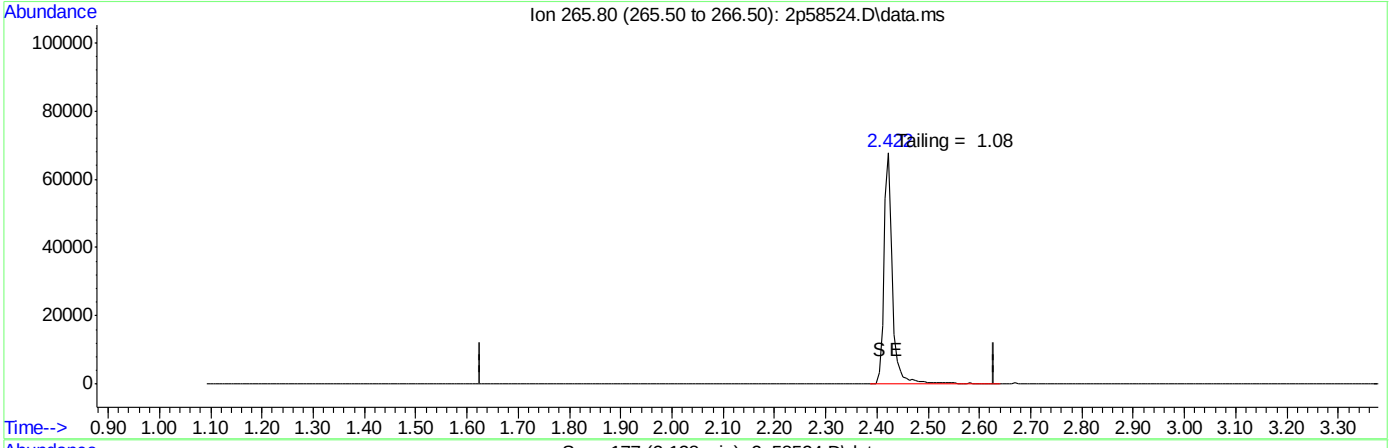
Average of 2.663 to 2.675 min.: 2p58524.D\data.ms
DFTPP
Modified:subtracted

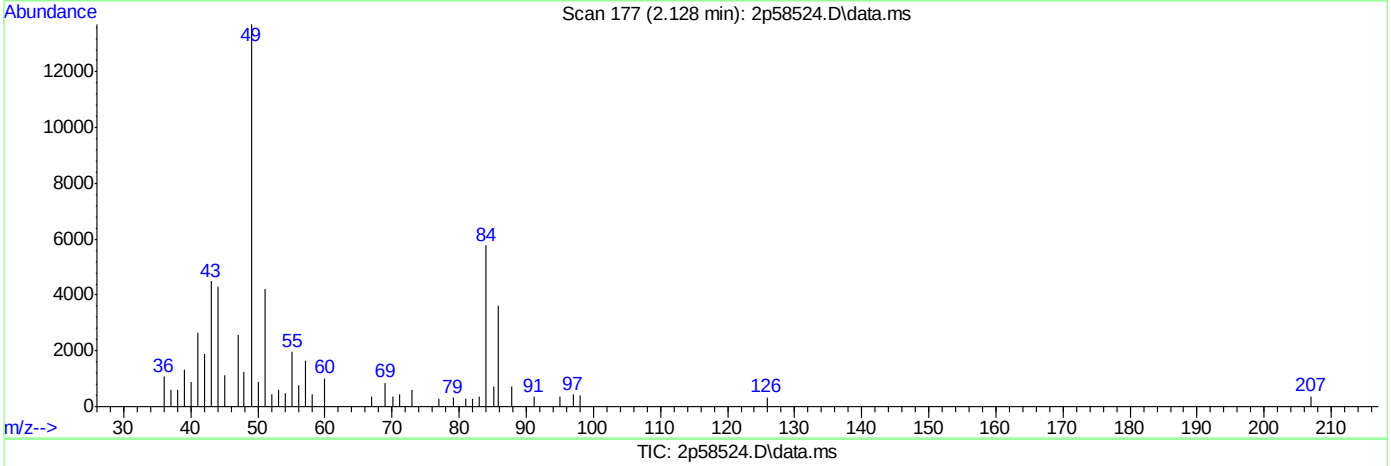
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
421.95	292						
423.00	2220						
424.00	368						
441.05	6849						
442.00	44268						
443.00	8219						
444.00	860						

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P2557\
Data File : 2p58524.D
Acq On : 25 Apr 2016 10:05 am
Operator : robertl1
Sample : DFTPP
Misc : op92038,e2p2557
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 25 10:09:31 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP2P.M
Quant Title :
QLast Update : Tue Aug 11 08:57:54 2015
Response via : Initial Calibration





TIC: 2p58524.D\data.ms

(1) Pentacholorphenol

2.128min (-2.128) 0.00ppb

response 0

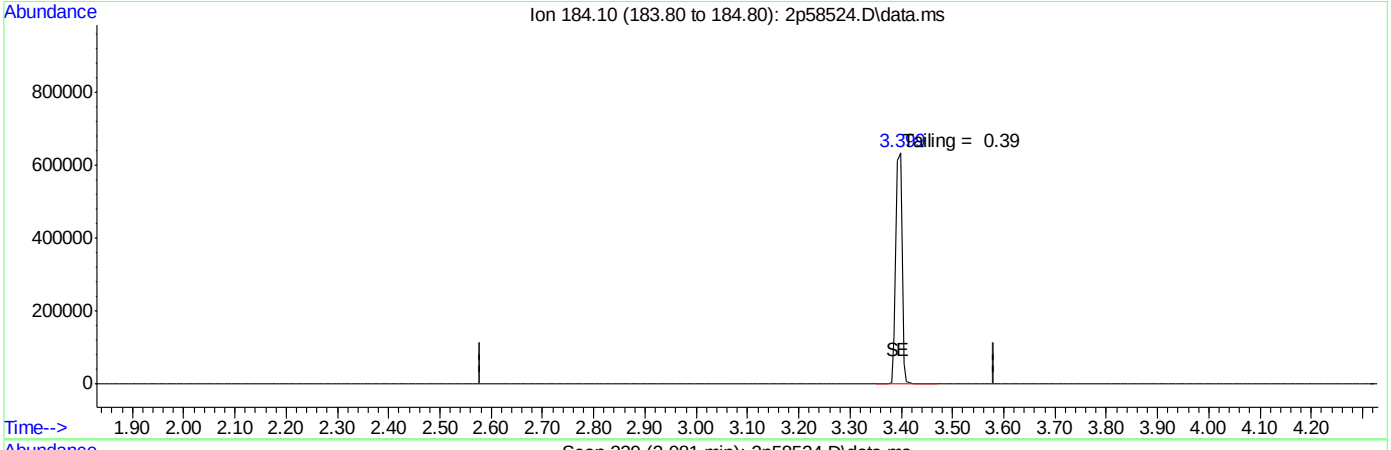
Ion	Exp%	Act%
265.80	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

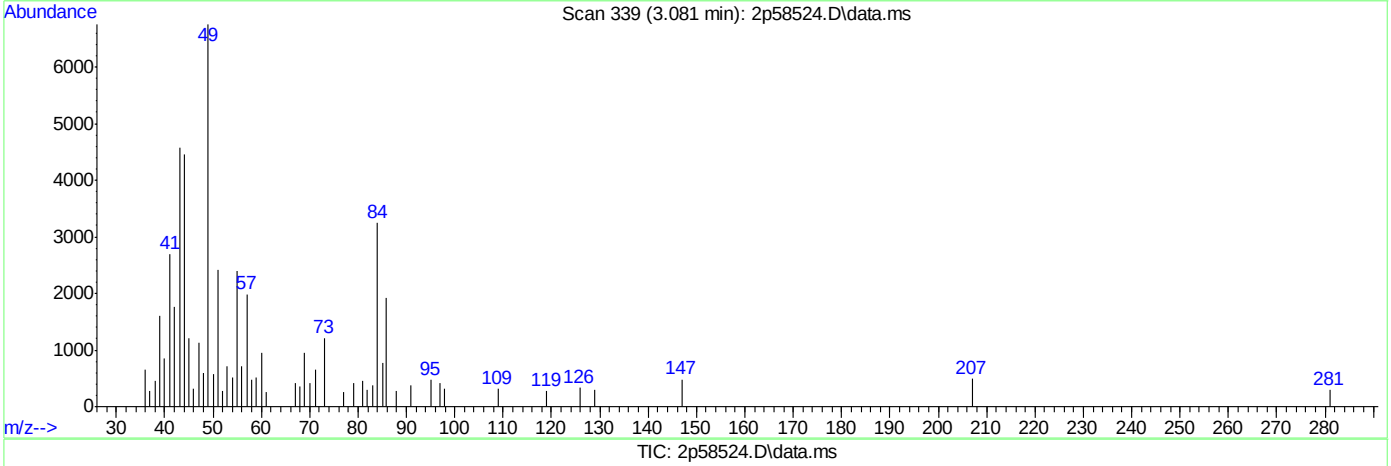
SGS ACCUTEST JC20098

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P2557\
Data File : 2p58524.D
Acq On : 25 Apr 2016 10:05 am
Operator : robertl1
Sample : DFTPP
Misc : op92038,e2p2557
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 25 10:09:31 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP2P.M
Quant Title :
QLast Update : Tue Aug 11 08:57:54 2015
Response via : Initial Calibration





TIC: 2p58524.D\data.ms

(2) Benzidine

3.081min (-3.081) 0.00ppb

response 0

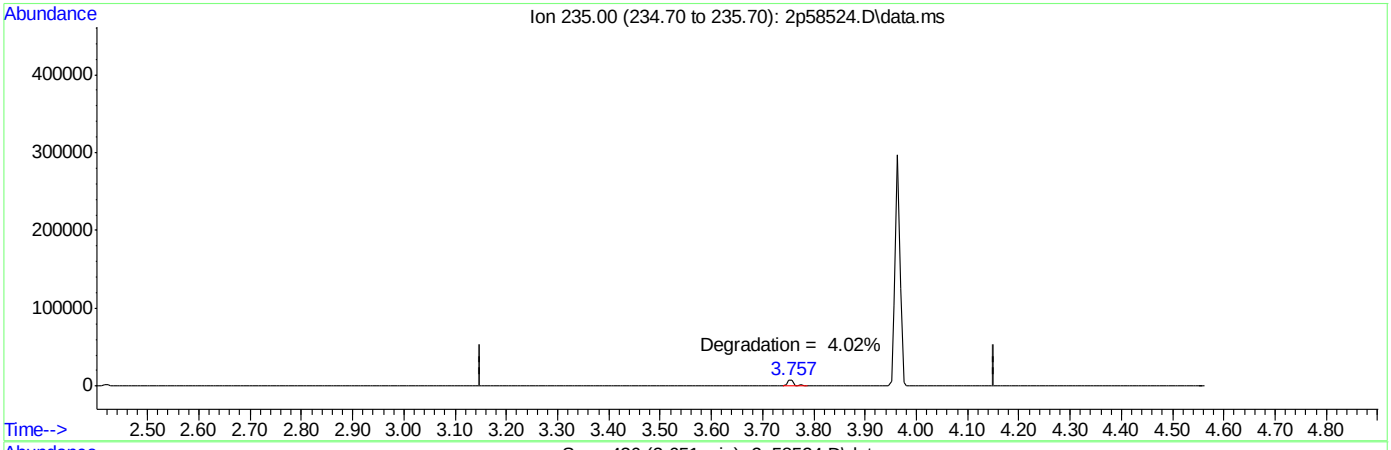
Ion	Exp%	Act%
184.10	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

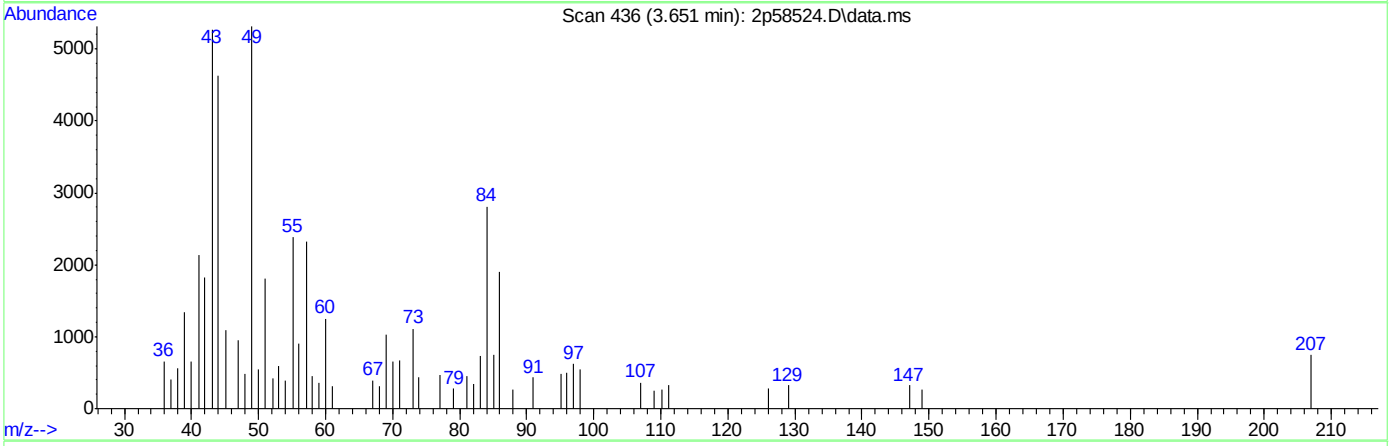
SGS ACCUTEST JC20098

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P2557\
Data File : 2p58524.D
Acq On : 25 Apr 2016 10:05 am
Operator : robertl1
Sample : DFTPP
Misc : op92038,e2p2557
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 25 10:09:31 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP2P.M
Quant Title :
QLast Update : Tue Aug 11 08:57:54 2015
Response via : Initial Calibration





TIC: 2p58524.D\data.ms

(3) PP-DDT

3.651min (-3.651) 0.00ppb

response 0

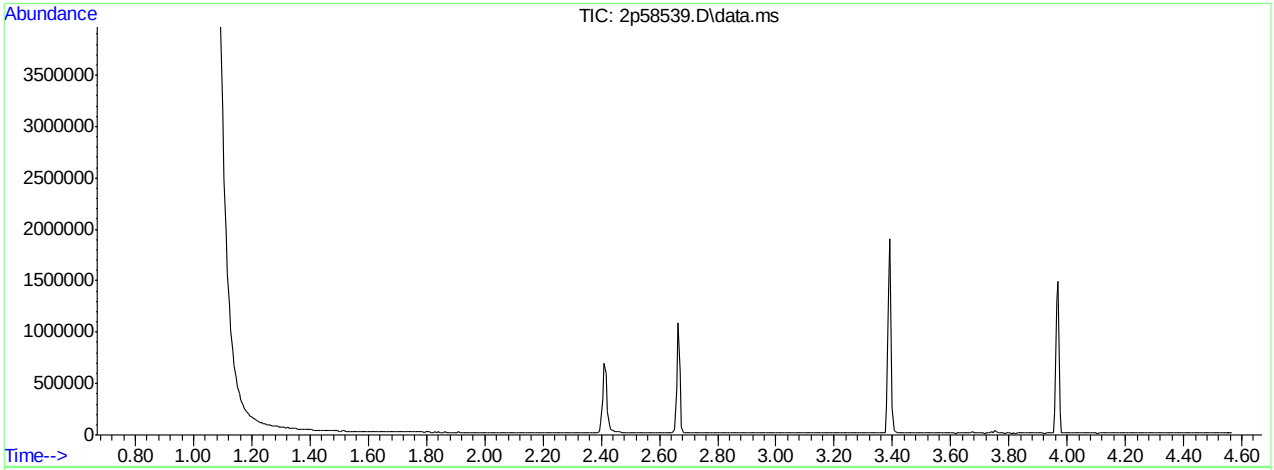
Ion	Exp%	Act%
235.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

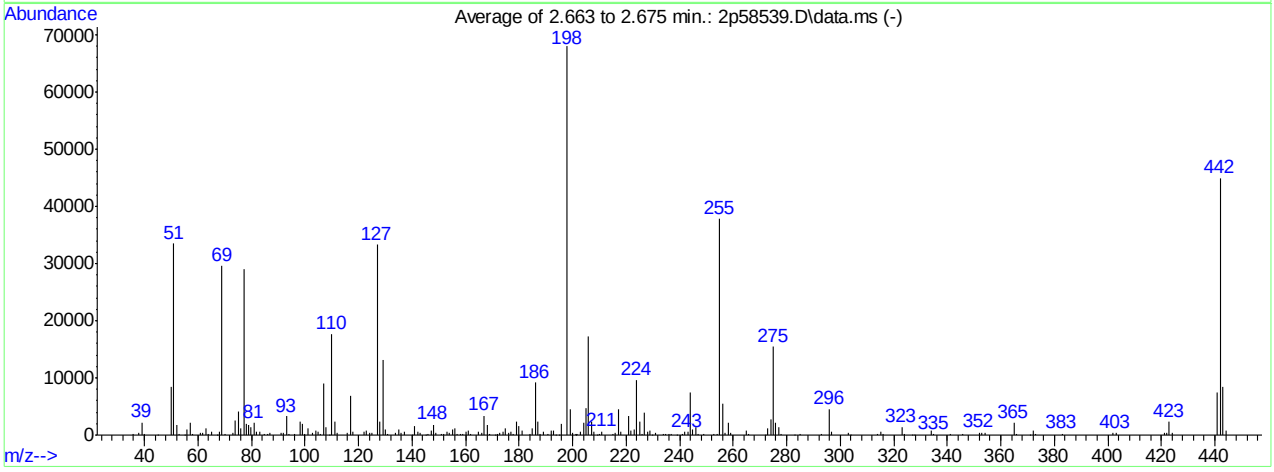
SGS ACCUTEST JC20098

DFTPP

Data File : C:\msdchem\1\DATA\2P2559\2p58539.D Vial: 1
Acq On : 25 Apr 2016 6:47 pm Operator: ashleyn
Sample : DFTPP Inst : MS2P
Misc : op92038,e2p2559 Multiplr: 1.00
MS Integration Params: events.e

Method : C:\MSDCHEM\1\METHODS\DFTPP2P.M (ChemStation Integrator)
Title :





AutoFind: Scans 268, 269, 270; Background Corrected with Scan 263

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	49.3	33509	PASS
68	69	0.00	2	1.8	538	PASS
69	198	0.00	100	43.5	29576	PASS
70	69	0.00	2	0.9	268	PASS
127	198	40	60	48.9	33250	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	67974	PASS
199	198	5	9	6.7	4549	PASS
275	198	10	30	22.8	15471	PASS
365	198	1	100	3.2	2159	PASS
441	443	0.01	100	86.6	7370	PASS
442	198	40	100	66.1	44954	PASS
443	442	17	23	18.9	8506	PASS

2p58539.D DFTPP2P.M Mon Apr 25 19:20:33 2016 RPT1

Average of 2.663 to 2.675 min.: 2p58539.D\data.ms
DFTPP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	209	57.00	2223	73.00	305	85.00	274
38.00	341	57.95	184	74.05	2495	85.90	166
39.00	2177	60.90	420	75.00	4170	86.95	352
39.95	154	61.95	413	76.00	1234	91.00	446
45.00	98	63.00	1217	77.10	29048	92.00	313
50.00	8471	64.00	117	78.05	1975	93.00	3304
51.00	33509	65.00	595	79.00	1867	93.90	143
52.00	1703	67.10	87	79.95	1346	96.00	120
52.90	124	68.00	538	81.00	2138	98.00	2442
55.00	48	69.00	29576	82.00	530	99.00	1969
56.00	1048	69.95	268	82.95	522	99.90	188

Average of 2.663 to 2.675 min.: 2p58539.D\data.ms
DFTPP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
101.00	1172	115.95	477	130.95	241	147.00	763
102.90	404	117.00	6918	133.90	353	148.00	1778
103.95	777	117.90	505	135.00	934	149.05	408
105.00	544	122.05	602	135.95	451	151.10	169
105.85	246	122.95	823	137.00	589	151.90	131
107.00	9107	124.00	368	140.10	98	152.95	552
108.00	1384	124.95	354	140.95	1597	153.95	337
108.90	106	127.00	33250	142.00	568	155.00	985
110.00	17682	128.00	2363	142.90	463	156.00	1153
111.00	2314	129.00	13146	145.00	93	156.95	289
111.95	329	130.00	1003	146.00	197	157.90	218

Average of 2.663 to 2.675 min.: 2p58539.D\data.ms
DFTPP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
159.00	170	172.90	405	186.00	9139	198.95	4549
160.00	551	174.00	649	187.00	2402	199.90	338
161.05	758	175.00	1273	187.95	203	201.10	161
161.95	194	175.95	415	188.95	604	201.30	104
164.90	553	177.00	506	190.95	290	201.80	156
165.95	453	177.95	247	191.90	785	202.95	505
167.00	3383	178.90	2385	192.95	862	204.00	2217
168.00	1718	180.00	1655	193.90	99	205.00	4657
169.00	186	181.00	849	195.10	94	206.00	17297
170.90	84	183.90	142	196.00	2030	207.00	2451
171.95	247	185.00	1126	197.95	67974	207.95	644

Average of 2.663 to 2.675 min.: 2p58539.D\data.ms
DFTPP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
209.00	99	225.00	2373	238.90	95	255.00	37833
210.15	278	225.90	266	240.95	292	256.00	5569
210.95	670	227.00	3969	241.95	514	256.90	463
214.90	120	227.95	576	243.00	567	258.00	2072
215.95	317	229.00	763	244.00	7387	258.95	396
217.00	4535	229.90	86	245.00	913	264.95	759
217.90	503	231.00	375	246.00	1421	265.90	190
221.00	3391	233.95	234	246.95	276	272.00	84
221.90	708	234.85	199	248.95	225	272.95	1168
223.00	1026	235.90	172	252.70	109	274.00	2833
224.00	9650	237.00	267	253.90	175	275.00	15471

Average of 2.663 to 2.675 min.: 2p58539.D\data.ms
DFTPP
Modified:subtracted

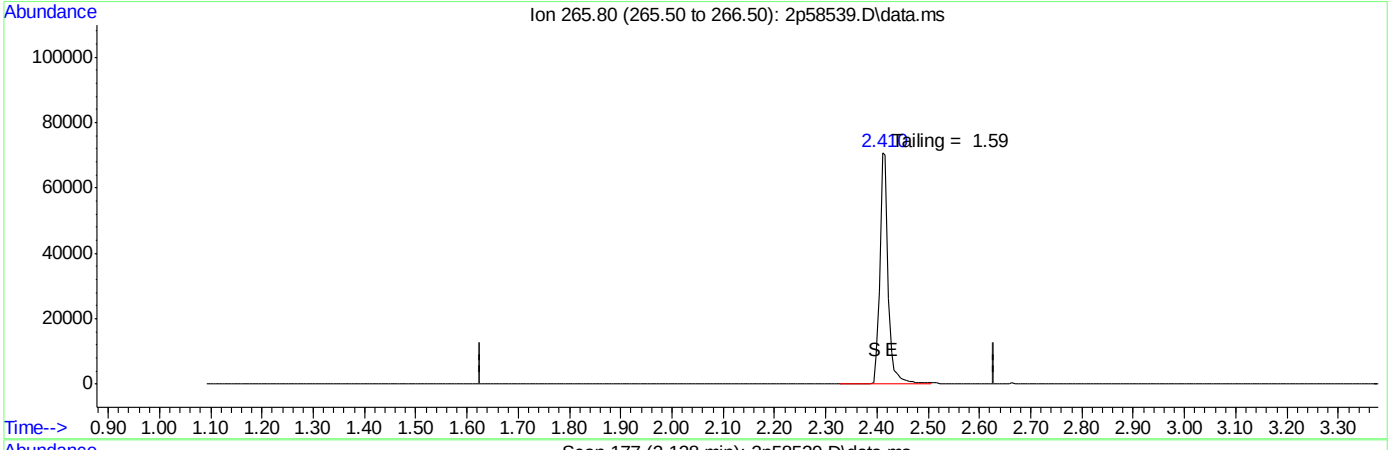
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
276.00	2124	315.00	561	353.00	336	422.00	322
276.95	1386	316.00	218	354.05	337	423.00	2267
277.90	226	323.00	1456	364.95	2159	424.00	456
282.90	84	324.00	236	365.95	228	441.00	7370

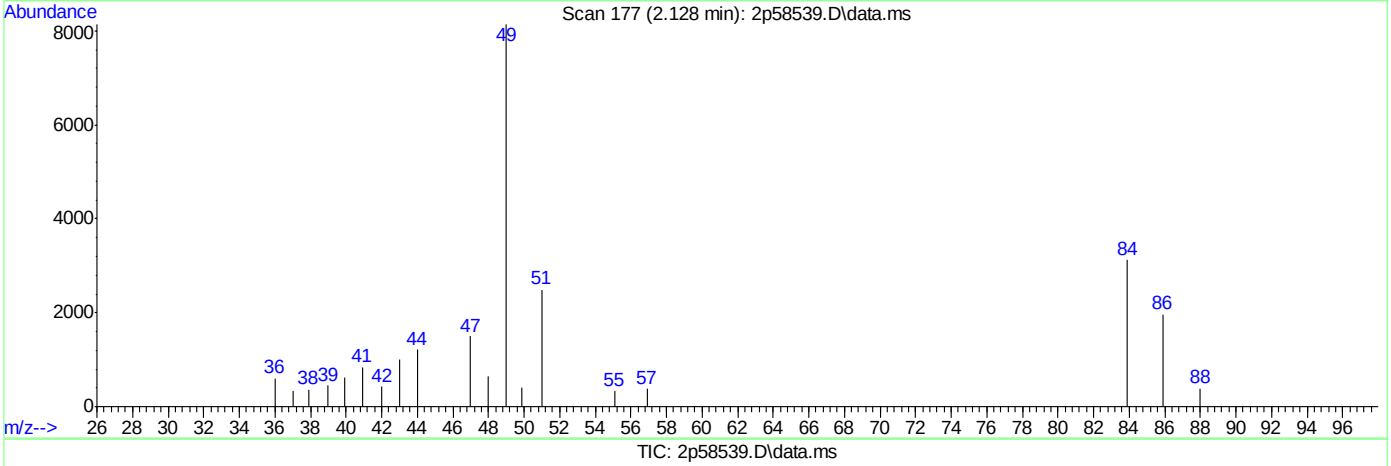
284.95	219	326.90	103	370.90	88	442.00	44954
292.90	208	327.90	104	372.00	697	443.00	8506
296.00	4608	334.00	769	372.95	232	444.00	889
296.95	599	335.00	151	382.95	205		
303.00	478	340.95	183	401.95	307		
303.90	89	345.95	248	402.95	382		
313.90	230	352.00	449	421.00	429		

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P2559\
Data File : 2p58539.D
Acq On : 25 Apr 2016 6:47 pm
Operator : ashleyn
Sample : DFTPP
Misc : op92038,e2p2559
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 25 18:50:48 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP2P.M
Quant Title :
QLast Update : Tue Aug 11 08:57:54 2015
Response via : Initial Calibration





TIC: 2p58539.D\data.ms

(1) Pentacholorphenol

2.128min (-2.128) 0.00ppb

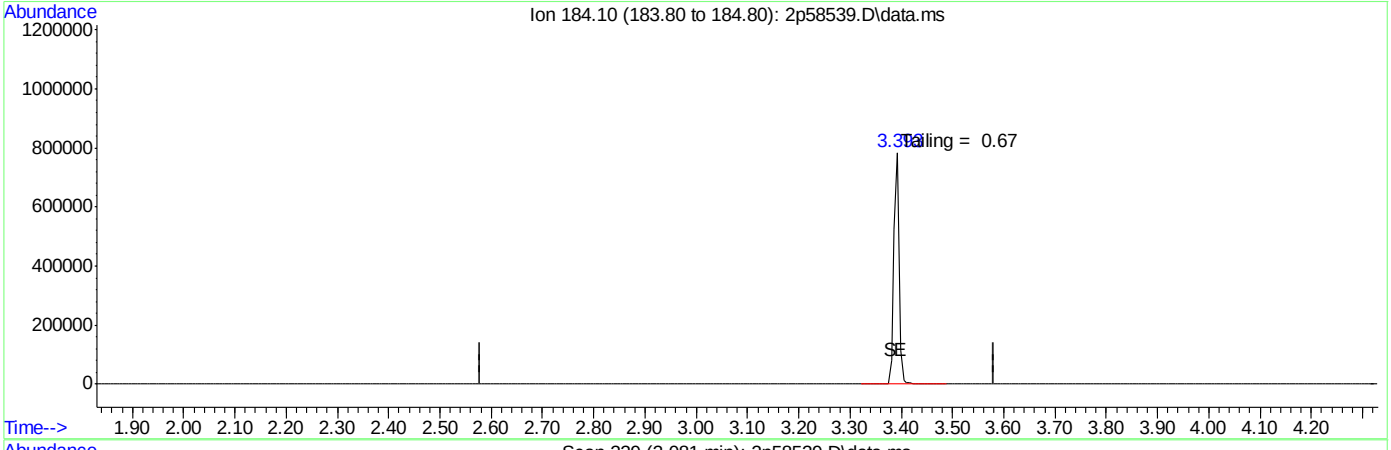
response 0

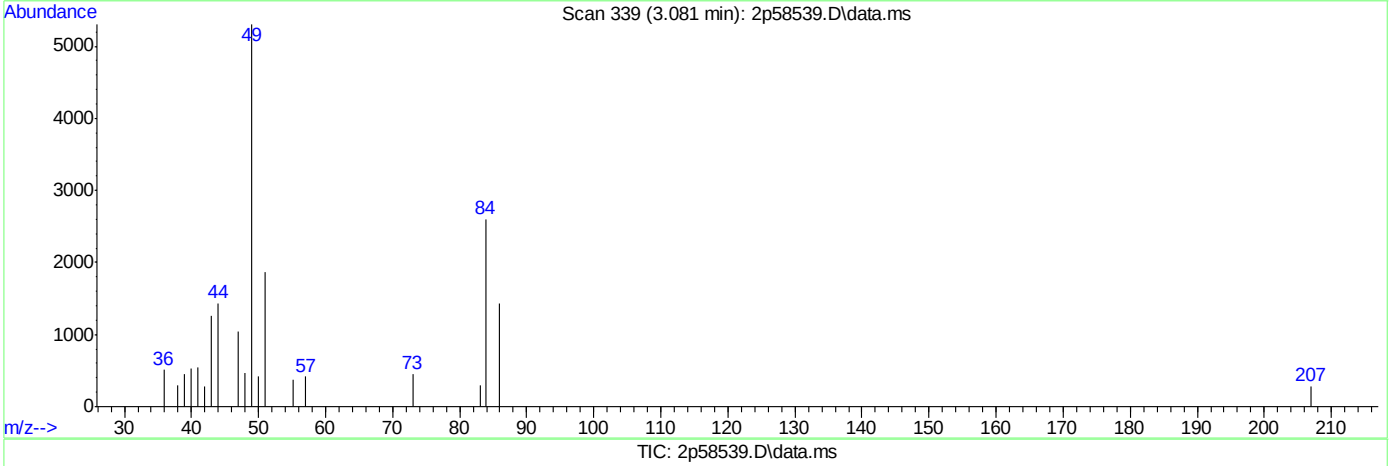
Ion	Exp%	Act%
265.80	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P2559\
Data File : 2p58539.D
Acq On : 25 Apr 2016 6:47 pm
Operator : ashleyn
Sample : DFTPP
Misc : op92038,e2p2559
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 25 18:50:48 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP2P.M
Quant Title :
QLast Update : Tue Aug 11 08:57:54 2015
Response via : Initial Calibration





TIC: 2p58539.D\data.ms

(2) Benzidine

3.081min (-3.081) 0.00ppb

response 0

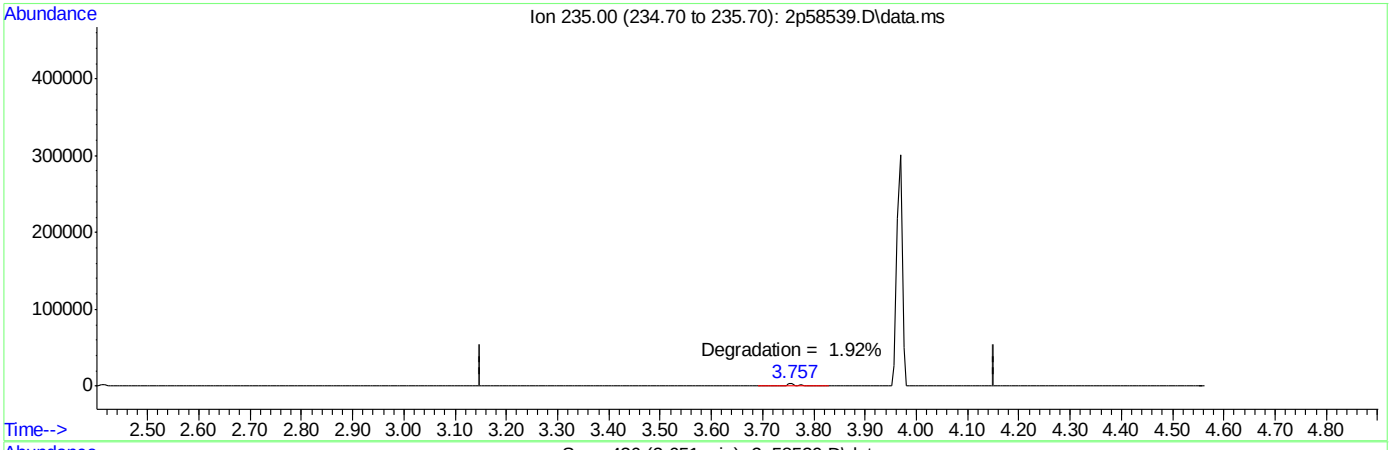
Ion	Exp%	Act%
184.10	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

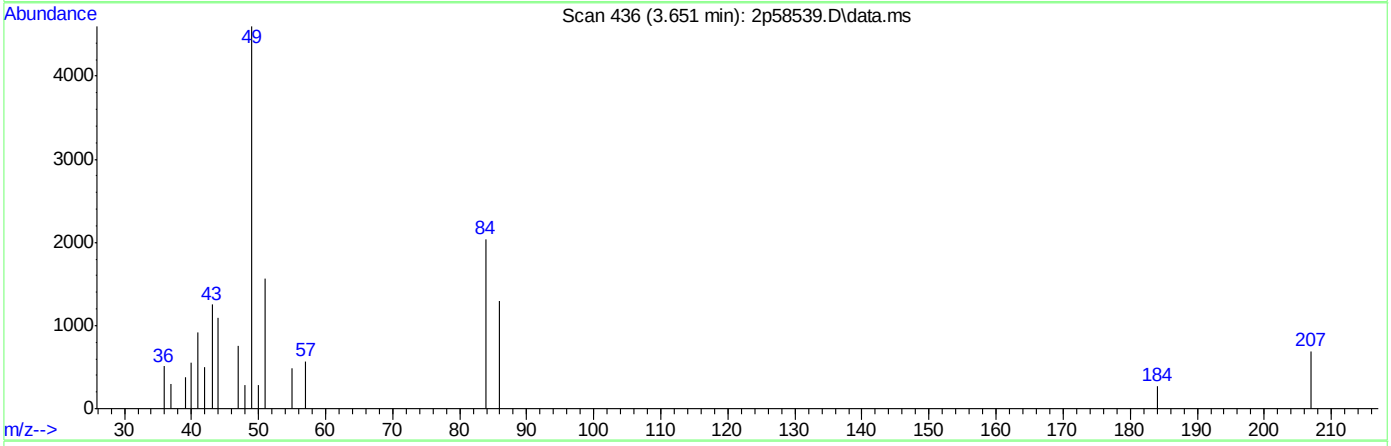
SGS ACCUTEST JC20098

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P2559\
Data File : 2p58539.D
Acq On : 25 Apr 2016 6:47 pm
Operator : ashleyn
Sample : DFTPP
Misc : op92038,e2p2559
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 25 18:50:48 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP2P.M
Quant Title :
QLast Update : Tue Aug 11 08:57:54 2015
Response via : Initial Calibration





TIC: 2p58539.D\data.ms

(3) PP-DDT

3.651min (-3.651) 0.00ppb

response 0

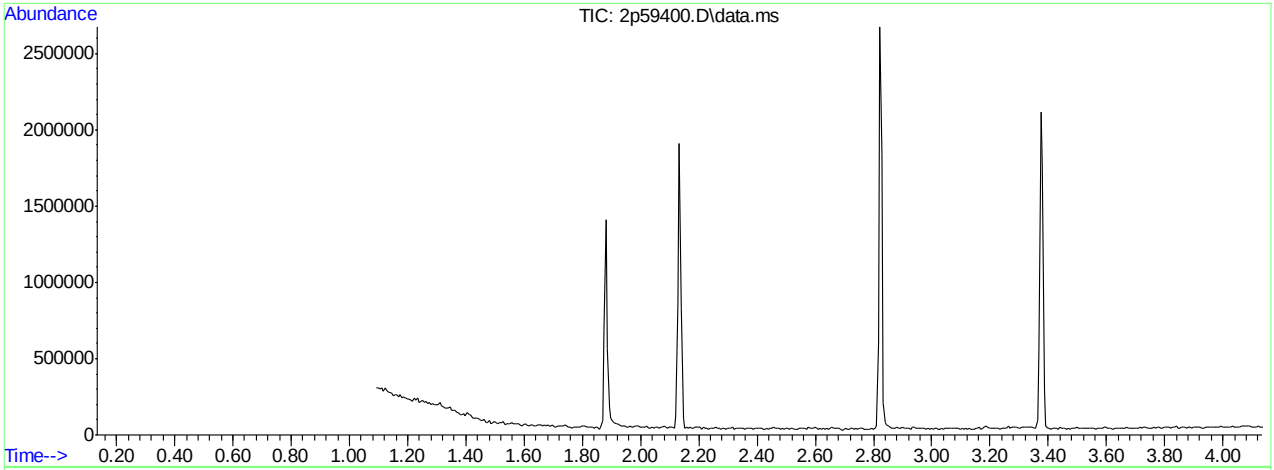
Ion	Exp%	Act%
235.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

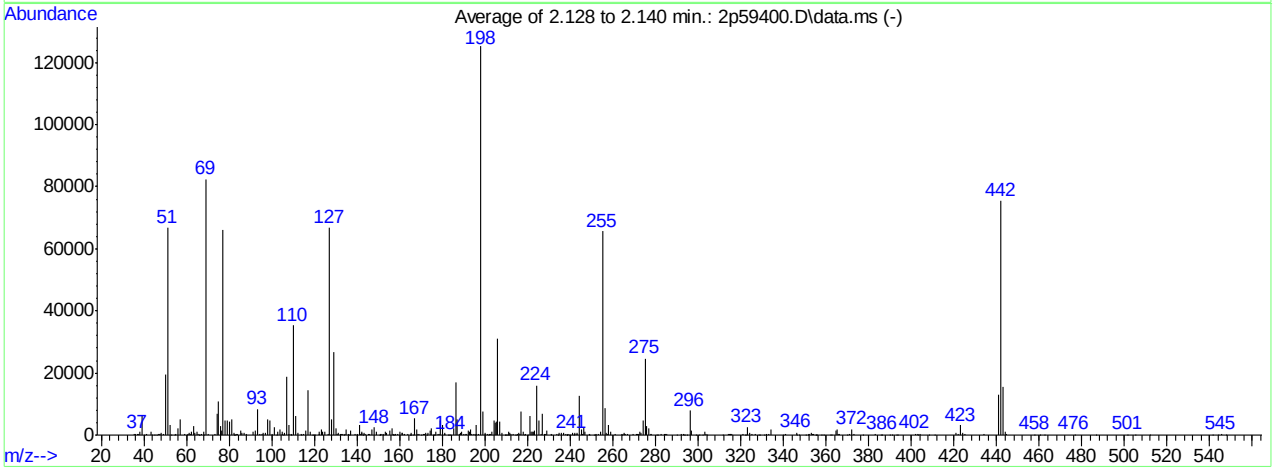
SGS ACCUTEST JC20098

DFTPP

Data File : C:\msdchem\1\DATA\2P2594\2p59400.D Vial: 1
Acq On : 20 May 2016 6:56 pm Operator: seanb1
Sample : dftpp Inst : MS2P
Misc : op94078,e2p2594 Multiplr: 1.00
MS Integration Params: events.e

Method : C:\MSDCHEM\1\METHODS\DFTPP2P.M (ChemStation Integrator)
Title :





AutoFind: Scans 177, 178, 179; Background Corrected with Scan 174

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	53.3	66710	PASS
68	69	0.00	2	1.5	1274	PASS
69	198	0.00	100	65.9	82490	PASS
70	69	0.00	2	0.5	408	PASS
127	198	40	60	53.3	66677	PASS
197	198	0.00	1	0.2	309	PASS
198	198	100	100	100.0	125179	PASS
199	198	5	9	6.2	7713	PASS
275	198	10	30	19.7	24675	PASS
365	198	1	100	1.5	1840	PASS
441	443	0.01	100	82.2	12889	PASS
442	198	40	100	60.2	75395	PASS
443	442	17	23	20.8	15682	PASS

2p59400.D DFTPP2P.M Mon May 23 12:18:18 2016 RPT1

Average of 2.128 to 2.140 min.: 2p59400.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.10	300	46.00	100	54.80	521	65.00	1241
36.00	204	46.80	225	55.90	2171	65.20	221
36.90	382	47.00	243	56.95	4937	65.80	146
37.20	323	47.70	262	58.95	202	66.10	91
38.00	944	47.95	565	59.90	147	67.10	405
39.10	6052	49.00	439	60.80	225	67.80	30
39.90	18	50.00	19384	61.00	600	68.10	1274
40.90	402	51.00	66710	61.80	368	68.95	82490
43.00	1056	52.00	3413	62.05	958	69.95	408
43.90	162	52.70	128	63.05	3051	73.00	535
44.60	178	54.40	177	63.95	566	74.05	6835

Average of 2.128 to 2.140 min.: 2p59400.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
75.00	10943	83.20	291	95.85	712	105.30	124
76.00	3000	83.95	342	97.10	657	106.05	914
76.30	1396	85.05	1560	98.00	5124	106.95	18918
77.00	65946	85.90	584	99.00	4599	107.70	367
78.05	4846	86.95	604	99.95	529	108.05	3401
78.95	4723	87.80	462	101.00	2413	108.80	177
80.05	4218	90.90	1166	102.10	176	109.20	212
80.95	4911	92.05	1445	102.90	938	110.00	35224
81.95	782	93.00	8475	103.95	1778	111.05	6036
82.30	120	94.10	358	104.70	240	112.10	784
82.70	117	95.10	213	105.00	1164	113.50	87

Average of 2.128 to 2.140 min.: 2p59400.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
113.80	445	123.95	995	133.00	273	141.70	322
115.00	413	124.95	1149	133.60	96	141.95	1052
115.90	1506	126.10	215	134.00	364	142.20	629
117.00	14416	127.00	66677	134.85	1894	142.50	166
117.95	1240	128.05	4942	135.70	172	142.95	665
119.00	81	128.95	26797	135.95	429	143.85	375
119.70	143	129.95	2056	136.20	164	145.10	229
120.00	109	130.60	226	137.05	1358	145.90	522
121.90	1193	130.90	719	138.80	334	147.00	1698
122.30	221	132.10	280	139.95	219	147.95	2504
123.00	1645	132.70	192	140.90	3327	149.00	1081

Average of 2.128 to 2.140 min.: 2p59400.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
150.40	163	157.10	306	164.80	145	172.05	722
150.60	158	157.60	88	165.00	574	172.70	113
150.95	197	157.85	379	165.50	171	173.15	692
151.20	230	158.10	264	166.05	175	173.95	1637
151.90	510	158.90	441	167.00	5337	174.95	2008
152.20	100	160.05	1123	167.95	1997	175.80	125
153.00	1032	160.90	662	168.60	203	176.00	174
153.95	721	161.10	651	169.00	351	176.20	124
155.10	1289	161.90	379	170.00	93	176.85	1160
156.10	2221	162.20	408	170.90	382	177.80	552
156.80	158	163.80	550	171.80	219	178.20	215

Average of 2.128 to 2.140 min.: 2p59400.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
178.95	4751	188.15	724	195.70	442	203.05	952
180.00	3128	188.85	1242	196.00	3339	204.05	4714
180.80	546	189.90	460	196.70	309	204.90	4140
181.00	712	190.90	328	198.00	125179	205.10	4224

182.60	90	191.10	510	199.00	7713	206.00	31129
183.00	120	191.90	1611	199.90	420	207.00	4203
183.80	185	192.85	1026	200.15	845	207.90	834
185.00	2286	193.10	1829	201.20	250	209.50	142
186.10	17104	193.90	283	201.40	172	209.70	128
187.00	5160	194.60	247	201.90	262	210.20	156
187.90	269	195.10	151	202.80	224	210.60	114

Average of 2.128 to 2.140 min.: 2p59400.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
210.85	1027	217.90	964	226.05	516	236.95	600
211.20	96	218.60	85	227.00	6765	237.95	305
211.60	696	219.15	225	227.85	462	238.30	184
212.00	234	220.10	147	228.30	468	238.60	166
213.05	354	221.00	6125	229.05	1613	238.90	321
214.30	126	221.60	1083	230.75	449	239.20	85
214.60	122	222.10	1221	231.00	108	239.80	166
215.00	292	222.85	1099	233.80	245	240.95	588
215.90	658	223.10	1345	234.10	188	241.30	173
216.20	312	224.00	15924	234.95	763	241.90	772
217.05	7665	225.00	4831	235.95	793	242.15	549

Average of 2.128 to 2.140 min.: 2p59400.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
243.00	412	252.15	268	264.30	119	274.05	4728
243.30	691	253.00	475	264.95	687	275.00	24675
244.05	12754	253.95	1151	265.20	434	275.95	2869
245.00	1934	255.00	65664	265.95	440	277.00	2177
245.70	367	256.00	8645	266.90	303	277.80	248
246.05	2666	256.80	833	269.45	241	278.00	218
246.90	1145	257.20	382	270.85	268	280.30	94
248.90	518	258.00	3185	271.45	354	281.00	91
249.10	89	258.95	997	272.00	313	282.70	455
251.00	104	261.00	217	272.80	1278	284.05	352
251.70	91	263.95	306	273.05	727	284.85	484

Average of 2.128 to 2.140 min.: 2p59400.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
285.20	330	302.00	112	322.20	117	334.00	1660
289.90	125	302.95	1216	322.50	109	339.80	122
291.90	211	303.85	250	323.00	2676	341.00	545
292.90	438	304.30	139	323.90	694	345.95	737
293.20	94	311.50	84	324.95	371	346.20	177
293.80	156	314.00	227	326.95	485	347.00	123
294.70	152	314.70	228	328.20	96	350.50	107
296.00	7791	315.10	376	328.90	170	351.60	129
297.00	1313	315.40	254	331.20	110	351.80	210
299.10	94	315.90	290	331.95	376	352.05	328
300.50	108	321.10	203	332.80	245	352.95	675

Average of 2.128 to 2.140 min.: 2p59400.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
353.80	420	365.90	339	390.90	88	422.90	202
354.05	471	366.20	282	392.80	84	423.05	3227
355.00	85	369.70	89	393.70	111	423.90	702
355.20	139	370.85	477	401.90	393	425.10	328
355.60	124	372.00	1900	402.75	321	434.10	206
357.80	150	373.25	277	403.00	165	441.00	12889
358.80	169	377.40	149	404.05	284	442.00	75395
362.20	85	383.00	270	408.10	87	443.00	15682
362.70	113	385.70	139	411.00	114	444.00	1093
364.80	1458	386.30	102	421.00	609	444.30	288
365.00	1840	389.80	132	421.95	424	457.80	104

Average of 2.128 to 2.140 min.: 2p59400.D\data.ms

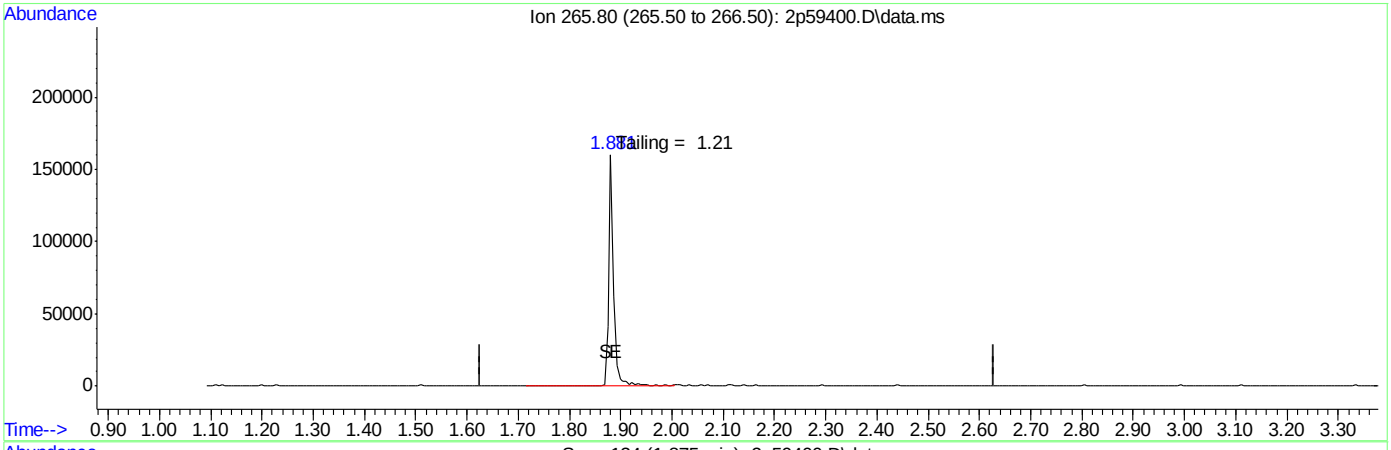
dftpp
Modified:subtracted

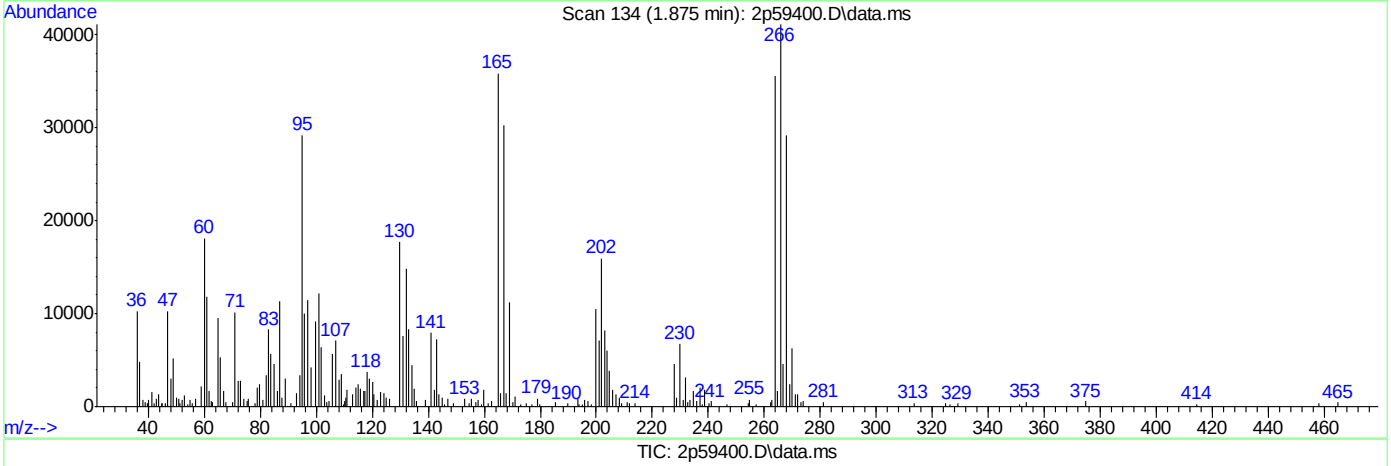
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
460.50	97						
462.60	106						
476.50	166						
486.70	93						
501.60	92						
505.30	84						
511.90	92						
541.30	98						
544.00	188						
545.30	196						
547.40	129						

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P2594\
Data File : 2p59400.D
Acq On : 20 May 2016 6:56 pm
Operator : seanb1
Sample : dftpp
Misc : op94078,e2p2594
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 20 19:00:22 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP2P.M
Quant Title :
QLast Update : Tue Aug 11 08:57:54 2015
Response via : Initial Calibration





TIC: 2p59400.D\data.ms

(1) Pentacholorphenol

2.128min (-2.128) 0.00ppb

response 0

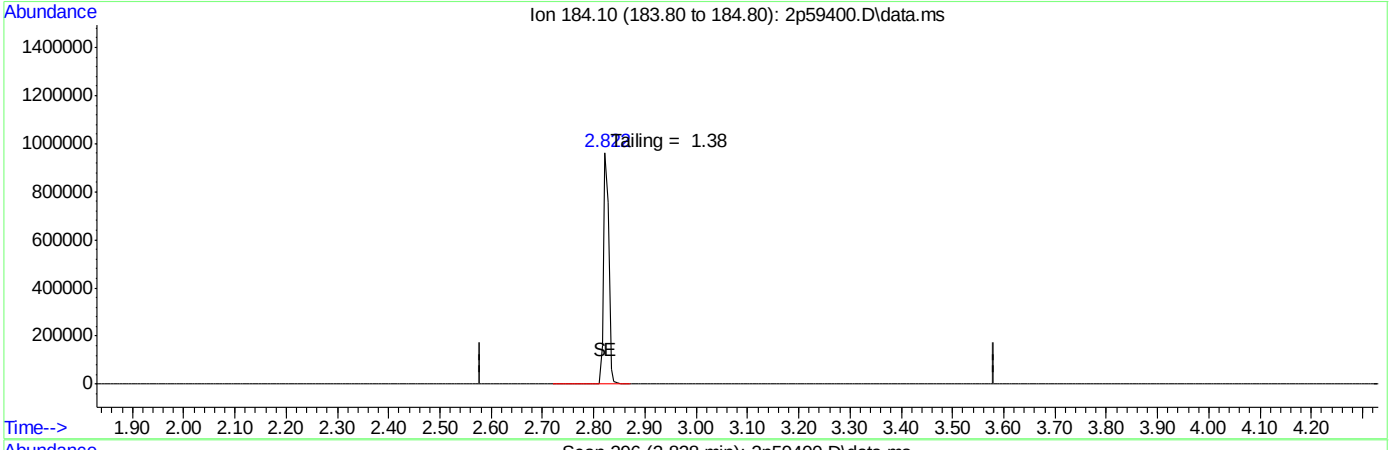
Ion	Exp%	Act%
265.80	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

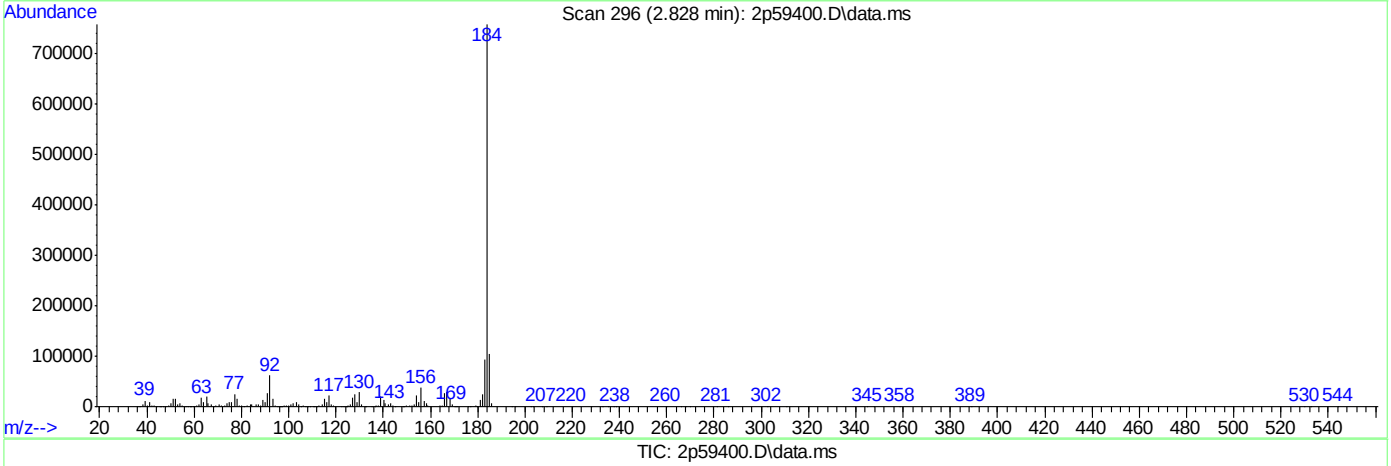
SGS ACCUTEST JC20098

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P2594\
Data File : 2p59400.D
Acq On : 20 May 2016 6:56 pm
Operator : seanb1
Sample : dftpp
Misc : op94078,e2p2594
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 20 19:00:22 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP2P.M
Quant Title :
QLast Update : Tue Aug 11 08:57:54 2015
Response via : Initial Calibration





TIC: 2p59400.D\data.ms

(2) Benzidine

3.081min (-3.081) 0.00ppb

response 0

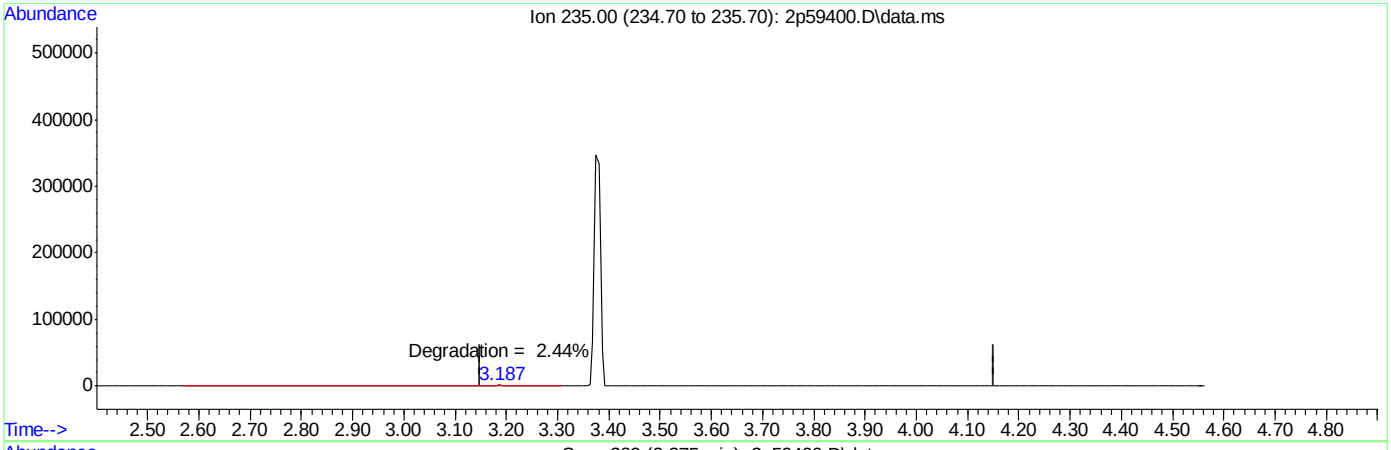
Ion	Exp%	Act%
184.10	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

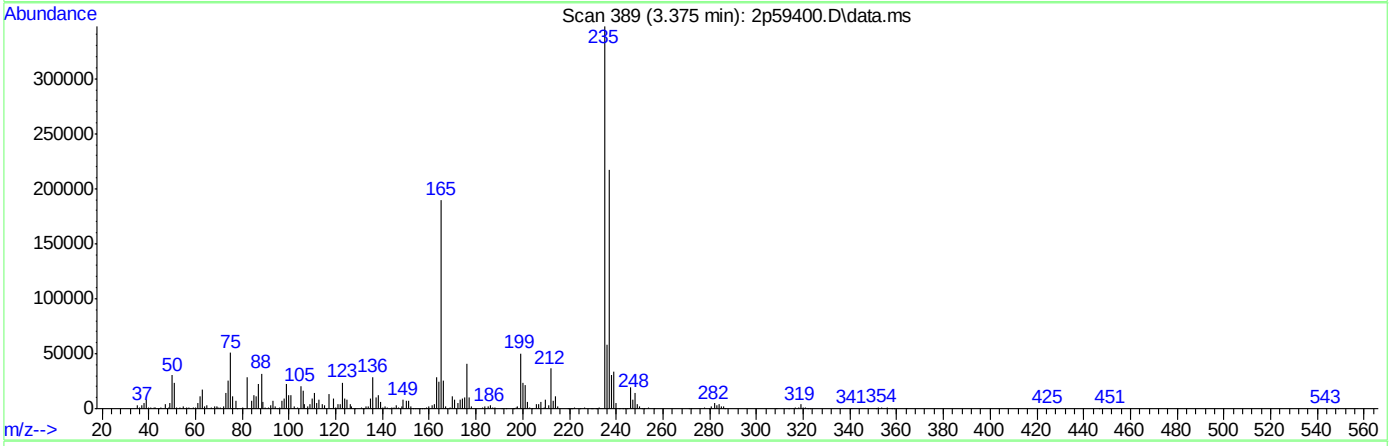
SGS ACCUTEST JC20098

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P2594\
Data File : 2p59400.D
Acq On : 20 May 2016 6:56 pm
Operator : seanb1
Sample : dftpp
Misc : op94078,e2p2594
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 20 19:00:22 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP2P.M
Quant Title :
QLast Update : Tue Aug 11 08:57:54 2015
Response via : Initial Calibration





TIC: 2p59400.D\data.ms

(3) PP-DDT

3.651min (-3.651) 0.00ppb

response 0

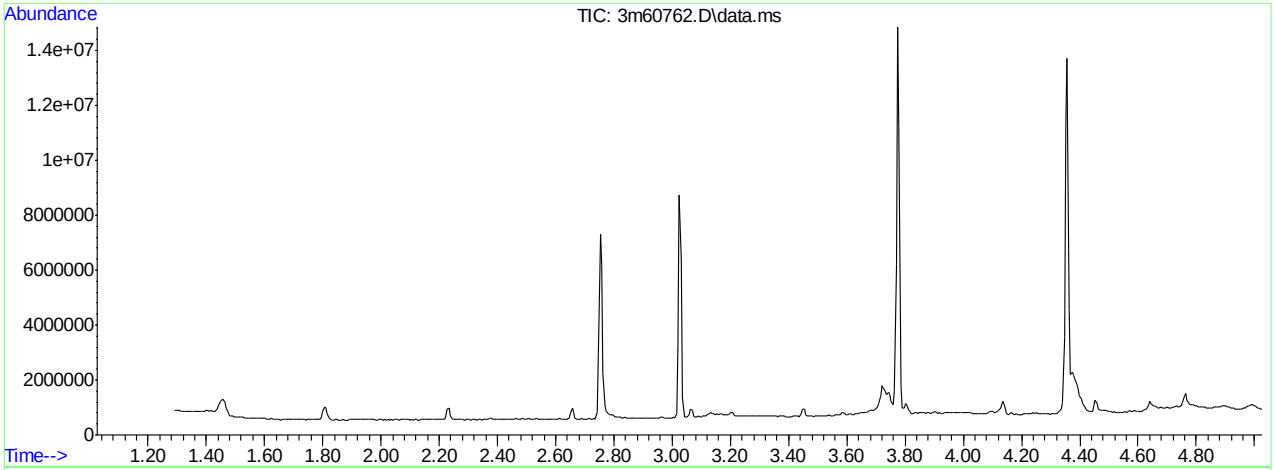
Ion	Exp%	Act%
235.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

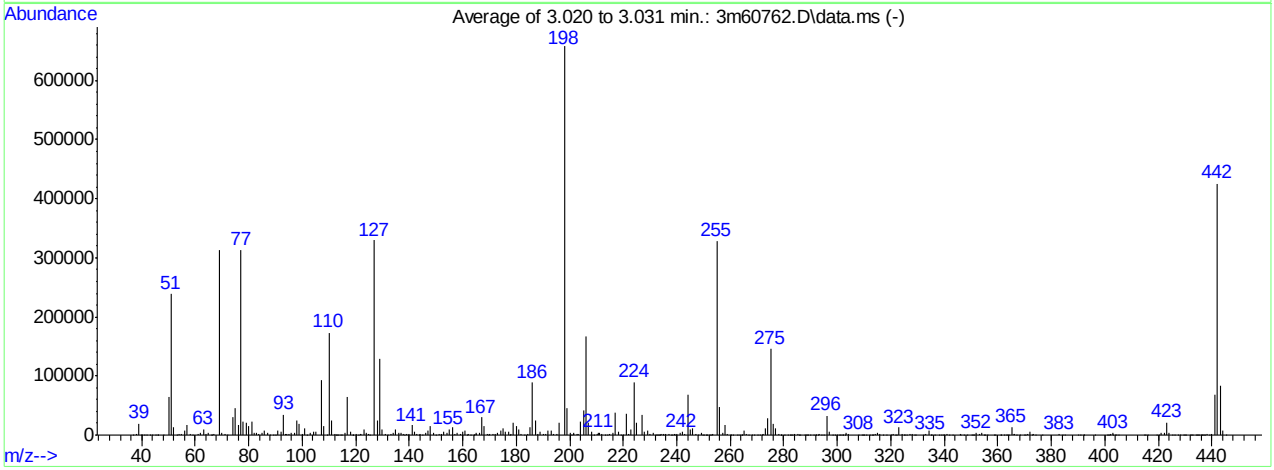
SGS ACCUTEST JC20098

DFTPP

Data File : C:\msdchem\1\DATA\E3M2855\3m60762.D Vial: 1
Acq On : 21 Apr 2016 1:31 pm Operator: linseyk
Sample : dftpp Inst : MS3M
Misc : op93052a,e3m2855 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\DFTPP3M.M (RTE Integrator)
Title : DFTPP, RXI-5MS 30m x .25mm x .25um





AutoFind: Scans 324, 325, 326; Background Corrected with Scan 320

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	36.2	238296	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	47.6	313116	PASS
70	69	0.00	2	1.0	3204	PASS
127	198	40	60	50.1	329840	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	657712	PASS
199	198	5	9	6.9	45100	PASS
275	198	10	30	22.1	145467	PASS
365	198	1	100	2.2	14264	PASS
441	443	0.10	100	81.8	68134	PASS
442	198	40	100	64.7	425304	PASS
443	442	17	23	19.6	83298	PASS

3m60762.D DFTPP3M.M Fri Apr 22 08:16:22 2016 RPT1

Average of 3.020 to 3.031 min.: 3m60762.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
37.00	661	46.20	436	58.95	251	71.05	1475
38.05	2794	48.00	244	61.00	2709	72.05	358
39.00	19760	50.00	65143	62.10	4250	74.05	29550
39.90	449	51.00	238296	63.00	10102	75.00	46243
40.00	755	52.00	12545	64.10	1997	76.10	17126
41.00	329	53.00	307	65.00	4739	77.05	313473
42.00	277	54.15	1115	65.95	419	78.00	22267
43.05	106	55.00	1105	66.20	319	79.00	21188
44.00	839	56.00	7453	66.95	1508	79.95	15917
45.10	137	57.00	17977	69.00	313116	81.00	21946
45.90	229	58.00	1593	70.05	3204	81.95	3804

Average of 3.020 to 3.031 min.: 3m60762.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
82.95	3997	93.95	1295	104.05	6580	114.10	398
83.90	2325	94.20	1080	105.00	6653	114.80	426
85.10	3907	95.00	1155	107.00	92226	116.00	4552
85.95	7333	95.95	2921	108.00	15158	117.00	65517
87.05	3225	97.15	3059	109.10	399	117.95	5021
87.95	160	98.00	25203	110.00	173137	118.85	1004
89.00	451	99.00	19270	111.00	25260	119.10	235
90.05	395	100.00	1366	112.05	2622	120.05	1481
90.95	6840	100.95	10715	112.70	729	120.85	926
92.00	6037	101.90	978	113.00	737	121.85	2893
93.00	35134	102.95	4167	113.60	216	122.05	1962

Average of 3.020 to 3.031 min.: 3m60762.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
123.00	8863	134.05	4029	143.80	49	154.05	4207
124.00	3789	134.95	9126	144.15	1336	154.95	9598
124.90	2681	136.00	4526	144.90	554	156.05	12971
125.20	659	137.05	4746	146.00	3191	157.05	2135
127.00	329840	137.80	1581	147.00	6974	158.00	2979
127.95	25688	138.05	8	147.95	15969	159.05	1815
129.00	128464	139.15	1213	149.00	3586	160.00	5213
129.95	10423	140.05	2181	149.90	649	160.90	6930
131.00	2043	141.00	16241	151.05	2905	161.80	620
131.90	739	142.05	4918	151.90	1498	162.10	1571
133.10	1078	142.95	2672	152.95	5232	162.90	286

Average of 3.020 to 3.031 min.: 3m60762.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
164.00	491	171.95	2596	181.95	1754	193.00	6861
164.10	623	173.05	4093	182.90	780	194.05	2190
164.80	1232	174.05	6735	184.10	2113	195.05	1948
165.00	4676	175.05	10999	185.00	13065	196.00	21652
166.05	4746	176.05	4833	186.00	88408	198.00	657712
166.95	29813	176.95	6189	187.05	24010	199.00	45100
167.95	14663	177.70	742	188.10	2813	200.00	3024
169.05	2335	178.00	1490	188.90	5044	200.70	236
169.70	466	179.00	21463	190.05	1319	201.35	3553
170.15	1305	180.00	14698	191.00	2618	201.65	2514
171.10	1248	181.00	9205	191.95	7793	202.80	1702

Average of 3.020 to 3.031 min.: 3m60762.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
203.00	2781	213.05	528	224.10	89368	233.80	461
204.10	23086	214.00	433	225.05	21868	234.10	1557
205.10	41149	215.05	1578	227.05	34358	234.80	391
206.05	167835	216.05	4006	228.00	4859	235.05	2665

207.00	21445	217.00	38342	229.00	6933	235.95	2072
208.00	6458	218.05	5162	229.85	1303	237.05	2533
209.00	896	219.20	990	231.00	3173	237.90	238
210.15	1189	220.00	429	231.90	223	238.15	279
210.75	4358	221.05	36080	232.30	136	238.95	1672
211.10	3392	221.80	1095	232.90	149	239.30	482
211.85	2397	223.00	9572	233.10	789	240.10	1273

Average of 3.020 to 3.031 min.: 3m60762.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
241.05	3311	250.80	152	259.90	493	269.00	206
242.05	4890	251.15	707	260.20	97	270.05	831
243.10	2235	251.95	870	261.00	468	271.05	922
244.10	68677	252.40	139	262.60	86	271.70	207
245.05	9760	252.90	981	263.25	515	272.10	1838
246.00	12142	253.40	1728	264.10	501	273.05	11001
247.00	2344	255.05	329205	264.30	560	274.05	29108
248.00	837	256.00	47298	265.00	7222	275.10	145467
249.05	3015	257.15	4289	265.90	1481	276.05	18900
249.80	449	258.00	17582	266.75	355	277.00	11300
250.25	600	259.00	2516	268.20	147	278.00	1854

Average of 3.020 to 3.031 min.: 3m60762.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
278.80	205	287.70	119	294.70	95	303.10	3964
279.15	477	288.15	310	296.05	32985	304.05	1309
280.10	279	288.60	87	297.00	5136	307.90	846
281.60	120	289.15	281	298.10	167	309.00	398
282.10	626	289.95	519	298.90	166	309.70	112
282.90	419	291.10	296	300.00	85	310.15	371
283.10	836	291.80	318	300.90	148	310.95	354
284.15	1540	292.10	662	301.15	590	312.00	87
285.15	2843	292.80	196	301.80	536	312.80	156
285.80	310	293.05	2426	302.10	353	313.10	231
286.10	133	294.10	917	302.80	384	313.95	1898

Average of 3.020 to 3.031 min.: 3m60762.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
315.00	3718	325.20	137	336.25	305	348.30	141
316.00	2484	325.95	441	338.10	80	350.05	338
317.05	541	327.05	2247	339.00	94	350.60	76
318.20	109	328.00	1248	339.70	149	351.10	136
320.15	285	328.80	179	339.90	100	352.05	3729
321.00	1507	329.20	147	341.00	1301	353.10	2441
321.70	413	332.05	947	341.95	432	354.00	4692
322.00	251	332.95	1265	343.20	134	354.95	265
323.10	12425	334.10	8059	345.90	234	355.20	159
324.15	2124	334.90	772	346.05	2044	356.15	415
324.90	281	335.10	980	347.05	266	358.40	195

Average of 3.020 to 3.031 min.: 3m60762.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
359.10	253	368.00	93	385.05	288	403.05	3094
360.90	94	369.90	367	390.05	558	403.80	336
361.25	176	370.40	117	391.00	594	404.05	985
362.50	298	371.05	1415	391.90	84	405.05	371
363.10	278	372.10	6694	392.20	500	414.80	78
363.40	159	372.90	577	396.30	97	415.10	95
364.00	309	373.10	1038	400.75	279	416.00	104
365.05	14264	374.00	194	401.20	249	419.25	304
365.90	1395	376.70	189	401.90	271	420.30	329
366.10	1077	382.95	1487	402.05	2235	421.05	4050
366.90	270	384.00	498	402.80	202	422.15	3505

Average of 3.020 to 3.031 min.: 3m60762.D\data.ms

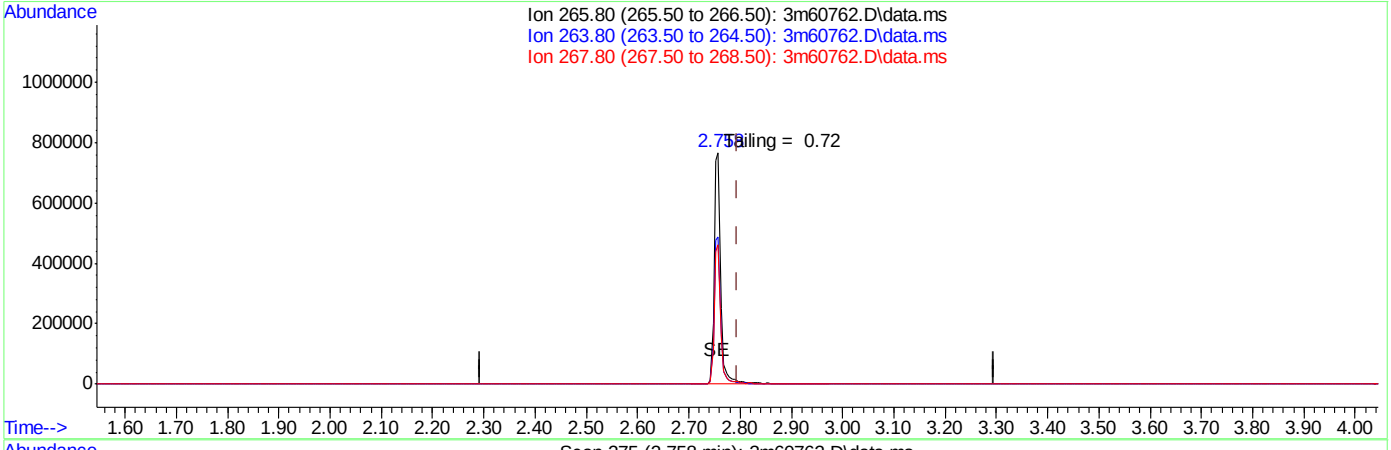
dftpp
Modified:subtracted

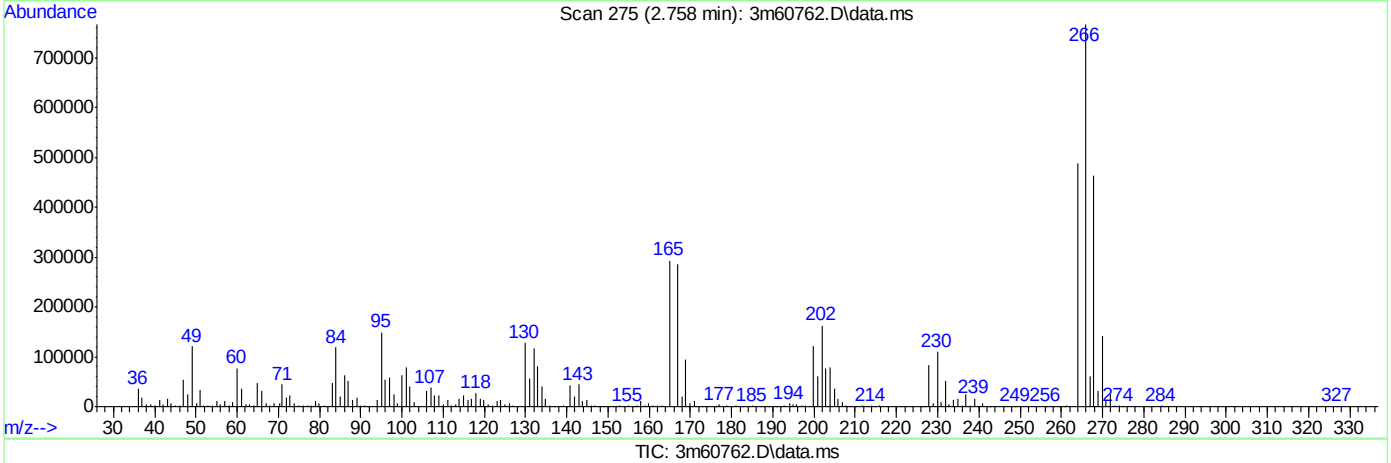
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
423.10	21736	432.90	494	438.80	912		
424.10	4461	433.85	400	439.90	2031		
425.00	512	434.50	189	441.10	68134		
426.10	183	434.80	226	442.10	425304		
427.20	203	435.40	731	443.10	83298		
428.30	259	435.90	455	444.10	7637		
429.50	82	436.25	476	445.10	306		
429.70	297	436.60	319				
430.25	389	436.95	928				
431.75	392	437.50	435				
432.50	347	438.30	1141				

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60762.D
Acq On : 21 Apr 2016 1:31 pm
Operator : linseyk
Sample : dftpp
Misc : op93052a,e3m2855
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 21 13:36:04 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3M.M
Quant Title : DFTPP, RXI-5MS 30m x .25mm x .25um
QLast Update : Wed Dec 09 10:32:40 2015
Response via : Initial Calibration





(1) Pentachlorophenol (t)

2.758min (-0.037) 190.28ppb

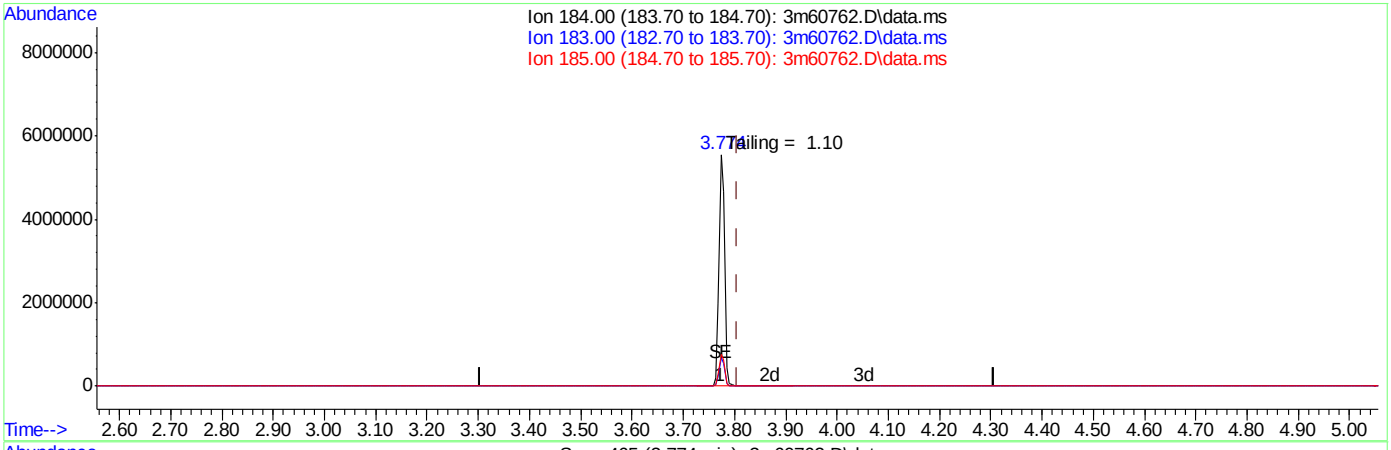
response 701808

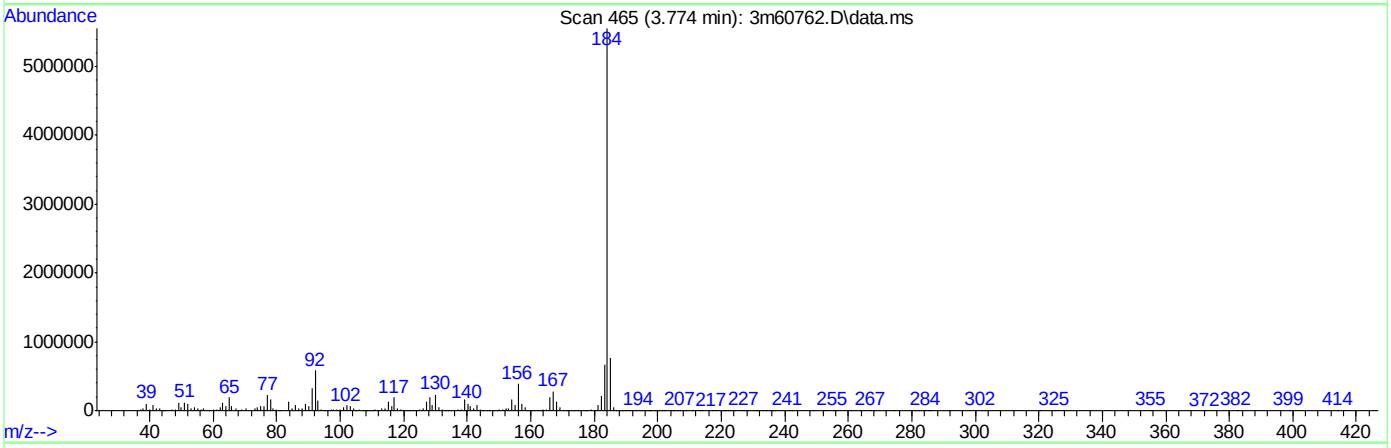
Ion	Exp%	Act%
265.80	100	100
263.80	62.80	63.64
267.80	64.10	60.34
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60762.D
Acq On : 21 Apr 2016 1:31 pm
Operator : linseyk
Sample : dftpp
Misc : op93052a,e3m2855
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 21 13:36:04 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3M.M
Quant Title : DFTPP, RXI-5MS 30m x .25mm x .25um
QLast Update : Wed Dec 09 10:32:40 2015
Response via : Initial Calibration





TIC: 3m60762.D\data.ms

(2) Benzidine (t)

3.774min (-0.032) 229.17ppb

response 4170192

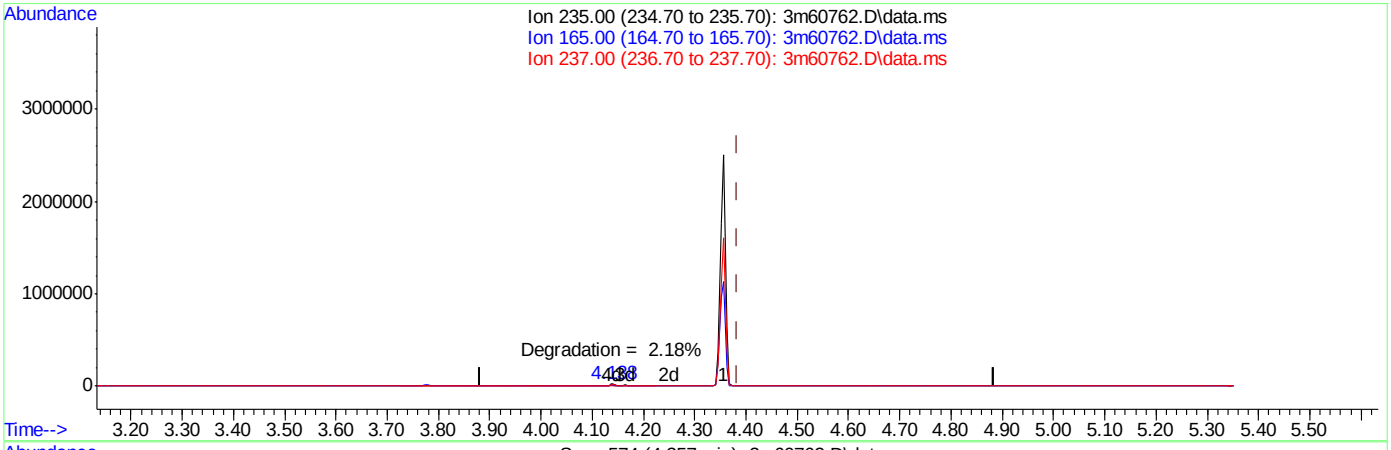
Ion	Exp%	Act%
184.00	100	100
183.00	11.50	12.07
185.00	14.40	13.67
0.00	0.00	0.00

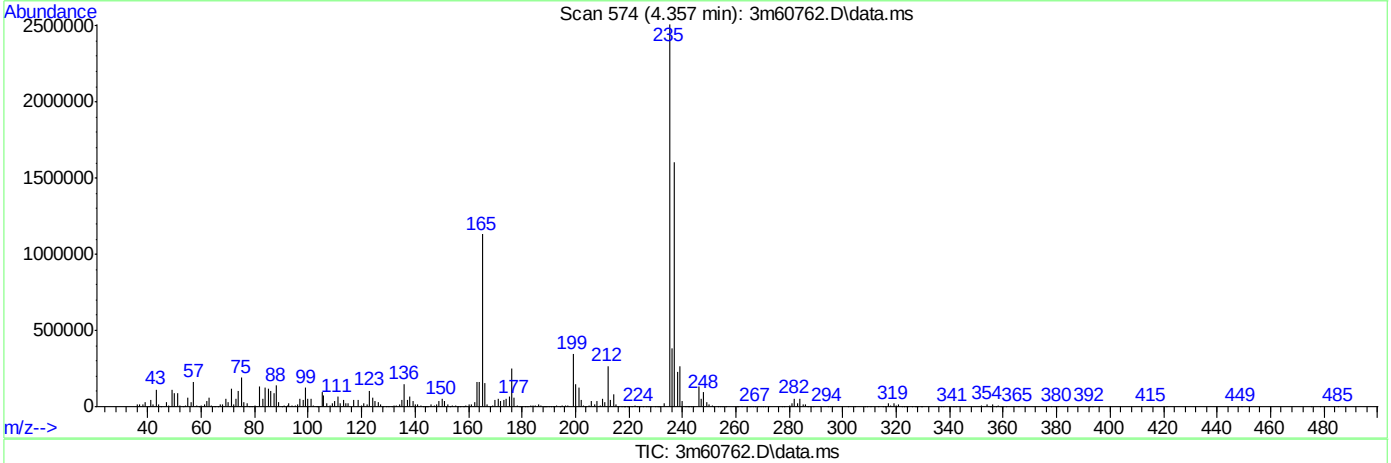
SGS ACCUTEST JC20098

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60762.D
Acq On : 21 Apr 2016 1:31 pm
Operator : linseyk
Sample : dftpp
Misc : op93052a,e3m2855
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 21 13:36:04 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3M.M
Quant Title : DFTPP, RXI-5MS 30m x .25mm x .25um
QLast Update : Wed Dec 09 10:32:40 2015
Response via : Initial Calibration





TIC: 3m60762.D\data.ms

(3) PP-DDT (t)

4.357min (-0.027) 229.70ppb

response 1710972

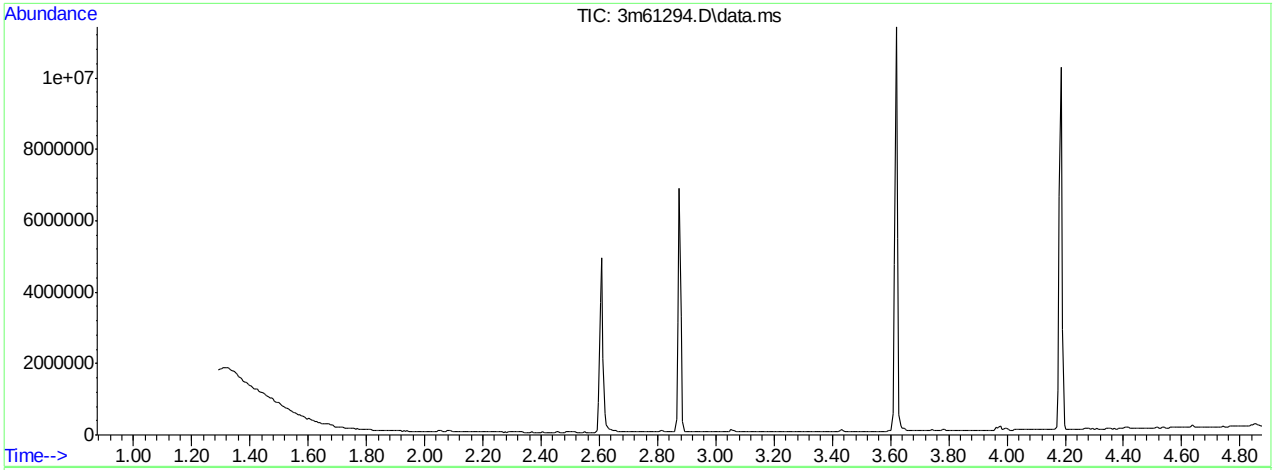
Ion	Exp%	Act%
235.00	100	100
165.00	0.00	48.45#
237.00	0.00	63.48#
0.00	0.00	0.00

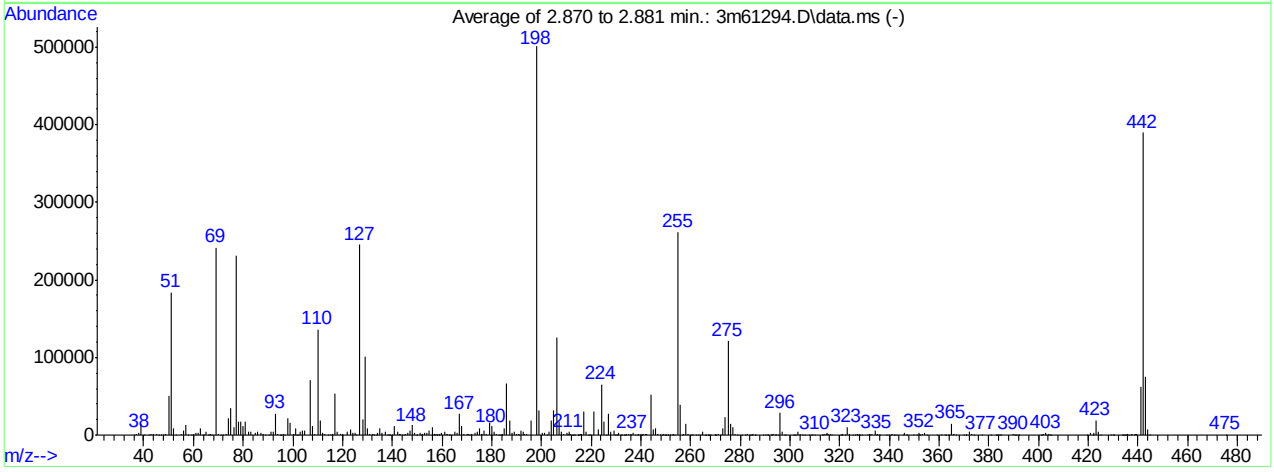
SGS ACCUTEST JC20098

DFTPP

Data File : C:\msdchem\1\DATA\E3M2882\3m61294.D Vial: 1
Acq On : 13 May 2016 10:17 am Operator: ashleyd
Sample : dftpp Inst : MS3M
Misc : op93756a,e3m2882 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\DFTPP3M.M (RTE Integrator)
Title : DFTPP, RXI-5MS 30m x .25mm x .25um





AutoFind: Scans 296, 297, 298; Background Corrected with Scan 290

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	36.7	183687	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	48.3	241816	PASS
70	69	0.00	2	0.5	1121	PASS
127	198	40	60	49.0	245383	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	500971	PASS
199	198	5	9	6.5	32535	PASS
275	198	10	30	24.2	121152	PASS
365	198	1	100	2.9	14632	PASS
441	443	0.10	100	82.4	62225	PASS
442	198	40	100	77.8	389520	PASS
443	442	17	23	19.4	75501	PASS

3m61294.D DFTPP3M.M Fri May 13 14:15:12 2016 RPT1

Average of 2.870 to 2.881 min.: 3m61294.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.95	643	48.00	435	59.95	839	68.95	241816
37.05	1558	49.00	1940	61.00	2714	69.90	1121
38.00	3316	50.00	51217	62.10	2846	70.95	534
39.05	14893	51.00	183687	63.00	8620	71.90	306
40.10	361	52.00	8700	63.90	486	73.00	1435
42.05	566	52.80	462	64.20	607	74.05	22148
43.00	904	55.00	1389	65.00	3813	75.00	34750
43.85	1483	56.00	5625	66.00	397	76.10	10042
45.05	827	56.95	13104	66.20	138	77.00	231934
45.90	204	58.00	380	67.00	785	78.05	17371
47.00	103	58.95	502	67.30	433	79.00	16741

Average of 2.870 to 2.881 min.: 3m61294.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
80.00	11658	92.10	4700	101.00	9111	111.90	2382
81.00	16915	93.00	27595	101.70	123	112.90	968
82.00	4075	94.00	2082	102.10	651	114.35	427
82.95	4187	94.90	385	102.95	4224	115.10	502
85.05	3679	95.10	267	104.05	6058	115.95	2159
85.85	4241	96.05	1861	104.90	5653	116.95	53054
87.00	2650	96.80	168	106.95	71410	118.00	3781
87.85	954	98.00	21215	108.05	11025	119.10	790
88.95	708	98.95	15708	108.80	768	119.90	1064
90.20	102	100.00	916	110.00	136541	122.05	4554
91.00	3982	100.20	721	111.05	18956	123.00	7030

Average of 2.870 to 2.881 min.: 3m61294.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
124.05	3258	133.60	480	142.90	1539	151.15	2295
125.00	3625	134.00	2696	143.10	1208	151.70	390
125.70	301	134.95	8215	144.05	636	152.10	1512
127.00	245383	136.00	3227	144.90	323	152.95	3485
128.00	20665	137.05	4393	145.25	924	153.95	3421
129.00	101088	138.00	598	146.10	2561	155.00	6109
130.00	8842	138.40	464	146.95	6008	156.05	9559
130.85	1372	139.00	732	147.95	12558	156.80	546
131.80	284	139.90	269	149.00	2599	156.90	458
132.10	892	141.00	11573	149.70	357	157.05	1612
132.60	303	141.95	3966	149.95	491	157.80	697

Average of 2.870 to 2.881 min.: 3m61294.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
158.00	1958	165.95	3350	176.00	1577	184.20	366
158.80	389	167.00	27371	176.20	1806	185.05	9226
159.00	1439	168.05	11162	176.90	5188	186.05	66277
159.85	3568	168.80	1557	177.95	2014	187.05	18772
161.10	5036	170.10	903	178.95	16367	188.10	2517
161.90	1746	170.80	963	180.05	11110	189.00	4472
162.20	1111	171.20	202	181.00	4660	190.15	1214
162.80	78	172.00	2146	181.95	1143	190.80	532
163.10	757	173.15	2773	182.80	529	190.90	921
163.75	363	174.05	4950	183.20	472	191.90	5135
165.00	3690	175.05	8826	183.95	1319	192.90	4031

Average of 2.870 to 2.881 min.: 3m61294.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
193.10	847	206.05	126152	213.60	143	221.00	29784
194.10	1987	207.05	17420	214.75	654	223.05	7034
196.00	18534	208.05	3862	215.00	317	224.05	65637
198.00	500971	209.00	1181	215.30	517	225.00	17183

199.00	32535	210.20	2690	215.70	783	226.10	373
200.15	2791	210.80	1471	216.10	805	227.05	27082
201.35	3144	211.05	4199	217.00	29821	228.00	4080
202.10	370	211.75	1144	218.00	4366	229.05	5404
203.10	4190	212.10	394	218.80	311	229.90	299
204.05	18145	212.60	74	219.10	233	230.10	197
205.05	31168	212.90	205	219.60	289	230.60	639

Average of 2.870 to 2.881 min.: 3m61294.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
231.05	2488	238.70	557	247.85	393	253.00	920
231.85	357	239.00	1064	248.80	666	253.40	453
232.60	83	239.90	955	249.05	1424	255.00	261888
233.10	531	240.40	199	249.50	181	256.00	38912
233.90	522	241.15	2040	249.80	511	256.90	570
234.10	1417	242.00	1768	250.10	246	257.10	997
234.95	2182	242.20	2040	250.80	196	258.00	14799
235.80	597	244.10	52115	251.00	689	259.15	1991
236.10	1119	245.05	7477	251.80	220	259.95	595
236.90	2349	246.05	8991	252.00	396	260.40	95
238.00	489	246.95	1770	252.80	355	261.00	433

Average of 2.870 to 2.881 min.: 3m61294.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
262.20	97	269.80	133	279.05	386	290.00	393
262.95	44	269.95	229	280.85	751	290.90	104
264.10	387	270.30	93	282.05	697	291.15	295
264.90	1036	270.95	985	282.95	1297	292.25	528
265.05	4597	271.90	637	283.85	623	292.90	274
265.80	56	273.15	8932	284.20	562	293.10	2134
266.10	152	274.05	23565	284.90	279	294.00	165
266.90	534	275.05	121152	285.15	1560	294.20	606
267.10	268	276.05	14683	285.90	74	295.10	722
267.50	220	277.05	9523	286.15	272	296.00	28813
267.90	595	278.05	1792	289.05	609	297.00	5072

Average of 2.870 to 2.881 min.: 3m61294.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
297.90	164	309.25	362	320.90	136	328.00	735
298.20	108	310.00	528	321.00	327	328.20	228
301.60	140	312.90	132	321.15	845	329.00	101
301.90	329	313.20	183	322.10	512	331.20	163
302.10	297	314.05	1857	323.05	10464	331.90	293
303.00	3963	314.90	1222	324.15	1922	332.15	811
304.10	1361	315.10	2594	325.15	263	333.05	1036
304.90	161	315.30	769	326.10	505	334.10	5872
305.70	89	316.10	1981	326.90	1084	334.80	179
307.90	668	316.90	419	327.10	641	335.05	1908
308.70	88	320.20	453	327.70	107	335.70	157

Average of 2.870 to 2.881 min.: 3m61294.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
336.20	194	347.10	283	362.10	83	372.00	4986
338.90	376	349.60	98	362.70	150	373.00	1424
339.80	158	350.90	457	363.70	259	374.10	136
340.80	104	351.70	165	364.10	393	377.15	230
341.05	1129	352.05	3047	365.00	14632	380.80	95
341.90	262	352.30	445	365.90	1110	382.90	190
342.20	172	353.10	2010	366.10	942	383.10	596
343.00	76	354.05	3401	367.00	117	383.30	434
345.80	242	355.05	436	370.05	360	384.00	340
346.00	2491	359.00	363	370.90	163	384.20	151
346.80	80	360.90	294	371.05	645	385.00	81

Average of 2.870 to 2.881 min.: 3m61294.D\data.ms

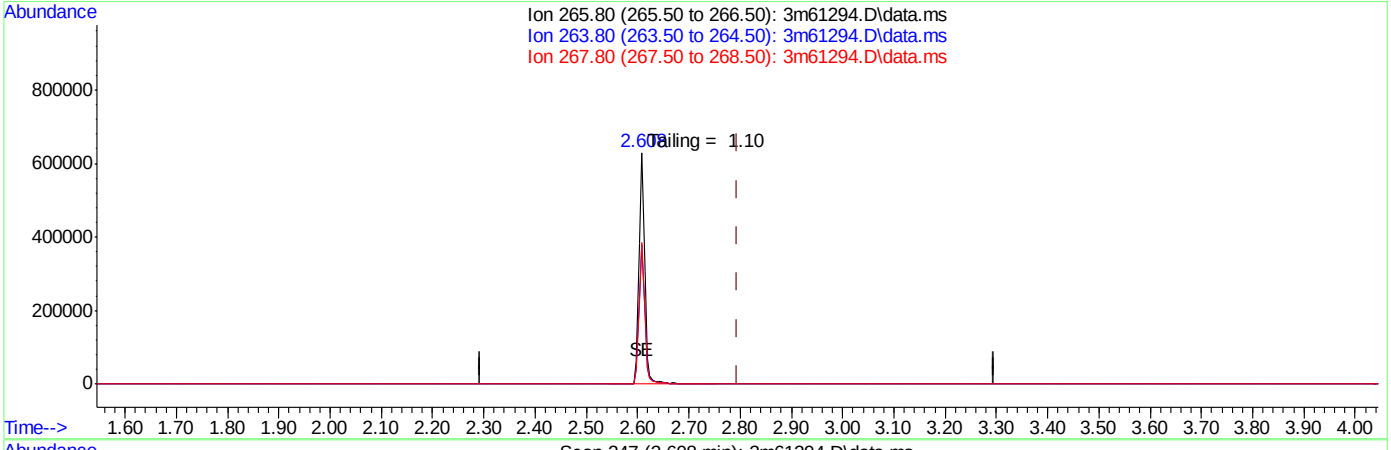
dftpp
Modified:subtracted

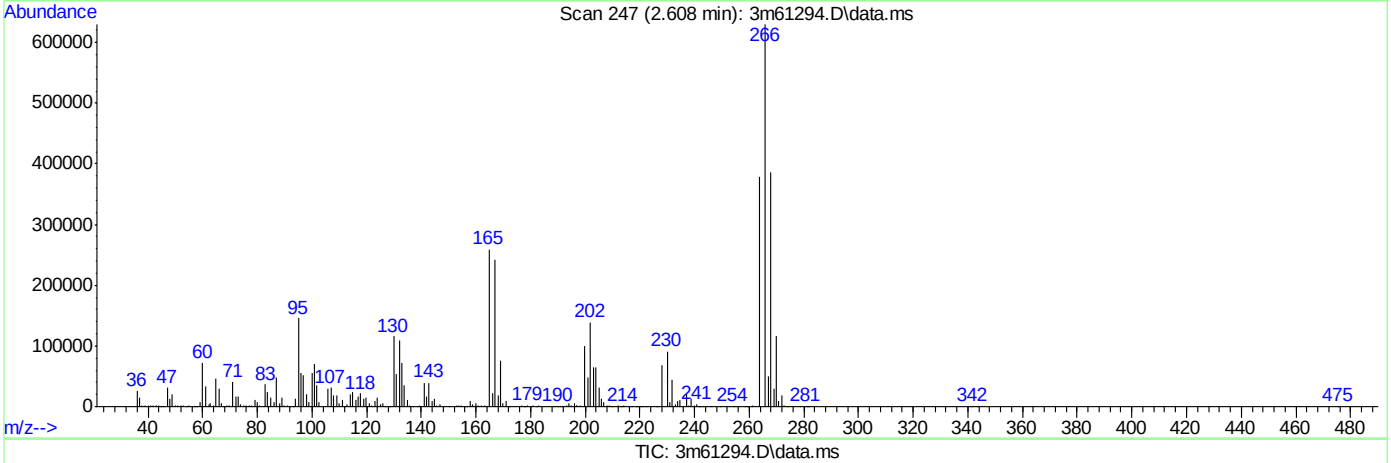
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
390.00	827	403.90	114	429.20	109	437.80	1320
390.30	406	404.15	1154	429.80	142	438.60	687
390.70	128	404.50	125	430.40	213	438.85	922
391.20	428	404.95	171	433.35	432	439.20	765
391.90	269	419.70	304	434.10	169	439.50	1324
392.10	219	421.10	3036	434.50	232	441.10	62225
401.10	401	421.90	271	435.10	522	442.10	389520
401.70	537	422.15	2767	435.50	388	443.10	75501
402.15	2186	423.10	19459	435.95	776	444.10	7383
402.90	321	424.05	4488	436.40	191	445.00	425
403.05	2781	425.00	525	436.95	538	475.30	74

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2882\
Data File : 3m61294.D
Acq On : 13 May 2016 10:17 am
Operator : ashleyd
Sample : dftpp
Misc : op93756a,e3m2882
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 13 10:21:57 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3M.M
Quant Title : DFTPP, RXI-5MS 30m x .25mm x .25um
QLast Update : Wed Dec 09 10:32:40 2015
Response via : Initial Calibration





TIC: 3m61294.D\data.ms

(1) Pentachlorophenol (t)

2.608min (-0.187) 134.24ppb

response 495104

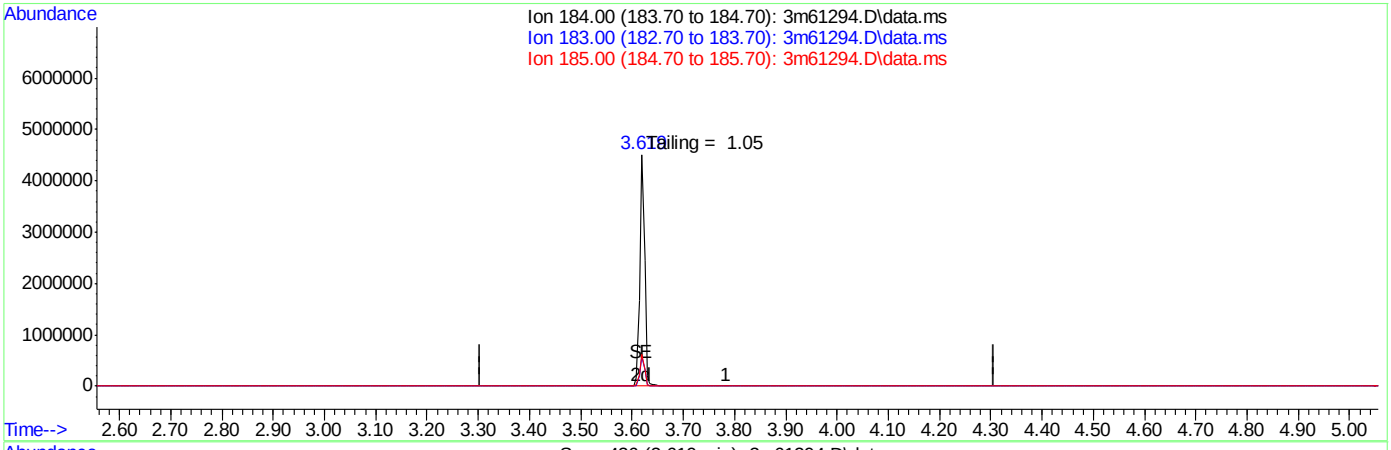
Ion	Exp%	Act%
265.80	100	100
263.80	62.80	60.10
267.80	64.10	61.31
0.00	0.00	0.00

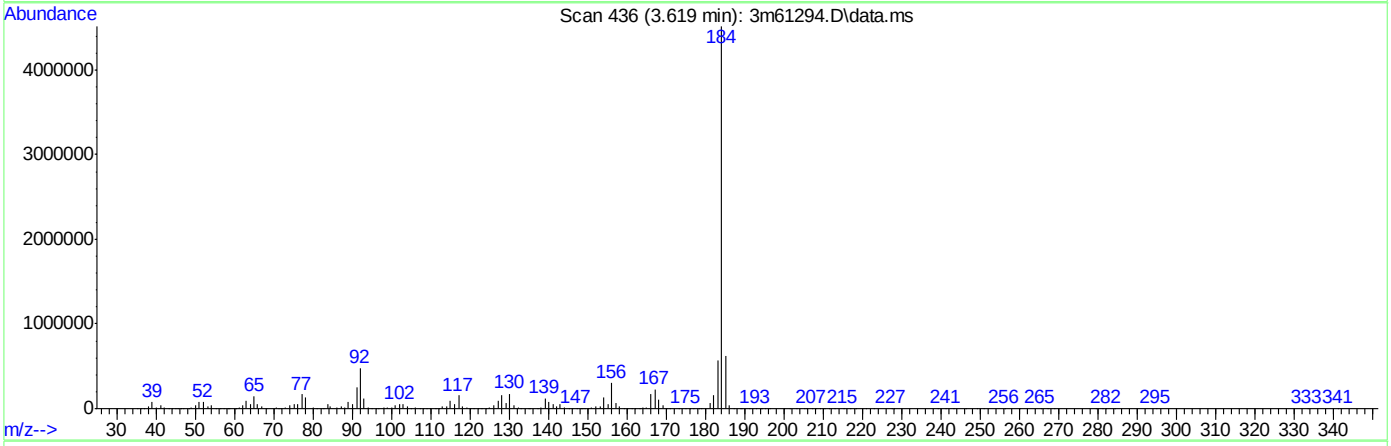
SGS ACCUTEST JC20098

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2882\
Data File : 3m61294.D
Acq On : 13 May 2016 10:17 am
Operator : ashleyd
Sample : dftpp
Misc : op93756a,e3m2882
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 13 10:21:57 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3M.M
Quant Title : DFTPP, RXI-5MS 30m x .25mm x .25um
QLast Update : Wed Dec 09 10:32:40 2015
Response via : Initial Calibration





TIC: 3m61294.D\data.ms

(2) Benzidine (t)

3.806min 0.00ppb d

response 0

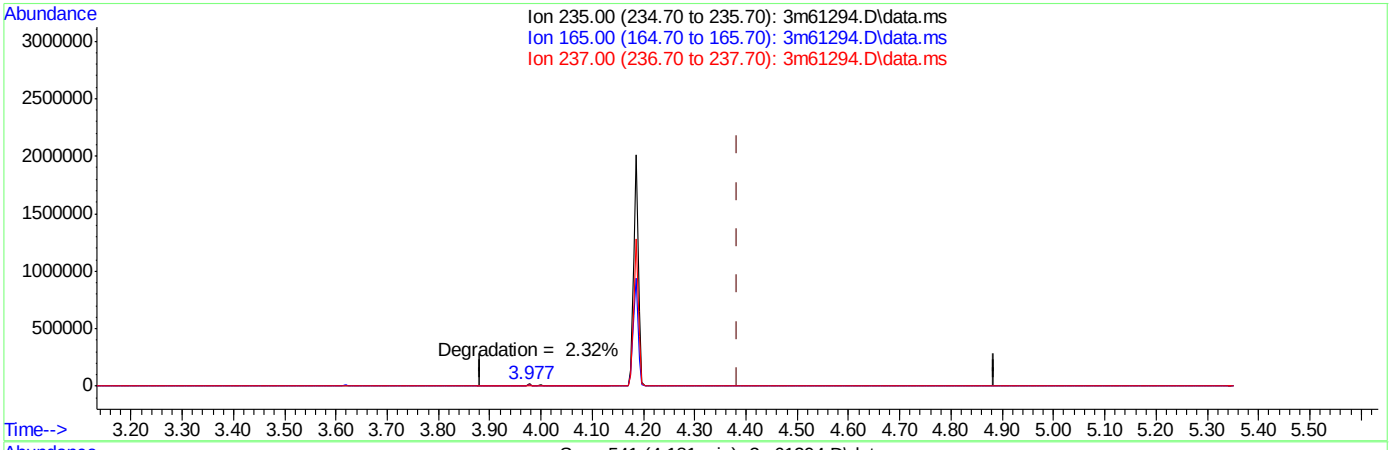
Ion	Exp%	Act%
184.00	100	0.00
183.00	11.50	0.00
185.00	14.40	0.00
0.00	0.00	0.00

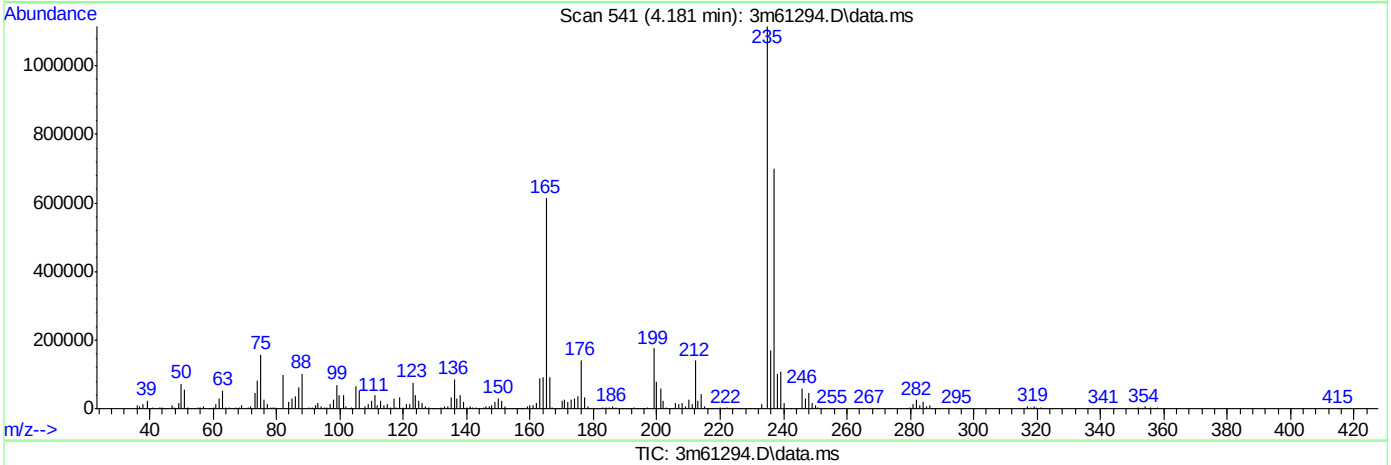
SGS ACCUTEST JC20098

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2882\
Data File : 3m61294.D
Acq On : 13 May 2016 10:17 am
Operator : ashleyd
Sample : dftpp
Misc : op93756a,e3m2882
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 13 10:21:57 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3M.M
Quant Title : DFTPP, RXI-5MS 30m x .25mm x .25um
QLast Update : Wed Dec 09 10:32:40 2015
Response via : Initial Calibration





TIC: 3m61294.D\data.ms

(3) PP-DDT (t)

4.186min (-0.198) 169.99ppb

response 1266216

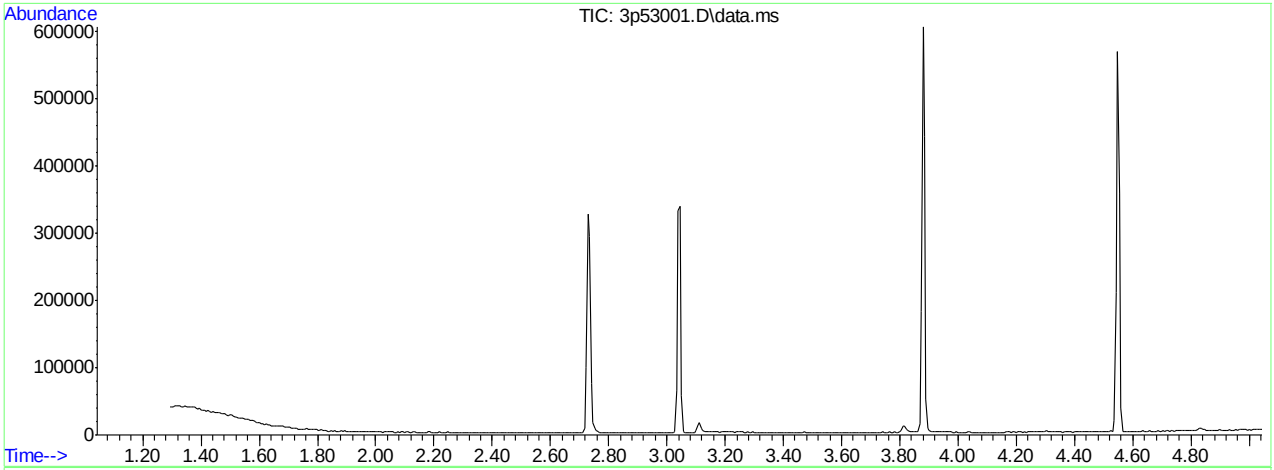
Ion	Exp%	Act%
235.00	100	100
165.00	0.00	47.90#
237.00	0.00	63.83#
0.00	0.00	0.00

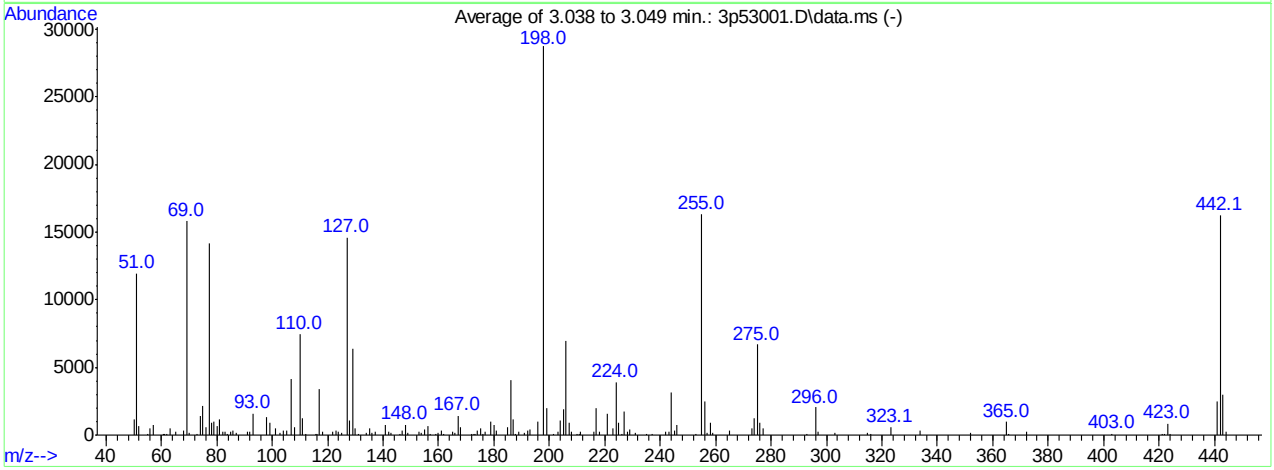
SGS ACCUTEST JC20098

DFTPP

Data File : C:\msdchem\1\data\E3P2413\3p53001.D Vial: 1
Acq On : 29 Apr 2016 9:08 am Operator: robertl1
Sample : dftpp Inst : MSGC3P
Misc : op93185,e3p2413 Multiplr: 1.00
MS Integration Params: events.e

Method : C:\MSDCHEM\1\METHODS\DFTPP3P.M (ChemStation Integrator)
Title : zebron ZB-5msi 30mx0.25mmx0.25um





AutoFind: Scans 306, 307, 308; Background Corrected with Scan 302

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	41.6	11934	PASS
68	69	0.00	2	1.9	295	PASS
69	198	0.00	100	55.1	15812	PASS
70	69	0.00	2	1.0	153	PASS
127	198	40	60	50.9	14603	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	28708	PASS
199	198	5	9	6.8	1966	PASS
275	198	10	30	23.4	6705	PASS
365	198	1	100	3.4	967	PASS
441	443	0.01	100	83.9	2477	PASS
442	198	40	100	56.6	16253	PASS
443	442	17	23	18.2	2953	PASS

3p53001.D DFTPP3P.M Fri Apr 29 09:18:18 2016

Average of 3.038 to 3.049 min.: 3p53001.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
50.00	1133	68.00	295	81.00	1170	99.00	942
51.05	11934	69.00	15812	82.00	259	101.00	527
52.00	641	70.00	153	83.05	284	102.90	202
55.00	113	73.00	85	83.90	104	103.95	348
55.90	507	74.00	1430	85.00	236	105.00	363
57.00	730	75.00	2162	85.95	297	107.00	4150
60.90	124	76.05	604	86.95	195	108.00	561
61.10	78	77.10	14152	91.00	267	110.00	7495
62.00	121	78.00	903	91.95	263	111.00	1224
63.00	508	79.00	969	93.00	1594	112.00	95
65.00	290	79.95	661	98.00	1330	115.90	110

Average of 3.038 to 3.049 min.: 3p53001.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
116.10	71	130.90	79	149.00	177	165.90	182
117.00	3391	133.95	161	152.95	253	167.00	1447
117.95	235	135.00	478	153.90	175	167.95	561
121.95	214	136.00	200	154.95	401	171.90	81
122.95	368	137.00	213	156.00	639	172.80	82
123.95	225	141.00	714	156.90	70	173.00	83
124.90	192	142.00	245	159.00	70	174.05	304
127.00	14603	142.85	144	159.85	201	175.00	517
128.00	1091	145.90	89	161.00	305	176.10	87
129.00	6389	146.95	326	162.00	87	176.95	218
130.00	511	148.00	749	164.90	277	178.95	1033

Average of 3.038 to 3.049 min.: 3p53001.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
180.00	752	198.00	28708	211.00	255	228.95	385
181.00	323	199.00	1966	216.00	213	231.00	151
185.00	604	201.40	83	217.00	1977	235.00	71
186.00	4037	203.00	235	218.00	228	237.00	68
187.00	1129	204.00	1114	221.00	1612	242.00	234
187.90	95	205.05	1885	223.00	467	243.00	264
188.95	245	206.05	6939	224.00	3928	244.10	3187
190.90	159	207.00	884	225.00	932	245.05	347
192.00	311	208.00	248	226.00	70	246.00	721
193.00	403	210.00	92	227.00	1756	252.90	69
196.00	1020	210.60	117	228.00	242	255.00	16327

Average of 3.038 to 3.049 min.: 3p53001.D\data.ms
dftpp
Modified:subtracted

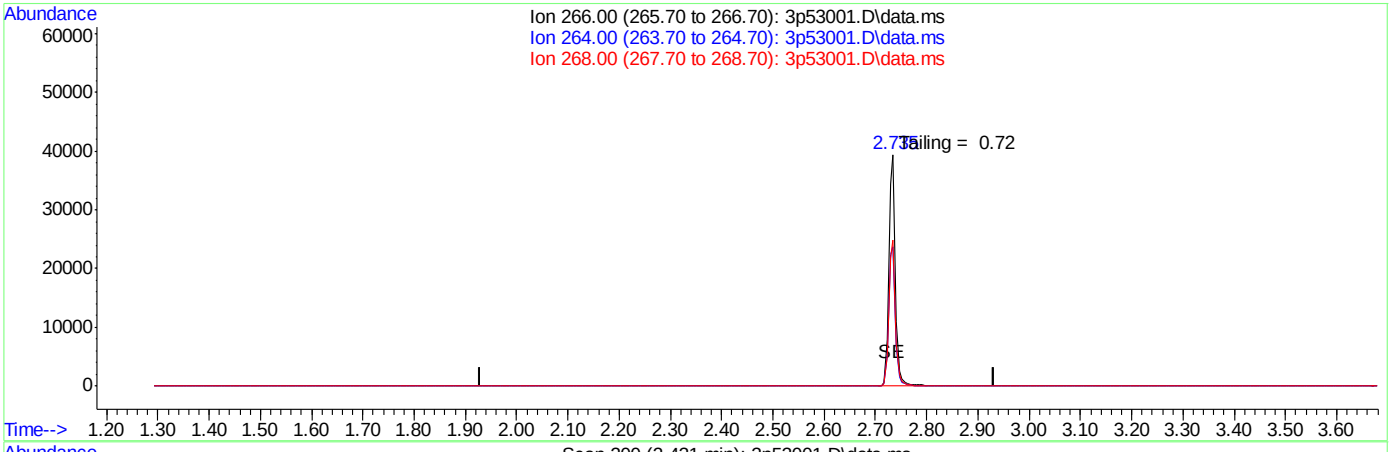
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
256.00	2452	296.00	2063	403.00	104		
256.90	195	297.00	234	421.00	79		
258.00	897	303.05	207	422.00	70		
258.95	175	314.85	205	423.00	847		
265.00	341	316.00	68	424.00	116		
273.00	507	323.05	584	441.10	2477		
274.00	1250	333.95	342	442.10	16253		
275.00	6705	352.00	134	443.10	2953		
276.00	910	365.00	967	444.00	279		
277.00	524	365.90	68				
292.90	70	372.00	278				

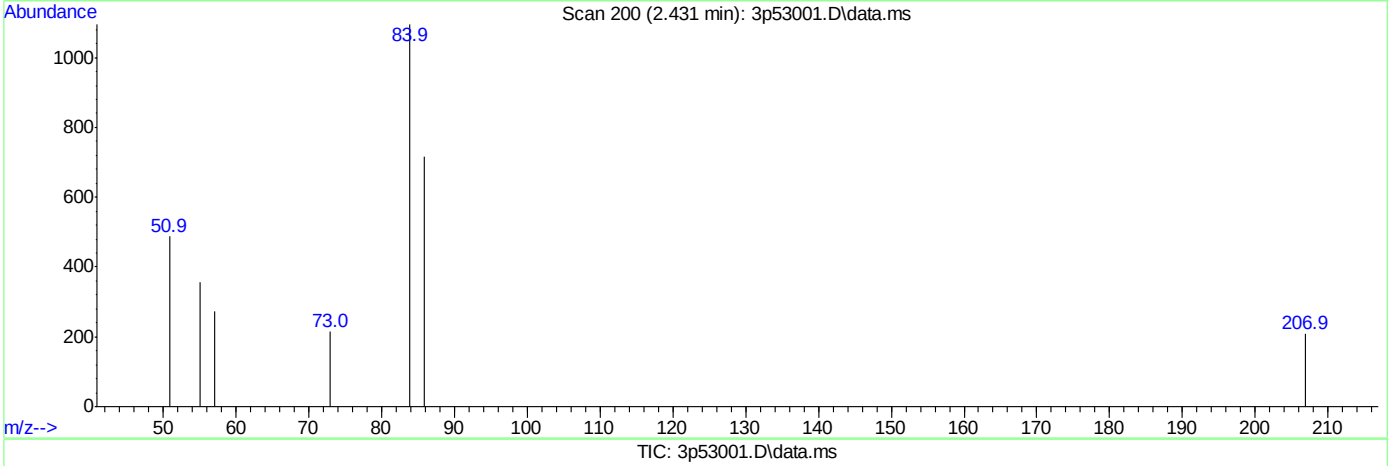
SGS ACCUTEST JC20098

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\E3P2413\
Data File : 3p53001.D
Acq On : 29 Apr 2016 9:08 am
Operator : robertl1
Sample : dftpp
Misc : op93185,e3p2413
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 29 09:14:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3P.M
Quant Title : zebron ZB-5msi 30mx0.25mmx0.25um
QLast Update : Wed Mar 02 08:34:25 2016
Response via : Initial Calibration





TIC: 3p53001.D\data.ms

(1) Pentachlorophenol

2.431min (-2.431) 0.00

response 0

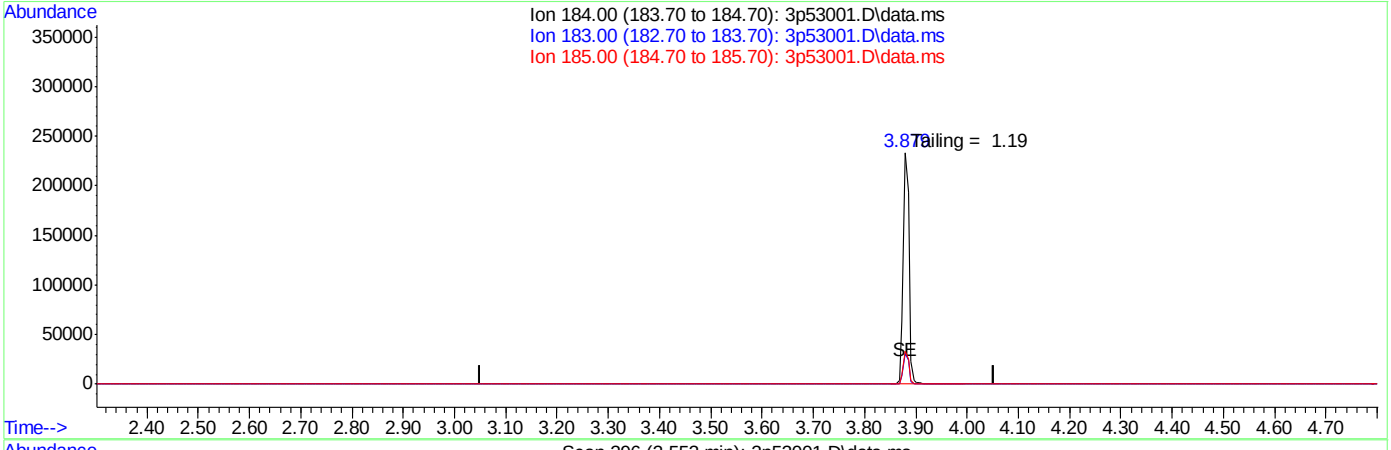
Ion	Exp%	Act%
266.00	100	0.00
264.00	0.00	0.00
268.00	0.00	0.00
0.00	0.00	0.00

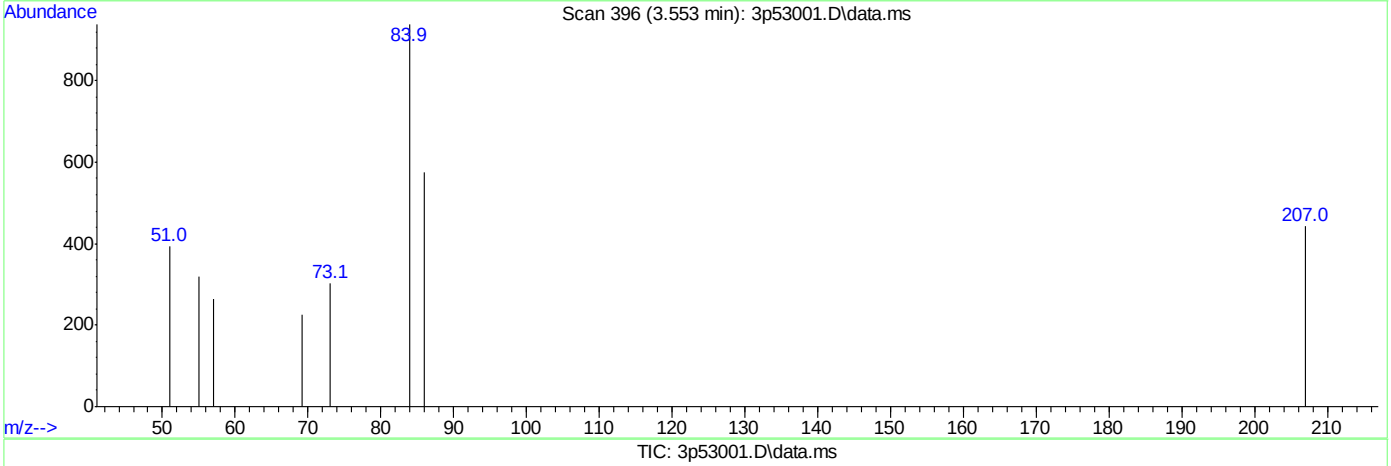
SGS ACCUTEST JC20098

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\E3P2413\
Data File : 3p53001.D
Acq On : 29 Apr 2016 9:08 am
Operator : robertl1
Sample : dftpp
Misc : op93185,e3p2413
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 29 09:14:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3P.M
Quant Title : zebron ZB-5msi 30mx0.25mmx0.25um
QLast Update : Wed Mar 02 08:34:25 2016
Response via : Initial Calibration





TIC: 3p53001.D\data.ms

(2) Benzidine

3.552min (-3.552) 0.00

response 0

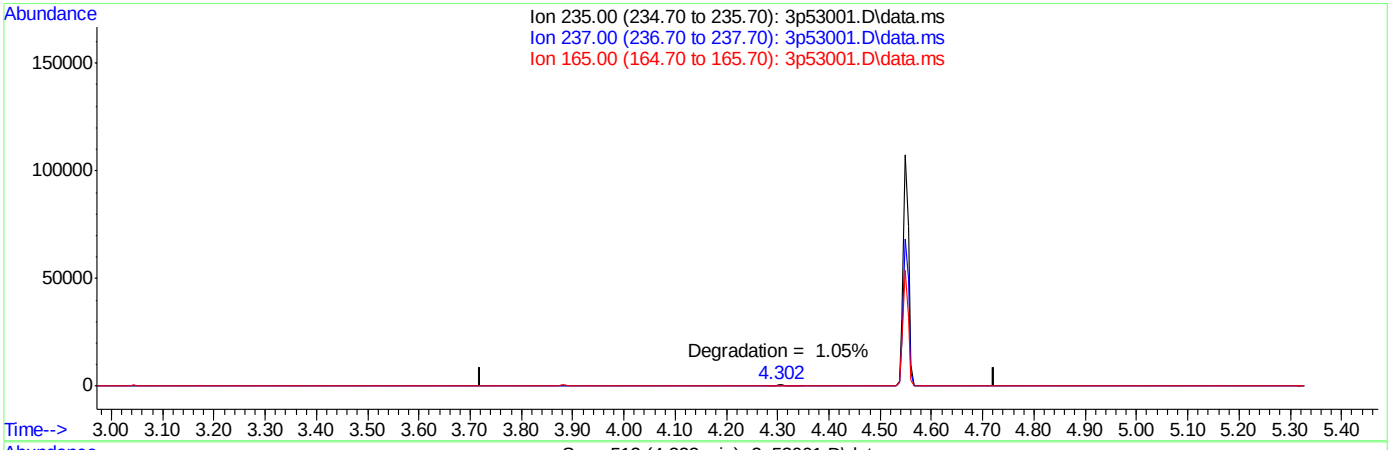
Ion	Exp%	Act%
184.00	100	0.00
183.00	0.00	0.00
185.00	0.00	0.00
0.00	0.00	0.00

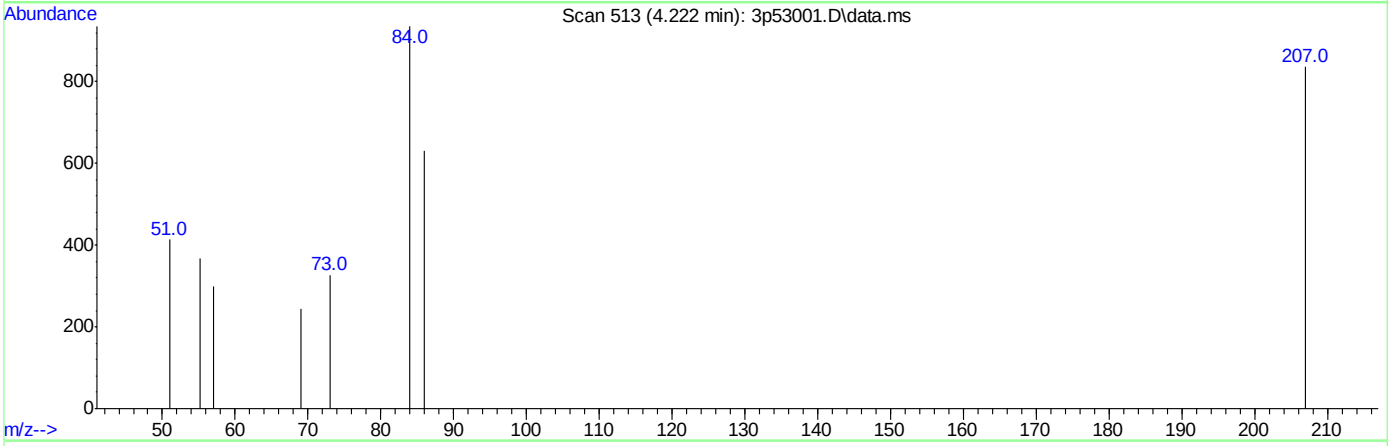
SGS ACCUTEST JC20098

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\E3P2413\
Data File : 3p53001.D
Acq On : 29 Apr 2016 9:08 am
Operator : robertl1
Sample : dftpp
Misc : op93185,e3p2413
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 29 09:14:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3P.M
Quant Title : zebron ZB-5msi 30mx0.25mmx0.25um
QLast Update : Wed Mar 02 08:34:25 2016
Response via : Initial Calibration





TIC: 3p53001.D\data.ms

(3) PP-DDT

4.222min (-4.222) 0.00

response 0

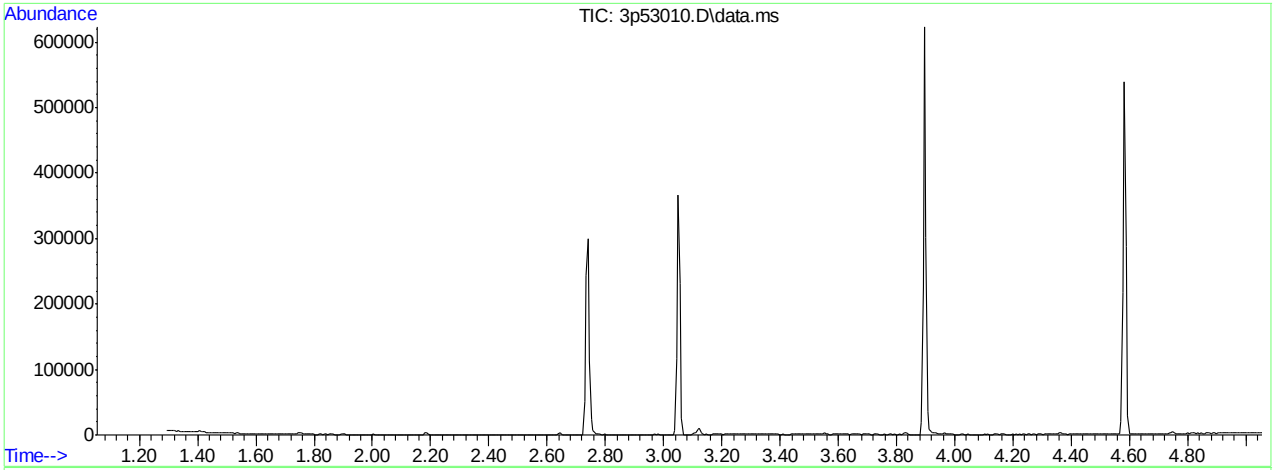
Ion	Exp%	Act%
235.00	100	0.00
237.00	0.00	0.00
165.00	0.00	0.00
0.00	0.00	0.00

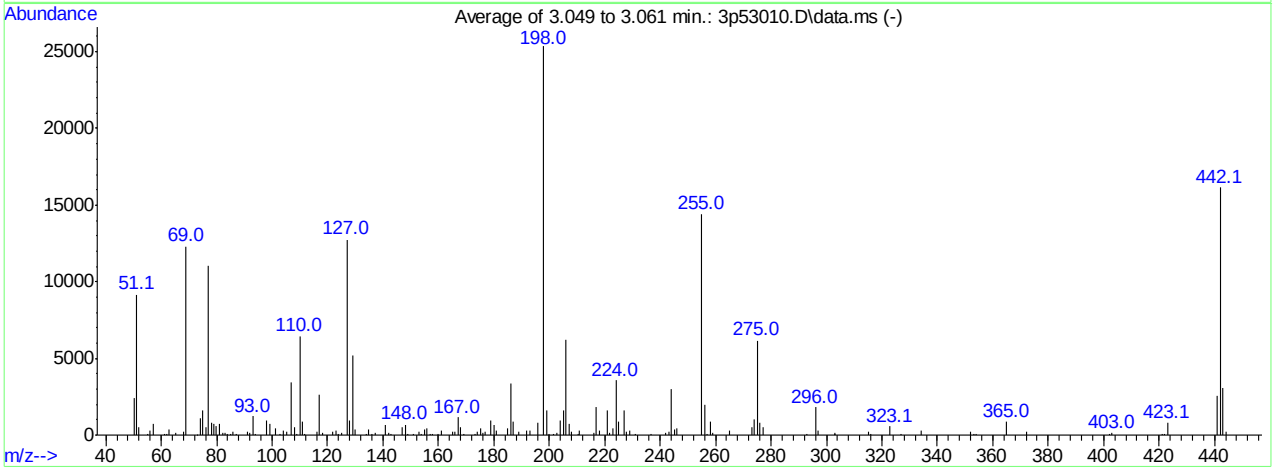
SGS ACCUTEST JC20098

DFTPP

Data File : C:\msdchem\1\data\E3P2414\3p53010.D Vial: 1
Acq On : 29 Apr 2016 1:31 pm Operator: robertl1
Sample : dftpp Inst : MSGC3P
Misc : op93185,e3p2414 Multiplr: 1.00
MS Integration Params: events.e

Method : C:\MSDCHEM\1\METHODS\DFTPP3P.M (ChemStation Integrator)
Title : zebron ZB-5msi 30mx0.25mmx0.25um





AutoFind: Scans 308, 309, 310; Background Corrected with Scan 303

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	36.1	9139	PASS
68	69	0.00	2	1.6	197	PASS
69	198	0.00	100	48.6	12307	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	50.2	12733	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	25345	PASS
199	198	5	9	6.3	1597	PASS
275	198	10	30	24.3	6167	PASS
365	198	1	100	3.4	854	PASS
441	443	0.01	100	83.1	2529	PASS
442	198	40	100	63.7	16136	PASS
443	442	17	23	18.9	3044	PASS

3p53010.D DFTPP3P.M Fri Apr 29 15:08:23 2016

Average of 3.049 to 3.061 min.: 3p53010.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
50.05	2397	69.00	12307	82.90	137	101.00	420
51.10	9139	73.00	14	83.90	71	103.00	80
52.05	480	74.00	1103	85.00	95	103.95	301
54.90	74	75.00	1579	86.00	220	105.05	252
55.95	307	76.05	539	86.90	80	107.00	3443
57.00	763	77.10	11072	91.00	208	108.00	516
61.00	83	78.00	776	92.00	133	109.00	89
61.90	102	79.00	715	93.00	1234	110.00	6472
62.95	364	79.95	566	94.00	75	111.00	911
65.00	134	80.95	759	98.00	952	111.90	67
68.00	197	82.00	137	99.00	705	116.05	197

Average of 3.049 to 3.061 min.: 3p53010.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
117.00	2648	134.95	404	153.90	94	169.00	90
118.00	129	136.00	89	155.00	341	173.00	109
121.90	238	137.00	122	156.00	439	174.00	226
122.95	311	141.00	647	156.90	76	175.05	453
123.90	89	141.90	117	158.00	78	175.95	169
125.00	125	142.90	86	159.90	108	176.95	205
127.00	12733	147.00	494	160.95	297	178.95	952
128.00	958	148.00	685	164.95	236	179.95	643
129.00	5184	149.00	77	166.00	191	181.00	262
129.95	375	151.10	73	167.00	1154	185.00	451
133.90	86	152.95	194	168.00	514	186.00	3354

Average of 3.049 to 3.061 min.: 3p53010.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
187.00	909	205.00	1634	222.95	410	245.00	342
188.90	231	206.00	6249	224.00	3572	246.00	466
192.00	285	207.00	755	225.05	886	255.00	14432
192.95	331	208.00	258	227.00	1596	256.00	1963
196.00	796	210.30	82	227.95	217	257.00	87
198.00	25345	210.95	261	229.05	286	258.00	846
199.00	1597	216.10	120	231.00	74	258.90	135
199.90	82	217.00	1846	236.90	77	264.95	312
201.50	68	218.00	274	242.05	147	273.00	478
202.90	163	221.00	1601	243.05	213	274.00	1033
204.00	933	221.80	120	244.05	2967	275.00	6167

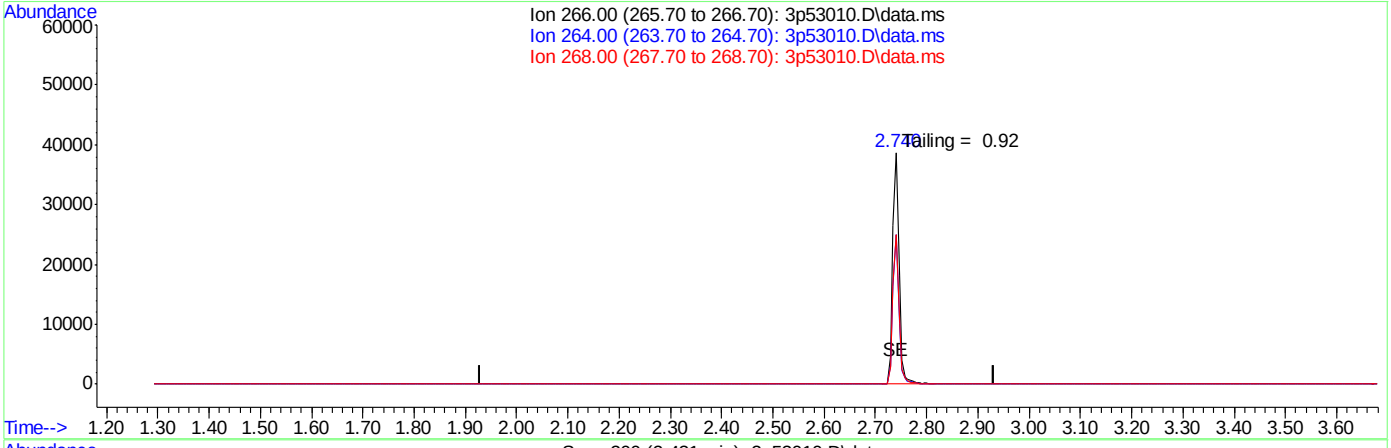
Average of 3.049 to 3.061 min.: 3p53010.D\data.ms
dftpp
Modified:subtracted

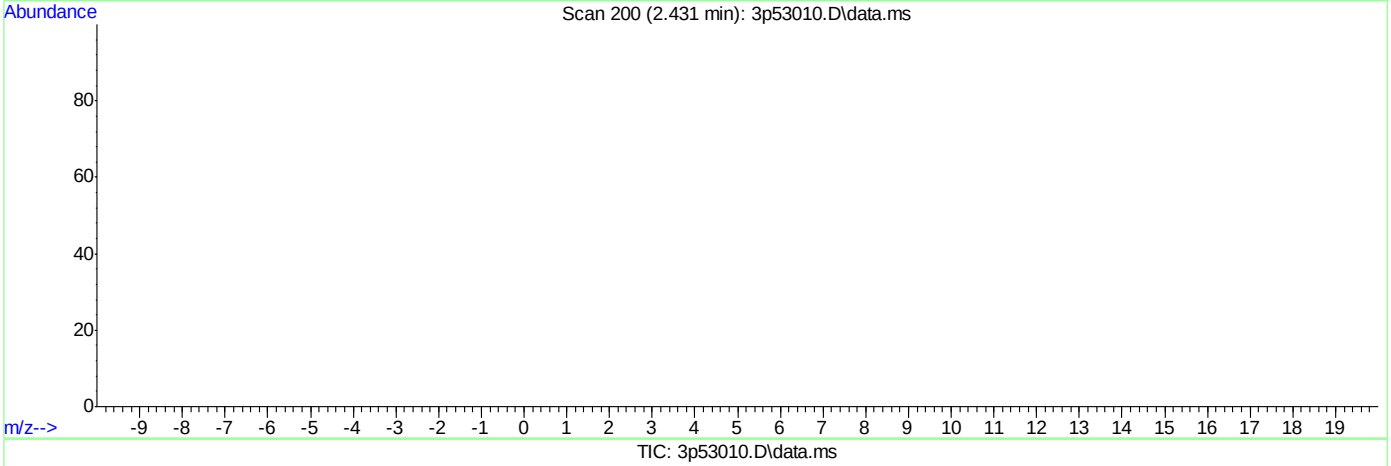
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
276.00	819	334.00	312	441.10	2529		
277.00	518	352.00	210	442.10	16136		
293.00	77	353.00	72	443.10	3044		
296.00	1814	354.00	84	444.00	225		
296.95	297	365.00	854				
302.90	113	372.00	245				
303.10	107	402.00	68				
315.00	229	403.00	146				
315.90	70	421.00	71				
323.05	562	421.90	68				
327.00	76	423.10	780				

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\E3P2414\
Data File : 3p53010.D
Acq On : 29 Apr 2016 1:31 pm
Operator : robertl1
Sample : dftpp
Misc : op93185,e3p2414
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 29 13:36:35 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3P.M
Quant Title : zebron ZB-5msi 30mx0.25mmx0.25um
QLast Update : Wed Mar 02 08:34:25 2016
Response via : Initial Calibration





TIC: 3p53010.D\data.ms

(1) Pentachlorophenol

2.431min (-2.431) 0.00

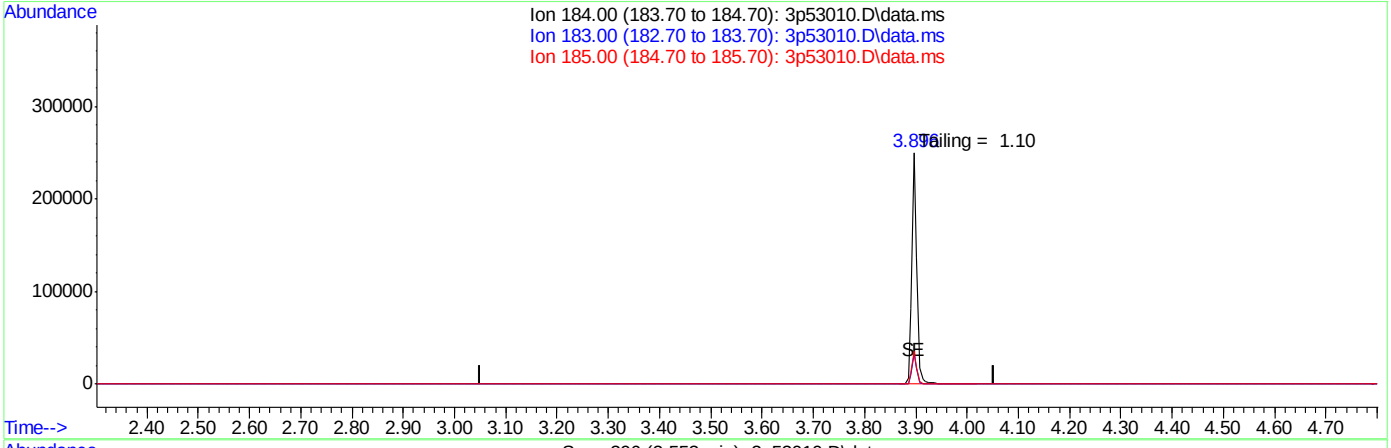
response 0

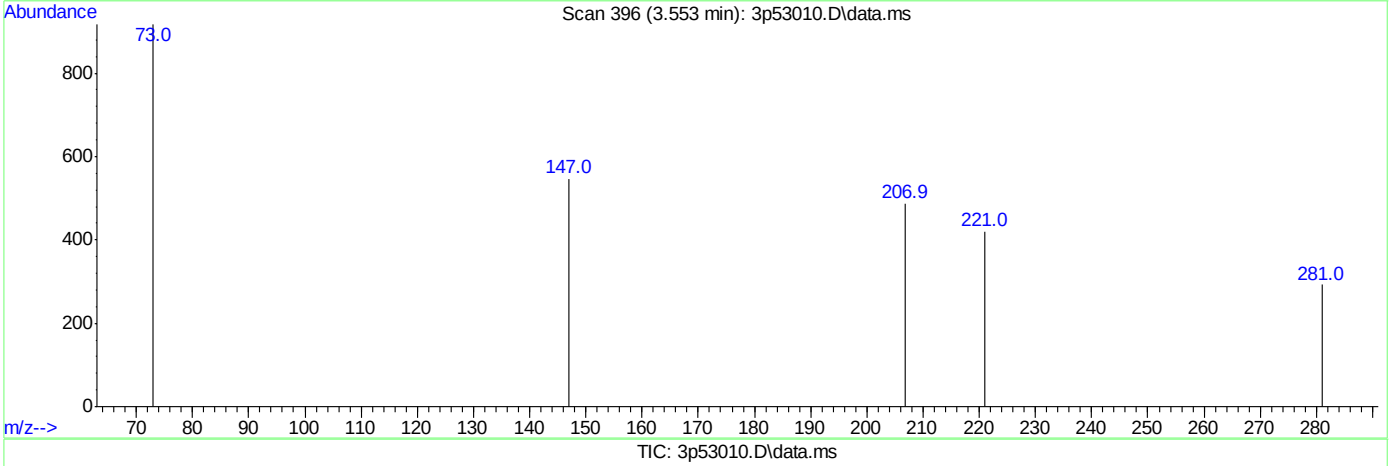
Ion	Exp%	Act%
266.00	100	0.00
264.00	0.00	0.00
268.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\E3P2414\
Data File : 3p53010.D
Acq On : 29 Apr 2016 1:31 pm
Operator : robertl1
Sample : dftpp
Misc : op93185,e3p2414
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 29 13:36:35 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3P.M
Quant Title : zebron ZB-5msi 30mx0.25mmx0.25um
QLast Update : Wed Mar 02 08:34:25 2016
Response via : Initial Calibration





TIC: 3p53010.D\data.ms

(2) Benzidine

3.552min (-3.552) 0.00

response 0

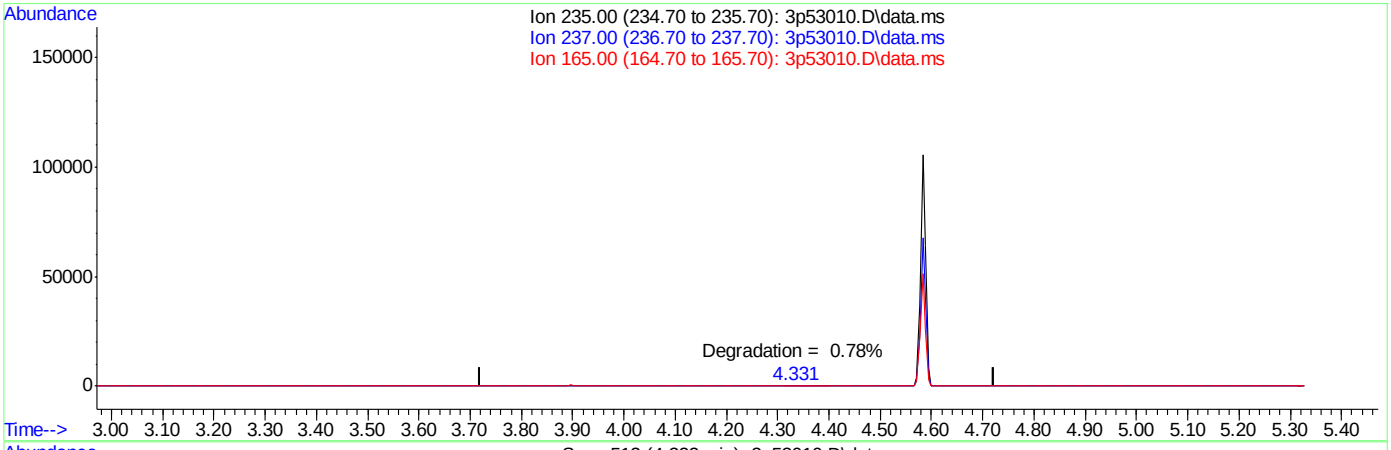
Ion	Exp%	Act%
184.00	100	0.00
183.00	0.00	0.00
185.00	0.00	0.00
0.00	0.00	0.00

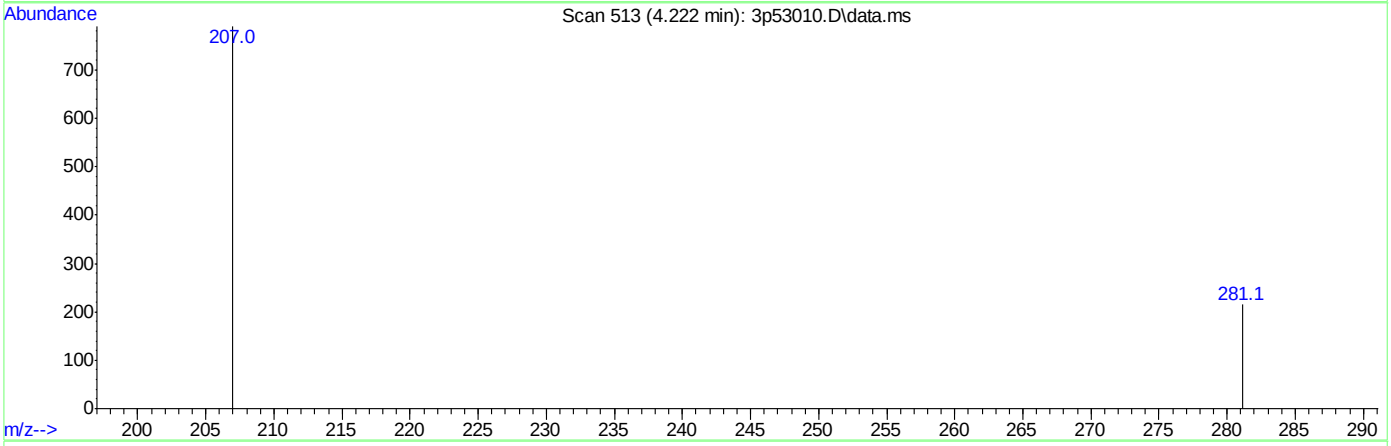
SGS ACCUTEST JC20098

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\E3P2414\
Data File : 3p53010.D
Acq On    : 29 Apr 2016   1:31 pm
Operator  : robertl1
Sample    : dftpp
Misc      : op93185,e3p2414
ALS Vial  : 1   Sample Multiplier: 1

Quant Time: Apr 29 13:36:35 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3P.M
Quant Title  : zebron ZB-5msi 30mx0.25mmx0.25um
QLast Update : Wed Mar 02 08:34:25 2016
Response via : Initial Calibration
```





TIC: 3p53010.D\data.ms

(3) PP-DDT

4.222min (-4.222) 0.00

response 0

Ion	Exp%	Act%
235.00	100	0.00
237.00	0.00	0.00
165.00	0.00	0.00
0.00	0.00	0.00

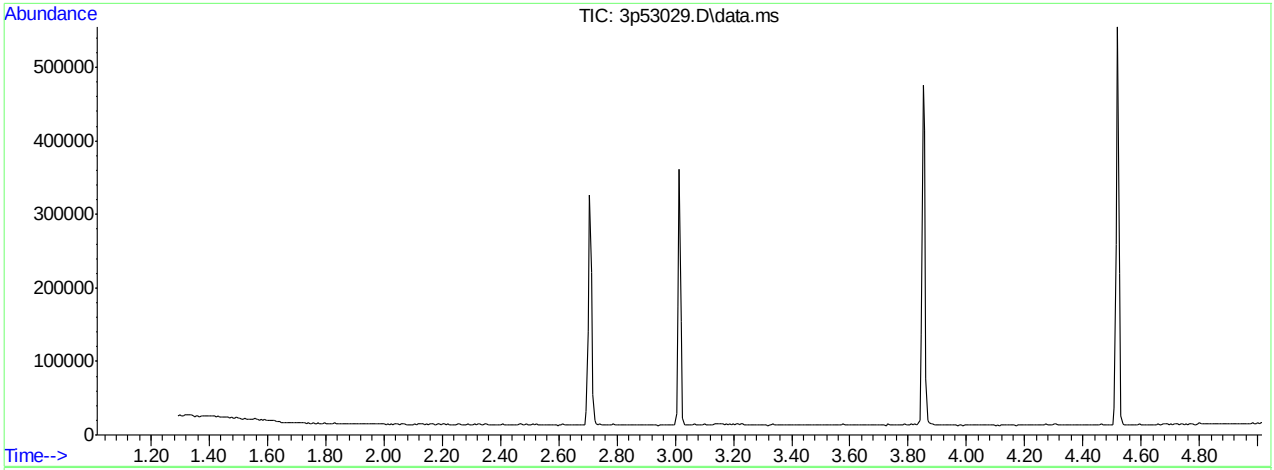
7.5.10.3 7

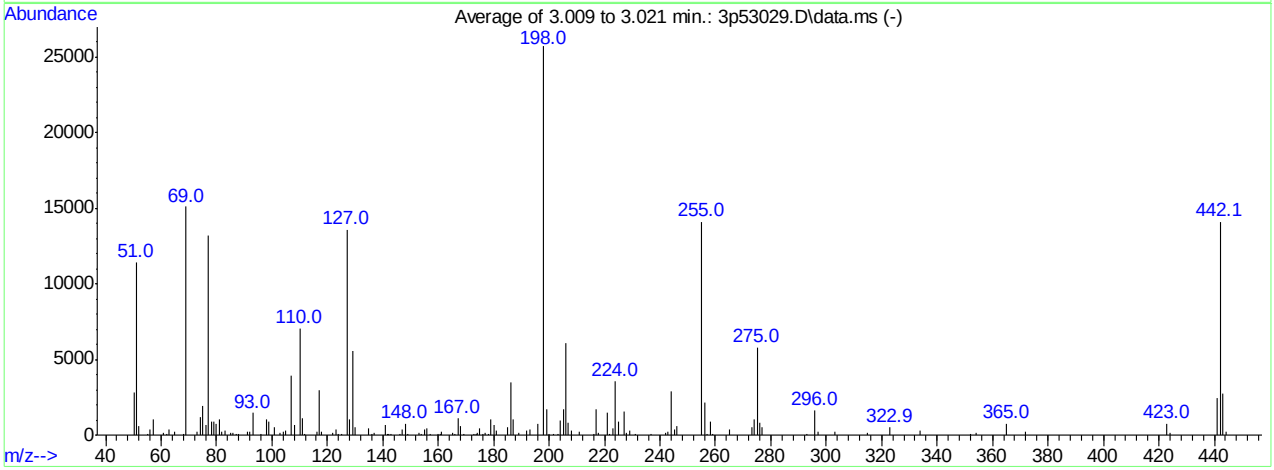
SGS ACCUTEST JC20098

DFTPP

Data File : C:\msdchem\1\data\E3P2415\3p53029.D Vial: 1
Acq On : 2 May 2016 11:46 am Operator: robertl1
Sample : DFTPP Inst : MSGC3P
Misc : op93185,e3p2415 Multiplr: 1.00
MS Integration Params: events.e

Method : C:\MSDCHEM\1\METHODS\DFTPP3P.M (ChemStation Integrator)
Title : zebron ZB-5msi 30mx0.25mmx0.25um





AutoFind: Scans 301, 302, 303; Background Corrected with Scan 297

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	44.5	11422	PASS
68	69	0.00	2	0.6	88	PASS
69	198	0.00	100	58.8	15091	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	52.8	13558	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	25677	PASS
199	198	5	9	6.7	1722	PASS
275	198	10	30	22.6	5796	PASS
365	198	1	100	3.0	762	PASS
441	443	0.01	100	89.0	2410	PASS
442	198	40	100	54.9	14089	PASS
443	442	17	23	19.2	2707	PASS

3p53029.D DFTPP3P.M Mon May 02 14:53:18 2016

Average of 3.009 to 3.021 min.: 3p53029.D\data.ms
DFTPP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
50.10	2851	69.00	15091	82.95	275	100.95	511
51.05	11422	73.00	226	85.00	115	103.00	134
52.00	601	74.05	1175	85.90	151	103.95	254
55.00	44	75.00	1927	86.90	85	105.00	265
55.95	400	76.00	639	87.90	101	107.00	3920
57.00	1022	77.10	13211	90.95	225	108.00	643
61.00	150	78.05	897	91.95	213	110.00	7050
62.00	67	79.00	861	93.00	1471	111.00	1110
63.00	406	79.95	718	95.90	70	111.90	78
64.95	237	81.00	1051	98.00	1034	116.05	231
68.00	88	81.95	219	99.00	855	117.00	2970

Average of 3.009 to 3.021 min.: 3p53029.D\data.ms
DFTPP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
117.95	190	137.00	151	154.95	358	173.00	89
121.90	125	140.95	699	155.95	483	173.80	70
123.00	395	141.80	78	156.90	85	174.00	153
124.00	87	142.00	112	159.90	91	175.05	468
125.00	112	142.90	102	160.80	70	175.90	92
127.00	13558	146.00	98	161.05	235	176.90	130
127.95	1017	147.00	353	165.00	146	178.00	68
129.00	5541	148.00	753	166.10	91	178.95	1008
129.90	495	149.00	89	167.00	1121	180.00	690
135.00	461	153.00	146	167.95	571	180.85	315
136.00	103	153.90	108	169.00	70	185.00	491

Average of 3.009 to 3.021 min.: 3p53029.D\data.ms
DFTPP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
186.00	3492	204.00	937	223.00	432	245.05	385
187.00	1052	205.00	1719	224.00	3565	246.00	576
189.00	119	206.05	6104	225.00	902	255.00	14105
191.90	329	207.00	794	227.00	1577	256.00	2126
192.95	379	208.00	273	228.00	135	256.90	86
196.00	779	211.05	224	228.95	306	258.00	906
198.00	25677	216.20	103	231.00	69	259.00	82
199.00	1722	216.95	1724	236.90	82	264.95	353
199.90	79	217.90	117	242.00	117	273.00	501
201.50	75	221.00	1473	242.95	201	274.00	1027
203.00	107	221.90	67	244.00	2864	275.00	5796

Average of 3.009 to 3.021 min.: 3p53029.D\data.ms
DFTPP
Modified:subtracted

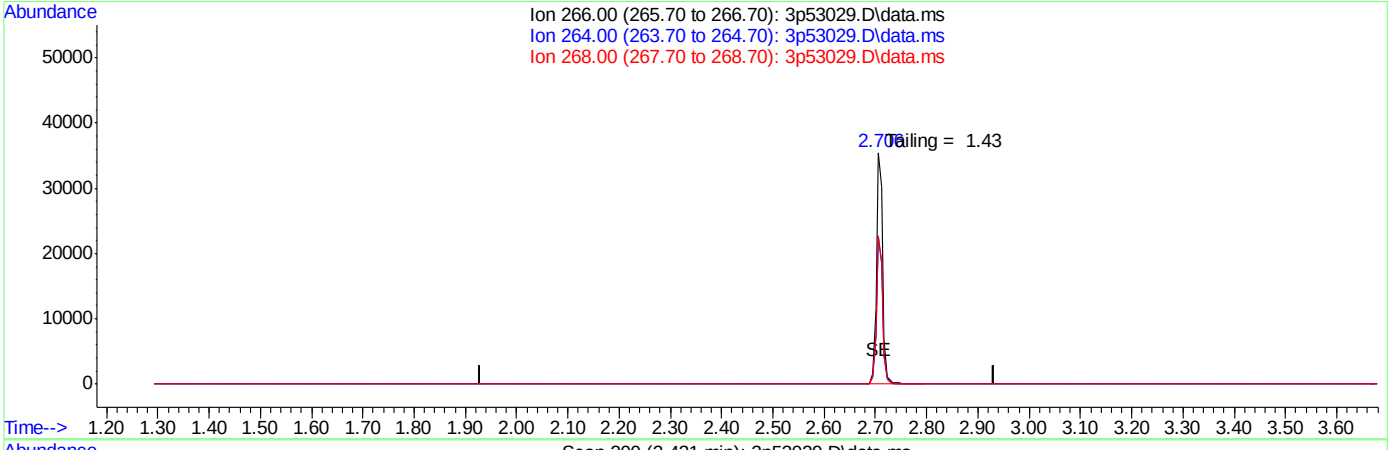
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
276.00	798	365.00	762				
276.95	535	372.00	241				
293.10	70	423.00	777				
296.00	1633	424.00	143				
296.95	206	441.10	2410				
303.00	188	442.10	14089				
315.00	117	443.00	2707				
322.95	526	444.05	206				
334.00	292						
352.00	67						
354.00	155						

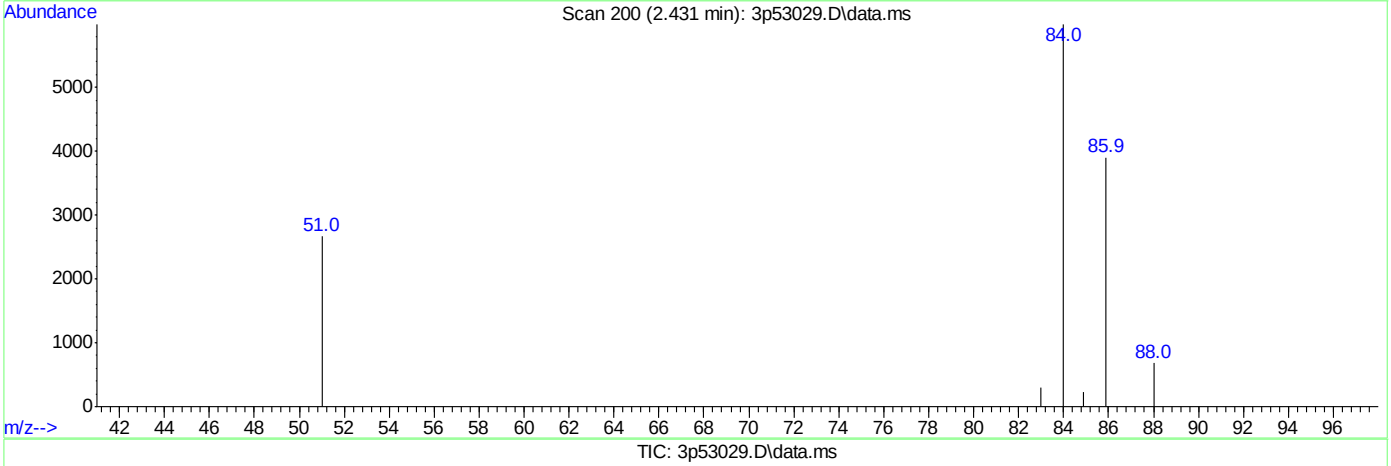
SGS ACCUTEST JC20098

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\E3P2415\
Data File : 3p53029.D
Acq On : 2 May 2016 11:46 am
Operator : robertl1
Sample : DFTPP
Misc : op93185,e3p2415
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 02 11:51:51 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3P.M
Quant Title : zebron ZB-5msi 30mx0.25mmx0.25um
QLast Update : Wed Mar 02 08:34:25 2016
Response via : Initial Calibration





TIC: 3p53029.D\data.ms

(1) Pentachlorophenol

2.431min (-2.431) 0.00

response 0

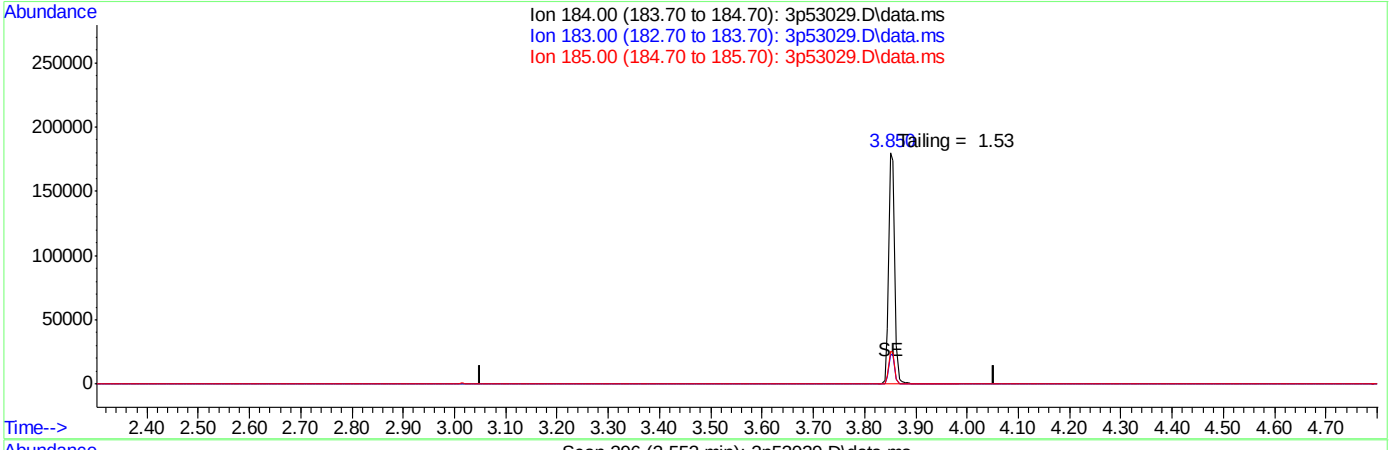
Ion	Exp%	Act%
266.00	100	0.00
264.00	0.00	0.00
268.00	0.00	0.00
0.00	0.00	0.00

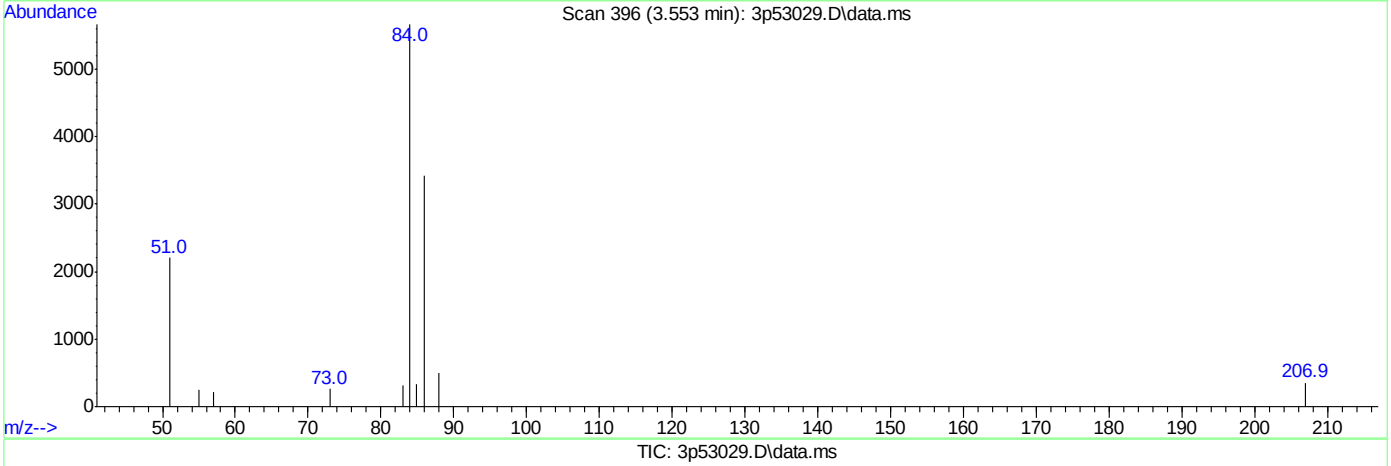
SGS ACCUTEST JC20098

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\E3P2415\
Data File : 3p53029.D
Acq On : 2 May 2016 11:46 am
Operator : robertl1
Sample : DFTPP
Misc : op93185,e3p2415
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 02 11:51:51 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3P.M
Quant Title : zebron ZB-5msi 30mx0.25mmx0.25um
QLast Update : Wed Mar 02 08:34:25 2016
Response via : Initial Calibration





TIC: 3p53029.D\data.ms

(2) Benzidine

3.552min (-3.552) 0.00

response 0

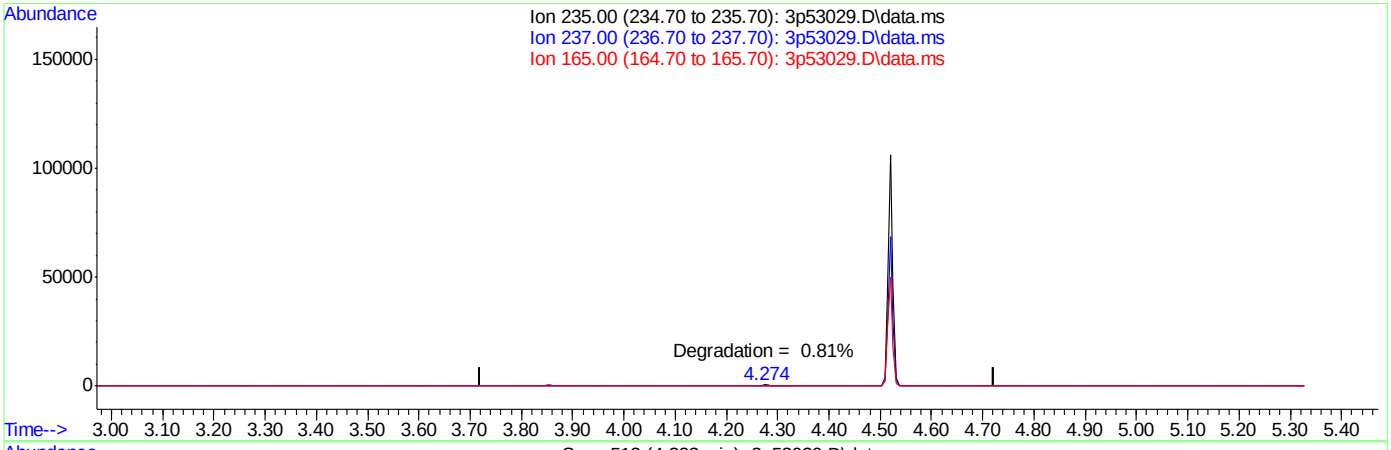
Ion	Exp%	Act%
184.00	100	0.00
183.00	0.00	0.00
185.00	0.00	0.00
0.00	0.00	0.00

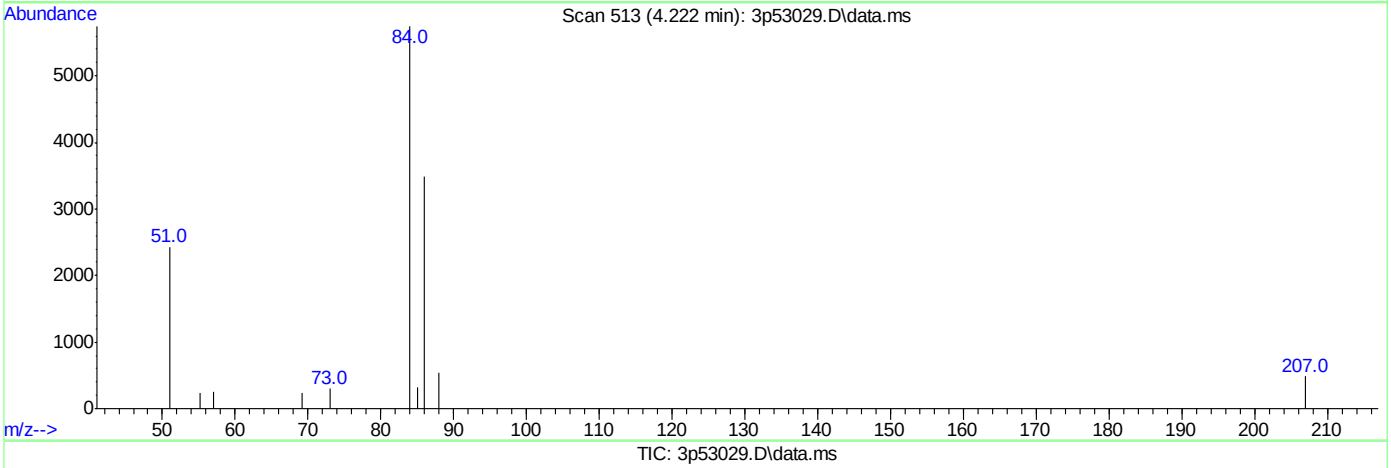
SGS ACCUTEST JC20098

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\E3P2415\
Data File : 3p53029.D
Acq On    :  2 May 2016  11:46 am
Operator  : robertl1
Sample    : DFTPP
Misc      : op93185,e3p2415
ALS Vial  : 1   Sample Multiplier: 1

Quant Time: May 02 11:51:51 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3P.M
Quant Title  : zebron ZB-5msi 30mx0.25mmx0.25um
QLast Update : Wed Mar 02 08:34:25 2016
Response via : Initial Calibration
```





TIC: 3p53029.D\data.ms

(3) PP-DDT

4.222min (-4.222) 0.00

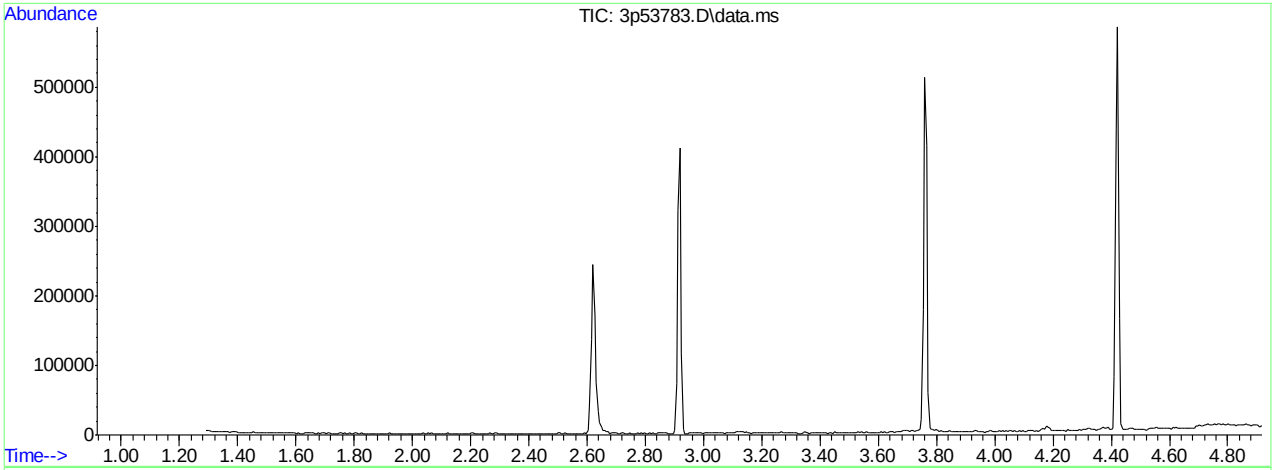
response 0

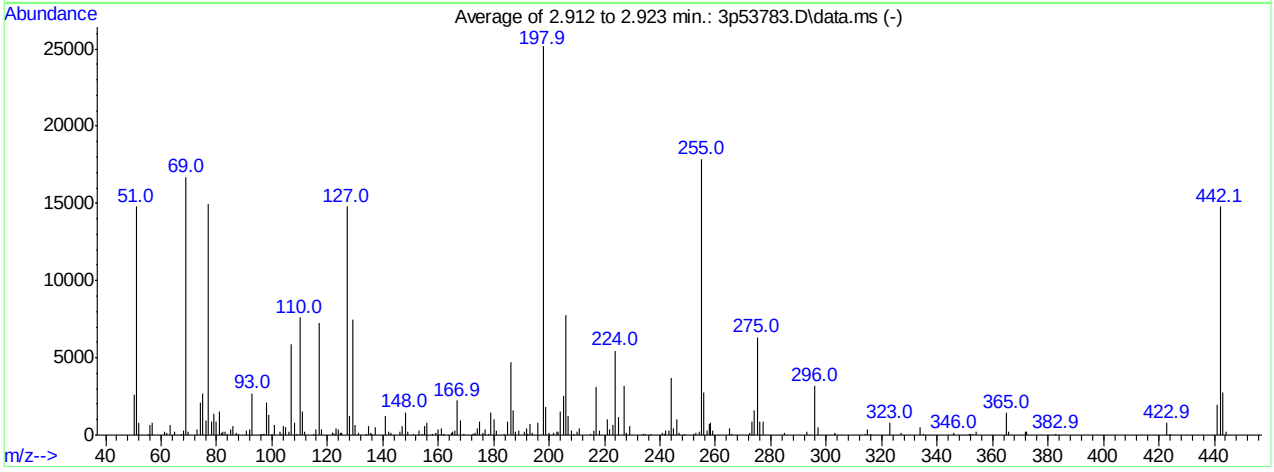
Ion	Exp%	Act%
235.00	100	0.00
237.00	0.00	0.00
165.00	0.00	0.00
0.00	0.00	0.00

DFTPP

Data File : C:\msdchem\1\data\E3P2447\3p53783.D Vial: 1
Acq On : 25 May 2016 11:28 am Operator: robertl1
Sample : DFTPP Inst : MSGC3P
Misc : op94042,e3p2447 Multiplr: 1.00
MS Integration Params: events.e

Method : C:\MSDCHEM\1\METHODS\DFTPP3P.M (ChemStation Integrator)
Title : zebron ZB-5msi 30mx0.25mmx0.25um





AutoFind: Scans 284, 285, 286; Background Corrected with Scan 280

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	58.8	14784	PASS
68	69	0.00	2	1.7	284	PASS
69	198	0.00	100	66.4	16715	PASS
70	69	0.00	2	1.3	217	PASS
127	198	40	60	58.8	14800	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	25161	PASS
199	198	5	9	7.2	1809	PASS
275	198	10	30	25.2	6329	PASS
365	198	1	100	5.7	1424	PASS
441	443	0.01	100	71.7	1967	PASS
442	198	40	100	58.7	14781	PASS
443	442	17	23	18.6	2742	PASS

3p53783.D DFTPP3P.M Wed May 25 11:34:38 2016

Average of 2.912 to 2.923 min.: 3p53783.D\data.ms
DFTPP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
50.10	2579	68.10	284	81.00	1541	92.95	2723
51.00	14784	68.95	16715	81.80	134	96.00	94
52.00	769	69.90	217	82.10	187	97.00	85
54.95	34	72.95	350	82.95	212	97.20	91
55.95	686	74.00	2106	83.90	87	98.00	2111
56.90	802	75.00	2708	84.95	355	99.00	1308
61.05	227	76.10	922	85.90	605	100.00	85
61.90	140	77.05	14985	86.95	159	101.00	629
63.05	625	78.00	865	88.00	70	102.95	232
65.00	188	79.00	1365	90.85	305	103.20	97
67.10	70	79.90	903	92.00	351	103.95	600

Average of 2.912 to 2.923 min.: 3p53783.D\data.ms
DFTPP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
104.95	509	117.95	382	130.00	654	147.05	610
106.10	196	121.80	155	131.15	150	148.00	1476
107.00	5897	122.00	145	133.90	82	148.95	233
108.00	805	122.70	102	134.95	558	151.10	71
108.90	90	123.05	455	135.80	142	152.95	276
110.00	7591	123.85	376	136.00	97	154.20	87
110.95	1543	124.90	115	137.05	482	155.00	570
111.90	239	125.10	129	140.90	1215	156.00	825
114.90	70	127.00	14800	141.95	254	157.70	103
115.85	335	128.00	1272	142.90	116	157.90	84
117.00	7249	129.00	7445	146.05	236	159.00	167

Average of 2.912 to 2.923 min.: 3p53783.D\data.ms
DFTPP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
159.95	347	172.90	90	185.05	850	197.90	25161
160.95	425	173.10	146	186.00	4709	198.90	1809
161.80	73	173.95	470	187.05	1621	199.75	149
162.00	90	175.00	873	188.00	208	201.40	121
164.90	179	176.00	164	189.00	268	202.90	201
165.10	194	176.95	401	190.90	232	203.10	186
166.00	293	177.90	77	191.90	462	204.00	1528
166.95	2237	179.00	1425	192.40	71	205.00	2578
168.00	922	179.95	1035	193.00	716	206.00	7801
169.00	110	180.95	309	194.05	173	206.90	1226
172.60	96	183.80	67	195.95	817	208.00	277

Average of 2.912 to 2.923 min.: 3p53783.D\data.ms
DFTPP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
208.90	102	225.00	1176	243.05	306	257.10	273
210.05	213	226.95	3177	244.05	3709	257.90	707
210.95	459	227.80	93	245.00	443	258.10	795
214.90	69	228.00	143	245.95	1046	258.95	312
216.00	296	228.95	608	247.00	112	264.90	446
217.00	3115	234.10	92	249.00	93	265.10	185
217.95	258	234.90	90	252.10	69	265.90	95
220.95	1020	236.90	95	252.85	173	272.45	179
221.95	358	240.85	145	254.10	213	273.00	866
223.00	669	241.70	74	255.00	17887	274.00	1623
224.00	5456	242.10	264	255.95	2770	275.00	6329

Average of 2.912 to 2.923 min.: 3p53783.D\data.ms
DFTPP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
276.00	862	323.00	792	371.95	188		
277.00	898	326.95	179	372.20	204		
285.00	113	333.95	519	382.90	85		
292.95	255	335.10	82	422.95	784		

DFTPP3P.M Wed May 25 11:34:30 2016 Page: 0

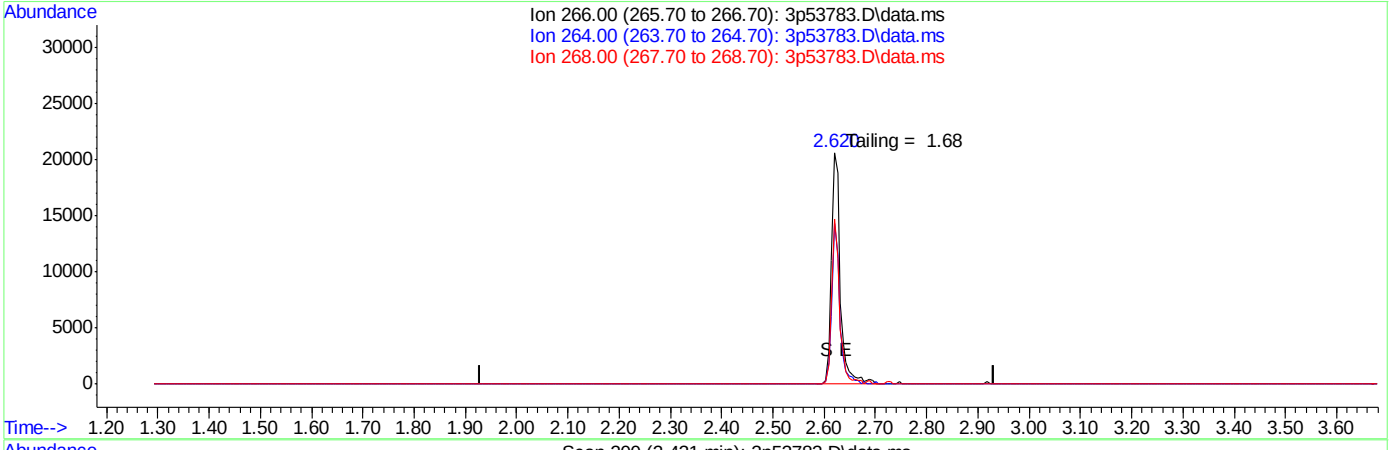
296.00	3177	346.00	143	424.10	92
297.00	506	351.80	96	441.05	1967
302.90	90	352.10	77	442.05	14781
303.10	119	352.90	78	443.05	2742
313.90	70	353.95	193	444.05	241
314.90	374	365.00	1424		
315.90	72	365.95	206		

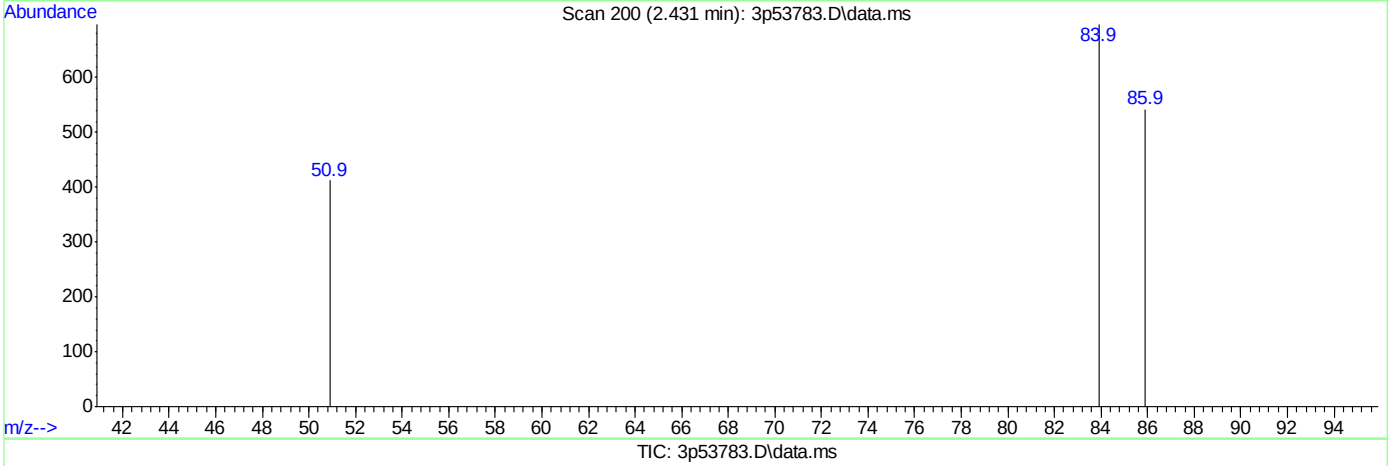
DFTPP3P.M Wed May 25 11:34:30 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\E3P2447\
Data File : 3p53783.D
Acq On : 25 May 2016 11:28 am
Operator : robertl1
Sample : DFTPP
Misc : op94042,e3p2447
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 25 11:33:38 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3P.M
Quant Title : zebron ZB-5msi 30mx0.25mmx0.25um
QLast Update : Wed Mar 02 08:34:25 2016
Response via : Initial Calibration





TIC: 3p53783.D\data.ms

(1) Pentachlorophenol

2.431min (-2.431) 0.00

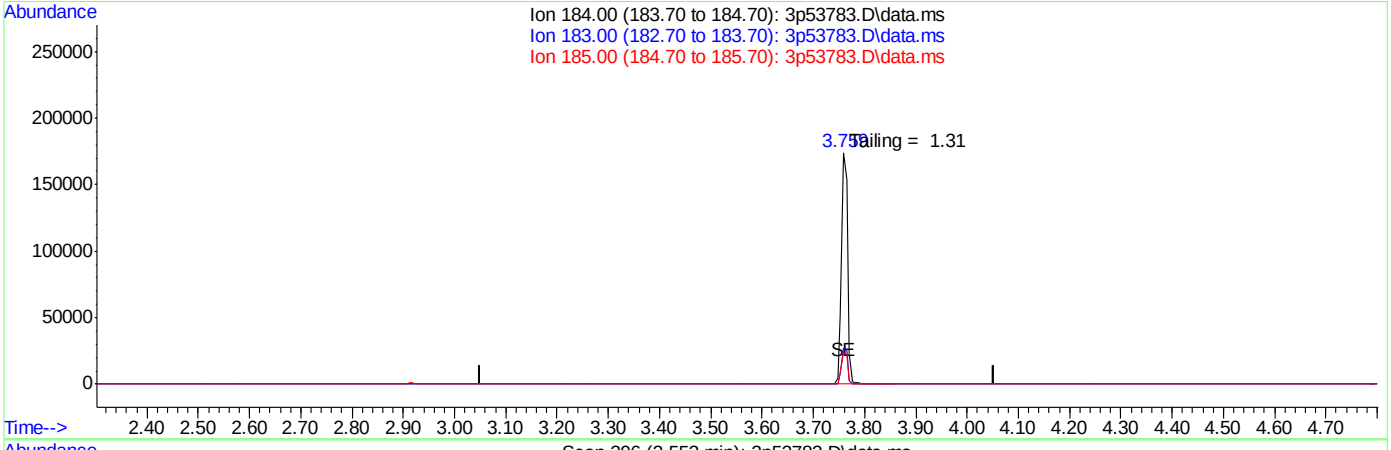
response 0

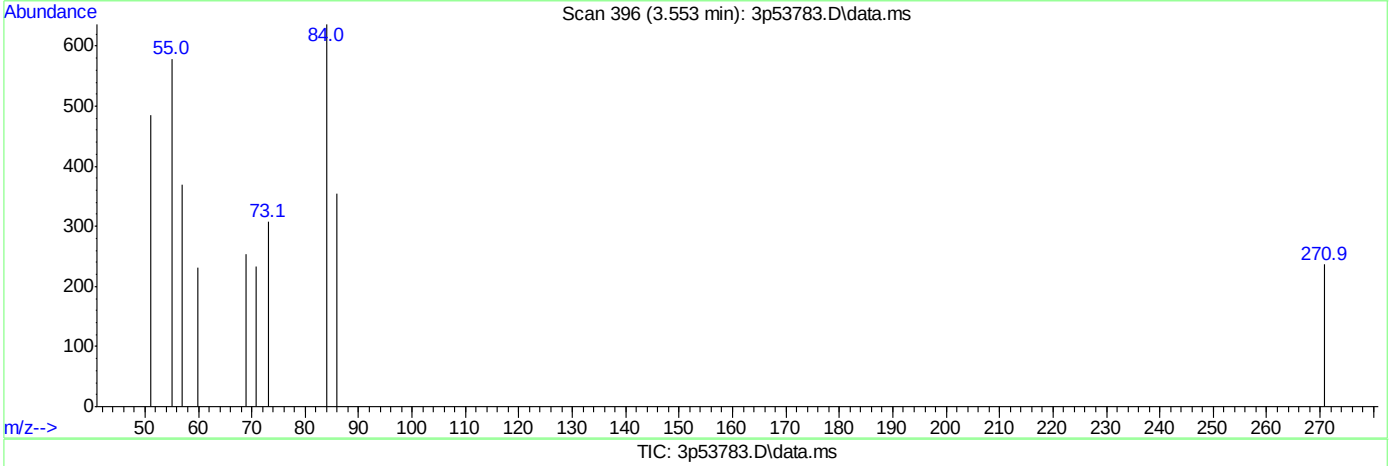
Ion	Exp%	Act%
266.00	100	0.00
264.00	0.00	0.00
268.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\E3P2447\
Data File : 3p53783.D
Acq On    : 25 May 2016  11:28 am
Operator  : robertl1
Sample    : DFTPP
Misc      : op94042,e3p2447
ALS Vial  : 1   Sample Multiplier: 1

Quant Time: May 25 11:33:38 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3P.M
Quant Title  : zebron ZB-5msi 30mx0.25mmx0.25um
QLast Update : Wed Mar 02 08:34:25 2016
Response via : Initial Calibration
```





TIC: 3p53783.D\data.ms

(2) Benzidine

3.552min (-3.552) 0.00

response 0

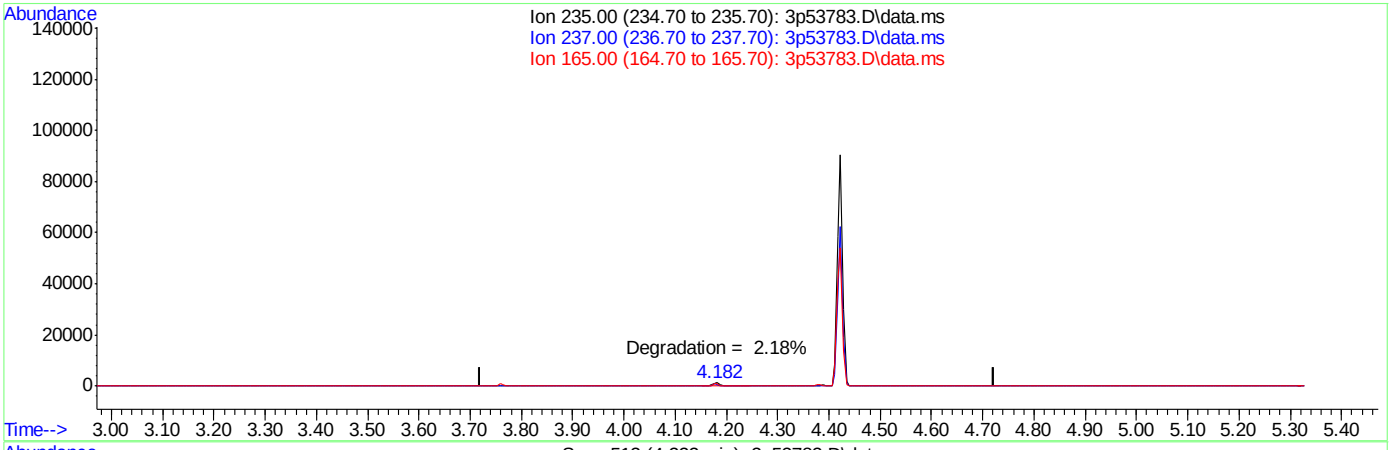
Ion	Exp%	Act%
184.00	100	0.00
183.00	0.00	0.00
185.00	0.00	0.00
0.00	0.00	0.00

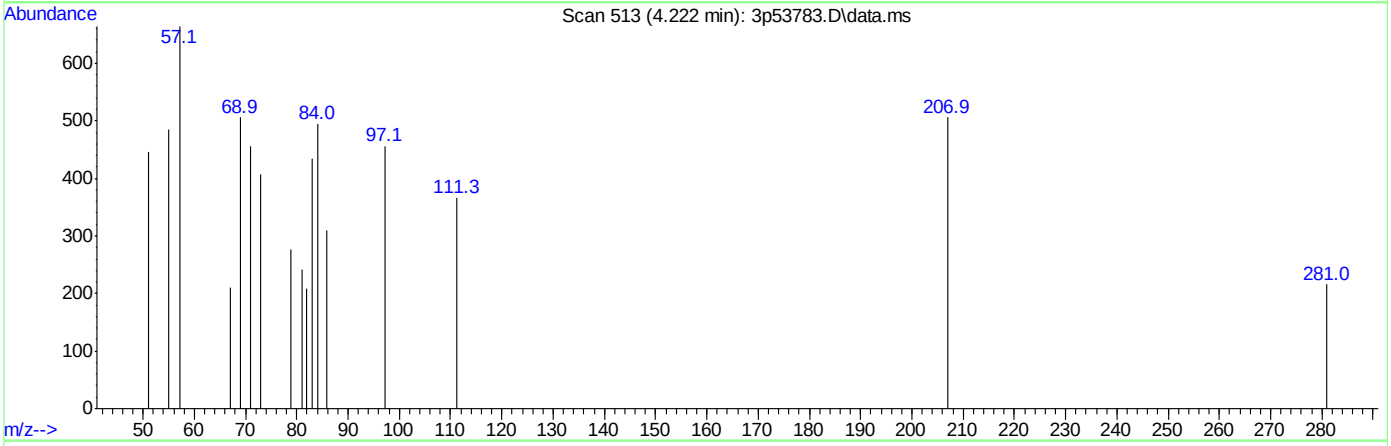
SGS ACCUTEST JC20098

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\E3P2447\
Data File : 3p53783.D
Acq On : 25 May 2016 11:28 am
Operator : robertl1
Sample : DFTPP
Misc : op94042,e3p2447
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 25 11:33:38 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3P.M
Quant Title : zebron ZB-5msi 30mx0.25mmx0.25um
QLast Update : Wed Mar 02 08:34:25 2016
Response via : Initial Calibration





TIC: 3p53783.D\data.ms

(3) PP-DDT

4.222min (-4.222) 0.00

response 0

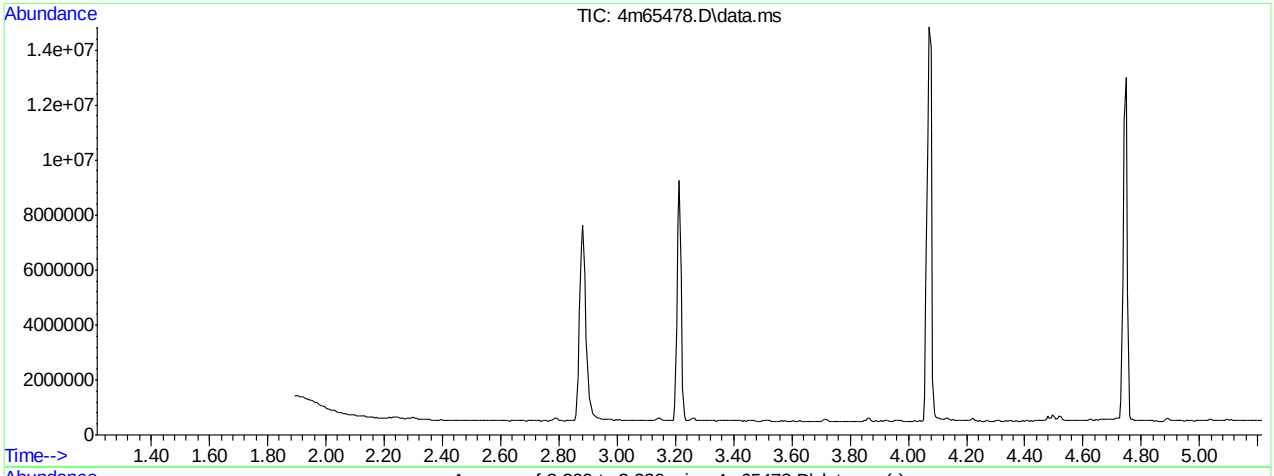
Ion	Exp%	Act%
235.00	100	0.00
237.00	0.00	0.00
165.00	0.00	0.00
0.00	0.00	0.00

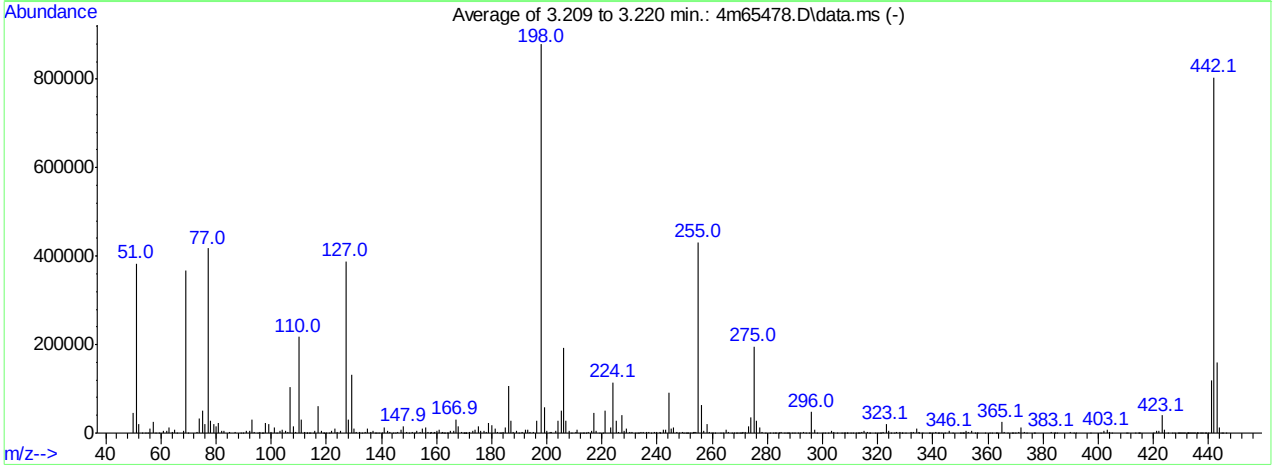
SGS ACCUTEST JC20098

DFTPP

Data File : C:\msdchem\1\DATA\E4M2930\4m65478.D Vial: 1
Acq On : 24 May 2016 10:16 am Operator: linseyk
Sample : dftpp Inst : GCMS4M
Misc : op93641a,e4m2930 Multiplr: 1.00
MS Integration Params: events3.e

Method : C:\MSDCHEM\1\METHODS\DFTPP4M.M (ChemStation Integrator)
Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um





AutoFind: Scans 231, 232, 233; Background Corrected with Scan 224

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	43.7	383816	PASS
68	69	0.00	2	1.7	6115	PASS
69	198	0.00	100	41.8	367628	PASS
70	69	0.00	2	0.2	884	PASS
127	198	40	60	44.2	388395	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	878571	PASS
199	198	5	9	6.7	59024	PASS
275	198	10	30	22.2	195413	PASS
365	198	1	100	2.8	24512	PASS
441	443	0.01	100	74.2	119432	PASS
442	198	40	100	91.5	803968	PASS
443	442	17	23	20.0	160928	PASS

4m65478.D DFTPP4M.M Tue May 24 10:57:08 2016 MANAGER

Average of 3.209 to 3.220 min.: 4m65478.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
50.10	44501	62.05	4869	76.00	19277	89.65	177
51.05	383816	62.95	13051	77.05	418029	91.00	4776
52.05	19790	64.05	2146	78.10	28506	92.00	5263
53.05	408	65.05	6743	79.00	21528	93.00	31203
54.20	378	65.85	433	80.00	15869	94.00	2155
55.05	553	68.00	6115	81.00	23233	94.95	426
56.00	10260	69.00	367628	82.00	4576	95.95	1794
57.05	24667	70.00	884	83.00	4037	96.80	480
58.00	751	73.00	1737	85.00	3886	97.05	4
59.05	817	74.00	32465	86.95	3025	97.95	23463
61.00	4626	75.00	51856	88.95	455	99.00	20753

Average of 3.209 to 3.220 min.: 4m65478.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
100.00	1702	111.00	29499	119.20	365	130.90	2030
101.00	12471	112.05	3332	119.95	972	132.20	1462
101.95	710	112.80	501	121.05	429	132.90	155
103.05	4587	113.10	439	122.00	5309	134.00	3066
104.00	7333	113.90	110	123.00	9723	135.05	10830
105.00	5950	114.15	280	124.05	3605	136.00	3583
106.00	2299	115.20	577	125.00	4011	137.10	4762
106.95	104667	115.95	4754	127.00	388395	137.80	779
108.00	16221	117.00	61056	128.00	30644	138.10	1039
109.00	2338	118.05	4179	129.00	132436	139.05	935
110.00	217933	118.95	682	130.00	10757	140.05	1329

Average of 3.209 to 3.220 min.: 4m65478.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
141.00	13919	152.00	22	160.00	4523	168.00	16454
142.05	5121	152.95	5057	161.00	7202	169.00	2797
143.00	3758	154.00	3365	161.70	496	169.80	249
144.05	778	155.00	9899	162.00	1726	169.95	799
144.95	993	156.00	14035	162.70	638	170.30	408
146.05	3326	157.00	2565	163.10	310	170.60	257
147.05	7405	157.50	852	163.85	693	170.85	1057
147.95	15792	157.70	508	164.10	684	172.00	2670
149.00	3488	158.00	2750	164.90	4873	173.05	4375
150.05	987	158.90	782	166.00	5295	174.00	6697
151.25	2250	159.10	1442	166.95	31026	175.00	14509

Average of 3.209 to 3.220 min.: 4m65478.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
175.95	4295	186.05	105560	198.00	878571	208.95	1308
177.00	5673	187.05	28925	199.00	59024	210.40	2154
178.05	2236	187.90	2921	199.95	5166	211.10	7943
179.00	24040	189.00	5390	201.30	2723	212.10	36
180.00	17587	189.95	747	201.60	2407	212.95	329
181.05	9216	190.95	2684	203.05	4259	213.20	162
182.10	1398	192.05	8435	204.05	28747	214.00	330
182.95	794	193.05	8414	205.10	49811	215.00	2127
183.25	824	194.05	3217	206.10	192146	216.10	4815
183.95	2014	195.05	2561	207.00	27096	217.00	46053
185.00	13290	196.10	27733	208.05	6408	218.00	6119

Average of 3.209 to 3.220 min.: 4m65478.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
219.00	1017	231.05	3434	240.90	705	250.30	454
220.10	611	232.00	1010	241.05	1830	250.90	151
221.00	50275	232.80	146	242.05	6509	251.05	811
223.00	11929	233.10	919	243.10	7287	251.90	1279

M4M2929SIM.M Tue May 24 08:56:55 2016 MANAGER Page: 0

224.05	114523	234.05	2486	244.10	92571	252.70	567
225.05	28821	235.05	3625	245.05	11417	253.05	3094
226.00	2224	236.00	2054	246.00	13879	253.60	1963
227.00	39680	237.05	3686	247.05	2831	254.00	1583
228.00	6091	237.95	733	248.10	996	255.00	432085
228.95	9718	239.00	1785	249.05	2185	256.05	62869
230.00	1466	240.00	1418	249.75	736	257.05	4841

Average of 3.209 to 3.220 min.: 4m65478.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
258.00	21315	268.80	75	277.05	13588	287.00	102
259.05	3040	269.00	278	277.95	2640	287.50	196
259.85	460	270.00	744	279.05	721	287.90	67
260.10	359	270.20	256	281.00	20	289.00	800
261.05	904	270.60	233	281.95	499	290.00	767
262.95	400	271.10	1430	282.90	1028	290.85	381
263.95	1095	272.05	1887	283.10	460	292.05	688
265.00	8058	273.05	14634	283.95	728	293.05	3798
265.95	2156	274.00	35701	284.20	203	294.00	1294
266.85	310	275.00	195413	285.05	2754	294.95	865
267.85	660	276.05	26776	286.00	653	296.00	47571

Average of 3.209 to 3.220 min.: 4m65478.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
297.05	7131	308.90	144	317.00	449	327.00	3176
298.05	454	309.05	254	317.20	323	328.00	1544
300.00	76	310.00	872	319.10	126	328.70	138
300.95	801	311.10	485	320.05	468	329.05	179
301.90	861	312.00	124	320.90	1067	330.00	88
303.05	6149	312.80	190	321.10	843	331.95	1829
304.05	1715	313.00	217	322.05	1550	333.05	2013
305.10	380	313.20	175	323.10	20584	334.05	11288
307.05	191	314.05	2420	324.05	3980	334.90	804
307.60	211	315.00	5614	324.95	273	335.10	2360
308.05	436	316.05	3500	326.05	492	336.10	450

Average of 3.209 to 3.220 min.: 4m65478.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
338.70	177	350.20	103	360.40	98	371.05	1784
339.05	251	350.80	94	361.35	231	372.10	11981
340.00	110	351.00	114	363.00	164	373.10	3241
341.05	1914	351.30	198	363.20	171	373.90	263
341.85	314	352.05	5635	363.50	316	376.70	80
342.10	359	353.05	3849	365.05	24512	377.00	280
342.90	116	354.10	6369	366.05	3697	383.05	3201
344.20	67	355.10	1071	367.00	241	384.00	679
346.05	4543	356.00	99	368.80	69	384.20	414
347.00	1000	356.20	70	369.20	69	384.95	356
349.90	158	359.00	578	370.00	896	390.05	1583

Average of 3.209 to 3.220 min.: 4m65478.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
391.10	1366	414.50	75	428.75	239	433.30	246
392.00	658	414.80	129	429.20	95	433.90	329
397.15	163	415.00	176	429.50	408	434.30	354
401.00	746	419.75	151	430.00	274	434.60	280
402.05	4536	421.05	6156	430.40	217	435.10	351
403.10	6964	422.05	5242	430.85	242	435.60	154
404.00	2515	423.10	39576	431.40	249	435.80	538
404.90	299	424.05	8043	432.00	270	436.40	418
410.00	177	425.05	898	432.35	528	437.05	436
410.70	87	427.05	191	432.60	130	437.55	306
413.40	71	427.60	116	432.90	285	437.95	278

Average of 3.209 to 3.220 min.: 4m65478.D\data.ms

M4M2929SIM.M Tue May 24 08:56:55 2016 MANAGER Page: 1

dftpp
Modified:subtracted

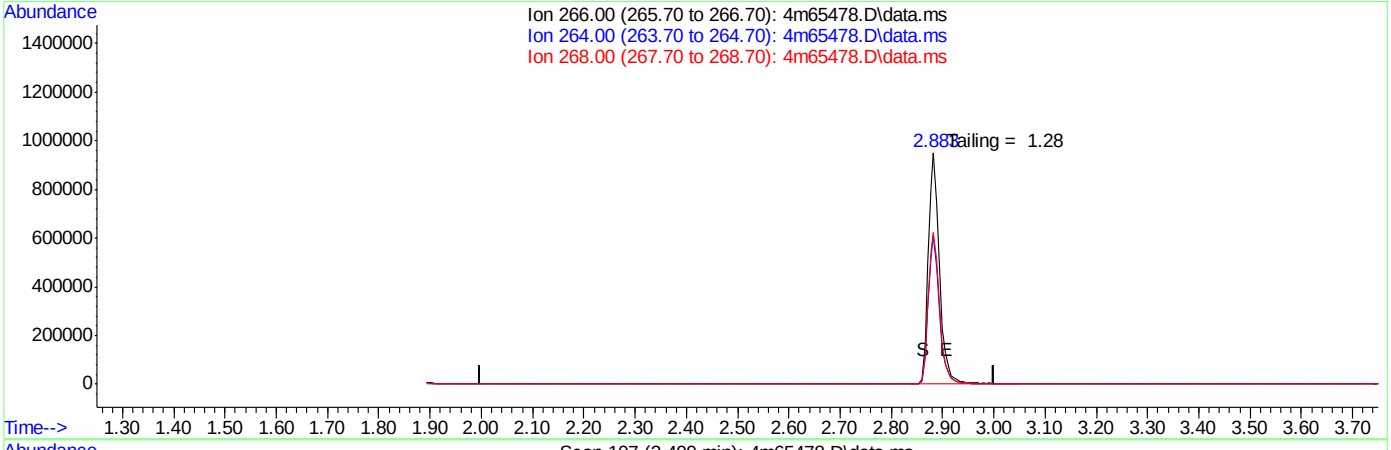
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
438.50	160						
439.10	376						
439.90	94						
441.10	119432						
442.10	803968						
443.10	160928						
444.05	13934						
444.95	562						
445.20	290						
446.20	67						

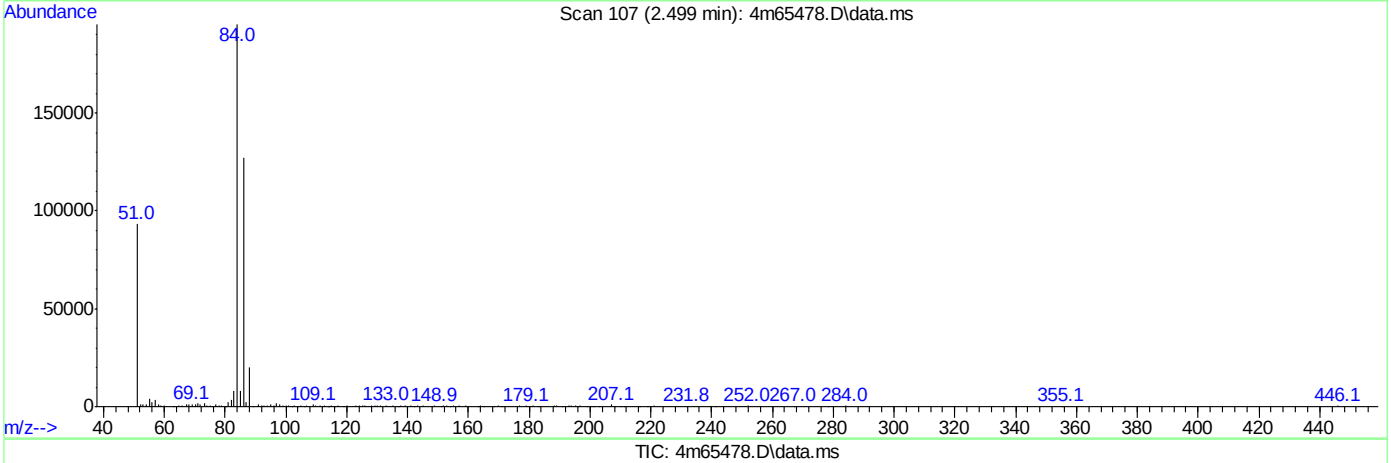
SGS ACCUTEST JC20098

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M2930\
Data File : 4m65478.D
Acq On : 24 May 2016 10:16 am
Operator : linseyk
Sample : dftpp
Misc : op93641a,e4m2930
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 24 10:21:49 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP4M.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Mon Jul 29 12:02:51 2013
Response via : Initial Calibration





TIC: 4m65478.D\data.ms

(1) pentachlorophenol (t)

2.500min (-2.500) 0.00ppb

response 0

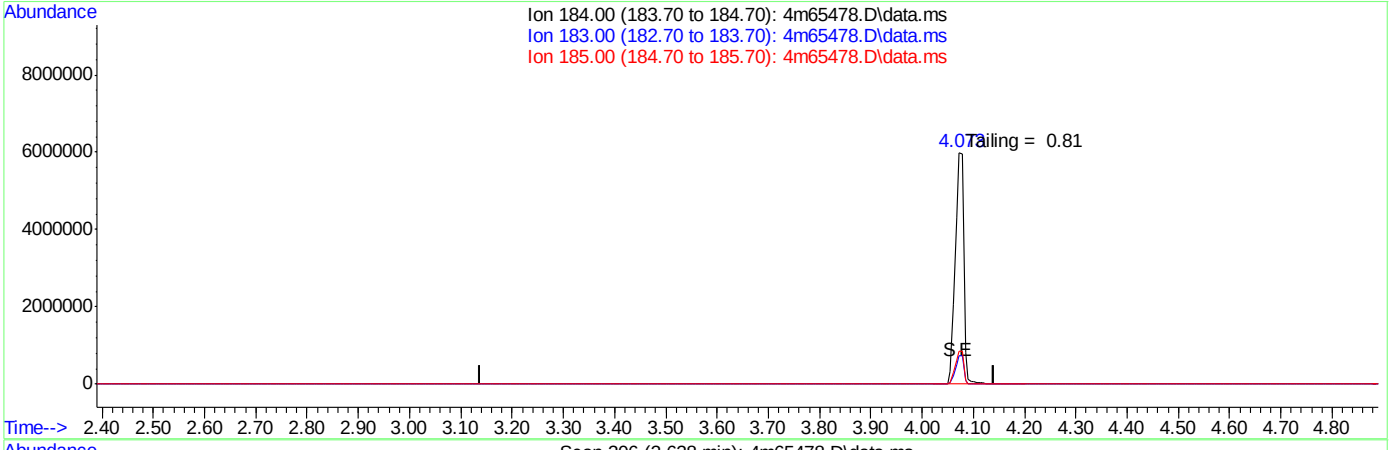
Ion	Exp%	Act%
266.00	100	0.00
264.00	58.00	0.00#
268.00	62.00	0.00#
0.00	0.00	0.00

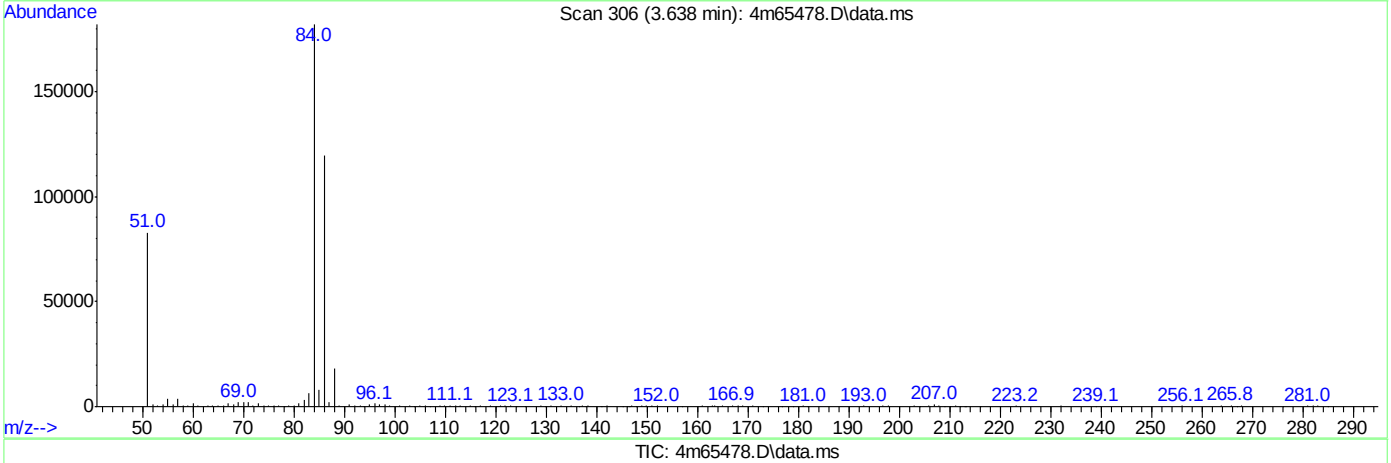
SGS ACCUTEST JC20098

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\E4M2930\
Data File : 4m65478.D
Acq On    : 24 May 2016  10:16 am
Operator  : linseyk
Sample    : dftpp
Misc      : op93641a,e4m2930
ALS Vial  : 1   Sample Multiplier: 1

Quant Time: May 24 10:21:49 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP4M.M
Quant Title  : Semi Volatile  GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Mon Jul 29 12:02:51 2013
Response via : Initial Calibration
```





TIC: 4m65478.D\data.ms

(2) benzidine (t)

3.640min (-3.640) 0.00ppb

response 0

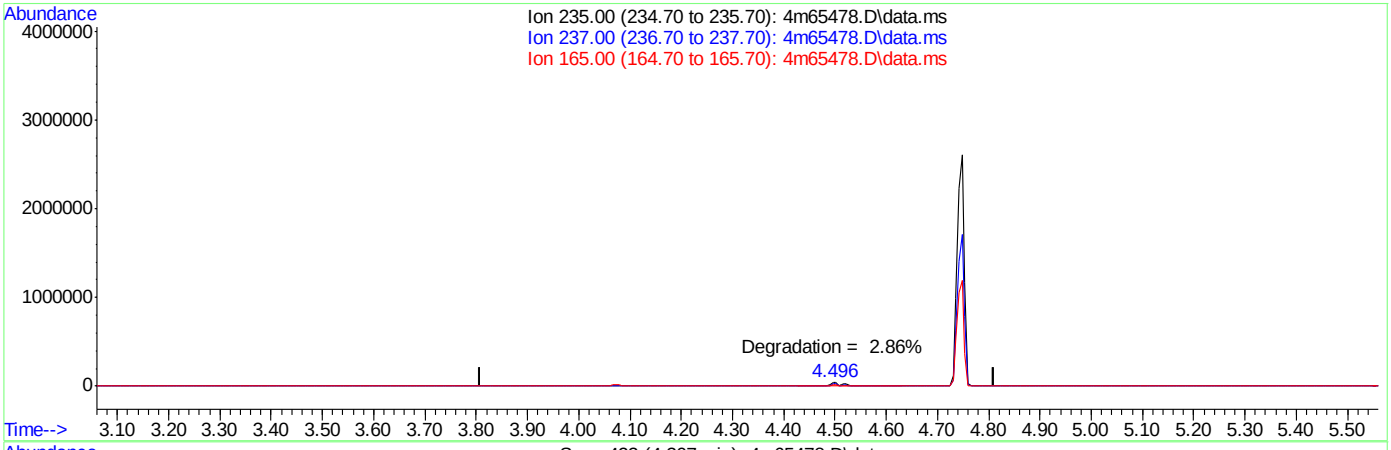
Ion	Exp%	Act%
184.00	100	0.00
183.00	10.60	0.00#
185.00	13.40	0.00#
0.00	0.00	0.00

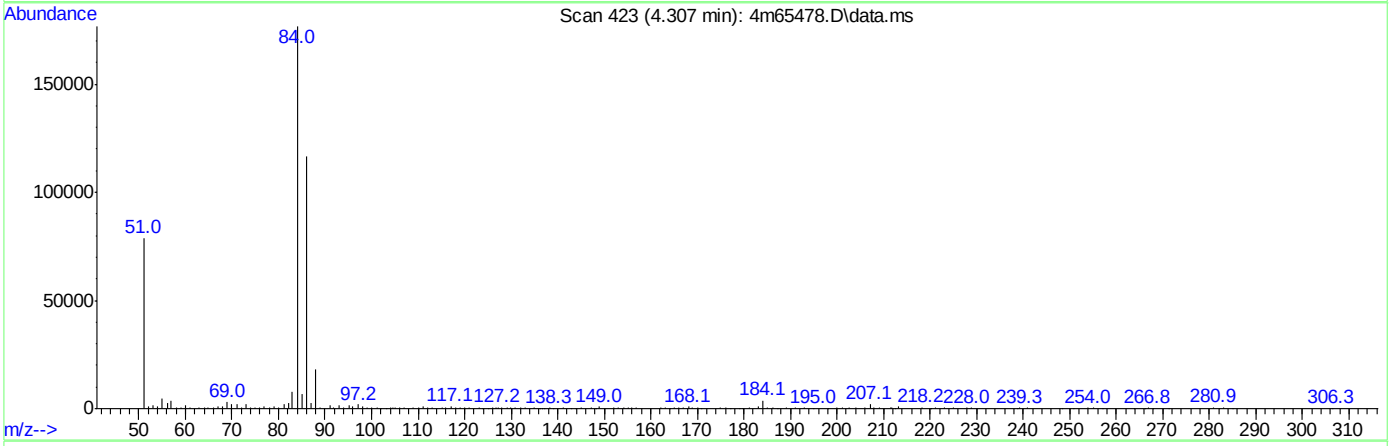
SGS ACCUTEST JC20098

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M2930\
Data File : 4m65478.D
Acq On : 24 May 2016 10:16 am
Operator : linseyk
Sample : dftpp
Misc : op93641a,e4m2930
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 24 10:21:49 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP4M.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Mon Jul 29 12:02:51 2013
Response via : Initial Calibration





TIC: 4m65478.D\data.ms

(3) ddt (t)

4.310min (-4.310) 0.00ppb

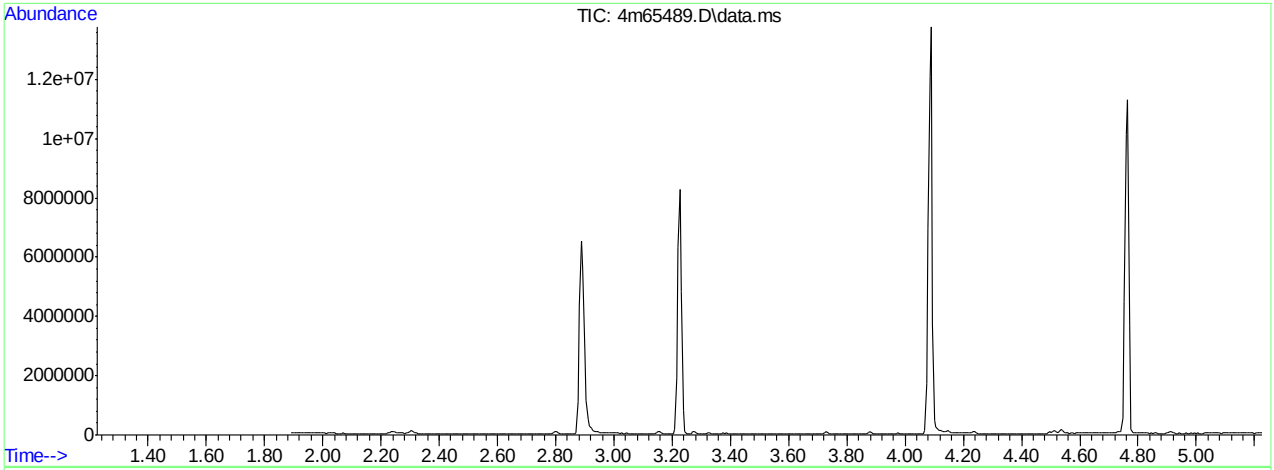
response 0

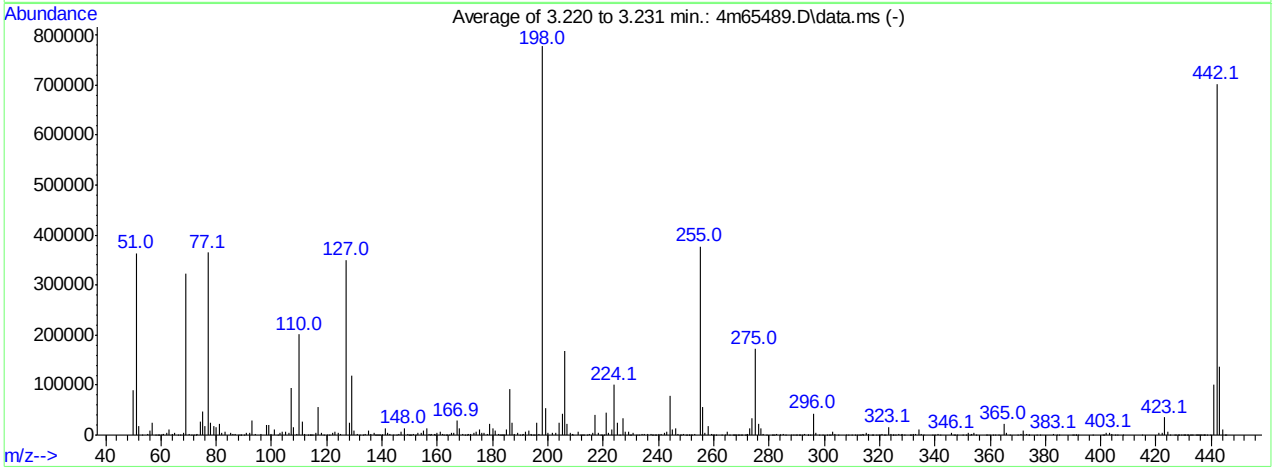
Ion	Exp%	Act%
235.00	100	0.00
237.00	63.70	0.00#
165.00	48.70	0.00#
0.00	0.00	0.00

DFTPP

Data File : C:\msdchem\1\DATA\E4M2931\4m65489.D Vial: 1
Acq On : 24 May 2016 4:07 pm Operator: linseyk
Sample : dftpp Inst : GCMS4M
Misc : op93641a,e4m2931 Multiplr: 1.00
MS Integration Params: events3.e

Method : C:\MSDCHEM\1\METHODS\DFTPP4M.M (ChemStation Integrator)
Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um





AutoFind: Scans 233, 234, 235; Background Corrected with Scan 228

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	46.9	364272	PASS
68	69	0.00	2	1.7	5391	PASS
69	198	0.00	100	41.5	322652	PASS
70	69	0.00	2	0.5	1494	PASS
127	198	40	60	45.0	349909	PASS
197	198	0.00	1	0.2	1880	PASS
198	198	100	100	100.0	777408	PASS
199	198	5	9	6.8	52872	PASS
275	198	10	30	22.1	171947	PASS
365	198	1	100	2.8	22042	PASS
441	443	0.01	100	73.9	101059	PASS
442	198	40	100	90.4	702741	PASS
443	442	17	23	19.4	136667	PASS

4m65489.D DFTPP4M.M Wed May 25 08:15:24 2016 MANAGER

Average of 3.220 to 3.231 min.: 4m65489.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
50.10	89019	60.90	1270	71.05	295	81.00	21632
51.05	364272	61.05	1726	72.00	372	81.95	5434
52.05	17623	62.00	4266	72.75	70	83.00	6008
53.00	977	63.05	11183	73.10	1752	85.00	5241
55.00	1389	64.05	1295	74.05	27370	86.00	2928
56.00	9189	65.10	5631	75.00	46739	86.95	2703
57.00	23630	66.00	736	76.05	17013	88.00	579
58.00	631	66.95	184	77.10	364863	88.90	294
58.80	196	68.05	5391	78.05	24090	89.05	503
59.10	573	69.00	322652	79.00	18863	89.95	264
59.95	175	70.00	1494	80.00	14796	91.00	4695

Average of 3.220 to 3.231 min.: 4m65489.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
92.00	4694	105.00	5984	114.60	180	125.00	3351
93.00	28907	106.10	3545	114.95	451	127.00	349909
94.00	2877	107.00	93991	116.10	4353	128.00	24554
96.00	1865	108.05	16500	117.00	55629	129.00	117843
98.00	21219	109.00	2265	118.05	4186	130.00	9379
99.00	20214	110.00	201192	118.95	924	131.00	1819
100.00	1842	111.00	26682	120.05	753	131.95	823
101.00	11827	112.05	3156	120.85	293	132.95	271
102.05	454	113.05	1021	122.00	4824	134.00	2712
103.05	4083	113.80	93	123.00	7113	135.05	9617
103.95	6907	114.05	320	124.00	4273	136.00	3241

Average of 3.220 to 3.231 min.: 4m65489.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
137.00	3928	144.00	1047	153.00	4406	161.80	1455
137.70	412	145.10	1101	153.95	3476	162.20	438
137.95	780	146.05	2580	155.00	8138	163.05	754
138.20	106	147.05	6015	156.00	14103	163.60	103
138.90	266	148.00	14221	157.00	2604	164.10	719
139.10	441	149.10	3204	157.20	537	164.95	4899
139.90	953	149.80	346	157.95	2784	166.05	4076
140.10	275	150.00	940	158.90	730	166.95	28713
141.00	12992	150.70	385	159.05	1551	168.00	14565
142.00	4528	151.20	1914	160.00	4389	169.10	2189
142.95	3073	152.05	1091	161.05	6166	170.05	1175

Average of 3.220 to 3.231 min.: 4m65489.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
170.65	638	181.10	8216	189.00	4605	196.80	1880
171.05	1453	182.05	1432	189.95	1043	198.00	777408
171.90	2318	182.70	336	190.65	764	199.00	52872
173.05	3826	183.10	480	191.15	2268	199.95	3879
174.00	6881	183.40	252	192.00	7114	201.45	4315
175.05	10983	183.90	470	193.00	8405	202.95	3976
176.10	4304	184.10	727	193.90	632	204.00	23656
177.00	4691	185.10	11705	194.05	1429	205.10	41603
178.05	2791	186.00	90944	194.80	865	206.10	168141
179.00	21575	187.00	25040	195.10	687	207.05	22686
180.00	14600	188.00	2641	196.05	24306	208.10	4913

Average of 3.220 to 3.231 min.: 4m65489.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
208.90	487	218.05	5608	228.05	5731	237.70	116
209.05	1338	219.00	618	229.05	7528	238.05	522
211.00	6962	219.60	264	229.70	49	238.75	931
211.80	562	220.10	1150	230.00	1167	239.00	689

M4M2930SIM.M Tue May 24 16:01:38 2016 MANAGER Page: 0

212.20	325	221.00	45128	231.00	3838	239.95	1291
212.60	458	221.70	4288	232.10	627	241.00	2027
213.15	584	223.05	10942	233.00	702	242.05	4720
214.15	421	224.05	100400	234.05	1946	243.05	6283
215.00	1702	225.05	25461	235.00	2912	244.10	79421
216.05	4011	226.00	649	236.05	1745	245.05	10796
217.00	39915	227.00	34355	237.10	2970	246.05	12522

Average of 3.220 to 3.231 min.: 4m65489.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
247.05	2592	255.00	377216	265.85	686	272.00	1345
247.90	757	256.00	56005	266.90	134	273.00	12666
248.10	323	256.95	4242	267.20	87	274.00	33797
249.00	3320	258.00	17555	267.75	279	275.00	171947
249.85	637	259.05	2597	268.10	180	276.05	22312
250.30	162	259.80	73	268.80	126	277.00	12617
250.95	384	260.05	593	269.00	107	278.00	2192
251.25	619	261.00	929	269.80	81	279.00	370
251.80	356	262.85	162	270.10	193	280.90	297
252.00	1184	263.90	621	271.20	1143	281.50	72
253.15	1785	265.05	7782	271.60	347	282.05	409

Average of 3.220 to 3.231 min.: 4m65489.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
282.90	1543	292.10	583	302.05	691	313.90	493
283.90	439	293.05	3368	303.05	6195	314.10	1761
284.10	639	293.90	291	304.00	1710	315.05	5027
285.00	2638	294.15	806	305.00	185	316.05	3037
286.10	437	295.00	384	308.00	1073	317.00	611
287.90	108	296.00	43059	308.85	523	317.80	127
288.95	733	297.00	5099	310.00	664	318.90	125
289.80	151	297.95	354	311.00	186	319.70	114
290.05	450	299.20	83	311.75	201	320.20	132
290.85	267	301.00	622	312.60	148	321.00	2190
291.05	390	301.80	170	313.05	447	321.80	320

Average of 3.220 to 3.231 min.: 4m65489.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
322.10	689	331.30	77	346.85	482	359.05	308
323.10	16855	332.00	1491	347.10	210	359.90	87
324.10	3378	333.00	2026	348.20	74	361.10	223
324.85	212	334.05	10281	350.20	144	361.80	97
325.10	175	335.05	3170	351.10	291	363.15	280
325.80	334	335.90	294	352.05	5046	365.00	22042
327.00	2932	339.00	404	352.90	1112	366.00	3563
327.70	359	340.00	87	353.10	2930	366.90	290
328.05	1523	341.05	1901	354.10	5134	369.95	539
329.05	287	342.05	699	354.95	1016	371.00	1457
330.90	203	346.05	3477	358.40	101	372.05	9707

Average of 3.220 to 3.231 min.: 4m65489.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
373.05	2633	391.10	434	414.95	238	429.80	157
373.80	86	391.95	981	421.00	5056	430.20	216
374.10	74	396.95	190	422.05	4770	430.45	222
377.00	296	400.70	201	423.10	34965	431.10	104
378.10	110	401.10	351	424.10	6857	431.45	265
383.05	3034	402.05	3603	425.10	829	432.20	254
383.95	906	403.05	4998	426.60	251	432.80	202
384.95	209	404.05	2174	427.30	182	433.00	161
389.70	156	405.05	264	428.00	93	434.45	492
390.00	883	405.90	82	428.25	215	434.70	231
390.85	559	408.00	93	428.95	233	435.10	412

Average of 3.220 to 3.231 min.: 4m65489.D\data.ms

M4M2930SIM.M Tue May 24 16:01:38 2016 MANAGER

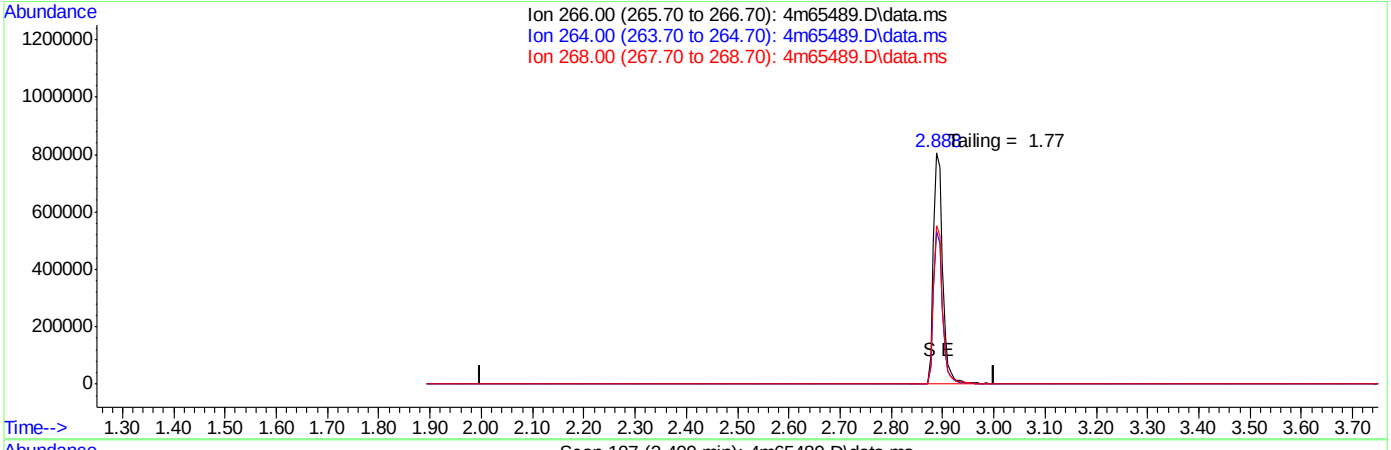
dftpp
Modified:subtracted

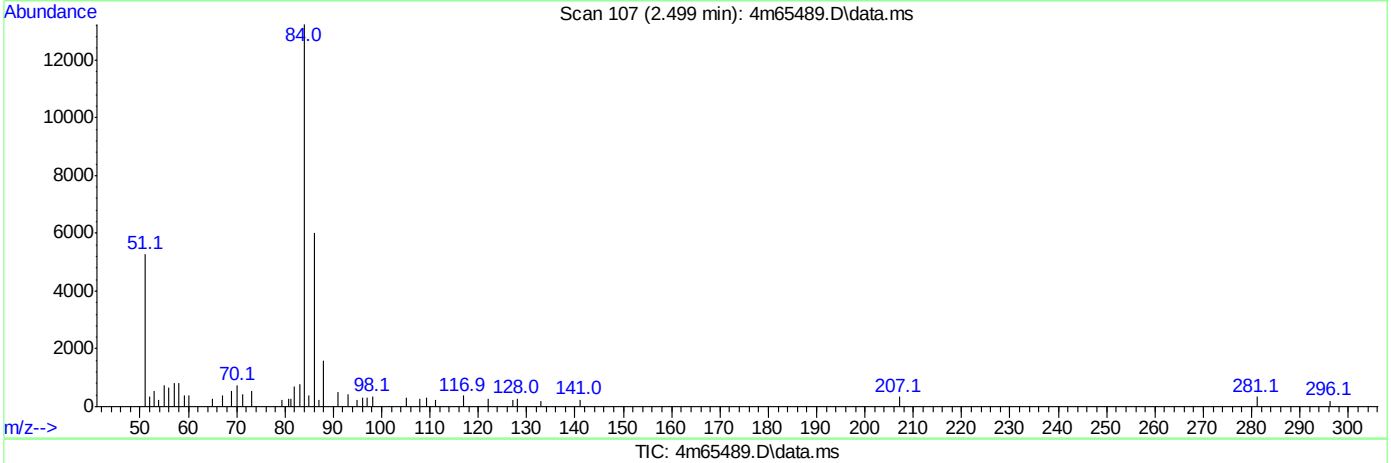
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
435.70	287	444.05	12372				
436.20	257	444.90	399				
436.60	322	445.20	404				
437.10	159						
437.40	192						
437.80	139						
438.50	298						
439.50	68						
441.10	101059						
442.10	702741						
443.10	136667						

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M2931\
Data File : 4m65489.D
Acq On : 24 May 2016 4:07 pm
Operator : linseyk
Sample : dftpp
Misc : op93641a,e4m2931
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 24 16:13:25 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP4M.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Mon Jul 29 12:02:51 2013
Response via : Initial Calibration





TIC: 4m65489.D\data.ms

(1) pentachlorophenol (t)

2.500min (-2.500) 0.00ppb

response 0

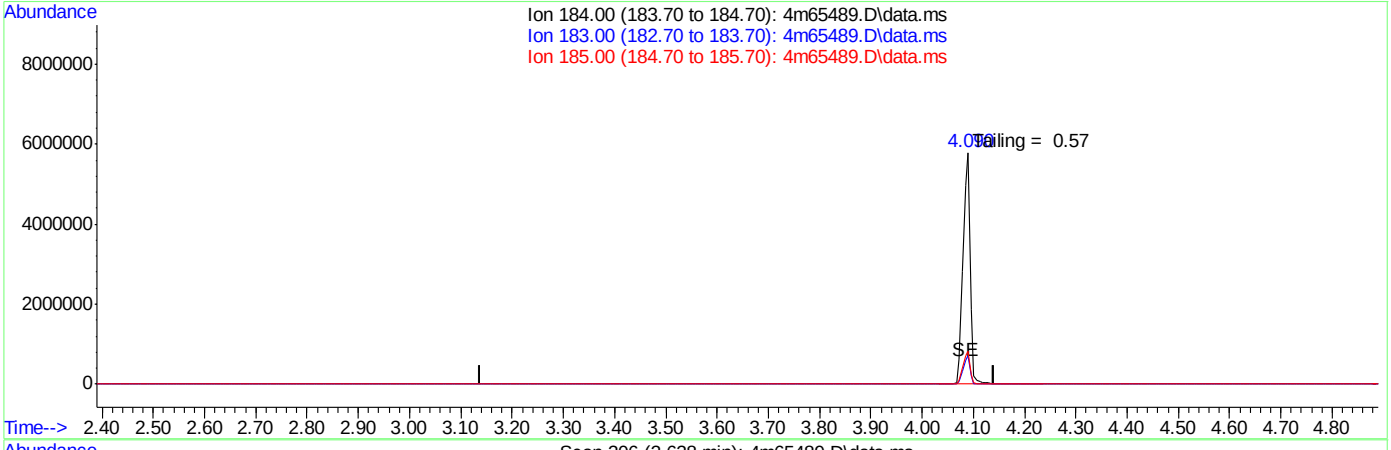
Ion	Exp%	Act%
266.00	100	0.00
264.00	58.00	0.00#
268.00	62.00	0.00#
0.00	0.00	0.00

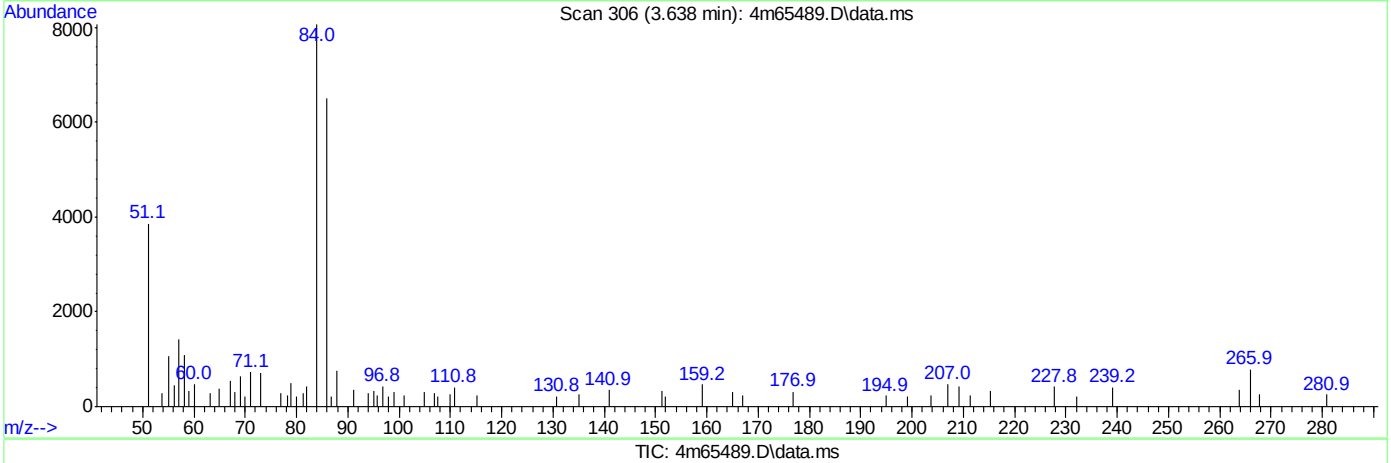
SGS ACCUTEST JC20098

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M2931\
Data File : 4m65489.D
Acq On : 24 May 2016 4:07 pm
Operator : linseyk
Sample : dftpp
Misc : op93641a,e4m2931
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 24 16:13:25 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP4M.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Mon Jul 29 12:02:51 2013
Response via : Initial Calibration





TIC: 4m65489.D\data.ms

(2) benzidine (t)

3.640min (-3.640) 0.00ppb

response 0

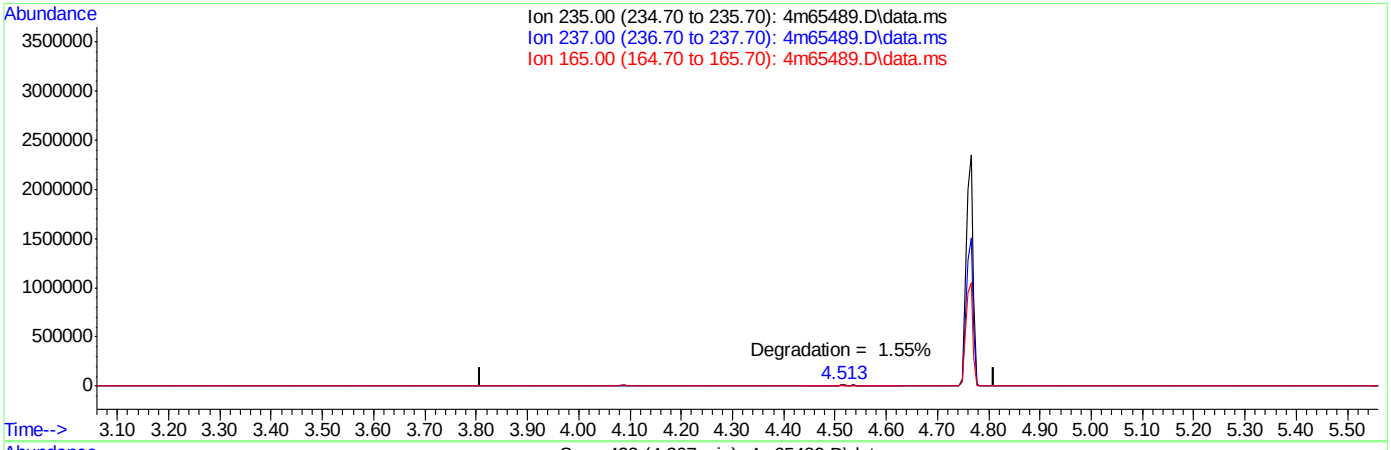
Ion	Exp%	Act%
184.00	100	0.00
183.00	10.60	0.00#
185.00	13.40	0.00#
0.00	0.00	0.00

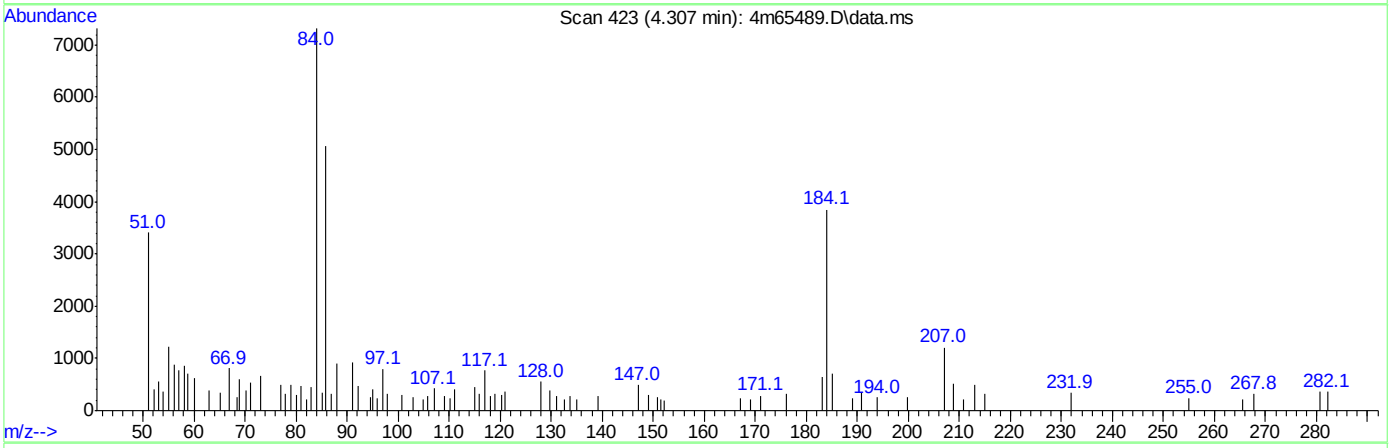
SGS ACCUTEST JC20098

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M2931\
Data File : 4m65489.D
Acq On : 24 May 2016 4:07 pm
Operator : linseyk
Sample : dftpp
Misc : op93641a,e4m2931
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 24 16:13:25 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP4M.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Mon Jul 29 12:02:51 2013
Response via : Initial Calibration





TIC: 4m65489.D\data.ms

(3) ddt (t)

4.310min (-4.310) 0.00ppb

response 0

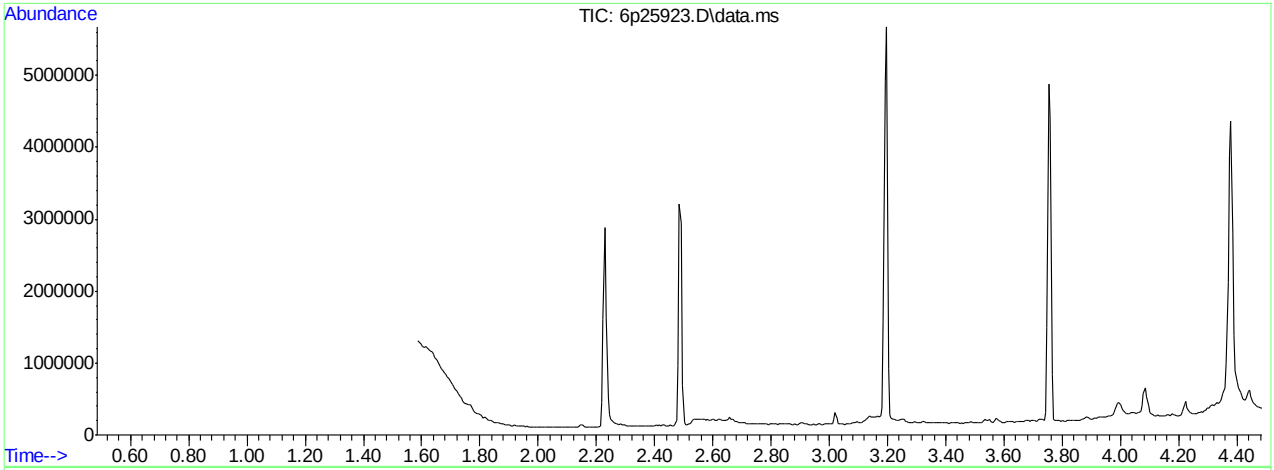
Ion	Exp%	Act%
235.00	100	0.00
237.00	63.70	0.00#
165.00	48.70	0.00#
0.00	0.00	0.00

SGS ACCUTEST JC20098

DFTPP

Data File : C:\msdchem\1\DATA\e6p1209\6p25923.D Vial: 1
Acq On : 13 May 2016 9:12 am Operator: ariellec
Sample : dftpp Inst : MS6P
Misc : op93693,e6p1209 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5 15m x .25mm x .25um



AutoFind: Scans 168, 169, 170; Background Corrected with Scan 164

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	54.8	118557	PASS
68	69	0.00	2	0.9	1119	PASS
69	198	0.00	100	55.7	120494	PASS
70	69	0.00	2	0.8	996	PASS
127	198	40	60	58.3	126024	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	216184	PASS
199	198	5	9	6.7	14389	PASS
275	198	10	30	29.9	64576	PASS
365	198	1	100	4.2	9081	PASS
441	443	0.10	100	79.7	28875	PASS
442	198	40	100	85.9	185597	PASS
443	442	17	23	19.5	36212	PASS

6p25923.D DFTPP6P.M Fri May 13 10:08:38 2016 ACLIMS

Average of 2.480 to 2.491 min.: 6p25923.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.85	599	48.90	1879	59.95	544	72.05	340
36.90	520	50.00	31979	61.00	1665	73.00	711
37.90	1760	50.95	118557	62.00	1534	74.00	13490
38.95	9007	51.95	5318	63.00	4788	74.95	18975
39.95	278	52.95	257	63.95	758	76.05	7677
41.00	1157	54.00	57	64.95	2117	76.95	131730
41.90	342	54.95	1990	66.00	79	77.95	8392
43.00	599	55.95	4006	67.00	729	78.95	9133
43.90	5	57.00	7144	68.00	1119	79.90	7200
44.85	333	57.90	574	68.90	120494	80.90	9026
48.05	1198	58.85	90	70.00	996	81.95	3079

Average of 2.480 to 2.491 min.: 6p25923.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
83.00	1671	95.90	836	107.00	37530	117.95	2117
83.90	42	97.05	1116	107.95	6227	119.00	401
85.00	2323	97.95	11905	109.00	631	119.20	138
85.90	3267	98.90	8441	109.90	67466	119.80	283
86.90	2059	99.90	956	110.95	9749	119.90	126
87.90	177	100.90	5182	112.00	1504	121.90	2435
88.90	506	101.85	135	112.95	279	122.95	3559
90.90	2325	102.95	1598	114.00	141	123.95	1720
91.95	1834	103.95	3399	114.95	298	124.80	440
92.95	14816	104.90	3378	116.00	2349	125.00	1884
93.90	576	105.95	1251	116.90	30820	127.00	126024

Average of 2.480 to 2.491 min.: 6p25923.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
128.00	9771	138.90	271	148.95	1559	158.90	1041
128.90	50493	139.95	760	149.95	427	159.90	1888
129.95	4445	140.90	6411	151.05	1117	160.95	2862
130.95	1077	141.95	2196	151.80	294	161.90	829
131.95	850	142.80	246	152.00	180	163.00	245
132.60	109	143.00	1540	152.95	1967	163.95	356
133.90	1286	143.80	165	153.95	1339	164.90	2434
134.90	3996	144.90	453	154.95	3205	165.95	2088
135.95	1532	145.90	1486	155.95	5768	167.00	12139
137.00	2084	146.95	3382	157.00	1246	168.00	5837
137.90	528	147.90	6789	157.90	1249	168.80	100

Average of 2.480 to 2.491 min.: 6p25923.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
168.95	945	176.85	2559	187.00	9759	196.00	7878
169.40	126	178.00	612	188.00	1114	197.90	216184
169.95	635	178.95	8222	188.90	1899	198.90	14389
170.95	534	179.95	5682	189.80	253	199.80	178
171.90	970	180.90	2603	190.10	161	200.00	1295
172.90	858	182.10	598	190.95	1167	200.90	119
173.10	375	182.80	131	191.90	3018	201.30	168
173.70	163	183.05	334	192.80	329	201.45	1139
174.00	2285	183.95	726	192.95	2819	201.90	206
175.00	5193	185.05	4223	194.00	976	202.90	1701
175.95	1965	186.00	32368	194.95	718	203.95	8917

Average of 2.480 to 2.491 min.: 6p25923.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
205.00	14499	214.10	100	224.00	31075	235.00	1070
206.00	61669	214.80	133	225.00	8486	236.05	642
206.95	7820	214.95	932	226.00	849	236.90	1100
207.95	2281	216.10	531	226.90	12904	237.75	232

208.70	125	216.90	16465	227.95	2052	239.00	799
208.85	771	217.95	1979	228.95	2683	239.90	253
210.00	474	218.80	105	229.95	567	240.10	322
210.20	597	219.70	287	231.00	1164	240.80	517
210.95	2383	220.95	13024	231.90	106	241.00	565
211.40	154	221.90	1180	232.90	371	241.90	1939
211.95	459	222.95	3647	233.95	1071	242.80	223

Average of 2.480 to 2.491 min.: 6p25923.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
243.00	1909	252.95	721	263.90	232	272.95	4537
244.00	24659	255.00	129861	264.90	3485	274.00	11357
244.95	3464	255.95	18778	265.70	208	275.00	64576
246.00	5303	256.95	1414	266.00	303	276.00	8816
246.90	1227	257.80	721	266.80	101	276.95	5314
247.90	71	258.00	6919	269.80	209	277.95	1062
248.95	863	258.90	1002	270.00	122	279.10	160
250.05	158	259.95	342	270.50	155	281.05	256
250.95	429	261.00	138	271.10	260	282.20	104
252.00	330	261.80	158	271.50	108	282.95	746
252.80	117	263.65	264	271.90	302	283.70	154

Average of 2.480 to 2.491 min.: 6p25923.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
284.00	213	296.90	2350	311.10	108	324.80	137
284.80	543	298.10	114	312.60	245	325.10	131
285.00	322	301.00	148	313.10	162	326.90	1239
285.95	285	302.05	386	314.05	915	327.95	602
289.00	114	303.00	2292	314.95	2158	332.00	639
289.80	105	303.85	368	315.90	1066	332.90	652
291.90	108	304.10	277	316.90	317	333.20	357
292.90	1271	307.90	272	320.90	701	333.95	4106
293.95	398	308.90	138	321.90	452	334.90	968
295.10	104	309.40	123	322.95	5907	339.80	108
296.00	16214	310.00	306	324.05	904	340.95	939

Average of 2.480 to 2.491 min.: 6p25923.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
341.90	182	361.20	126	377.10	135	403.80	220
345.70	190	362.60	116	382.80	441	404.00	586
345.90	1746	363.40	129	383.00	681	404.90	101
346.90	299	363.90	295	383.85	389	419.80	153
350.80	318	364.95	9081	389.60	121	420.10	108
352.05	1643	365.90	1368	390.10	380	420.95	1742
353.00	1276	369.30	126	390.95	347	421.95	1764
353.95	2103	369.95	226	391.90	224	423.00	12369
354.90	456	370.80	176	400.80	155	424.00	2467
360.00	318	372.00	4002	402.00	1508	425.10	225
360.80	105	372.95	792	403.00	2137	428.30	101

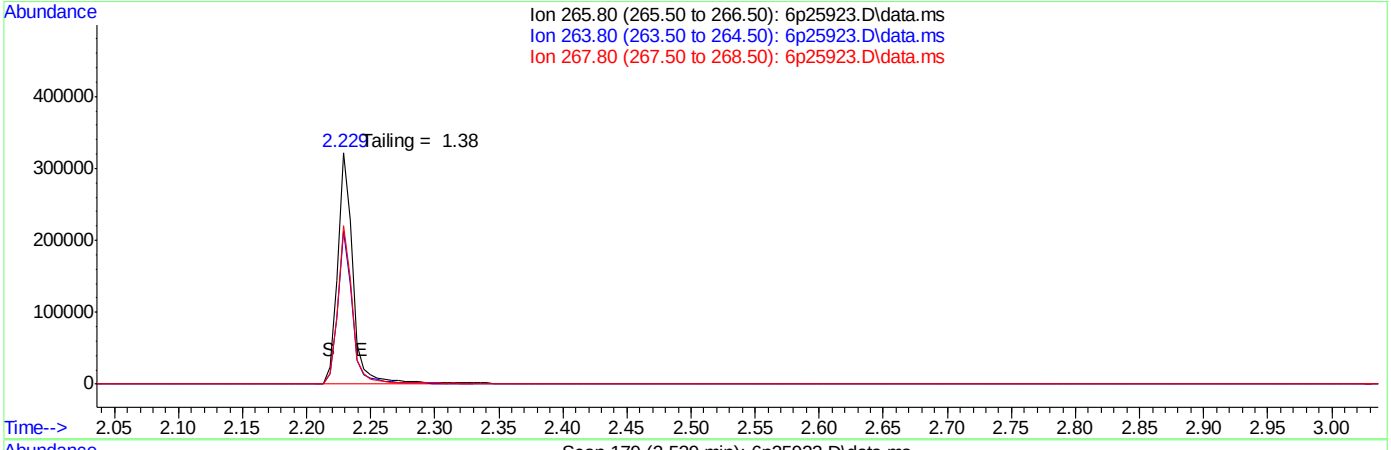
Average of 2.480 to 2.491 min.: 6p25923.D\data.ms
dftpp
Modified:subtracted

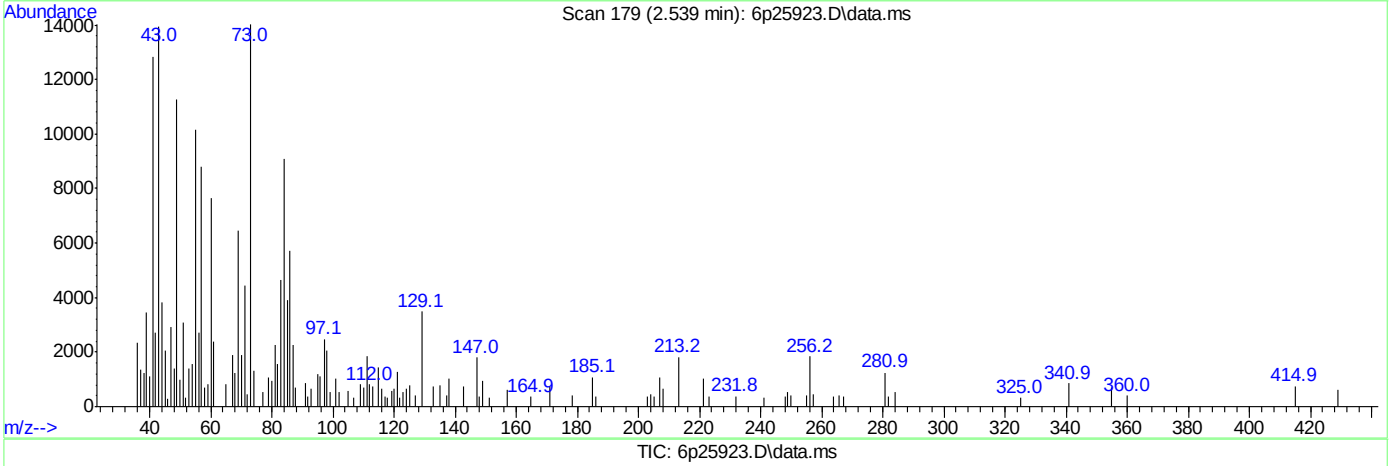
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
431.40	159	443.00	36212				
432.30	103	444.05	3362				
434.60	119	444.70	101				
435.90	128	445.00	193				
436.95	272						
437.30	185						
437.65	477						
438.35	475						
439.40	381						
441.05	28875						
442.00	185597						

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25923.D
Acq On : 13 May 2016 9:12 am
Operator : ariellec
Sample : dftpp
Misc : op93693,e6p1209
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 13 09:17:30 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M
Quant Title : Semi Volatile GC/MS, ZB-5 15m x .25mm x .25um
QLast Update : Tue Apr 05 12:41:26 2016
Response via : Initial Calibration





TIC: 6p25923.D\data.ms

(1) Pentachlorophenol (t)

2.536min 0.00ppb d

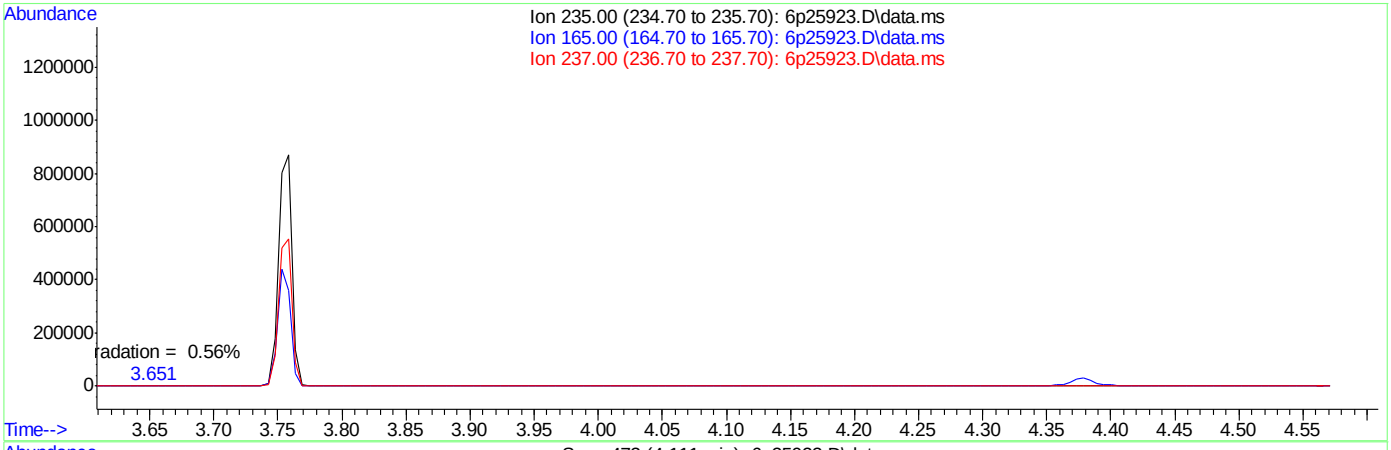
response 0

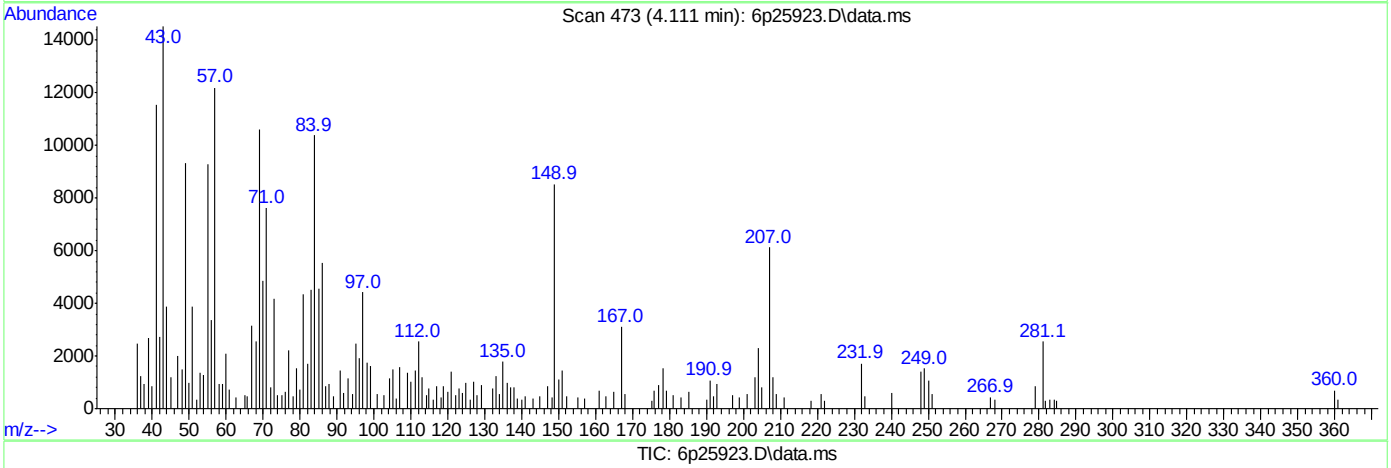
Ion	Exp%	Act%
265.80	100	0.00
263.80	62.70	0.00
267.80	62.60	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25923.D
Acq On : 13 May 2016 9:12 am
Operator : ariellec
Sample : dftpp
Misc : op93693,e6p1209
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 13 09:17:30 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M
Quant Title : Semi Volatile GC/MS, ZB-5 15m x .25mm x .25um
QLast Update : Tue Apr 05 12:41:26 2016
Response via : Initial Calibration





TIC: 6p25923.D\data.ms

(3) PP-DDT (t)

4.109min (-4.109) 0.00ppb

response 0

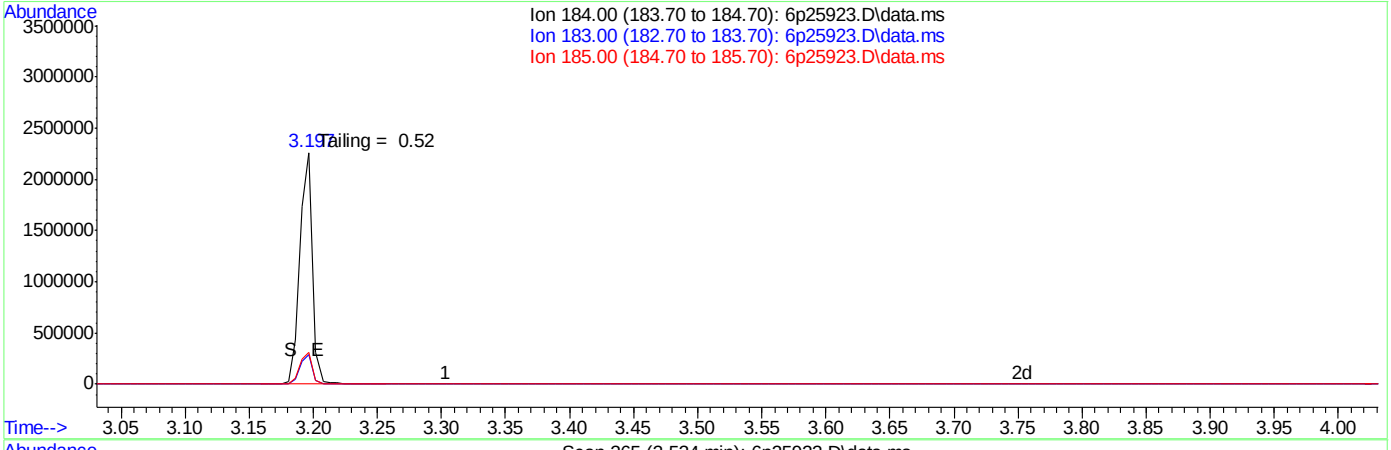
Ion	Exp%	Act%
235.00	100	0.00
165.00	93.70	0.00#
237.00	85.60	0.00#
0.00	0.00	0.00

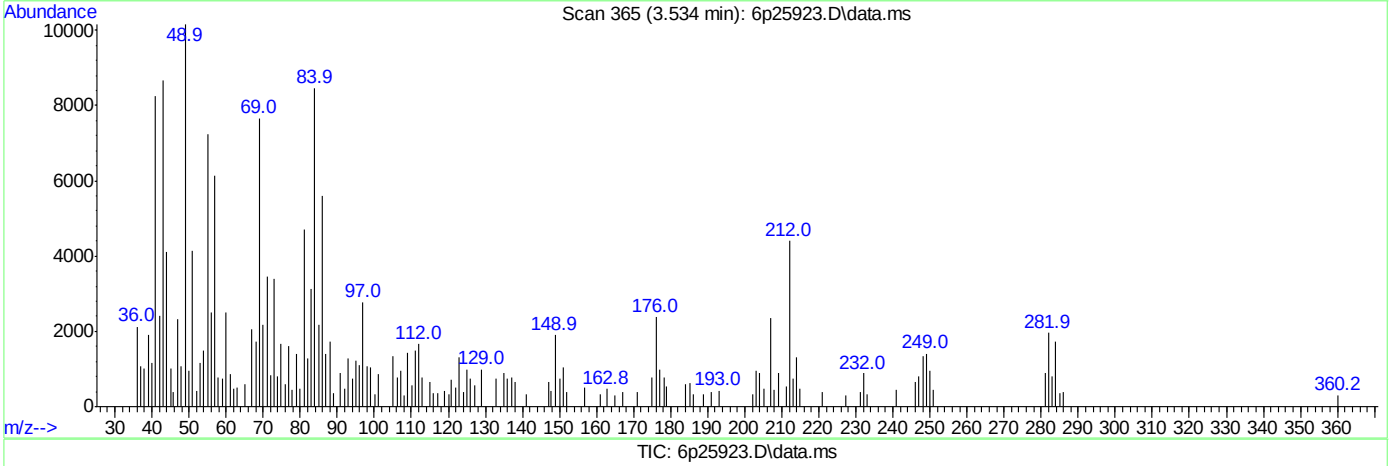
SGS ACCUTEST JC20098

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25923.D
Acq On : 13 May 2016 9:12 am
Operator : ariellec
Sample : dftpp
Misc : op93693,e6p1209
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 13 09:17:30 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M
Quant Title : Semi Volatile GC/MS, ZB-5 15m x .25mm x .25um
QLast Update : Tue Apr 05 12:41:26 2016
Response via : Initial Calibration





TIC: 6p25923.D\data.ms

(2) Benzidine (t)

3.531min 0.00ppb d

response 0

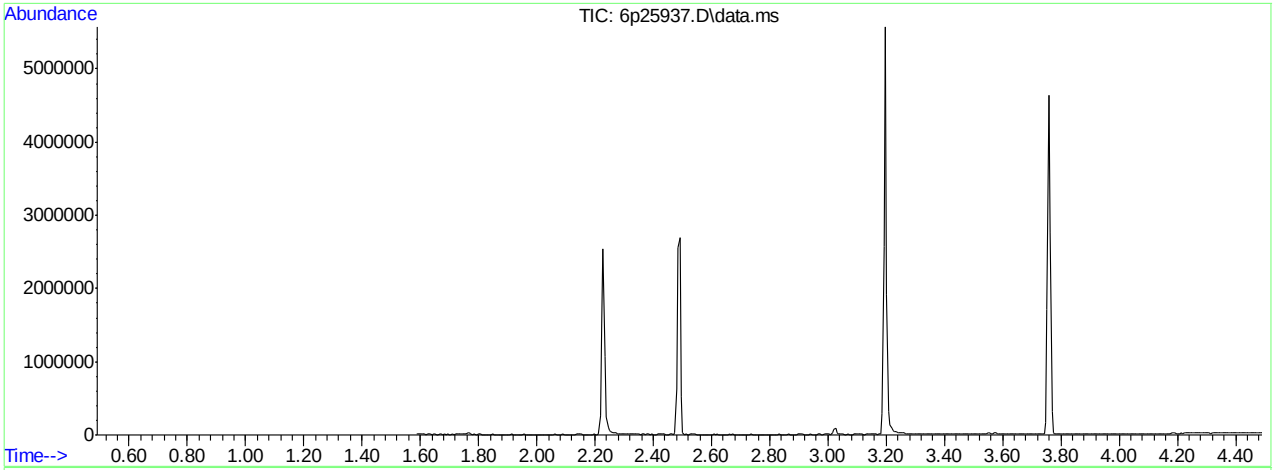
Ion	Exp%	Act%
184.00	100	0.00
183.00	11.10	0.00
185.00	13.90	0.00
0.00	0.00	0.00

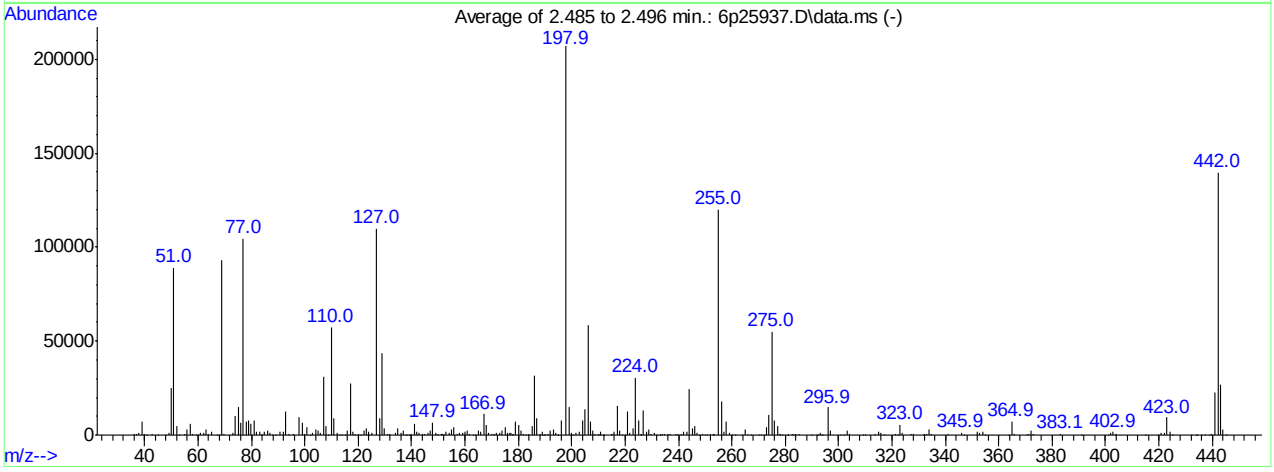
SGS ACCUTEST JC20098

DFTPP

Data File : C:\msdchem\1\DATA\e6p1210\6p25937.D Vial: 1
Acq On : 13 May 2016 2:25 pm Operator: ariellec
Sample : dftpp Inst : MS6P
Misc : op93693,e6p1210 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5 15m x .25mm x .25um





AutoFind: Scans 169, 170, 171; Background Corrected with Scan 164

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	43.1	89165	PASS
68	69	0.00	2	0.2	207	PASS
69	198	0.00	100	45.0	93133	PASS
70	69	0.00	2	0.4	404	PASS
127	198	40	60	53.1	109826	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	206826	PASS
199	198	5	9	7.2	14852	PASS
275	198	10	30	26.6	54986	PASS
365	198	1	100	3.5	7287	PASS
441	443	0.10	100	84.5	22871	PASS
442	198	40	100	67.5	139682	PASS
443	442	17	23	19.4	27080	PASS

6p25937.D DFTPP6P.M Mon May 16 18:07:42 2016 ACLIMS

Average of 2.485 to 2.496 min.: 6p25937.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.90	429	50.95	89165	63.00	3056	77.00	104411
36.90	321	52.00	4694	63.95	569	78.00	7017
37.90	1193	52.90	101	65.00	1542	78.95	7676
39.00	7184	55.00	674	67.00	225	79.95	5719
39.90	599	55.90	2803	67.90	207	80.95	7705
40.90	80	56.95	5868	68.90	93133	81.90	1906
42.95	349	57.90	350	69.90	404	82.95	1772
45.00	110	59.00	114	73.00	1071	83.90	354
47.90	132	60.00	114	74.00	10437	84.90	1826
48.95	1065	60.95	1311	75.00	14815	85.90	2349
50.00	24953	61.95	1143	76.00	6302	86.95	1029

Average of 2.485 to 2.496 min.: 6p25937.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
87.95	243	102.00	107	113.00	238	123.70	166
88.85	216	102.90	1407	114.00	119	123.95	1646
90.90	1655	103.95	3019	114.90	154	124.95	1318
91.90	1994	104.90	2483	116.05	2342	127.00	109826
92.90	12470	106.00	1116	116.95	27473	128.00	8787
93.90	820	107.00	31092	117.90	1654	129.00	43395
95.90	613	108.00	4678	119.00	328	129.95	3482
98.00	9454	108.90	133	119.90	393	130.85	690
98.90	6815	110.00	57418	120.80	174	131.85	324
99.95	787	111.00	8759	122.00	2437	134.00	1153
100.90	3910	112.00	1123	122.95	3368	134.90	3323

Average of 2.485 to 2.496 min.: 6p25937.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
135.90	1505	146.00	1205	155.90	4386	166.95	11095
137.00	2125	147.00	2562	156.85	799	168.00	5612
137.75	310	147.90	6660	157.90	1056	168.95	963
138.10	117	148.90	1394	159.00	934	169.95	580
138.95	287	149.95	387	159.95	1629	170.80	467
139.95	687	151.00	754	160.95	2553	171.85	927
140.95	6203	151.60	400	161.85	799	172.95	1440
141.95	1635	152.00	263	162.80	100	173.95	2278
142.95	1337	152.90	1708	163.70	286	175.00	4022
143.90	348	154.00	1499	164.90	2182	176.00	1379
144.85	348	155.00	3122	166.00	1926	176.80	1134

Average of 2.485 to 2.496 min.: 6p25937.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
177.00	1259	187.00	8871	195.00	108	206.95	7229
177.70	128	187.95	763	196.00	7586	207.95	2114
178.00	877	188.90	1773	197.90	206826	208.90	398
178.90	7073	189.10	135	198.90	14852	209.90	815
180.00	5572	189.80	249	199.95	1283	210.30	124
180.95	2614	190.00	137	200.50	142	210.60	804
181.95	426	190.90	811	201.45	1456	210.95	1781
182.70	283	191.95	2667	202.90	1710	211.70	215
183.95	765	193.00	3137	204.00	8006	212.10	201
185.00	4619	194.00	933	205.00	13566	214.80	332
186.00	31574	194.80	259	206.00	58437	215.00	344

Average of 2.485 to 2.496 min.: 6p25937.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
215.95	1572	226.00	109	235.90	816	247.85	240
216.95	15321	226.95	13030	236.95	843	248.95	872
217.90	2153	227.90	2107	238.90	586	249.80	154
218.90	167	228.95	2788	239.95	491	250.80	260

219.90	275	229.85	441	240.95	529	251.85	418
221.00	12574	230.95	1011	241.95	1575	252.90	273
221.70	1388	231.80	125	242.95	1814	253.10	401
222.95	3653	233.00	189	244.00	24313	253.30	117
224.00	30697	233.20	134	245.05	3339	255.00	120093
225.00	7819	233.90	810	245.90	4921	256.00	17738
225.80	385	234.85	912	246.90	943	256.90	1635

Average of 2.485 to 2.496 min.: 6p25937.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
257.95	7042	273.00	4171	283.10	107	300.80	111
258.90	1312	273.95	10917	283.95	364	301.90	122
260.00	127	275.00	54986	284.95	895	303.00	2201
261.00	105	275.95	7858	289.80	143	304.00	647
263.90	114	276.95	4721	291.80	112	309.00	120
264.90	3045	277.80	306	292.10	162	310.00	124
266.00	274	278.00	597	293.00	1109	313.90	859
267.10	118	279.00	168	293.70	130	314.95	1643
270.20	111	280.90	133	293.90	241	315.95	1256
270.90	304	281.10	138	295.95	14871	316.90	114
272.20	100	282.80	525	296.95	2195	321.05	434

Average of 2.485 to 2.496 min.: 6p25937.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
322.00	197	345.95	1376	371.90	2702	420.95	1250
323.00	5552	346.90	123	372.95	788	421.90	433
323.95	924	352.00	1641	383.05	848	422.20	1441
326.95	907	352.90	1455	390.95	243	423.00	9384
327.95	573	354.00	1759	401.10	180	424.00	1854
331.70	121	354.85	304	401.90	1114	425.05	288
332.05	361	363.80	149	402.85	1518	432.10	130
332.85	663	364.90	7287	403.70	104	433.65	235
334.05	3272	365.90	788	404.00	433	434.40	109
334.90	837	370.60	124	415.00	135	435.80	106
341.05	728	371.05	413	419.50	108	437.30	158

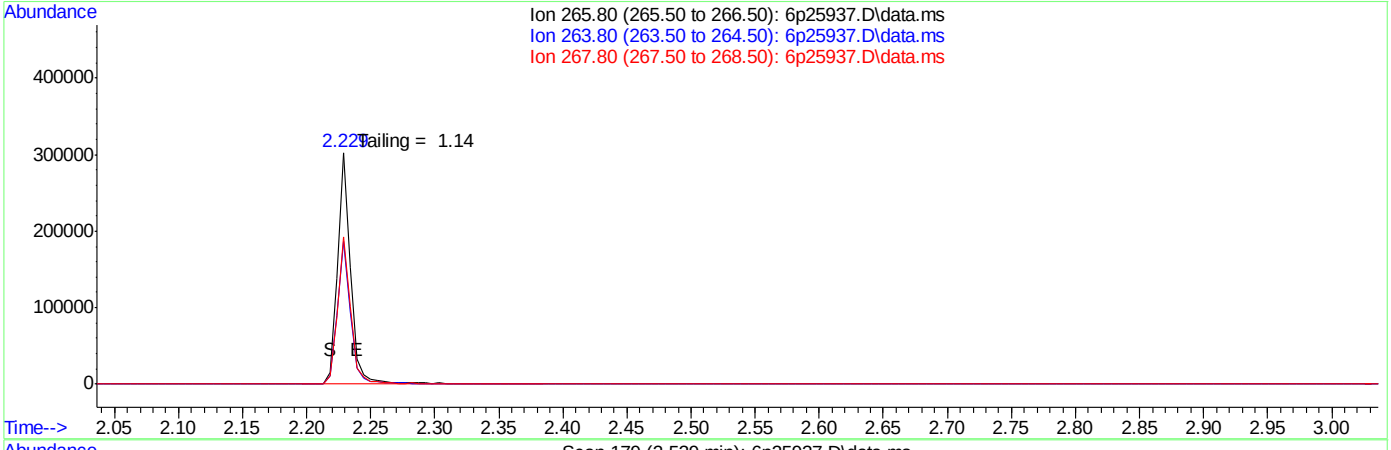
Average of 2.485 to 2.496 min.: 6p25937.D\data.ms
dftpp
Modified:subtracted

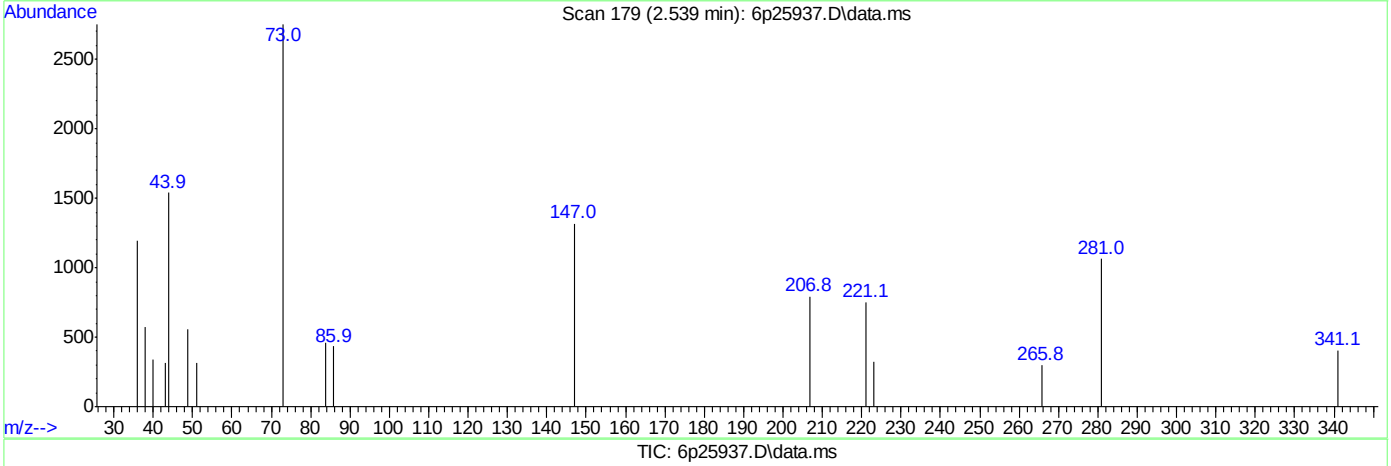
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
439.00	308						
439.85	402						
441.00	22871						
442.00	139682						
443.00	27080						
444.00	2972						
445.00	138						

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p1210\
Data File : 6p25937.D
Acq On : 13 May 2016 2:25 pm
Operator : ariellec
Sample : dftpp
Misc : op93693,e6p1210
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 13 14:30:22 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M
Quant Title : Semi Volatile GC/MS, ZB-5 15m x .25mm x .25um
QLast Update : Tue Apr 05 12:41:26 2016
Response via : Initial Calibration





TIC: 6p25937.D\data.ms

(1) Pentachlorophenol (t)

2.536min (-2.536) 0.00ppb

response 0

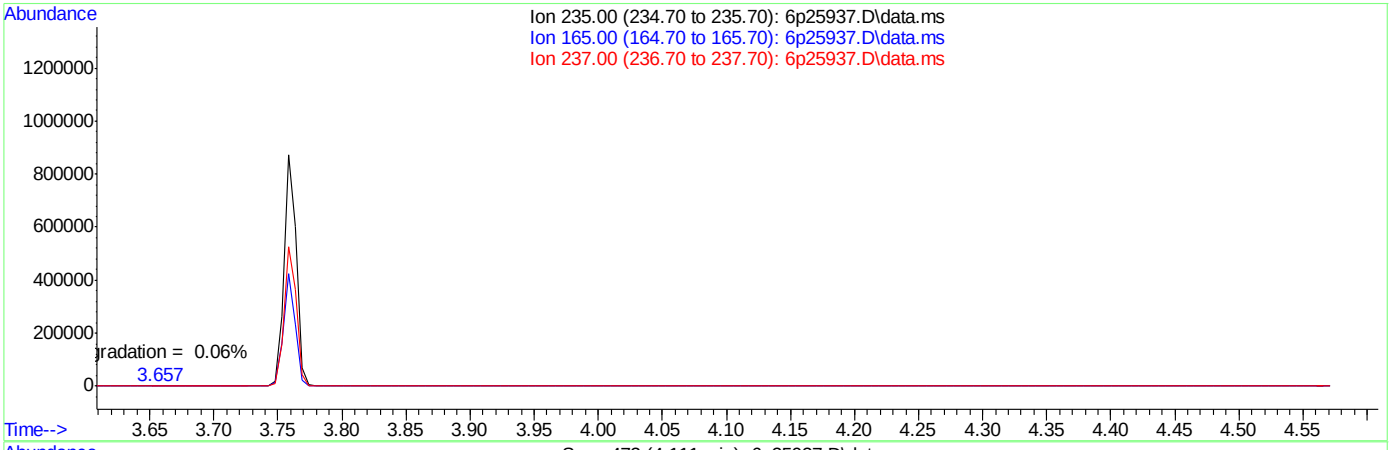
Ion	Exp%	Act%
265.80	100	0.00
263.80	62.70	0.00#
267.80	62.60	0.00#
0.00	0.00	0.00

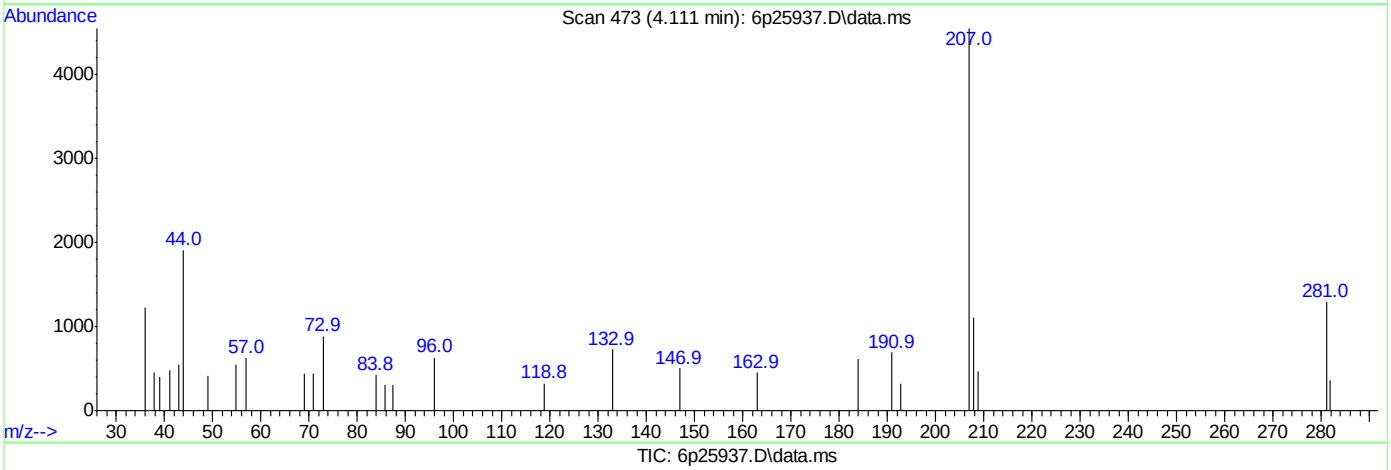
SGS ACCUTEST JC20098

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p1210\
Data File : 6p25937.D
Acq On : 13 May 2016 2:25 pm
Operator : ariellec
Sample : dftpp
Misc : op93693,e6p1210
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 13 14:30:22 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M
Quant Title : Semi Volatile GC/MS, ZB-5 15m x .25mm x .25um
QLast Update : Tue Apr 05 12:41:26 2016
Response via : Initial Calibration





(3) PP-DDT (t)

4.109min (-4.109) 0.00ppb

response 0

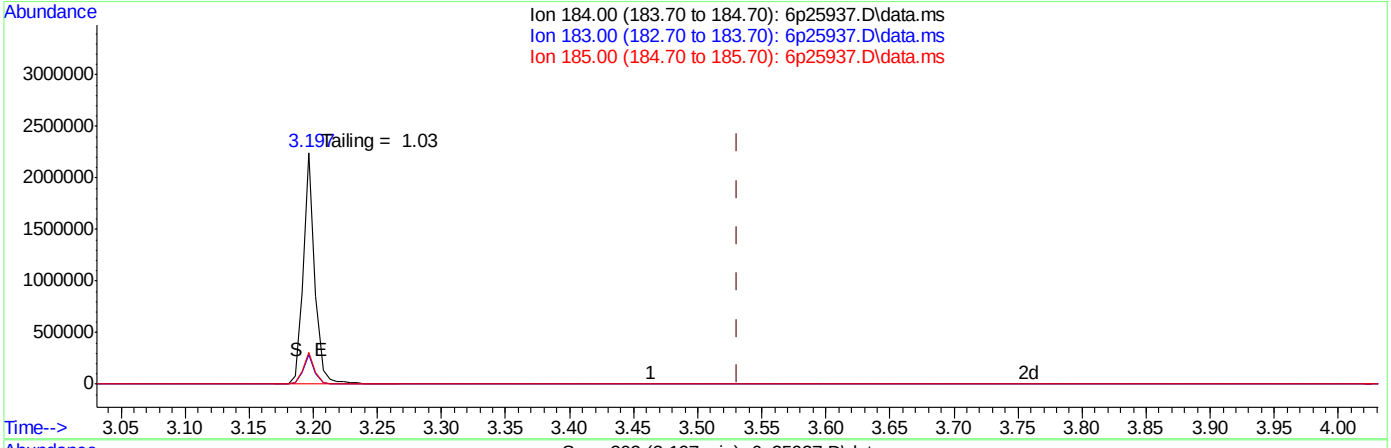
Ion	Exp%	Act%
235.00	100	0.00
165.00	93.70	0.00#
237.00	85.60	0.00#
0.00	0.00	0.00

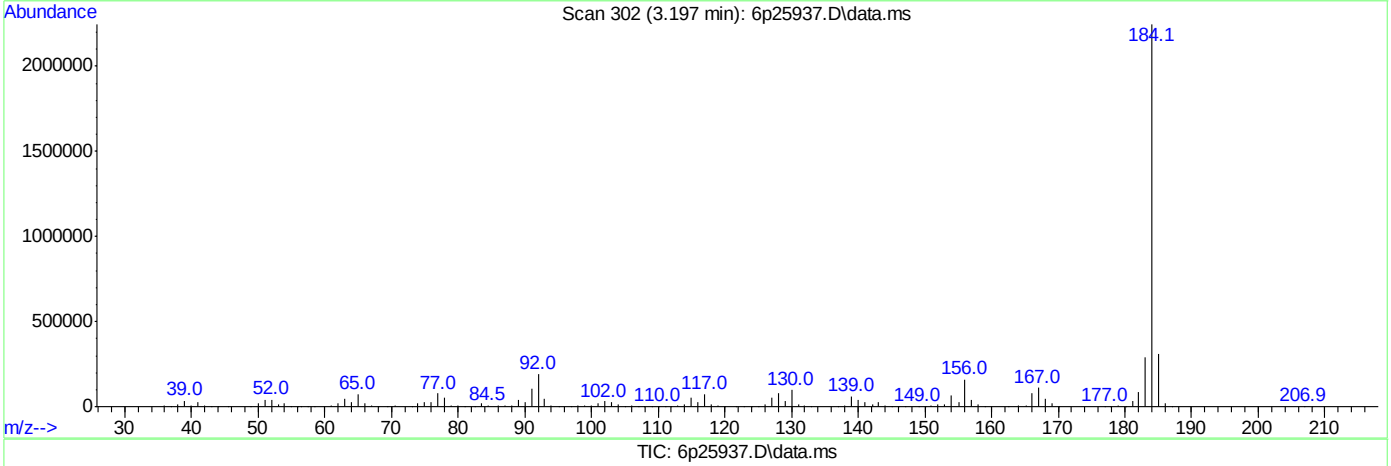
SGS ACCUTEST JC20098

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p1210\
Data File : 6p25937.D
Acq On : 13 May 2016 2:25 pm
Operator : ariellec
Sample : dftpp
Misc : op93693,e6p1210
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 13 14:30:22 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M
Quant Title : Semi Volatile GC/MS, ZB-5 15m x .25mm x .25um
QLast Update : Tue Apr 05 12:41:26 2016
Response via : Initial Calibration





TIC: 6p25937.D\data.ms

(2) Benzidine (t)

3.197min (-0.334) 0.00ppb m

response 1426118

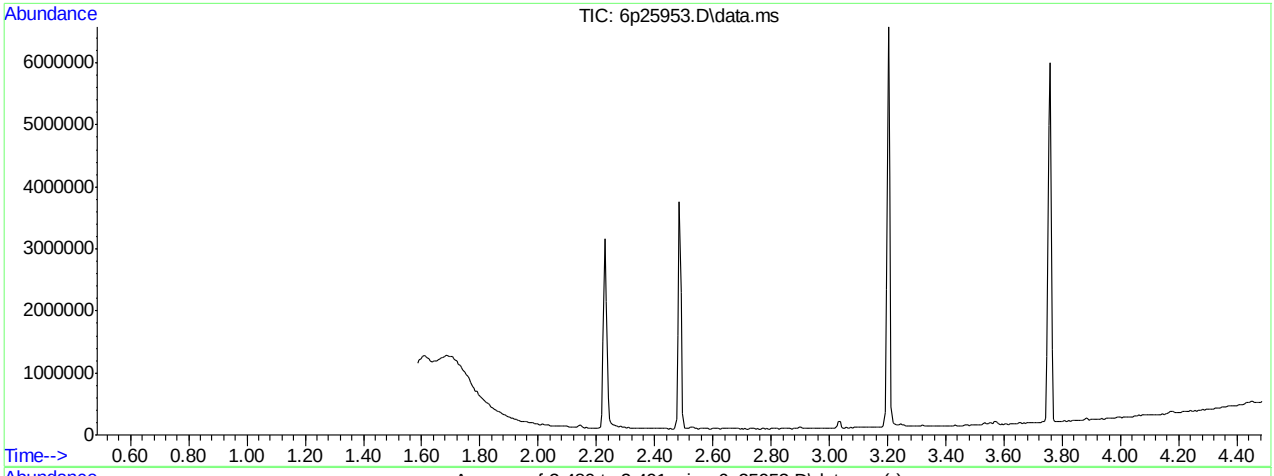
Ion	Exp%	Act%
184.00	100	100
183.00	11.10	12.80
185.00	13.90	13.81
0.00	0.00	0.00

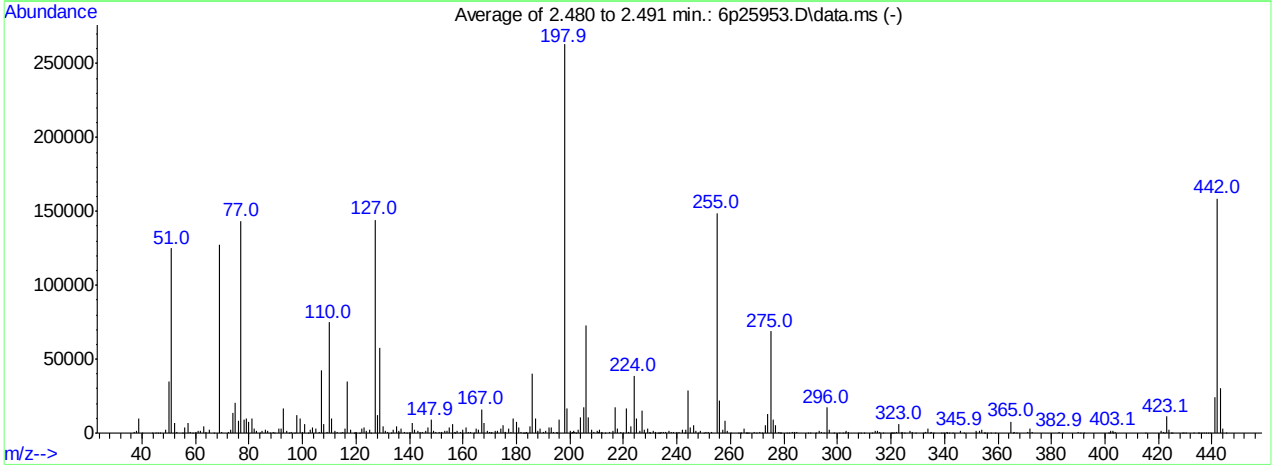
SGS ACCUTEST JC20098

DFTPP

Data File : C:\msdchem\1\DATA\E6P1211\6p25953.D Vial: 1
Acq On : 16 May 2016 8:59 am Operator: ariellec
Sample : dftpp Inst : MS6P
Misc : op93693,e6p1211 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5 15m x .25mm x .25um





AutoFind: Scans 168, 169, 170; Background Corrected with Scan 163

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	47.5	125051	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	48.5	127610	PASS
70	69	0.00	2	0.5	625	PASS
127	198	40	60	54.9	144274	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	262997	PASS
199	198	5	9	6.2	16343	PASS
275	198	10	30	26.2	68986	PASS
365	198	1	100	2.9	7608	PASS
441	443	0.10	100	81.1	24632	PASS
442	198	40	100	60.4	158754	PASS
443	442	17	23	19.1	30379	PASS

6p25953.D DFTPP6P.M Mon May 16 09:06:17 2016 ACLIMS

Average of 2.480 to 2.491 min.: 6p25953.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.90	578	52.00	6689	63.90	674	78.00	9493
37.95	1815	52.90	476	64.95	2564	79.00	10151
38.95	9790	54.95	268	66.95	241	79.95	7401
39.95	190	55.95	3812	68.90	127610	80.90	10240
43.90	51	57.00	7224	69.95	625	81.95	2751
44.90	398	57.95	694	72.10	422	82.95	1848
46.00	121	58.95	56	73.00	2281	83.90	415
46.90	153	59.95	524	74.00	13412	84.90	1522
48.90	2001	61.00	1816	74.95	20431	85.90	2594
49.95	34577	61.95	1902	76.00	8372	86.95	1688
50.95	125051	63.00	4346	77.00	143614	87.90	243

Average of 2.480 to 2.491 min.: 6p25953.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
89.00	423	99.85	957	110.95	10254	121.10	219
89.30	129	100.95	5859	111.90	1595	121.95	2935
90.95	2880	101.90	269	112.95	481	122.95	3752
92.00	3255	102.95	2268	114.20	101	123.95	1762
92.95	16749	103.90	3668	114.95	629	124.90	1949
93.90	1332	104.90	2930	116.00	2993	125.60	314
94.90	298	106.05	1077	116.90	34880	127.00	144274
95.90	678	107.00	42680	117.95	2625	128.00	12272
96.95	82	108.00	6231	119.10	375	128.95	57493
97.95	12224	109.05	1136	119.80	119	130.00	4486
98.95	10068	109.95	74856	120.05	738	130.85	1385

Average of 2.480 to 2.491 min.: 6p25953.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
131.95	616	142.00	2195	152.00	492	161.95	1009
132.95	273	142.95	1829	152.95	1843	162.90	531
133.95	2090	143.95	485	153.95	1689	163.90	223
135.00	4441	144.95	497	155.00	3491	164.90	2734
135.80	23	146.00	1397	156.00	6066	165.90	2406
136.00	1521	147.00	3751	156.80	224	167.00	16279
136.95	3215	147.95	8821	157.05	1121	168.00	7174
138.00	502	148.90	1866	157.85	1635	168.95	1531
138.80	182	149.95	584	159.00	1161	169.85	476
140.05	684	150.95	1146	159.95	1970	170.30	295
141.00	6929	151.70	384	160.95	3618	170.85	621

Average of 2.480 to 2.491 min.: 6p25953.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
171.95	1199	181.00	3667	189.90	842	200.60	168
172.80	448	181.85	698	190.95	1298	200.90	459
173.00	1411	182.70	214	192.00	3472	201.45	1482
174.00	2849	182.90	135	192.90	3871	201.80	441
175.00	5312	183.40	181	194.00	506	202.00	241
175.80	945	183.95	953	194.90	214	202.95	2328
176.00	1158	184.95	4731	195.10	897	204.00	10676
176.90	2804	186.00	40410	195.95	8817	204.95	17640
177.90	1123	187.00	9931	197.90	262997	206.00	72728
178.90	9899	188.05	1209	198.95	16343	207.00	10833
180.00	7648	188.95	2714	199.95	1621	208.00	2236

Average of 2.480 to 2.491 min.: 6p25953.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
208.95	933	218.95	492	229.80	148	237.95	426
210.05	1626	220.00	305	230.00	561	238.85	649
210.60	591	221.00	17041	230.95	1787	239.85	468
211.05	2687	221.70	1141	232.00	487	240.90	977

211.65	844	222.90	4457	232.80	165	242.00	2275
212.00	231	224.00	38656	233.00	113	242.80	381
213.10	113	225.00	10135	233.70	153	243.10	2274
214.95	864	226.10	1421	233.95	1091	244.00	28498
215.95	1920	226.95	15117	234.85	1126	245.05	3772
216.90	17630	227.95	2653	235.85	876	246.00	5389
217.90	2750	228.95	3361	236.95	1191	246.90	1470

Average of 2.480 to 2.491 min.: 6p25953.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
248.00	225	260.10	143	270.90	516	281.80	119
248.85	1186	263.10	100	271.75	264	282.90	609
250.00	178	263.70	121	272.90	5073	284.00	424
250.95	668	263.95	400	274.00	13120	284.95	1156
251.85	527	264.95	3264	275.00	68986	288.90	122
253.00	1166	265.70	180	276.00	8829	289.90	119
255.00	149002	265.90	223	276.95	5592	291.85	361
256.00	22323	266.40	145	277.90	882	292.95	1389
257.00	2089	266.90	1	278.60	109	293.95	503
257.90	8543	268.85	481	278.90	155	294.90	405
258.95	1265	269.85	290	281.05	67	296.00	17237

Average of 2.480 to 2.491 min.: 6p25953.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
297.00	2332	313.95	1259	324.05	836	338.80	227
298.70	122	314.90	1909	325.00	303	339.80	110
300.85	252	315.95	1090	326.90	1558	340.90	172
301.95	322	317.00	117	327.85	923	341.00	428
302.90	262	320.00	108	329.00	118	341.95	370
303.05	1909	320.50	124	332.10	353	342.95	316
304.05	525	320.80	258	332.95	633	345.95	1734
307.95	228	321.10	177	334.00	3381	347.05	287
308.75	230	322.00	487	334.80	126	351.80	100
309.85	381	323.00	6409	335.05	965	351.95	1808
312.95	321	323.70	186	336.00	148	353.00	1578

Average of 2.480 to 2.491 min.: 6p25953.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
354.00	2504	372.00	2992	403.05	1529	429.50	112
354.70	154	372.95	896	403.95	658	430.00	219
355.00	224	382.95	840	415.20	109	433.20	151
356.10	104	384.05	244	420.95	1308	434.65	306
357.10	124	390.00	421	421.90	703	435.40	117
358.80	129	391.00	294	422.20	195	436.00	103
365.00	7608	391.90	107	423.05	11026	437.10	108
365.80	179	401.15	273	424.05	2530	437.80	171
365.95	907	401.80	172	424.90	171	438.50	265
367.00	120	401.95	1199	425.10	221	439.35	344
371.05	626	402.90	174	428.90	156	441.05	24632

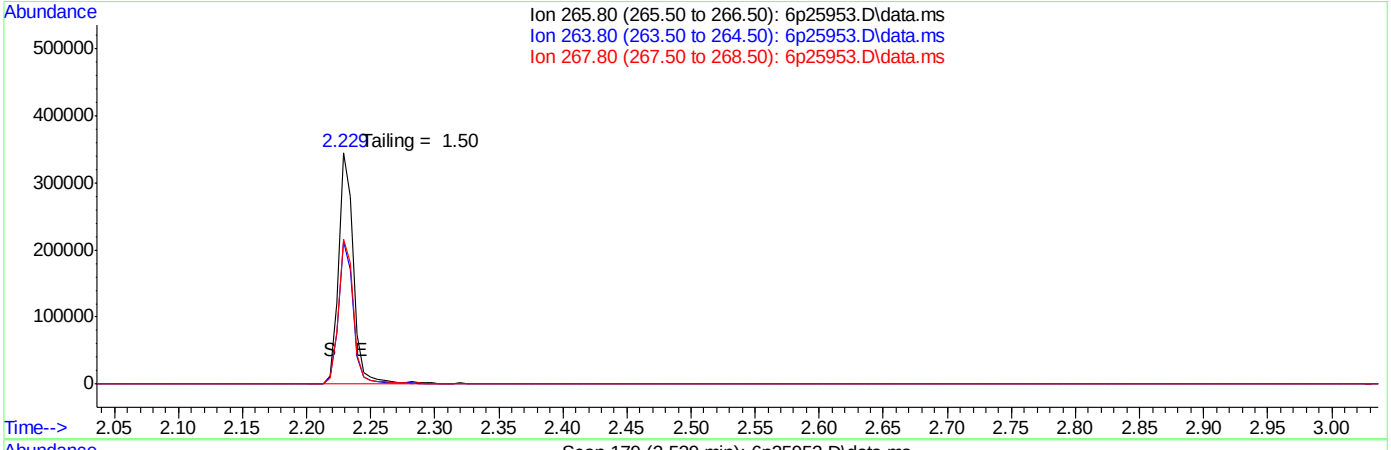
Average of 2.480 to 2.491 min.: 6p25953.D\data.ms
dftpp
Modified:subtracted

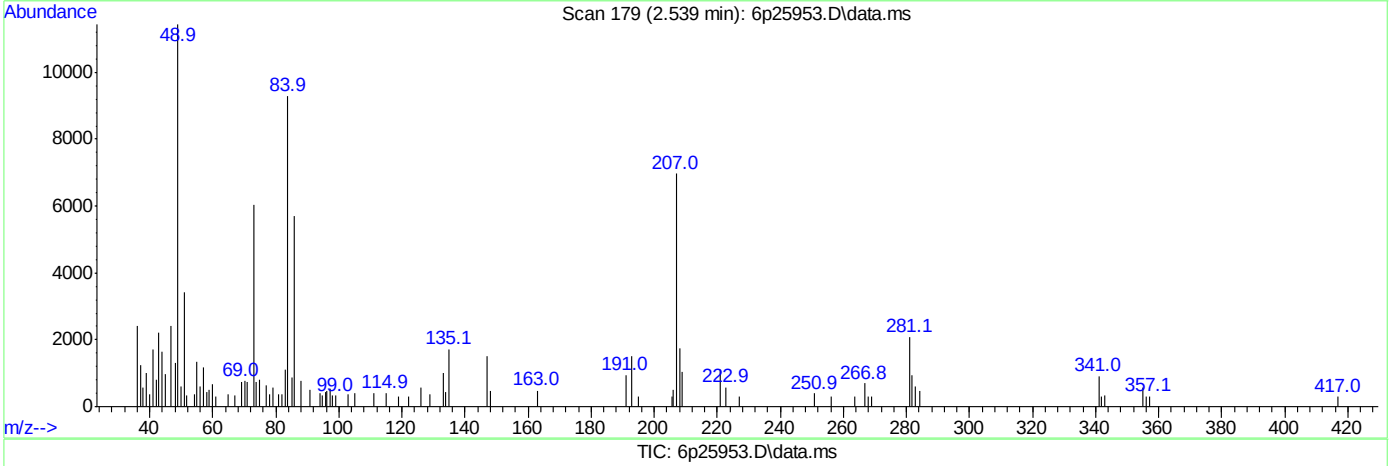
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
442.00	158754						
443.05	30379						
444.00	2934						
445.10	130						

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E6P1211\
Data File : 6p25953.D
Acq On : 16 May 2016 8:59 am
Operator : ariellec
Sample : dftpp
Misc : op93693,e6p1211
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 16 09:04:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M
Quant Title : Semi Volatile GC/MS, ZB-5 15m x .25mm x .25um
QLast Update : Tue Apr 05 12:41:26 2016
Response via : Initial Calibration





TIC: 6p25953.D\data.ms

(1) Pentachlorophenol (t)

2.536min 0.00ppb d

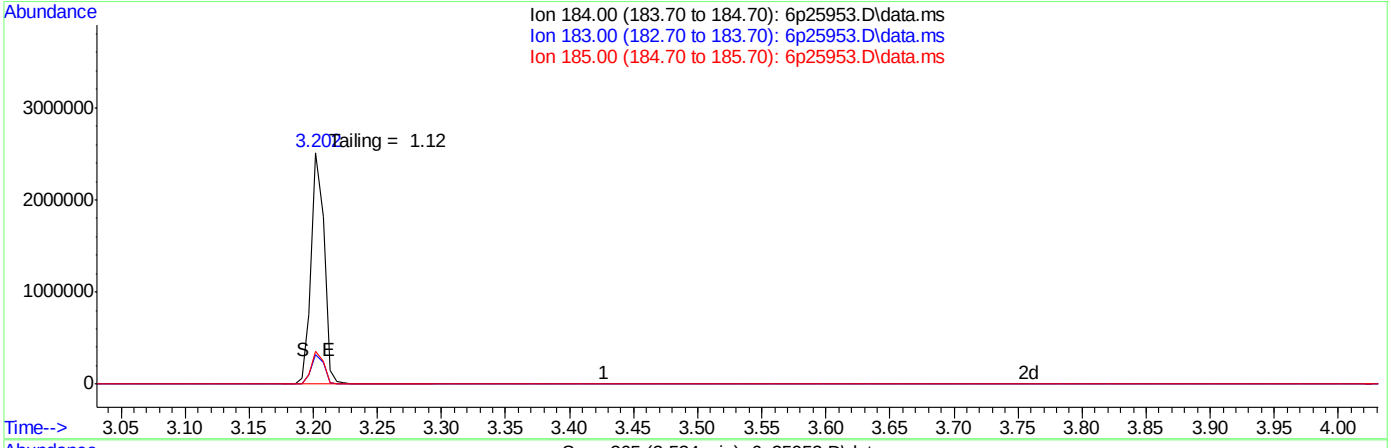
response 0

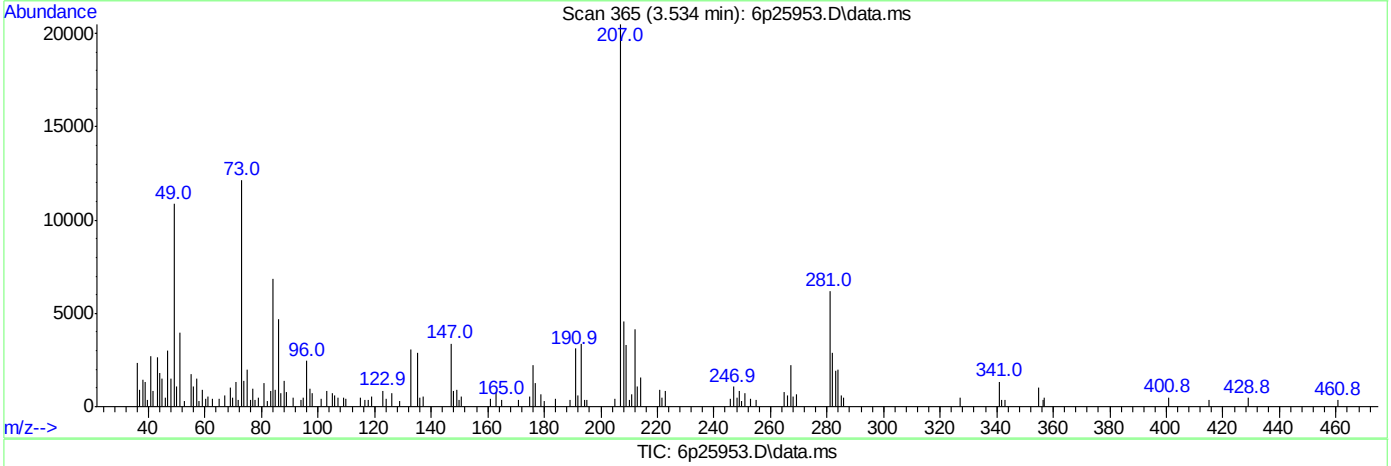
Ion	Exp%	Act%
265.80	100	0.00
263.80	62.70	0.00
267.80	62.60	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E6P1211\
Data File : 6p25953.D
Acq On : 16 May 2016 8:59 am
Operator : ariellec
Sample : dftpp
Misc : op93693,e6p1211
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 16 09:04:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M
Quant Title : Semi Volatile GC/MS, ZB-5 15m x .25mm x .25um
QLast Update : Tue Apr 05 12:41:26 2016
Response via : Initial Calibration





TIC: 6p25953.D\data.ms

(2) Benzidine (t)

3.531min 0.00ppb d

response 0

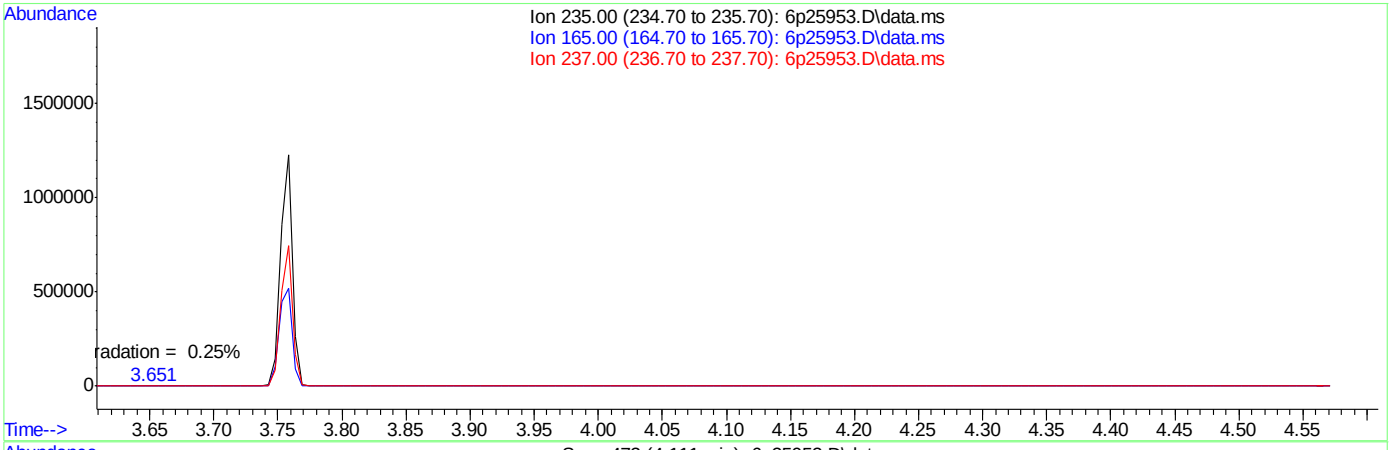
Ion	Exp%	Act%
184.00	100	0.00
183.00	11.10	0.00
185.00	13.90	0.00
0.00	0.00	0.00

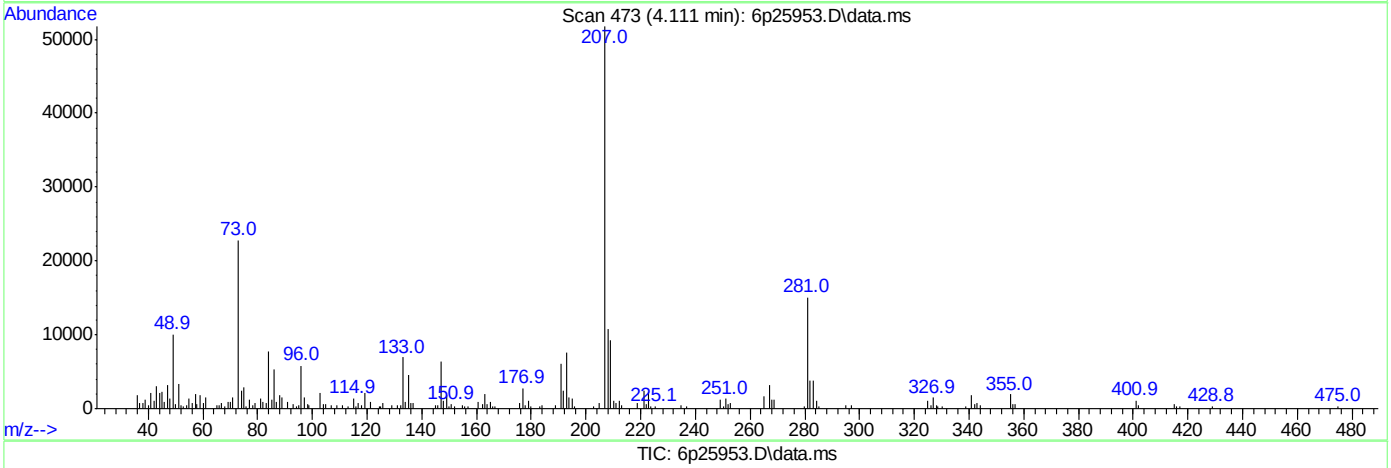
SGS ACCUTEST JC20098

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E6P1211\
Data File : 6p25953.D
Acq On : 16 May 2016 8:59 am
Operator : ariellec
Sample : dftpp
Misc : op93693,e6p1211
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 16 09:04:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M
Quant Title : Semi Volatile GC/MS, ZB-5 15m x .25mm x .25um
QLast Update : Tue Apr 05 12:41:26 2016
Response via : Initial Calibration





TIC: 6p25953.D\data.ms

(3) PP-DDT (t)

4.109min 0.00ppb d

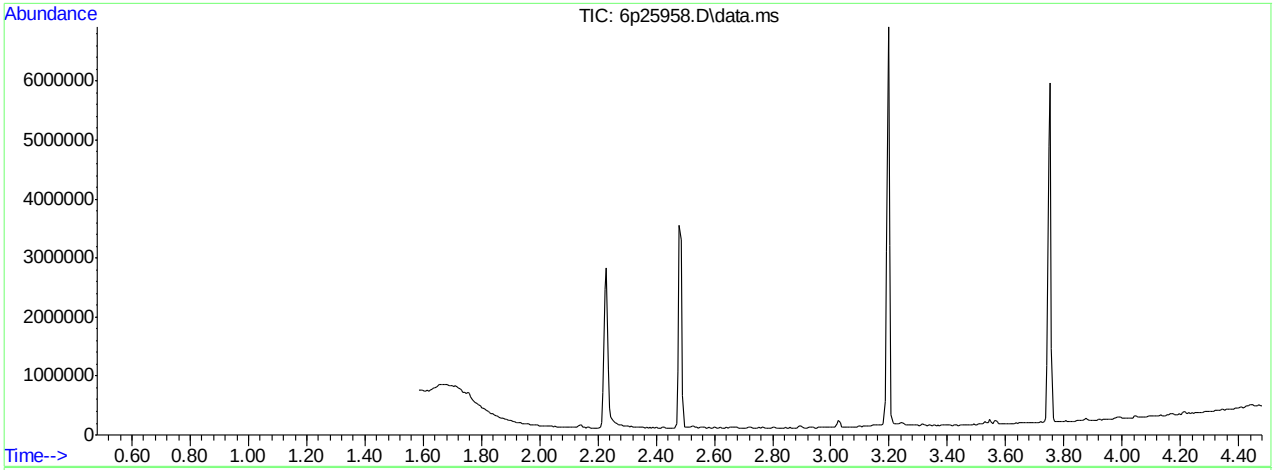
response 0

Ion	Exp%	Act%
235.00	100	0.00
165.00	93.70	0.00
237.00	85.60	0.00
0.00	0.00	0.00

DFTPP

Data File : C:\msdchem\1\DATA\e6p1212\6p25958.D Vial: 1
Acq On : 16 May 2016 11:00 am Operator: ariellec
Sample : dftpp Inst : MS6P
Misc : op93693,e6p1212 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5 15m x .25mm x .25um



AutoFind: Scans 167, 168, 169; Background Corrected with Scan 163

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	47.4	129527	PASS
68	69	0.00	2	0.7	932	PASS
69	198	0.00	100	50.6	138190	PASS
70	69	0.00	2	0.6	775	PASS
127	198	40	60	54.4	148557	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	273010	PASS
199	198	5	9	6.7	18218	PASS
275	198	10	30	25.8	70571	PASS
365	198	1	100	3.2	8697	PASS
441	443	0.10	100	76.8	23976	PASS
442	198	40	100	55.7	151981	PASS
443	442	17	23	20.5	31207	PASS

6p25958.D DFTPP6P.M Mon May 16 11:38:16 2016 ACLIMS

Average of 2.475 to 2.486 min.: 6p25958.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.85	372	50.95	129527	59.95	280	71.70	130
36.90	1334	51.95	6291	60.95	1658	72.95	1943
38.00	1708	52.80	126	61.95	1918	74.00	14924
39.00	9877	53.05	603	62.95	4818	75.00	21404
39.90	25	53.85	434	64.00	978	76.05	8461
40.95	601	54.90	732	65.00	2738	76.95	143656
43.00	803	55.90	3718	65.90	167	77.95	10626
43.90	156	57.00	8516	68.00	932	78.95	10023
44.85	179	57.90	149	68.90	138190	79.95	8183
45.90	149	58.10	186	69.90	775	80.95	10322
50.00	36301	59.00	328	70.85	659	81.90	1998

Average of 2.475 to 2.486 min.: 6p25958.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
83.00	2562	95.90	870	107.00	43335	117.95	3080
84.90	1646	96.90	367	107.95	6537	118.95	474
85.90	4509	97.90	13271	108.95	1147	119.85	926
86.90	1209	98.95	10378	110.00	76514	120.95	111
87.90	97	100.00	1242	110.95	12886	122.00	3121
88.80	67	100.90	5710	111.95	1969	122.95	4635
90.95	2801	101.95	354	112.95	662	123.95	2166
91.95	2606	102.90	2638	114.10	105	124.95	2156
92.90	17195	103.95	3528	114.85	560	127.00	148557
93.90	1456	105.05	3530	116.05	3209	128.00	11280
94.95	254	106.05	1919	116.90	37330	129.00	58915

Average of 2.475 to 2.486 min.: 6p25958.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
129.95	5339	138.90	656	148.95	1929	156.95	1350
130.95	1586	139.80	126	150.05	543	157.95	1420
131.90	968	140.00	754	150.80	180	159.00	1199
132.90	701	140.95	7967	151.00	513	159.90	2050
133.90	2401	141.95	2578	151.20	288	160.95	3442
134.95	4169	143.00	1554	151.60	334	161.95	1077
135.90	982	144.00	558	152.00	682	162.90	370
136.20	237	145.05	572	152.90	2618	164.10	613
136.95	2290	145.95	1536	153.95	1856	164.95	3199
137.80	158	146.90	4061	154.95	4064	166.00	1939
137.95	522	147.90	8897	155.95	5769	166.95	17053

Average of 2.475 to 2.486 min.: 6p25958.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
167.95	7609	178.90	10770	188.80	397	197.90	273010
168.90	1015	179.95	7757	189.00	2296	198.90	18218
169.95	610	180.95	3031	190.05	634	199.90	1628
170.95	832	182.05	780	190.90	1334	201.10	222
171.90	1597	182.60	187	191.90	4009	201.40	1413
172.95	1811	182.90	217	192.95	3299	201.90	255
173.95	3145	184.05	1099	193.80	76	202.70	272
175.00	5593	185.00	5558	194.00	395	203.00	2166
176.05	1693	186.00	40435	194.80	479	204.00	10972
176.95	2777	187.00	11600	195.10	359	205.00	18985
177.95	1119	187.95	1650	196.00	9110	206.00	75056

Average of 2.475 to 2.486 min.: 6p25958.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
206.95	9404	214.70	179	225.90	639	234.95	1284
207.95	2708	215.00	726	226.10	893	235.95	962
208.95	1277	216.10	1964	227.00	16646	236.95	1790
210.00	804	216.90	18746	227.90	1336	237.70	133

210.20	681	218.00	2436	228.10	1130	238.10	189
210.70	252	219.00	576	228.90	3385	238.85	759
211.00	3249	220.95	15286	229.90	545	239.95	922
211.60	503	222.00	244	230.85	1105	240.80	132
212.10	184	223.00	4756	231.90	332	241.00	457
212.90	320	224.00	40491	233.00	291	241.80	289
214.00	104	225.00	10196	233.95	1238	241.95	2077

Average of 2.475 to 2.486 min.: 6p25958.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
243.00	2727	253.10	1028	264.95	3676	276.00	9441
244.00	32288	255.00	153264	265.85	991	276.70	567
245.05	4060	256.00	22034	266.90	412	276.95	5515
245.95	6034	256.80	178	268.85	237	277.90	1241
247.00	1305	256.95	1349	269.85	381	278.60	151
247.95	411	257.95	8138	271.10	330	279.00	124
248.95	1398	258.60	144	271.90	456	282.00	57
250.00	162	258.90	1209	272.30	445	282.80	150
250.85	546	259.95	500	273.00	4912	282.95	883
251.95	511	260.70	256	274.00	13669	284.00	463
252.80	139	263.80	388	275.00	70571	284.95	1035

Average of 2.475 to 2.486 min.: 6p25958.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
287.80	108	297.00	2951	310.10	144	323.00	6252
288.80	233	298.00	155	312.50	103	324.00	1256
289.70	150	300.80	309	313.15	321	325.30	107
290.00	199	301.20	115	314.05	813	325.80	107
291.10	123	302.05	408	314.90	1965	326.90	1028
292.05	342	302.60	101	315.95	1321	328.00	539
292.90	1371	302.95	1859	316.90	123	329.10	119
293.80	198	304.05	519	319.60	118	332.00	257
294.20	280	307.95	250	320.10	129	333.00	594
295.00	489	309.00	105	320.90	776	333.80	281
296.00	17658	309.80	199	322.00	295	334.10	3932

Average of 2.475 to 2.486 min.: 6p25958.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
335.05	834	353.10	1034	372.00	3550	402.05	1304
339.80	109	354.00	2029	373.05	1030	402.95	2037
340.20	105	354.95	13	373.90	128	404.00	642
341.05	925	355.20	283	383.00	866	404.90	116
341.90	342	364.90	8697	384.00	336	405.20	109
342.90	101	365.80	418	389.80	361	415.10	126
345.95	1053	366.00	593	390.80	270	417.00	117
346.95	240	366.90	117	391.10	140	420.90	1269
351.90	1164	370.10	122	391.60	207	422.05	1514
352.10	888	371.00	232	392.10	196	423.05	10918
352.80	595	371.20	260	401.10	251	424.05	3138

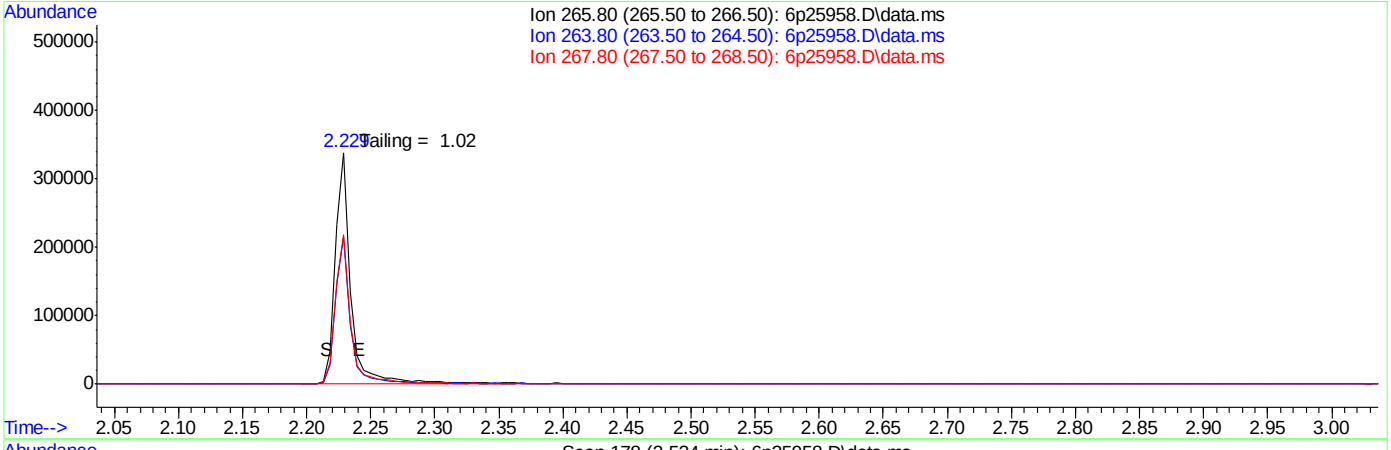
Average of 2.475 to 2.486 min.: 6p25958.D\data.ms
dftpp
Modified:subtracted

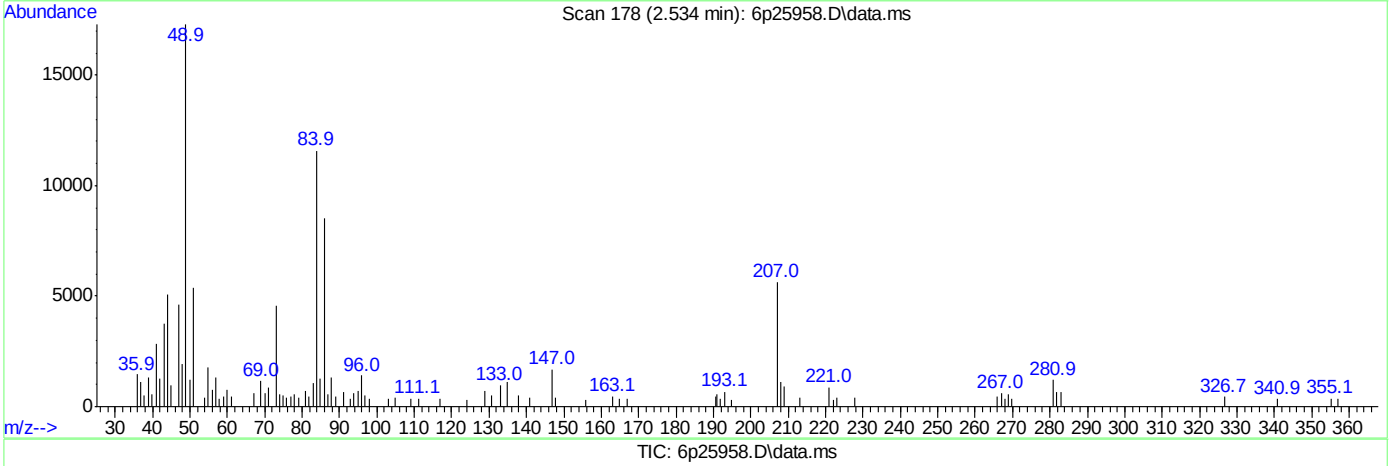
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
425.00	464	437.70	279				
428.40	113	438.40	117				
430.60	100	438.80	105				
431.00	100	439.10	161				
431.80	112	439.70	651				
432.20	124	441.10	23976				
433.40	131	442.05	151981				
434.30	126	443.00	31207				
434.70	100	443.90	798				
435.40	125	444.10	1940				
436.50	235	444.80	151				

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p1212\
Data File : 6p25958.D
Acq On : 16 May 2016 11:00 am
Operator : ariellec
Sample : dftpp
Misc : op93693,e6p1212
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 16 11:05:15 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M
Quant Title : Semi Volatile GC/MS, ZB-5 15m x .25mm x .25um
QLast Update : Tue Apr 05 12:41:26 2016
Response via : Initial Calibration





TIC: 6p25958.D\data.ms

(1) Pentachlorophenol (t)

2.536min 0.00ppb d

response 0

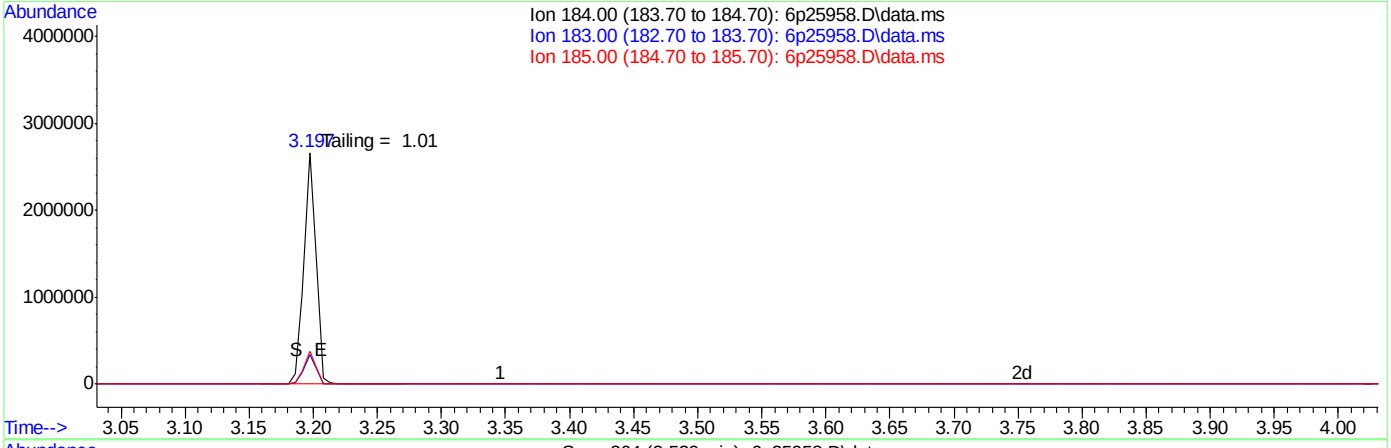
Ion	Exp%	Act%
265.80	100	0.00
263.80	62.70	0.00
267.80	62.60	0.00
0.00	0.00	0.00

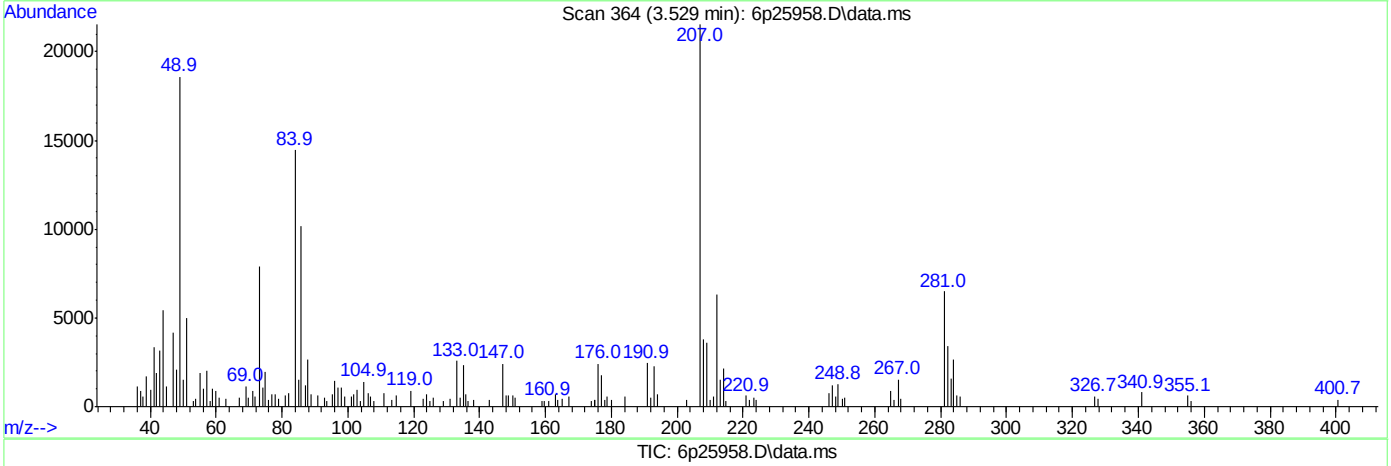
SGS ACCUTEST JC20098

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p1212\
Data File : 6p25958.D
Acq On : 16 May 2016 11:00 am
Operator : ariellec
Sample : dftpp
Misc : op93693,e6p1212
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 16 11:05:15 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M
Quant Title : Semi Volatile GC/MS, ZB-5 15m x .25mm x .25um
QLast Update : Tue Apr 05 12:41:26 2016
Response via : Initial Calibration





TIC: 6p25958.D\data.ms

(2) Benzidine (t)

3.531min 0.00ppb d

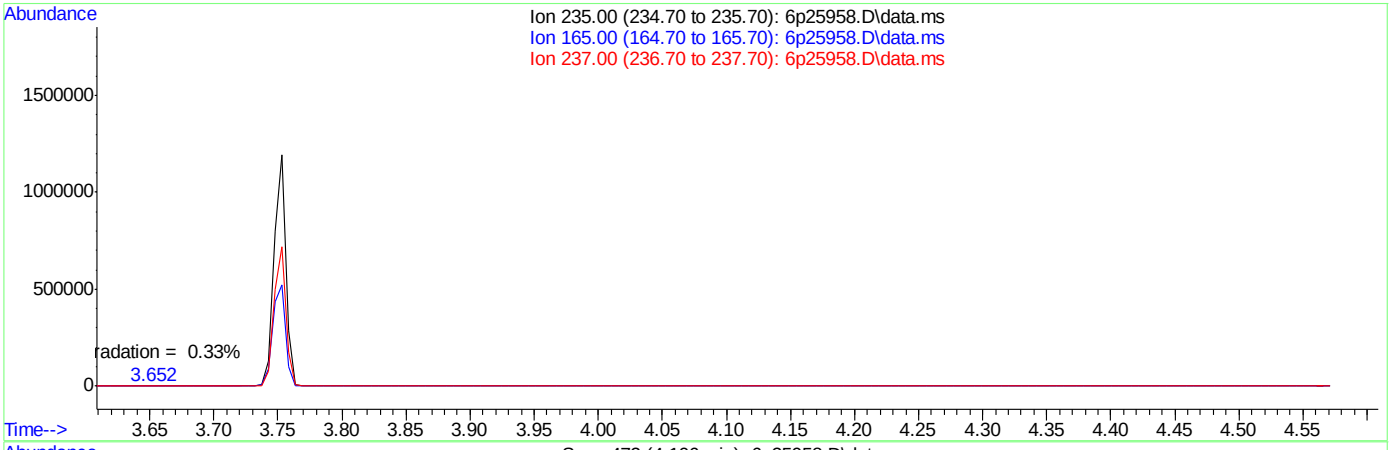
response 0

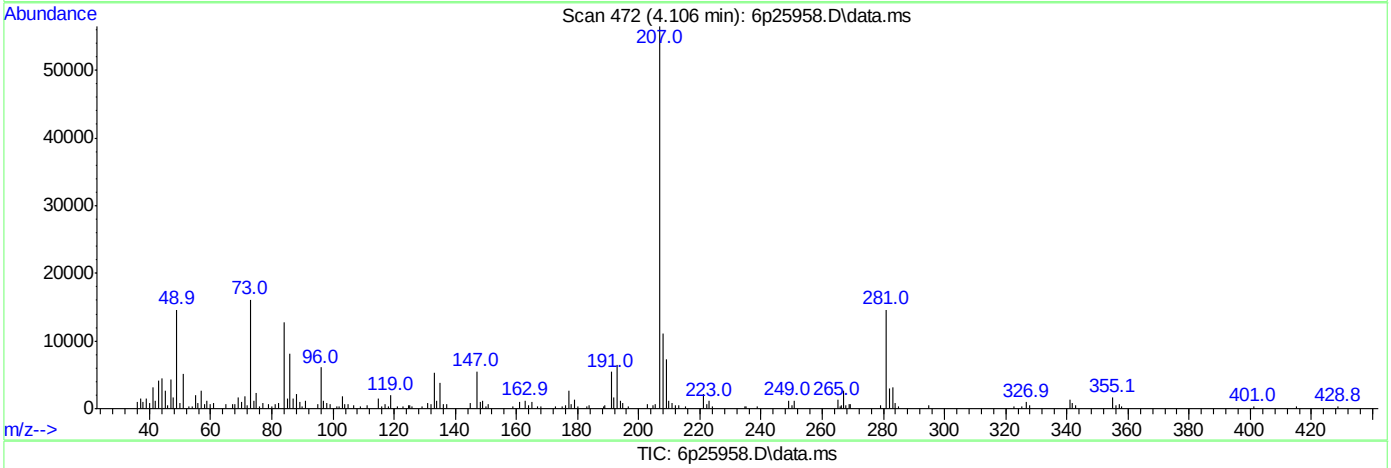
Ion	Exp%	Act%
184.00	100	0.00
183.00	11.10	0.00
185.00	13.90	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p1212\
Data File : 6p25958.D
Acq On : 16 May 2016 11:00 am
Operator : ariellec
Sample : dftpp
Misc : op93693,e6p1212
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 16 11:05:15 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M
Quant Title : Semi Volatile GC/MS, ZB-5 15m x .25mm x .25um
QLast Update : Tue Apr 05 12:41:26 2016
Response via : Initial Calibration





(3) PP-DDT (t)

4.109min (-4.109) 0.00ppb

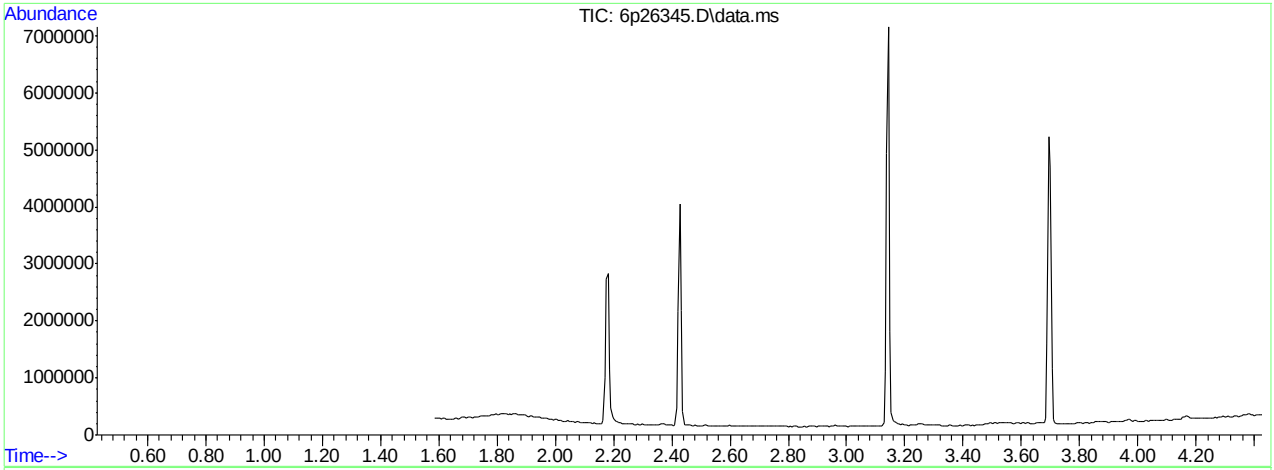
response 0

Ion	Exp%	Act%
235.00	100	0.00
165.00	93.70	0.00#
237.00	85.60	0.00#
0.00	0.00	0.00

DFTPP

Data File : C:\msdchem\1\DATA\e6p1227\6p26345.D Vial: 1
Acq On : 25 May 2016 9:01 am Operator: ariellec
Sample : dftpp Inst : MS6P
Misc : op94071,e6p1227 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5 15m x .25mm x .25um



AutoFind: Scans 157, 158, 159; Background Corrected with Scan 152

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	41.3	124651	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	43.4	131038	PASS
70	69	0.00	2	0.3	458	PASS
127	198	40	60	52.6	158920	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	302037	PASS
199	198	5	9	6.7	20201	PASS
275	198	10	30	24.6	74272	PASS
365	198	1	100	3.0	9069	PASS
441	443	0.10	100	86.3	29945	PASS
442	198	40	100	61.9	186898	PASS
443	442	17	23	18.6	34697	PASS

6p26345.D DFTPP6P.M Wed May 25 09:07:05 2016 ACLIMS

Average of 2.421 to 2.432 min.: 6p26345.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.90	888	52.95	18	63.95	663	78.00	10475
37.95	2225	53.95	411	64.95	2093	78.90	9104
38.95	8836	55.00	73	67.00	230	79.90	7318
40.00	489	55.95	3839	68.90	131038	80.90	10048
43.90	356	57.00	7662	69.95	458	81.90	2412
44.90	213	57.85	689	71.00	202	83.00	1259
47.90	56	58.75	263	73.00	1289	85.00	1622
48.90	1516	59.90	276	73.95	14296	85.90	2811
49.95	32229	60.90	1733	74.85	20077	86.90	1168
50.95	124651	61.90	1990	76.05	8778	87.90	786
52.00	6482	62.90	4269	76.95	148640	88.90	182

Average of 2.421 to 2.432 min.: 6p26345.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
89.05	339	100.90	5994	112.85	669	122.95	4249
91.00	1337	101.95	382	113.20	171	123.95	2229
91.85	2488	102.90	2710	113.90	180	124.90	1847
92.90	17938	103.90	3916	114.95	93	126.90	158920
93.90	1168	104.95	3850	115.95	2089	127.90	12455
95.00	353	105.95	232	116.90	36213	128.90	62432
96.00	85	106.90	43370	117.90	3081	129.90	5280
97.00	861	107.90	6393	118.90	233	130.90	1042
97.90	14141	109.90	84468	119.90	840	131.95	833
98.90	9251	110.90	11804	121.00	265	133.90	1422
99.90	1097	112.00	1113	121.90	2903	134.90	5143

Average of 2.421 to 2.432 min.: 6p26345.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
135.95	2507	145.90	1589	156.95	1190	167.90	7667
136.95	2400	146.90	3822	157.95	697	168.90	1357
137.80	221	147.90	9740	158.95	984	169.70	237
138.00	247	148.95	1848	159.90	2457	170.00	405
138.95	788	149.95	987	160.90	3288	170.30	245
139.95	1191	150.85	1162	161.95	775	170.90	980
140.85	8346	151.85	962	163.00	516	171.90	1534
141.95	2209	152.95	2277	163.95	197	172.90	617
142.90	1511	153.95	1730	164.85	3437	173.00	921
143.90	473	154.95	4346	166.00	1869	173.95	3124
144.95	482	155.95	7207	166.85	16067	174.95	6204

Average of 2.421 to 2.432 min.: 6p26345.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
175.95	1515	187.00	11974	198.90	20201	209.90	1422
176.95	2413	187.95	1575	199.95	1556	210.95	3726
178.00	543	188.90	2748	200.80	485	211.60	389
178.85	10912	189.85	746	201.50	1835	211.90	707
179.95	7907	190.95	1196	202.90	2486	212.70	126
180.95	3448	191.95	3789	203.90	11459	212.90	319
181.95	797	192.95	4186	205.00	18502	213.90	105
182.70	212	193.80	198	205.95	78328	214.90	925
183.95	903	194.10	414	206.95	10417	215.90	588
184.95	5348	195.90	10000	207.95	2846	216.90	19843
186.00	42528	197.90	302037	209.00	813	217.90	2484

Average of 2.421 to 2.432 min.: 6p26345.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
218.70	170	229.85	705	238.95	405	249.80	140
219.85	559	230.85	1487	239.95	693	249.95	477
220.95	18419	231.95	497	240.95	1098	250.85	354
221.90	950	233.00	157	241.95	2350	251.10	181

222.95	4607	233.95	945	243.05	2229	251.60	127
224.00	40882	234.95	1479	243.95	31454	252.00	519
224.95	10672	235.85	1167	245.00	4437	253.00	1480
226.05	691	236.80	798	245.90	6855	254.95	155672
226.90	17530	237.00	673	246.90	1015	255.95	22209
227.85	2298	237.70	210	248.00	340	256.90	2169
228.95	3814	237.95	362	248.95	1254	257.90	8576

Average of 2.421 to 2.432 min.: 6p26345.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
258.95	1784	269.80	180	278.80	167	289.05	356
259.90	198	270.10	240	278.95	346	289.50	106
260.70	176	270.90	227	280.95	238	290.00	103
261.00	334	271.60	157	281.95	449	290.85	270
262.90	138	271.90	305	282.80	510	291.20	169
263.90	509	272.95	5184	283.00	416	292.05	432
264.95	3826	273.90	14297	283.85	386	292.95	1661
265.80	357	274.95	74272	284.10	342	293.80	138
267.00	66	275.95	9652	284.90	1325	294.00	535
267.60	114	276.95	6458	285.90	182	295.90	18985
268.70	116	277.95	1191	288.70	204	296.95	2749

Average of 2.421 to 2.432 min.: 6p26345.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
297.70	110	312.10	176	321.85	427	332.05	330
298.10	139	312.70	193	322.95	6588	333.05	848
300.85	276	313.00	290	323.95	1312	333.95	4378
301.60	158	314.00	1163	324.90	120	334.95	1369
301.90	278	314.90	2198	326.00	260	336.10	175
302.10	234	315.95	1229	326.20	129	341.00	948
302.95	2266	317.10	272	326.95	1190	341.90	258
303.95	958	317.90	114	327.90	602	342.70	111
307.90	274	319.60	100	328.75	295	344.90	135
308.95	278	320.80	221	330.90	113	345.15	201
310.00	174	321.05	483	331.80	201	345.80	303

Average of 2.421 to 2.432 min.: 6p26345.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
345.95	1334	358.95	222	390.00	530	422.95	12465
346.95	283	363.70	155	390.95	454	423.85	2518
350.90	205	364.90	9069	392.00	192	426.10	131
351.10	125	365.90	1406	400.75	278	427.30	104
351.95	1947	370.10	123	401.90	1545	428.90	103
352.90	234	371.10	273	402.80	331	429.50	126
353.05	1213	371.95	3666	403.00	1874	430.80	125
354.00	2580	372.95	1084	403.95	505	432.30	121
354.80	128	382.80	889	409.60	102	433.30	177
355.05	452	384.05	317	420.90	1515	434.00	108
355.80	106	389.60	143	422.05	1971	434.90	116

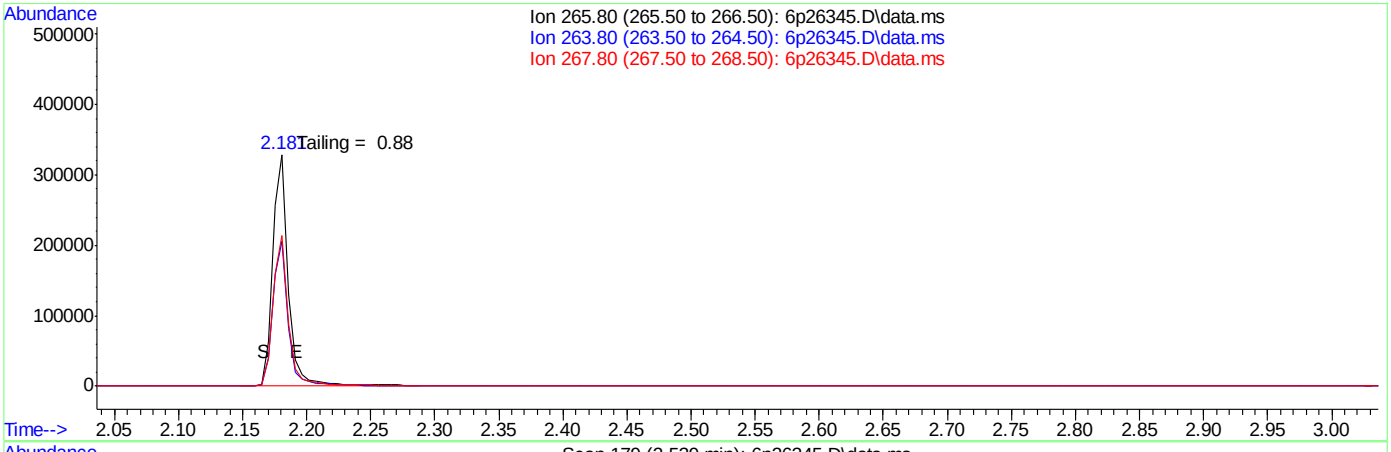
Average of 2.421 to 2.432 min.: 6p26345.D\data.ms
dftpp
Modified:subtracted

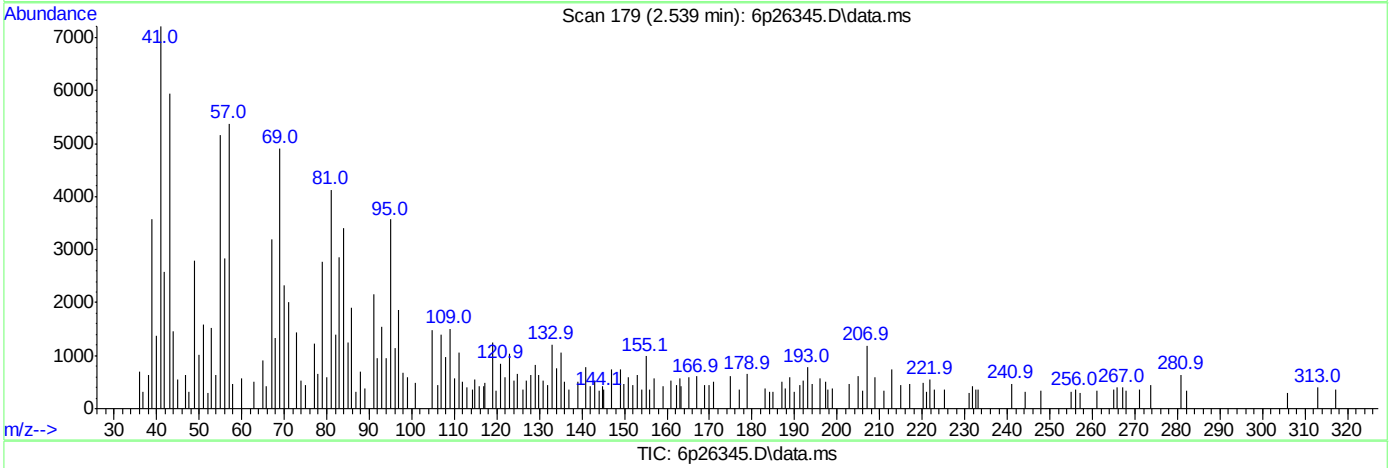
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
435.40	221	443.00	34697				
436.10	117	443.95	3322				
436.60	117	445.10	129				
437.50	172						
437.95	359						
438.30	396						
438.95	529						
439.40	252						
439.70	127						
441.00	29945						
442.00	186898						

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p1227\
Data File : 6p26345.D
Acq On : 25 May 2016 9:01 am
Operator : ariellec
Sample : dftpp
Misc : op94071,e6p1227
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 25 09:06:09 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M
Quant Title : Semi Volatile GC/MS, ZB-5 15m x .25mm x .25um
QLast Update : Tue Apr 05 12:41:26 2016
Response via : Initial Calibration





TIC: 6p26345.D\data.ms

(1) Pentachlorophenol (t)

2.536min 0.00ppb d

response 0

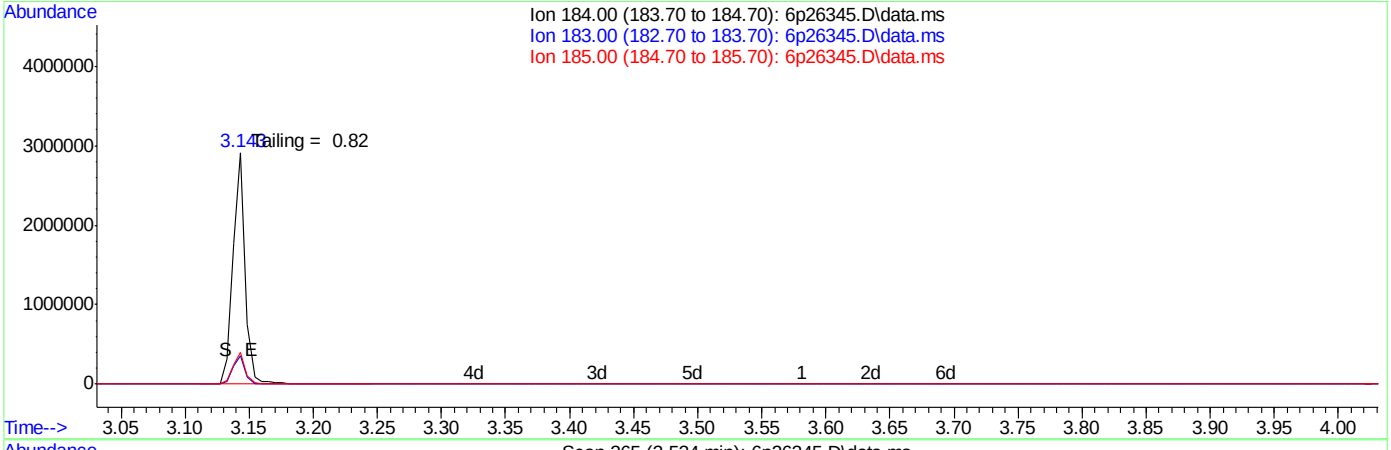
Ion	Exp%	Act%
265.80	100	0.00
263.80	62.70	0.00
267.80	62.60	0.00
0.00	0.00	0.00

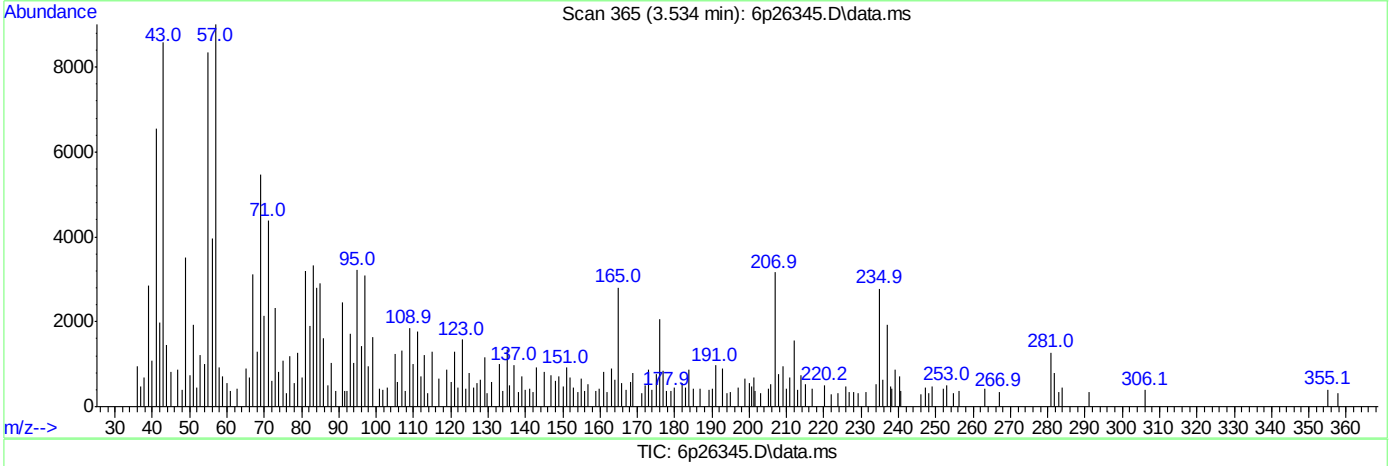
SGS ACCUTEST JC20098

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p1227\
Data File : 6p26345.D
Acq On : 25 May 2016 9:01 am
Operator : ariellec
Sample : dftpp
Misc : op94071,e6p1227
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 25 09:06:09 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M
Quant Title : Semi Volatile GC/MS, ZB-5 15m x .25mm x .25um
QLast Update : Tue Apr 05 12:41:26 2016
Response via : Initial Calibration





TIC: 6p26345.D\data.ms

(2) Benzidine (t)

3.531min 0.00ppb d

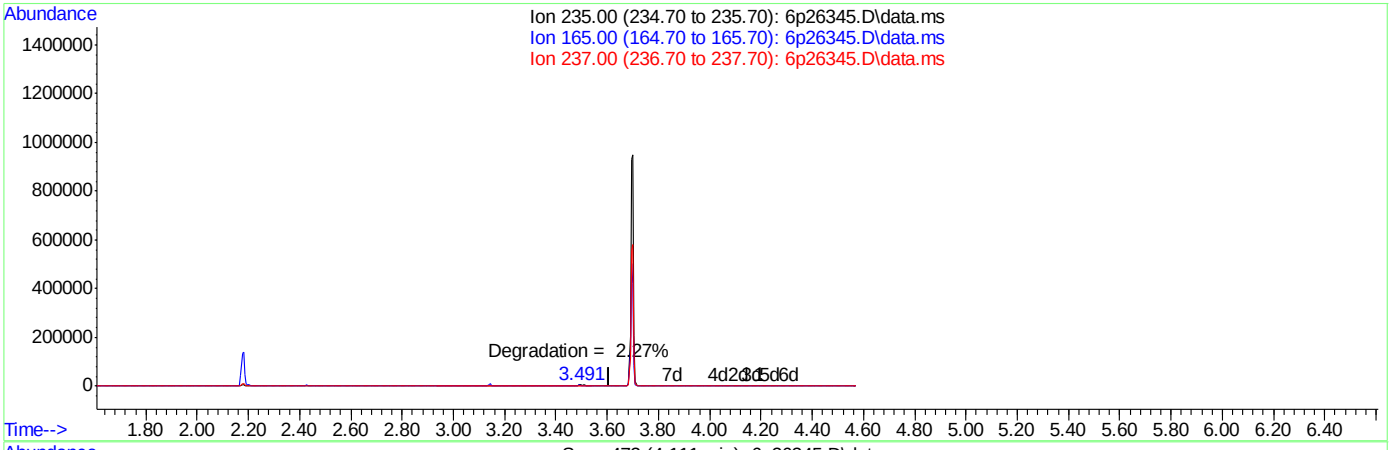
response 0

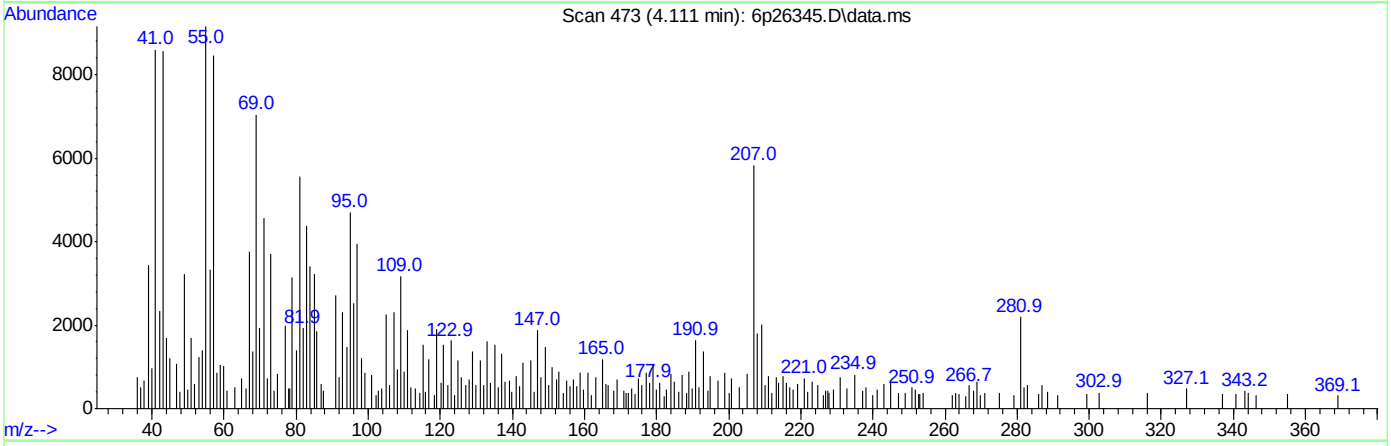
Ion	Exp%	Act%
184.00	100	0.00
183.00	11.10	0.00
185.00	13.90	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p1227\
Data File : 6p26345.D
Acq On : 25 May 2016 9:01 am
Operator : ariellec
Sample : dftpp
Misc : op94071,e6p1227
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 25 09:06:09 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M
Quant Title : Semi Volatile GC/MS, ZB-5 15m x .25mm x .25um
QLast Update : Tue Apr 05 12:41:26 2016
Response via : Initial Calibration





TIC: 6p26345.D\data.ms

(3) PP-DDT (t)

4.109min 0.00ppb d

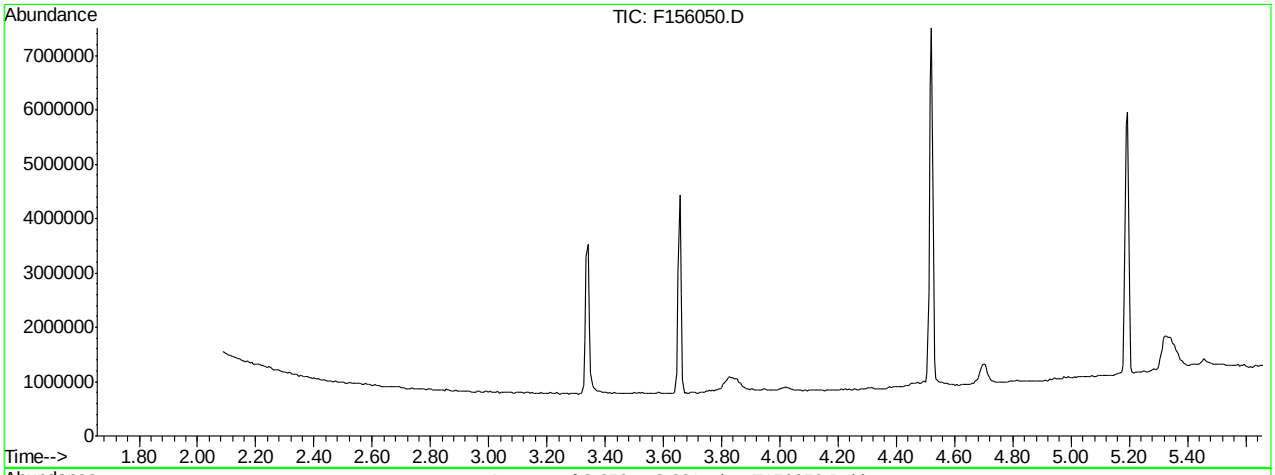
response 0

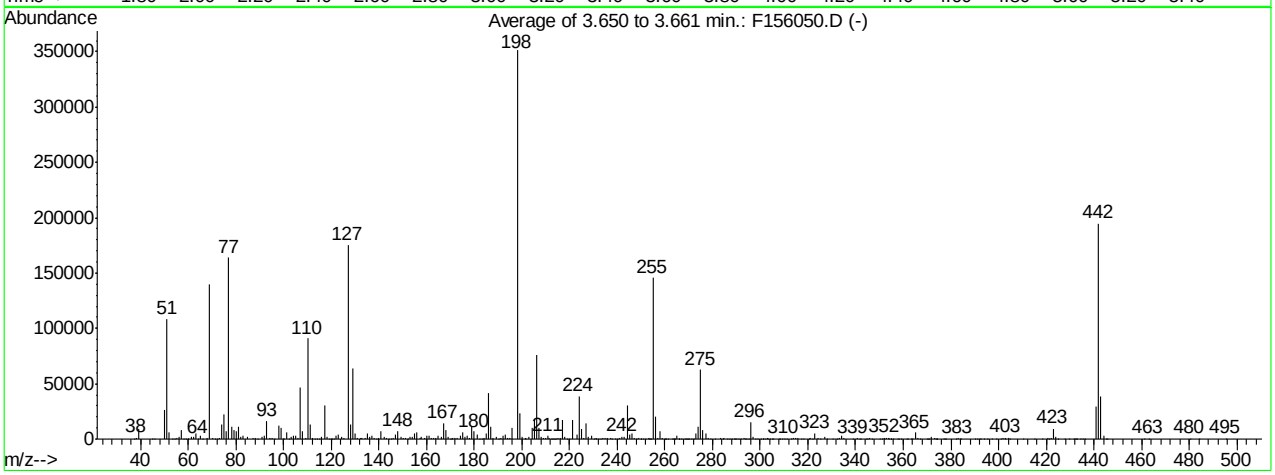
Ion	Exp%	Act%
235.00	100	0.00
165.00	93.70	0.00
237.00	85.60	0.00
0.00	0.00	0.00

SGS ACCUTEST JC20098

DFTPP

Data File : C:\MSDCHEM\1\DATA\EF6563\F156050.D Vial: 1
Acq On : 4 Apr 2016 6:54 pm Operator: sarad
Sample : dftpp Inst : MSF
Misc : op92661,ef6563,100 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 294, 295, 296; Background Corrected with Scan 289

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	30.9	108584	PASS
68	69	0.00	2	0.4	596	PASS
69	198	0.00	100	39.9	140032	PASS
70	69	0.00	2	0.5	642	PASS
127	198	40	60	50.0	175460	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	351082	PASS
199	198	5	9	6.6	23024	PASS
275	198	10	30	17.8	62466	PASS
365	198	1	100	1.6	5730	PASS
441	443	0.10	100	76.5	29498	PASS
442	198	40	100	55.5	194704	PASS
443	442	17	23	19.8	38575	PASS

F156050.D DFTPPF.M Tue Apr 05 08:58:18 2016 RT1

Average of 3.650 to 3.661 min.: F156050.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
37.10	121	56.10	2199	66.00	127	78.10	11499
38.10	1475	57.10	8176	68.05	596	79.05	8614
39.10	9324	58.10	323	69.00	140032	80.05	7248
45.00	511	59.05	46	70.05	642	81.05	10934
45.90	115	60.00	329	71.10	195	82.00	2181
50.10	26475	60.10	39	72.00	349	83.00	3331
51.10	108584	61.10	1880	73.05	1066	85.05	2334
52.05	5725	62.05	1771	74.10	12924	87.00	1216
53.10	215	63.05	4830	75.05	21814	88.00	1338
54.10	62	64.05	543	76.10	7484	89.05	289
55.10	911	65.10	2744	77.05	163988	91.00	2470

Average of 3.650 to 3.661 min.: F156050.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
92.05	2633	103.00	1713	113.85	350	124.10	1768
93.00	16334	104.05	3481	114.90	344	125.05	1397
94.10	1243	105.00	3203	115.95	2130	127.00	175460
95.10	687	106.10	1218	117.05	30135	128.00	12823
96.05	297	107.05	46722	118.00	2399	129.00	64327
98.00	11699	108.05	6997	119.00	151	129.95	5600
99.00	10166	109.10	753	120.00	387	131.05	599
99.90	353	110.00	90877	120.20	319	132.10	620
100.10	429	111.05	13190	121.15	409	133.00	595
101.05	5906	112.05	1333	122.00	2582	134.00	1539
102.00	451	113.00	458	123.00	3857	135.00	4877

Average of 3.650 to 3.661 min.: F156050.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
136.05	1744	147.05	4585	157.95	1596	169.00	1573
137.10	2951	147.95	7382	159.00	1240	170.10	239
138.00	646	149.05	1699	160.05	2858	170.30	64
138.90	204	150.00	628	161.00	2965	170.95	1211
140.05	843	151.05	1260	162.00	774	172.00	1359
141.00	6969	151.95	410	163.00	610	173.00	1278
142.00	2410	153.00	1882	164.00	741	174.05	3573
143.00	1540	154.05	1929	164.95	2736	175.05	5852
144.05	466	155.10	4621	166.00	2181	176.05	2477
145.00	528	156.05	6490	167.00	14623	177.00	2801
146.05	1548	157.10	1173	168.05	8099	177.95	1127

Average of 3.650 to 3.661 min.: F156050.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
179.00	11119	190.00	253	201.70	512	212.10	470
180.00	7086	191.05	899	203.00	1704	212.80	113
181.05	4124	192.00	3434	204.10	10276	213.10	360
182.00	455	193.05	3871	205.05	17348	213.70	51
183.05	461	194.05	910	206.10	75549	214.15	268
184.05	845	195.10	766	207.10	10008	214.90	577
185.05	5401	196.00	10568	208.05	1885	216.00	1141
186.10	41858	198.00	351082	209.00	601	217.00	17682
187.05	11420	199.00	23024	210.10	779	218.05	2187
188.05	931	199.95	1705	210.95	2624	219.00	209
189.05	1961	201.50	1343	211.55	1122	220.00	120

Average of 3.650 to 3.661 min.: F156050.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
221.05	16981	232.15	291	243.05	2187	253.00	879
223.00	4309	233.15	393	244.10	30309	253.25	26
224.00	38517	234.00	545	245.05	4332	253.80	466
225.10	9646	235.05	1129	246.00	4946	254.00	316

226.00	1104	236.00	714	247.05	1138	254.95	145383
227.00	14705	237.05	1154	248.00	436	256.00	20745
227.95	1957	237.80	56	248.95	897	256.95	1371
229.00	3117	239.05	301	249.90	236	258.00	7130
230.00	453	239.90	483	250.10	183	259.05	928
230.90	209	241.00	854	251.10	353	259.70	65
231.05	883	242.10	2069	251.90	364	260.05	182

Average of 3.650 to 3.661 min.: F156050.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
260.45	109	268.95	145	277.95	750	290.05	320
261.05	362	269.40	73	279.10	383	291.00	56
263.10	196	269.70	11	281.05	157	291.90	94
263.75	135	270.00	200	283.10	590	293.00	1314
264.00	199	271.00	363	284.10	413	293.90	81
264.20	127	272.00	387	284.95	670	294.10	199
264.95	2896	273.00	4768	286.25	243	294.90	201
265.70	276	273.95	11030	287.10	176	296.00	15656
266.00	166	275.00	62466	288.10	57	297.05	2264
267.10	268	276.00	8219	289.10	71	298.00	101
268.20	186	277.00	4810	289.25	277	298.70	52

Average of 3.650 to 3.661 min.: F156050.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
300.10	165	309.10	264	322.00	194	338.90	94
301.00	186	310.10	323	323.00	5205	340.95	626
301.20	67	311.00	66	324.05	1075	341.80	104
302.05	269	313.20	206	325.10	92	342.10	77
302.90	452	314.05	642	327.00	1660	344.30	67
303.05	1367	315.00	1345	328.00	316	344.80	55
303.90	401	315.95	1017	330.20	64	345.95	1123
304.80	118	317.00	123	332.05	295	346.95	337
305.30	72	318.10	97	333.00	554	350.30	57
307.90	97	320.30	55	334.00	3443	351.00	53
308.10	100	321.00	739	335.00	659	351.90	190

Average of 3.650 to 3.661 min.: F156050.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
352.10	1136	361.80	50	373.70	51	390.95	261
353.00	850	363.20	93	374.10	93	392.00	63
353.90	238	363.80	64	374.30	83	392.30	58
354.05	1167	365.00	5730	376.90	190	393.90	123
354.90	54	366.00	971	377.50	52	395.10	58
355.05	273	367.05	161	378.10	53	397.10	51
356.00	53	370.00	168	382.10	54	399.10	78
357.60	67	370.30	97	383.00	761	400.95	208
357.90	60	370.75	263	383.85	127	401.95	995
358.90	65	372.00	1944	384.10	53	402.80	239
361.20	167	373.00	674	390.05	446	403.00	1403

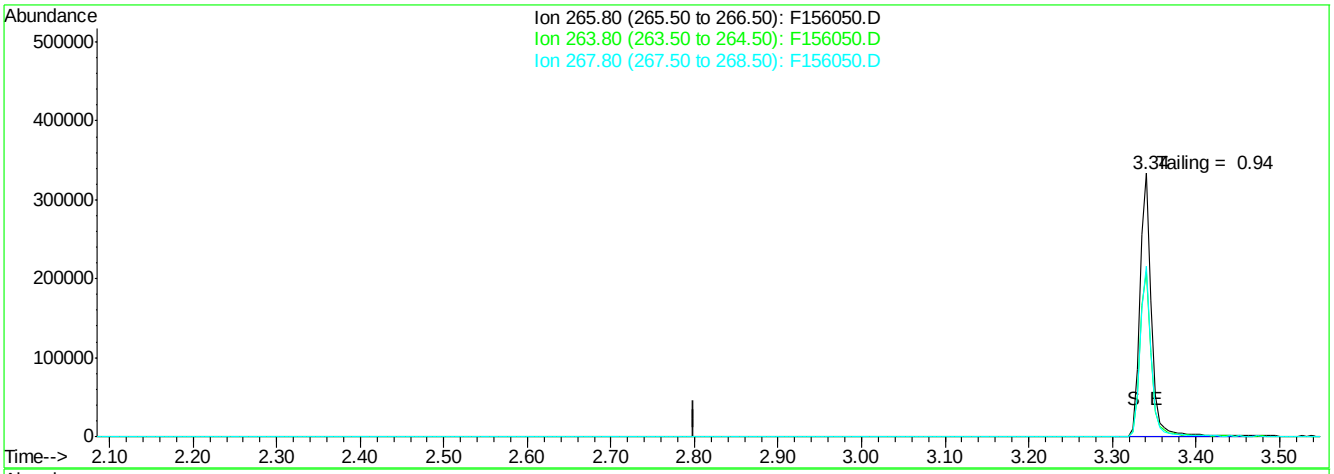
Average of 3.650 to 3.661 min.: F156050.D
dftpp
Modified:subtracted

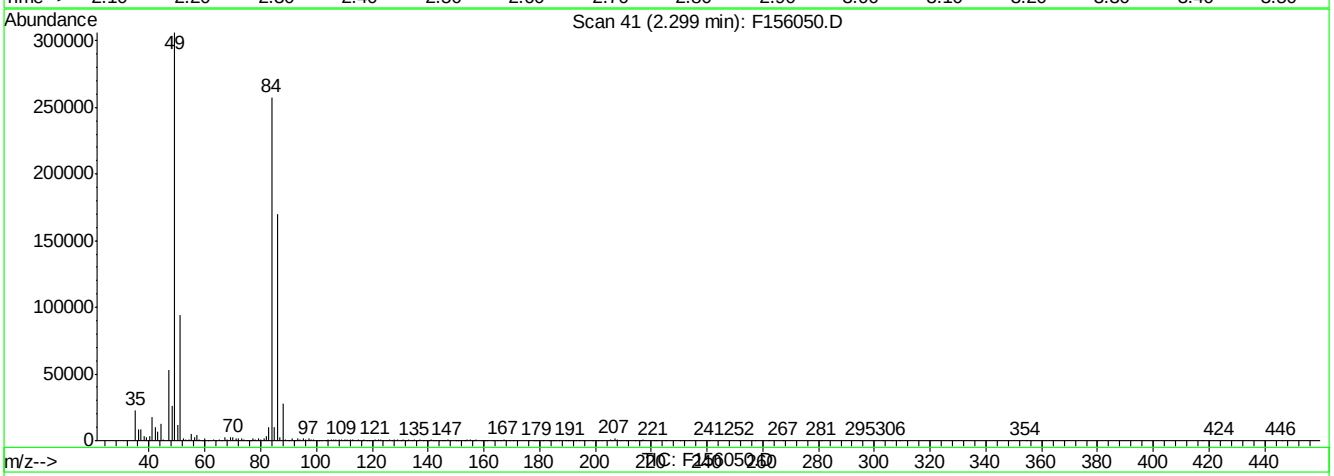
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
404.00	584	427.70	83	443.00	38575		
404.80	65	429.40	79	444.05	3498		
410.40	50	431.40	71	445.05	222		
415.10	112	432.10	134	445.50	51		
418.40	66	432.50	63	461.20	56		
420.90	861	432.90	122	463.00	83		
421.10	526	434.30	156	480.40	92		
421.95	1059	435.20	63	484.20	64		
423.00	9553	436.00	65	495.30	60		
424.00	2146	441.00	29498				
425.05	126	442.00	194704				

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156050.D Vial: 1
Acq On : 4 Apr 2016 6:54 pm Operator: sarad
Sample : dftpp Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 4 19:00 2016 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 : Thu Mar 24 11:46:42 2016
Response via : Multiple Level Calibration





(1) Pentachlorophenol (t)

2.30min 0.00ppb

response 0

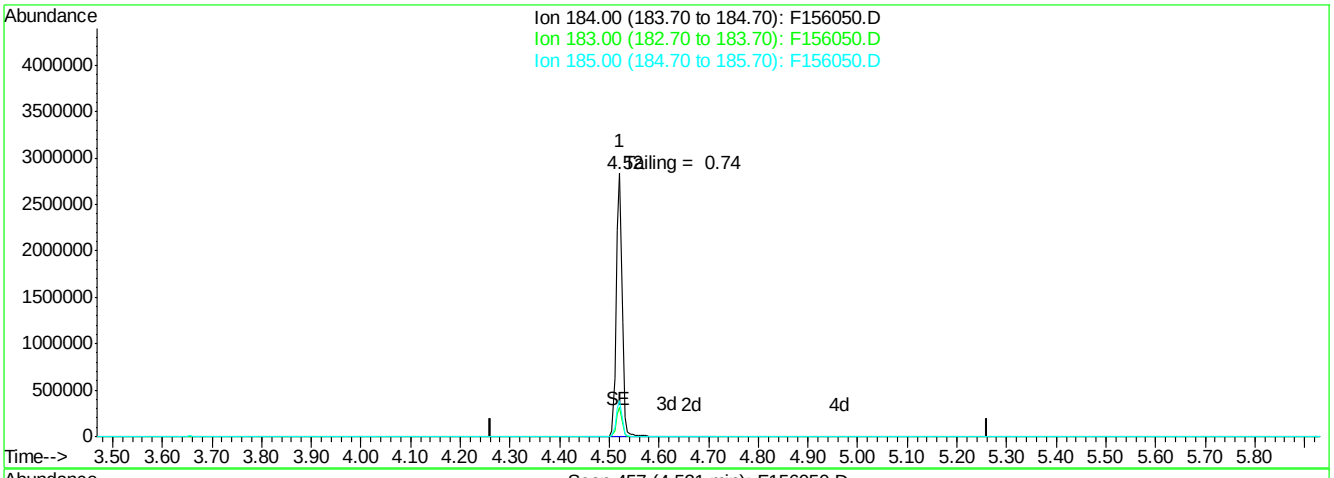
Ion	Exp%	Act%
265.80	100	0.00
263.80	63.00	0.00#
267.80	64.80	0.00#
0.00	0.00	0.00

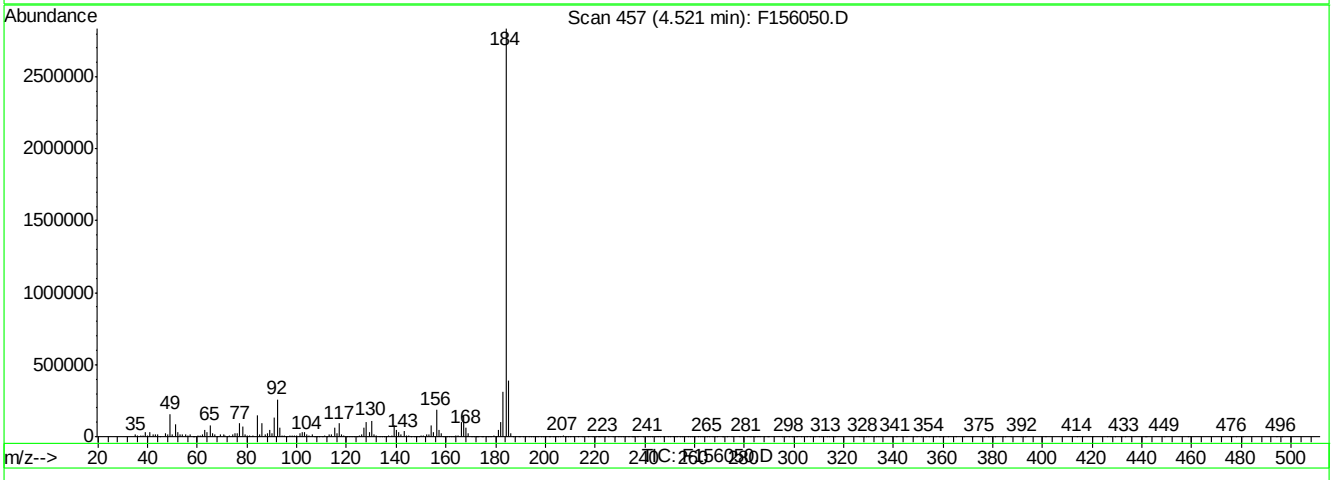
F156050.D DFTPPF.M Mon Apr 04 19:01:22 2016 RT1

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156050.D Vial: 1
Acq On : 4 Apr 2016 6:54 pm Operator: sarad
Sample : dftpp Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 4 19:01 2016 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 : Thu Mar 24 11:46:42 2016
Response via : Multiple Level Calibration





(2) Benzidine (t)

4.52min 125.89ppb

response 2358304

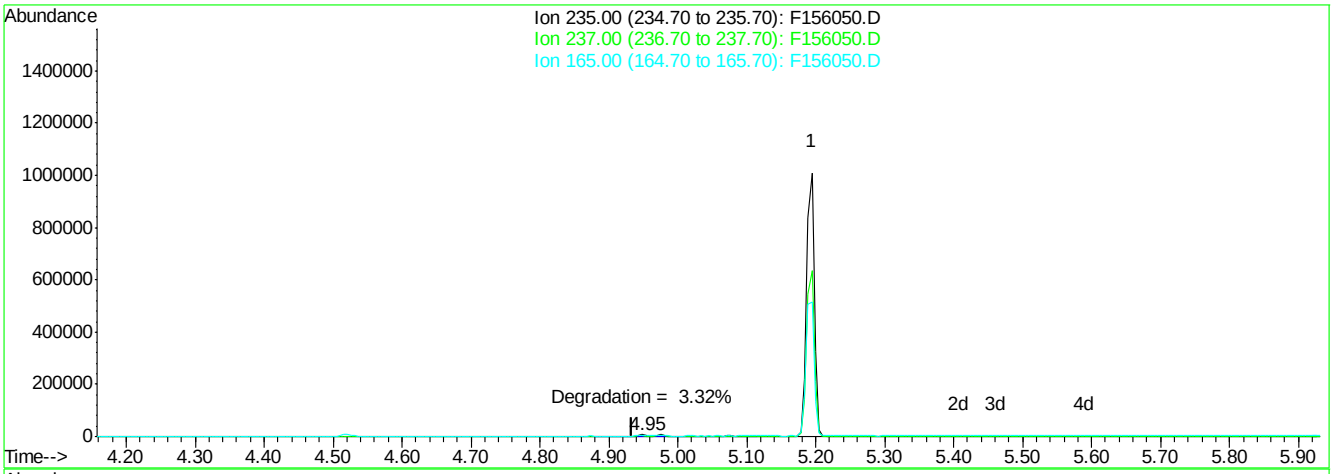
Ion	Exp%	Act%
184.00	100	100
183.00	12.60	10.87
185.00	16.20	13.85
0.00	0.00	0.00

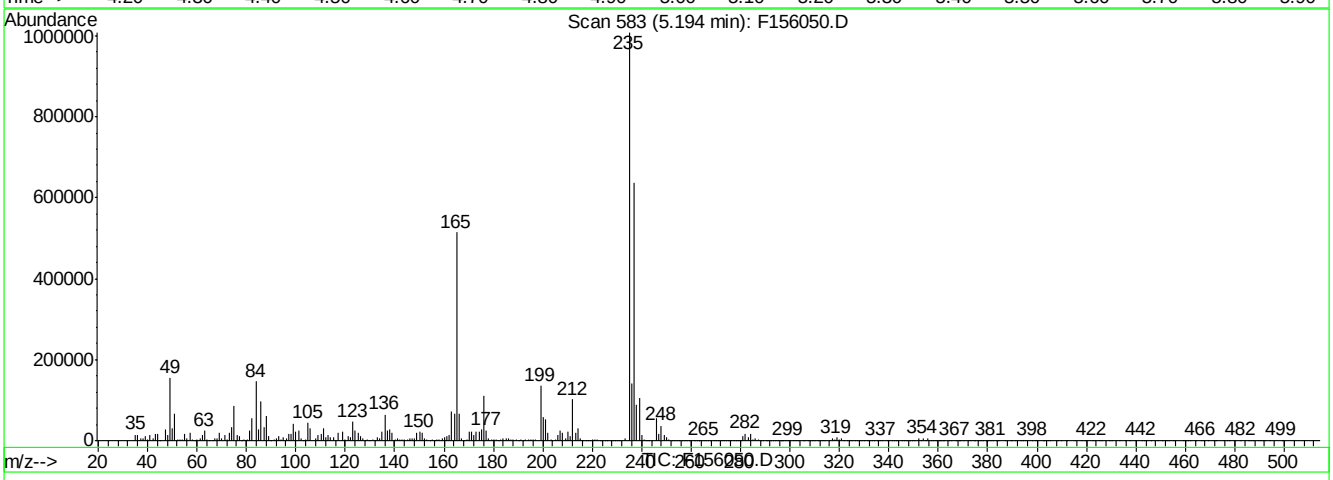
F156050.D DFTPPF.M Mon Apr 04 19:01:32 2016 RT1

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156050.D Vial: 1
Acq On : 4 Apr 2016 6:54 pm Operator: sarad
Sample : dftpp Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 4 19:01 2016 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 : Thu Mar 24 11:46:42 2016
Response via : Single Level Calibration





(3) ddt (t)

5.19min 50.20ppb

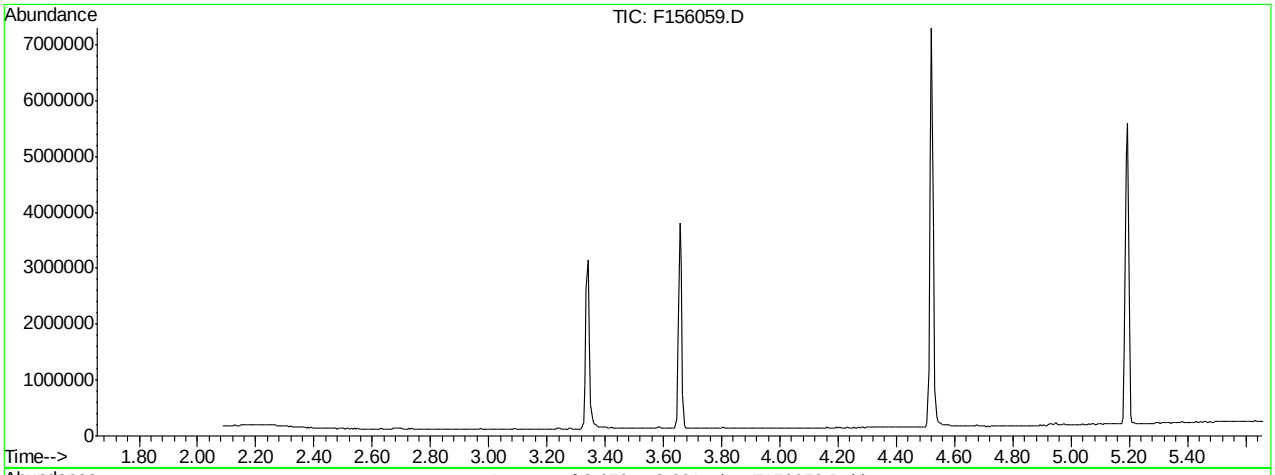
response 779578

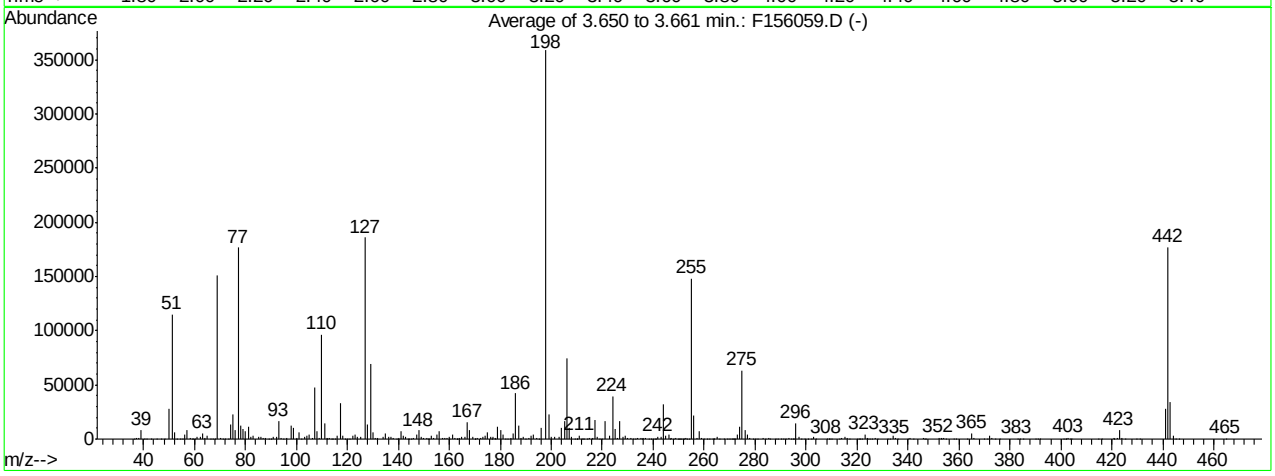
Ion	Exp%	Act%
235.00	100	100
237.00	66.70	64.25
165.00	59.50	54.99
0.00	0.00	0.00

F156050.D DFTPPF.M Mon Apr 04 19:01:45 2016 RT1

DFTPP

Data File : C:\MSDCHEM\1\DATA\EF6564\F156059.D Vial: 1
Acq On : 4 Apr 2016 11:06 pm Operator: sarad
Sample : dftpp Inst : MSF
Misc : op92661,ef6564,100 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 294, 295, 296; Background Corrected with Scan 289

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	32.1	115179	PASS
68	69	0.00	2	0.1	157	PASS
69	198	0.00	100	42.2	151437	PASS
70	69	0.00	2	0.5	785	PASS
127	198	40	60	51.9	186202	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	358677	PASS
199	198	5	9	6.5	23181	PASS
275	198	10	30	17.7	63472	PASS
365	198	1	100	1.5	5413	PASS
441	443	0.10	100	79.8	27575	PASS
442	198	40	100	49.5	177434	PASS
443	442	17	23	19.5	34561	PASS

F156059.D DFTPPF.M Tue Apr 05 09:44:21 2016 RT1

Average of 3.650 to 3.661 min.: F156059.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.10	101	51.10	115179	61.10	1746	71.80	73
37.10	647	52.10	6200	62.10	1793	73.10	554
38.10	1311	53.10	252	63.10	5611	74.10	13037
39.05	8323	54.15	204	64.10	860	75.10	23122
40.05	441	55.10	276	65.10	2866	76.05	8284
41.10	389	56.10	3758	66.10	219	77.10	176491
43.10	114	57.10	8251	67.10	39	78.10	12704
45.10	71	58.10	758	68.00	157	79.10	9634
47.05	483	59.05	34	69.00	151437	80.05	7703
48.05	346	59.40	63	70.05	785	81.00	11177
50.05	27956	60.10	262	71.20	313	82.00	2523

Average of 3.650 to 3.661 min.: F156059.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
83.10	2967	95.00	10	107.05	47593	116.05	2895
85.05	2033	96.05	697	108.05	7381	117.05	33243
86.00	2359	98.00	12220	109.05	1263	118.00	2779
87.00	1087	99.00	10890	110.00	96688	118.95	407
88.00	960	100.05	1205	111.00	14437	120.00	256
89.10	159	101.00	5862	111.90	459	121.00	284
90.00	72	102.00	482	112.05	1342	122.00	3048
91.00	2335	103.00	2269	112.90	627	123.05	4441
92.05	2422	104.05	3609	113.80	79	124.00	1683
93.05	17061	105.05	3684	114.00	101	125.00	2068
94.05	1272	106.10	1410	115.10	289	127.00	186202

Average of 3.650 to 3.661 min.: F156059.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
128.00	13730	139.95	594	149.95	896	159.90	554
128.95	69021	141.00	7558	151.05	1092	160.05	2046
130.00	5740	142.05	2861	151.60	283	161.05	3971
131.00	1240	142.95	1628	152.05	256	162.00	830
131.95	628	143.70	136	153.00	2738	162.85	316
134.00	1770	144.10	522	154.00	1359	163.10	248
135.00	5452	145.05	535	155.05	4416	164.05	629
136.05	2251	146.00	1211	156.05	6855	165.00	2524
137.05	2589	147.00	3706	157.15	1431	166.00	2604
138.10	583	148.00	8220	158.00	1275	167.05	15875
139.15	306	149.00	2077	159.00	1316	168.05	8364

Average of 3.650 to 3.661 min.: F156059.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
169.05	1700	177.90	192	188.10	1460	200.05	1677
170.00	168	178.05	832	189.00	2476	201.50	1904
170.25	453	179.00	11250	190.00	484	203.00	2172
171.00	804	180.05	7935	191.00	1054	204.00	10164
172.05	1051	181.05	4199	192.05	3300	205.05	17072
173.05	2277	181.95	497	193.05	4197	206.10	74245
174.00	2790	182.95	497	194.05	878	207.00	9933
175.05	6057	184.05	737	195.05	522	208.00	1997
176.05	1945	185.05	5325	196.00	10444	209.05	410
176.80	323	186.05	42413	198.00	358677	210.00	511
177.00	2145	187.05	12306	199.00	23181	210.30	455

Average of 3.650 to 3.661 min.: F156059.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
211.10	3591	219.80	171	232.00	337	240.95	501
211.90	163	221.05	16562	233.05	423	242.00	2453
212.10	158	223.00	3383	234.00	1016	243.05	2298
212.90	178	224.10	39349	235.00	1402	244.05	31834

214.20	57	225.05	9461	235.80	58	245.05	3589
215.00	855	226.05	1111	236.00	583	246.00	4699
215.90	205	227.00	16124	236.95	1420	246.70	89
216.05	1263	228.00	2042	238.05	330	247.05	1194
217.00	17655	229.00	3218	239.05	433	248.00	266
218.05	2283	229.95	590	239.95	427	248.90	1065
218.95	274	231.05	1351	240.80	107	249.85	224

Average of 3.650 to 3.661 min.: F156059.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
250.10	96	258.00	7545	268.90	54	277.95	633
250.70	225	259.00	1105	269.95	238	279.05	217
251.15	272	260.00	189	270.80	257	280.10	51
251.70	87	261.00	329	271.10	131	281.05	415
252.05	297	262.10	88	271.70	172	283.00	831
253.00	871	263.50	65	272.15	265	284.10	523
253.40	315	263.80	165	273.00	4245	285.15	817
254.00	454	264.00	143	274.00	11599	286.00	94
255.00	148034	265.05	2447	275.00	63472	288.00	54
256.00	22204	265.90	496	276.00	8397	288.85	195
257.00	1309	267.90	152	277.05	4502	290.20	61

Average of 3.650 to 3.661 min.: F156059.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
290.95	149	302.10	247	316.95	205	328.00	470
291.95	186	303.00	1987	320.20	51	332.10	412
293.05	1451	303.90	551	320.90	173	333.00	465
293.95	367	308.10	364	321.10	267	334.00	3432
294.90	70	309.00	106	322.05	284	335.05	767
295.10	145	309.20	88	323.05	4529	336.00	79
296.00	14754	309.95	185	323.90	146	340.00	178
297.05	2016	312.90	78	324.05	772	340.95	617
298.00	100	314.10	894	325.05	115	342.10	63
299.30	58	315.05	1782	326.00	63	346.05	1077
300.90	122	316.00	1001	326.95	849	346.70	169

Average of 3.650 to 3.661 min.: F156059.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
347.00	116	370.00	203	392.00	178	422.00	1337
352.00	1458	371.00	426	401.00	53	423.00	8310
352.90	88	372.05	2666	401.85	228	424.05	1589
353.05	1025	373.05	614	402.10	351	425.05	283
354.00	1462	374.00	76	403.00	1361	429.80	115
354.95	374	376.10	64	403.80	56	430.90	52
357.90	59	383.00	543	404.10	504	441.00	27575
358.95	197	383.80	175	414.90	69	442.00	177434
363.00	72	385.00	114	416.00	57	443.00	34561
365.00	5413	389.95	280	420.70	147	444.00	3599
366.00	914	390.90	385	421.00	983	445.00	148

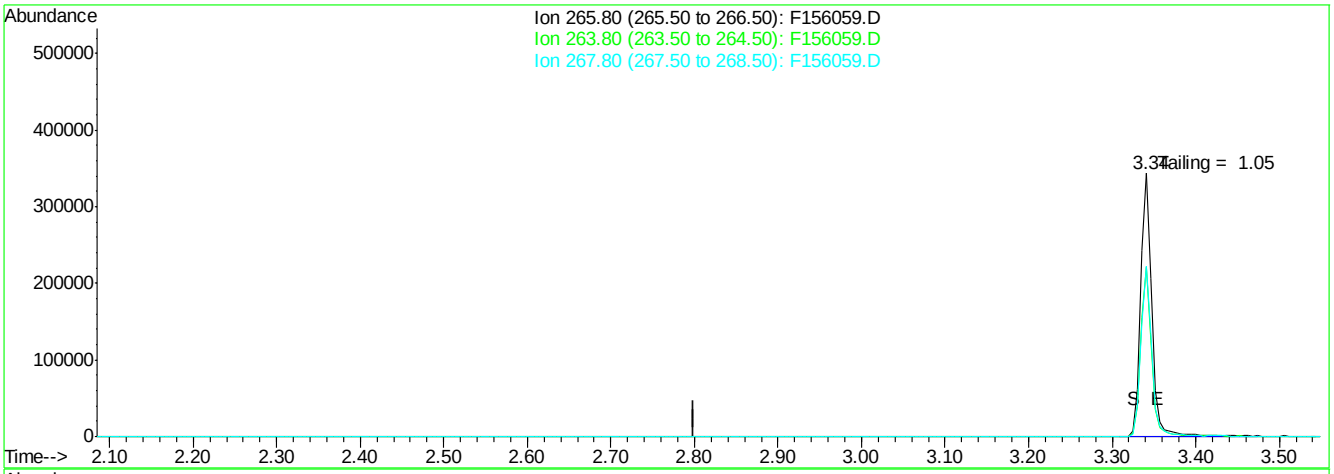
Average of 3.650 to 3.661 min.: F156059.D
dftpp
Modified:subtracted

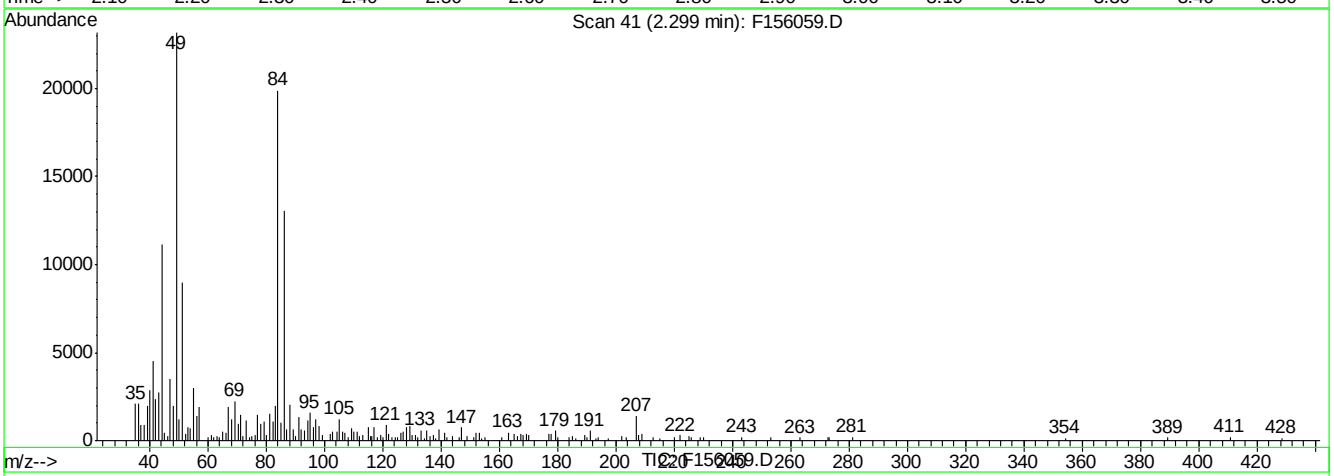
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
446.20	59						
464.70	59						

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156059.D Vial: 1
Acq On : 4 Apr 2016 11:06 pm Operator: sarad
Sample : dftpp Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 4 23:12 2016 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 : Thu Mar 24 11:46:42 2016
Response via : Multiple Level Calibration





(1) Pentachlorophenol (t)

2.30min 0.00ppb

response 0

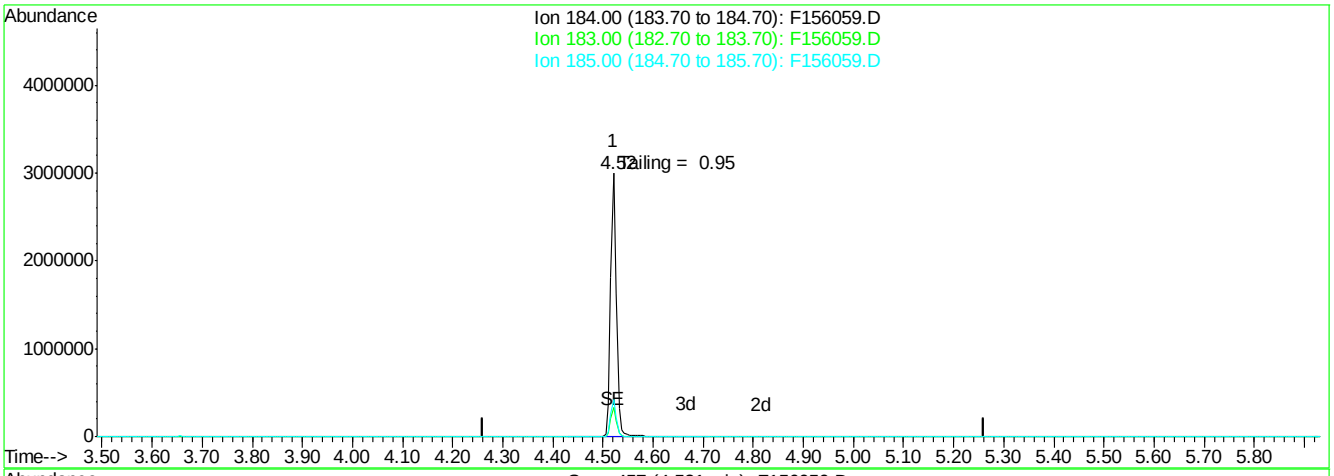
Ion	Exp%	Act%
265.80	100	0.00
263.80	63.00	0.00#
267.80	64.80	0.00#
0.00	0.00	0.00

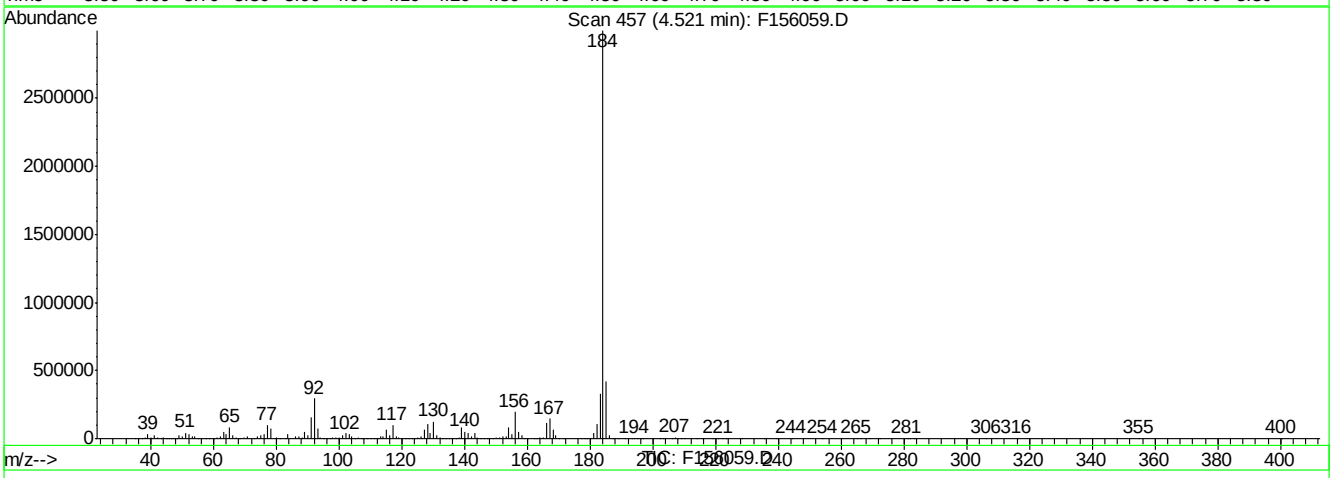
F156059.D DFTPPF.M Mon Apr 04 23:16:21 2016 RT1

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156059.D Vial: 1
Acq On : 4 Apr 2016 11:06 pm Operator: sarad
Sample : dftpp Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 4 23:12 2016 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 : Thu Mar 24 11:46:42 2016
Response via : Multiple Level Calibration





(2) Benzidine (t)

4.52min 127.15ppb

response 2381841

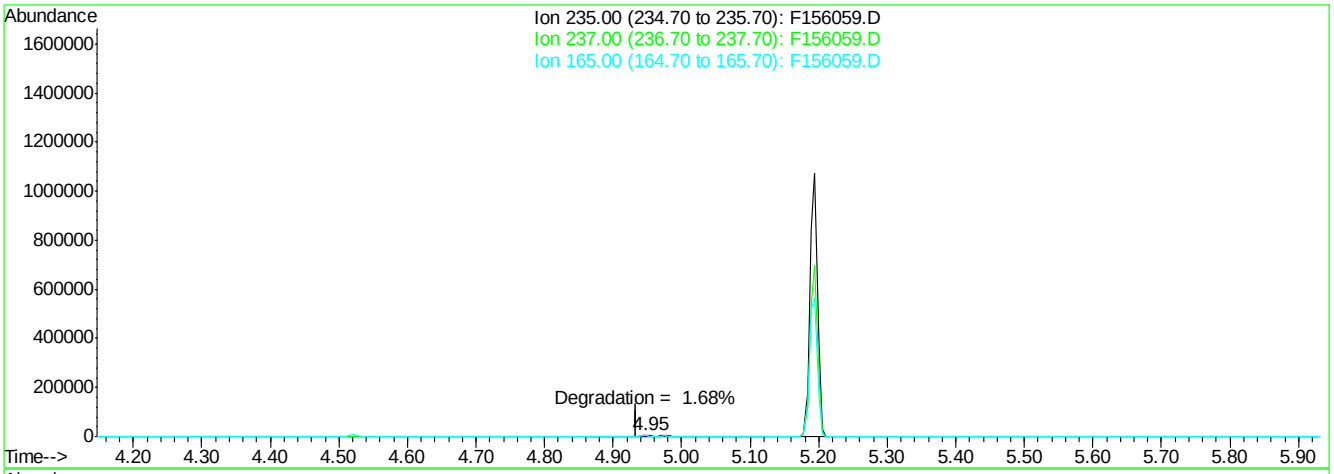
Ion	Exp%	Act%
184.00	100	100
183.00	12.60	10.83
185.00	16.20	13.82
0.00	0.00	0.00

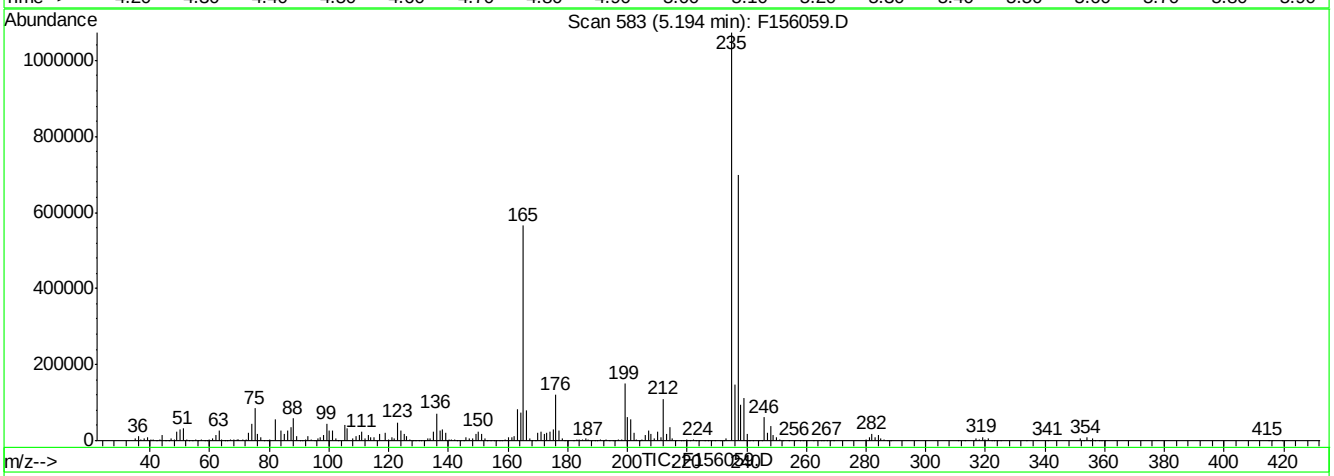
F156059.D DFTPPF.M Mon Apr 04 23:16:45 2016 RT1

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156059.D Vial: 1
Acq On : 4 Apr 2016 11:06 pm Operator: sarad
Sample : dftpp Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 4 23:12 2016 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 : Thu Mar 24 11:46:42 2016
Response via : Single Level Calibration





(3) ddt (t)

5.19min 51.98ppb

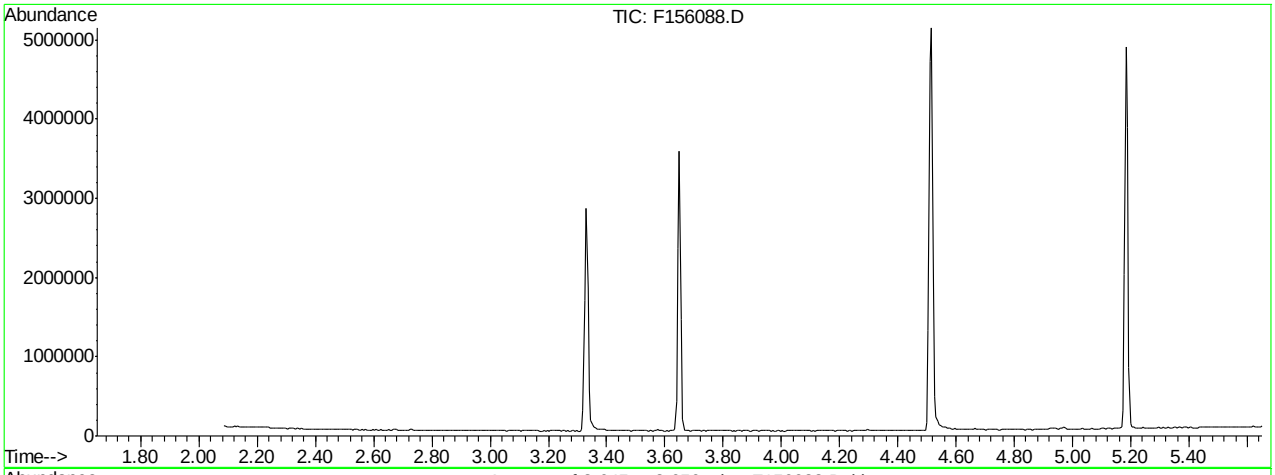
response 807232

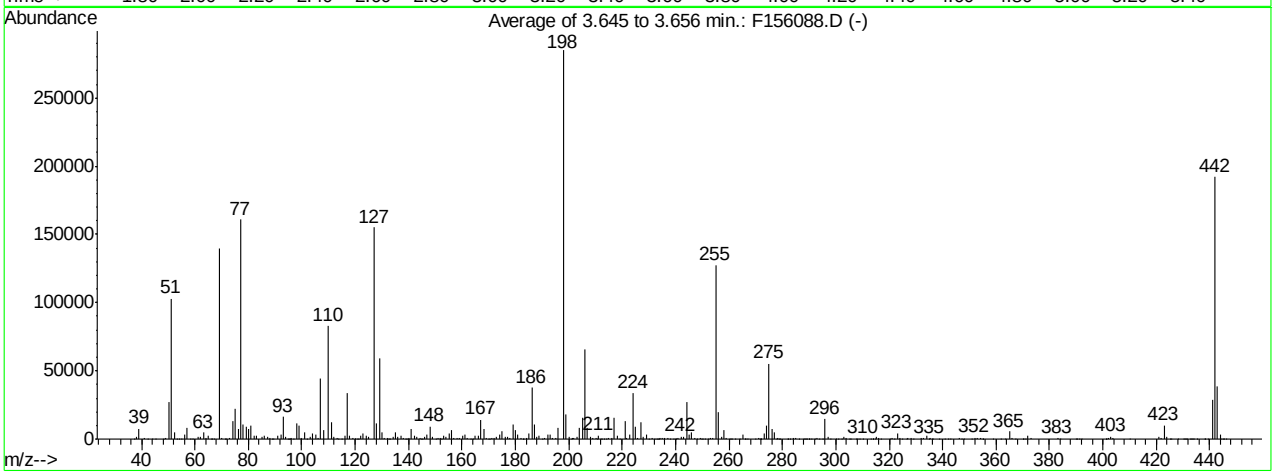
Ion	Exp%	Act%
235.00	100	100
237.00	66.70	64.82
165.00	59.50	55.83
0.00	0.00	0.00

F156059.D DFTPPF.M Mon Apr 04 23:16:54 2016 RT1

DFTPP

Data File : C:\MSDCHEM\1\DATA\EF6567\F156088.D Vial: 1
Acq On : 5 Apr 2016 6:00 pm Operator: ashleyd
Sample : dftpp Inst : MSF
Misc : op92661,ef6567 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 293, 294, 295; Background Corrected with Scan 288

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	36.1	102858	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	49.1	139965	PASS
70	69	0.00	2	0.5	764	PASS
127	198	40	60	54.5	155093	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	284778	PASS
199	198	5	9	6.4	18151	PASS
275	198	10	30	19.4	55232	PASS
365	198	1	100	1.9	5389	PASS
441	443	0.10	100	74.0	28740	PASS
442	198	40	100	67.5	192210	PASS
443	442	17	23	20.2	38818	PASS

F156088.D DFTPPF.M Fri Apr 08 16:29:12 2016 RT1

Average of 3.645 to 3.656 min.: F156088.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
37.05	422	52.15	5161	64.10	775	75.10	22161
38.10	1660	53.10	365	65.10	2825	76.15	7083
39.10	7784	53.90	50	66.00	72	77.10	160886
41.10	791	54.95	420	66.15	188	78.10	10930
42.20	116	56.10	3225	67.05	187	79.05	9279
44.10	315	57.05	7993	69.00	139965	80.00	7587
45.10	166	58.05	432	70.10	764	81.05	9790
48.00	164	59.05	112	71.05	136	82.10	2490
49.10	536	61.10	1593	71.80	56	83.00	2187
50.05	27320	62.10	1806	73.10	1142	85.05	1968
51.10	102858	63.10	4851	74.10	13287	86.00	2502

Average of 3.645 to 3.656 min.: F156088.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
87.05	1482	96.05	824	107.10	44368	118.90	475
88.00	469	96.95	24	108.05	6868	119.90	214
88.80	71	98.00	11504	110.00	82640	120.15	329
89.10	352	99.05	9765	111.05	12612	120.95	188
91.05	2330	100.00	753	112.00	1505	121.20	122
92.05	2954	101.00	5375	113.05	508	122.05	2348
93.00	16059	102.10	316	113.80	60	123.00	4021
94.00	1312	103.05	1449	114.75	165	124.05	2433
94.90	167	104.05	3890	116.10	2222	125.00	2039
95.10	168	105.10	3106	117.05	33584	127.10	155093
95.40	294	105.95	559	118.00	2268	128.10	11711

Average of 3.645 to 3.656 min.: F156088.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
129.00	59208	138.90	160	148.00	9076	158.10	1085
130.00	5206	139.10	111	149.00	1708	159.00	1147
130.95	1065	140.05	562	150.05	425	160.05	2284
132.05	459	141.05	7169	151.20	1208	161.10	3432
132.75	339	142.05	2414	151.70	525	162.10	1175
133.05	211	143.05	1603	152.10	233	163.00	402
134.10	1297	144.10	466	153.05	2092	164.00	363
135.05	4892	144.80	143	154.00	1787	165.05	2418
136.10	1858	145.05	325	155.10	4093	166.00	2135
137.00	2572	146.00	1329	156.10	6531	167.05	14023
137.90	830	147.00	3032	157.10	1044	168.05	7410

Average of 3.645 to 3.656 min.: F156088.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
169.10	1190	178.00	707	188.05	1274	200.10	1778
169.90	419	179.00	10755	189.00	2419	200.80	123
170.30	92	180.05	6796	190.00	346	201.40	812
171.05	879	181.00	2999	191.05	1220	201.70	599
172.05	1234	181.95	641	192.05	3064	203.00	1878
173.00	1613	182.80	134	193.00	3588	204.10	8551
174.10	3204	183.10	197	193.90	703	205.10	15920
175.10	5492	184.05	748	194.95	625	206.10	65842
176.10	1566	185.10	4417	196.05	8040	207.05	8584
176.90	864	186.10	37725	198.00	284778	208.00	1758
177.10	1510	187.10	10488	199.00	18151	209.00	492

Average of 3.645 to 3.656 min.: F156088.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
210.10	953	219.20	110	231.10	1223	240.00	115
210.50	388	221.05	13237	232.05	215	240.15	312
211.10	2663	221.70	523	232.95	278	241.05	998
211.90	185	223.00	3629	233.20	162	242.00	1829

212.20	77	224.10	33869	233.90	309	243.15	1575
213.00	97	225.05	8704	234.10	696	244.10	27274
214.10	52	225.90	831	235.05	1004	245.10	3432
214.95	570	227.00	12761	235.95	890	246.05	4873
216.00	1212	228.05	2041	237.00	1046	247.00	895
217.00	15507	229.05	3152	238.10	67	247.90	128
218.00	2173	229.80	302	239.00	436	249.05	776

Average of 3.645 to 3.656 min.: F156088.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
249.80	93	260.20	61	271.60	96	279.20	82
250.00	170	260.60	51	271.80	113	281.80	53
251.05	287	261.05	277	272.10	296	282.05	238
252.00	206	262.40	59	273.05	4058	283.00	317
253.05	816	263.80	214	274.00	9959	284.00	528
254.00	595	265.00	2944	275.00	55232	285.10	852
255.00	127522	266.00	188	276.10	7485	286.10	109
256.05	19434	266.15	298	277.00	4765	287.90	59
257.10	1335	266.95	140	277.90	393	288.10	52
258.00	6378	270.00	250	278.05	683	288.90	138
259.00	1069	270.95	457	278.80	80	289.20	56

Average of 3.645 to 3.656 min.: F156088.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
289.80	53	301.00	99	313.90	306	324.90	65
290.00	73	301.95	365	314.10	390	326.30	62
290.80	63	303.10	1857	314.80	284	327.00	766
291.95	169	304.00	489	315.05	1532	328.10	586
293.10	1244	305.05	133	316.00	843	328.90	67
293.95	289	305.70	50	317.05	160	331.95	697
294.90	108	307.80	194	320.00	62	333.00	508
296.00	14782	308.00	168	321.00	489	334.00	2716
296.95	1866	309.00	63	322.05	240	334.95	423
298.10	353	310.15	240	323.05	4530	335.20	468
300.00	58	312.90	65	324.05	1066	336.00	85

Average of 3.645 to 3.656 min.: F156088.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
336.25	148	354.05	1232	370.85	279	402.00	951
338.80	50	355.00	103	372.05	2563	403.05	1765
340.90	420	355.15	177	373.15	594	403.90	605
342.00	80	359.00	78	383.05	684	410.20	64
342.80	77	361.60	78	383.95	230	421.00	1693
346.05	977	363.30	63	389.95	284	421.95	1150
346.95	245	365.00	5389	390.20	100	423.00	10193
348.00	56	365.95	1063	391.05	307	424.10	1875
350.80	55	367.10	57	391.90	238	425.00	218
351.95	1195	370.00	63	401.05	168	425.70	124
353.05	845	370.30	84	401.40	86	428.20	100

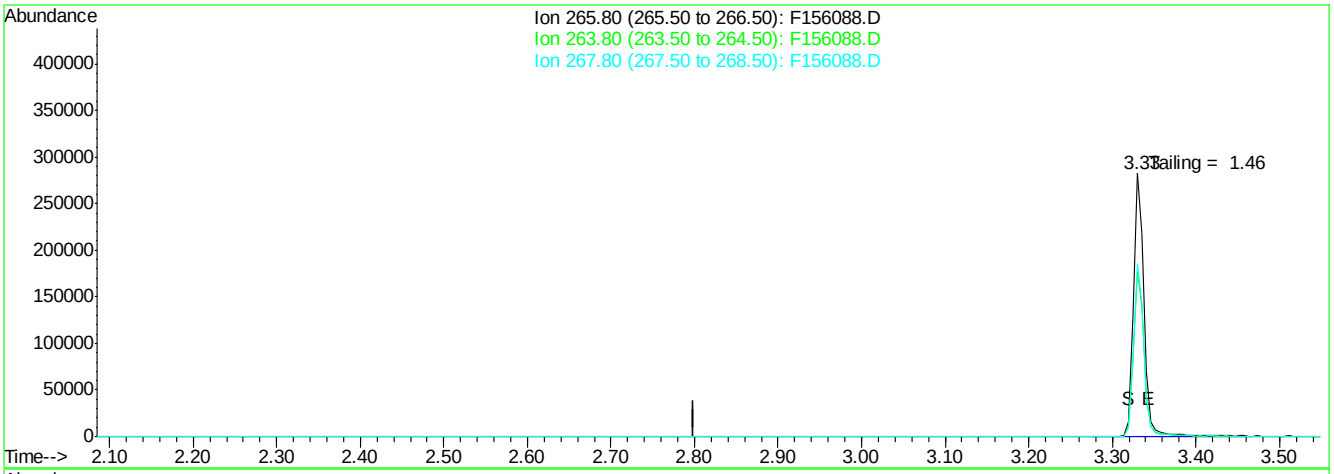
Average of 3.645 to 3.656 min.: F156088.D
dftpp
Modified:subtracted

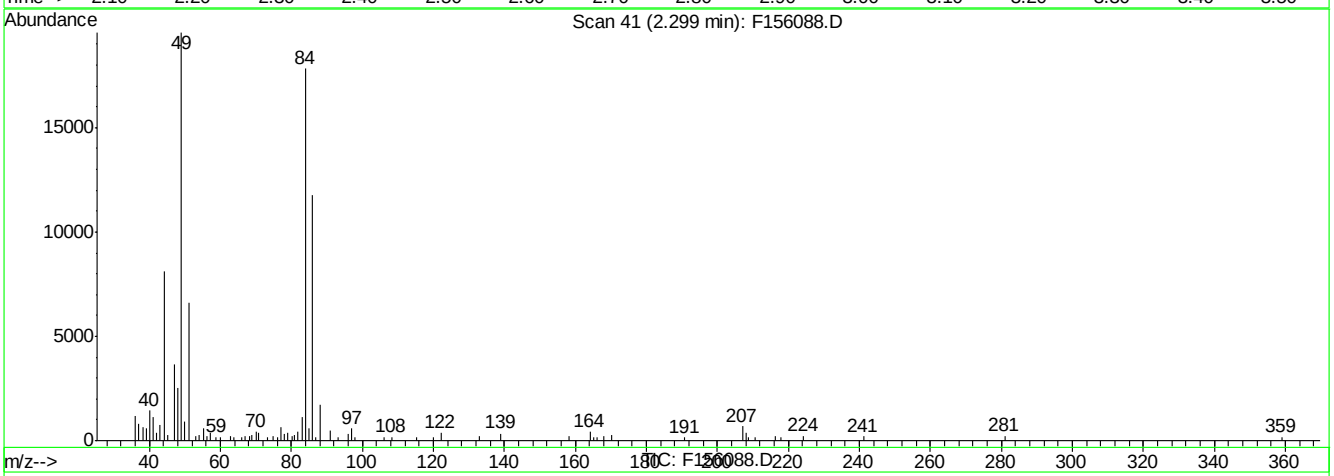
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
430.00	218	439.30	60				
430.50	68	441.05	28740				
431.10	89	442.00	192210				
431.45	133	443.00	38818				
432.65	134	443.90	401				
433.00	76	444.10	3354				
433.40	66	444.90	204				
433.90	59	445.20	184				
435.30	97	446.00	56				
438.10	60						
438.30	53						

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6567\F156088.D Vial: 1
Acq On : 5 Apr 2016 6:00 pm Operator: ashleyd
Sample : dftpp Inst : MSF
Misc : op92661,ef6567 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 5 18:06 2016 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 : Thu Mar 24 11:46:42 2016
Response via : Multiple Level Calibration





(1) Pentachlorophenol (t)

2.30min 0.00ppb

response 0

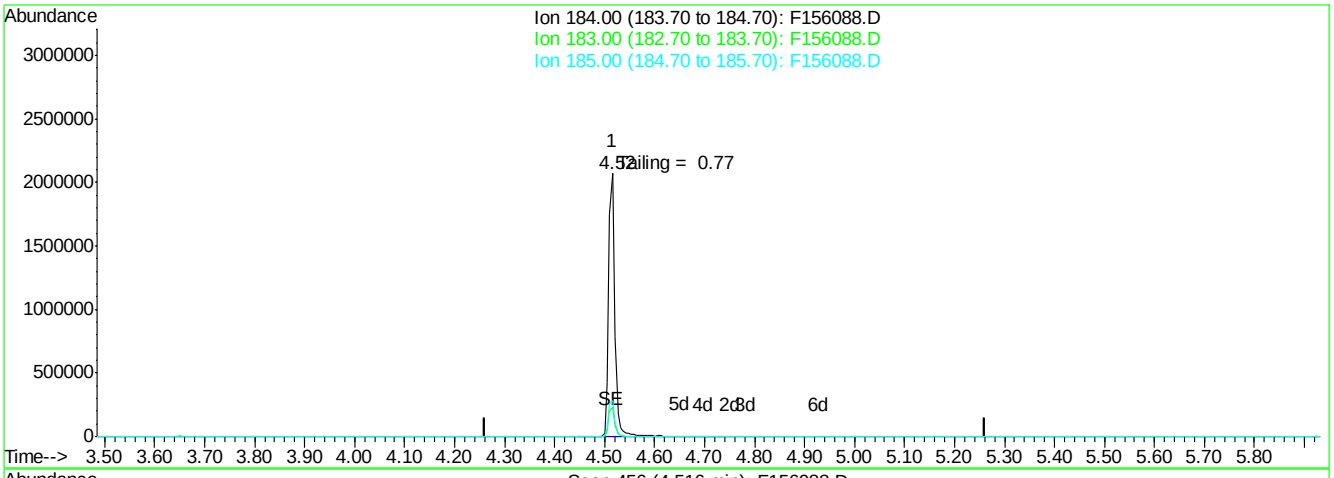
Ion	Exp%	Act%
265.80	100	0.00
263.80	63.00	0.00#
267.80	64.80	0.00#
0.00	0.00	0.00

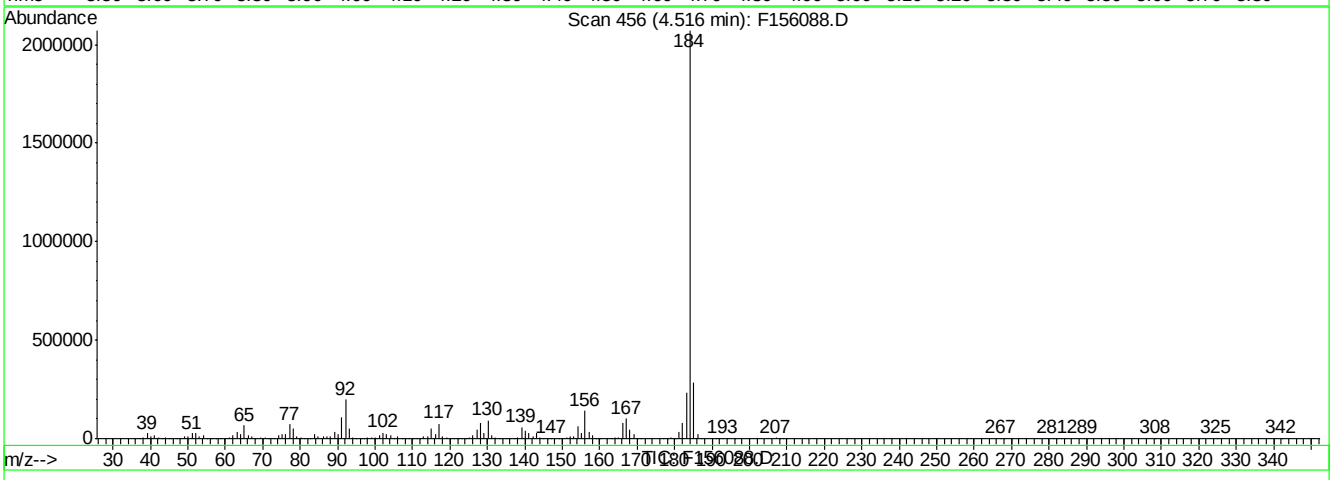
F156088.D DFTPPF.M Tue Apr 05 18:12:48 2016 RT1

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6567\F156088.D Vial: 1
Acq On : 5 Apr 2016 6:00 pm Operator: ashleyd
Sample : dftpp Inst : MSF
Misc : op92661,ef6567 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 5 18:06 2016 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 : Thu Mar 24 11:46:42 2016
Response via : Multiple Level Calibration





(2) Benzidine (t)

4.52min 94.58ppb

response 1771832

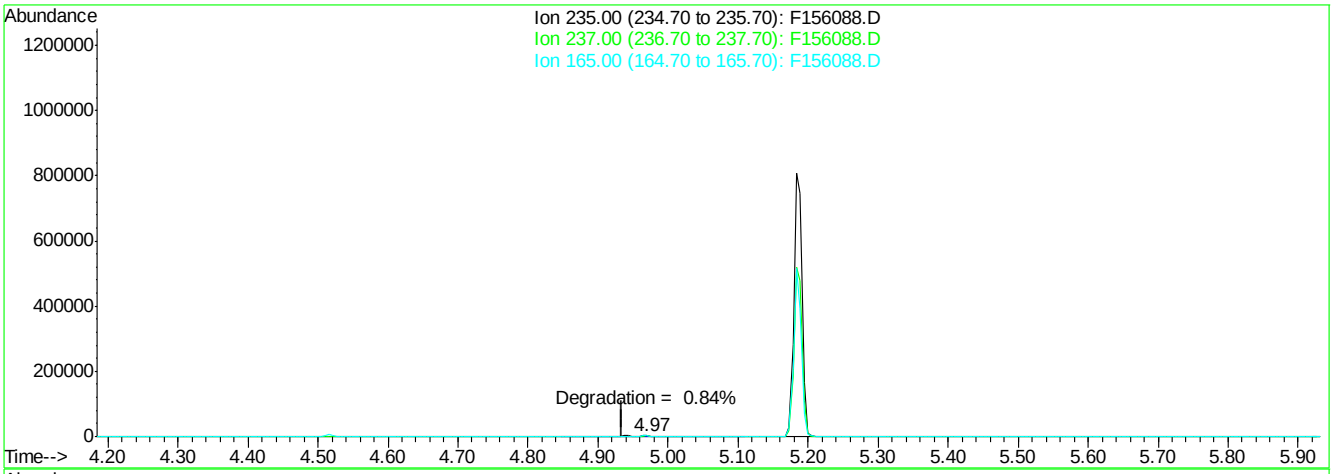
Ion	Exp%	Act%
184.00	100	100
183.00	12.60	11.25
185.00	16.20	14.07
0.00	0.00	0.00

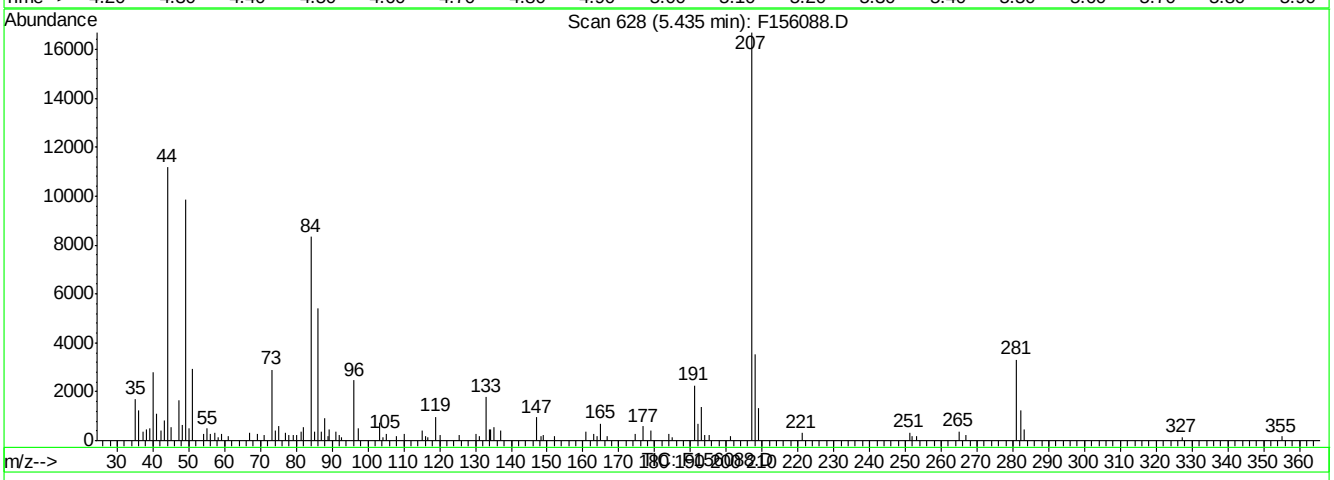
F156088.D DFTPPF.M Tue Apr 05 18:12:55 2016 RT1

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6567\F156088.D Vial: 1
Acq On : 5 Apr 2016 6:00 pm Operator: ashleyd
Sample : dftpp Inst : MSF
Misc : op92661,ef6567 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 5 18:06 2016 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 : Thu Mar 24 11:46:42 2016
Response via : Single Level Calibration





(3) ddt (t)

5.43min 0.00ppb

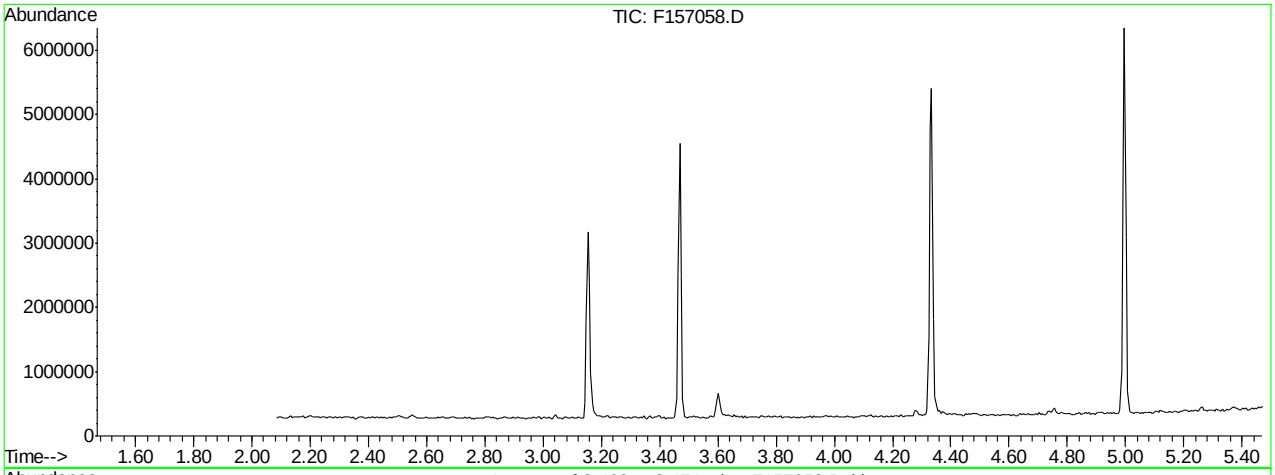
response 0

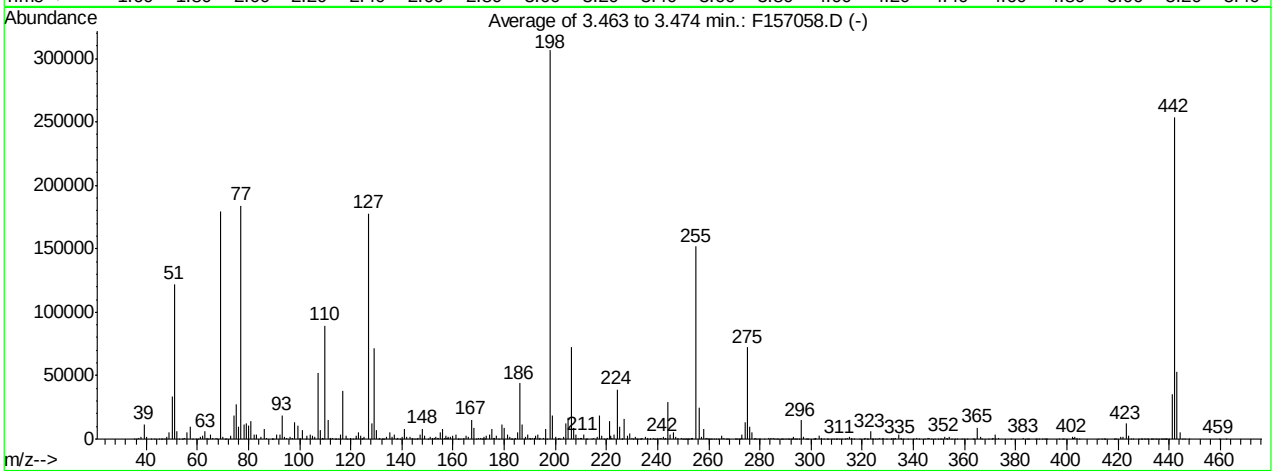
Ion	Exp%	Act%
235.00	100	0.00
237.00	66.70	0.00#
165.00	59.50	0.00#
0.00	0.00	0.00

F156088.D DFTPPF.M Tue Apr 05 18:13:03 2016 RT1

DFTPP

Data File : C:\MSDCHEM\1\DATA\EF6610\F157058.D Vial: 1
Acq On : 13 May 2016 8:43 am Operator: brittanp
Sample : dftpp Inst : MSF
Misc : op93756,ef6610 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 259, 260, 261; Background Corrected with Scan 254

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	39.9	122232	PASS
68	69	0.00	2	0.3	465	PASS
69	198	0.00	100	58.5	179125	PASS
70	69	0.00	2	1.1	1957	PASS
127	198	40	60	58.1	177871	PASS
197	198	0.00	1	0.1	227	PASS
198	198	100	100	100.0	306325	PASS
199	198	5	9	6.1	18641	PASS
275	198	10	30	23.7	72458	PASS
365	198	1	100	3.0	9202	PASS
441	443	0.10	100	66.8	35594	PASS
442	198	40	100	82.8	253717	PASS
443	442	17	23	21.0	53280	PASS

F157058.D DFTPPF.M Fri May 13 08:58:08 2016 RT1

Average of 3.463 to 3.474 min.: F157058.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.10	189	47.10	154	57.10	10174	67.10	1037
36.00	114	48.10	1461	58.00	54	67.90	465
37.05	1168	49.10	5141	59.20	320	69.05	179125
38.10	1768	50.10	33580	60.25	233	70.00	1957
39.10	11575	51.05	122232	61.10	1546	70.90	171
40.00	1423	52.15	5832	62.10	2250	71.10	406
42.00	385	53.05	80	63.05	5911	73.10	2966
43.10	118	54.00	160	64.00	1080	74.10	18646
45.00	347	54.30	56	64.20	185	75.10	27822
46.00	61	55.10	758	65.05	3835	76.15	9753
46.20	126	56.10	4963	66.00	675	77.10	183893

Average of 3.463 to 3.474 min.: F157058.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
78.05	11801	89.70	101	101.05	6940	111.05	15158
79.10	12237	91.15	3403	102.20	255	111.80	97
79.95	10382	92.15	3758	103.00	2869	112.05	1141
81.05	14277	93.10	18730	104.10	3867	113.00	801
82.05	3797	94.05	1922	105.10	3064	113.60	133
83.00	3487	94.90	671	106.00	1465	114.15	234
85.00	2221	96.15	1465	107.05	52201	115.20	195
86.00	8170	96.95	587	108.05	6951	116.10	3171
87.00	742	98.10	13017	108.80	307	117.05	38418
89.05	440	99.10	10322	109.10	648	118.00	3059
89.40	57	100.10	610	110.00	89365	118.80	238

Average of 3.463 to 3.474 min.: F157058.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
120.10	851	129.00	71325	137.80	308	146.15	1114
120.90	106	130.05	7161	138.10	1135	146.95	3955
122.00	796	130.90	114	139.10	272	148.05	8312
122.15	2511	131.10	810	140.05	1734	149.05	2243
123.00	5246	132.10	339	141.00	8062	150.10	393
124.00	2280	132.40	50	142.00	2006	150.90	1634
124.20	294	133.10	352	143.00	2195	151.75	779
124.80	657	134.00	1806	143.90	417	152.10	416
125.00	1666	135.05	5057	144.20	501	152.90	790
127.00	177871	136.00	1560	145.00	279	153.10	1801
128.05	12173	137.10	3421	145.90	393	153.90	1216

Average of 3.463 to 3.474 min.: F157058.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
154.20	856	161.80	420	171.30	188	179.05	11348
154.95	5275	162.10	327	171.70	53	180.05	8459
156.05	7728	163.00	432	172.05	1463	181.10	3693
156.80	646	164.05	707	172.30	124	182.15	1633
157.15	2253	165.05	2580	173.05	2641	182.70	340
157.40	641	166.00	2102	174.05	3653	183.00	400
157.95	1409	167.10	15441	175.15	7574	183.90	139
158.20	520	168.05	8467	176.00	678	184.15	797
159.00	1546	169.10	339	176.20	973	185.05	5369
159.95	3074	170.00	739	177.05	2857	186.10	43794
161.15	3941	170.95	851	177.90	127	187.10	11556

Average of 3.463 to 3.474 min.: F157058.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
187.90	163	195.10	1063	205.10	17128	215.15	1132
188.20	1463	196.05	8387	206.10	72754	216.15	1719
189.05	3546	196.80	227	207.10	8885	217.00	18395
189.90	139	198.00	306325	208.00	3261	218.00	2422

190.15	545	199.00	18641	209.05	1351	219.15	256
191.00	1076	200.05	2049	209.95	1013	220.20	534
191.80	559	201.10	277	210.35	544	221.05	14235
192.15	2361	201.30	1160	211.05	3525	221.75	2931
193.10	3594	201.75	366	211.90	111	222.20	751
193.70	159	203.10	2164	212.30	424	223.10	3672
194.05	1110	204.10	12427	214.00	153	224.05	39290

Average of 3.463 to 3.474 min.: F157058.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
225.10	10095	232.90	278	240.95	538	249.80	210
225.90	156	233.40	114	241.15	525	250.10	220
226.20	412	233.95	1079	242.00	1804	250.70	167
227.05	16185	235.00	2100	242.80	371	251.10	238
228.05	2335	236.00	563	242.95	1251	251.30	110
229.05	4262	236.90	462	244.10	28962	251.80	302
230.00	535	237.15	331	245.05	3956	252.10	56
230.30	138	238.05	604	246.05	4966	253.00	456
231.05	1695	238.80	217	246.95	1617	253.25	913
231.85	297	239.15	243	248.00	583	253.65	675
232.10	126	240.05	723	249.10	1167	255.05	151770

Average of 3.463 to 3.474 min.: F157058.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
256.05	24682	263.75	32	272.10	166	280.10	58
256.95	1510	264.90	685	272.90	1180	281.85	328
258.05	8403	265.15	2456	273.05	3707	283.20	523
258.80	1000	266.00	827	274.05	13213	284.20	726
259.10	969	266.80	179	275.10	72458	285.00	1283
259.80	82	267.40	200	276.05	9481	285.80	385
260.20	89	267.75	28	277.00	5088	286.30	209
260.80	57	270.10	134	277.90	424	287.10	104
261.15	223	270.70	404	278.20	984	288.15	189
262.10	89	270.95	195	278.50	183	288.80	138
262.80	207	271.90	387	279.30	86	289.00	97

Average of 3.463 to 3.474 min.: F157058.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
290.10	205	297.05	1779	306.10	98	316.00	815
290.70	152	297.80	123	306.80	241	316.90	238
291.10	161	298.10	223	308.00	221	318.70	70
292.00	401	298.90	161	308.80	61	320.70	156
292.70	170	300.90	246	309.80	110	321.05	588
293.10	1679	301.20	141	310.30	256	321.90	113
293.70	177	301.60	67	311.15	274	322.20	314
294.00	199	302.00	501	311.70	54	323.10	5851
294.30	369	303.05	2361	313.15	212	323.95	381
295.10	56	304.10	732	314.10	1178	324.30	164
296.05	14842	305.00	137	315.15	2177	325.10	93

Average of 3.463 to 3.474 min.: F157058.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
326.10	155	335.00	790	348.20	124	359.00	117
326.85	908	335.20	464	349.70	113	359.70	95
327.60	60	335.95	267	350.40	97	360.85	180
328.05	872	337.90	320	351.00	144	363.40	56
329.30	69	339.80	54	352.10	2119	363.80	99
331.10	67	341.15	1127	352.90	182	365.00	9202
331.40	186	342.20	106	353.20	1326	366.10	1434
332.10	558	344.20	274	354.15	1749	366.70	62
332.50	168	345.80	542	355.00	441	369.40	100
333.10	744	346.00	760	356.25	428	370.85	337
334.05	3557	346.90	274	357.00	72	371.10	658

Average of 3.463 to 3.474 min.: F157058.D

dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
371.90	367	390.20	186	404.90	93	424.05	2905
372.10	3330	391.20	331	412.30	67	425.05	406
373.10	1244	391.60	267	413.50	173	425.85	206
377.90	70	392.00	74	414.60	128	428.15	151
382.95	1339	397.00	342	415.00	142	428.90	66
384.10	188	398.10	53	418.40	62	429.55	142
384.80	167	398.80	94	418.90	65	430.20	117
385.20	57	402.05	1747	419.30	74	430.80	106
387.90	88	402.85	1012	421.05	1834	431.40	63
388.20	89	403.10	1389	422.05	2134	431.70	87
389.05	309	404.05	812	423.10	12211	432.85	174

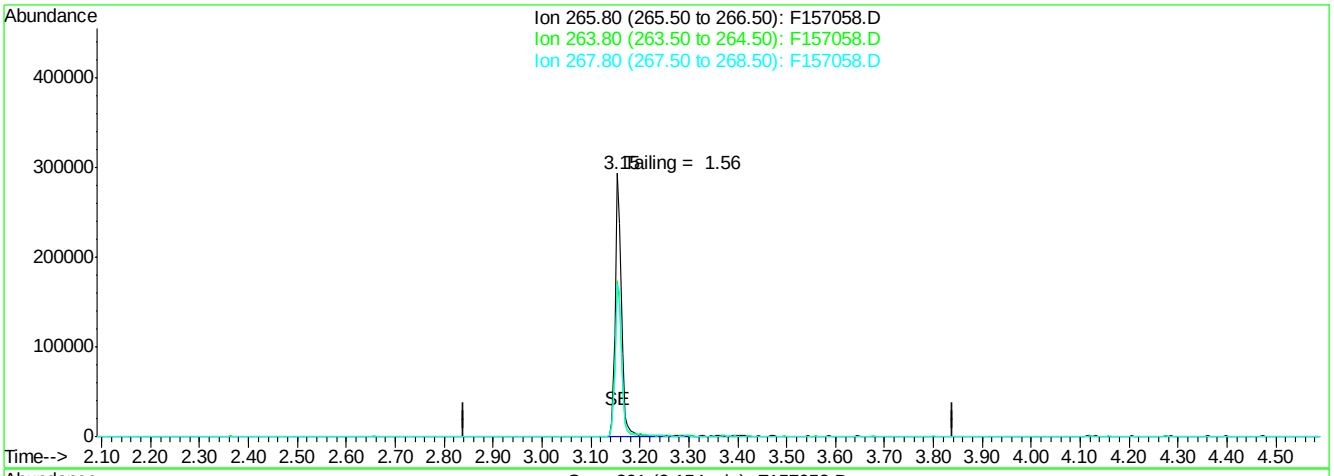
Average of 3.463 to 3.474 min.: F157058.D
dftpp
Modified:subtracted

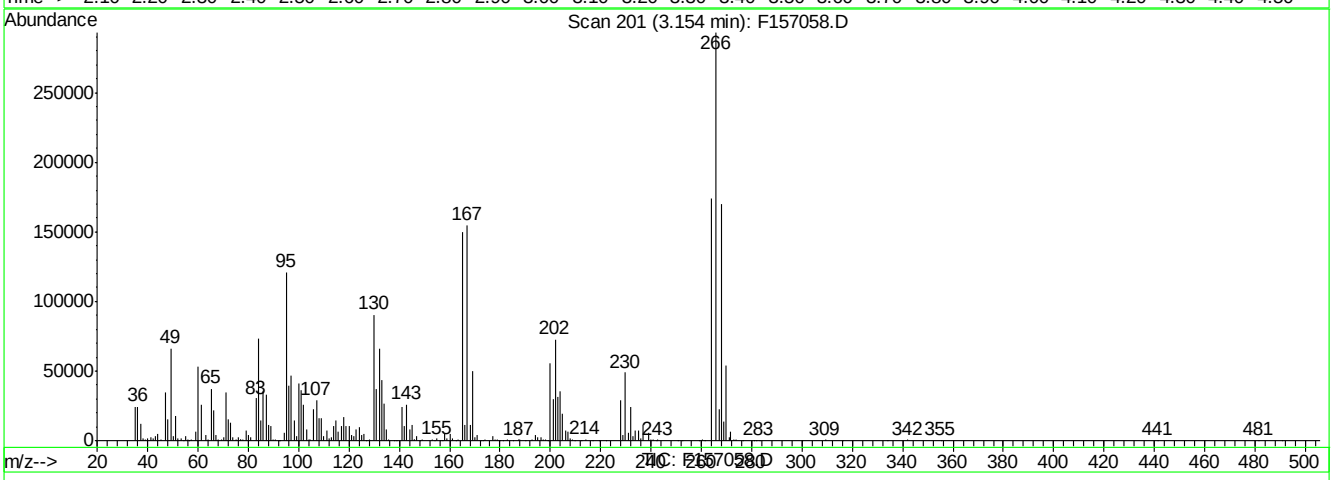
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
433.30	463	439.10	245				
433.75	309	439.70	401				
434.45	337	441.10	35594				
435.20	311	442.10	253717				
435.95	249	443.10	53280				
436.80	109	444.10	5243				
437.20	60	445.15	338				
437.70	77	446.20	64				
438.15	367	447.60	67				
438.40	334	459.60	92				
438.80	198	462.10	66				

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6610\F157058.D Vial: 1
Acq On : 13 May 2016 8:43 am Operator: brittanp
Sample : dftpp Inst : MSF
Misc : op93756,ef6610 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 13 8:49 2016 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 : Fri Apr 08 15:27:53 2016
Response via : Multiple Level Calibration





(1) Pentachlorophenol (t)

3.15min 139.78ppb

response 259849

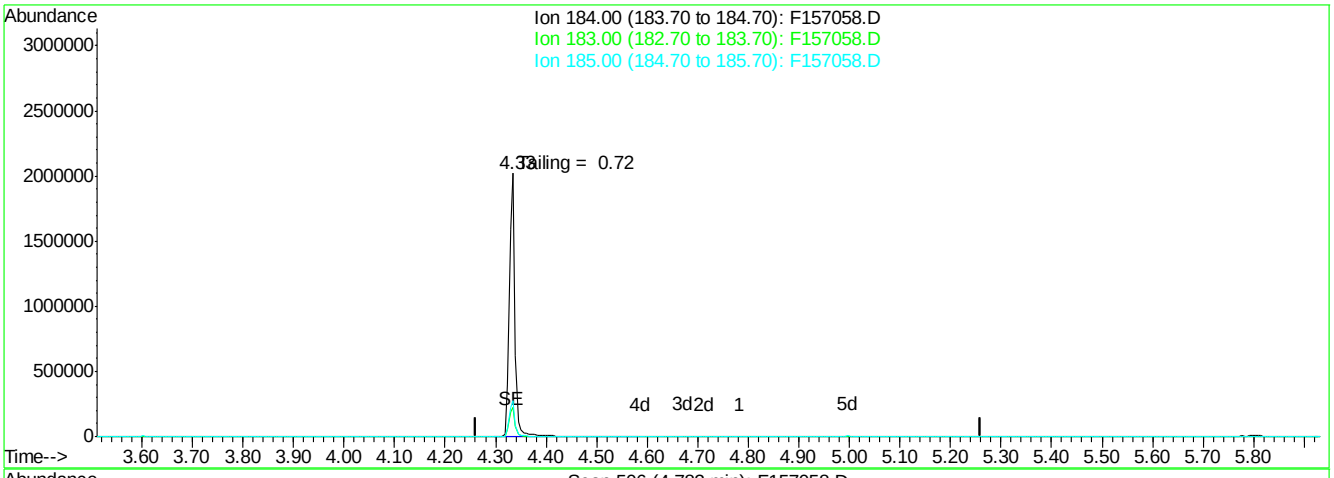
Ion	Exp%	Act%
265.80	100	100
263.80	63.00	59.12
267.80	64.80	57.80
0.00	0.00	0.00

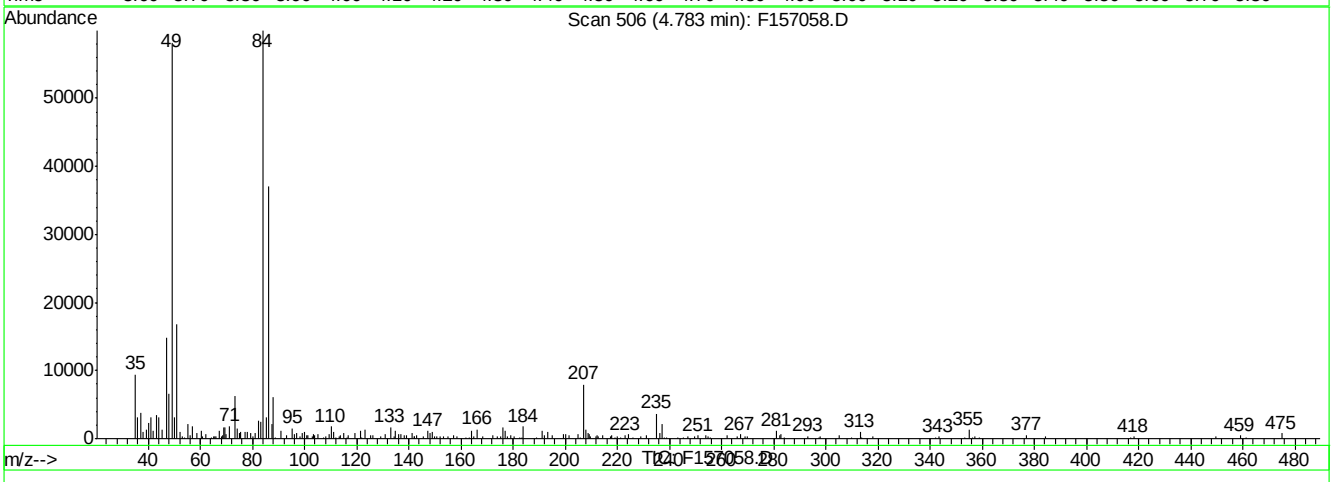
F157058.D DFTPPF.M Fri May 13 08:57:35 2016 RT1

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6610\F157058.D Vial: 1
Acq On : 13 May 2016 8:43 am Operator: brittanp
Sample : dftpp Inst : MSF
Misc : op93756,ef6610 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 13 8:49 2016 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 : Fri Apr 08 15:27:53 2016
Response via : Multiple Level Calibration





(2) Benzidine (t)

4.78min 0.16ppb

response 3030

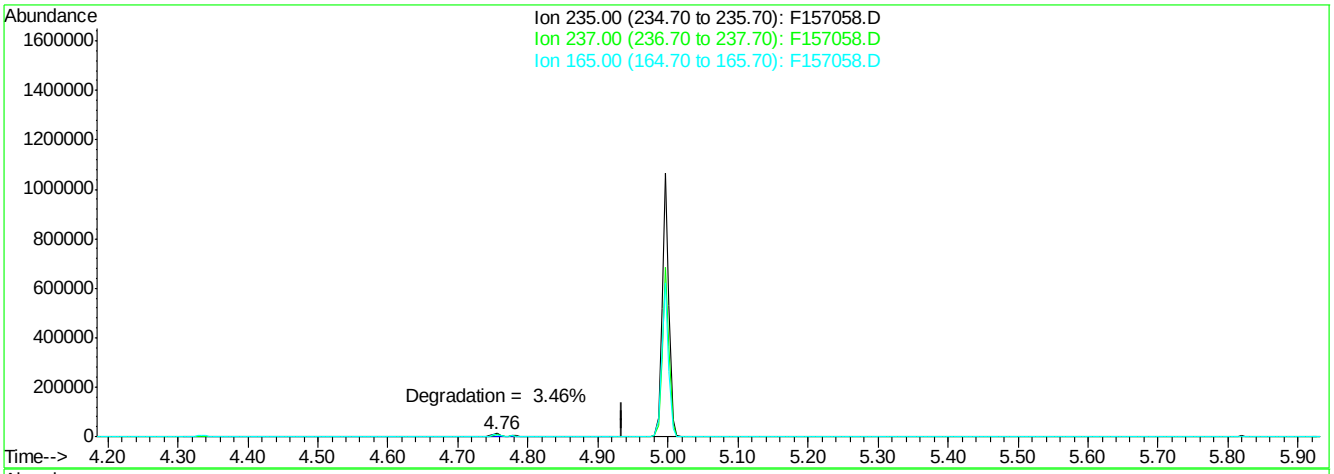
Ion	Exp%	Act%
184.00	100	100
183.00	12.60	0.00
185.00	16.20	0.00
0.00	0.00	0.00

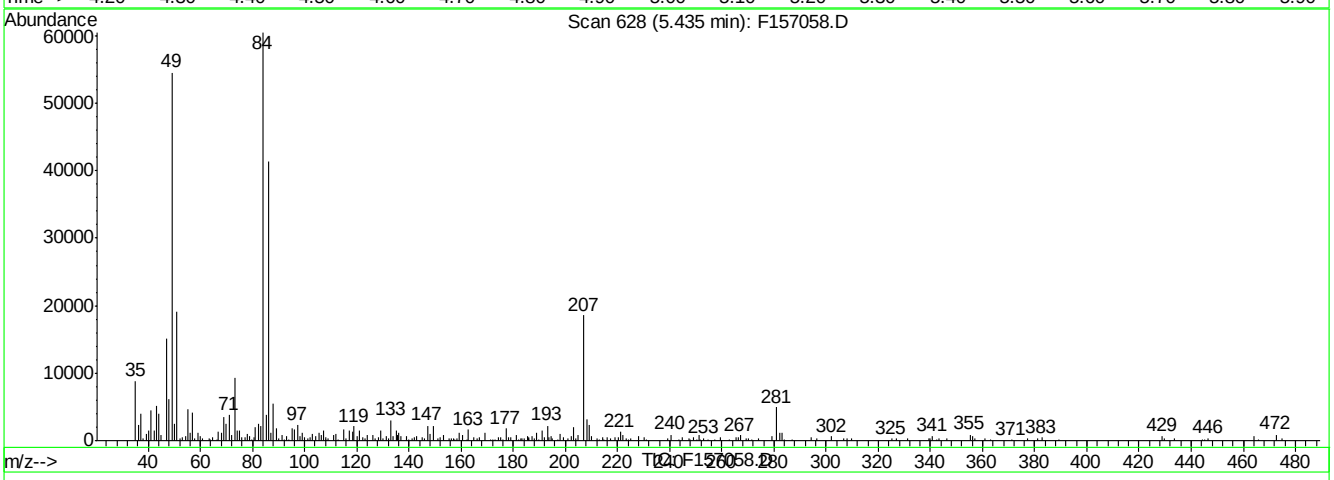
F157058.D DFTPPF.M Fri May 13 08:57:45 2016 RT1

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6610\F157058.D Vial: 1
Acq On : 13 May 2016 8:43 am Operator: brittanp
Sample : dftpp Inst : MSF
Misc : op93756,ef6610 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 13 8:49 2016 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 : Fri Apr 08 15:27:53 2016
Response via : Single Level Calibration





(3) ddt (t)

5.43min 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

F157058.D DFTPPF.M Fri May 13 08:57:53 2016 RT1

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2547\
Data File : 2p58365.D
Acq On : 19 Apr 2016 4:33 pm
Operator : robertl1
Sample : ICC2547-50
Misc : op92038,e2p2547
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 20 08:22:23 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2547.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Apr 20 08:21:19 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.916	152	245634	40.00	ppm	0.00
24) Naphthalene-d8	5.970	136	869529	40.00	ppm	0.00
47) Acenaphthene-d10	7.419	164	458604	40.00	ppm	0.00
69) Phenanthrene-d10	8.767	188	737031	40.00	ppm	0.00
83) Chrysene-d12	12.142	240	717096	40.00	ppm	0.00
92) Perylene-d12	14.153	264	610565	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.916	152	245634	40.00	ppm	0.00
104) Naphthalene-d8a	5.970	136	869529	40.00	ppm	0.00
106) Acenaphthene-d10a	7.419	164	458604	40.00	ppm	0.00
109) Chrysene-d12a	12.142	240	717096	40.00	ppm	0.00
111) Phenanthrene-d10a	8.767	188	737031	40.00	ppm	0.00
114) Chrysene-d12b	12.142	240	717096	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.798	112	513785	51.64	ppm	0.00
Spiked Amount 50.000	Range 11 - 58		Recovery = 103.28%#			
8) Phenol-d5	4.606	99	594747	51.01	ppm	0.00
Spiked Amount 50.000	Range 10 - 59		Recovery = 102.02%#			
25) Nitrobenzene-d5	5.376	82	407341	47.51	ppm	0.00
Spiked Amount 50.000	Range 19 - 61		Recovery = 95.02%#			
51) 2-Fluorobiphenyl	6.863	172	677983	47.51	ppm	0.00
Spiked Amount 50.000	Range 21 - 58		Recovery = 95.02%#			
73) 2,4,6-Tribromophenol	8.093	330	81361	49.72	ppm	0.00
Spiked Amount 50.000	Range 12 - 68		Recovery = 99.44%#			
85) Terphenyl-d14	10.682	244	710354	49.21	ppm	0.00
Spiked Amount 50.000	Range 16 - 65		Recovery = 98.42%#			
112) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
113) O-terphenyl	0.000	230	0	0.00	ppm	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.263	88	235894	52.26	ppm	100
3) Pyridine	2.595	79	594573	53.26	ppm	100
4) N-Nitrosodimethylamine	2.557	74	355360	53.85	ppm	100
6) Indene	5.130	116	632154	45.83	ppm	100
7) Cumene	4.242	105	1100056	50.51	ppm	100
9) Phenol	4.617	94	645938	53.57	ppm	100
10) Aniline	4.638	93	677517	47.75	ppm	100
11) bis(2-Chloroethyl)ether	4.697	93	424372	48.74	ppm	100
12) 2-Chlorophenol	4.734	128	435745	48.35	ppm	100
13) Decane	4.782	57	631836	47.07	ppm	100
14) 1,3-Dichlorobenzene	4.863	146	472746	47.73	ppm	100
15) 1,4-Dichlorobenzene	4.927	146	457927	46.97	ppm	100
16) Benzyl alcohol	5.034	108	273019	48.37	ppm	100
17) 1,2-Dichlorobenzene	5.055	146	420592	46.69	ppm	100
18) Acetophenone	5.253	105	486358	43.94	ppm	100
19) 2-Methylphenol	5.119	108	354191	45.80	ppm	100
20) 2,2'-oxybis(1-Chloropr...	5.146	121	116449	45.87	ppm	100
21) 3&4-Methylphenol	5.253	108	362574	44.94	ppm	100
22) n-Nitroso-di-n-propyla...	5.259	70	252105	44.11	ppm	100

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2547\
Data File : 2p58365.D
Acq On : 19 Apr 2016 4:33 pm
Operator : robertl1
Sample : ICC2547-50
Misc : op92038,e2p2547
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 20 08:22:23 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2547.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Apr 20 08:21:19 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
23)	Hexachloroethane	5.333	201	139416	47.12	ppm	100
26)	Nitrobenzene	5.392	77	402329	46.51	ppm	100
27)	Quinoline	6.275	129	717616	46.54	ppm	100
28)	Isophorone	5.595	82	729826	47.11	ppm	100
29)	2-Nitrophenol	5.654	139	210112	49.13	ppm	100
30)	2,4-Dimethylphenol	5.692	107	348002	45.76	ppm	100
31)	Benzoic acid	5.793	105	322320	54.11	ppm	100
32)	bis(2-Chloroethoxy)met...	5.777	93	441050	45.77	ppm	100
33)	2,4-Dichlorophenol	5.852	162	313151	47.84	ppm	100
34)	2,6-Dichlorophenol	6.039	162	283012	45.91	ppm	100
35)	1,3,5-Trichlorobenzene	5.665	180	348293	46.32	ppm	100
36)	1,2,4-Trichlorobenzene	5.922	180	336840	46.70	ppm	100
37)	1,2,3-Trichlorobenzene	6.109	180	307839	45.88	ppm	100
38)	Naphthalene	5.991	128	1011803	45.17	ppm	100
39)	4-Chloroaniline	6.034	127	441043	45.54	ppm	100
40)	2,3-Dichloroaniline	6.788	161	364577	45.46	ppm	100
41)	Caprolactam	6.344	113	122245	48.70	ppm	100
42)	Hexachlorobutadiene	6.093	225	169483	47.51	ppm	100
43)	4-Chloro-3-methylphenol	6.430	107	321905	47.92	ppm	100
44)	2-Methylnaphthalene	6.558	141	589148	47.09	ppm	100
45)	1-Methylnaphthalene	6.638	141	606827	47.31	ppm	100
46)	Dimethylnaphthalene	7.072	156	567288	44.90	ppm	100
48)	Hexachlorocyclopentadiene	6.687	237	400022	108.47	ppm	100
49)	2,4,6-Trichlorophenol	6.788	196	209413	49.37	ppm	100
50)	2,4,5-Trichlorophenol	6.820	196	222546	48.72	ppm	100
52)	2-Chloronaphthalene	6.959	162	625208	46.45	ppm	100
53)	Biphenyl	6.943	154	796306	47.14	ppm	100
54)	2-Nitroaniline	7.045	65	228487	41.35	ppm	100
55)	Dimethylphthalate	7.200	163	700088	47.91	ppm	100
56)	Acenaphthylene	7.302	152	1053521	48.09	ppm	100
57)	2,6-Dinitrotoluene	7.248	165	162165	52.31	ppm	100
58)	3-Nitroaniline	7.382	138	202751	43.10	ppm	100
59)	Acenaphthene	7.446	153	637695	47.52	ppm	100
60)	2,4-Dinitrophenol	7.468	184	167289	101.54	ppm	100
61)	4-Nitrophenol	7.510	109	99601	53.79	ppm	100
62)	Dibenzofuran	7.591	168	827253	46.63	ppm	100
63)	2,4-Dinitrotoluene	7.574	165	210594	51.83	ppm	100
64)	2,3,4,6-Tetrachlorophenol	7.687	232	174594	50.24	ppm	100
65)	Diethylphthalate	7.783	149	708998	47.82	ppm	100
66)	Fluorene	7.879	166	697748	47.34	ppm	100
67)	4-Chlorophenyl-phenyle...	7.879	204	301273	46.78	ppm	100
68)	4-Nitroaniline	7.901	138	198248	49.03	ppm	100
70)	4,6-Dinitro-2-methylph...	7.922	198	115500	53.58	ppm	100
71)	n-Nitrosodiphenylamine	7.986	169	462112	46.31	ppm	100
72)	1,2-Diphenylhydrazine	8.018	77	738766	46.05	ppm	100
74)	4-Bromophenyl-phenylether	8.323	248	179997	47.98	ppm	100
75)	Hexachlorobenzene	8.377	284	191423	47.66	ppm	100
76)	Pentachlorophenol	8.569	266	285342	105.10	ppm	100
77)	Phenanthrene	8.794	178	1006875	46.52	ppm	100
78)	Anthracene	8.842	178	1010955	47.09	ppm	100

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2547\
Data File : 2p58365.D
Acq On : 19 Apr 2016 4:33 pm
Operator : robertl1
Sample : ICC2547-50
Misc : op92038,e2p2547
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 20 08:22:23 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2547.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Apr 20 08:21:19 2016
Response via : Initial Calibration

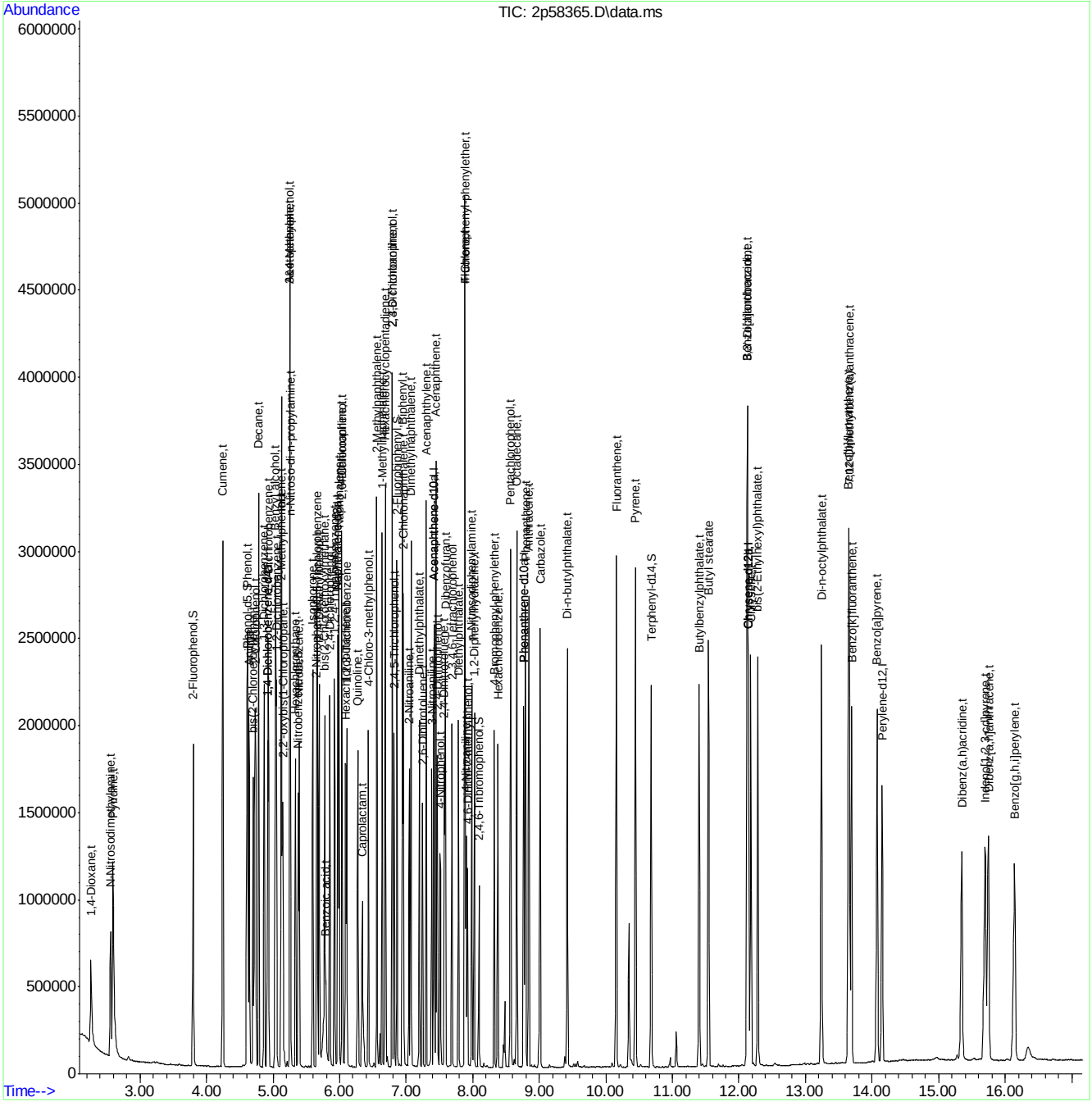
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
79)	Carbazole	9.013	167	954538	47.28	ppm	100
80)	Di-n-butylphthalate	9.425	149	1331901	49.59	ppm	100
81)	Fluoranthene	10.158	202	1184507	50.38	ppm	100
82)	Octadecane	8.660	43	453965	47.91	ppm	100
84)	Pyrene	10.447	202	1205348	50.69	ppm	100
86)	Butylbenzylphthalate	11.404	149	627533	51.67	ppm	100
87)	Butyl stearate	11.543	56	545740	52.56	ppm	100
88)	Benzo[a]anthracene	12.126	228	1112378	48.63	ppm	100
89)	3,3'-Dichlorobenzidine	12.126	252	391294	50.55	ppm	100
90)	Chrysene	12.185	228	992310	47.97	ppm	100
91)	bis(2-Ethylhexyl)phtha...	12.281	149	774542	50.99	ppm	100
93)	Di-n-octylphthalate	13.239	149	1492858	53.76	ppm	100
94)	Benzo[b]fluoranthene	13.651	252	1068083	50.35	ppm	100
95)	Benzo[k]fluoranthene	13.693	252	887846	47.91	ppm	100
96)	Benzo[a]pyrene	14.078	252	893391	49.63	ppm	100
97)	Indeno[1,2,3-cd]pyrene	15.699	276	790519	50.78	ppm	100
98)	Dibenz(a,h)acridine	15.351	279	710198	50.03	ppm	100
99)	Dibenz[a,h]anthracene	15.753	278	793665	50.92	ppm	100
100)	7,12-Dimethylbenz(a)an...	13.656	256	447541	51.76	ppm	100
101)	Benzo[g,h,i]perylene	16.148	276	832485	50.58	ppm	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2547\
Data File : 2p58365.D
Acq On : 19 Apr 2016 4:33 pm
Operator : robertl1
Sample : ICC2547-50
Misc : op92038,e2p2547
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 20 08:22:23 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2547.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Apr 20 08:21:19 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2547\
Data File : 2p58366.D
Acq On : 19 Apr 2016 4:57 pm
Operator : robertl1
Sample : IC2547-25
Misc : op92038,e2p2547
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 20 08:23:29 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2547.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Apr 20 08:21:19 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.916	152	290544	40.00	ppm	0.00
24) Naphthalene-d8	5.970	136	1033350	40.00	ppm	0.00
47) Acenaphthene-d10	7.414	164	560340	40.00	ppm	0.00
69) Phenanthrene-d10	8.762	188	877948	40.00	ppm	0.00
83) Chrysene-d12	12.142	240	855767	40.00	ppm	0.00
92) Perylene-d12	14.148	264	720892	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.916	152	290544	40.00	ppm	0.00
104) Naphthalene-d8a	5.970	136	1033350	40.00	ppm	0.00
106) Acenaphthene-d10a	7.414	164	560340	40.00	ppm	0.00
109) Chrysene-d12a	12.142	240	855767	40.00	ppm	0.00
111) Phenanthrene-d10a	8.762	188	877948	40.00	ppm	0.00
114) Chrysene-d12b	12.142	240	855767	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.799	112	291532	24.77	ppm	0.00
Spiked Amount 50.000	Range 11 - 58		Recovery = 49.54%			
8) Phenol-d5	4.601	99	340206	24.67	ppm	0.00
Spiked Amount 50.000	Range 10 - 59		Recovery = 49.34%			
25) Nitrobenzene-d5	5.376	82	246101	24.15	ppm	0.00
Spiked Amount 50.000	Range 19 - 61		Recovery = 48.30%			
51) 2-Fluorobiphenyl	6.858	172	411297	23.59	ppm	0.00
Spiked Amount 50.000	Range 21 - 58		Recovery = 47.18%			
73) 2,4,6-Tribromophenol	8.088	330	47803	24.53	ppm	0.00
Spiked Amount 50.000	Range 12 - 68		Recovery = 49.06%			
85) Terphenyl-d14	10.677	244	418192	24.28	ppm	0.00
Spiked Amount 50.000	Range 16 - 65		Recovery = 48.56%			
112) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
113) O-terphenyl	0.000	230	0	0.00	ppm	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.269	88	127385	23.86	ppm	98
3) Pyridine	2.595	79	329843	24.98	ppm	97
4) N-Nitrosodimethylamine	2.563	74	191600	24.55	ppm	97
6) Indene	5.130	116	391428	23.99	ppm	99
7) Cumene	4.242	105	635909	24.68	ppm	99
9) Phenol	4.612	94	357409	25.06	ppm	84
10) Aniline	4.638	93	416830	24.84	ppm	100
11) bis(2-Chloroethyl)ether	4.697	93	252242	24.49	ppm	99
12) 2-Chlorophenol	4.735	128	263280	24.70	ppm	98
13) Decane	4.783	57	394167	24.82	ppm	98
14) 1,3-Dichlorobenzene	4.863	146	284945	24.32	ppm	99
15) 1,4-Dichlorobenzene	4.927	146	277268	24.05	ppm	99
16) Benzyl alcohol	5.029	108	163752	24.53	ppm	97
17) 1,2-Dichlorobenzene	5.050	146	255533	23.98	ppm	98
18) Acetophenone	5.253	105	311784	23.81	ppm	87
19) 2-Methylphenol	5.120	108	223221	24.40	ppm	100
20) 2,2'-oxybis(1-Chloropr...	5.146	121	70926	23.62	ppm #	93
21) 3&4-Methylphenol	5.248	108	231223	24.23	ppm	99
22) n-Nitroso-di-n-propyla...	5.253	70	159519	23.60	ppm	99

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2547\
Data File : 2p58366.D
Acq On : 19 Apr 2016 4:57 pm
Operator : robertl1
Sample : IC2547-25
Misc : op92038,e2p2547
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 20 08:23:29 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2547.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Apr 20 08:21:19 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Hexachloroethane	5.334	201	83693	23.92	ppm	97
26) Nitrobenzene	5.392	77	245920	23.92	ppm	96
27) Quinoline	6.264	129	433623	23.66	ppm	98
28) Isophorone	5.590	82	441768	23.99	ppm	97
29) 2-Nitrophenol	5.654	139	126486	24.89	ppm	95
30) 2,4-Dimethylphenol	5.687	107	216637	23.97	ppm	95
31) Benzoic acid	5.772	105	185586	26.22	ppm	92
32) bis(2-Chloroethoxy)met...	5.772	93	271793	23.73	ppm	99
33) 2,4-Dichlorophenol	5.847	162	189198	24.32	ppm	96
34) 2,6-Dichlorophenol	6.040	162	171758	23.44	ppm	99
35) 1,3,5-Trichlorobenzene	5.660	180	210808	23.59	ppm	99
36) 1,2,4-Trichlorobenzene	5.922	180	201752	23.53	ppm	98
37) 1,2,3-Trichlorobenzene	6.104	180	189775	23.80	ppm	99
38) Naphthalene	5.986	128	631872	23.74	ppm	99
39) 4-Chloroaniline	6.034	127	277257	24.09	ppm	97
40) 2,3-Dichloroaniline	6.788	161	225848	23.69	ppm	99
41) Caprolactam	6.323	113	72582	24.33	ppm	91
42) Hexachlorobutadiene	6.088	225	99671	23.51	ppm	98
43) 4-Chloro-3-methylphenol	6.430	107	191557	23.99	ppm	90
44) 2-Methylnaphthalene	6.558	141	358872	24.14	ppm	99
45) 1-Methylnaphthalene	6.639	141	366607	24.05	ppm	97
46) Dimethylnaphthalene	7.072	156	354953	23.64	ppm	99
48) Hexachlorocyclopentadiene	6.687	237	233097	51.73	ppm	100
49) 2,4,6-Trichlorophenol	6.788	196	125464	24.21	ppm	97
50) 2,4,5-Trichlorophenol	6.815	196	134206	24.05	ppm	98
52) 2-Chloronaphthalene	6.960	162	384740	23.40	ppm	98
53) Biphenyl	6.944	154	493377	23.90	ppm	99
54) 2-Nitroaniline	7.040	65	140399	20.80	ppm	96
55) Dimethylphthalate	7.195	163	422988	23.69	ppm	99
56) Acenaphthylene	7.297	152	633755	23.68	ppm	99
57) 2,6-Dinitrotoluene	7.243	165	97674	25.78	ppm	96
58) 3-Nitroaniline	7.377	138	122575	21.32	ppm	100
59) Acenaphthene	7.441	153	393198	23.98	ppm	99
60) 2,4-Dinitrophenol	7.462	184	89806	48.50	ppm	74
61) 4-Nitrophenol	7.505	109	58702	25.95	ppm	99
62) Dibenzofuran	7.585	168	512633	23.65	ppm	99
63) 2,4-Dinitrotoluene	7.569	165	126983	25.58	ppm	97
64) 2,3,4,6-Tetrachlorophenol	7.682	232	101027	23.79	ppm	95
65) Diethylphthalate	7.783	149	435061	24.02	ppm	99
66) Fluorene	7.880	166	428169	23.78	ppm	99
67) 4-Chlorophenyl-phenyle...	7.880	204	182837	23.23	ppm	96
68) 4-Nitroaniline	7.890	138	123647	25.03	ppm	99
70) 4,6-Dinitro-2-methylph...	7.917	198	66905	26.06	ppm	95
71) n-Nitrosodiphenylamine	7.981	169	285126	23.99	ppm	98
72) 1,2-Diphenylhydrazine	8.019	77	465194	24.34	ppm	95
74) 4-Bromophenyl-phenylether	8.323	248	104759	23.44	ppm	95
75) Hexachlorobenzene	8.372	284	111201	23.24	ppm	91
76) Pentachlorophenol	8.564	266	163938	50.69	ppm	99
77) Phenanthrene	8.789	178	611137	23.70	ppm	99
78) Anthracene	8.842	178	620544	24.26	ppm	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2547\
Data File : 2p58366.D
Acq On : 19 Apr 2016 4:57 pm
Operator : robertl1
Sample : IC2547-25
Misc : op92038,e2p2547
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 20 08:23:29 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2547.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Apr 20 08:21:19 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
79)	Carbazole	9.008	167	579371	24.09 ppm	99
80)	Di-n-butylphthalate	9.420	149	801074	25.04 ppm	100
81)	Fluoranthene	10.153	202	689258	24.61 ppm	97
82)	Octadecane	8.660	43	290585	25.75 ppm	99
84)	Pyrene	10.442	202	717805	25.29 ppm	99
86)	Butylbenzylphthalate	11.399	149	369767	25.51 ppm	96
87)	Butyl stearate	11.538	56	336273	27.14 ppm	97
88)	Benzo[a]anthracene	12.121	228	654572	23.98 ppm	100
89)	3,3'-Dichlorobenzidine	12.121	252	225980	24.46 ppm	98
90)	Chrysene	12.174	228	586170	23.74 ppm	99
91)	bis(2-Ethylhexyl)phtha...	12.281	149	467088	25.77 ppm	99
93)	Di-n-octylphthalate	13.233	149	876288	26.73 ppm	99
94)	Benzo[b]fluoranthene	13.640	252	603901	24.11 ppm	96
95)	Benzo[k]fluoranthene	13.683	252	543848	24.86 ppm	98
96)	Benzo[a]pyrene	14.073	252	525111	24.71 ppm	98
97)	Indeno[1,2,3-cd]pyrene	15.689	276	455806	24.80 ppm	97
98)	Dibenz(a,h)acridine	15.341	279	403966	24.10 ppm	97
99)	Dibenz[a,h]anthracene	15.737	278	459334	24.96 ppm	95
100)	7,12-Dimethylbenz(a)an...	13.645	256	259974	25.47 ppm	99
101)	Benzo[g,h,i]perylene	16.132	276	475707	24.48 ppm	96

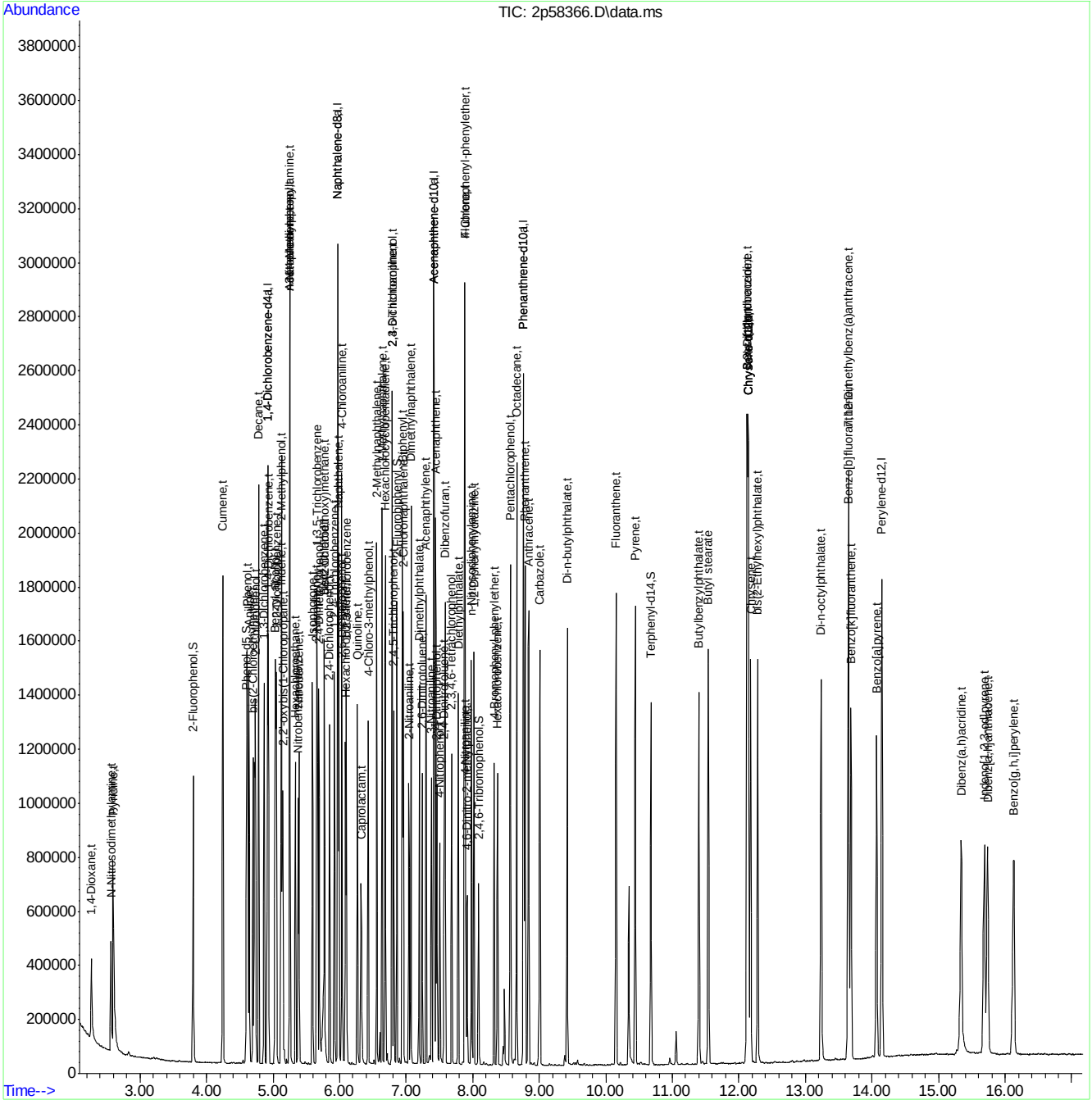
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2547\
Data File : 2p58366.D
Acq On : 19 Apr 2016 4:57 pm
Operator : robertl1
Sample : IC2547-25
Misc : op92038,e2p2547
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 20 08:23:29 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2547.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Apr 20 08:21:19 2016
Response via : Initial Calibration



SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2547\
Data File : 2p58367.D
Acq On : 19 Apr 2016 5:21 pm
Operator : robertl1
Sample : IC2547-80
Misc : op92038,e2p2547
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 20 08:24:46 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2547.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Apr 20 08:21:19 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.916	152	247249	40.00	ppm	0.00
24) Naphthalene-d8	5.975	136	875838	40.00	ppm	0.00
47) Acenaphthene-d10	7.419	164	487244	40.00	ppm	0.00
69) Phenanthrene-d10	8.767	188	771797	40.00	ppm	0.00
83) Chrysene-d12	12.148	240	766396	40.00	ppm	0.00
92) Perylene-d12	14.159	264	666794	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.916	152	247249	40.00	ppm	0.00
104) Naphthalene-d8a	5.975	136	875838	40.00	ppm	0.00
106) Acenaphthene-d10a	7.419	164	487225	40.00	ppm	0.00
109) Chrysene-d12a	12.148	240	766396	40.00	ppm	0.01
111) Phenanthrene-d10a	8.767	188	771797	40.00	ppm	0.00
114) Chrysene-d12b	12.148	240	766396	40.00	ppm	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	3.798	112	842746	84.14	ppm	0.00
Spiked Amount 50.000	Range 11 - 58		Recovery = 168.28%#			
8) Phenol-d5	4.611	99	948201	80.80	ppm	0.00
Spiked Amount 50.000	Range 10 - 59		Recovery = 161.60%#			
25) Nitrobenzene-d5	5.382	82	645867	74.79	ppm	0.00
Spiked Amount 50.000	Range 19 - 61		Recovery = 149.58%#			
51) 2-Fluorobiphenyl	6.863	172	1089401	71.86	ppm	0.00
Spiked Amount 50.000	Range 21 - 58		Recovery = 143.72%#			
73) 2,4,6-Tribromophenol	8.093	330	143480	83.74	ppm	0.00
Spiked Amount 50.000	Range 12 - 68		Recovery = 167.48%#			
85) Terphenyl-d14	10.687	244	1240763	80.43	ppm	0.00
Spiked Amount 50.000	Range 16 - 65		Recovery = 160.86%#			
112) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
113) O-terphenyl	0.000	230	0d	0.00	ppm	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.263	88	378610	83.33	ppm	97
3) Pyridine	2.595	79	951736	84.70	ppm	99
4) N-Nitrosodimethylamine	2.563	74	577794	86.99	ppm	97
6) Indene	5.130	116	943657	67.97	ppm	100
7) Cumene	4.248	105	1720289	78.47	ppm	97
9) Phenol	4.622	94	1001574	82.51	ppm	98
10) Aniline	4.644	93	1050302	73.54	ppm	99
11) bis(2-Chloroethyl)ether	4.702	93	641718	73.21	ppm	98
12) 2-Chlorophenol	4.740	128	658701	72.61	ppm	96
13) Decane	4.783	57	915183	67.73	ppm	98
14) 1,3-Dichlorobenzene	4.868	146	729551	73.18	ppm	99
15) 1,4-Dichlorobenzene	4.932	146	719052	73.28	ppm	98
16) Benzyl alcohol	5.039	108	408808	71.95	ppm	99
17) 1,2-Dichlorobenzene	5.055	146	642897	70.90	ppm	99
18) Acetophenone	5.259	105	736207	66.08	ppm	97
19) 2-Methylphenol	5.125	108	532883	68.46	ppm	100
20) 2,2'-oxybis(1-Chloropr...	5.152	121	178508	69.86	ppm	97
21) 3&4-Methylphenol	5.259	108	547834	67.46	ppm	98
22) n-Nitroso-di-n-propyla...	5.264	70	383586	66.68	ppm	99

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2547\
Data File : 2p58367.D
Acq On : 19 Apr 2016 5:21 pm
Operator : robertl1
Sample : IC2547-80
Misc : op92038,e2p2547
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 20 08:24:46 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2547.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Apr 20 08:21:19 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Hexachloroethane	5.339	201	223423	75.02	ppm	84
26) Nitrobenzene	5.398	77	624832	71.71	ppm	96
27) Quinoline	6.280	129	1192947	76.81	ppm	100
28) Isophorone	5.601	82	1174481	75.26	ppm	100
29) 2-Nitrophenol	5.660	139	336390	78.09	ppm	84
30) 2,4-Dimethylphenol	5.697	107	572547	74.74	ppm	99
31) Benzoic acid	5.815	105	539466	89.92	ppm	100
32) bis(2-Chloroethoxy)met...	5.777	93	695557	71.66	ppm	99
33) 2,4-Dichlorophenol	5.858	162	505174	76.62	ppm	99
34) 2,6-Dichlorophenol	6.045	162	457711	73.71	ppm	98
35) 1,3,5-Trichlorobenzene	5.665	180	548848	72.47	ppm	97
36) 1,2,4-Trichlorobenzene	5.927	180	536023	73.77	ppm	98
37) 1,2,3-Trichlorobenzene	6.109	180	485855	71.88	ppm	98
38) Naphthalene	5.991	128	1590839	70.51	ppm	99
39) 4-Chloroaniline	6.040	127	685504	70.28	ppm	96
40) 2,3-Dichloroaniline	6.794	161	581606	71.99	ppm	97
41) Caprolactam	6.360	113	204880	81.03	ppm	93
42) Hexachlorobutadiene	6.093	225	276764	77.03	ppm	98
43) 4-Chloro-3-methylphenol	6.441	107	519606	76.79	ppm	96
44) 2-Methylnaphthalene	6.558	141	946367	75.10	ppm	99
45) 1-Methylnaphthalene	6.644	141	953813	73.83	ppm	97
46) Dimethylnaphthalene	7.077	156	911170	71.60	ppm	99
48) Hexachlorocyclopentadiene	6.687	237	673971	172.01	ppm	98
49) 2,4,6-Trichlorophenol	6.794	196	338355	75.08	ppm	98
50) 2,4,5-Trichlorophenol	6.826	196	369193	76.07	ppm	97
52) 2-Chloronaphthalene	6.965	162	984342	68.84	ppm	97
53) Biphenyl	6.949	154	1260093	70.21	ppm	98
54) 2-Nitroaniline	7.050	65	369511	62.95	ppm	95
55) Dimethylphthalate	7.200	163	1139412	73.39	ppm	99
56) Acenaphthylene	7.302	152	1699894	73.03	ppm	100
57) 2,6-Dinitrotoluene	7.248	165	266948	81.04	ppm	91
58) 3-Nitroaniline	7.387	138	338545	67.73	ppm	95
59) Acenaphthene	7.446	153	1035606	72.63	ppm	99
60) 2,4-Dinitrophenol	7.473	184	294895	159.90	ppm	83
61) 4-Nitrophenol	7.521	109	160935	81.81	ppm	89
62) Dibenzofuran	7.591	168	1331830	70.65	ppm	100
63) 2,4-Dinitrotoluene	7.580	165	349617	80.99	ppm	97
64) 2,3,4,6-Tetrachlorophenol	7.687	232	300226	81.31	ppm	98
65) Diethylphthalate	7.789	149	1162614	73.81	ppm	98
66) Fluorene	7.885	166	1135938	72.54	ppm	99
67) 4-Chlorophenyl-phenyle...	7.879	204	504520	73.73	ppm	99
68) 4-Nitroaniline	7.912	138	328549	76.49	ppm	96
70) 4,6-Dinitro-2-methylph...	7.928	198	198991	88.15	ppm	98
71) n-Nitrosodiphenylamine	7.986	169	758468	72.59	ppm	100
72) 1,2-Diphenylhydrazine	8.024	77	1139191	67.81	ppm	93
74) 4-Bromophenyl-phenylether	8.329	248	315407	80.29	ppm	91
75) Hexachlorobenzene	8.377	284	331387	78.79	ppm	99
76) Pentachlorophenol	8.569	266	506022	177.99	ppm	98
77) Phenanthrene	8.794	178	1685742	74.38	ppm	98
78) Anthracene	8.848	178	1675034	74.50	ppm	99

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2547\
Data File : 2p58367.D
Acq On : 19 Apr 2016 5:21 pm
Operator : robertl1
Sample : IC2547-80
Misc : op92038,e2p2547
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 20 08:24:46 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2547.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Apr 20 08:21:19 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
79)	Carbazole	9.019	167	1588718	75.15	ppm	100
80)	Di-n-butylphthalate	9.425	149	2201462	78.27	ppm	99
81)	Fluoranthene	10.163	202	2032827	82.57	ppm	98
82)	Octadecane	8.666	43	676632	68.20	ppm	92
84)	Pyrene	10.452	202	2040742	80.30	ppm	100
86)	Butylbenzylphthalate	11.404	149	1064308	81.99	ppm	96
87)	Butyl stearate	11.543	56	858640	77.38	ppm	99
88)	Benzo[a]anthracene	12.132	228	1947656	79.66	ppm	99
89)	3,3'-Dichlorobenzidine	12.132	252	706496	85.40	ppm	97
90)	Chrysene	12.190	228	1686922	76.30	ppm	100
91)	bis(2-Ethylhexyl)phtha...	12.287	149	1271108	78.30	ppm	97
93)	Di-n-octylphthalate	13.244	149	2575082	84.92	ppm	97
94)	Benzo[b]fluoranthene	13.661	252	1928664	83.25	ppm	97
95)	Benzo[k]fluoranthene	13.704	252	1526954	75.46	ppm	98
96)	Benzo[a]pyrene	14.089	252	1623246	82.57	ppm	96
97)	Indeno[1,2,3-cd]pyrene	15.715	276	1475482	86.79	ppm	94
98)	Dibenz(a,h)acridine	15.362	279	1307412	84.34	ppm	98
99)	Dibenz[a,h]anthracene	15.769	278	1419779	83.40	ppm	97
100)	7,12-Dimethylbenz(a)an...	13.667	256	798874	84.60	ppm	99
101)	Benzo[g,h,i]perylene	16.164	276	1497424	83.31	ppm	100

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

7.6.3

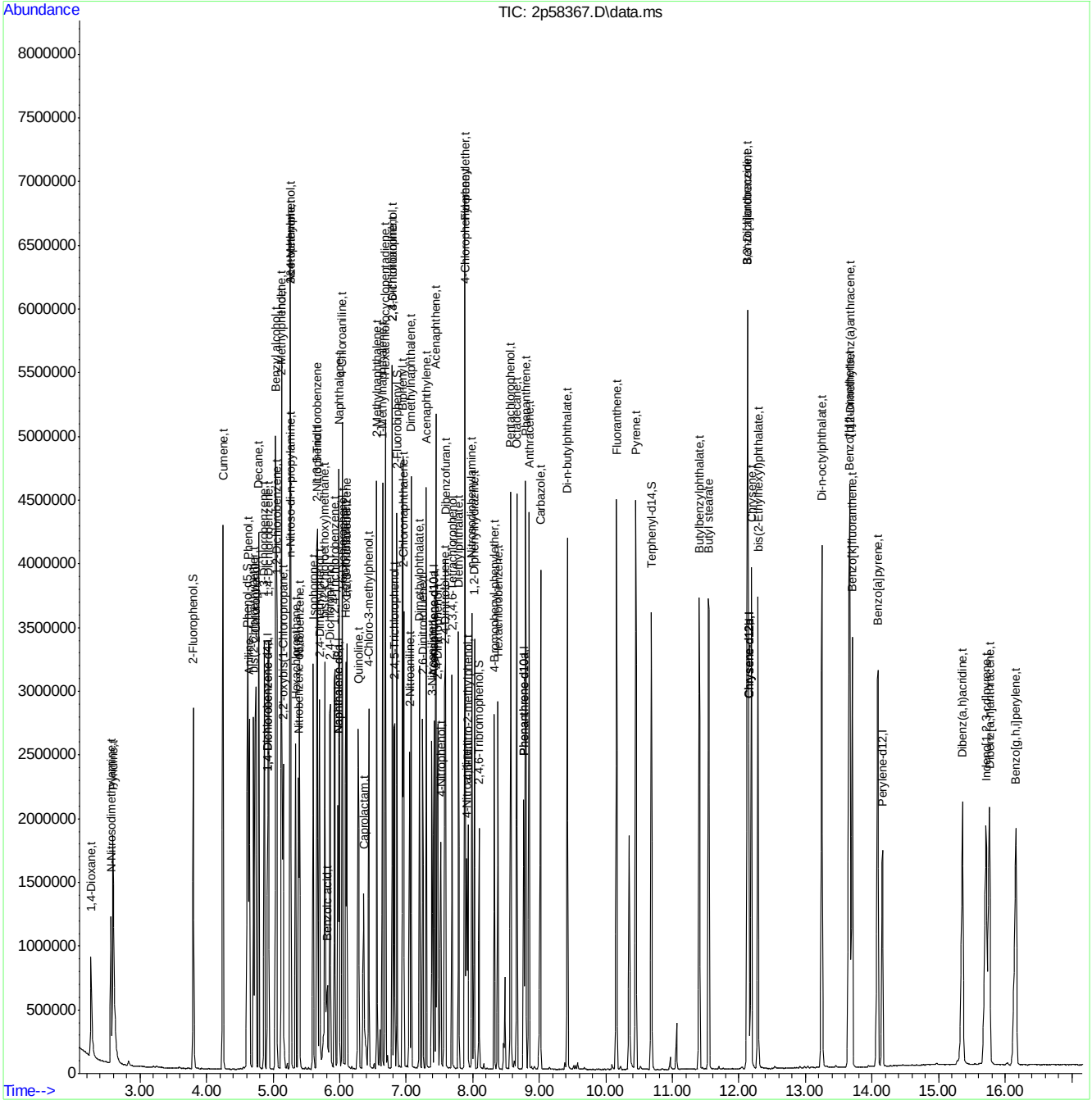
7

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2547\
Data File : 2p58367.D
Acq On : 19 Apr 2016 5:21 pm
Operator : robertl1
Sample : IC2547-80
Misc : op92038,e2p2547
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 20 08:24:46 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2547.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Apr 20 08:21:19 2016
Response via : Initial Calibration



SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2547\
Data File : 2p58368.D
Acq On : 19 Apr 2016 5:45 pm
Operator : robertl1
Sample : IC2547-10
Misc : op92038,e2p2547
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 20 08:25:51 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2547.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Apr 20 08:21:19 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.916	152	322262	40.00	ppm	0.00
24) Naphthalene-d8	5.970	136	1135036	40.00	ppm	0.00
47) Acenaphthene-d10	7.414	164	620256	40.00	ppm	0.00
69) Phenanthrene-d10	8.762	188	978345	40.00	ppm	0.00
83) Chrysene-d12	12.137	240	939414	40.00	ppm	0.00
92) Perylene-d12	14.148	264	782964	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.916	152	322262	40.00	ppm	0.00
104) Naphthalene-d8a	5.970	136	1135036	40.00	ppm	0.00
106) Acenaphthene-d10a	7.414	164	620256	40.00	ppm	0.00
109) Chrysene-d12a	12.137	240	939414	40.00	ppm	0.00
111) Phenanthrene-d10a	8.762	188	978345	40.00	ppm	0.00
114) Chrysene-d12b	12.137	240	939414	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.798	112	120860	9.26	ppm	0.00
Spiked Amount 50.000	Range 11 - 58		Recovery	=	18.52%	
8) Phenol-d5	4.601	99	143565	9.39	ppm	0.00
Spiked Amount 50.000	Range 10 - 59		Recovery	=	18.78%	
25) Nitrobenzene-d5	5.371	82	108797	9.72	ppm	0.00
Spiked Amount 50.000	Range 19 - 61		Recovery	=	19.44%	
51) 2-Fluorobiphenyl	6.858	172	183977	9.53	ppm	0.00
Spiked Amount 50.000	Range 21 - 58		Recovery	=	19.06%#	
73) 2,4,6-Tribromophenol	8.088	330	19976	9.20	ppm	0.00
Spiked Amount 50.000	Range 12 - 68		Recovery	=	18.40%	
85) Terphenyl-d14	10.677	244	175097	9.26	ppm	0.00
Spiked Amount 50.000	Range 16 - 65		Recovery	=	18.52%	
112) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
113) O-terphenyl	0.000	230	0	0.00	ppm	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.269	88	51080	8.63	ppm	93
3) Pyridine	2.600	79	136123	9.29	ppm	97
4) N-Nitrosodimethylamine	2.563	74	79088	9.14	ppm	99
6) Indene	5.125	116	181468	10.03	ppm	99
7) Cumene	4.242	105	271517	9.50	ppm	99
9) Phenol	4.611	94	151257	9.56	ppm	95
10) Aniline	4.638	93	181125	9.73	ppm	98
11) bis(2-Chloroethyl)ether	4.697	93	110553	9.68	ppm	98
12) 2-Chlorophenol	4.734	128	116252	9.83	ppm	94
13) Decane	4.783	57	174620	9.91	ppm	97
14) 1,3-Dichlorobenzene	4.863	146	124112	9.55	ppm	100
15) 1,4-Dichlorobenzene	4.927	146	123321	9.64	ppm	99
16) Benzyl alcohol	5.029	108	70502	9.52	ppm	96
17) 1,2-Dichlorobenzene	5.050	146	117083	9.91	ppm	97
18) Acetophenone	5.248	105	144959	9.98	ppm	98
19) 2-Methylphenol	5.120	108	102006	10.05	ppm	98
20) 2,2'-oxybis(1-Chloropr...	5.146	121	32053	9.62	ppm #	93
21) 3&4-Methylphenol	5.243	108	107743	10.18	ppm	100
22) n-Nitroso-di-n-propyla...	5.248	70	75571	10.08	ppm	95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2547\
Data File : 2p58368.D
Acq On : 19 Apr 2016 5:45 pm
Operator : robertl1
Sample : IC2547-10
Misc : op92038,e2p2547
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 20 08:25:51 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2547.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Apr 20 08:21:19 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
23)	Hexachloroethane	5.334	201	37264	9.60	ppm	95
26)	Nitrobenzene	5.387	77	111804	9.90	ppm	98
27)	Quinoline	6.264	129	192134	9.55	ppm	100
28)	Isophorone	5.590	82	195147	9.65	ppm	99
29)	2-Nitrophenol	5.654	139	55233	9.89	ppm	88
30)	2,4-Dimethylphenol	5.687	107	100320	10.11	ppm	96
31)	Benzoic acid	5.745	105	75261	9.68	ppm	99
32)	bis(2-Chloroethoxy)met...	5.772	93	123776	9.84	ppm	98
33)	2,4-Dichlorophenol	5.847	162	83023	9.72	ppm	97
34)	2,6-Dichlorophenol	6.034	162	78552	9.76	ppm	97
35)	1,3,5-Trichlorobenzene	5.660	180	96194	9.80	ppm	97
36)	1,2,4-Trichlorobenzene	5.922	180	92093	9.78	ppm	98
37)	1,2,3-Trichlorobenzene	6.104	180	84864	9.69	ppm	98
38)	Naphthalene	5.986	128	288184	9.86	ppm	98
39)	4-Chloroaniline	6.029	127	124483	9.85	ppm	98
40)	2,3-Dichloroaniline	6.788	161	102517	9.79	ppm	100
41)	Caprolactam	6.312	113	31263	9.54	ppm	97
42)	Hexachlorobutadiene	6.088	225	43807	9.41	ppm	99
43)	4-Chloro-3-methylphenol	6.425	107	84291	9.61	ppm	94
44)	2-Methylnaphthalene	6.558	141	158256	9.69	ppm	100
45)	1-Methylnaphthalene	6.639	141	165050	9.86	ppm	99
46)	Dimethylnaphthalene	7.072	156	159350	9.66	ppm	99
48)	Hexachlorocyclopentadiene	6.687	237	96647	19.38	ppm	99
49)	2,4,6-Trichlorophenol	6.788	196	56138	9.78	ppm	100
50)	2,4,5-Trichlorophenol	6.815	196	60018	9.71	ppm	98
52)	2-Chloronaphthalene	6.960	162	179294	9.85	ppm	95
53)	Biphenyl	6.943	154	222863	9.75	ppm	98
54)	2-Nitroaniline	7.040	65	60850	8.14	ppm	96
55)	Dimethylphthalate	7.195	163	187354	9.48	ppm	100
56)	Acenaphthylene	7.296	152	287974	9.72	ppm	99
57)	2,6-Dinitrotoluene	7.243	165	41037	9.79	ppm	96
58)	3-Nitroaniline	7.377	138	54266	8.53	ppm	97
59)	Acenaphthene	7.441	153	172753	9.52	ppm	99
60)	2,4-Dinitrophenol	7.462	184	30698	18.21	ppm	93
61)	4-Nitrophenol	7.505	109	23973	9.57	ppm	93
62)	Dibenzofuran	7.585	168	233370	9.73	ppm	99
63)	2,4-Dinitrotoluene	7.569	165	55364	10.07	ppm	95
64)	2,3,4,6-Tetrachlorophenol	7.682	232	44226	9.41	ppm	93
65)	Diethylphthalate	7.778	149	190793	9.52	ppm	100
66)	Fluorene	7.874	166	191465	9.61	ppm	99
67)	4-Chlorophenyl-phenyle...	7.879	204	83369	9.57	ppm	100
68)	4-Nitroaniline	7.885	138	54922	10.04	ppm	99
70)	4,6-Dinitro-2-methylph...	7.912	198	24798	8.67	ppm	95
71)	n-Nitrosodiphenylamine	7.981	169	126006	9.51	ppm	99
72)	1,2-Diphenylhydrazine	8.019	77	213831	10.04	ppm	95
74)	4-Bromophenyl-phenylether	8.323	248	46367	9.31	ppm	95
75)	Hexachlorobenzene	8.372	284	49373	9.26	ppm	92
76)	Pentachlorophenol	8.564	266	68144	18.91	ppm	99
77)	Phenanthrene	8.789	178	265779	9.25	ppm	99
78)	Anthracene	8.837	178	271589	9.53	ppm	100

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2547\
Data File : 2p58368.D
Acq On : 19 Apr 2016 5:45 pm
Operator : robertl1
Sample : IC2547-10
Misc : op92038,e2p2547
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 20 08:25:51 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2547.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Apr 20 08:21:19 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
79)	Carbazole	9.008	167	253649	9.46	ppm	99
80)	Di-n-butylphthalate	9.420	149	343049	9.62	ppm	99
81)	Fluoranthene	10.153	202	286158	9.17	ppm	96
82)	Octadecane	8.660	43	130781	10.40	ppm	96
84)	Pyrene	10.441	202	304609	9.78	ppm	99
86)	Butylbenzylphthalate	11.399	149	150827	9.48	ppm	95
87)	Butyl stearate	11.538	56	139606	10.26	ppm	97
88)	Benzo[a]anthracene	12.121	228	273258	9.12	ppm	100
89)	3,3'-Dichlorobenzidine	12.116	252	94688	9.34	ppm	96
90)	Chrysene	12.174	228	252582	9.32	ppm	99
91)	bis(2-Ethylhexyl)phtha...	12.281	149	197799	9.94	ppm	99
93)	Di-n-octylphthalate	13.233	149	350508	9.84	ppm	99
94)	Benzo[b]fluoranthene	13.640	252	250741	9.22	ppm	98
95)	Benzo[k]fluoranthene	13.677	252	231336	9.74	ppm	98
96)	Benzo[a]pyrene	14.068	252	213062	9.23	ppm	98
97)	Indeno[1,2,3-cd]pyrene	15.678	276	180477	9.04	ppm	94
98)	Dibenz(a,h)acridine	15.335	279	170729	9.38	ppm	99
99)	Dibenz[a,h]anthracene	15.731	278	180925	9.05	ppm	94
100)	7,12-Dimethylbenz(a)an...	13.640	256	104110	9.39	ppm	98
101)	Benzo[g,h,i]perylene	16.122	276	191939	9.09	ppm	95

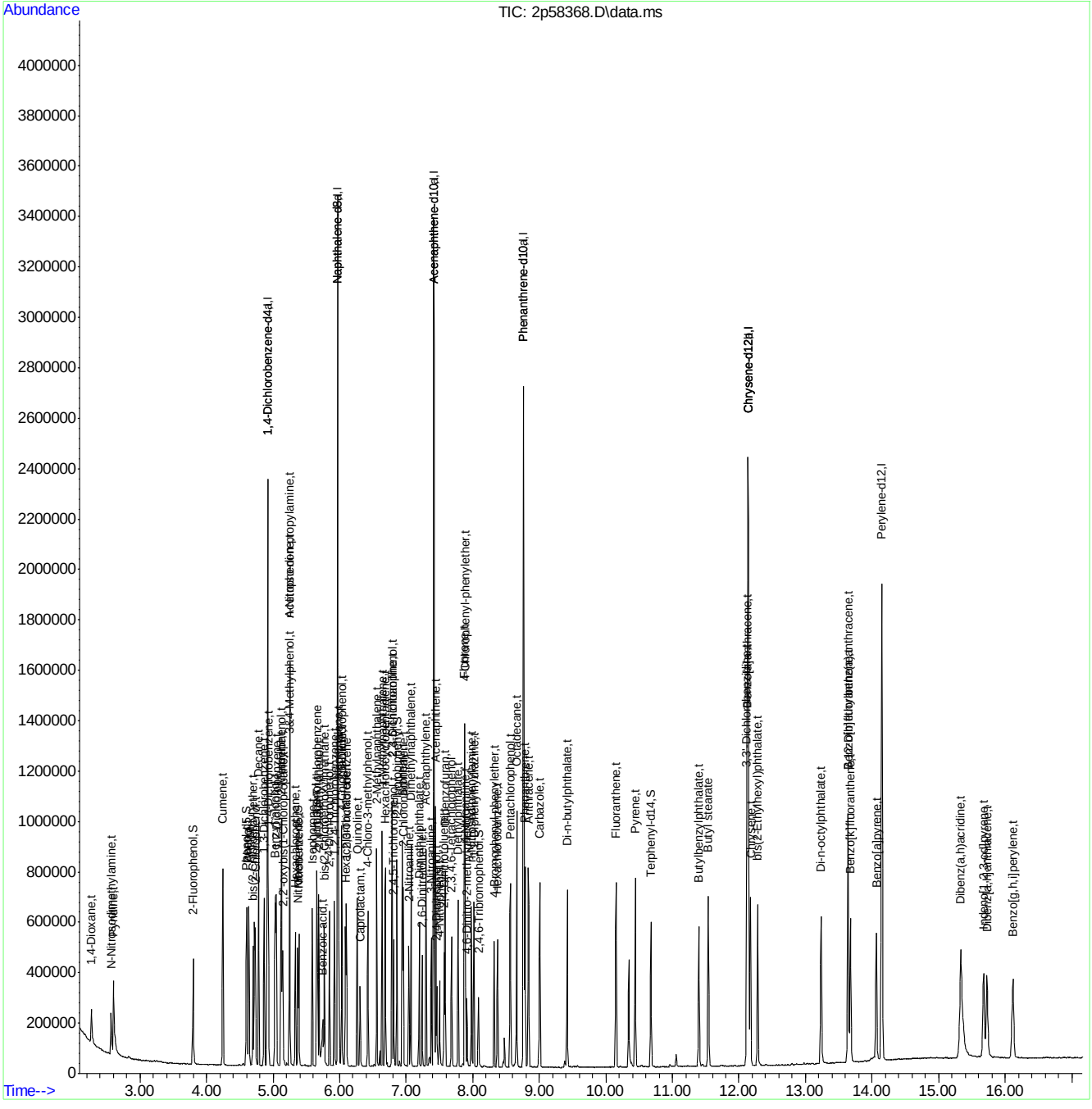
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2547\
Data File : 2p58368.D
Acq On : 19 Apr 2016 5:45 pm
Operator : robertl1
Sample : IC2547-10
Misc : op92038,e2p2547
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 20 08:25:51 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2547.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Apr 20 08:21:19 2016
Response via : Initial Calibration



SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2547\
Data File : 2p58369.D
Acq On : 19 Apr 2016 6:09 pm
Operator : robertl1
Sample : IC2547-100
Misc : op92038,e2p2547
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 20 08:28:47 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2547.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Apr 20 08:21:19 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.916	152	247515	40.00	ppm	0.00
24) Naphthalene-d8	5.975	136	885088	40.00	ppm	0.00
47) Acenaphthene-d10	7.420	164	480319	40.00	ppm	0.00
69) Phenanthrene-d10	8.767	188	779453	40.00	ppm	0.00
83) Chrysene-d12	12.153	240	760159	40.00	ppm	0.01
92) Perylene-d12	14.159	264	655418	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.916	152	247515	40.00	ppm	0.00
104) Naphthalene-d8a	5.975	136	885088	40.00	ppm	0.00
106) Acenaphthene-d10a	7.420	164	480319	40.00	ppm	0.00
109) Chrysene-d12a	12.153	240	760159	40.00	ppm	0.02
111) Phenanthrene-d10a	8.767	188	779453	40.00	ppm	0.00
114) Chrysene-d12b	12.153	240	760159	40.00	ppm	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	3.804	112	1018564	101.59	ppm	0.00
Spiked Amount 50.000	Range 11 - 58		Recovery	= 203.18%#		
8) Phenol-d5	4.617	99	1155357	98.34	ppm	0.01
Spiked Amount 50.000	Range 10 - 59		Recovery	= 196.68%#		
25) Nitrobenzene-d5	5.382	82	781232	89.52	ppm	0.00
Spiked Amount 50.000	Range 19 - 61		Recovery	= 179.04%#		
51) 2-Fluorobiphenyl	6.869	172	1331836	89.12	ppm	0.00
Spiked Amount 50.000	Range 21 - 58		Recovery	= 178.24%#		
73) 2,4,6-Tribromophenol	8.099	330	183604	106.10	ppm	0.00
Spiked Amount 50.000	Range 12 - 68		Recovery	= 212.20%#		
85) Terphenyl-d14	10.688	244	1555775	101.68	ppm	0.00
Spiked Amount 50.000	Range 16 - 65		Recovery	= 203.36%#		
112) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
113) O-terphenyl	0.000	230	0	0.00	ppm	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.263	88	463781	101.96	ppm	97
3) Pyridine	2.595	79	1173315	104.30	ppm	99
4) N-Nitrosodimethylamine	2.563	74	707056	106.33	ppm	100
6) Indene	5.130	116	1110882	79.93	ppm	99
7) Cumene	4.248	105	2082807	94.90	ppm	98
9) Phenol	4.628	94	1188975	97.85	ppm	97
10) Aniline	4.644	93	1270259	88.84	ppm	99
11) bis(2-Chloroethyl)ether	4.708	93	768294	87.56	ppm	93
12) 2-Chlorophenol	4.740	128	804807	88.62	ppm	96
13) Decane	4.788	57	1066570	78.85	ppm	94
14) 1,3-Dichlorobenzene	4.868	146	886725	88.85	ppm	98
15) 1,4-Dichlorobenzene	4.932	146	868117	88.37	ppm	99
16) Benzyl alcohol	5.039	108	483981	85.09	ppm	98
17) 1,2-Dichlorobenzene	5.055	146	772408	85.09	ppm	99
18) Acetophenone	5.259	105	876144	78.56	ppm #	68
19) 2-Methylphenol	5.125	108	630153	80.87	ppm	99
20) 2,2'-oxybis(1-Chloropr...	5.152	121	216513	84.64	ppm	94
21) 3&4-Methylphenol	5.259	108	651747	80.17	ppm	100
22) n-Nitroso-di-n-propyla...	5.269	70	461015	80.05	ppm	99

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2547\
Data File : 2p58369.D
Acq On : 19 Apr 2016 6:09 pm
Operator : robertl1
Sample : IC2547-100
Misc : op92038,e2p2547
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 20 08:28:47 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2547.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Apr 20 08:21:19 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
23)	Hexachloroethane	5.339	201	276481	92.74	ppm	#	81
26)	Nitrobenzene	5.398	77	752742	85.48	ppm		99
27)	Quinoline	6.286	129	1469247	93.61	ppm		99
28)	Isophorone	5.606	82	1445380	91.65	ppm		99
29)	2-Nitrophenol	5.660	139	402892	92.55	ppm		89
30)	2,4-Dimethylphenol	5.697	107	677224	87.48	ppm		99
31)	Benzoic acid	5.831	105	669372	110.41	ppm		99
32)	bis(2-Chloroethoxy)met...	5.783	93	835707	85.20	ppm		98
33)	2,4-Dichlorophenol	5.858	162	616206	92.48	ppm		100
34)	2,6-Dichlorophenol	6.045	162	552440	88.04	ppm		97
35)	1,3,5-Trichlorobenzene	5.665	180	678554	88.66	ppm		99
36)	1,2,4-Trichlorobenzene	5.927	180	659600	89.83	ppm		98
37)	1,2,3-Trichlorobenzene	6.109	180	600190	87.87	ppm		98
38)	Naphthalene	5.991	128	1926828	84.51	ppm		99
39)	4-Chloroaniline	6.040	127	814964	82.68	ppm		98
40)	2,3-Dichloroaniline	6.794	161	704988	86.35	ppm		95
41)	Caprolactam	6.371	113	253825	99.33	ppm		97
42)	Hexachlorobutadiene	6.093	225	345147	95.06	ppm		98
43)	4-Chloro-3-methylphenol	6.441	107	630387	92.18	ppm		95
44)	2-Methylnaphthalene	6.564	141	1152169	90.47	ppm		100
45)	1-Methylnaphthalene	6.644	141	1150450	88.12	ppm		98
46)	Dimethylnaphthalene	7.077	156	1118289	86.95	ppm		98
48)	Hexachlorocyclopentadiene	6.692	237	838630	217.12	ppm		99
49)	2,4,6-Trichlorophenol	6.794	196	406617	91.52	ppm		97
50)	2,4,5-Trichlorophenol	6.826	196	449873	94.03	ppm		99
52)	2-Chloronaphthalene	6.965	162	1196370	84.87	ppm		98
53)	Biphenyl	6.949	154	1535295	86.78	ppm		100
54)	2-Nitroaniline	7.051	65	460888	79.64	ppm		100
55)	Dimethylphthalate	7.206	163	1412746	92.31	ppm		99
56)	Acenaphthylene	7.307	152	2033952	88.65	ppm		99
57)	2,6-Dinitrotoluene	7.254	165	325187	100.14	ppm		96
58)	3-Nitroaniline	7.393	138	412511	83.72	ppm		91
59)	Acenaphthene	7.452	153	1250908	89.00	ppm		98
60)	2,4-Dinitrophenol	7.478	184	374178	199.81	ppm		87
61)	4-Nitrophenol	7.521	109	198632	102.43	ppm		96
62)	Dibenzofuran	7.591	168	1602437	86.24	ppm		97
63)	2,4-Dinitrotoluene	7.580	165	426108	100.13	ppm		98
64)	2,3,4,6-Tetrachlorophenol	7.692	232	379247	104.19	ppm		95
65)	Diethylphthalate	7.789	149	1414647	91.10	ppm		99
66)	Fluorene	7.885	166	1359053	88.05	ppm		98
67)	4-Chlorophenyl-phenyle...	7.885	204	615561	91.25	ppm		92
68)	4-Nitroaniline	7.917	138	397393	93.85	ppm		97
70)	4,6-Dinitro-2-methylph...	7.933	198	247449	108.54	ppm		94
71)	n-Nitrosodiphenylamine	7.992	169	929054	88.04	ppm		99
72)	1,2-Diphenylhydrazine	8.024	77	1360980	80.21	ppm		94
74)	4-Bromophenyl-phenylether	8.329	248	398465	100.43	ppm		94
75)	Hexachlorobenzene	8.382	284	416259	97.99	ppm		92
76)	Pentachlorophenol	8.575	266	633253	220.55	ppm		99
77)	Phenanthrene	8.800	178	2039390	89.10	ppm		99
78)	Anthracene	8.853	178	2012036	88.61	ppm		99

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2547\
Data File : 2p58369.D
Acq On : 19 Apr 2016 6:09 pm
Operator : robertl1
Sample : IC2547-100
Misc : op92038,e2p2547
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 20 08:28:47 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2547.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Apr 20 08:21:19 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
79)	Carbazole	9.019	167	1947431	91.21	ppm	99
80)	Di-n-butylphthalate	9.425	149	2715780	95.60	ppm	99
81)	Fluoranthene	10.163	202	2506606	100.81	ppm	98
82)	Octadecane	8.666	43	770653	76.91	ppm	87
84)	Pyrene	10.458	202	2474108	98.15	ppm	100
86)	Butylbenzylphthalate	11.410	149	1297972	100.81	ppm	98
87)	Butyl stearate	11.549	56	995197	90.42	ppm	94
88)	Benzo[a]anthracene	12.137	228	2375786	97.97	ppm	98
89)	3,3'-Dichlorobenzidine	12.137	252	869044	105.91	ppm	98
90)	Chrysene	12.196	228	2058102	93.85	ppm	100
91)	bis(2-Ethylhexyl)phtha...	12.287	149	1519439	94.37	ppm	98
93)	Di-n-octylphthalate	13.250	149	3106671	104.22	ppm	96
94)	Benzo[b]fluoranthene	13.667	252	2406826	105.69	ppm	96
95)	Benzo[k]fluoranthene	13.710	252	1798356	90.41	ppm	97
96)	Benzo[a]pyrene	14.089	252	1973917	102.15	ppm	97
97)	Indeno[1,2,3-cd]pyrene	15.721	276	1848282	110.61	ppm	95
98)	Dibenz(a,h)acridine	15.368	279	1647170	108.10	ppm	99
99)	Dibenz[a,h]anthracene	15.774	278	1759100	105.13	ppm	96
100)	7,12-Dimethylbenz(a)an...	13.667	256	980255	105.61	ppm	99
101)	Benzo[g,h,i]perylene	16.170	276	1850570	104.75	ppm	99

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

7.6.5

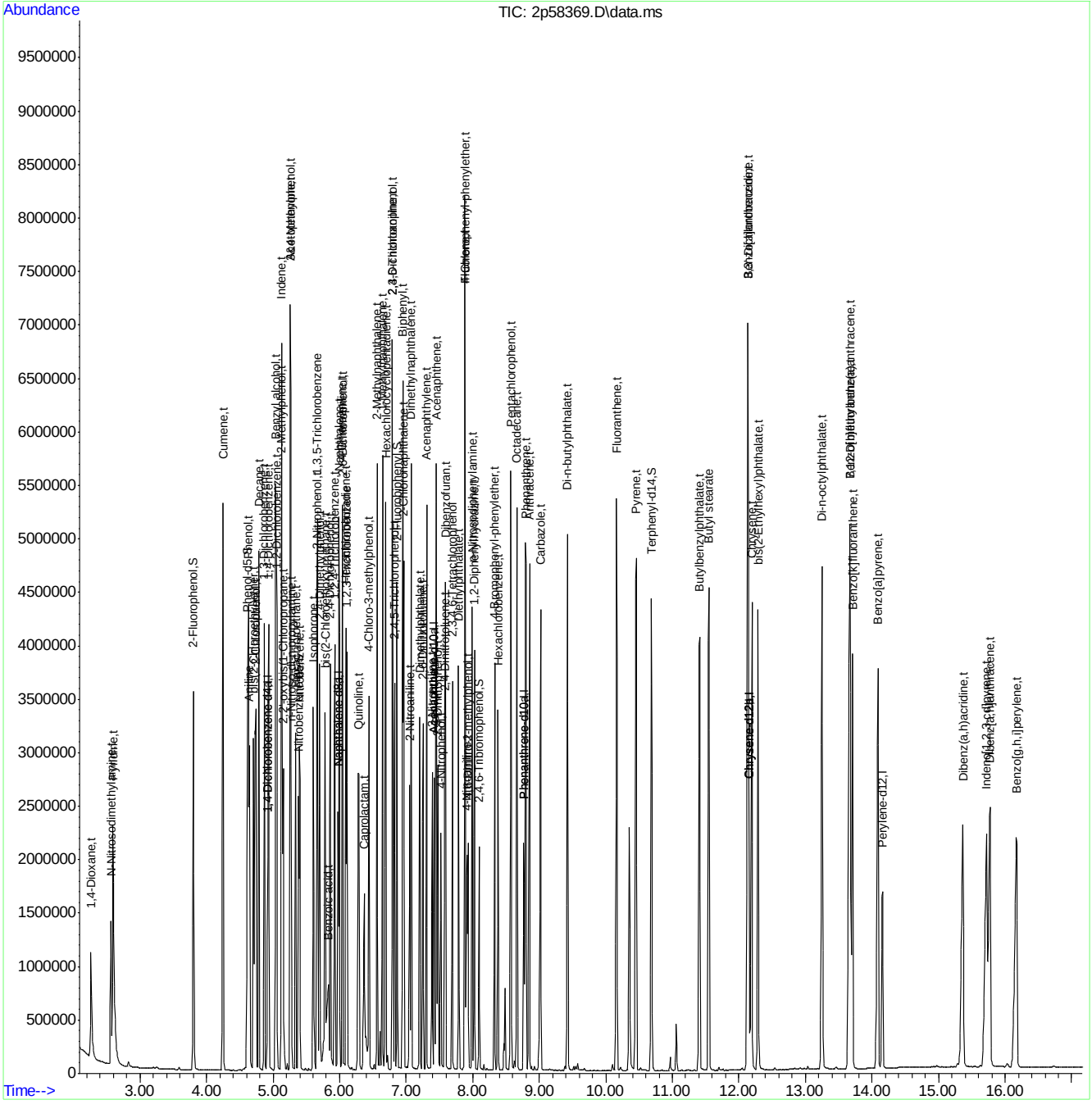
7

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2547\
Data File : 2p58369.D
Acq On : 19 Apr 2016 6:09 pm
Operator : robertl1
Sample : IC2547-100
Misc : op92038,e2p2547
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 20 08:28:47 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2547.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Apr 20 08:21:19 2016
Response via : Initial Calibration



SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2547\
Data File : 2p58370.D
Acq On : 19 Apr 2016 6:33 pm
Operator : robertl1
Sample : IC2547-5
Misc : op92038,e2p2547
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 20 08:29:44 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2547.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Apr 20 08:21:19 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.911	152	281504	40.00	ppm	0.00
24) Naphthalene-d8	5.970	136	989523	40.00	ppm	0.00
47) Acenaphthene-d10	7.414	164	539577	40.00	ppm	0.00
69) Phenanthrene-d10	8.762	188	835173	40.00	ppm	0.00
83) Chrysene-d12	12.137	240	777613	40.00	ppm	0.00
92) Perylene-d12	14.148	264	648321	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.911	152	281504	40.00	ppm	0.00
104) Naphthalene-d8a	5.970	136	989523	40.00	ppm	0.00
106) Acenaphthene-d10a	7.414	164	539577	40.00	ppm	0.00
109) Chrysene-d12a	12.137	240	777613	40.00	ppm	0.00
111) Phenanthrene-d10a	8.762	188	835173	40.00	ppm	0.00
114) Chrysene-d12b	12.137	240	777613	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.793	112	57559	5.05	ppm	0.00
Spiked Amount 50.000	Range 11 - 58		Recovery	=	10.10%#	
8) Phenol-d5	4.595	99	70626	5.29	ppm	-0.01
Spiked Amount 50.000	Range 10 - 59		Recovery	=	10.58%	
25) Nitrobenzene-d5	5.371	82	54953	5.63	ppm	0.00
Spiked Amount 50.000	Range 19 - 61		Recovery	=	11.26%#	
51) 2-Fluorobiphenyl	6.858	172	92661	5.52	ppm	0.00
Spiked Amount 50.000	Range 21 - 58		Recovery	=	11.04%#	
73) 2,4,6-Tribromophenol	8.088	330	9517	5.13	ppm	0.00
Spiked Amount 50.000	Range 12 - 68		Recovery	=	10.26%#	
85) Terphenyl-d14	10.677	244	80782	5.16	ppm	0.00
Spiked Amount 50.000	Range 16 - 65		Recovery	=	10.32%#	
112) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
113) O-terphenyl	0.000	230	0	0.00	ppm	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.269	88	26300	5.08	ppm	98
3) Pyridine	2.600	79	64496	5.04	ppm	99
4) N-Nitrosodimethylamine	2.563	74	37027	4.90	ppm	98
6) Indene	5.125	116	90434	5.72	ppm	99
7) Cumene	4.242	105	131773	5.28	ppm	99
9) Phenol	4.611	94	73133	5.29	ppm	91
10) Aniline	4.638	93	88763	5.46	ppm	99
11) bis(2-Chloroethyl)ether	4.697	93	53728	5.38	ppm	96
12) 2-Chlorophenol	4.734	128	56616	5.48	ppm	96
13) Decane	4.782	57	87899	5.71	ppm	97
14) 1,3-Dichlorobenzene	4.863	146	62537	5.51	ppm	97
15) 1,4-Dichlorobenzene	4.927	146	60921	5.45	ppm	99
16) Benzyl alcohol	5.029	108	36423	5.63	ppm	96
17) 1,2-Dichlorobenzene	5.050	146	58121	5.63	ppm	98
18) Acetophenone	5.248	105	73468	5.79	ppm	95
19) 2-Methylphenol	5.114	108	51752	5.84	ppm	98
20) 2,2'-oxybis(1-Chloropr...	5.146	121	16267	5.59	ppm #	86
21) 3&4-Methylphenol	5.242	108	53902	5.83	ppm	100
22) n-Nitroso-di-n-propyla...	5.248	70	38857	5.93	ppm	95

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2547\
Data File : 2p58370.D
Acq On : 19 Apr 2016 6:33 pm
Operator : robertl1
Sample : IC2547-5
Misc : op92038,e2p2547
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 20 08:29:44 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2547.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Apr 20 08:21:19 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
23)	Hexachloroethane	5.333	201	18063	5.33	ppm		97
26)	Nitrobenzene	5.387	77	55711	5.66	ppm		99
27)	Quinoline	6.259	129	95124	5.42	ppm		98
28)	Isophorone	5.585	82	99254	5.63	ppm		94
29)	2-Nitrophenol	5.654	139	26575	5.46	ppm		88
30)	2,4-Dimethylphenol	5.686	107	48203	5.57	ppm		97
31)	Benzoic acid	5.729	105	33624	4.96	ppm		87
32)	bis(2-Chloroethoxy)met...	5.772	93	62806	5.73	ppm		98
33)	2,4-Dichlorophenol	5.847	162	41359	5.55	ppm		96
34)	2,6-Dichlorophenol	6.034	162	39661	5.65	ppm		99
35)	1,3,5-Trichlorobenzene	5.660	180	47599	5.56	ppm		99
36)	1,2,4-Trichlorobenzene	5.922	180	45448	5.54	ppm		99
37)	1,2,3-Trichlorobenzene	6.104	180	42358	5.55	ppm		94
38)	Naphthalene	5.986	128	144639	5.67	ppm		99
39)	4-Chloroaniline	6.029	127	64937	5.89	ppm		98
40)	2,3-Dichloroaniline	6.788	161	51670	5.66	ppm		100
41)	Caprolactam	6.301	113	15434	5.40	ppm		98
42)	Hexachlorobutadiene	6.088	225	21702	5.35	ppm		99
43)	4-Chloro-3-methylphenol	6.425	107	42724	5.59	ppm		95
44)	2-Methylnaphthalene	6.558	141	78184	5.49	ppm		99
45)	1-Methylnaphthalene	6.638	141	81765	5.60	ppm		99
46)	Dimethylnaphthalene	7.072	156	80589	5.60	ppm		100
48)	Hexachlorocyclopentadiene	6.687	237	43524	10.03	ppm		96
49)	2,4,6-Trichlorophenol	6.783	196	27404	5.49	ppm		96
50)	2,4,5-Trichlorophenol	6.810	196	29787	5.54	ppm		95
52)	2-Chloronaphthalene	6.959	162	89092	5.63	ppm		97
53)	Biphenyl	6.943	154	110586	5.56	ppm		99
54)	2-Nitroaniline	7.040	65	30069	4.63	ppm		97
55)	Dimethylphthalate	7.195	163	92340	5.37	ppm		99
56)	Acenaphthylene	7.296	152	144053	5.59	ppm		99
57)	2,6-Dinitrotoluene	7.237	165	19161	5.25	ppm		81
58)	3-Nitroaniline	7.377	138	26675	4.82	ppm		88
59)	Acenaphthene	7.441	153	86627	5.49	ppm		98
60)	2,4-Dinitrophenol	7.462	184	11266	10.19	ppm	#	39
61)	4-Nitrophenol	7.505	109	11624	5.34	ppm		89
62)	Dibenzofuran	7.585	168	117322	5.62	ppm		99
63)	2,4-Dinitrotoluene	7.569	165	25585	5.35	ppm		88
64)	2,3,4,6-Tetrachlorophenol	7.681	232	21184	5.18	ppm		93
65)	Diethylphthalate	7.778	149	94655	5.43	ppm		99
66)	Fluorene	7.874	166	97217	5.61	ppm		99
67)	4-Chlorophenyl-phenyle...	7.879	204	41471	5.47	ppm		95
68)	4-Nitroaniline	7.885	138	27353	5.75	ppm		99
70)	4,6-Dinitro-2-methylph...	7.911	198	10165	4.16	ppm		95
71)	n-Nitrosodiphenylamine	7.981	169	63135	5.58	ppm		98
72)	1,2-Diphenylhydrazine	8.013	77	105422	5.80	ppm		97
74)	4-Bromophenyl-phenylether	8.323	248	21587	5.08	ppm		97
75)	Hexachlorobenzene	8.371	284	23878	5.25	ppm		95
76)	Pentachlorophenol	8.564	266	30678	9.97	ppm		98
77)	Phenanthrene	8.783	178	135049	5.51	ppm		98
78)	Anthracene	8.837	178	134043	5.51	ppm		98

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2547\
Data File : 2p58370.D
Acq On : 19 Apr 2016 6:33 pm
Operator : robertl1
Sample : IC2547-5
Misc : op92038,e2p2547
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 20 08:29:44 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2547.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Apr 20 08:21:19 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
79) Carbazole	9.008	167	123992	5.42 ppm	97
80) Di-n-butylphthalate	9.420	149	163440	5.37 ppm	99
81) Fluoranthene	10.153	202	135434	5.08 ppm	96
82) Octadecane	8.660	43	62680	5.84 ppm	98
84) Pyrene	10.441	202	143455	5.56 ppm	99
86) Butylbenzylphthalate	11.399	149	68815	5.22 ppm	99
87) Butyl stearate	11.538	56	61058	5.42 ppm	95
88) Benzo[a]anthracene	12.121	228	130953	5.28 ppm	97
89) 3,3'-Dichlorobenzidine	12.115	252	44100	5.25 ppm	93
90) Chrysene	12.169	228	121882	5.43 ppm	99
91) bis(2-Ethylhexyl)phtha...	12.281	149	89849	5.46 ppm	99
93) Di-n-octylphthalate	13.233	149	156247	5.30 ppm	98
94) Benzo[b]fluoranthene	13.634	252	117790	5.23 ppm	97
95) Benzo[k]fluoranthene	13.672	252	108110	5.49 ppm	98
96) Benzo[a]pyrene	14.062	252	102229	5.35 ppm	95
97) Indeno[1,2,3-cd]pyrene	15.678	276	84342	5.10 ppm	91
98) Dibenz(a,h)acridine	15.330	279	82522	5.48 ppm	98
99) Dibenz[a,h]anthracene	15.726	278	84619	5.11 ppm	94
100) 7,12-Dimethylbenz(a)an...	13.640	256	46657	5.08 ppm	99
101) Benzo[g,h,i]perylene	16.111	276	90215	5.16 ppm	91

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

7.6.6

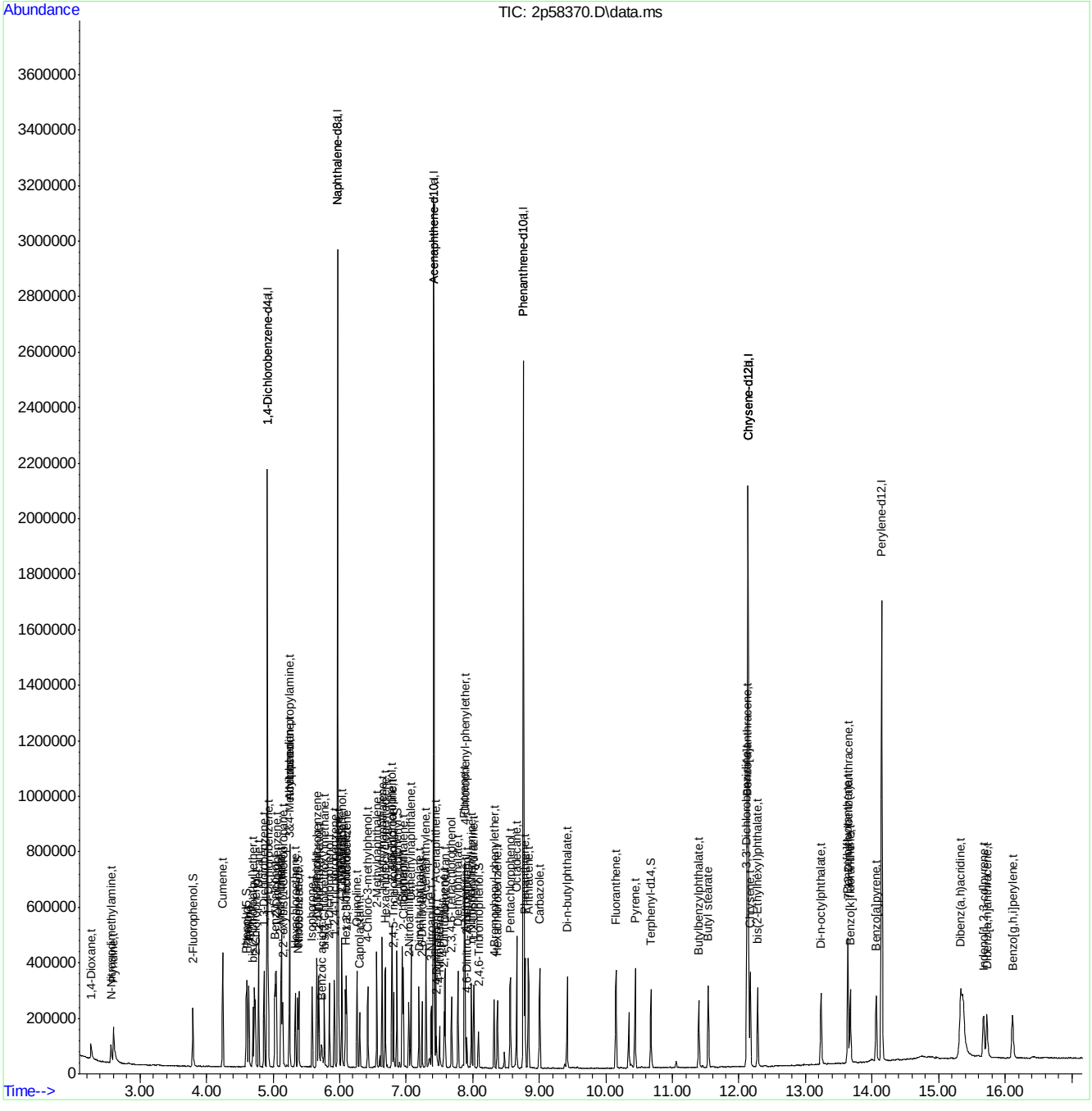
7

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2547\
Data File : 2p58370.D
Acq On : 19 Apr 2016 6:33 pm
Operator : robertl1
Sample : IC2547-5
Misc : op92038,e2p2547
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 20 08:29:44 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2547.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Apr 20 08:21:19 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2547\
Data File : 2p58371.D
Acq On : 19 Apr 2016 6:57 pm
Operator : robertl1
Sample : IC2547-2
Misc : op92038,e2p2547
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 20 08:32:16 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2547.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Apr 20 08:21:19 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.916	152	331615	40.00	ppm	0.00
24) Naphthalene-d8	5.970	136	1201853	40.00	ppm	0.00
47) Acenaphthene-d10	7.414	164	656341	40.00	ppm	0.00
69) Phenanthrene-d10	8.762	188	1016880	40.00	ppm	0.00
83) Chrysene-d12	12.137	240	976541	40.00	ppm	0.00
92) Perylene-d12	14.148	264	822786	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.916	152	331615	40.00	ppm	0.00
104) Naphthalene-d8a	5.970	136	1201853	40.00	ppm	0.00
106) Acenaphthene-d10a	7.414	164	656341	40.00	ppm	0.00
109) Chrysene-d12a	12.137	240	976541	40.00	ppm	0.00
111) Phenanthrene-d10a	8.762	188	1016880	40.00	ppm	0.00
114) Chrysene-d12b	12.137	240	976541	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.798	112	26869	2.00	ppm	0.00
Spiked Amount 50.000	Range 11 - 58		Recovery	=	4.00%#	
8) Phenol-d5	4.595	99	31404	2.00	ppm	-0.01
Spiked Amount 50.000	Range 10 - 59		Recovery	=	4.00%#	
25) Nitrobenzene-d5	5.371	82	24905	2.10	ppm	0.00
Spiked Amount 50.000	Range 19 - 61		Recovery	=	4.20%#	
51) 2-Fluorobiphenyl	6.858	172	45301	2.22	ppm	0.00
Spiked Amount 50.000	Range 21 - 58		Recovery	=	4.44%#	
73) 2,4,6-Tribromophenol	8.088	330	4620	2.05	ppm	0.00
Spiked Amount 50.000	Range 12 - 68		Recovery	=	4.10%#	
85) Terphenyl-d14	10.677	244	40203	2.05	ppm	0.00
Spiked Amount 50.000	Range 16 - 65		Recovery	=	4.10%#	
112) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
113) O-terphenyl	0.000	230	0	0.00	ppm	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.274	88	10877	1.78	ppm	92
3) Pyridine	2.611	79	29237	1.94	ppm	96
4) N-Nitrosodimethylamine	2.568	74	16574	1.86	ppm	94
6) Indene	5.125	116	43040	2.31	ppm	99
7) Cumene	4.242	105	61131	2.08	ppm	99
9) Phenol	4.611	94	34405	2.11	ppm	88
10) Aniline	4.638	93	41937	2.19	ppm	99
11) bis(2-Chloroethyl)ether	4.697	93	24761	2.11	ppm	99
12) 2-Chlorophenol	4.734	128	26897	2.21	ppm	95
13) Decane	4.782	57	41136	2.27	ppm	96
14) 1,3-Dichlorobenzene	4.863	146	29450	2.20	ppm	100
15) 1,4-Dichlorobenzene	4.927	146	29070	2.21	ppm	96
16) Benzyl alcohol	5.028	108	16729	2.20	ppm	94
17) 1,2-Dichlorobenzene	5.050	146	26572	2.18	ppm	98
18) Acetophenone	5.248	105	35412	2.37	ppm	94
19) 2-Methylphenol	5.114	108	23798	2.28	ppm	99
20) 2,2'-oxybis(1-Chloropr...	5.146	121	7736	2.26	ppm #	94
21) 3&4-Methylphenol	5.242	108	24760	2.27	ppm	93
22) n-Nitroso-di-n-propyla...	5.248	70	18005	2.33	ppm	97

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2547\
Data File : 2p58371.D
Acq On : 19 Apr 2016 6:57 pm
Operator : robertl1
Sample : IC2547-2
Misc : op92038,e2p2547
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 20 08:32:16 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2547.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Apr 20 08:21:19 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
23)	Hexachloroethane	5.333	201	8755	2.19	ppm		93
26)	Nitrobenzene	5.387	77	27198	2.27	ppm		96
27)	Quinoline	6.259	129	46817	2.20	ppm		98
28)	Isophorone	5.585	82	45456	2.12	ppm		95
29)	2-Nitrophenol	5.654	139	11926	2.02	ppm		84
30)	2,4-Dimethylphenol	5.686	107	22765	2.17	ppm		94
31)	Benzoic acid	5.718	105	14990	1.82	ppm		93
32)	bis(2-Chloroethoxy)met...	5.772	93	29828	2.24	ppm		99
33)	2,4-Dichlorophenol	5.847	162	18742	2.07	ppm		98
34)	2,6-Dichlorophenol	6.034	162	19092	2.24	ppm		98
35)	1,3,5-Trichlorobenzene	5.660	180	22969	2.21	ppm		98
36)	1,2,4-Trichlorobenzene	5.922	180	21881	2.19	ppm		98
37)	1,2,3-Trichlorobenzene	6.104	180	20268	2.19	ppm		93
38)	Naphthalene	5.986	128	70355	2.27	ppm		99
39)	4-Chloroaniline	6.029	127	29573	2.21	ppm		97
40)	2,3-Dichloroaniline	6.788	161	24500	2.21	ppm		99
41)	Caprolactam	6.296	113	7095	2.04	ppm		97
42)	Hexachlorobutadiene	6.088	225	10675	2.17	ppm		98
43)	4-Chloro-3-methylphenol	6.424	107	19671	2.12	ppm		89
44)	2-Methylnaphthalene	6.558	141	37387	2.16	ppm		98
45)	1-Methylnaphthalene	6.638	141	38426	2.17	ppm		99
46)	Dimethylnaphthalene	7.072	156	39763	2.28	ppm		95
48)	Hexachlorocyclopentadiene	6.687	237	18625	3.53	ppm		99
49)	2,4,6-Trichlorophenol	6.783	196	12836	2.11	ppm		97
50)	2,4,5-Trichlorophenol	6.810	196	13803	2.11	ppm		100
52)	2-Chloronaphthalene	6.954	162	44245	2.30	ppm		98
53)	Biphenyl	6.943	154	54536	2.26	ppm		98
54)	2-Nitroaniline	7.040	65	14066	1.78	ppm		92
55)	Dimethylphthalate	7.189	163	45461	2.17	ppm		98
56)	Acenaphthylene	7.296	152	68944	2.20	ppm		98
57)	2,6-Dinitrotoluene	7.237	165	8577	1.93	ppm		79
58)	3-Nitroaniline	7.377	138	11962	1.78	ppm		90
59)	Acenaphthene	7.441	153	42499	2.21	ppm		97
60)	2,4-Dinitrophenol	7.462	184	3602	5.84	ppm	#	19
61)	4-Nitrophenol	7.500	109	5277	1.99	ppm		93
62)	Dibenzofuran	7.585	168	56497	2.23	ppm		98
63)	2,4-Dinitrotoluene	7.569	165	11503	1.98	ppm		90
64)	2,3,4,6-Tetrachlorophenol	7.681	232	10096	2.03	ppm		92
65)	Diethylphthalate	7.778	149	46107	2.17	ppm		99
66)	Fluorene	7.874	166	46383	2.20	ppm		98
67)	4-Chlorophenyl-phenyle...	7.879	204	20399	2.21	ppm		93
68)	4-Nitroaniline	7.885	138	12083	2.09	ppm		97
70)	4,6-Dinitro-2-methylph...	7.911	198	3484	1.17	ppm		91
71)	n-Nitrosodiphenylamine	7.976	169	31464	2.29	ppm		97
72)	1,2-Diphenylhydrazine	8.013	77	50879	2.30	ppm		98
74)	4-Bromophenyl-phenylether	8.323	248	11036	2.13	ppm		94
75)	Hexachlorobenzene	8.371	284	11817	2.13	ppm		97
76)	Pentachlorophenol	8.564	266	13413	3.58	ppm		94
77)	Phenanthrene	8.783	178	66660	2.23	ppm		98
78)	Anthracene	8.837	178	65383	2.21	ppm		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2547\
Data File : 2p58371.D
Acq On : 19 Apr 2016 6:57 pm
Operator : robertl1
Sample : IC2547-2
Misc : op92038,e2p2547
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 20 08:32:16 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2547.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Apr 20 08:21:19 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
79)	Carbazole	9.008	167	60230	2.16	ppm	99
80)	Di-n-butylphthalate	9.420	149	77404	2.09	ppm	98
81)	Fluoranthene	10.152	202	65864	2.03	ppm	96
82)	Octadecane	8.660	43	29167	2.23	ppm	99
84)	Pyrene	10.441	202	70308	2.17	ppm	99
86)	Butylbenzylphthalate	11.399	149	32157	1.94	ppm	96
87)	Butyl stearate	11.538	56	28155	1.99	ppm	96
88)	Benzo[a]anthracene	12.121	228	64501	2.07	ppm	97
89)	3,3'-Dichlorobenzidine	12.115	252	20285	1.92	ppm	96
90)	Chrysene	12.169	228	59309	2.11	ppm	99
91)	bis(2-Ethylhexyl)phtha...	12.281	149	41703	2.02	ppm	98
93)	Di-n-octylphthalate	13.233	149	67081	1.79	ppm	99
94)	Benzo[b]fluoranthene	13.634	252	55488	1.94	ppm	94
95)	Benzo[k]fluoranthene	13.672	252	53226	2.13	ppm	94
96)	Benzo[a]pyrene	14.062	252	48664	2.01	ppm	97
97)	Indeno[1,2,3-cd]pyrene	15.672	276	39399	1.88	ppm	90
98)	Dibenz(a,h)acridine	15.335	279	35499	1.86	ppm	97
99)	Dibenz[a,h]anthracene	15.726	278	40520	1.93	ppm	98
100)	7,12-Dimethylbenz(a)an...	13.640	256	22608	1.94	ppm	98
101)	Benzo[g,h,i]perylene	16.111	276	43653	1.97	ppm	91

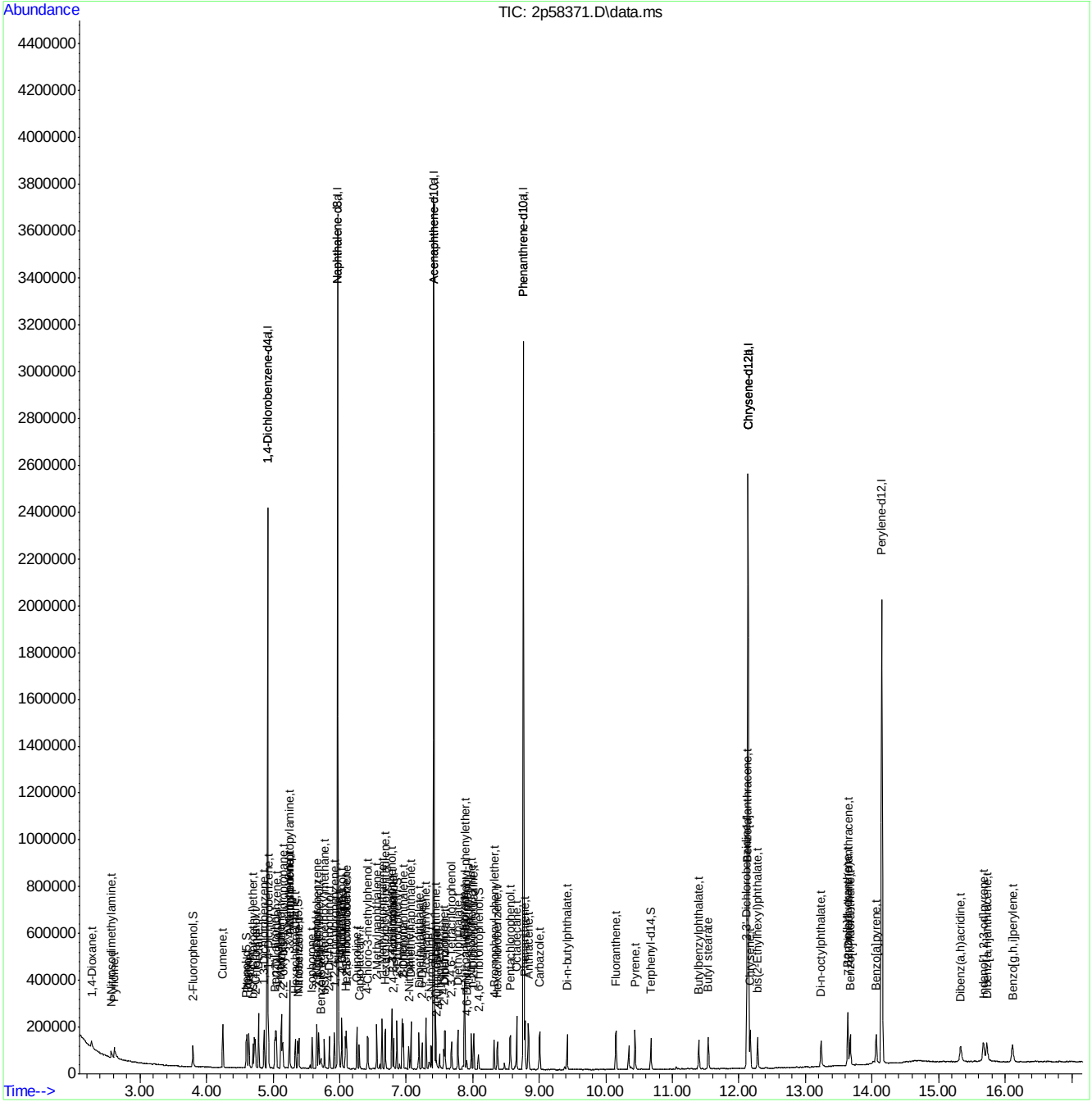
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2547\
Data File : 2p58371.D
Acq On : 19 Apr 2016 6:57 pm
Operator : robertl1
Sample : IC2547-2
Misc : op92038,e2p2547
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 20 08:32:16 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2547.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Apr 20 08:21:19 2016
Response via : Initial Calibration



M2P2547.M Wed Apr 20 08:32:24 2016 RPT1 Page: 4

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2547\
Data File : 2p58372.D
Acq On : 19 Apr 2016 7:21 pm
Operator : robertl1
Sample : IC2547-1
Misc : op92038,e2p2547
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 20 08:33:57 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2547.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Apr 20 08:21:19 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.911	152	332188	40.00	ppm	0.00
24) Naphthalene-d8	5.970	136	1193650	40.00	ppm	0.00
47) Acenaphthene-d10	7.414	164	647880	40.00	ppm	0.00
69) Phenanthrene-d10	8.762	188	997127	40.00	ppm	0.00
83) Chrysene-d12	12.137	240	945418	40.00	ppm	0.00
92) Perylene-d12	14.148	264	807991	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.911	152	332188	40.00	ppm	0.00
104) Naphthalene-d8a	5.970	136	1193650	40.00	ppm	0.00
106) Acenaphthene-d10a	7.414	164	647880	40.00	ppm	0.00
109) Chrysene-d12a	12.137	240	945418	40.00	ppm	0.00
111) Phenanthrene-d10a	8.762	188	997127	40.00	ppm	0.00
114) Chrysene-d12b	12.137	240	945418	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.793	112	13097	0.97	ppm	0.00
Spiked Amount 50.000	Range 11 - 58		Recovery	=	1.94%#	
8) Phenol-d5	4.595	99	15866	1.01	ppm	-0.01
Spiked Amount 50.000	Range 10 - 59		Recovery	=	2.02%#	
25) Nitrobenzene-d5	5.371	82	12994	1.10	ppm	0.00
Spiked Amount 50.000	Range 19 - 61		Recovery	=	2.20%#	
51) 2-Fluorobiphenyl	6.858	172	23189	1.15	ppm	0.00
Spiked Amount 50.000	Range 21 - 58		Recovery	=	2.30%#	
73) 2,4,6-Tribromophenol	8.088	330	2097	0.95	ppm	0.00
Spiked Amount 50.000	Range 12 - 68		Recovery	=	1.90%#	
85) Terphenyl-d14	10.677	244	19825	1.04	ppm	0.00
Spiked Amount 50.000	Range 16 - 65		Recovery	=	2.08%#	
112) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
113) O-terphenyl	0.000	230	0	0.00	ppm	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.269	88	7127	1.17	ppm	97
3) Pyridine	2.622	79	13983	0.93	ppm	98
4) N-Nitrosodimethylamine	2.574	74	8633	0.97	ppm	89
6) Indene	5.125	116	21864	1.17	ppm	98
7) Cumene	4.242	105	30249	1.03	ppm	96
9) Phenol	4.606	94	17006	1.04	ppm	91
10) Aniline	4.638	93	20813	1.08	ppm	92
11) bis(2-Chloroethyl)ether	4.697	93	13627	1.16	ppm	93
12) 2-Chlorophenol	4.729	128	12999	1.07	ppm	99
13) Decane	4.783	57	21089	1.16	ppm	96
14) 1,3-Dichlorobenzene	4.863	146	14876	1.11	ppm	97
15) 1,4-Dichlorobenzene	4.927	146	15029	1.14	ppm	98
16) Benzyl alcohol	5.023	108	8592	1.13	ppm	94
17) 1,2-Dichlorobenzene	5.050	146	14145	1.16	ppm	97
18) Acetophenone	5.248	105	18195	1.22	ppm	96
19) 2-Methylphenol	5.114	108	11831	1.13	ppm	95
20) 2,2'-oxybis(1-Chloropr...	5.146	121	4150	1.21	ppm #	70
21) 3&4-Methylphenol	5.242	108	12759	1.17	ppm	97
22) n-Nitroso-di-n-propyla...	5.248	70	9113	1.18	ppm	94

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2547\
Data File : 2p58372.D
Acq On : 19 Apr 2016 7:21 pm
Operator : robertl1
Sample : IC2547-1
Misc : op92038,e2p2547
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 20 08:33:57 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2547.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Apr 20 08:21:19 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
23)	Hexachloroethane	5.333	201	4458	1.11	ppm		98
26)	Nitrobenzene	5.387	77	13097	1.10	ppm		99
27)	Quinoline	6.259	129	23053	1.09	ppm		97
28)	Isophorone	5.585	82	23146	1.09	ppm		98
29)	2-Nitrophenol	5.649	139	6049	1.03	ppm		94
30)	2,4-Dimethylphenol	5.686	107	11584	1.11	ppm		96
31)	Benzoic acid	5.713	105	6288	0.77	ppm		95
32)	bis(2-Chloroethoxy)met...	5.772	93	15055	1.14	ppm		95
33)	2,4-Dichlorophenol	5.847	162	9613	1.07	ppm		94
34)	2,6-Dichlorophenol	6.034	162	9437	1.12	ppm		99
35)	1,3,5-Trichlorobenzene	5.660	180	11765	1.14	ppm		99
36)	1,2,4-Trichlorobenzene	5.922	180	11107	1.12	ppm		99
37)	1,2,3-Trichlorobenzene	6.104	180	10892	1.18	ppm		95
38)	Naphthalene	5.986	128	35787	1.16	ppm		99
39)	4-Chloroaniline	6.029	127	15319	1.15	ppm		99
40)	2,3-Dichloroaniline	6.788	161	12807	1.16	ppm		95
41)	Caprolactam	6.296	113	3411	0.99	ppm		85
42)	Hexachlorobutadiene	6.088	225	5403	1.10	ppm		96
43)	4-Chloro-3-methylphenol	6.419	107	9797	1.06	ppm		98
44)	2-Methylnaphthalene	6.558	141	18907	1.10	ppm		95
45)	1-Methylnaphthalene	6.638	141	19325	1.10	ppm		95
46)	Dimethylnaphthalene	7.072	156	20227	1.17	ppm		95
48)	Hexachlorocyclopentadiene	6.687	237	9022	1.73	ppm		94
49)	2,4,6-Trichlorophenol	6.783	196	6334	1.06	ppm		99
50)	2,4,5-Trichlorophenol	6.810	196	6691	1.04	ppm		98
52)	2-Chloronaphthalene	6.954	162	22191	1.17	ppm		99
53)	Biphenyl	6.938	154	27187	1.14	ppm		96
54)	2-Nitroaniline	7.040	65	7013	0.90	ppm		96
55)	Dimethylphthalate	7.189	163	23625	1.14	ppm		100
56)	Acenaphthylene	7.296	152	34124	1.10	ppm		99
57)	2,6-Dinitrotoluene	7.238	165	3996	0.91	ppm		75
58)	3-Nitroaniline	7.377	138	5691	0.86	ppm		84
59)	Acenaphthene	7.441	153	21575	1.14	ppm		98
60)	2,4-Dinitrophenol	7.462	184	1300	4.85	ppm	#	19
61)	4-Nitrophenol	7.505	109	2144	0.82	ppm		92
62)	Dibenzofuran	7.585	168	29248	1.17	ppm		96
63)	2,4-Dinitrotoluene	7.569	165	4934	0.86	ppm		90
64)	2,3,4,6-Tetrachlorophenol	7.681	232	4878	0.99	ppm		93
65)	Diethylphthalate	7.778	149	23583	1.13	ppm		96
66)	Fluorene	7.874	166	23599	1.13	ppm		97
67)	4-Chlorophenyl-phenyle...	7.879	204	10400	1.14	ppm		98
68)	4-Nitroaniline	7.885	138	5284	0.93	ppm		93
70)	4,6-Dinitro-2-methylph...	7.911	198	1436	0.49	ppm		97
71)	n-Nitrosodiphenylamine	7.981	169	15057	1.12	ppm		95
72)	1,2-Diphenylhydrazine	8.013	77	24797	1.14	ppm		99
74)	4-Bromophenyl-phenylether	8.323	248	5492	1.08	ppm		99
75)	Hexachlorobenzene	8.371	284	6037	1.11	ppm		90
76)	Pentachlorophenol	8.564	266	6480	1.76	ppm		99
77)	Phenanthrene	8.783	178	33908	1.16	ppm		98
78)	Anthracene	8.837	178	32296	1.11	ppm		98

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2547\
Data File : 2p58372.D
Acq On : 19 Apr 2016 7:21 pm
Operator : robertl1
Sample : IC2547-1
Misc : op92038,e2p2547
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 20 08:33:57 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2547.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Apr 20 08:21:19 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
79) Carbazole	9.008	167	30798	1.13 ppm	98
80) Di-n-butylphthalate	9.420	149	36053	0.99 ppm	99
81) Fluoranthene	10.153	202	32405	1.02 ppm	96
82) Octadecane	8.660	43	13680	1.07 ppm	97
84) Pyrene	10.441	202	35754	1.14 ppm	98
86) Butylbenzylphthalate	11.399	149	15181	0.95 ppm	91
87) Butyl stearate	11.538	56	12111	0.88 ppm	94
88) Benzo[a]anthracene	12.121	228	32870	1.09 ppm	99
89) 3,3'-Dichlorobenzidine	12.116	252	9565	0.94 ppm	97
90) Chrysene	12.169	228	30750	1.13 ppm	99
91) bis(2-Ethylhexyl)phtha...	12.281	149	18696	0.93 ppm	97
93) Di-n-octylphthalate	13.239	149	29809	0.81 ppm	98
94) Benzo[b]fluoranthene	13.635	252	27873	0.99 ppm	95
95) Benzo[k]fluoranthene	13.672	252	26037	1.06 ppm	91
96) Benzo[a]pyrene	14.062	252	23100	0.97 ppm	96
97) Indeno[1,2,3-cd]pyrene	15.678	276	19314	0.94 ppm	95
98) Dibenz(a,h)acridine	15.335	279	17641	0.94 ppm	95
99) Dibenz[a,h]anthracene	15.731	278	20577	1.00 ppm	97
100) 7,12-Dimethylbenz(a)an...	13.640	256	10380	0.91 ppm	98
101) Benzo[g,h,i]perylene	16.111	276	21653	0.99 ppm	95

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

7.6.8

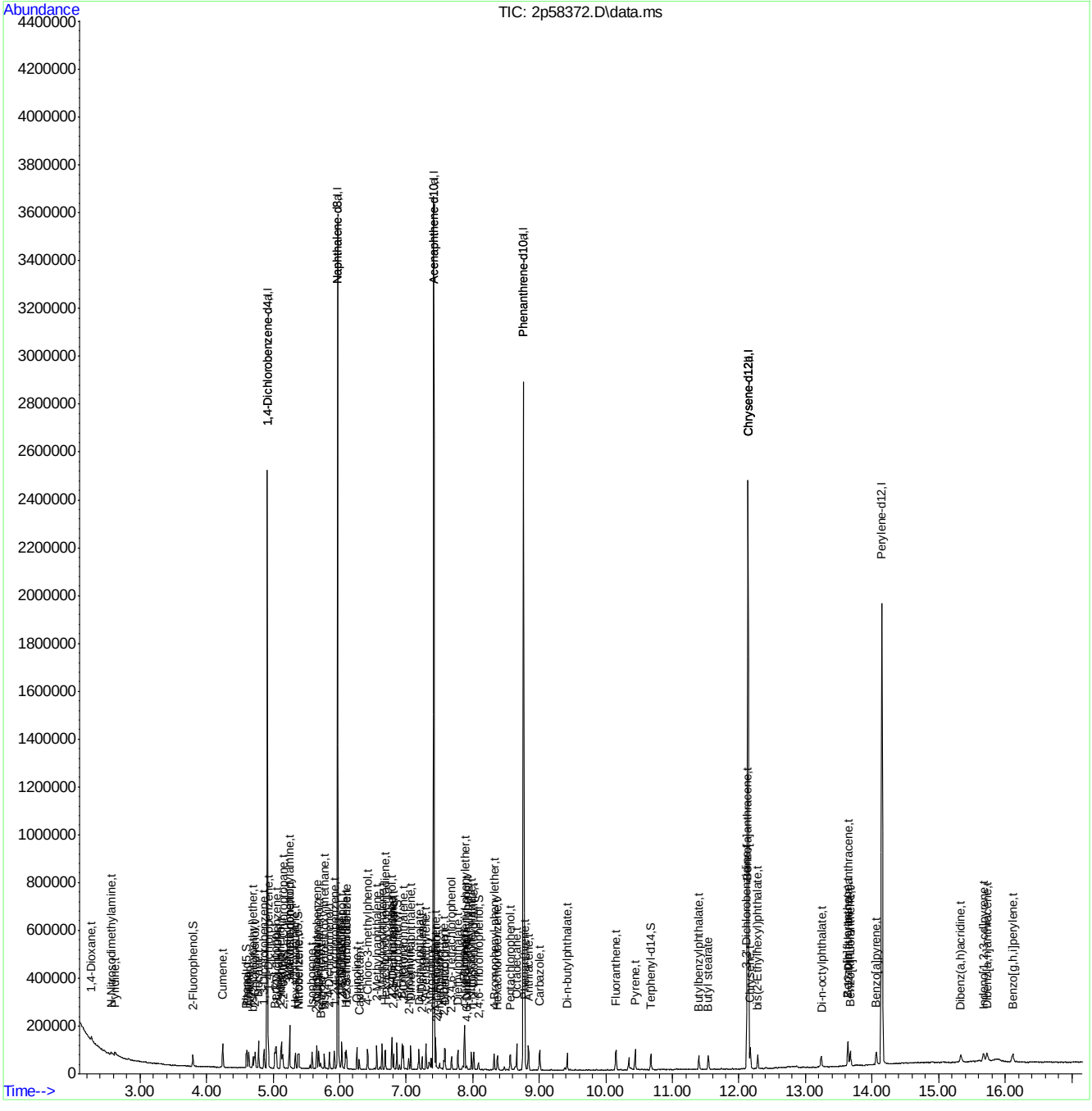
7

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2547\
Data File : 2p58372.D
Acq On : 19 Apr 2016 7:21 pm
Operator : robertl1
Sample : IC2547-1
Misc : op92038,e2p2547
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 20 08:33:57 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2547.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Apr 20 08:21:19 2016
Response via : Initial Calibration



SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2548\
Data File : 2p58384.D
Acq On : 19 Apr 2016 11:51 pm
Operator : sarad
Sample : icv2547-50
Misc : op92038,e2p2548
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 20 00:10:12 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2547.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Apr 19 23:30:49 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.911	152	267111	40.00	ppm	0.00
24) Naphthalene-d8	5.970	136	961794	40.00	ppm	0.00
47) Acenaphthene-d10	7.414	164	480383	40.00	ppm	0.00
69) Phenanthrene-d10	8.762	188	719769	40.00	ppm	0.00
83) Chrysene-d12	12.132	240	653538	40.00	ppm	-0.01
92) Perylene-d12	14.143	264	521135	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4a	4.911	152	267111	40.00	ppm	0.00
104) Naphthalene-d8a	5.970	136	961794	40.00	ppm	0.00
106) Acenaphthene-d10a	7.414	164	480383	40.00	ppm	0.00
109) Chrysene-d12a	12.132	240	653538	40.00	ppm	0.00
111) Phenanthrene-d10a	8.762	188	719769	40.00	ppm	0.00
114) Chrysene-d12b	12.132	240	653538	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.798	112	508314	46.98	ppm	0.00
Spiked Amount 50.000	Range 11 - 58		Recovery = 93.96%#			
8) Phenol-d5	4.601	99	583443	46.02	ppm	0.00
Spiked Amount 50.000	Range 10 - 59		Recovery = 92.04%#			
25) Nitrobenzene-d5	5.371	82	470626	49.63	ppm	0.00
Spiked Amount 50.000	Range 19 - 61		Recovery = 99.26%#			
51) 2-Fluorobiphenyl	6.858	172	819463	54.83	ppm	0.00
Spiked Amount 50.000	Range 21 - 58		Recovery = 109.66%#			
73) 2,4,6-Tribromophenol	8.088	330	76367	47.79	ppm	0.00
Spiked Amount 50.000	Range 12 - 68		Recovery = 95.58%#			
85) Terphenyl-d14	10.677	244	711010	54.05	ppm	0.00
Spiked Amount 50.000	Range 16 - 65		Recovery = 108.10%#			
112) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
113) O-terphenyl	0.000	230	0	0.00	ppm	

Target Compounds Qvalue

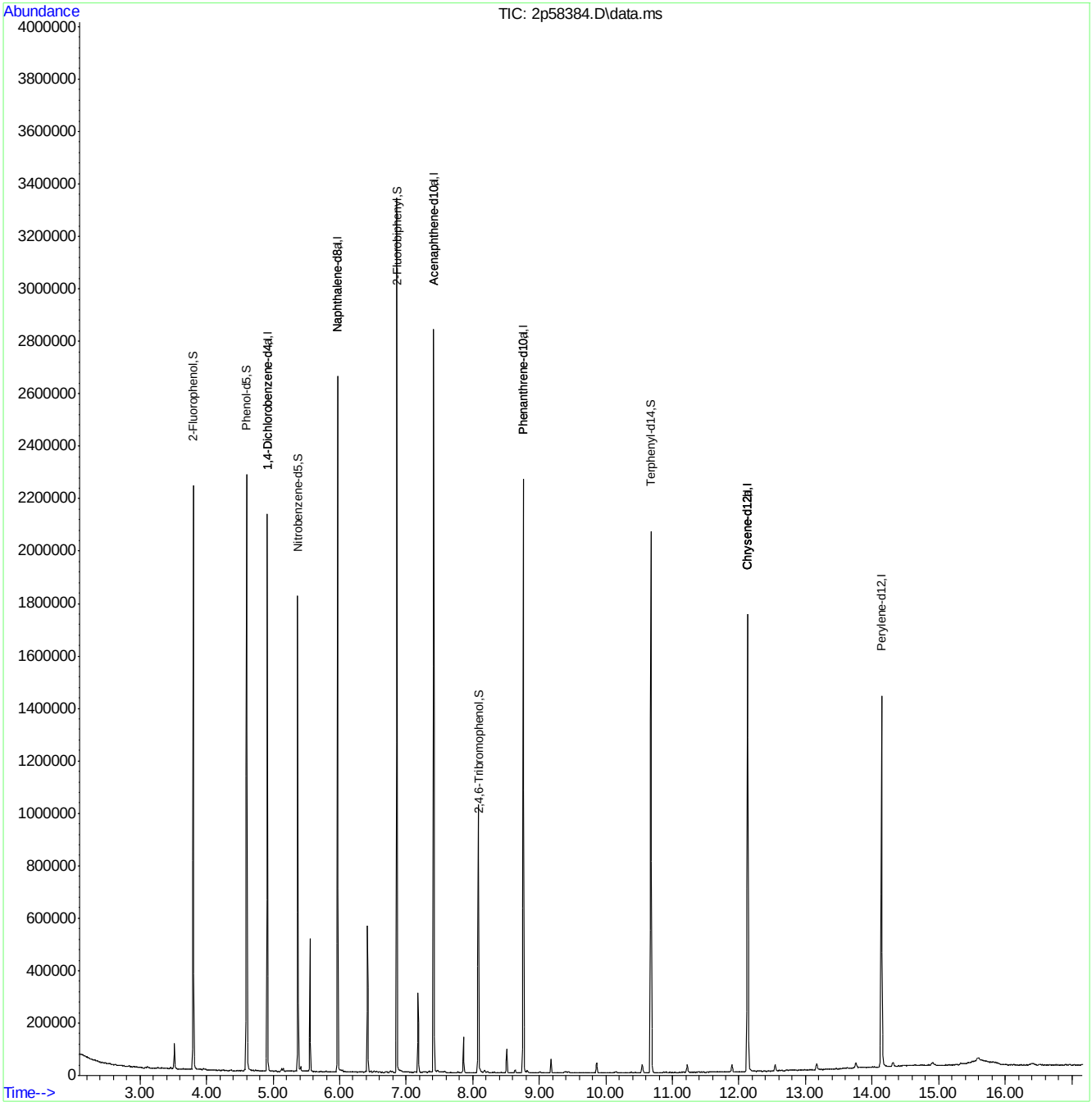
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2548\
Data File : 2p58384.D
Acq On : 19 Apr 2016 11:51 pm
Operator : sarad
Sample : icv2547-50
Misc : op92038,e2p2548
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 20 00:10:12 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2547.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Apr 19 23:30:49 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2548\
Data File : 2p58385.D
Acq On : 20 Apr 2016 12:14 am
Operator : sarad
Sample : icv2547-50
Misc : op92038,e2p2548
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 20 16:29:35 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2547.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Apr 20 08:45:45 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.916	152	225854	40.00	ppm	0.00
24) Naphthalene-d8	5.970	136	763841	40.00	ppm	0.00
47) Acenaphthene-d10	7.414	164	387809	40.00	ppm	0.00
69) Phenanthrene-d10	8.762	188	610662	40.00	ppm	0.00
83) Chrysene-d12	12.137	240	551633	40.00	ppm	0.00
92) Perylene-d12	14.143	264	465132	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.916	152	225854	40.00	ppm	0.00
104) Naphthalene-d8a	5.970	136	763841	40.00	ppm	0.00
106) Acenaphthene-d10a	7.414	164	387809	40.00	ppm	0.00
109) Chrysene-d12a	12.137	240	551633	40.00	ppm	0.00
111) Phenanthrene-d10a	8.762	188	610662	40.00	ppm	0.00
114) Chrysene-d12b	12.137	240	551633	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000	Range 11 - 58		Recovery = 0.00%#			
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000	Range 10 - 59		Recovery = 0.00%#			
25) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000	Range 19 - 61		Recovery = 0.00%#			
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000	Range 21 - 58		Recovery = 0.00%#			
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000	Range 12 - 68		Recovery = 0.00%#			
85) Terphenyl-d14	0.000	244	0d	0.00	ppm	
Spiked Amount 50.000	Range 16 - 65		Recovery = 0.00%#			
112) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
113) O-terphenyl	0.000	230	0d	0.00	ppm	
Target Compounds						Qvalue
4) N-Nitrosodimethylamine	2.558	74	286861	47.28	ppm	92
11) bis(2-Chloroethyl)ether	4.697	93	436997	54.58	ppm	97
14) 1,3-Dichlorobenzene	4.863	146	477470	52.43	ppm	97
15) 1,4-Dichlorobenzene	4.927	146	465111	51.89	ppm	98
17) 1,2-Dichlorobenzene	5.050	146	430676	51.99	ppm	96
20) 2,2'-oxybis(1-Chloropr...	5.146	121	111129	47.61	ppm #	88
22) n-Nitroso-di-n-propyla...	5.253	70	261955	48.47	ppm	88
23) Hexachloroethane	5.333	201	135517	49.82	ppm	94
26) Nitrobenzene	5.387	77	371208	48.85	ppm	97
28) Isophorone	5.590	82	688745	50.61	ppm	96
32) bis(2-Chloroethoxy)met...	5.772	93	421673	49.81	ppm	94
36) 1,2,4-Trichlorobenzene	5.922	180	323985	51.13	ppm	99
38) Naphthalene	5.986	128	1007035	51.18	ppm	99
42) Hexachlorobutadiene	6.088	225	164321	52.44	ppm	97
48) Hexachlorocyclopentadiene	6.687	237	146998	47.14	ppm	94
52) 2-Chloronaphthalene	6.959	162	619562	54.44	ppm	97
55) Dimethylphthalate	7.195	163	633804	51.29	ppm	99
56) Acenaphthylene	7.296	152	915017	49.39	ppm	99
57) 2,6-Dinitrotoluene	7.243	165	135363	51.63	ppm	84

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2548\
Data File : 2p58385.D
Acq On : 20 Apr 2016 12:14 am
Operator : sarad
Sample : icv2547-50
Misc : op92038,e2p2548
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 20 16:29:35 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2547.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Apr 20 08:45:45 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
59)	Acenaphthene	7.441	153	581998	51.28	ppm	97
63)	2,4-Dinitrotoluene	7.569	165	164157	47.78	ppm	91
65)	Diethylphthalate	7.778	149	625135	49.86	ppm	97
66)	Fluorene	7.879	166	592126	47.51	ppm	97
67)	4-Chlorophenyl-phenyle...	7.879	204	260882	47.90	ppm	98
71)	n-Nitrosodiphenylamine	7.981	169	420594	50.88	ppm	98
72)	1,2-Diphenylhydrazine	8.018	77	646084	48.60	ppm	91
74)	4-Bromophenyl-phenylether	8.323	248	158338	50.94	ppm	95
75)	Hexachlorobenzene	8.371	284	160954	48.36	ppm	98
77)	Phenanthrene	8.789	178	902063	50.30	ppm	98
78)	Anthracene	8.842	178	874452	49.16	ppm	98
80)	Di-n-butylphthalate	9.420	149	1088435	48.91	ppm	99
81)	Fluoranthene	10.153	202	961548	49.36	ppm	98
84)	Pyrene	10.441	202	1000368	52.54	ppm	99
86)	Butylbenzylphthalate	11.399	149	478818	51.25	ppm	95
88)	Benzo[a]anthracene	12.121	228	878319	49.91	ppm	99
90)	Chrysene	12.174	228	806337	50.67	ppm	99
91)	bis(2-Ethylhexyl)phtha...	12.281	149	602451	51.56	ppm	100
93)	Di-n-octylphthalate	13.233	149	1078604	50.99	ppm	97
94)	Benzo[b]fluoranthene	13.640	252	802156	49.64	ppm	94
95)	Benzo[k]fluoranthene	13.683	252	770641	54.59	ppm	91
96)	Benzo[a]pyrene	14.073	252	742121	54.12	ppm	94
97)	Indeno[1,2,3-cd]pyrene	15.688	276	659722	55.63	ppm	95
99)	Dibenz[a,h]anthracene	15.737	278	658502	55.45	ppm	100
101)	Benzo[g,h,i]perylene	16.132	276	687171	54.81	ppm	96

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

7.6.10

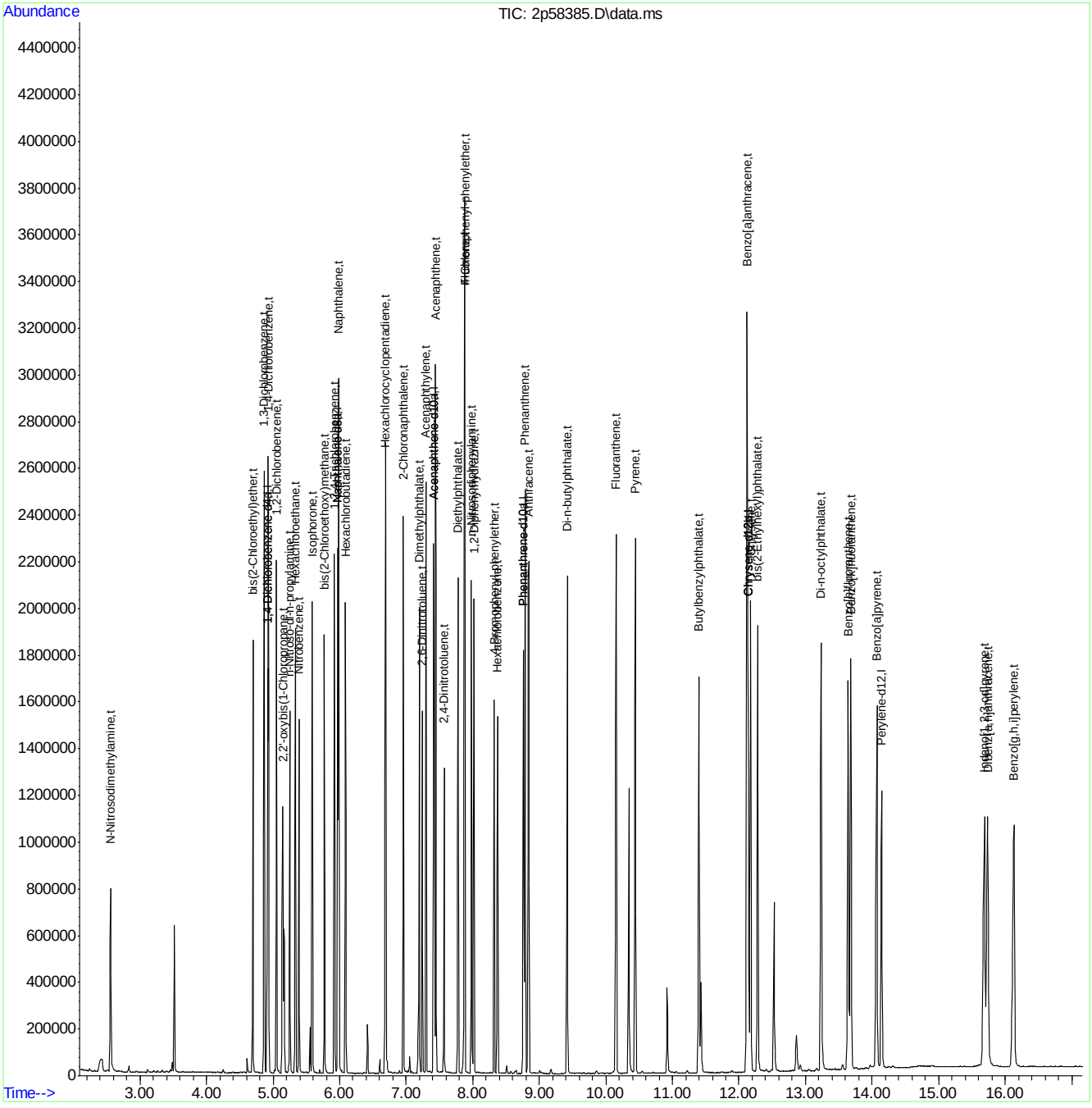
7

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2548\
Data File : 2p58385.D
Acq On : 20 Apr 2016 12:14 am
Operator : sarad
Sample : icv2547-50
Misc : op92038,e2p2548
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 20 16:29:35 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2547.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Apr 20 08:45:45 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2548\
Data File : 2p58386.D
Acq On : 20 Apr 2016 12:36 am
Operator : sarad
Sample : icv2547-50
Misc : op92038,e2p2548
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Apr 20 16:30:29 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2547.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Apr 20 08:45:45 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.911	152	245515	40.00	ppm	0.00
24) Naphthalene-d8	5.970	136	908347	40.00	ppm	0.00
47) Acenaphthene-d10	7.414	164	443733	40.00	ppm	0.00
69) Phenanthrene-d10	8.762	188	683512	40.00	ppm	0.00
83) Chrysene-d12	12.132	240	658206	40.00	ppm	0.00
92) Perylene-d12	14.143	264	517102	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.911	152	245515	40.00	ppm	0.00
104) Naphthalene-d8a	5.970	136	908347	40.00	ppm	0.00
106) Acenaphthene-d10a	7.414	164	443733	40.00	ppm	0.00
109) Chrysene-d12a	12.132	240	658206	40.00	ppm	0.00
111) Phenanthrene-d10a	8.762	188	683512	40.00	ppm	0.00
114) Chrysene-d12b	12.132	240	658206	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000	Range 11 - 58		Recovery = 0.00%#			
8) Phenol-d5	0.000	99	0d	0.00	ppm	
Spiked Amount 50.000	Range 10 - 59		Recovery = 0.00%#			
25) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000	Range 19 - 61		Recovery = 0.00%#			
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000	Range 21 - 58		Recovery = 0.00%#			
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000	Range 12 - 68		Recovery = 0.00%#			
85) Terphenyl-d14	0.000	244	0d	0.00	ppm	
Spiked Amount 50.000	Range 16 - 65		Recovery = 0.00%#			
112) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
113) O-terphenyl	0.000	230	0	0.00	ppm	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.263	88	194635	43.14	ppm	96
6) Indene	5.125	116	716444	51.97	ppm	98
7) Cumene	4.242	105	1006568	46.24	ppm	97
13) Decane	4.783	57	611167	45.55	ppm	93
18) Acetophenone	5.248	105	547775	49.52	ppm	86
27) Quinoline	6.259	129	726989	45.13	ppm	99
40) 2,3-Dichloroaniline	6.788	161	316984	37.83	ppm	94
41) Caprolactam	6.307	113	113060	43.11	ppm	88
45) 1-Methylnaphthalene	6.639	141	592550	44.23	ppm	95
46) Dimethylnaphthalene	7.072	156	574509	43.53	ppm	95
53) Biphenyl	6.943	154	808328	49.46	ppm	98
82) Octadecane	8.660	43	407374	46.36	ppm	90
100) 7,12-Dimethylbenz(a)an...	13.640	256	348571	47.60	ppm	99

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

7.6.11

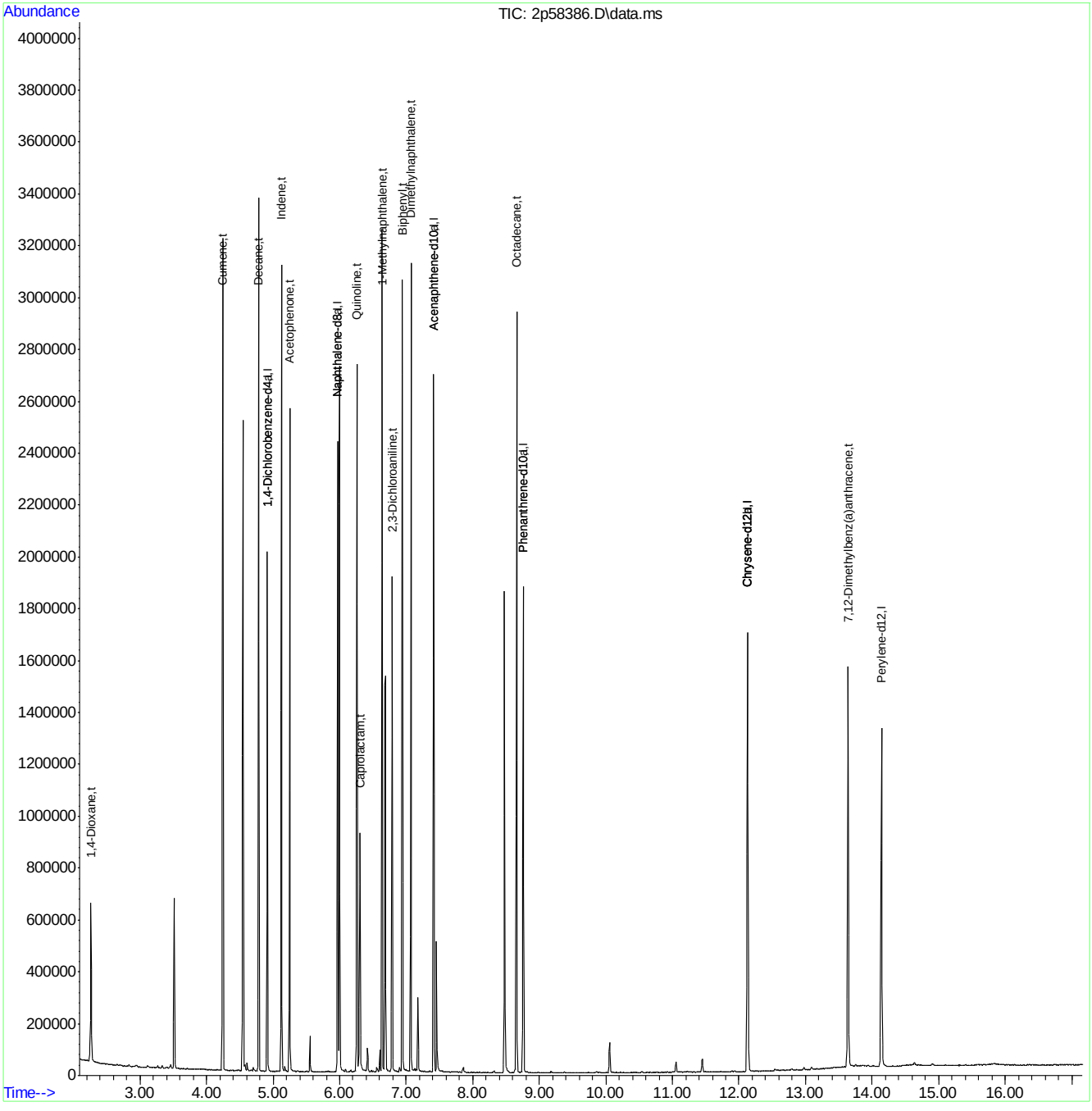
7

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2548\
Data File : 2p58386.D
Acq On : 20 Apr 2016 12:36 am
Operator : sarad
Sample : icv2547-50
Misc : op92038,e2p2548
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Apr 20 16:30:29 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2547.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Apr 20 08:45:45 2016
Response via : Initial Calibration



SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2548\
Data File : 2p58388.D
Acq On : 20 Apr 2016 1:21 am
Operator : sarad
Sample : icv2547-50
Misc : op92038,e2p2548
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Apr 20 16:34:46 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2547.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Apr 20 08:45:45 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.911	152	312896	40.00	ppm	0.00
24) Naphthalene-d8	5.970	136	1140968	40.00	ppm	0.00
47) Acenaphthene-d10	7.414	164	612864	40.00	ppm	0.00
69) Phenanthrene-d10	8.762	188	955638	40.00	ppm	0.00
83) Chrysene-d12	12.132	240	907422	40.00	ppm	0.00
92) Perylene-d12	14.148	264	739431	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.911	152	312896	40.00	ppm	0.00
104) Naphthalene-d8a	5.970	136	1140968	40.00	ppm	0.00
106) Acenaphthene-d10a	7.414	164	612864	40.00	ppm	0.00
109) Chrysene-d12a	12.132	240	907422	40.00	ppm	0.00
111) Phenanthrene-d10a	8.762	188	955638	40.00	ppm	0.00
114) Chrysene-d12b	12.132	240	907422	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000	Range 11 - 58		Recovery = 0.00%#			
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000	Range 10 - 59		Recovery = 0.00%#			
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000	Range 19 - 61		Recovery = 0.00%#			
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000	Range 21 - 58		Recovery = 0.00%#			
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000	Range 12 - 68		Recovery = 0.00%#			
85) Terphenyl-d14	0.000	244	0d	0.00	ppm	
Spiked Amount 50.000	Range 16 - 65		Recovery = 0.00%#			
112) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
113) O-terphenyl	0.000	230	0	0.00	ppm	
Target Compounds						Qvalue
89) 3,3'-Dichlorobenzidine	12.121	252	429331	43.83	ppm	96

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

7.6.12

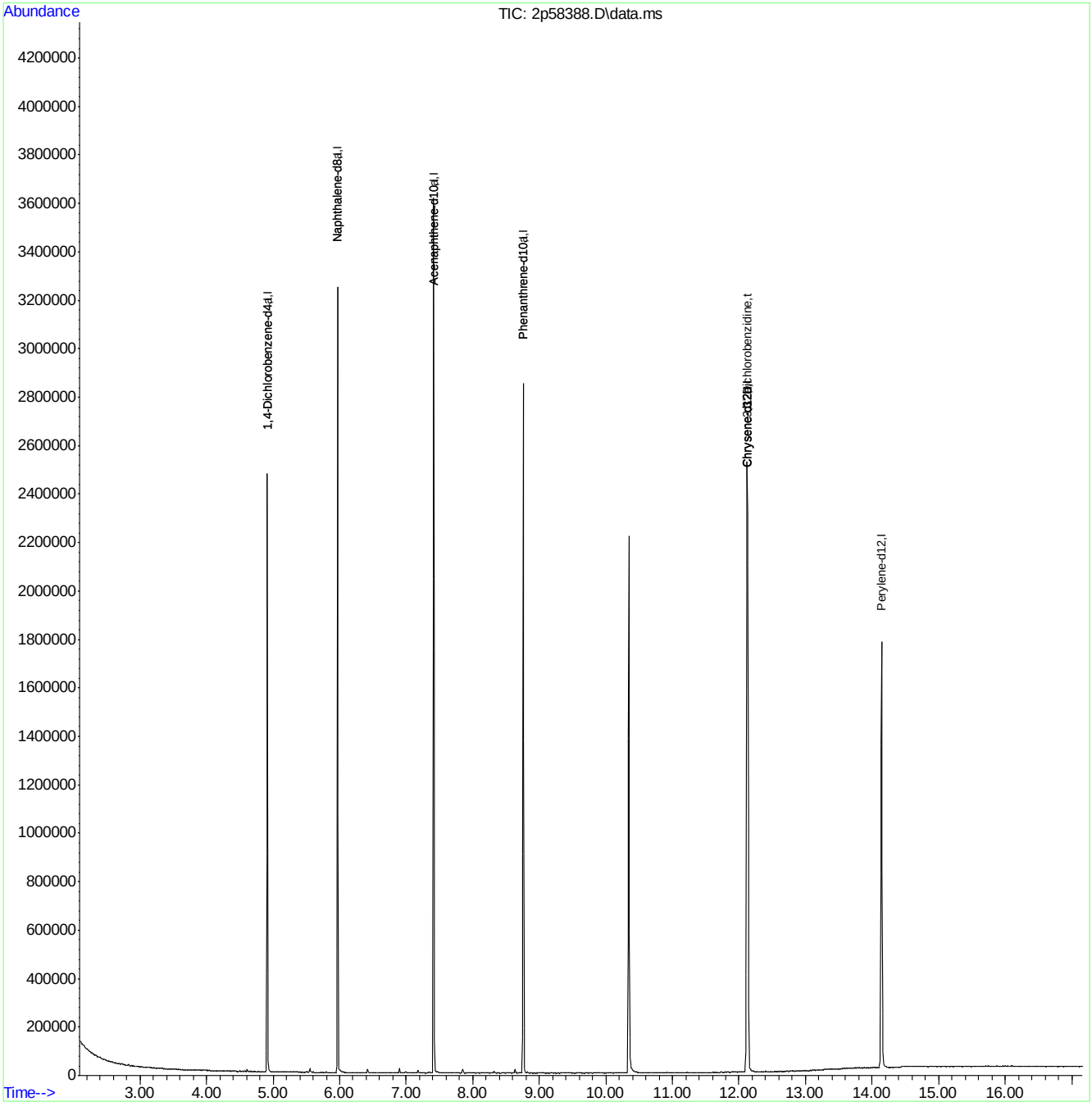
7

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2548\
Data File : 2p58388.D
Acq On : 20 Apr 2016 1:21 am
Operator : sarad
Sample : icv2547-50
Misc : op92038,e2p2548
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Apr 20 16:34:46 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2547.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Apr 20 08:45:45 2016
Response via : Initial Calibration



SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2549\
Data File : 2p58391.D
Acq On : 20 Apr 2016 9:53 am
Operator : robertl1
Sample : ICV2547-50
Misc : op92038,e2p2549
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 20 17:37:19 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2547.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Apr 20 08:45:45 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.895	152	250697	40.00	ppm	-0.02
24) Naphthalene-d8	5.949	136	846929	40.00	ppm	-0.02
47) Acenaphthene-d10	7.398	164	483791	40.00	ppm	-0.02
69) Phenanthrene-d10	8.741	188	755620	40.00	ppm	-0.02
83) Chrysene-d12	12.105	240	777389	40.00	ppm	-0.03
92) Perylene-d12	14.116	264	663496	40.00	ppm	-0.03
102) 1,4-Dichlorobenzene-d4a	4.895	152	250697	40.00	ppm	-0.02
104) Naphthalene-d8a	5.949	136	846929	40.00	ppm	-0.02
106) Acenaphthene-d10a	7.398	164	483791	40.00	ppm	-0.02
109) Chrysene-d12a	12.105	240	777389	40.00	ppm	-0.03
111) Phenanthrene-d10a	8.741	188	755620	40.00	ppm	-0.02
114) Chrysene-d12b	12.105	240	777389	40.00	ppm	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000	Range 11 - 58		Recovery = 0.00%#			
8) Phenol-d5	0.000	99	0d	0.00	ppm	
Spiked Amount 50.000	Range 10 - 59		Recovery = 0.00%#			
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000	Range 19 - 61		Recovery = 0.00%#			
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000	Range 21 - 58		Recovery = 0.00%#			
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000	Range 12 - 68		Recovery = 0.00%#			
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000	Range 16 - 65		Recovery = 0.00%#			
112) 1-chlorooctadecane	0.000	57	0	0.00	ppm	
113) O-terphenyl	0.000	230	0	0.00	ppm	
Target Compounds						Qvalue
9) Phenol	4.595	94	546786	43.36	ppm	91
12) 2-Chlorophenol	4.713	128	434642	47.25	ppm	94
19) 2-Methylphenol	5.098	108	381267	48.30	ppm	93
21) 3&4-Methylphenol	5.226	108	393831	47.81	ppm	97
29) 2-Nitrophenol	5.633	139	209449	50.28	ppm	93
30) 2,4-Dimethylphenol	5.670	107	369843	49.93	ppm	95
31) Benzoic acid	5.767	105	306865	52.90	ppm	97
33) 2,4-Dichlorophenol	5.831	162	316947	49.71	ppm	92
34) 2,6-Dichlorophenol	6.018	162	301441	50.20	ppm	98
43) 4-Chloro-3-methylphenol	6.403	107	306909	46.90	ppm	96
49) 2,4,6-Trichlorophenol	6.767	196	220919	49.37	ppm	98
50) 2,4,5-Trichlorophenol	6.794	196	219478	45.55	ppm	98
60) 2,4-Dinitrophenol	7.441	184	93822	57.45	ppm #	100
61) 4-Nitrophenol	7.489	109	99985	51.19	ppm	90
64) 2,3,4,6-Tetrachlorophenol	7.665	232	175320	47.82	ppm	91
70) 4,6-Dinitro-2-methylph...	7.895	198	124899	56.51	ppm	90
76) Pentachlorophenol	8.543	266	138342	49.70	ppm	98

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2549\
Data File : 2p58391.D
Acq On : 20 Apr 2016 9:53 am
Operator : robertl1
Sample : ICV2547-50
Misc : op92038,e2p2549
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 20 17:37:19 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2547.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Apr 20 08:45:45 2016
Response via : Initial Calibration

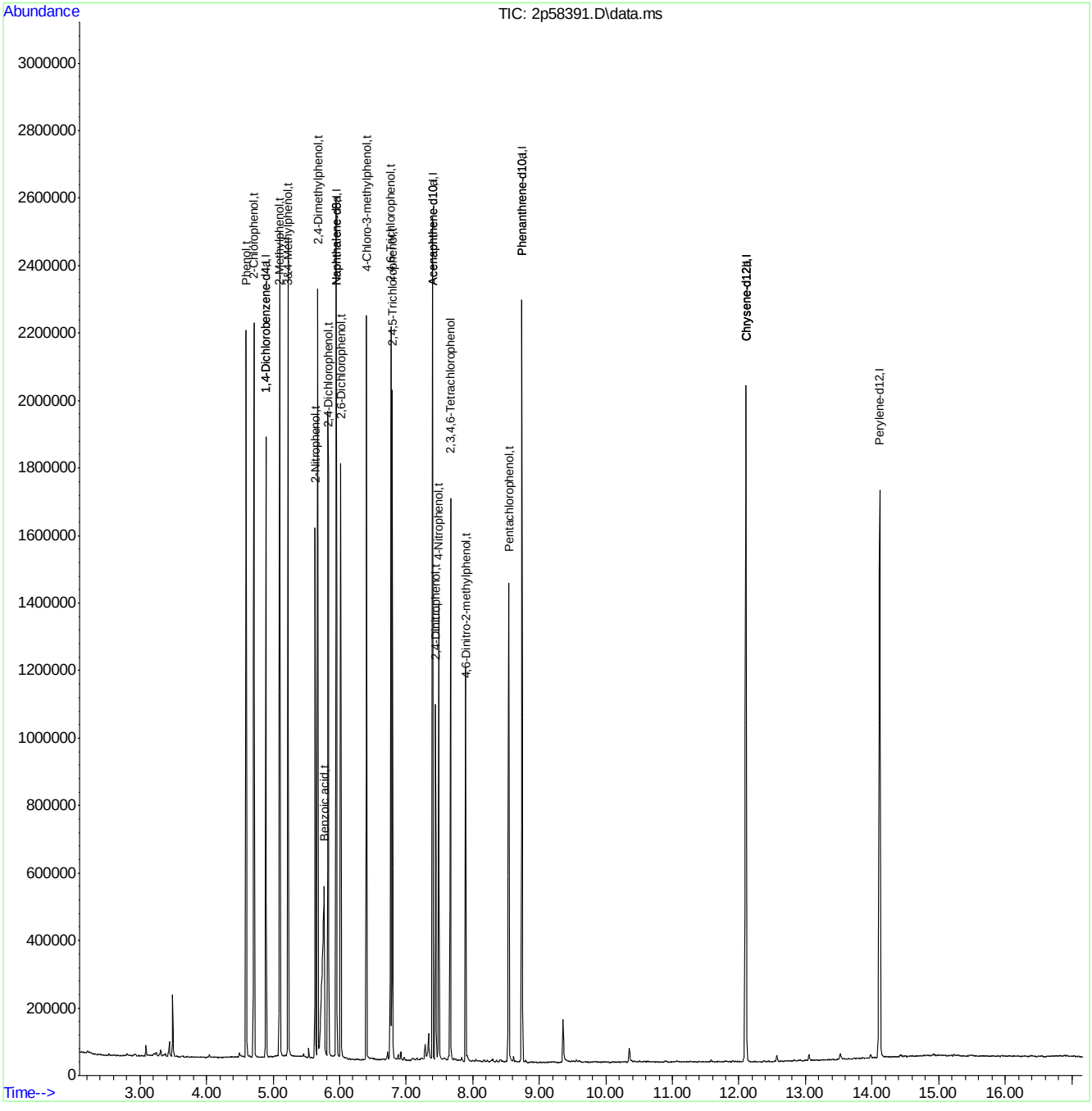
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2549\
Data File : 2p58391.D
Acq On : 20 Apr 2016 9:53 am
Operator : robertl1
Sample : ICV2547-50
Misc : op92038,e2p2549
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 20 17:37:19 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2547.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Apr 20 08:45:45 2016
Response via : Initial Calibration



SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2549\
Data File : 2p58392.D
Acq On : 20 Apr 2016 10:16 am
Operator : robertl1
Sample : ICV2547-50
Misc : op92038,e2p2549
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 20 17:38:11 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2547.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Apr 20 08:45:45 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.895	152	267380	40.00	ppm	-0.02
24) Naphthalene-d8	5.949	136	988207	40.00	ppm	-0.02
47) Acenaphthene-d10	7.398	164	513519	40.00	ppm	-0.02
69) Phenanthrene-d10	8.741	188	836003	40.00	ppm	-0.02
83) Chrysene-d12	12.105	240	818655	40.00	ppm	-0.03
92) Perylene-d12	14.116	264	708687	40.00	ppm	-0.03
102) 1,4-Dichlorobenzene-d4a	4.895	152	267380	40.00	ppm	-0.02
104) Naphthalene-d8a	5.949	136	988207	40.00	ppm	-0.02
106) Acenaphthene-d10a	7.398	164	513519	40.00	ppm	-0.02
109) Chrysene-d12a	12.105	240	818655	40.00	ppm	-0.03
111) Phenanthrene-d10a	8.741	188	836003	40.00	ppm	-0.02
114) Chrysene-d12b	12.105	240	818655	40.00	ppm	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000	Range 11 - 58		Recovery = 0.00%#			
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000	Range 10 - 59		Recovery = 0.00%#			
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000	Range 19 - 61		Recovery = 0.00%#			
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000	Range 21 - 58		Recovery = 0.00%#			
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000	Range 12 - 68		Recovery = 0.00%#			
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000	Range 16 - 65		Recovery = 0.00%#			
112) 1-chlorooctadecane	0.000	57	0	0.00	ppm	
113) O-terphenyl	0.000	230	0	0.00	ppm	
Target Compounds						Qvalue
3) Pyridine	2.670	79	530930	43.69	ppm	98
10) Aniline	4.627	93	688464	44.57	ppm	95
16) Benzyl alcohol	5.013	108	287413	46.78	ppm	97
39) 4-Chloroaniline	6.013	127	487804	44.32	ppm	97
44) 2-Methylnaphthalene	6.537	141	612699	43.09	ppm	95
54) 2-Nitroaniline	7.024	65	236031	45.09	ppm	87
58) 3-Nitroaniline	7.361	138	211847	46.22	ppm	89
62) Dibenzofuran	7.564	168	909511	45.78	ppm	93
68) 4-Nitroaniline	7.869	138	192915	42.61	ppm	94
79) Carbazole	8.987	167	1041876	45.50	ppm	98

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

7.6.14

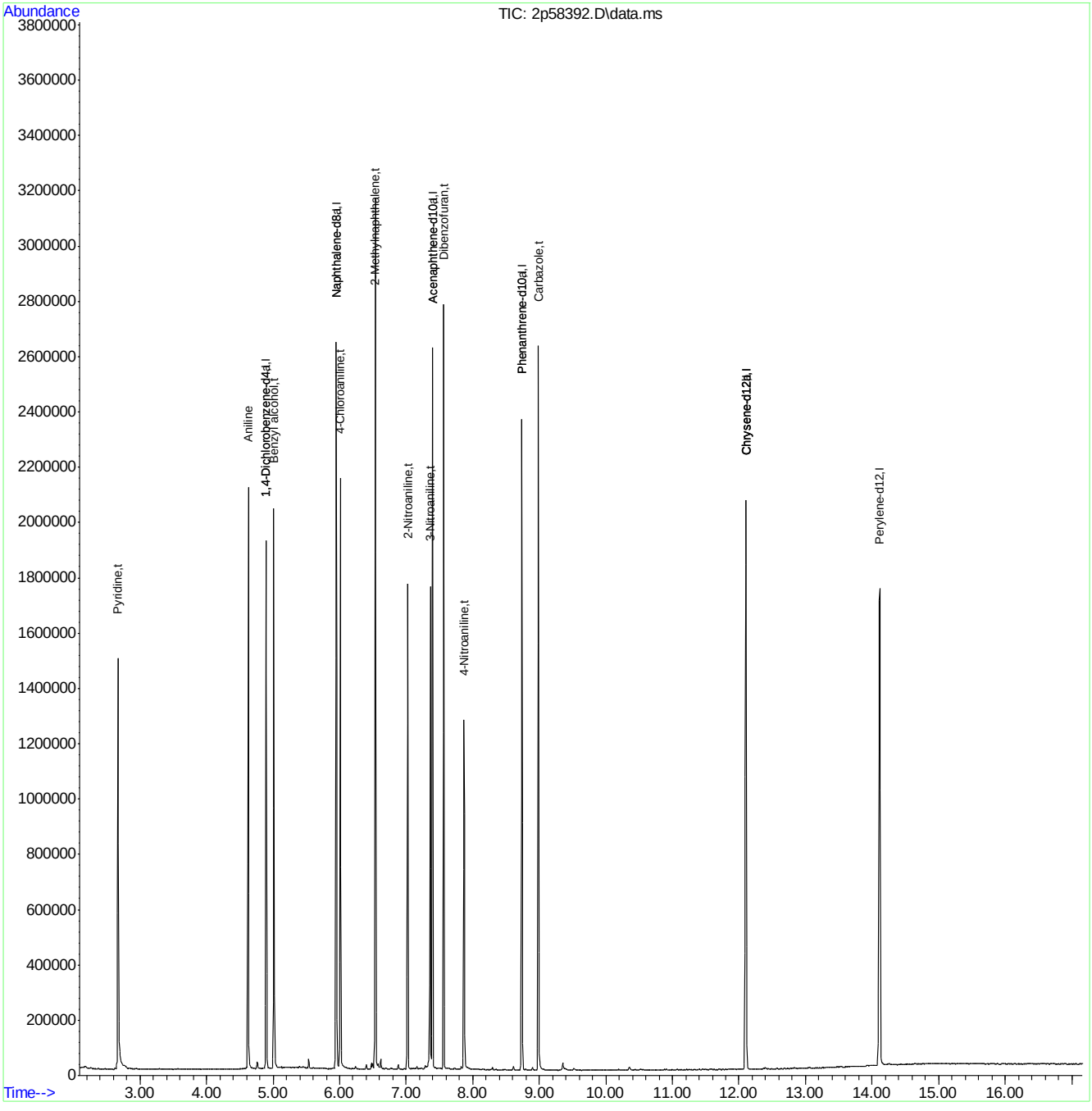
7

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2549\
Data File : 2p58392.D
Acq On : 20 Apr 2016 10:16 am
Operator : robertl1
Sample : ICV2547-50
Misc : op92038,e2p2549
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 20 17:38:11 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2547.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Apr 20 08:45:45 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2557\
Data File : 2p58525.D
Acq On : 25 Apr 2016 10:22 am
Operator : robertl1
Sample : ICC2557-50
Misc : op92038,e2p2557
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 25 15:45:18 2016
Quant Method : C:\msdchem\1\METHODS\M2P2557eph.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Apr 20 08:45:45 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.809	152	210785	40.00	ppm	-0.10
24) Naphthalene-d8	5.868	136	780127	40.00	ppm	-0.10
47) Acenaphthene-d10	7.318	164	451928	40.00	ppm	-0.10
69) Phenanthrene-d10	8.644	188	724906	40.00	ppm	-0.12
83) Chrysene-d12	11.993	240	700654	40.00	ppm	-0.14
92) Perylene-d12	13.998	264	599425	40.00	ppm	-0.15
102) 1,4-Dichlorobenzene-d4a	4.809	152	210785	40.00	ppm	-0.10
104) Naphthalene-d8a	5.868	136	780127	40.00	ppm	-0.10
106) Acenaphthene-d10a	7.318	164	451928	40.00	ppm	-0.10
109) Chrysene-d12a	11.993	240	700654	40.00	ppm	-0.14
111) Phenanthrene-d10a	8.644	188	724906	40.00	ppm	-0.12
114) Chrysene-d12b	11.993	240	700654	40.00	ppm	-0.14
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000	Range 11 - 58		Recovery	=	0.00%#	
8) Phenol-d5	0.000	99	0d	0.00	ppm	
Spiked Amount 50.000	Range 10 - 59		Recovery	=	0.00%#	
25) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000	Range 19 - 61		Recovery	=	0.00%#	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000	Range 21 - 58		Recovery	=	0.00%#	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000	Range 12 - 68		Recovery	=	0.00%#	
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000	Range 16 - 65		Recovery	=	0.00%#	
112) 1-chlorooctadecane	9.923	57	406226	48.49	ppm	-0.13
113) O-terphenyl	9.056	230	439297	46.83	ppm	-0.13
Target Compounds						Qvalue
103) Benzaldehyde	4.446	105	280046	46.60	ppm	95
105) Hydroquinone	6.216	110	366939	57.73	ppm	93
107) Atrazine	8.377	215	87502	46.97	ppm	98
108) 1,2,4,5-Tetrachloroben...	6.596	216	281200	41.97	ppm	97
110) Benzidine	10.212	184	62695	7.13	ppm	100

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

7.6.15

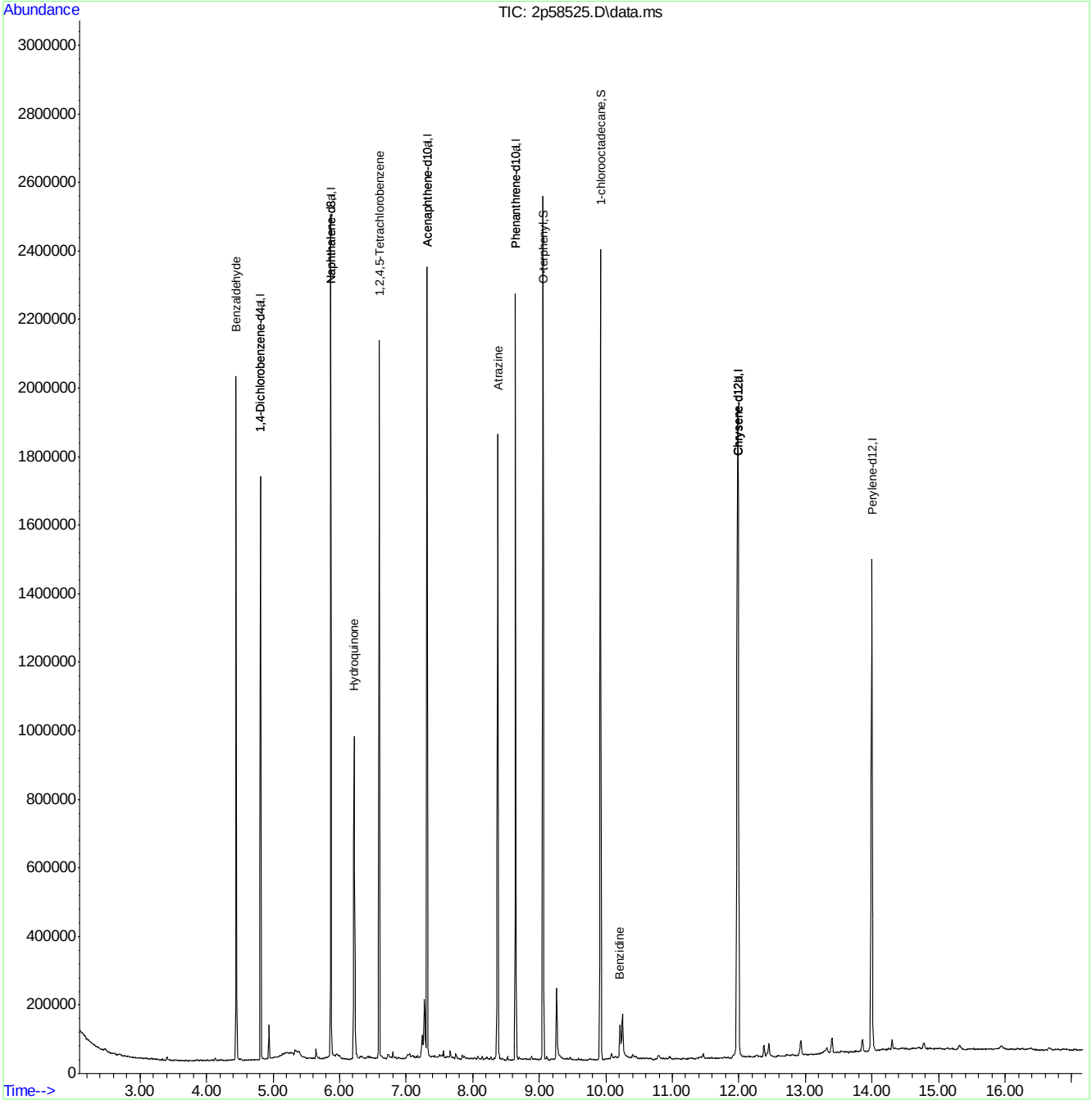
7

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2557\
Data File : 2p58525.D
Acq On : 25 Apr 2016 10:22 am
Operator : robertl1
Sample : ICC2557-50
Misc : op92038,e2p2557
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 25 15:45:18 2016
Quant Method : C:\msdchem\1\METHODS\M2P2557eph.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Apr 20 08:45:45 2016
Response via : Initial Calibration



M2P2557eph.M Mon Apr 25 15:45:36 2016 RPT1 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2557\
Data File : 2p58526.D
Acq On : 25 Apr 2016 10:45 am
Operator : robertl1
Sample : IC2557-25
Misc : op92038,e2p2557
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 25 15:46:04 2016
Quant Method : C:\msdchem\1\METHODS\M2P2557eph.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Apr 20 08:45:45 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.815	152	246041	40.00	ppm	-0.10
24) Naphthalene-d8	5.868	136	907811	40.00	ppm	-0.10
47) Acenaphthene-d10	7.318	164	525894	40.00	ppm	-0.10
69) Phenanthrene-d10	8.644	188	840983	40.00	ppm	-0.12
83) Chrysene-d12	11.992	240	837299	40.00	ppm	-0.14
92) Perylene-d12	13.998	264	720795	40.00	ppm	-0.15
102) 1,4-Dichlorobenzene-d4a	4.815	152	246041	40.00	ppm	-0.10
104) Naphthalene-d8a	5.868	136	907811	40.00	ppm	-0.10
106) Acenaphthene-d10a	7.318	164	525894	40.00	ppm	-0.10
109) Chrysene-d12a	11.992	240	837299	40.00	ppm	-0.14
111) Phenanthrene-d10a	8.644	188	840983	40.00	ppm	-0.12
114) Chrysene-d12b	11.992	240	837299	40.00	ppm	-0.14
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000	Range 11 - 58		Recovery = 0.00%#			
8) Phenol-d5	0.000	99	0d	0.00	ppm	
Spiked Amount 50.000	Range 10 - 59		Recovery = 0.00%#			
25) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000	Range 19 - 61		Recovery = 0.00%#			
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000	Range 21 - 58		Recovery = 0.00%#			
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000	Range 12 - 68		Recovery = 0.00%#			
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000	Range 16 - 65		Recovery = 0.00%#			
112) 1-chlorooctadecane	9.917	57	247327	25.45	ppm	-0.14
113) O-terphenyl	9.056	230	265414	24.39	ppm	-0.13
Target Compounds						Qvalue
103) Benzaldehyde	4.446	105	157397	22.44	ppm	93
105) Hydroquinone	6.211	110	213942	28.93	ppm	92
107) Atrazine	8.371	215	52297	24.12	ppm	95
108) 1,2,4,5-Tetrachloroben...	6.596	216	163420	20.96	ppm	97
110) Benzidine	10.211	184	66265	6.30	ppm	99

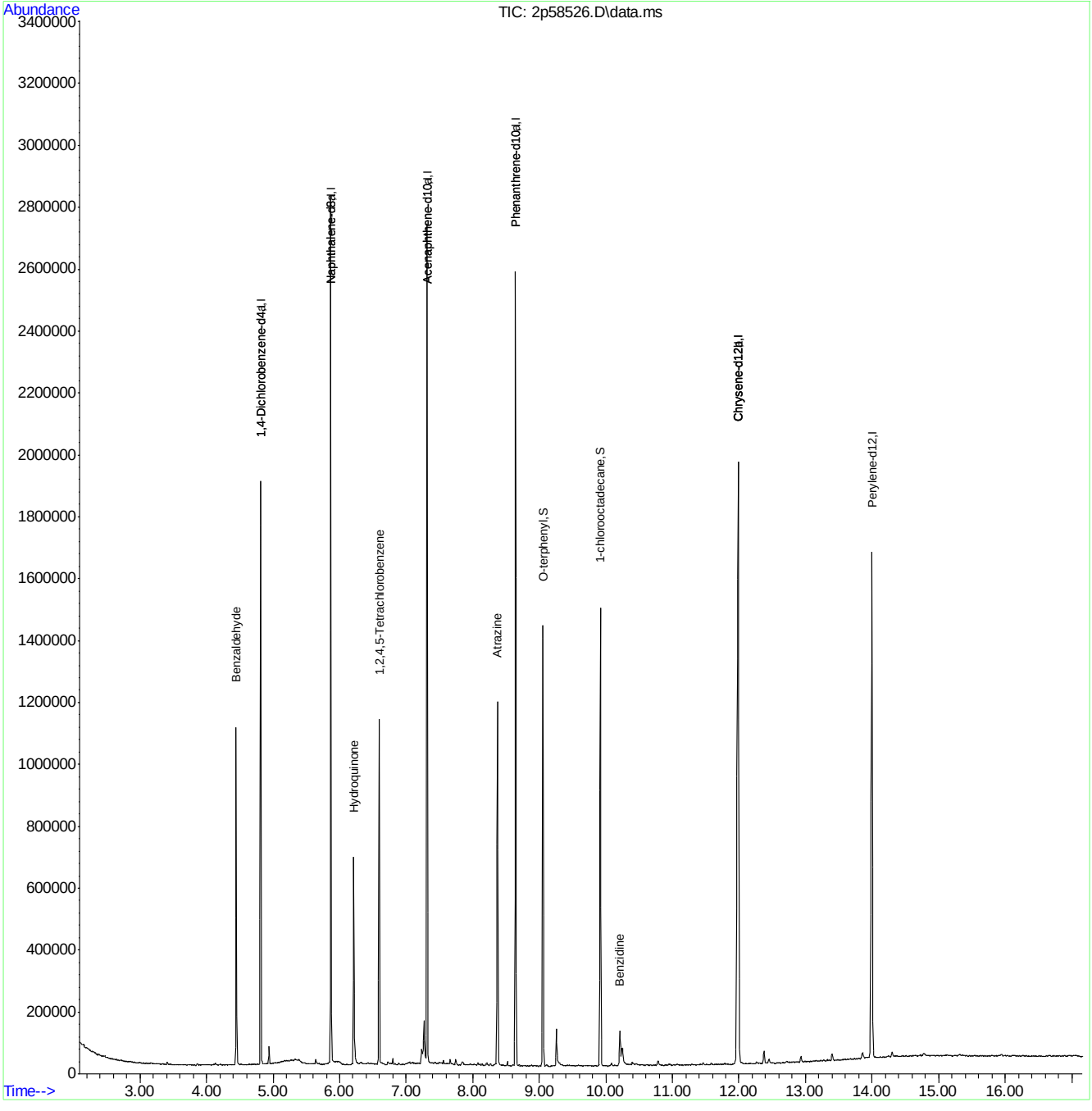
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2557\
Data File : 2p58526.D
Acq On : 25 Apr 2016 10:45 am
Operator : robertl1
Sample : IC2557-25
Misc : op92038,e2p2557
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 25 15:46:04 2016
Quant Method : C:\msdchem\1\METHODS\M2P2557eph.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Apr 20 08:45:45 2016
Response via : Initial Calibration



M2P2557eph.M Mon Apr 25 15:46:28 2016 RPT1 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2557\
Data File : 2p58527.D
Acq On : 25 Apr 2016 11:08 am
Operator : robertl1
Sample : IC2557-80
Misc : op92038,e2p2557
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 25 15:46:55 2016
Quant Method : C:\msdchem\1\METHODS\M2P2557eph.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Apr 20 08:45:45 2016
Response via : Initial Calibration

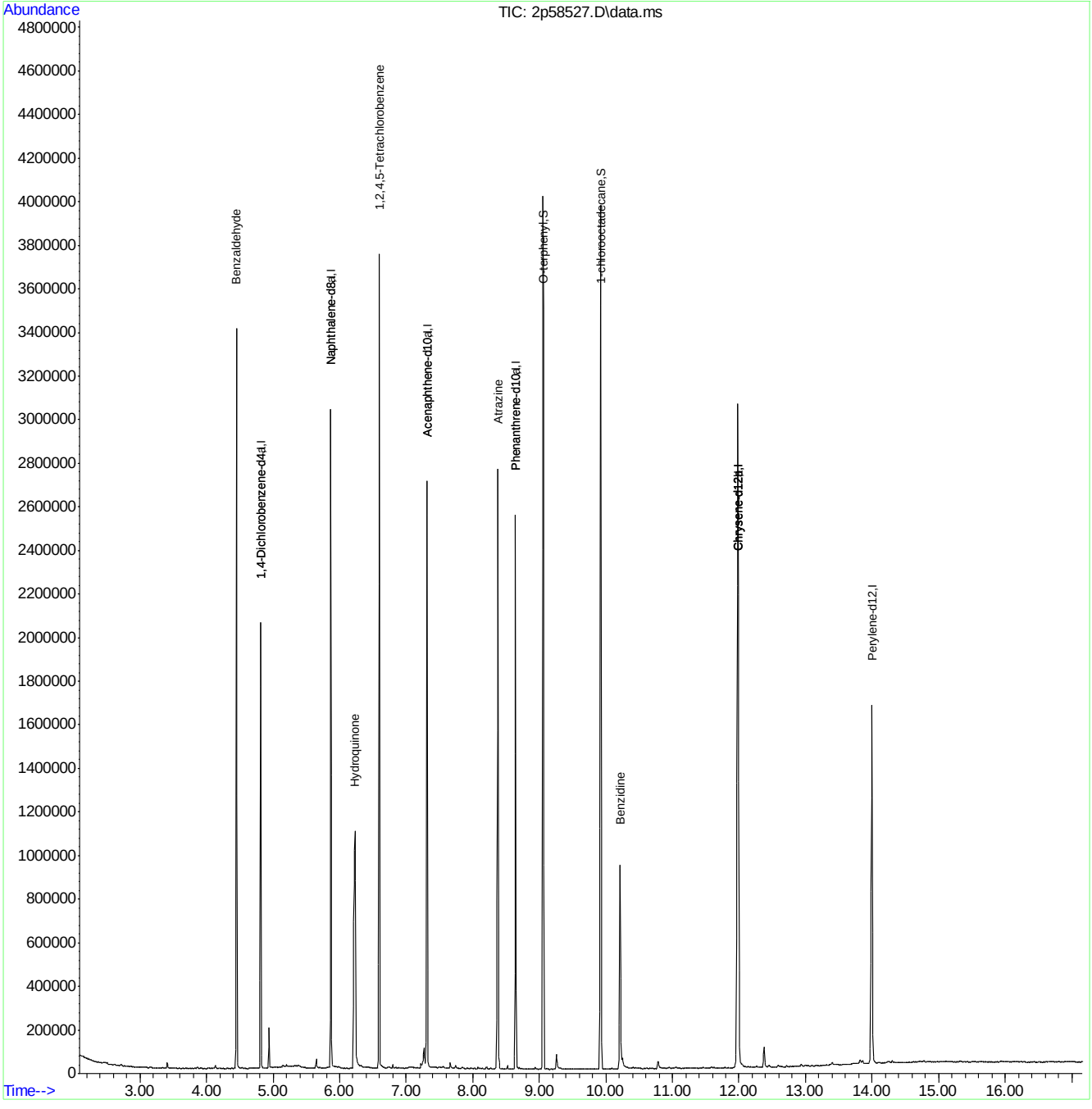
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.815	152	252460	40.00	ppm	-0.10
24) Naphthalene-d8	5.868	136	949507	40.00	ppm	-0.10
47) Acenaphthene-d10	7.312	164	527324	40.00	ppm	-0.10
69) Phenanthrene-d10	8.644	188	830458	40.00	ppm	-0.12
83) Chrysene-d12	11.993	240	781207	40.00	ppm	-0.14
92) Perylene-d12	13.998	264	708124	40.00	ppm	-0.15
102) 1,4-Dichlorobenzene-d4a	4.815	152	252460	40.00	ppm	-0.10
104) Naphthalene-d8a	5.868	136	949507	40.00	ppm	-0.10
106) Acenaphthene-d10a	7.312	164	527324	40.00	ppm	-0.10
109) Chrysene-d12a	11.993	240	781207	40.00	ppm	-0.14
111) Phenanthrene-d10a	8.644	188	830458	40.00	ppm	-0.12
114) Chrysene-d12b	11.993	240	781207	40.00	ppm	-0.14
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0d	0.00	ppm	
Spiked Amount 50.000	Range 11 - 58		Recovery	=	0.00%#	
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000	Range 10 - 59		Recovery	=	0.00%#	
25) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000	Range 19 - 61		Recovery	=	0.00%#	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000	Range 21 - 58		Recovery	=	0.00%#	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000	Range 12 - 68		Recovery	=	0.00%#	
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000	Range 16 - 65		Recovery	=	0.00%#	
112) 1-chlorooctadecane	9.923	57	689685	71.87	ppm	-0.13
113) O-terphenyl	9.056	230	794047	73.89	ppm	-0.13
Target Compounds						Qvalue
103) Benzaldehyde	4.451	105	500263	69.50	ppm	97
105) Hydroquinone	6.232	110	677143	87.54	ppm	94
107) Atrazine	8.382	215	155796	71.67	ppm	92
108) 1,2,4,5-Tetrachloroben...	6.596	216	505495	64.65	ppm	99
110) Benzidine	10.217	184	435667	44.43	ppm	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2557\
Data File : 2p58527.D
Acq On : 25 Apr 2016 11:08 am
Operator : robertl1
Sample : IC2557-80
Misc : op92038,e2p2557
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 25 15:46:55 2016
Quant Method : C:\msdchem\1\METHODS\M2P2557eph.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Apr 20 08:45:45 2016
Response via : Initial Calibration



SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2557\
Data File : 2p58528.D
Acq On : 25 Apr 2016 11:31 am
Operator : robertl1
Sample : IC2557-10
Misc : op92038,e2p2557
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 25 15:47:39 2016
Quant Method : C:\msdchem\1\METHODS\M2P2557eph.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Apr 20 08:45:45 2016
Response via : Initial Calibration

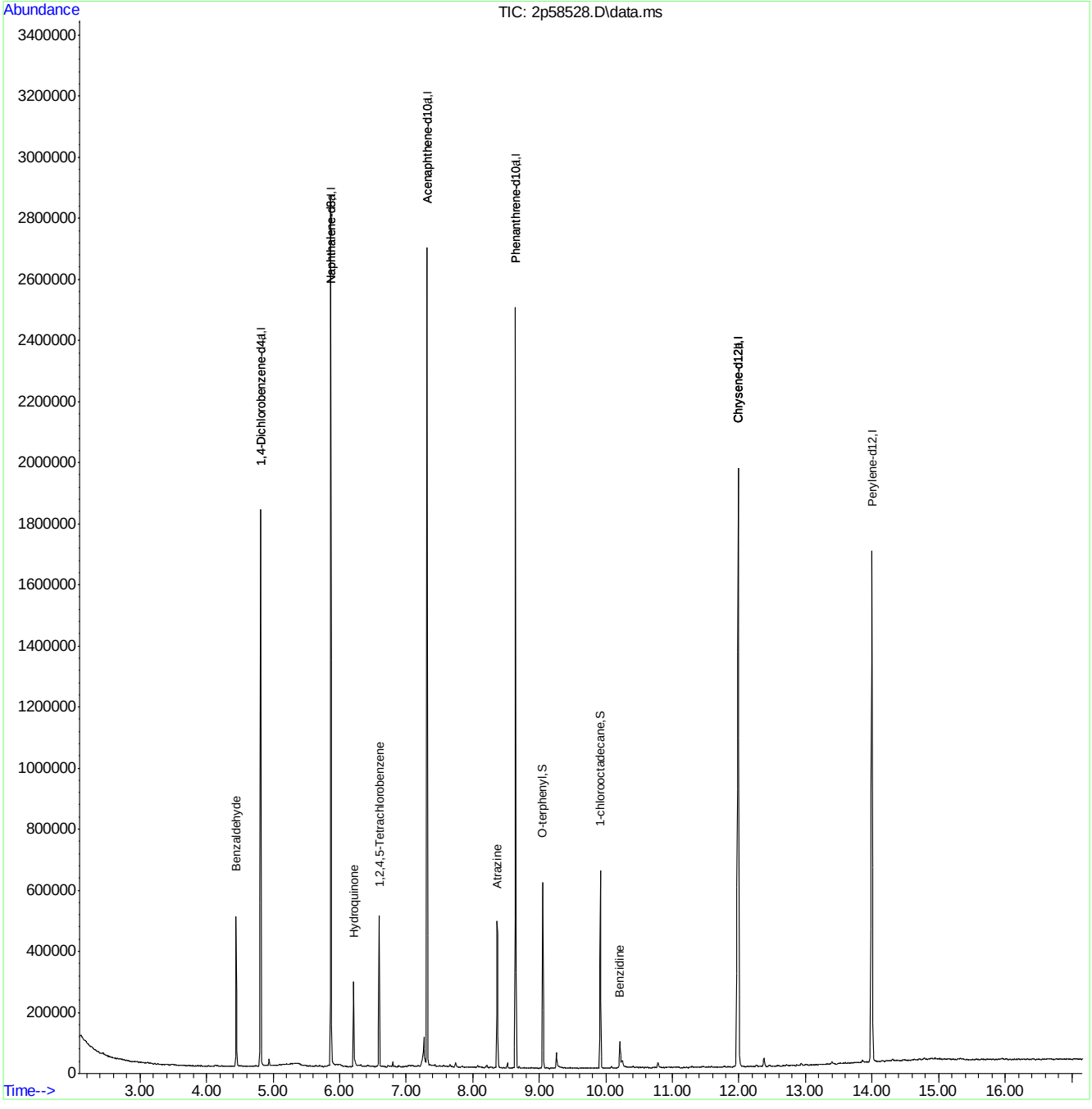
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.815	152	246164	40.00	ppm	-0.10
24) Naphthalene-d8	5.868	136	909359	40.00	ppm	-0.10
47) Acenaphthene-d10	7.312	164	511817	40.00	ppm	-0.10
69) Phenanthrene-d10	8.644	188	826682	40.00	ppm	-0.12
83) Chrysene-d12	11.992	240	829497	40.00	ppm	-0.14
92) Perylene-d12	13.998	264	726302	40.00	ppm	-0.15
102) 1,4-Dichlorobenzene-d4a	4.815	152	246164	40.00	ppm	-0.10
104) Naphthalene-d8a	5.868	136	909359	40.00	ppm	-0.10
106) Acenaphthene-d10a	7.312	164	511817	40.00	ppm	-0.10
109) Chrysene-d12a	11.992	240	829497	40.00	ppm	-0.14
111) Phenanthrene-d10a	8.644	188	826682	40.00	ppm	-0.12
114) Chrysene-d12b	11.992	240	829497	40.00	ppm	-0.14
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000	Range 11 - 58		Recovery = 0.00%#			
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000	Range 10 - 59		Recovery = 0.00%#			
25) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000	Range 19 - 61		Recovery = 0.00%#			
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000	Range 21 - 58		Recovery = 0.00%#			
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000	Range 12 - 68		Recovery = 0.00%#			
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000	Range 16 - 65		Recovery = 0.00%#			
112) 1-chlorooctadecane	9.917	57	103576	10.84	ppm	-0.14
113) O-terphenyl	9.051	230	111751	10.45	ppm	-0.13
Target Compounds						Qvalue
103) Benzaldehyde	4.446	105	66690	9.50	ppm	94
105) Hydroquinone	6.211	110	86668	11.70	ppm	98
107) Atrazine	8.371	215	21398	10.14	ppm	92
108) 1,2,4,5-Tetrachloroben...	6.596	216	70041	9.23	ppm	98
110) Benzidine	10.211	184	46539	4.47	ppm	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2557\
Data File : 2p58528.D
Acq On : 25 Apr 2016 11:31 am
Operator : robertl1
Sample : IC2557-10
Misc : op92038,e2p2557
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 25 15:47:39 2016
Quant Method : C:\msdchem\1\METHODS\M2P2557eph.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Apr 20 08:45:45 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2557\
Data File : 2p58529.D
Acq On : 25 Apr 2016 11:54 am
Operator : robertl1
Sample : IC2557-100
Misc : op92038,e2p2557
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 25 15:48:23 2016
Quant Method : C:\msdchem\1\METHODS\M2P2557eph.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Apr 20 08:45:45 2016
Response via : Initial Calibration

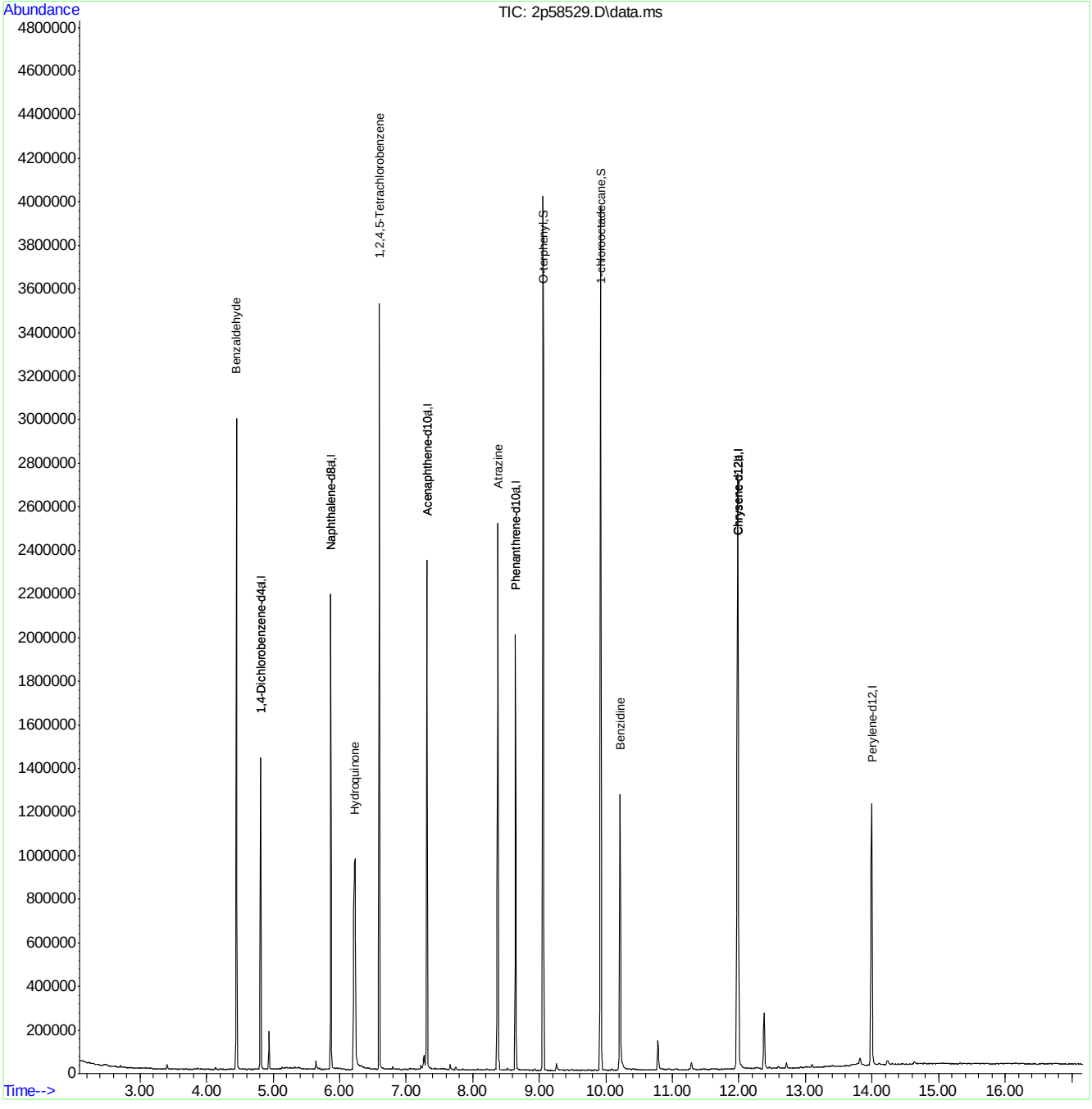
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.815	152	191917	40.00	ppm	-0.10
24) Naphthalene-d8	5.868	136	708560	40.00	ppm	-0.10
47) Acenaphthene-d10	7.312	164	408665	40.00	ppm	-0.10
69) Phenanthrene-d10	8.644	188	643957	40.00	ppm	-0.12
83) Chrysene-d12	11.987	240	622500	40.00	ppm	-0.15
92) Perylene-d12	13.998	264	541475	40.00	ppm	-0.15
102) 1,4-Dichlorobenzene-d4a	4.815	152	191917	40.00	ppm	-0.10
104) Naphthalene-d8a	5.868	136	708560	40.00	ppm	-0.10
106) Acenaphthene-d10a	7.312	164	408665	40.00	ppm	-0.10
109) Chrysene-d12a	11.987	240	622500	40.00	ppm	-0.15
111) Phenanthrene-d10a	8.644	188	643957	40.00	ppm	-0.12
114) Chrysene-d12b	11.987	240	622500	40.00	ppm	-0.15
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000	Range 11 - 58		Recovery	=	0.00%#	
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000	Range 10 - 59		Recovery	=	0.00%#	
25) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000	Range 19 - 61		Recovery	=	0.00%#	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000	Range 21 - 58		Recovery	=	0.00%#	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000	Range 12 - 68		Recovery	=	0.00%#	
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000	Range 16 - 65		Recovery	=	0.00%#	
112) 1-chlorooctadecane	9.923	57	664269	89.26	ppm	-0.13
113) O-terphenyl	9.056	230	761229	91.35	ppm	-0.13
Target Compounds						Qvalue
103) Benzaldehyde	4.451	105	464616	84.91	ppm	97
105) Hydroquinone	6.232	110	657268	113.86	ppm	96
107) Atrazine	8.382	215	152040	90.25	ppm	92
108) 1,2,4,5-Tetrachloroben...	6.596	216	484135	79.90	ppm	98
110) Benzidine	10.217	184	559965	71.66	ppm	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2557\
Data File : 2p58529.D
Acq On : 25 Apr 2016 11:54 am
Operator : robertl1
Sample : IC2557-100
Misc : op92038,e2p2557
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 25 15:48:23 2016
Quant Method : C:\msdchem\1\METHODS\M2P2557eph.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Apr 20 08:45:45 2016
Response via : Initial Calibration



SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2557\
Data File : 2p58530.D
Acq On : 25 Apr 2016 12:17 pm
Operator : robertl1
Sample : IC2557-5
Misc : op92038,e2p2557
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 25 15:49:14 2016
Quant Method : C:\msdchem\1\METHODS\M2P2557eph.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Apr 20 08:45:45 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.815	152	254002	40.00	ppm	-0.10
24) Naphthalene-d8	5.868	136	954242	40.00	ppm	-0.10
47) Acenaphthene-d10	7.318	164	554588	40.00	ppm	-0.10
69) Phenanthrene-d10	8.644	188	883977	40.00	ppm	-0.12
83) Chrysene-d12	11.992	240	869272	40.00	ppm	-0.14
92) Perylene-d12	13.998	264	753491	40.00	ppm	-0.15
102) 1,4-Dichlorobenzene-d4a	4.815	152	254002	40.00	ppm	-0.10
104) Naphthalene-d8a	5.868	136	954242	40.00	ppm	-0.10
106) Acenaphthene-d10a	7.318	164	554588	40.00	ppm	-0.10
109) Chrysene-d12a	11.992	240	869272	40.00	ppm	-0.14
111) Phenanthrene-d10a	8.644	188	883977	40.00	ppm	-0.12
114) Chrysene-d12b	11.992	240	869272	40.00	ppm	-0.14
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000	Range 11 - 58		Recovery = 0.00%#			
8) Phenol-d5	0.000	99	0d	0.00	ppm	
Spiked Amount 50.000	Range 10 - 59		Recovery = 0.00%#			
25) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000	Range 19 - 61		Recovery = 0.00%#			
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000	Range 21 - 58		Recovery = 0.00%#			
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000	Range 12 - 68		Recovery = 0.00%#			
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000	Range 16 - 65		Recovery = 0.00%#			
112) 1-chlorooctadecane	9.917	57	50915	4.98	ppm	-0.14
113) O-terphenyl	9.051	230	55642	4.86	ppm	-0.13
Target Compounds						Qvalue
103) Benzaldehyde	4.445	105	33074	4.57	ppm	94
105) Hydroquinone	6.210	110	41514	5.34	ppm	97
107) Atrazine	8.366	215	10872	4.76	ppm	93
108) 1,2,4,5-Tetrachloroben...	6.596	216	34377	4.18	ppm	98
110) Benzidine	10.211	184	28927	2.65	ppm	97

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

7.6.20

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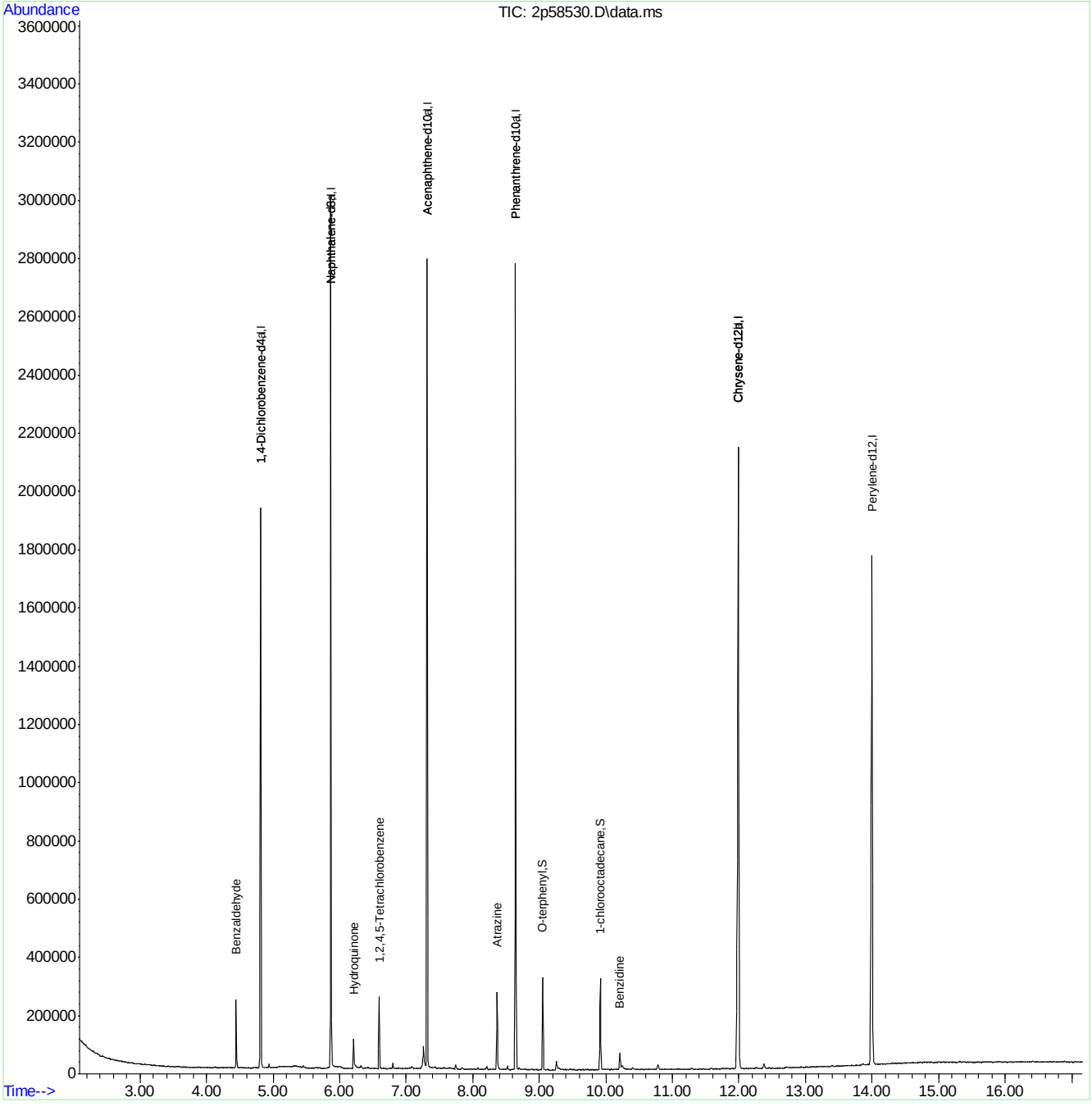
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2557\
Data File : 2p58530.D
Acq On : 25 Apr 2016 12:17 pm
Operator : robertl1
Sample : IC2557-5
Misc : op92038,e2p2557
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 25 15:49:14 2016
Quant Method : C:\msdchem\1\METHODS\M2P2557eph.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Apr 20 08:45:45 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2557\
Data File : 2p58531.D
Acq On : 25 Apr 2016 12:41 pm
Operator : robertl1
Sample : IC2557-1
Misc : op92038,e2p2557
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 25 15:49:59 2016
Quant Method : C:\msdchem\1\METHODS\M2P2557eph.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Apr 20 08:45:45 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.809	152	207448	40.00	ppm	-0.10
24) Naphthalene-d8	5.868	136	782304	40.00	ppm	-0.10
47) Acenaphthene-d10	7.312	164	444439	40.00	ppm	-0.10
69) Phenanthrene-d10	8.644	188	716156	40.00	ppm	-0.12
83) Chrysene-d12	11.987	240	690049	40.00	ppm	-0.15
92) Perylene-d12	13.998	264	599447	40.00	ppm	-0.15
102) 1,4-Dichlorobenzene-d4a	4.809	152	207448	40.00	ppm	-0.10
104) Naphthalene-d8a	5.868	136	782304	40.00	ppm	-0.10
106) Acenaphthene-d10a	7.312	164	444439	40.00	ppm	-0.10
109) Chrysene-d12a	11.987	240	690049	40.00	ppm	-0.15
111) Phenanthrene-d10a	8.644	188	716156	40.00	ppm	-0.12
114) Chrysene-d12b	11.987	240	690049	40.00	ppm	-0.15
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000	Range 11 - 58		Recovery = 0.00%#			
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000	Range 10 - 59		Recovery = 0.00%#			
25) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000	Range 19 - 61		Recovery = 0.00%#			
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000	Range 21 - 58		Recovery = 0.00%#			
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000	Range 12 - 68		Recovery = 0.00%#			
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000	Range 16 - 65		Recovery = 0.00%#			
112) 1-chlorooctadecane	9.917	57	8255	1.00	ppm	-0.14
113) O-terphenyl	9.051	230	8883	0.96	ppm	-0.13
Target Compounds						Qvalue
103) Benzaldehyde	4.446	105	5722	0.97	ppm	93
105) Hydroquinone	6.216	110	6908	1.08	ppm #	91
107) Atrazine	8.366	215	1610	0.88	ppm	89
108) 1,2,4,5-Tetrachloroben...	6.590	216	5454	0.83	ppm	86
110) Benzidine	10.217	184	2604	0.30	ppm	85

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

7.6.21

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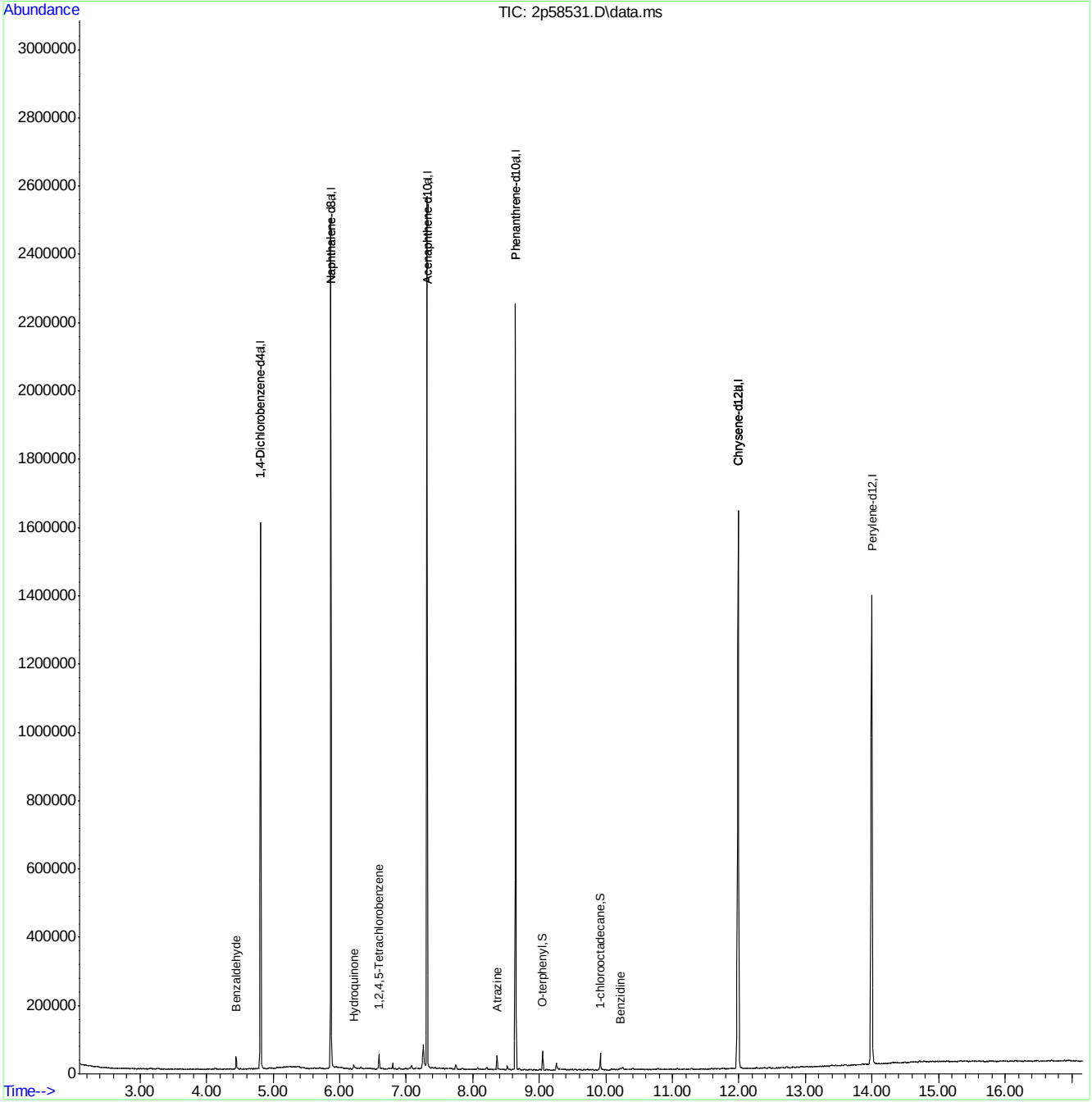
SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2557\
Data File : 2p58531.D
Acq On : 25 Apr 2016 12:41 pm
Operator : robertl1
Sample : IC2557-1
Misc : op92038,e2p2557
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 25 15:49:59 2016
Quant Method : C:\msdchem\1\METHODS\M2P2557eph.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Apr 20 08:45:45 2016
Response via : Initial Calibration



M2P2557eph.M Mon Apr 25 15:50:17 2016 RPT1 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2557\
Data File : 2p58532.D
Acq On : 25 Apr 2016 1:04 pm
Operator : robertl1
Sample : IC2557-2
Misc : op92038,e2p2557
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 25 15:50:44 2016
Quant Method : C:\msdchem\1\METHODS\M2P2557eph.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Apr 20 08:45:45 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.815	152	245343	40.00	ppm	-0.10
24) Naphthalene-d8	5.868	136	913963	40.00	ppm	-0.10
47) Acenaphthene-d10	7.318	164	534908	40.00	ppm	-0.10
69) Phenanthrene-d10	8.644	188	853336	40.00	ppm	-0.12
83) Chrysene-d12	11.993	240	840984	40.00	ppm	-0.14
92) Perylene-d12	13.998	264	737999	40.00	ppm	-0.15
102) 1,4-Dichlorobenzene-d4a	4.815	152	245343	40.00	ppm	-0.10
104) Naphthalene-d8a	5.868	136	913963	40.00	ppm	-0.10
106) Acenaphthene-d10a	7.318	164	534908	40.00	ppm	-0.10
109) Chrysene-d12a	11.993	240	840984	40.00	ppm	-0.14
111) Phenanthrene-d10a	8.644	188	853336	40.00	ppm	-0.12
114) Chrysene-d12b	11.993	240	840984	40.00	ppm	-0.14
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000	Range 11 - 58		Recovery	=	0.00%#	
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000	Range 10 - 59		Recovery	=	0.00%#	
25) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000	Range 19 - 61		Recovery	=	0.00%#	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000	Range 21 - 58		Recovery	=	0.00%#	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000	Range 12 - 68		Recovery	=	0.00%#	
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000	Range 16 - 65		Recovery	=	0.00%#	
112) 1-chlorooctadecane	9.917	57	19896	2.02	ppm	-0.14
113) O-terphenyl	9.051	230	21360	1.93	ppm	-0.13
Target Compounds						Qvalue
103) Benzaldehyde	4.446	105	13122	1.88	ppm	98
105) Hydroquinone	6.211	110	15637	2.10	ppm	96
107) Atrazine	8.366	215	4113	1.87	ppm	95
108) 1,2,4,5-Tetrachloroben...	6.590	216	13205	1.66	ppm	95
110) Benzidine	10.211	184	11902	1.13	ppm	97

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

7.6.22

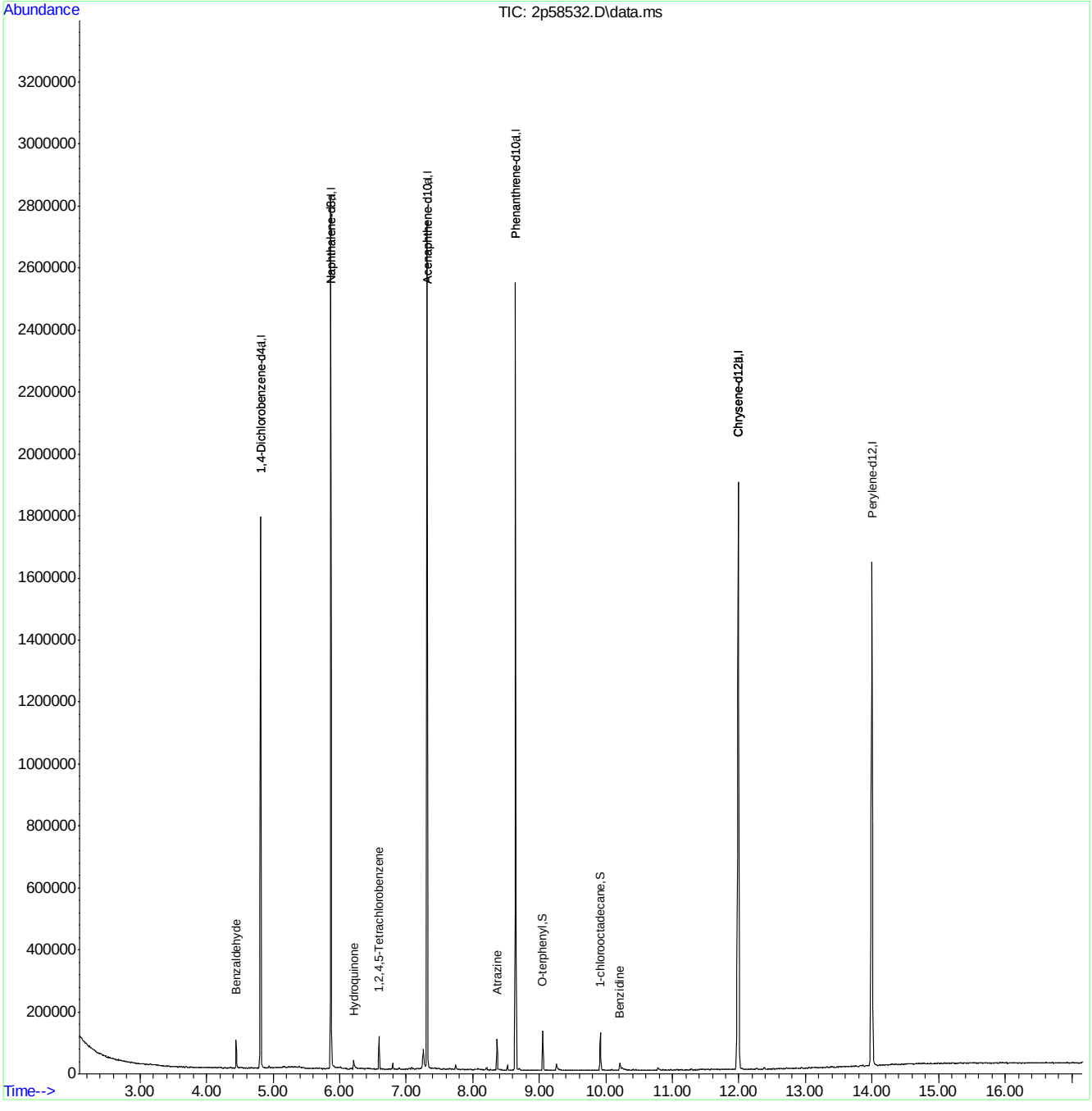
7

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2557\
Data File : 2p58532.D
Acq On : 25 Apr 2016 1:04 pm
Operator : robertl1
Sample : IC2557-2
Misc : op92038,e2p2557
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 25 15:50:44 2016
Quant Method : C:\msdchem\1\METHODS\M2P2557eph.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Apr 20 08:45:45 2016
Response via : Initial Calibration



SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2557\
Data File : 2p58534.D
Acq On : 25 Apr 2016 1:51 pm
Operator : robertl1
Sample : ICV2557-50
Misc : op92038,e2p2557
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 25 17:51:01 2016
Quant Method : C:\msdchem\1\METHODS\M2P2557eph.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Apr 25 15:59:04 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.809	152	215273	40.00	ppm	-0.10
24) Naphthalene-d8	5.868	136	771421	40.00	ppm	-0.10
47) Acenaphthene-d10	7.312	164	425062	40.00	ppm	-0.10
69) Phenanthrene-d10	8.644	188	676522	40.00	ppm	-0.12
83) Chrysene-d12	11.987	240	663177	40.00	ppm	-0.15
92) Perylene-d12	13.998	264	578454	40.00	ppm	-0.15
102) 1,4-Dichlorobenzene-d4a	4.809	152	215273	40.00	ppm	-0.10
104) Naphthalene-d8a	5.868	136	771421	40.00	ppm	-0.10
106) Acenaphthene-d10a	7.312	164	425062	40.00	ppm	-0.10
109) Chrysene-d12a	11.987	240	663177	40.00	ppm	-0.15
111) Phenanthrene-d10a	8.644	188	676522	40.00	ppm	-0.12
114) Chrysene-d12b	11.987	240	663177	40.00	ppm	-0.15
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000	Range 11 - 58		Recovery = 0.00%#			
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000	Range 10 - 59		Recovery = 0.00%#			
25) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000	Range 19 - 61		Recovery = 0.00%#			
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000	Range 21 - 58		Recovery = 0.00%#			
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000	Range 12 - 68		Recovery = 0.00%#			
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000	Range 16 - 65		Recovery = 0.00%#			
112) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
113) O-terphenyl	0.000	230	0	0.00	ppm	
Target Compounds						Qvalue
105) Hydroquinone	6.211	110	359765	51.36	ppm	96

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

7.6.23

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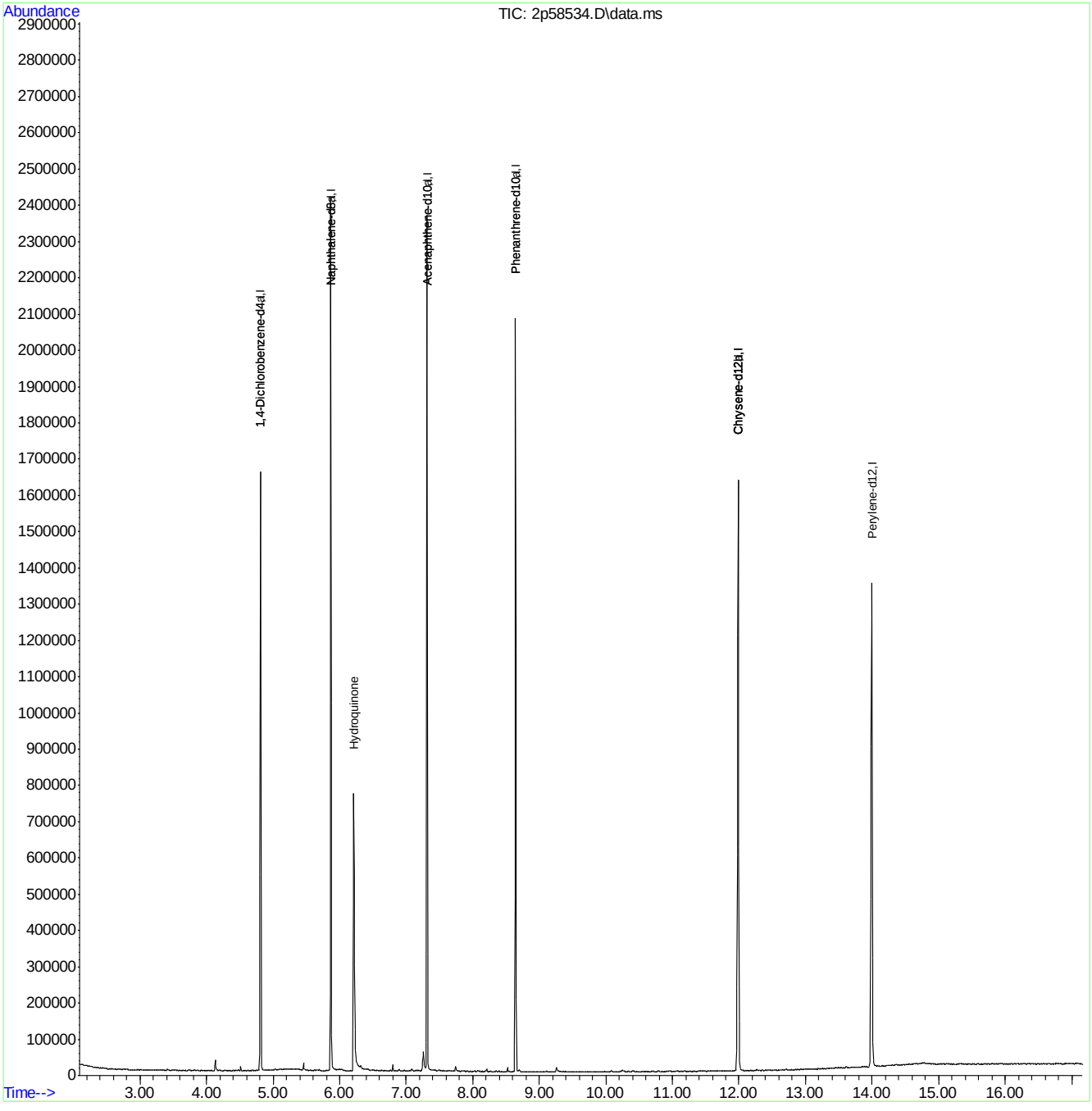
SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2557\
Data File : 2p58534.D
Acq On : 25 Apr 2016 1:51 pm
Operator : robertl1
Sample : ICV2557-50
Misc : op92038,e2p2557
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 25 17:51:01 2016
Quant Method : C:\msdchem\1\METHODS\M2P2557eph.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Apr 25 15:59:04 2016
Response via : Initial Calibration



SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2557\
Data File : 2p58536a.D
Acq On : 25 Apr 2016 4:09 pm
Operator : robertl1
Sample : ICV2557-50
Misc : op92038,e2p2557
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 25 17:53:37 2016
Quant Method : C:\msdchem\1\METHODS\M2P2557eph.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Apr 25 15:59:04 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.815	152	216946	40.00	ppm	-0.10
24) Naphthalene-d8	5.868	136	756094	40.00	ppm	-0.10
47) Acenaphthene-d10	7.312	164	385077	40.00	ppm	-0.10
69) Phenanthrene-d10	8.644	188	583306	40.00	ppm	-0.12
83) Chrysene-d12	11.987	240	574184	40.00	ppm	-0.15
92) Perylene-d12	13.998	264	467015	40.00	ppm	-0.15
102) 1,4-Dichlorobenzene-d4a	4.815	152	216946	40.00	ppm	-0.10
104) Naphthalene-d8a	5.868	136	756094	40.00	ppm	-0.10
106) Acenaphthene-d10a	7.312	164	385077	40.00	ppm	-0.10
109) Chrysene-d12a	11.987	240	574184	40.00	ppm	-0.15
111) Phenanthrene-d10a	8.644	188	583306	40.00	ppm	-0.12
114) Chrysene-d12b	11.987	240	574184	40.00	ppm	-0.15
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000	Range 11 - 58		Recovery = 0.00%#			
8) Phenol-d5	0.000	99	0d	0.00	ppm	
Spiked Amount 50.000	Range 10 - 59		Recovery = 0.00%#			
25) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000	Range 19 - 61		Recovery = 0.00%#			
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000	Range 21 - 58		Recovery = 0.00%#			
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000	Range 12 - 68		Recovery = 0.00%#			
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000	Range 16 - 65		Recovery = 0.00%#			
112) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
113) O-terphenyl	0.000	230	0	0.00	ppm	
Target Compounds						Qvalue
103) Benzaldehyde	4.445	105	300760	53.17	ppm	96
107) Atrazine	8.377	215	80774	54.43	ppm	94

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

7.6.24

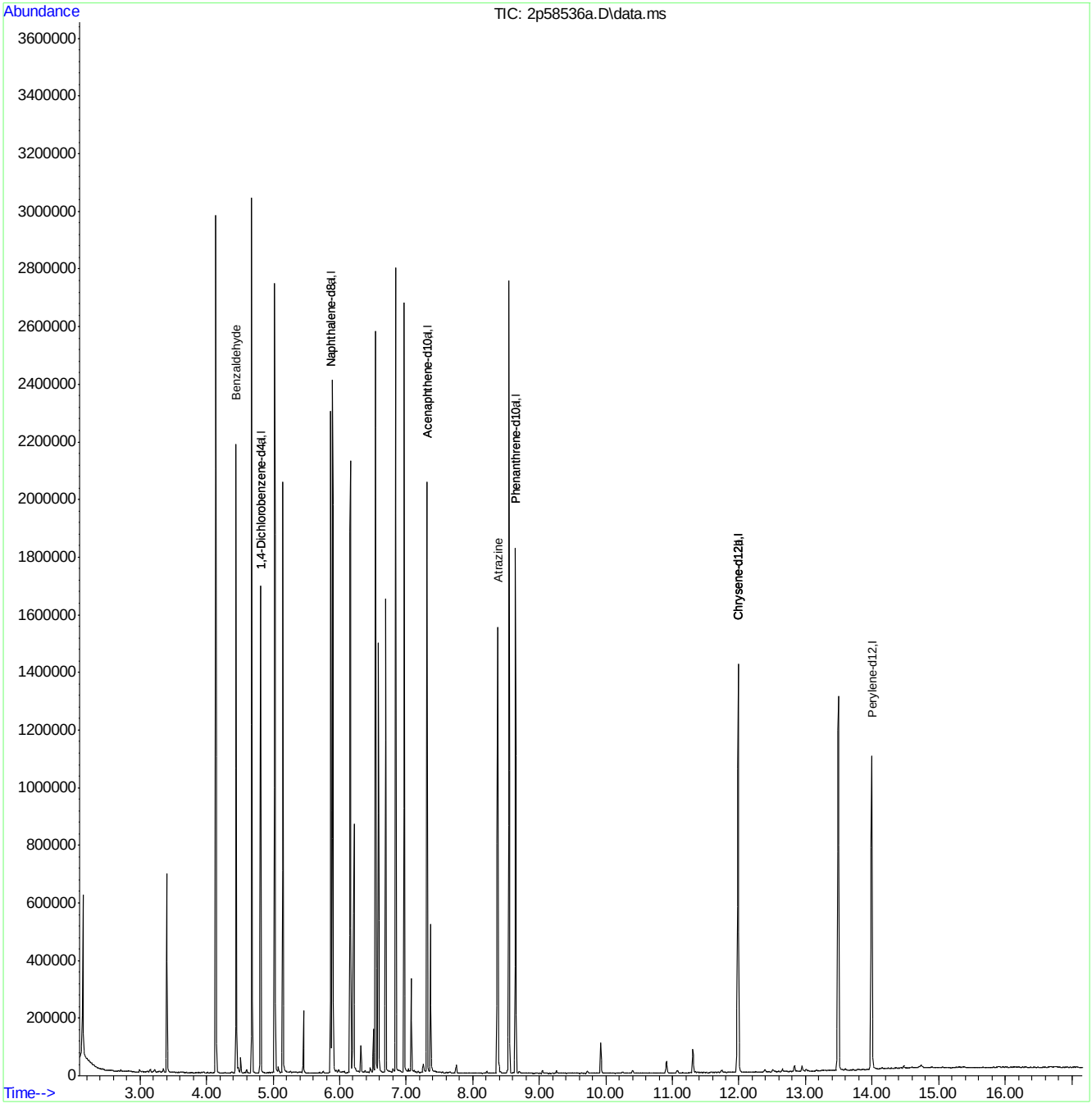
7

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2557\
Data File : 2p58536a.D
Acq On : 25 Apr 2016 4:09 pm
Operator : robertl1
Sample : ICV2557-50
Misc : op92038,e2p2557
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 25 17:53:37 2016
Quant Method : C:\msdchem\1\METHODS\M2P2557eph.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Apr 25 15:59:04 2016
Response via : Initial Calibration



M2P2557eph.M Mon Apr 25 17:53:51 2016 RPT1 Page: 2

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2559\
Data File : 2p58540.D
Acq On : 25 Apr 2016 6:59 pm
Operator : ashleyn
Sample : icv2557-50
Misc : op92038,e2p2559
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 25 19:21:37 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2557EPH.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Apr 25 15:59:04 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.804	152	203729	40.00	ppm	-0.11
24) Naphthalene-d8	5.858	136	658786	40.00	ppm	-0.11
47) Acenaphthene-d10	7.307	164	348719	40.00	ppm	-0.11
69) Phenanthrene-d10	8.634	188	551441	40.00	ppm	-0.13
83) Chrysene-d12	11.977	240	521504	40.00	ppm	-0.16
92) Perylene-d12	13.977	264	456321	40.00	ppm	-0.17
102) 1,4-Dichlorobenzene-d4a	4.804	152	203729	40.00	ppm	-0.11
104) Naphthalene-d8a	5.858	136	658786	40.00	ppm	-0.11
106) Acenaphthene-d10a	7.307	164	348719	40.00	ppm	-0.11
109) Chrysene-d12a	11.977	240	521504	40.00	ppm	-0.16
111) Phenanthrene-d10a	8.634	188	551441	40.00	ppm	-0.13
114) Chrysene-d12b	11.977	240	521504	40.00	ppm	-0.16
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0d	0.00	ppm	
Spiked Amount 50.000	Range 11 - 58		Recovery = 0.00%#			
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000	Range 10 - 59		Recovery = 0.00%#			
25) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000	Range 19 - 61		Recovery = 0.00%#			
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000	Range 21 - 58		Recovery = 0.00%#			
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000	Range 12 - 68		Recovery = 0.00%#			
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000	Range 16 - 65		Recovery = 0.00%#			
112) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
113) O-terphenyl	0.000	230	0	0.00	ppm	
Target Compounds						Qvalue
108) 1,2,4,5-Tetrachloroben...	6.585	216	262205	60.52	ppm	97
110) Benzidine	10.201	184	549626	191.46	ppm	98

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

7.6.25

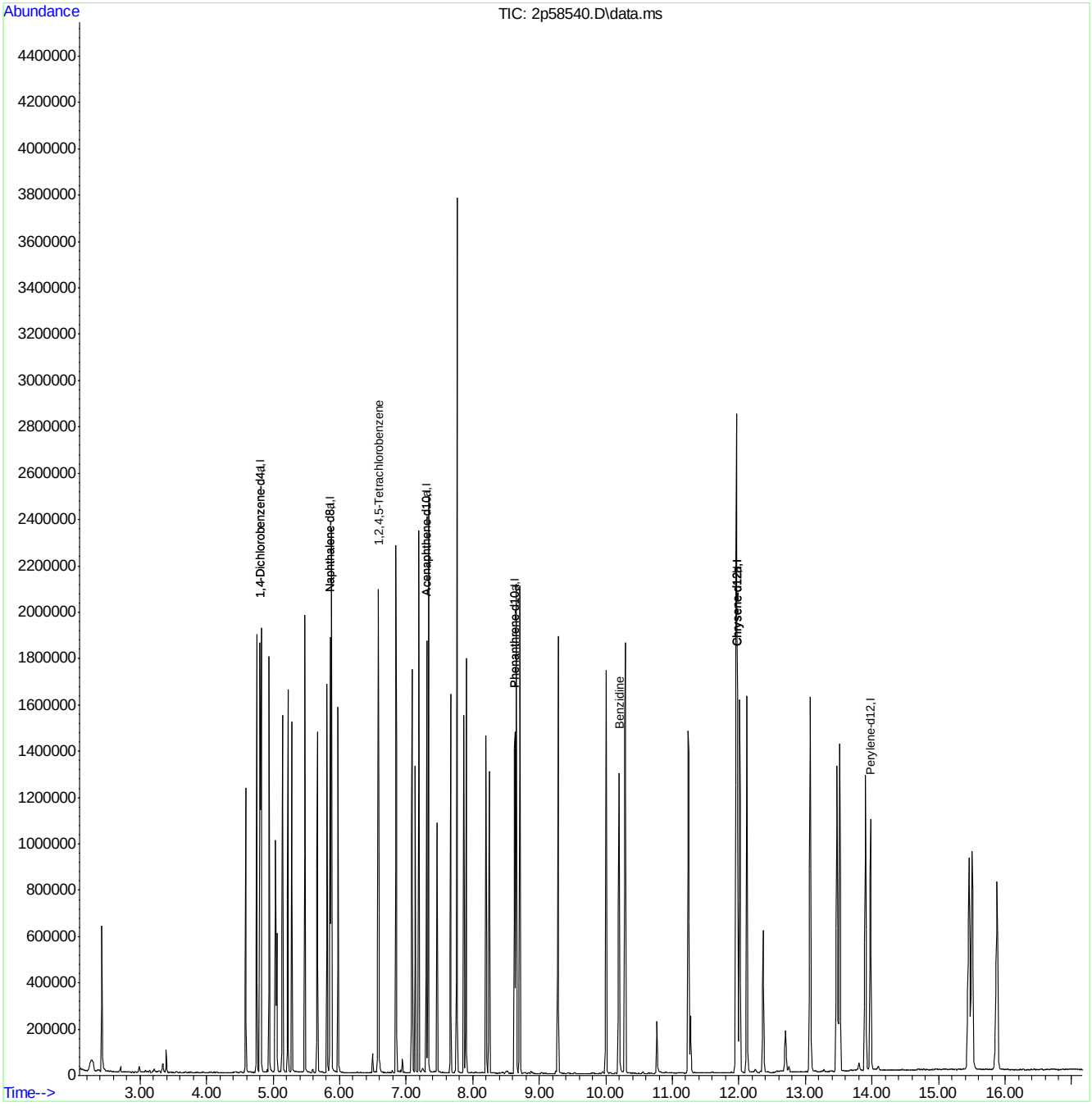
7

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2559\
Data File : 2p58540.D
Acq On : 25 Apr 2016 6:59 pm
Operator : ashleyn
Sample : icv2557-50
Misc : op92038,e2p2559
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 25 19:21:37 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2557EPH.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Apr 25 15:59:04 2016
Response via : Initial Calibration



M2P2557EPH.M Mon Apr 25 19:21:43 2016 RPT1 Page: 2

Manual Integrations APPROVED (compounds with "m" flag)
Kristi Schollenberger 05/25/16 11:21

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2594\
Data File : 2p59401A.D
Acq On : 20 May 2016 7:37 pm
Operator : seanb1
Sample : cc2547-25
Misc : op94078,e2p2594
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 23 12:31:15 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2557.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon May 23 12:20:18 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.764	152	224356	40.00	ppm	0.00
24) Naphthalene-d8	5.823	136	753025	40.00	ppm	0.00
47) Acenaphthene-d10	7.267	164	464634	40.00	ppm	0.00
69) Phenanthrene-d10	8.588	188	827359	40.00	ppm	0.00
83) Chrysene-d12	11.936	240	910470	40.00	ppm	0.00
92) Perylene-d12	13.948	264	765744	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.764	152	224356	40.00	ppm	0.00
104) Naphthalene-d8a	5.823	136	753025	40.00	ppm	0.00
106) Acenaphthene-d10a	7.267	164	464634	40.00	ppm	0.00
109) Chrysene-d12a	11.936	240	910470	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.705	112	180494	19.86	ppm	0.03
Spiked Amount 50.000	Range 11 - 58		Recovery = 39.72%			
8) Phenol-d5	4.518	99	217197	20.40	ppm	0.00
Spiked Amount 50.000	Range 10 - 59		Recovery = 40.80%			
25) Nitrobenzene-d5	5.235	82	231277	31.15	ppm	0.05
Spiked Amount 50.000	Range 19 - 61		Recovery = 62.30%#			
51) 2-Fluorobiphenyl	6.711	172	352592	24.39	ppm	-0.01
Spiked Amount 50.000	Range 21 - 58		Recovery = 48.78%			
73) 2,4,6-Tribromophenol	7.936	330	49340	26.86	ppm	0.00
Spiked Amount 50.000	Range 12 - 68		Recovery = 53.72%			
85) Terphenyl-d14	10.471	244	439366	23.97	ppm	0.07
Spiked Amount 50.000	Range 16 - 65		Recovery = 47.94%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.079	88	75157	18.23	ppm #	54
3) Pyridine	2.416	79	176116	17.27	ppm #	64
4) N-Nitrosodimethylamine	2.400	74	97037	16.10	ppm #	66
6) Indene	4.978	116	289409	22.97	ppm	96
7) Cumene	4.085	105	507856	25.53	ppm	93
9) Phenol	4.529	94	234028	20.74	ppm	88
10) Aniline	4.497	93	233811	18.04	ppm	81
11) bis(2-Chloroethyl)ether	4.555	93	170076	21.38	ppm	91
12) 2-Chlorophenol	4.609	128	174252	21.17	ppm	98
13) Decane	4.625	57	207279	16.90	ppm	82
14) 1,3-Dichlorobenzene	4.716	146	201691	22.30	ppm	96
15) 1,4-Dichlorobenzene	4.780	146	202529	22.75	ppm	96
16) Benzyl alcohol	4.898	108	108805	21.10	ppm #	47
17) 1,2-Dichlorobenzene	4.903	146	189617	23.04	ppm	95
18) Acetophenone	5.106	105	259899	25.71	ppm	95
19) 2-Methylphenol	5.015	108	148372	21.00	ppm	97
20) 2,2'-oxybis(1-Chloropr...	4.999	121	55483	23.93	ppm #	1
21) 3&4-Methylphenol	5.144	108	159916	21.69	ppm	98
22) n-Nitroso-di-n-propyla...	5.112	70	142789	26.59	ppm #	67
23) Hexachloroethane	5.176	201	78241	28.95	ppm	81
26) Nitrobenzene	5.245	77	229582	30.64	ppm	79
27) Quinoline	6.117	129	294912	22.09	ppm	90
28) Isophorone	5.443	82	358510	26.72	ppm	82

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2594\
Data File : 2p59401A.D
Acq On : 20 May 2016 7:37 pm
Operator : seanb1
Sample : cc2547-25
Misc : op94078,e2p2594
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 23 12:31:15 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2557.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon May 23 12:20:18 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
29)	2-Nitrophenol	5.513	139	98078	26.48	ppm	#	26
30)	2,4-Dimethylphenol	5.572	107	169088	25.67	ppm		85
31)	Benzoic acid	5.684	105	97754	18.95	ppm		99
32)	bis(2-Chloroethoxy)met...	5.625	93	186091	22.30	ppm		98
33)	2,4-Dichlorophenol	5.732	162	133806	23.60	ppm		95
34)	2,6-Dichlorophenol	5.903	162	138224	25.89	ppm		93
35)	1,3,5-Trichlorobenzene	5.513	180	175442	26.94	ppm		99
36)	1,2,4-Trichlorobenzene	5.775	180	159731	25.57	ppm		97
37)	1,2,3-Trichlorobenzene	5.957	180	156881	27.00	ppm		98
38)	Naphthalene	5.839	128	456159	23.52	ppm		97
39)	4-Chloroaniline	5.898	127	181226	21.61	ppm		88
40)	2,3-Dichloroaniline	6.647	161	178664	25.72	ppm		90
41)	Caprolactam	6.192	113	49956	22.98	ppm		82
42)	Hexachlorobutadiene	5.935	225	104727	33.90	ppm		99
43)	4-Chloro-3-methylphenol	6.326	107	155273	26.69	ppm	#	28
44)	2-Methylnaphthalene	6.406	141	268457	24.78	ppm		85
45)	1-Methylnaphthalene	6.486	141	284202	25.59	ppm		82
46)	Dimethylnaphthalene	6.919	156	278464	25.45	ppm		86
48)	Hexachlorocyclopentadiene	6.529	237	162846	43.58	ppm		93
49)	2,4,6-Trichlorophenol	6.657	196	105311	24.50	ppm		99
50)	2,4,5-Trichlorophenol	6.705	196	117309	25.35	ppm		99
52)	2-Chloronaphthalene	6.812	162	305952	22.44	ppm		99
53)	Biphenyl	6.791	154	398028	23.26	ppm		94
54)	2-Nitroaniline	6.909	65	144669	30.54	ppm		80
55)	Dimethylphthalate	7.048	163	365338	24.68	ppm		99
56)	Acenaphthylene	7.149	152	476381	21.46	ppm		100
57)	2,6-Dinitrotoluene	7.107	165	79706	25.38	ppm		90
58)	3-Nitroaniline	7.251	138	85457	20.61	ppm		72
59)	Acenaphthene	7.294	153	309007	22.72	ppm		97
60)	2,4-Dinitrophenol	7.342	184	66238	43.55	ppm		84
61)	4-Nitrophenol	7.438	109	75108	40.04	ppm	#	1
62)	Dibenzofuran	7.433	168	447069	24.87	ppm		82
63)	2,4-Dinitrotoluene	7.438	165	108658	26.40	ppm	#	43
64)	2,3,4,6-Tetrachlorophenol	7.551	232	82747	23.50	ppm		88
65)	Diethylphthalate	7.625	149	381783	25.42	ppm		94
66)	Fluorene	7.722	166	367499	24.61	ppm		91
67)	4-Chlorophenyl-phenyle...	7.722	204	187944	28.80	ppm		97
68)	4-Nitroaniline	7.759	138	75383	18.40	ppm	#	75
70)	4,6-Dinitro-2-methylph...	7.786	198	63472	26.23	ppm	#	61
71)	n-Nitrosodiphenylamine	7.829	169	244652	21.84	ppm		96
72)	1,2-Diphenylhydrazine	7.855	77	452223	25.11	ppm		94
74)	4-Bromophenyl-phenylether	8.155	248	110730	26.29	ppm		99
75)	Hexachlorobenzene	8.208	284	117319	26.02	ppm		98
76)	Pentachlorophenol	8.417	266	100674	33.03	ppm		93
77)	Phenanthrene	8.615	178	519995	21.40	ppm		100
78)	Anthracene	8.663	178	516518	21.43	ppm		99
79)	Carbazole	8.845	167	468233	20.66	ppm		92
80)	Di-n-butylphthalate	9.225	149	684764	22.71	ppm		97
81)	Fluoranthene	9.957	202	666951	25.27	ppm		88
82)	Octadecane	8.476	43	278474	26.18	ppm		84

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2594\
Data File : 2p59401A.D
Acq On : 20 May 2016 7:37 pm
Operator : seanb1
Sample : cc2547-25
Misc : op94078,e2p2594
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 23 12:31:15 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2557.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon May 23 12:20:18 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
84)	Pyrene	10.246	202	664991	21.16	ppm	97
86)	Butylbenzylphthalate	11.177	149	318867	20.68	ppm	80
87)	Butyl stearate	11.305	56	207791	15.76	ppm	74
88)	Benzo[a]anthracene	11.920	228	682706	23.51	ppm	98
89)	3,3'-Dichlorobenzidine	11.915	252	247347	25.17	ppm	96
90)	Chrysene	11.969	228	581547	22.14	ppm	97
91)	bis(2-Ethylhexyl)phtha...	12.049	149	413839	21.46	ppm	93
93)	Di-n-octylphthalate	13.001	149	766150	22.00	ppm	100
94)	Benzo[b]fluoranthene	13.439	252	646019	24.28	ppm	88
95)	Benzo[k]fluoranthene	13.477	252	544278	23.42	ppm	85
96)	Benzo[a]pyrene	13.867	252	534574	23.68	ppm	87
97)	Indeno[1,2,3-cd]pyrene	15.424	276	517733m	26.52	ppm	
98)	Dibenz(a,h)acridine	15.081	279	444026	24.94	ppm	91
99)	Dibenz[a,h]anthracene	15.461	278	516490	26.42	ppm	84
100)	7,12-Dimethylbenz(a)an...	13.434	256	251533	23.20	ppm	99
101)	Benzo[g,h,i]perylene	15.846	276	512517	24.83	ppm	73

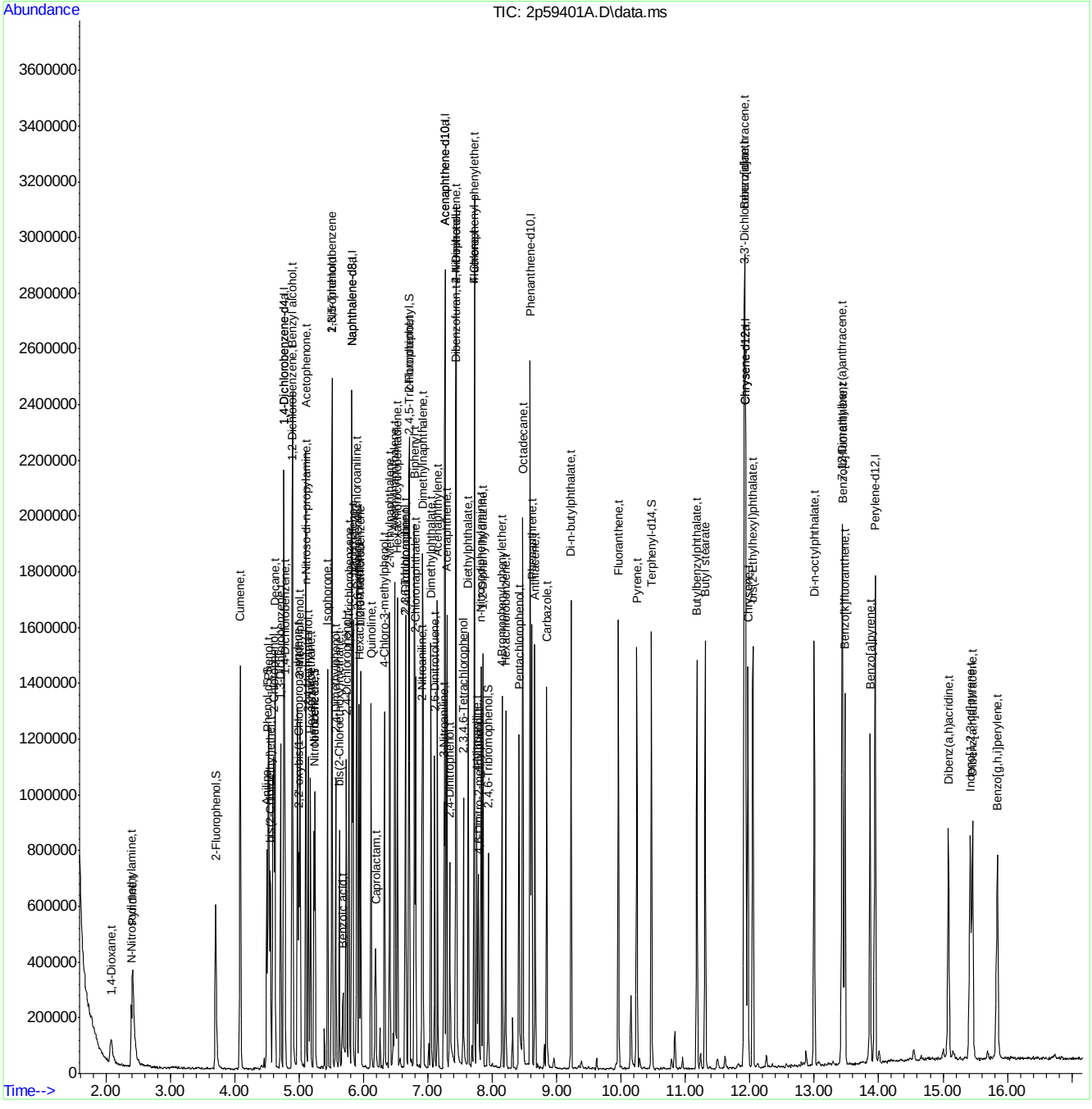
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2594\
Data File : 2p59401A.D
Acq On : 20 May 2016 7:37 pm
Operator : seanb1
Sample : cc2547-25
Misc : op94078,e2p2594
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 23 12:31:15 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2557.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon May 23 12:20:18 2016
Response via : Initial Calibration



SGS ACCUTEST JC20098

Manual Integration Approval Summary

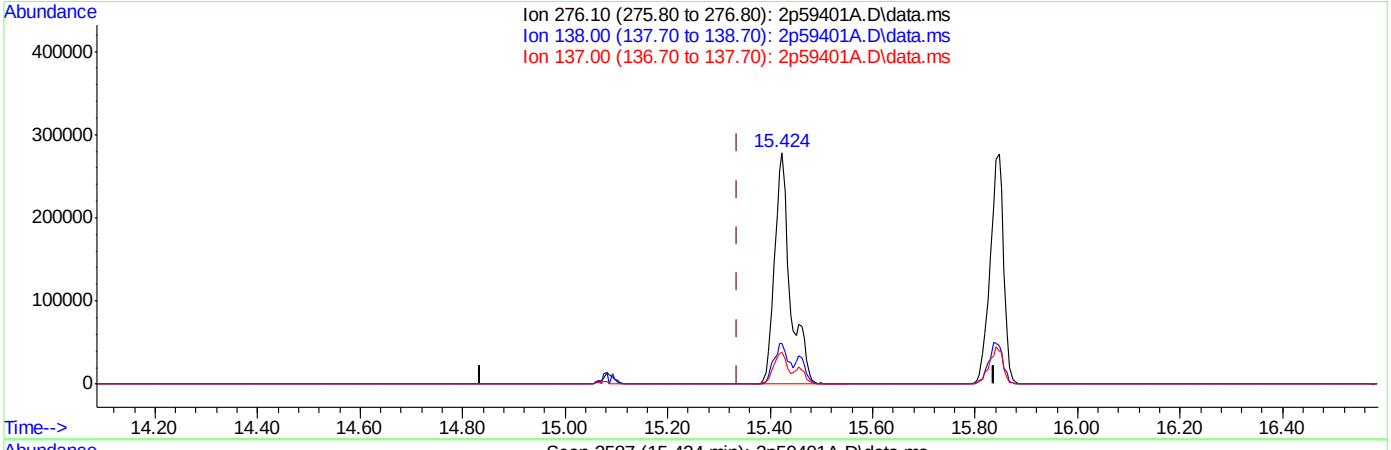
Sample Number:	E2P2594-CC2547	**Method:**	EPA 625
Lab FileID:	2P59401A.D	**Analyst approved:**	05/23/16 13:57 Ashley Dye
Injection Time:	05/20/16 19:37	**Supervisor approved:**	05/25/16 11:21 Kristi Schollenberger

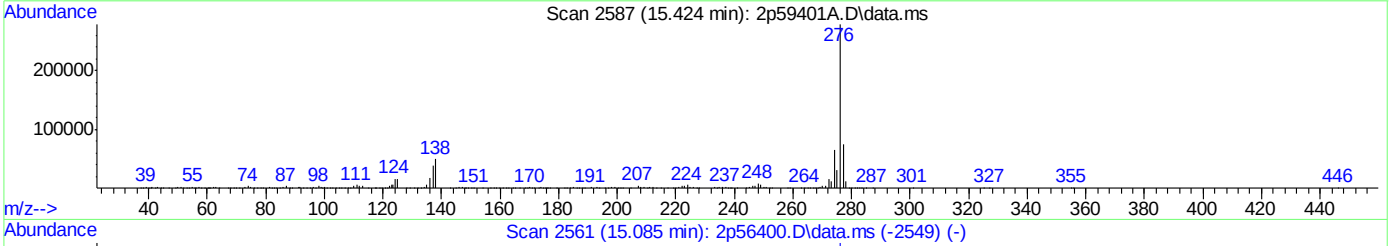
Parameter	CAS	Sig#	R.T. (min.)	Reason
Indeno(1,2,3-cd)pyrene	193-39-5		15.42	Overlapping peak

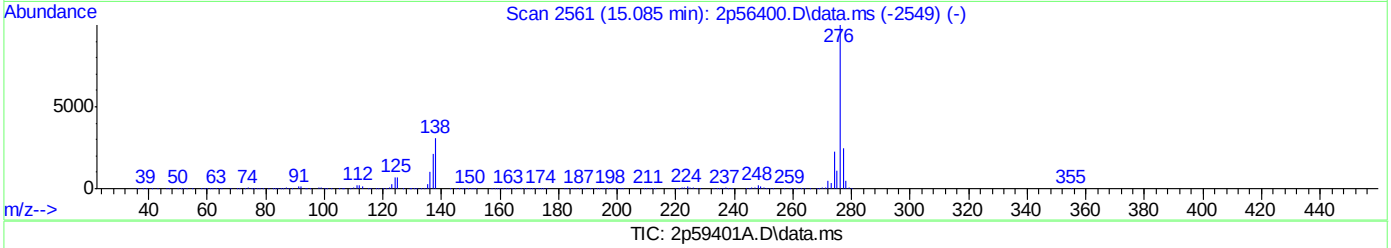
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P2594\
Data File : 2p59401A.D
Acq On : 20 May 2016 7:37 pm
Operator : seanb1
Sample : cc2547-25
Misc : op94078,e2p2594
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 23 12:20:22 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2557.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon May 23 12:20:18 2016
Response via : Initial Calibration







TIC: 2p59401A.D\data.ms

(97) Indeno[1,2,3-cd]pyrene (t)

15.424min (+0.087) 30.60ppm

response 597323

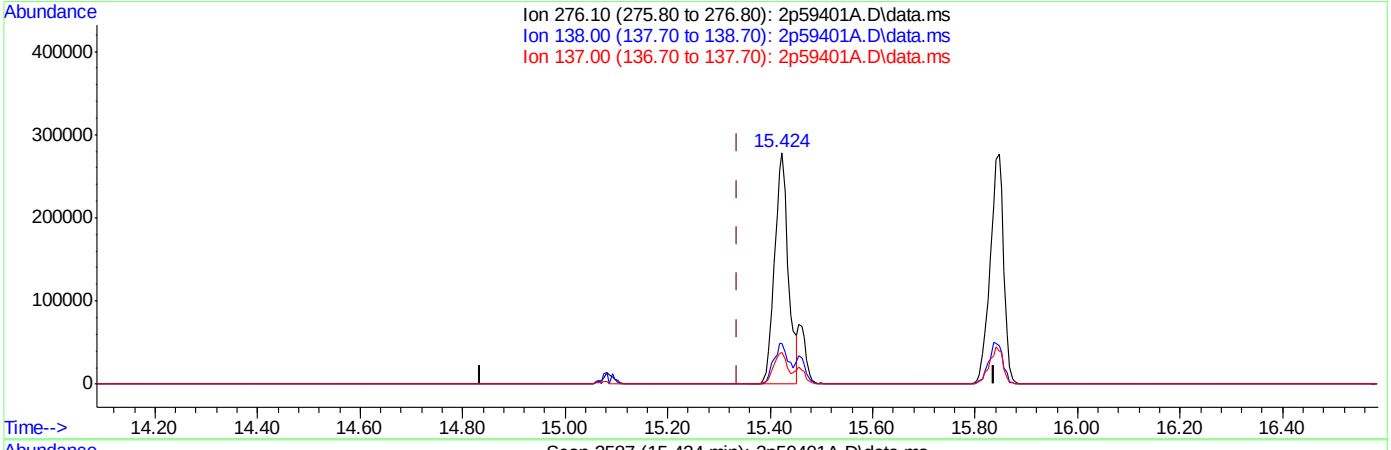
Ion	Exp%	Act%
276.10	100	100
138.00	21.00	17.54
137.00	16.70	13.91
0.00	0.00	0.00

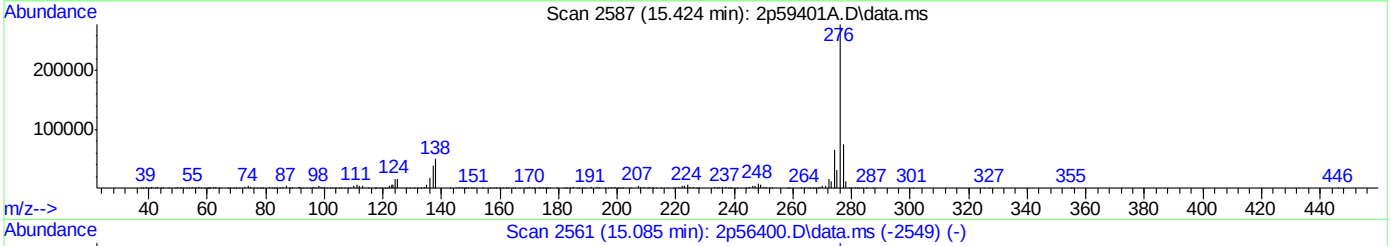
SGS ACCUTEST JC20098

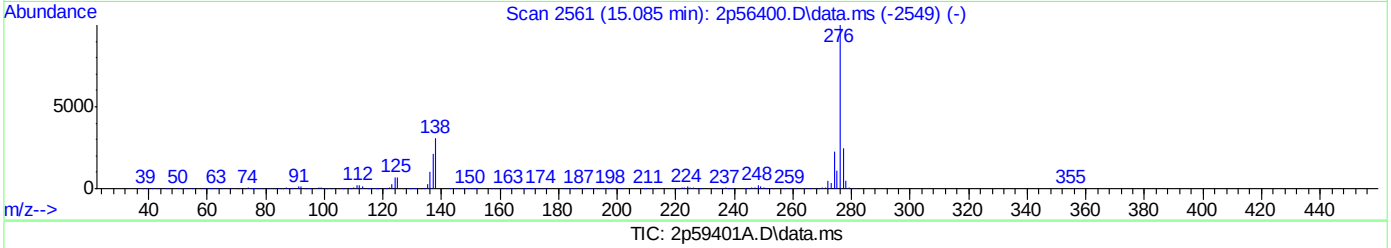
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P2594\
Data File : 2p59401A.D
Acq On : 20 May 2016 7:37 pm
Operator : seanb1
Sample : cc2547-25
Misc : op94078,e2p2594
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 23 12:20:22 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2557.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon May 23 12:20:18 2016
Response via : Initial Calibration







TIC: 2p59401A.D\data.ms

(97) Indeno[1,2,3-cd]pyrene (t)

15.424min (+0.087) 26.52ppm m

response 517733

Ion	Exp%	Act%
276.10	100	100
138.00	21.00	17.62
137.00	16.70	13.92
0.00	0.00	0.00

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2594\
Data File : 2p59402.D
Acq On : 20 May 2016 8:00 pm
Operator : seanb1
Sample : cc2557-25
Misc : op94078,e2p2594
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 23 12:38:29 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2557.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Apr 25 15:59:04 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.764	152	312563	40.00	ppm	0.00
24) Naphthalene-d8	5.817	136	1147783	40.00	ppm	0.00
47) Acenaphthene-d10	7.267	164	704903	40.00	ppm	0.00
69) Phenanthrene-d10	8.588	188	1213384	40.00	ppm	0.00
83) Chrysene-d12	11.931	240	1272165	40.00	ppm	0.00
92) Perylene-d12	13.947	264	1130279	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.764	152	312563	40.00	ppm	0.00
104) Naphthalene-d8a	5.817	136	1147783	40.00	ppm	# 0.00
106) Acenaphthene-d10a	7.267	164	704903	40.00	ppm	0.00
109) Chrysene-d12a	11.931	240	1272165	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000	Range 11 - 58		Recovery = 0.00%#			
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000	Range 10 - 59		Recovery = 0.00%#			
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000	Range 19 - 61		Recovery = 0.00%#			
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000	Range 21 - 58		Recovery = 0.00%#			
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000	Range 12 - 68		Recovery = 0.00%#			
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000	Range 16 - 65		Recovery = 0.00%#			
Target Compounds						Qvalue
103) Benzaldehyde	4.400	105	204498	25.09	ppm	# 78
105) Hydroquinone	6.208	110	251863	24.17	ppm	# 59
107) Atrazine	8.321	215	87931	32.37	ppm	# 72
108) 1,2,4,5-Tetrachloroben...	6.545	216	268168	30.62	ppm	99
110) Benzidine	10.155	184	413115	58.99	ppm	98

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

7.6.27

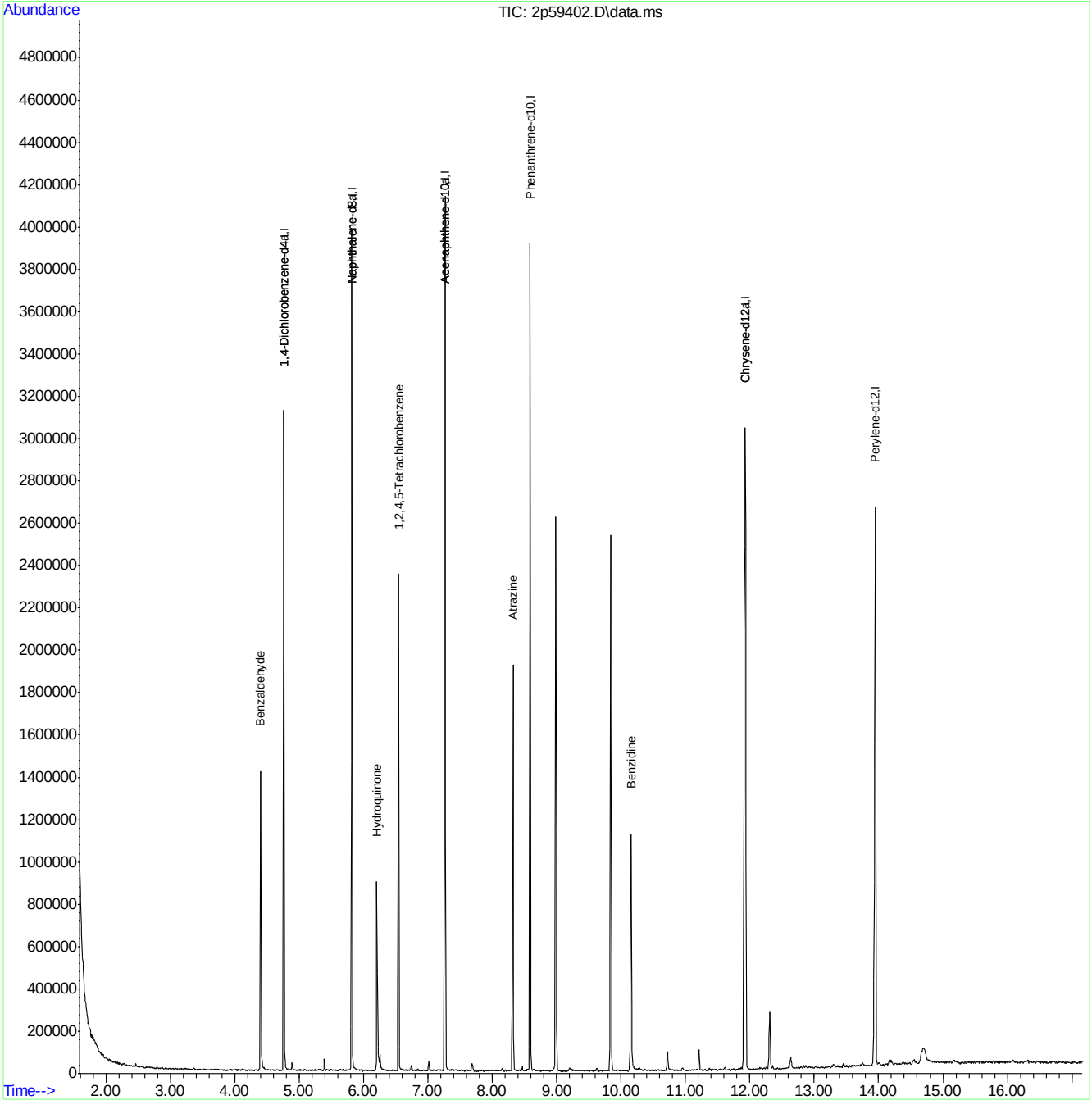
7

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2594\
Data File : 2p59402.D
Acq On : 20 May 2016 8:00 pm
Operator : seanb1
Sample : cc2557-25
Misc : op94078,e2p2594
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 23 12:38:29 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2557.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Apr 25 15:59:04 2016
Response via : Initial Calibration



SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60763a.D
Acq On : 21 Apr 2016 2:34 pm
Operator : linseyk
Sample : icc2855-1
Misc : op93052a,e3m2855
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 22 08:25:46 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:25:42 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.640	150	400870	4.00	ppm	0.00
14) Fluorene-d10	13.625	176	625702	4.00	ppm	0.00
21) Fluoranthene-d10	17.843	212	1077133	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.448	264	871075	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	4.515	112	1020090	20.00	ppm	0.00
Spiked Amount 50.000			Recovery = 40.00%			
4) Phenol-d5	6.104	99	1710029	20.00	ppm	0.00
Spiked Amount 50.000			Recovery = 40.00%			
7) Nitrobenzene-d5	7.726	82	1614929	20.00	ppm	0.00
Spiked Amount 50.000			Recovery = 40.00%			
15) 2-Fluorobiphenyl	11.303	172	3472226	20.00	ppm	0.00
Spiked Amount 50.000			Recovery = 40.00%			
20) 2,4,6-Tribromophenol	14.172	330	412126	20.00	ppm	0.00
Spiked Amount 50.000			Recovery = 40.00%			
28) Terphenyl-d14	18.647	244	3034780	20.00	ppm	0.00
Spiked Amount 50.000			Recovery = 40.00%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.289	88	20871	1.00	ppm	100
5) Phenol	6.128	94	465092	5.00	ppm	100
6) bis(2-Chloroethyl)ether	6.285	93	70869	1.00	ppm	100
8) Nitrobenzene	7.764	77	86151	1.00	ppm	100
9) Naphthalene	9.138	128	219827	1.00	ppm	100
10) Hexachlorobutadiene	9.421	225	40324	1.00	ppm	100
11) 2-Methylnaphthalene	10.517	141	120636	1.00	ppm	100
12) 1-Methylnaphthalene	10.702	141	140296	1.00	ppm	100
13) Hexachlorocyclopentadiene	10.846	237	70869	2.00	ppm	100
16) Acenaphthylene	12.293	152	240199	1.00	ppm	100
17) Acenaphthene	12.648	153	154130	1.00	ppm	100
18) 4,6-dinitro-2-methylph...	13.851	198	102012	5.00	ppm	100
19) Fluorene	13.682	166	186031	1.00	ppm	100
22) Hexachlorobenzene	14.783	284	51035	1.00	ppm	100
23) Pentachlorophenol	15.200	266	181848	5.00	ppm	100
24) Phenanthrene	15.602	178	268689	1.00	ppm	100
25) Anthracene	15.711	178	253406	1.00	ppm	100
26) Fluoranthene	17.874	202	309707	1.00	ppm	100
27) Pyrene	18.261	202	317795	1.00	ppm	100
29) Benzo[a]anthracene	20.346	228	287712	1.00	ppm	100
30) Chrysene	20.408	228	289281	1.00	ppm	100
32) Benzo[b]fluoranthene	22.015	252	292603	1.00	ppm	100
33) Benzo[k]fluoranthene	22.061	252	269694	0.99	ppm	100
34) Benzo[a]pyrene	22.463	252	265091	1.00	ppm	100
35) Indeno[1,2,3-cd]pyrene	23.963	276	292264	1.00	ppm	100
36) Dibenz[a,h]anthracene	24.020	278	233740	0.93	ppm	81
37) Benzo[g,h,i]perylene	24.358	276	248979	1.00	ppm	100

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60763a.D
Acq On : 21 Apr 2016 2:34 pm
Operator : linseyk
Sample : icc2855-1
Misc : op93052a,e3m2855
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 22 08:25:46 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:25:42 2016
Response via : Initial Calibration

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

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

7.6.28

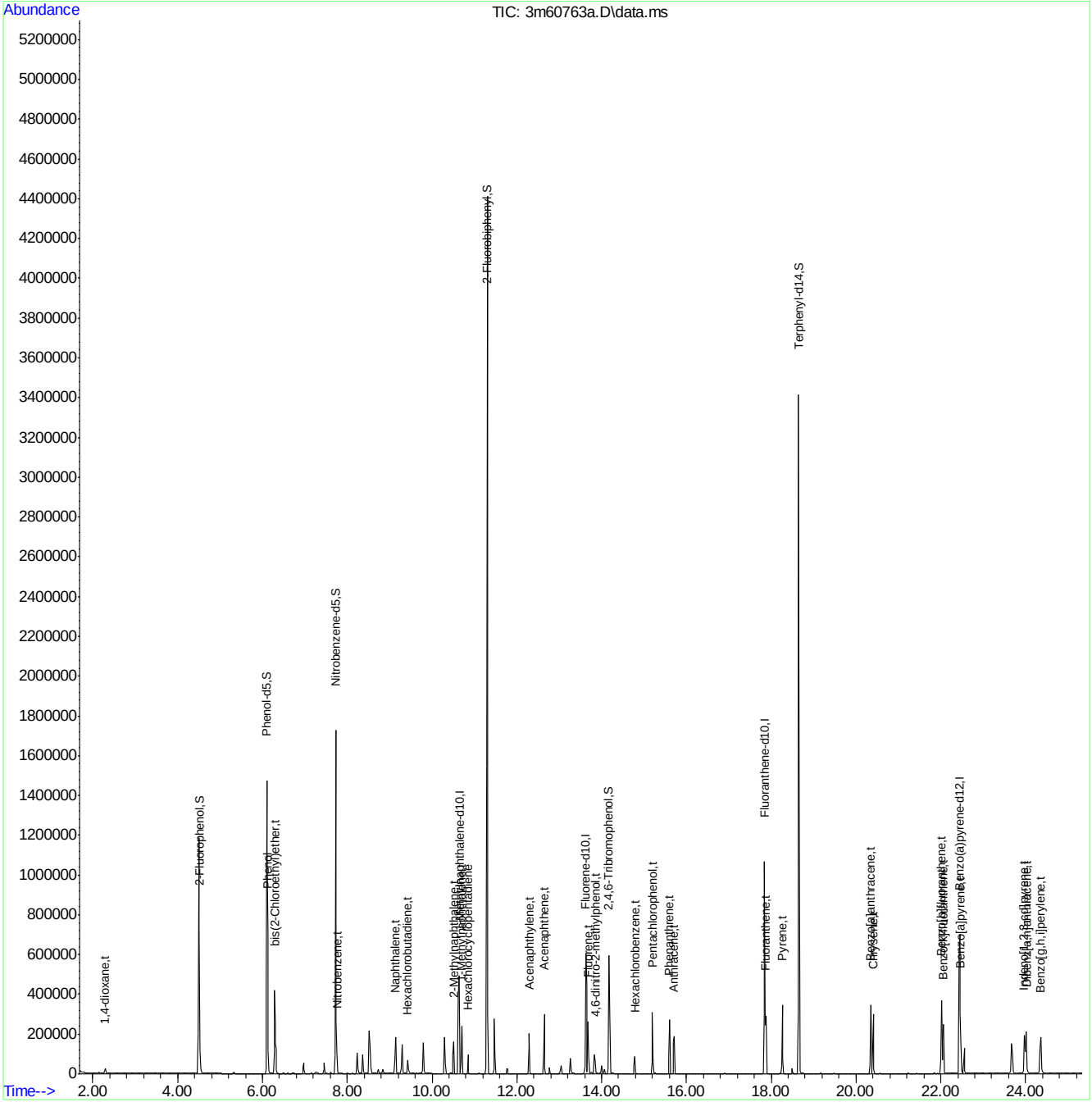
7

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60763a.D
Acq On : 21 Apr 2016 2:34 pm
Operator : linseyk
Sample : icc2855-1
Misc : op93052a,e3m2855
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 22 08:25:46 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:25:42 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60764a.D
Acq On : 21 Apr 2016 3:07 pm
Operator : linseyk
Sample : ic2855-0.5
Misc : op93052a,e3m2855
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 22 08:26:16 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:26:05 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.620	150	358247	4.00	ppm	-0.02
14) Fluorene-d10	13.625	176	572881	4.00	ppm	0.00
21) Fluoranthene-d10	17.843	212	971465	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.432	264	803329	4.00	ppm	-0.02
System Monitoring Compounds						
3) 2-Fluorophenol	4.515	112	465758	10.22	ppm	0.00
Spiked Amount 50.000			Recovery = 20.44%			
4) Phenol-d5	6.104	99	786231	10.29	ppm	0.00
Spiked Amount 50.000			Recovery = 20.58%			
7) Nitrobenzene-d5	7.726	82	745253	10.33	ppm	0.00
Spiked Amount 50.000			Recovery = 20.66%			
15) 2-Fluorobiphenyl	11.303	172	1590025	10.00	ppm	0.00
Spiked Amount 50.000			Recovery = 20.00%			
20) 2,4,6-Tribromophenol	14.172	330	191850	10.17	ppm	0.00
Spiked Amount 50.000			Recovery = 20.34%			
28) Terphenyl-d14	18.647	244	1433884	10.48	ppm	0.00
Spiked Amount 50.000			Recovery = 20.96%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.289	88	9527	0.51	ppm	66
5) Phenol	6.116	94	208854	2.51	ppm #	64
6) bis(2-Chloroethyl)ether	6.285	93	31897	0.50	ppm	98
8) Nitrobenzene	7.764	77	37433	0.49	ppm	96
9) Naphthalene	9.138	128	98367	0.50	ppm	99
10) Hexachlorobutadiene	9.421	225	18124	0.50	ppm	97
11) 2-Methylnaphthalene	10.517	141	50870	0.47	ppm	97
12) 1-Methylnaphthalene	10.702	141	62617	0.50	ppm	98
13) Hexachlorocyclopentadiene	10.845	237	29084	0.92	ppm	100
16) Acenaphthylene	12.293	152	105827	0.48	ppm	99
17) Acenaphthene	12.648	153	67805	0.48	ppm	97
18) 4,6-dinitro-2-methylph...	13.851	198	30000	1.61	ppm	98
19) Fluorene	13.682	166	81831	0.48	ppm	98
22) Hexachlorobenzene	14.783	284	23082	0.50	ppm	99
23) Pentachlorophenol	15.200	266	74585	2.27	ppm	96
24) Phenanthrene	15.602	178	120971	0.50	ppm	98
25) Anthracene	15.695	178	110700	0.48	ppm	87
26) Fluoranthene	17.874	202	132546	0.47	ppm	98
27) Pyrene	18.261	202	140572	0.49	ppm	100
29) Benzo[a]anthracene	20.346	228	124954	0.48	ppm	99
30) Chrysene	20.408	228	123107	0.47	ppm	98
32) Benzo[b]fluoranthene	22.015	252	128656	0.48	ppm	98
33) Benzo[k]fluoranthene	22.061	252	114388	0.46	ppm	97
34) Benzo[a]pyrene	22.463	252	116726	0.48	ppm	99
35) Indeno[1,2,3-cd]pyrene	23.963	276	127053	0.47	ppm	99
36) Dibenz[a,h]anthracene	24.020	278	97979	0.45	ppm	100
37) Benzo[g,h,i]perylene	24.358	276	108758	0.47	ppm	99

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60764a.D
Acq On : 21 Apr 2016 3:07 pm
Operator : linseyk
Sample : ic2855-0.5
Misc : op93052a,e3m2855
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 22 08:26:16 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:26:05 2016
Response via : Initial Calibration

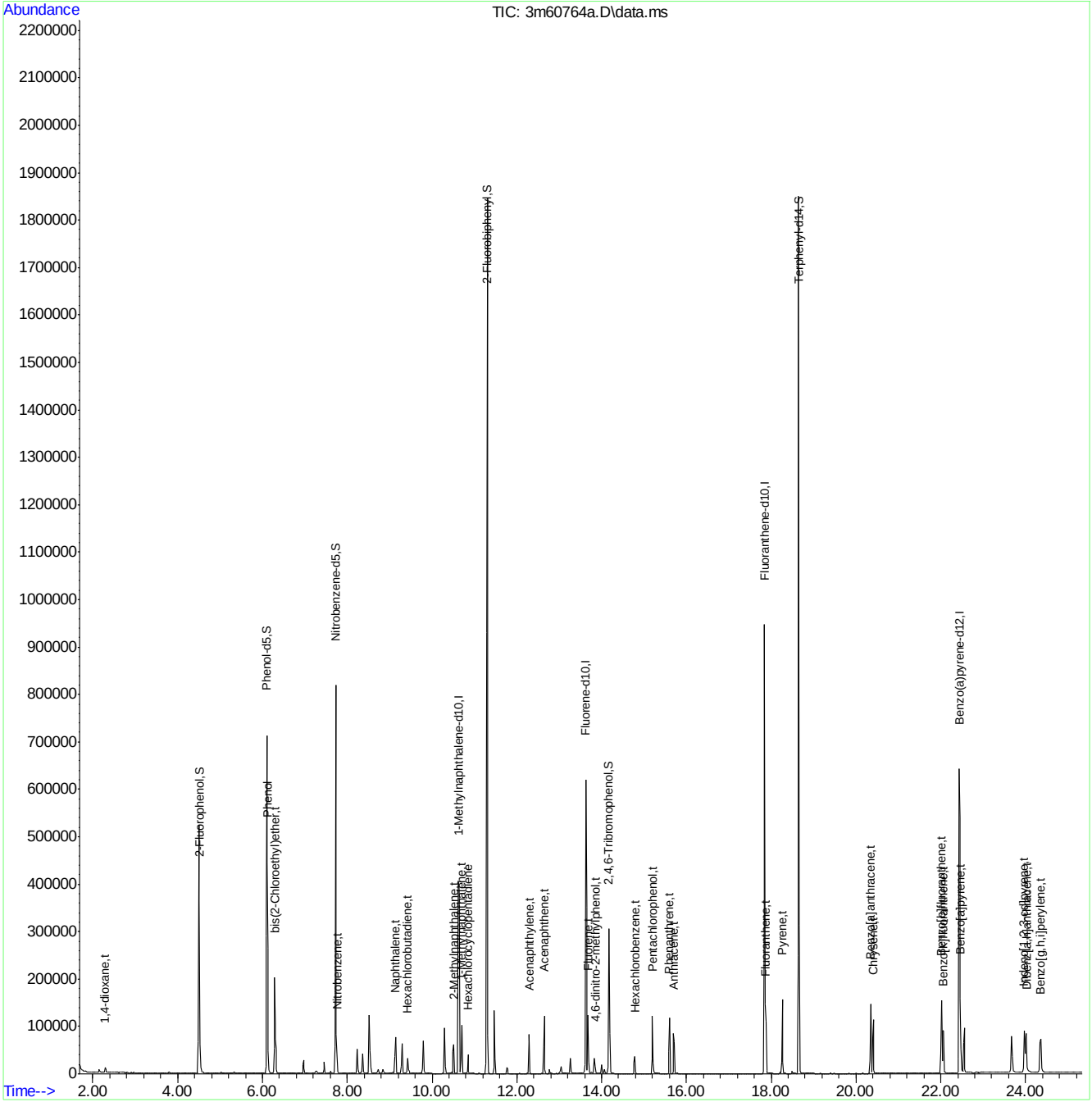
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60764a.D
Acq On : 21 Apr 2016 3:07 pm
Operator : linseyk
Sample : ic2855-0.5
Misc : op93052a,e3m2855
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 22 08:26:16 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:26:05 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60765a.D
Acq On : 21 Apr 2016 3:39 pm
Operator : linseyk
Sample : ic2855-0.2
Misc : op93052a,e3m2855
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 22 08:26:53 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:26:46 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.641	150	350963	4.00	ppm	0.02
14) Fluorene-d10	13.625	176	541559	4.00	ppm	0.00
21) Fluoranthene-d10	17.844	212	945802	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.432	264	762324	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	4.515	112	182333	4.04	ppm	0.00
Spiked Amount 50.000			Recovery	=	8.08%	
4) Phenol-d5	6.104	99	309088	4.07	ppm	0.00
Spiked Amount 50.000			Recovery	=	8.14%	
7) Nitrobenzene-d5	7.726	82	282457	3.93	ppm	0.00
Spiked Amount 50.000			Recovery	=	7.86%	
15) 2-Fluorobiphenyl	11.303	172	631033	4.20	ppm	0.00
Spiked Amount 50.000			Recovery	=	8.40%	
20) 2,4,6-Tribromophenol	14.172	330	70258	3.91	ppm	0.00
Spiked Amount 50.000			Recovery	=	7.82%	
28) Terphenyl-d14	18.647	244	584275	4.28	ppm	0.00
Spiked Amount 50.000			Recovery	=	8.56%	
Target Compounds						Qvalue
2) 1,4-dioxane	2.290	88	3559	0.19	ppm #	20
5) Phenol	6.116	94	80728	0.99	ppm #	72
6) bis(2-Chloroethyl)ether	6.285	93	12510	0.20	ppm	96
8) Nitrobenzene	7.764	77	14471	0.19	ppm	100
9) Naphthalene	9.139	128	39500	0.21	ppm	99
10) Hexachlorobutadiene	9.421	225	7119	0.20	ppm	100
11) 2-Methylnaphthalene	10.517	141	20355	0.20	ppm	100
12) 1-Methylnaphthalene	10.702	141	25492	0.21	ppm	98
13) Hexachlorocyclopentadiene	10.846	237	9938	0.33	ppm	99
16) Acenaphthylene	12.293	152	39006	0.19	ppm	99
17) Acenaphthene	12.648	153	26171	0.20	ppm	99
18) 4,6-dinitro-2-methylph...	13.852	198	7553	0.52	ppm	92
19) Fluorene	13.682	166	31388	0.20	ppm	99
22) Hexachlorobenzene	14.783	284	8969	0.20	ppm	98
23) Pentachlorophenol	15.200	266	23466	0.77	ppm	99
24) Phenanthrene	15.602	178	45498	0.19	ppm	100
25) Anthracene	15.711	178	40800	0.19	ppm	99
26) Fluoranthene	17.874	202	52573	0.20	ppm	99
27) Pyrene	18.261	202	52427	0.19	ppm	99
29) Benzo[a]anthracene	20.347	228	46665	0.19	ppm	99
30) Chrysene	20.408	228	48799	0.20	ppm	99
32) Benzo[b]fluoranthene	22.015	252	49094	0.20	ppm	98
33) Benzo[k]fluoranthene	22.062	252	44557	0.20	ppm	99
34) Benzo[a]pyrene	22.463	252	44223	0.20	ppm	99
35) Indeno[1,2,3-cd]pyrene	23.963	276	49013	0.20	ppm	100
36) Dibenz[a,h]anthracene	24.020	278	39930	0.20	ppm	100
37) Benzo[g,h,i]perylene	24.358	276	41535	0.20	ppm	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60765a.D
Acq On : 21 Apr 2016 3:39 pm
Operator : linseyk
Sample : ic2855-0.2
Misc : op93052a,e3m2855
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 22 08:26:53 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:26:46 2016
Response via : Initial Calibration

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

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

7.6.30

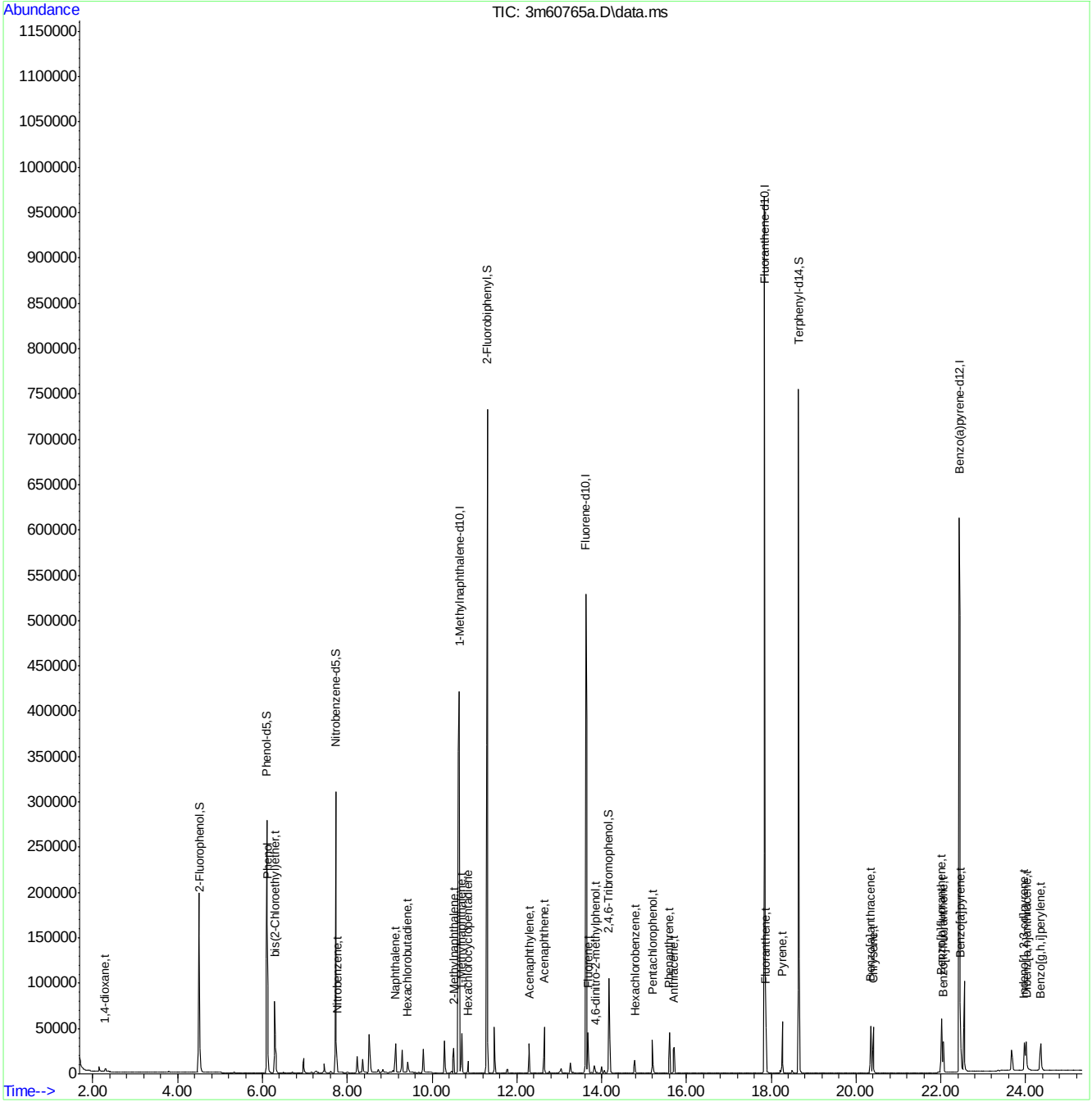
7

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60765a.D
Acq On : 21 Apr 2016 3:39 pm
Operator : linseyk
Sample : ic2855-0.2
Misc : op93052a,e3m2855
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 22 08:26:53 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:26:46 2016
Response via : Initial Calibration



M3M2855SIM.M Fri Apr 22 08:27:14 2016 RPT1 Page: 3

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60766.D
Acq On : 21 Apr 2016 4:12 pm
Operator : linseyk
Sample : ic2855-0.1
Misc : op93052a,e3m2855
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 22 08:27:25 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:27:18 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.641	150	340968	4.00	ppm	0.00
14) Fluorene-d10	13.644	176	502575	4.00	ppm	0.02
21) Fluoranthene-d10	17.844	212	887342	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.448	264	703545	4.00	ppm	0.02
System Monitoring Compounds						
3) 2-Fluorophenol	4.515	112	86528	1.97	ppm	0.00
Spiked Amount 50.000			Recovery	=	3.94%	
4) Phenol-d5	6.104	99	144256	1.94	ppm	0.00
Spiked Amount 50.000			Recovery	=	3.88%	
7) Nitrobenzene-d5	7.726	82	129224	1.86	ppm	0.00
Spiked Amount 50.000			Recovery	=	3.72%	
15) 2-Fluorobiphenyl	11.303	172	294276	2.08	ppm	0.00
Spiked Amount 50.000			Recovery	=	4.16%	
20) 2,4,6-Tribromophenol	14.172	330	28910	1.75	ppm	0.00
Spiked Amount 50.000			Recovery	=	3.50%	
28) Terphenyl-d14	18.647	244	266058	2.03	ppm	0.00
Spiked Amount 50.000			Recovery	=	4.06%	
Target Compounds						Qvalue
2) 1,4-dioxane	2.305	88	1953	0.11	ppm	93
5) Phenol	6.116	94	38102	0.48	ppm #	73
6) bis(2-Chloroethyl)ether	6.285	93	5932	0.10	ppm	92
8) Nitrobenzene	7.764	77	6815	0.10	ppm	96
9) Naphthalene	9.139	128	19053	0.10	ppm	99
10) Hexachlorobutadiene	9.421	225	3313	0.10	ppm	99
11) 2-Methylnaphthalene	10.517	141	9659	0.10	ppm	97
12) 1-Methylnaphthalene	10.702	141	12284	0.10	ppm	94
13) Hexachlorocyclopentadiene	10.846	237	4166	0.15	ppm	100
16) Acenaphthylene	12.293	152	17405	0.09	ppm	100
17) Acenaphthene	12.648	153	11953	0.10	ppm	99
18) 4,6-dinitro-2-methylph...	13.852	198	2417	0.21	ppm	96
19) Fluorene	13.682	166	14084	0.10	ppm	100
22) Hexachlorobenzene	14.783	284	4120	0.10	ppm	99
23) Pentachlorophenol	15.201	266	9313	0.35	ppm	100
24) Phenanthrene	15.602	178	20817	0.10	ppm	100
25) Anthracene	15.711	178	17457	0.09	ppm	100
26) Fluoranthene	17.874	202	24361	0.10	ppm	99
27) Pyrene	18.261	202	23618	0.09	ppm	99
29) Benzo[a]anthracene	20.347	228	21304	0.09	ppm	99
30) Chrysene	20.408	228	22498	0.10	ppm	99
32) Benzo[b]fluoranthene	22.015	252	22115	0.10	ppm	99
33) Benzo[k]fluoranthene	22.062	252	22174	0.11	ppm	99
34) Benzo[a]pyrene	22.463	252	19014	0.09	ppm	99
35) Indeno[1,2,3-cd]pyrene	23.963	276	22099	0.10	ppm	98
36) Dibenz[a,h]anthracene	24.020	278	18120	0.10	ppm	100
37) Benzo[g,h,i]perylene	24.358	276	19184	0.10	ppm	99

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60766.D
Acq On : 21 Apr 2016 4:12 pm
Operator : linseyk
Sample : ic2855-0.1
Misc : op93052a,e3m2855
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 22 08:27:25 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:27:18 2016
Response via : Initial Calibration

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

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

7.6.31

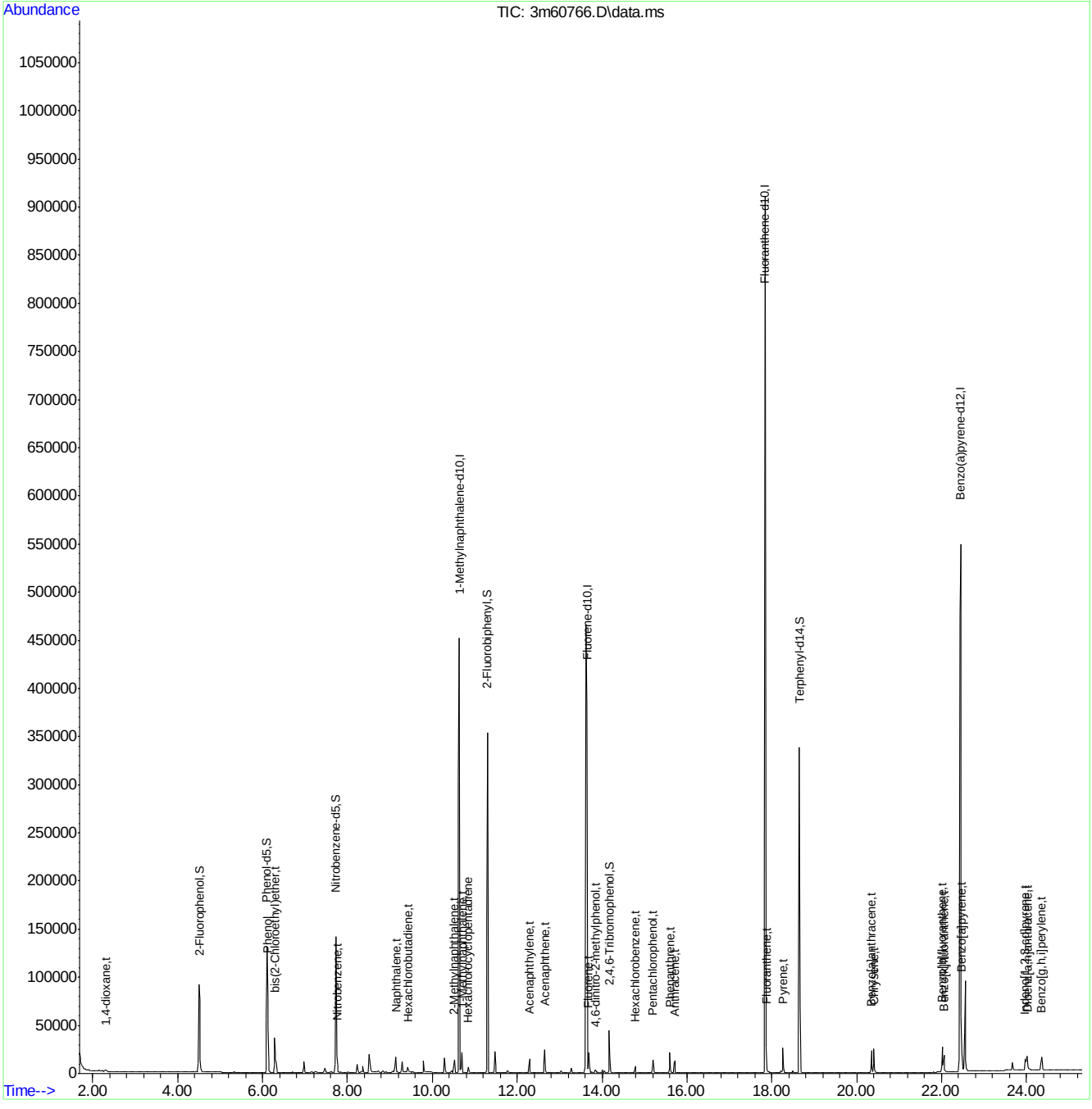
7

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60766.D
Acq On : 21 Apr 2016 4:12 pm
Operator : linseyk
Sample : ic2855-0.1
Misc : op93052a,e3m2855
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 22 08:27:25 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:27:18 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60767.D
Acq On : 21 Apr 2016 4:44 pm
Operator : linseyk
Sample : ic2855-0.05
Misc : op93052a,e3m2855
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 22 08:34:05 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:32:39 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.641	150	339033	4.00	ppm	0.00
14) Fluorene-d10	13.626	176	520555	4.00	ppm	-0.02
21) Fluoranthene-d10	17.844	212	888983	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.432	264	706519	4.00	ppm	-0.02
System Monitoring Compounds						
3) 2-Fluorophenol	4.515	112	42704	1.01	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.02%	
4) Phenol-d5	6.104	99	70262	1.00	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.00%	
7) Nitrobenzene-d5	7.726	82	63026	0.97	ppm	0.00
Spiked Amount 50.000			Recovery	=	1.94%	
15) 2-Fluorobiphenyl	11.303	172	145045	1.01	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.02%	
20) 2,4,6-Tribromophenol	14.172	330	13489	0.83	ppm	0.00
Spiked Amount 50.000			Recovery	=	1.66%	
28) Terphenyl-d14	18.647	244	135801	1.05	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.10%	
Target Compounds						Qvalue
2) 1,4-dioxane	2.305	88	1056	0.06	ppm	90
5) Phenol	6.116	94	18706	0.25	ppm #	73
6) bis(2-Chloroethyl)ether	6.285	93	3013	0.05	ppm	88
8) Nitrobenzene	7.764	77	3438	0.05	ppm	92
9) Naphthalene	9.139	128	9285	0.05	ppm	99
10) Hexachlorobutadiene	9.421	225	1685	0.05	ppm	99
11) 2-Methylnaphthalene	10.518	141	4767	0.05	ppm	96
12) 1-Methylnaphthalene	10.702	141	6629	0.05	ppm	95
13) Hexachlorocyclopentadiene	10.846	237	2049	0.08	ppm	97
16) Acenaphthylene	12.293	152	8346	0.05	ppm	99
17) Acenaphthene	12.648	153	5946	0.05	ppm	99
18) 4,6-dinitro-2-methylph...	13.852	198	948	0.07	ppm	91
19) Fluorene	13.682	166	7106	0.05	ppm	100
22) Hexachlorobenzene	14.783	284	2065	0.05	ppm	96
23) Pentachlorophenol	15.201	266	4271	0.17	ppm	98
24) Phenanthrene	15.603	178	10238	0.05	ppm	99
25) Anthracene	15.711	178	8587	0.04	ppm	98
26) Fluoranthene	17.875	202	12772	0.05	ppm	99
27) Pyrene	18.261	202	11982	0.05	ppm	98
29) Benzo[a]anthracene	20.347	228	11591	0.05	ppm	100
30) Chrysene	20.408	228	11884	0.05	ppm	99
32) Benzo[b]fluoranthene	22.015	252	11635	0.04	ppm	99
33) Benzo[k]fluoranthene	22.062	252	11007	0.05	ppm	100
34) Benzo[a]pyrene	22.463	252	12936	0.06	ppm	98
35) Indeno[1,2,3-cd]pyrene	23.963	276	10547	0.05	ppm	100
36) Dibenz[a,h]anthracene	24.020	278	8444	0.05	ppm	100
37) Benzo[g,h,i]perylene	24.358	276	9475	0.05	ppm	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60767.D
Acq On : 21 Apr 2016 4:44 pm
Operator : linseyk
Sample : ic2855-0.05
Misc : op93052a,e3m2855
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 22 08:34:05 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:32:39 2016
Response via : Initial Calibration

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

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

7.6.32

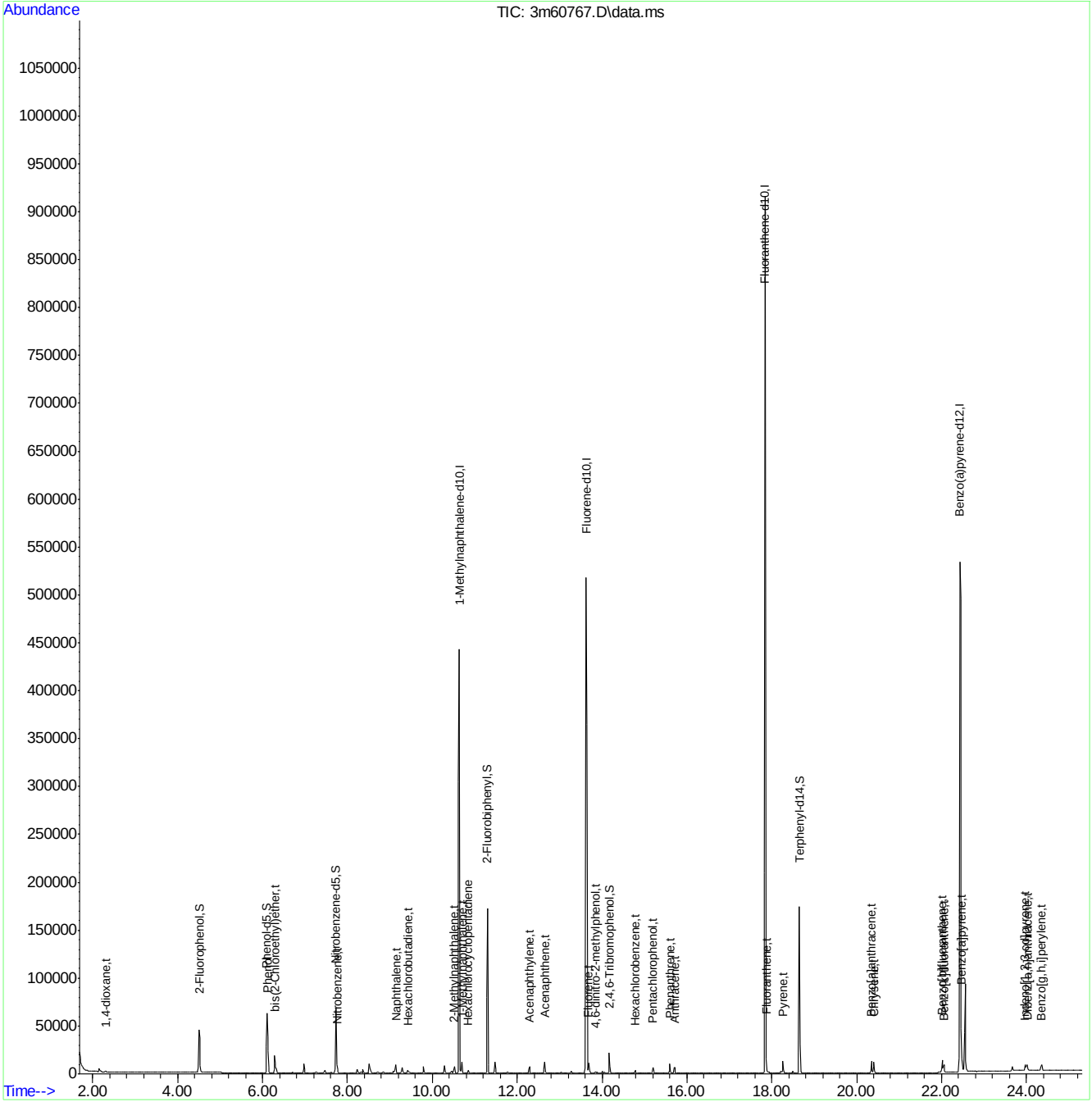
7

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60767.D
Acq On : 21 Apr 2016 4:44 pm
Operator : linseyk
Sample : ic2855-0.05
Misc : op93052a,e3m2855
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 22 08:34:05 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:32:39 2016
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
04/22/16 12:27

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60768.D
Acq On : 21 Apr 2016 5:17 pm
Operator : linseyk
Sample : ic2855-0.02
Misc : op93052a,e3m2855
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 22 08:29:49 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:28:25 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.640	150	345303	4.00	ppm	0.00
14) Fluorene-d10	13.644	176	525823	4.00	ppm	0.02
21) Fluoranthene-d10	17.843	212	917656	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.448	264	713000	4.00	ppm	0.02
System Monitoring Compounds						
3) 2-Fluorophenol	4.515	112	17018	0.39	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.78%	
4) Phenol-d5	6.104	99	28195	0.38	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.76%	
7) Nitrobenzene-d5	7.726	82	25103	0.37	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.74%	
15) 2-Fluorobiphenyl	11.303	172	57726	0.39	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.78%	
20) 2,4,6-Tribromophenol	14.172	330	4756	0.28	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.56%	
28) Terphenyl-d14	18.647	244	56137	0.41	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.82%	
Target Compounds						Qvalue
2) 1,4-dioxane	2.305	88	245m	0.01	ppm	
5) Phenol	6.116	94	7474	0.09	ppm #	72
6) bis(2-Chloroethyl)ether	6.285	93	1201	0.02	ppm	90
8) Nitrobenzene	7.764	77	1406	0.02	ppm	86
9) Naphthalene	9.138	128	3866	0.02	ppm	100
10) Hexachlorobutadiene	9.421	225	661	0.02	ppm	97
11) 2-Methylnaphthalene	10.517	141	1996	0.02	ppm	93
12) 1-Methylnaphthalene	10.702	141	3332	0.03	ppm	91
13) Hexachlorocyclopentadiene	10.846	237	791	0.03	ppm	99
16) Acenaphthylene	12.293	152	3367	0.02	ppm	98
17) Acenaphthene	12.648	153	2382	0.02	ppm	98
18) 4,6-dinitro-2-methylph...	13.852	198	336	0.03	ppm	95
19) Fluorene	13.682	166	2916	0.02	ppm	97
22) Hexachlorobenzene	14.783	284	860	0.02	ppm	95
23) Pentachlorophenol	15.200	266	1647	0.07	ppm	97
24) Phenanthrene	15.602	178	4501	0.02	ppm	99
25) Anthracene	15.711	178	3476	0.02	ppm	96
26) Fluoranthene	17.874	202	6605	0.03	ppm	99
27) Pyrene	18.261	202	5085	0.02	ppm	97
29) Benzo[a]anthracene	20.346	228	5580	0.02	ppm	99
30) Chrysene	20.408	228	6534	0.03	ppm	99
32) Benzo[b]fluoranthene	22.015	252	5729	0.02	ppm	96
33) Benzo[k]fluoranthene	22.061	252	5167	0.02	ppm	95
34) Benzo[a]pyrene	22.463	252	4349m	0.02	ppm	
35) Indeno[1,2,3-cd]pyrene	23.963	276	4283	0.02	ppm	99
36) Dibenz[a,h]anthracene	24.020	278	3214	0.02	ppm	100
37) Benzo[g,h,i]perylene	24.358	276	3711	0.02	ppm	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60768.D
Acq On : 21 Apr 2016 5:17 pm
Operator : linseyk
Sample : ic2855-0.02
Misc : op93052a,e3m2855
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 22 08:29:49 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:28:25 2016
Response via : Initial Calibration

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

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

7.6.33

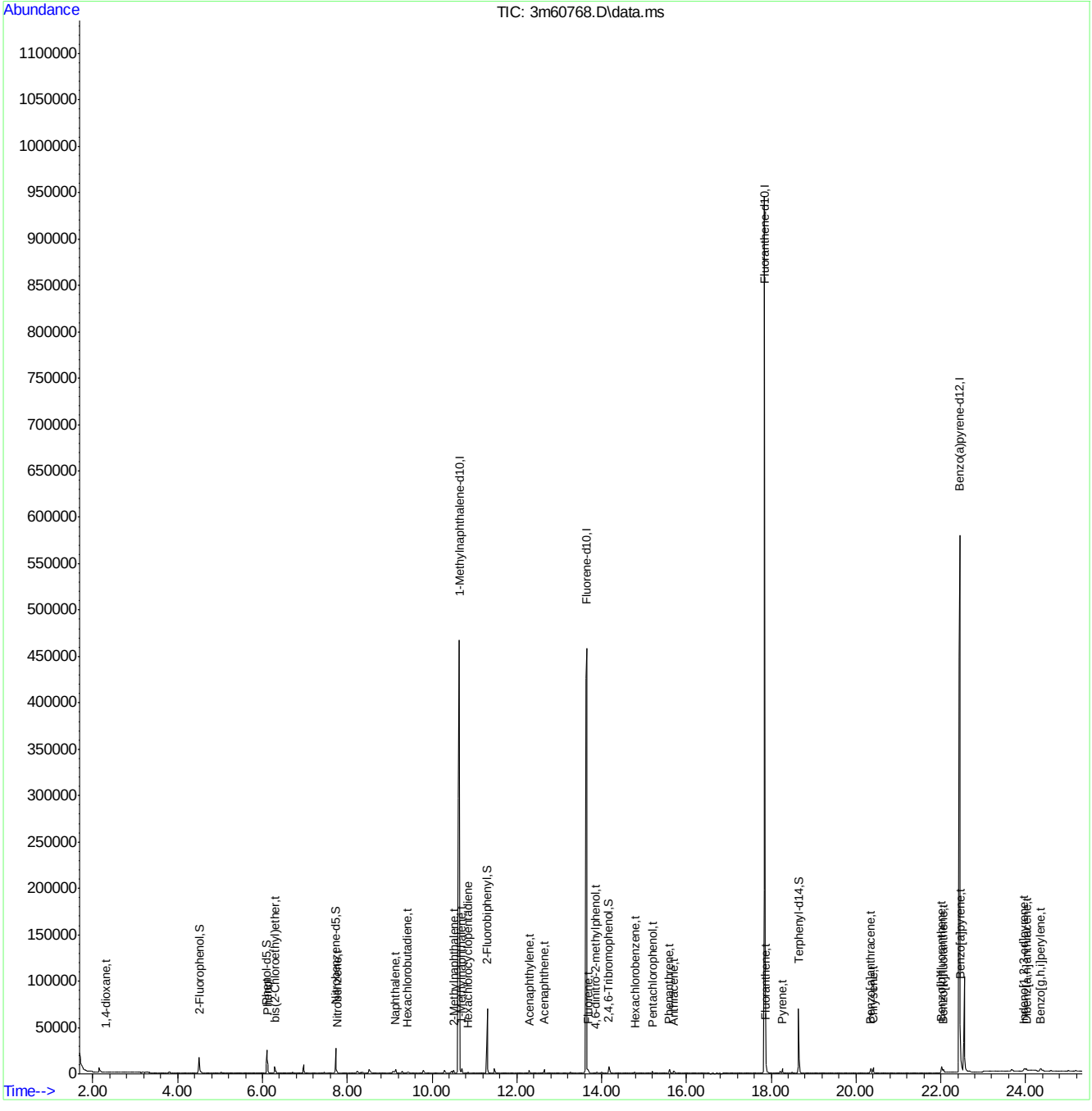
7

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60768.D
Acq On : 21 Apr 2016 5:17 pm
Operator : linseyk
Sample : ic2855-0.02
Misc : op93052a,e3m2855
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 22 08:29:49 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:28:25 2016
Response via : Initial Calibration



Manual Integration Approval Summary

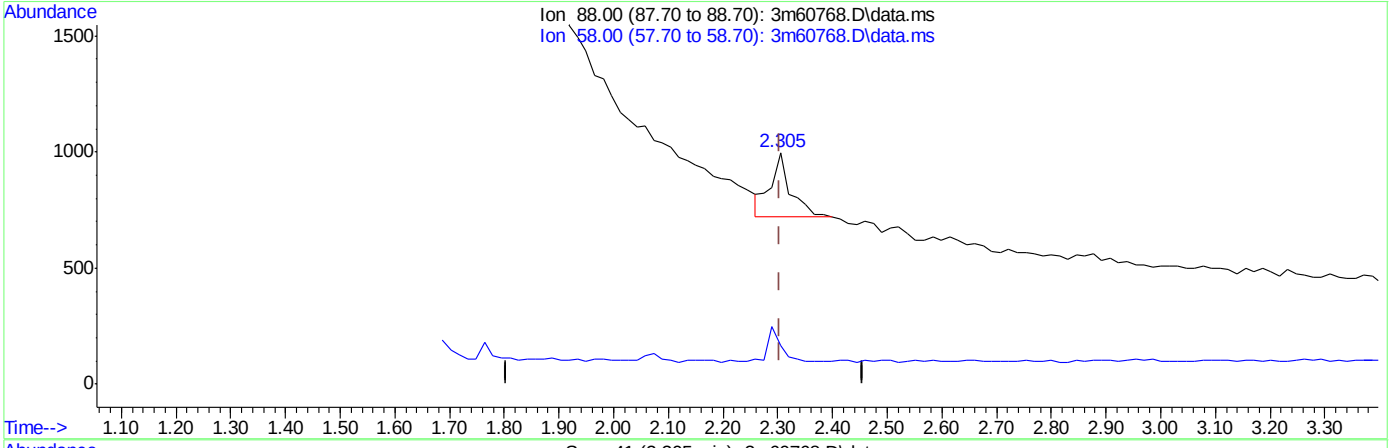
Sample Number:	E3M2855-IC2855	**Method:**	SW846 8270D BY SIM
Lab FileID:	3M60768.D	**Analyst approved:**	04/22/16 09:15 Linsey Kirschmann
Injection Time:	04/21/16 17:17	**Supervisor approved:**	04/22/16 12:27 Nina Pandya

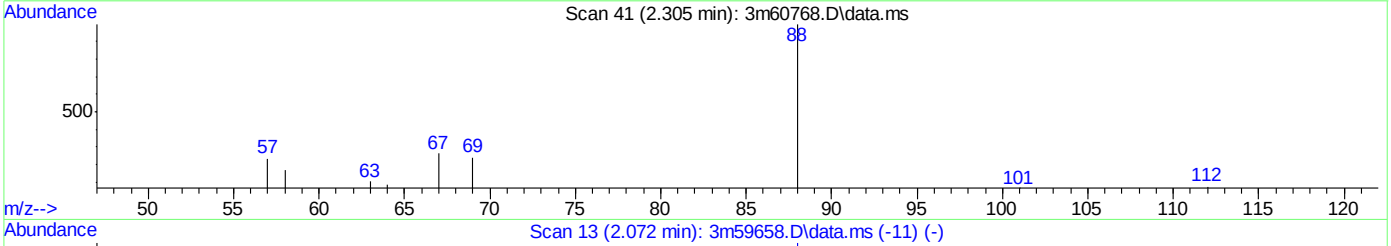
Parameter	CAS	Sig#	R.T. (min.)	Reason
1,4-Dioxane	123-91-1		2.30	Baseline ripple
Benzo(a)pyrene	50-32-8		22.46	Baseline ripple

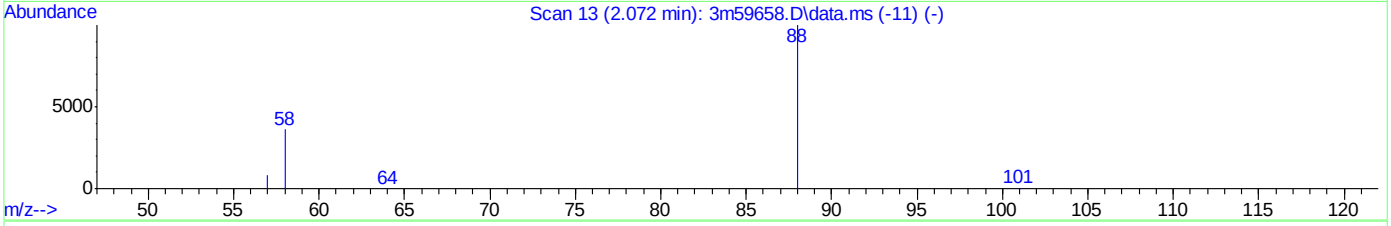
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60768.D
Acq On : 21 Apr 2016 5:17 pm
Operator : linseyk
Sample : ic2855-0.02
Misc : op93052a,e3m2855
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 22 08:28:31 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:28:25 2016
Response via : Initial Calibration







TIC: 3m60768.D\data.ms

(2) 1,4-dioxane (t)

2.305min (-0.000) 0.04ppm

response 710

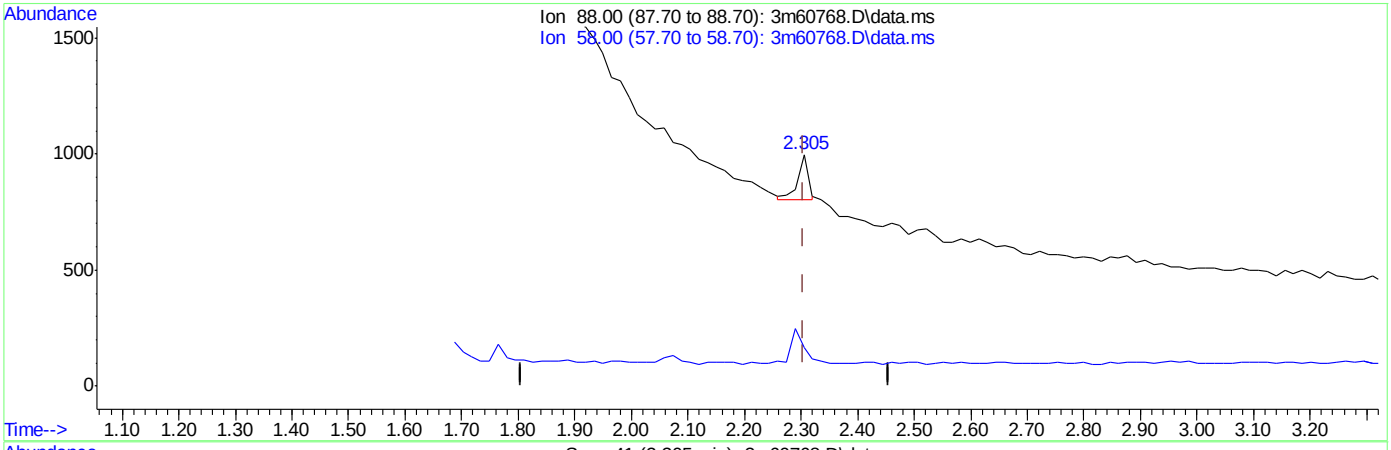
Ion	Exp%	Act%
88.00	100	100
58.00	32.40	28.23
0.00	0.00	0.00
0.00	0.00	0.00

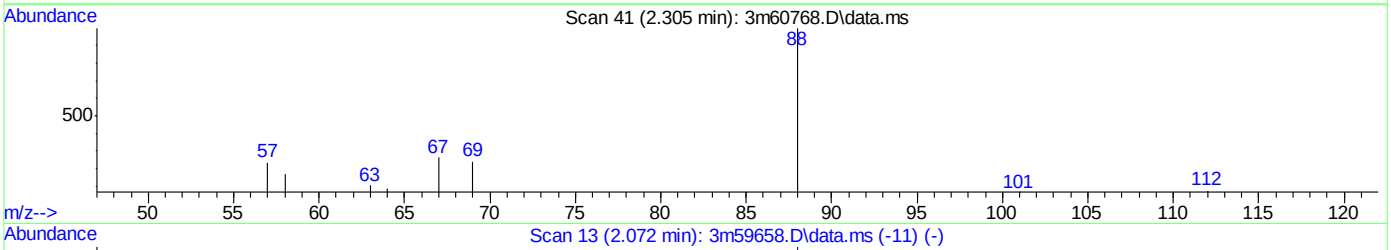
SGS ACCUTEST JC20098

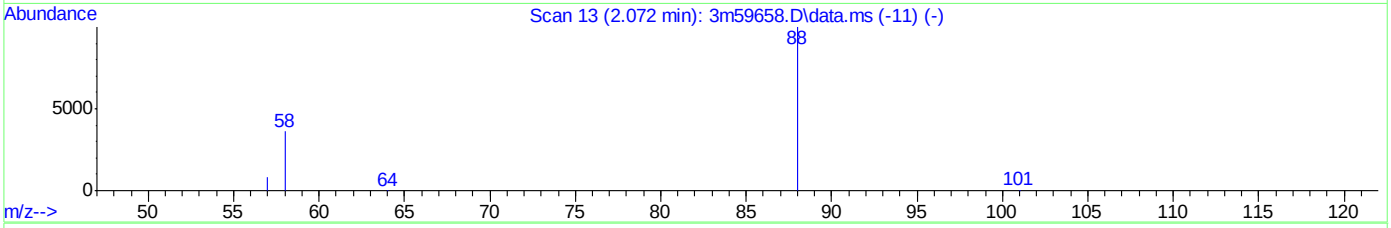
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60768.D
Acq On : 21 Apr 2016 5:17 pm
Operator : linseyk
Sample : ic2855-0.02
Misc : op93052a,e3m2855
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 22 08:28:31 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:28:25 2016
Response via : Initial Calibration







TIC: 3m60768.D\data.ms

(2) 1,4-dioxane (t)

2.305min (-0.000) 0.01ppm m

response 245

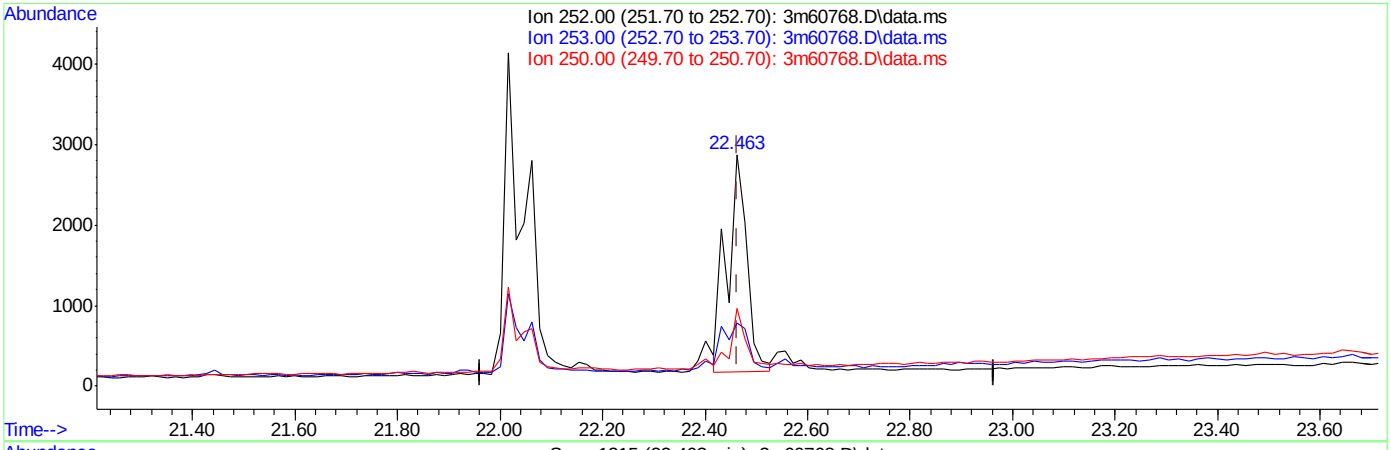
Ion	Exp%	Act%
88.00	100	100
58.00	32.40	16.63
0.00	0.00	0.00
0.00	0.00	0.00

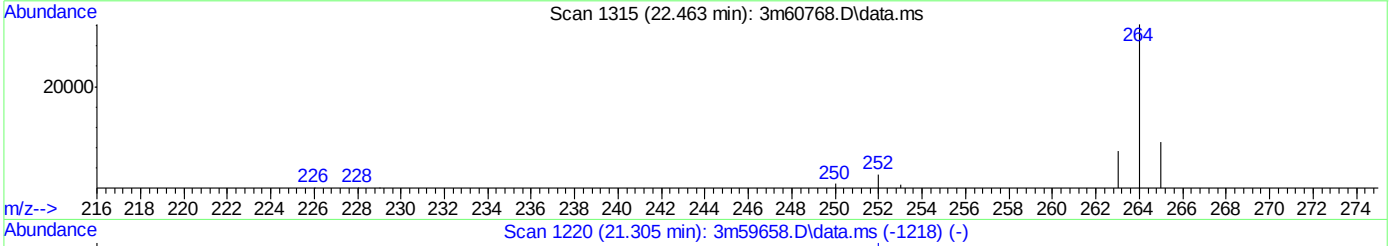
SGS ACCUTEST JC20098

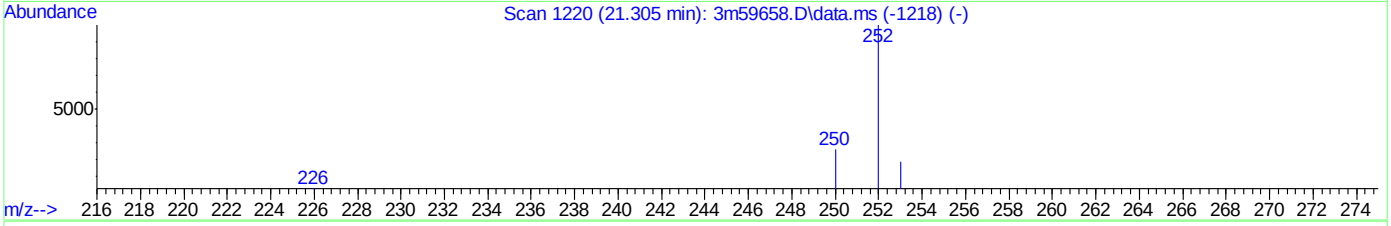
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60768.D
Acq On : 21 Apr 2016 5:17 pm
Operator : linseyk
Sample : ic2855-0.02
Misc : op93052a,e3m2855
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 22 08:28:31 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:28:25 2016
Response via : Initial Calibration







TIC: 3m60768.D\data.ms

(34) Benzo[a]pyrene (t)

22.463min (-0.000) 0.03ppm

response 7218

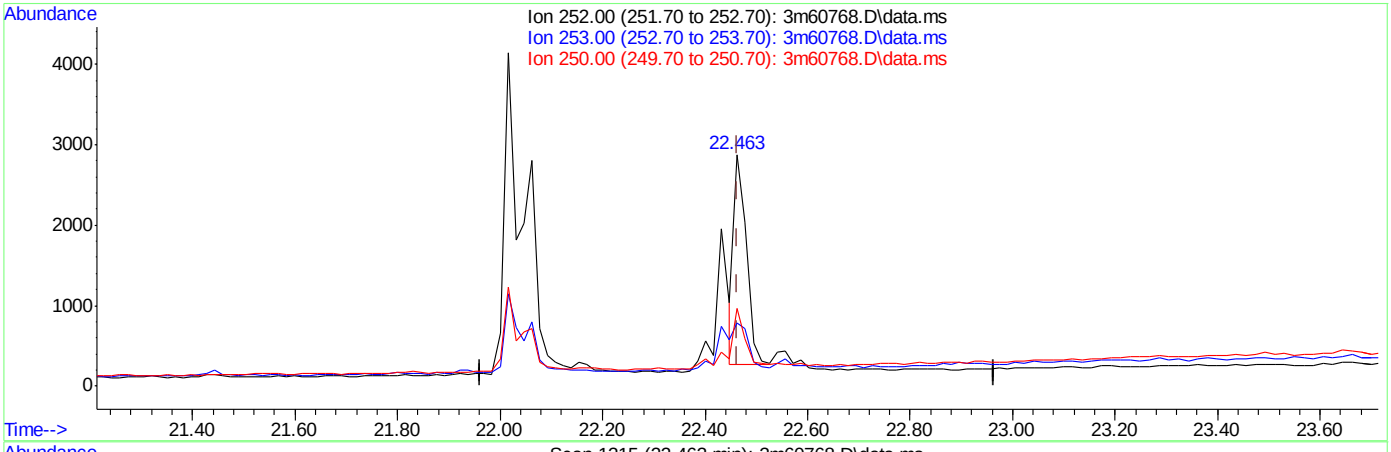
Ion	Exp%	Act%
252.00	100	100
253.00	18.80	20.93
250.00	26.10	27.47
0.00	0.00	0.00

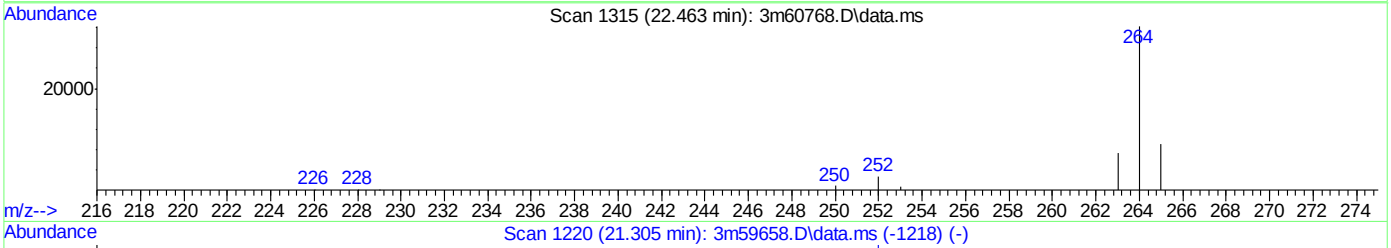
SGS ACCUTEST JC20098

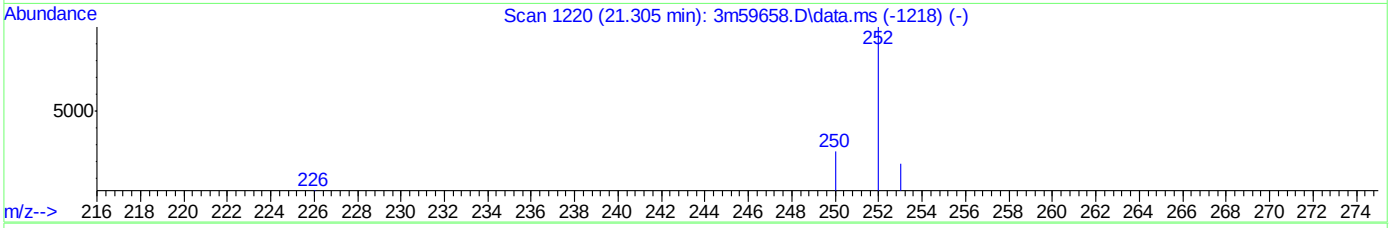
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60768.D
Acq On : 21 Apr 2016 5:17 pm
Operator : linseyk
Sample : ic2855-0.02
Misc : op93052a,e3m2855
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 22 08:28:31 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:28:25 2016
Response via : Initial Calibration







TIC: 3m60768.D\data.ms

(34) Benzo[a]pyrene (t)

22.463min (-0.000) 0.02ppm m

response 4349

Ion	Exp%	Act%
252.00	100	100
253.00	18.80	27.27
250.00	26.10	33.41
0.00	0.00	0.00

SGS ACCUTEST JC20098

3M60769.D

Manual Integrations APPROVED (compounds with "m" flag)

Nina Pandya 04/22/16 12:27

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60769.D
Acq On : 21 Apr 2016 5:49 pm
Operator : linseyk
Sample : ic2855-0.01
Misc : op93052a,e3m2855
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 22 08:30:24 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:30:05 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.640	150	341727	4.00	ppm	0.00
14) Fluorene-d10	13.644	176	510798	4.00	ppm	0.00
21) Fluoranthene-d10	17.843	212	894999	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.448	264	717706	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	4.515	112	7703	0.18	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.36%	
4) Phenol-d5	6.104	99	12728	0.18	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.36%	
7) Nitrobenzene-d5	7.726	82	11420	0.17	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.34%	
15) 2-Fluorobiphenyl	11.303	172	27514	0.19	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.38%	
20) 2,4,6-Tribromophenol	14.172	330	2174	0.13	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.26%	
28) Terphenyl-d14	18.647	244	28577	0.21	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.42%	
Target Compounds						Qvalue
2) 1,4-dioxane	2.305	88	176m	0.01	ppm	
5) Phenol	6.116	94	3362	0.04	ppm	# 69
6) bis(2-Chloroethyl)ether	6.285	93	566	0.01	ppm	89
8) Nitrobenzene	7.764	77	712	0.01	ppm	83
9) Naphthalene	9.139	128	1910	0.01	ppm	98
10) Hexachlorobutadiene	9.421	225	308	0.01	ppm	98
11) 2-Methylnaphthalene	10.517	141	971	0.01	ppm	94
12) 1-Methylnaphthalene	10.702	141	1726	0.01	ppm	95
13) Hexachlorocyclopentadiene	10.846	237	382	0.02	ppm	97
16) Acenaphthylene	12.293	152	1639	0.01	ppm	99
17) Acenaphthene	12.648	153	1117	0.01	ppm	98
18) 4,6-dinitro-2-methylph...	13.852	198	146	0.01	ppm	70
19) Fluorene	13.682	166	1465	0.01	ppm	99
22) Hexachlorobenzene	14.783	284	417	0.01	ppm	95
23) Pentachlorophenol	15.200	266	877	0.04	ppm	98
24) Phenanthrene	15.602	178	2267	0.01	ppm	98
25) Anthracene	15.711	178	1713	0.01	ppm	97
26) Fluoranthene	17.874	202	4045	0.02	ppm	99
27) Pyrene	18.261	202	2880	0.01	ppm	98
29) Benzo[a]anthracene	20.347	228	3441	0.02	ppm	98
30) Chrysene	20.408	228	4214	0.02	ppm	97
32) Benzo[b]fluoranthene	22.015	252	4562	0.02	ppm	88
33) Benzo[k]fluoranthene	22.062	252	1997	0.01	ppm	94
34) Benzo[a]pyrene	22.463	252	2699	0.01	ppm	86
35) Indeno[1,2,3-cd]pyrene	23.963	276	2125	0.01	ppm	100
36) Dibenz[a,h]anthracene	24.020	278	2112	0.01	ppm	100
37) Benzo[g,h,i]perylene	24.358	276	1927	0.01	ppm	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60769.D
Acq On : 21 Apr 2016 5:49 pm
Operator : linseyk
Sample : ic2855-0.01
Misc : op93052a,e3m2855
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 22 08:30:24 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:30:05 2016
Response via : Initial Calibration

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

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

7.6.34

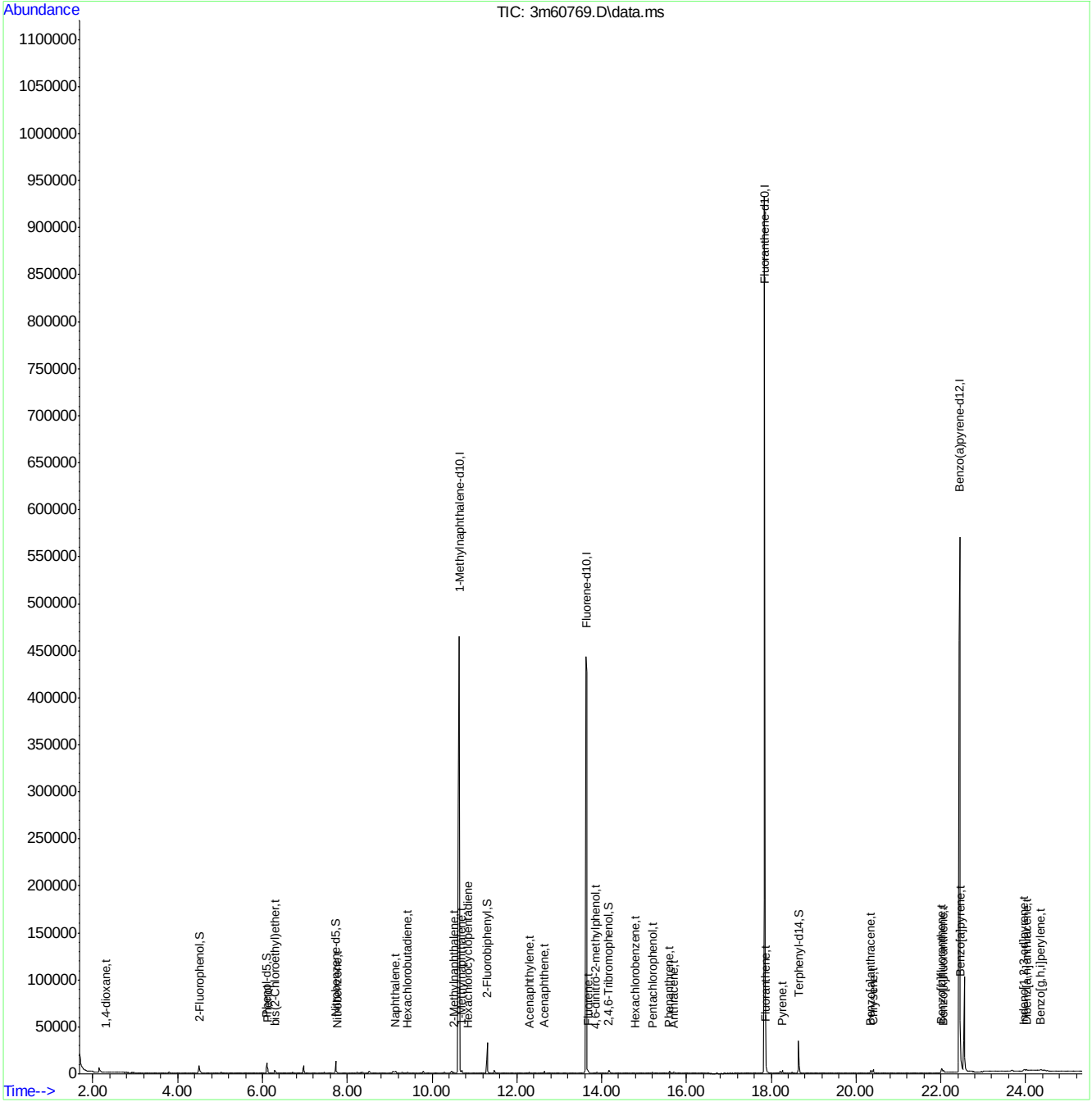
7

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60769.D
Acq On : 21 Apr 2016 5:49 pm
Operator : linseyk
Sample : ic2855-0.01
Misc : op93052a,e3m2855
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 22 08:30:24 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:30:05 2016
Response via : Initial Calibration



SGS ACCUTEST JC20098

Manual Integration Approval Summary

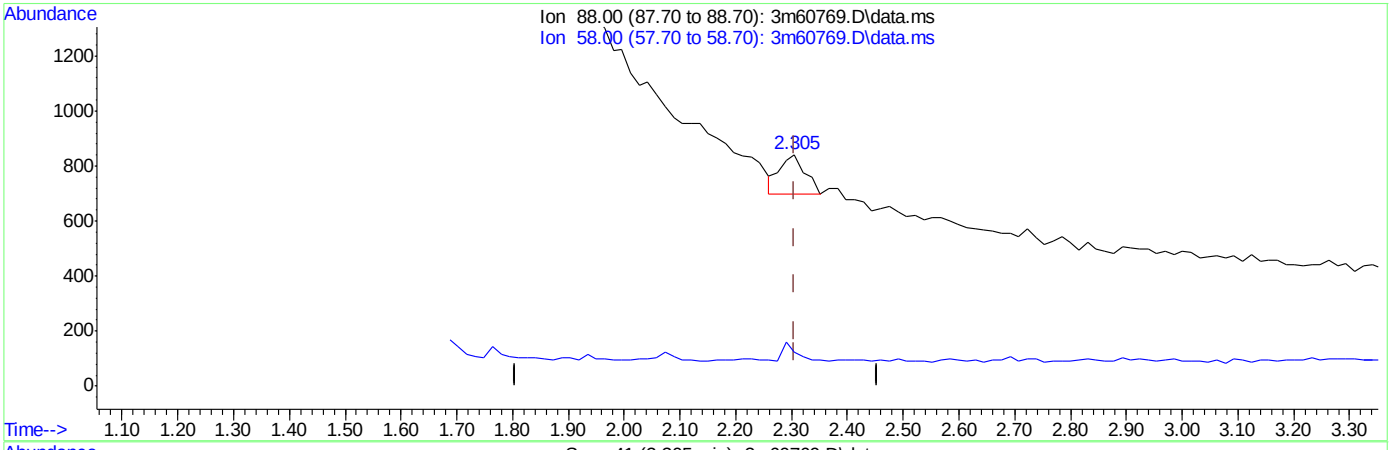
Sample Number:	E3M2855-IC2855	**Method:**	SW846 8270D BY SIM
Lab FileID:	3M60769.D	**Analyst approved:**	04/22/16 09:15 Linsey Kirschmann
Injection Time:	04/21/16 17:49	**Supervisor approved:**	04/22/16 12:27 Nina Pandya

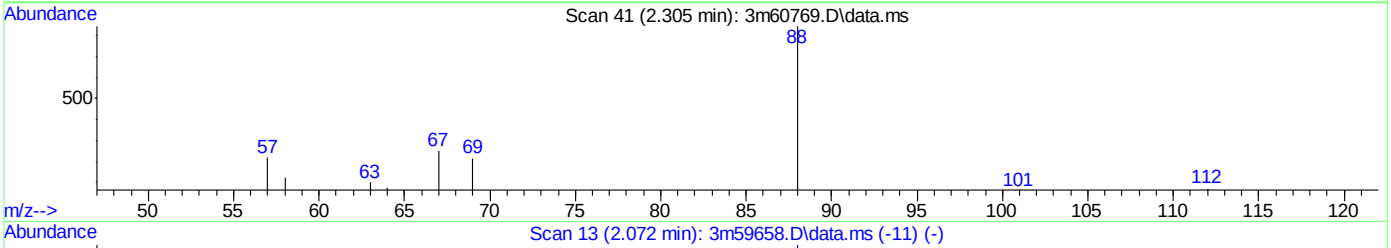
Parameter	CAS	Sig#	R.T. (min.)	Reason
1,4-Dioxane	123-91-1		2.31	Baseline ripple

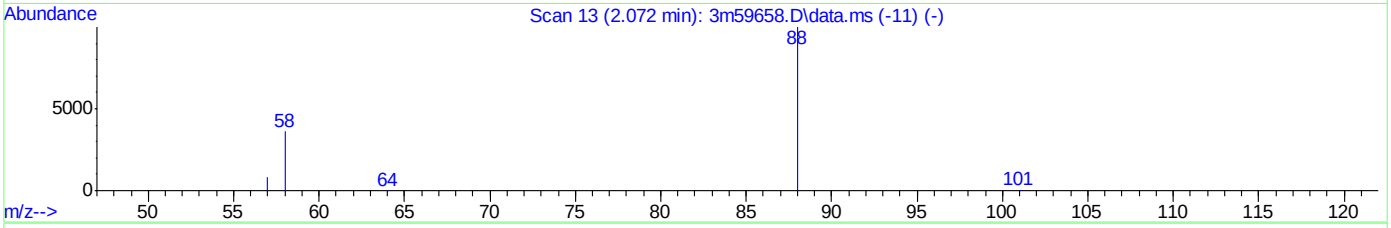
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60769.D
Acq On : 21 Apr 2016 5:49 pm
Operator : linseyk
Sample : ic2855-0.01
Misc : op93052a,e3m2855
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 22 08:30:11 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:30:05 2016
Response via : Initial Calibration







TIC: 3m60769.D\data.ms

(2) 1,4-dioxane (t)

2.305min (+0.000) 0.02ppm

response 450

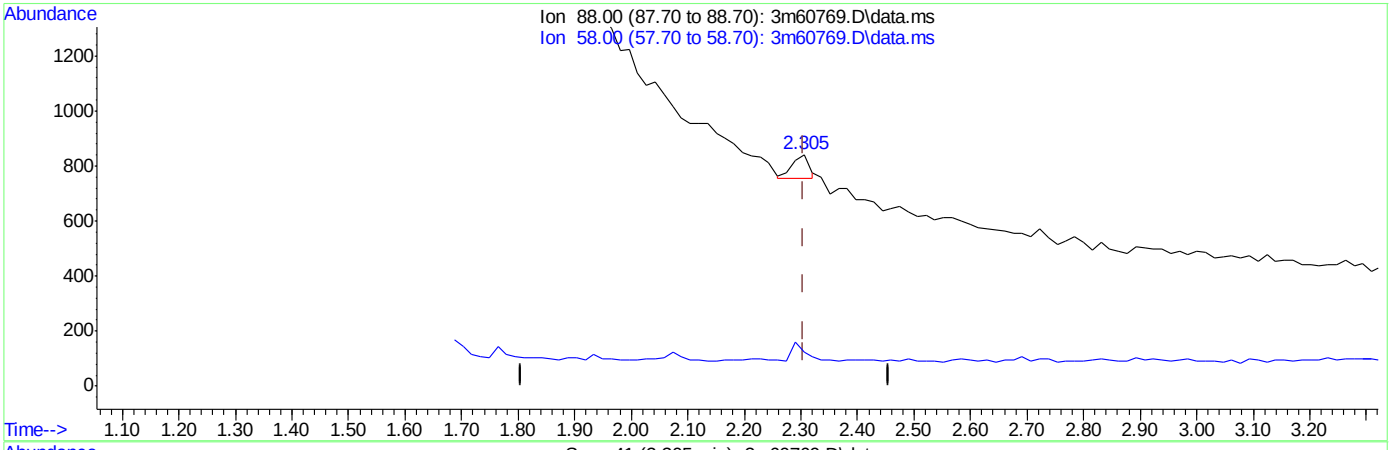
Ion	Exp%	Act%
88.00	100	100
58.00	32.40	25.45
0.00	0.00	0.00
0.00	0.00	0.00

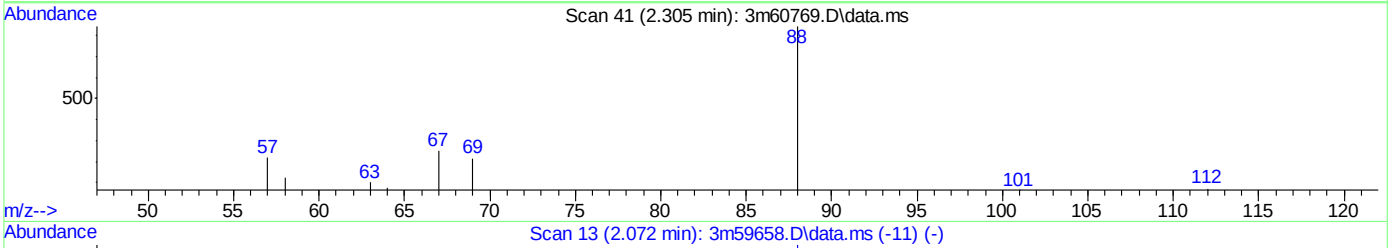
SGS ACCUTEST JC20098

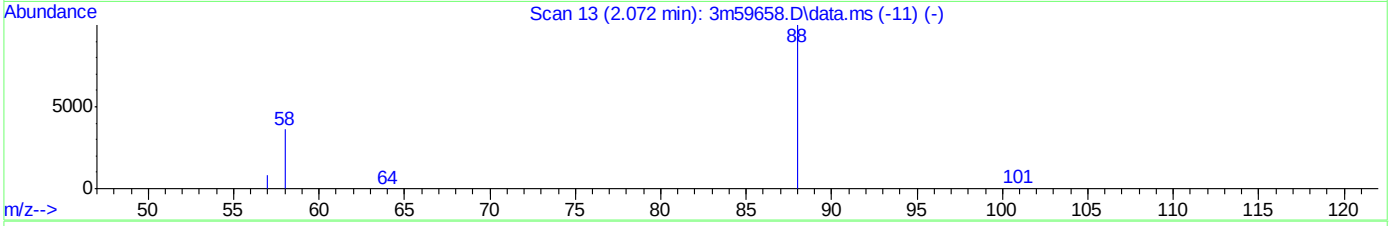
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60769.D
Acq On : 21 Apr 2016 5:49 pm
Operator : linseyk
Sample : ic2855-0.01
Misc : op93052a,e3m2855
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 22 08:30:11 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:30:05 2016
Response via : Initial Calibration







TIC: 3m60769.D\data.ms

(2) 1,4-dioxane (t)

2.305min (+0.000) 0.01ppm m

response 176

Ion	Exp%	Act%
88.00	100	100
58.00	32.40	14.85
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60770.D
Acq On : 21 Apr 2016 6:22 pm
Operator : linseyk
Sample : ic2855-5.0
Misc : op93052a,e3m2855
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 22 08:30:56 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:30:48 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.641	150	366417	4.00	ppm	0.00
14) Fluorene-d10	13.644	176	628480	4.00	ppm	0.00
21) Fluoranthene-d10	17.844	212	939162	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.448	264	756981	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	4.515	112	4214444	90.43	ppm	0.00
Spiked Amount 50.000			Recovery	=	180.86%	
4) Phenol-d5	6.128	99	7328789	95.76	ppm	0.02
Spiked Amount 50.000			Recovery	=	191.52%	
7) Nitrobenzene-d5	7.745	82	7395086	102.34	ppm	0.02
Spiked Amount 50.000			Recovery	=	204.68%	
15) 2-Fluorobiphenyl	11.319	172	14347827	81.47	ppm	0.02
Spiked Amount 50.000			Recovery	=	162.94%	
20) 2,4,6-Tribromophenol	14.191	330	1892615	94.39	ppm	0.02
Spiked Amount 50.000			Recovery	=	188.78%	
28) Terphenyl-d14	18.662	244	11761490	83.98	ppm	0.02
Spiked Amount 50.000			Recovery	=	167.96%	
Target Compounds						Qvalue
2) 1,4-dioxane	2.290	88	94789	4.85	ppm	75
5) Phenol	6.140	94	1983163	23.95	ppm #	79
6) bis(2-Chloroethyl)ether	6.298	93	266705	4.16	ppm #	60
8) Nitrobenzene	7.764	77	406472	5.38	ppm #	58
9) Naphthalene	9.139	128	1024731	5.04	ppm	98
10) Hexachlorobutadiene	9.421	225	174841	4.87	ppm	95
11) 2-Methylnaphthalene	10.517	141	553815	5.26	ppm	96
12) 1-Methylnaphthalene	10.702	141	647057	4.41	ppm	93
13) Hexachlorocyclopentadiene	10.846	237	345119	13.01	ppm	95
16) Acenaphthylene	12.293	152	1074573	4.94	ppm	99
17) Acenaphthene	12.648	153	680855	4.63	ppm	99
18) 4,6-dinitro-2-methylph...	13.852	198	689664	56.92	ppm	74
19) Fluorene	13.682	166	778408	4.36	ppm	94
22) Hexachlorobenzene	14.783	284	229525	5.21	ppm	94
23) Pentachlorophenol	15.201	266	786510	32.34	ppm	95
24) Phenanthrene	15.603	178	1190802	5.25	ppm	99
25) Anthracene	15.711	178	1181627	5.75	ppm	98
26) Fluoranthene	17.874	202	1318777	5.01	ppm	99
27) Pyrene	18.261	202	1382848	5.27	ppm	98
29) Benzo[a]anthracene	20.347	228	1195931	5.01	ppm	96
30) Chrysene	20.408	228	1263858	5.17	ppm	98
32) Benzo[b]fluoranthene	22.015	252	1201158	4.18	ppm	95
33) Benzo[k]fluoranthene	22.062	252	1191473	5.12	ppm	97
34) Benzo[a]pyrene	22.463	252	1113412	4.67	ppm	98
35) Indeno[1,2,3-cd]pyrene	23.982	276	1248948	5.29	ppm	89
36) Dibenz[a,h]anthracene	24.020	278	1051200	5.43	ppm	100
37) Benzo[g,h,i]perylene	24.358	276	1074162	5.23	ppm	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60770.D
Acq On : 21 Apr 2016 6:22 pm
Operator : linseyk
Sample : ic2855-5.0
Misc : op93052a,e3m2855
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 22 08:30:56 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:30:48 2016
Response via : Initial Calibration

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

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

7.6.35

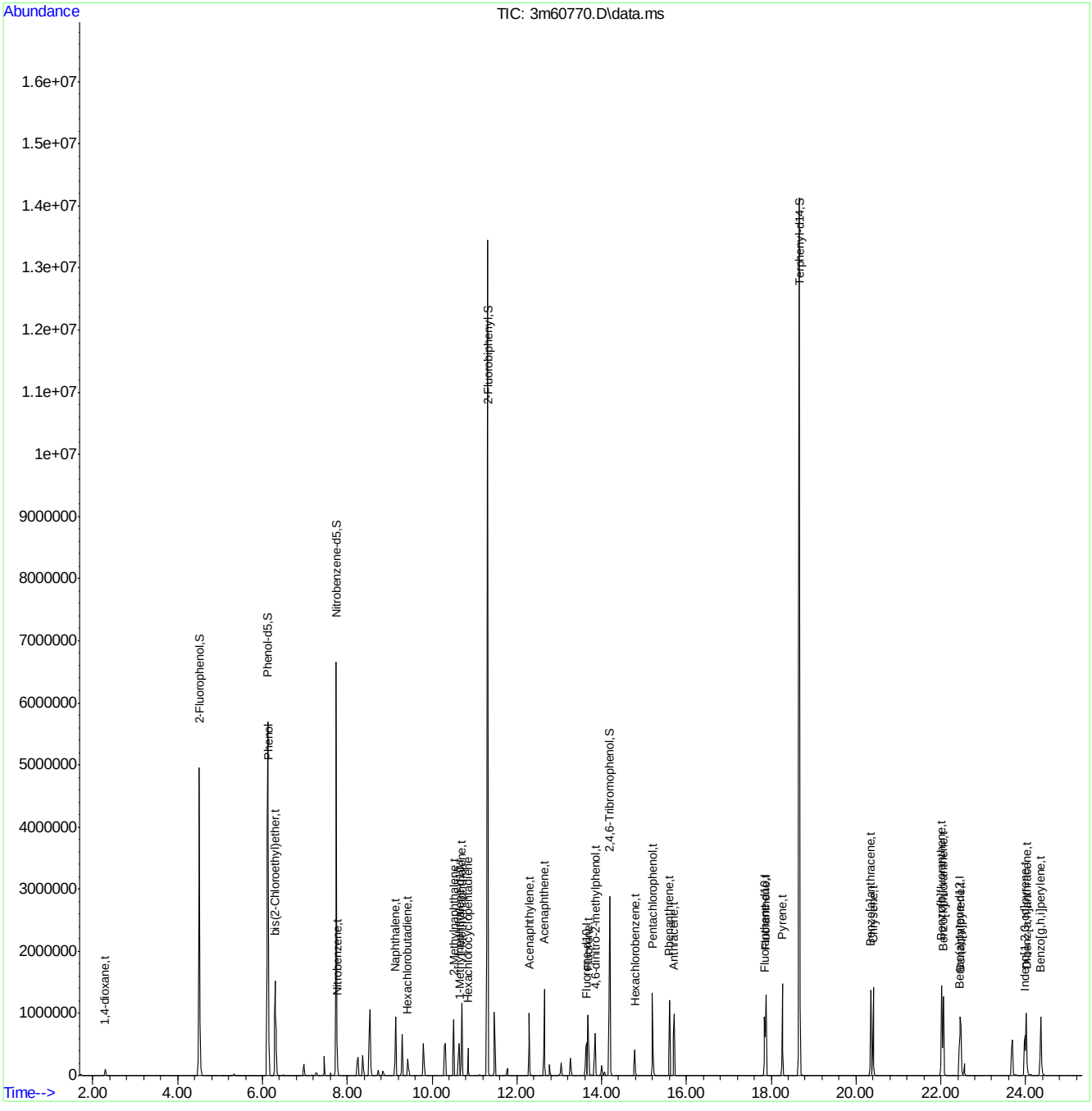
7

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60770.D
Acq On : 21 Apr 2016 6:22 pm
Operator : linseyk
Sample : ic2855-5.0
Misc : op93052a,e3m2855
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 22 08:30:56 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:30:48 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60771.D
Acq On : 21 Apr 2016 6:55 pm
Operator : linseyk
Sample : ic2855-2.5
Misc : op93052a,e3m2855
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 22 08:31:26 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:31:18 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.640	150	385250	4.00	ppm	0.00
14) Fluorene-d10	13.644	176	616747	4.00	ppm	0.00
21) Fluoranthene-d10	17.843	212	966990	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.448	264	773663	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	4.515	112	2363254	48.90	ppm	0.00
Spiked Amount 50.000			Recovery = 97.80%			
4) Phenol-d5	6.116	99	3871836	48.37	ppm	-0.01
Spiked Amount 50.000			Recovery = 96.74%			
7) Nitrobenzene-d5	7.726	82	3072767	40.29	ppm	-0.02
Spiked Amount 50.000			Recovery = 80.58%			
15) 2-Fluorobiphenyl	11.303	172	7301000	42.25	ppm	-0.02
Spiked Amount 50.000			Recovery = 84.50%			
20) 2,4,6-Tribromophenol	14.191	330	926725	47.63	ppm	0.00
Spiked Amount 50.000			Recovery = 95.26%			
28) Terphenyl-d14	18.662	244	6991573	49.82	ppm	0.00
Spiked Amount 50.000			Recovery = 99.64%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.289	88	48881	2.39	ppm #	59
5) Phenol	6.128	94	1024552	11.84	ppm #	67
6) bis(2-Chloroethyl)ether	6.285	93	142356	2.16	ppm	77
8) Nitrobenzene	7.764	77	205619	2.56	ppm	76
9) Naphthalene	9.138	128	535435	2.50	ppm	98
10) Hexachlorobutadiene	9.421	225	87273	2.32	ppm	94
11) 2-Methylnaphthalene	10.517	141	279805	2.51	ppm	94
12) 1-Methylnaphthalene	10.702	141	340057	2.24	ppm	91
13) Hexachlorocyclopentadiene	10.846	237	158162	5.40	ppm	93
16) Acenaphthylene	12.293	152	544103	2.55	ppm	98
17) Acenaphthene	12.648	153	350568	2.45	ppm	95
18) 4,6-dinitro-2-methylph...	13.851	198	297531	19.93	ppm	92
19) Fluorene	13.682	166	399367	2.31	ppm	96
22) Hexachlorobenzene	14.783	284	115675	2.53	ppm	95
23) Pentachlorophenol	15.200	266	400828	15.26	ppm	98
24) Phenanthrene	15.602	178	602735	2.56	ppm	99
25) Anthracene	15.711	178	589914	2.71	ppm	98
26) Fluoranthene	17.874	202	671708	2.48	ppm	99
27) Pyrene	18.261	202	685271	2.51	ppm	99
29) Benzo[a]anthracene	20.346	228	610065	2.48	ppm	98
30) Chrysene	20.408	228	651165	2.57	ppm	98
32) Benzo[b]fluoranthene	22.015	252	621501	2.16	ppm	98
33) Benzo[k]fluoranthene	22.061	252	586018	2.45	ppm	99
34) Benzo[a]pyrene	22.463	252	565533	2.34	ppm	99
35) Indeno[1,2,3-cd]pyrene	23.963	276	624468	2.57	ppm	97
36) Dibenz[a,h]anthracene	24.020	278	520048	2.60	ppm	100
37) Benzo[g,h,i]perylene	24.358	276	542545	2.57	ppm	100

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

```
Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60771.D
Acq On    : 21 Apr 2016   6:55 pm
Operator  : linseyk
Sample    : ic2855-2.5
Misc      : op93052a,e3m2855
ALS Vial  : 10   Sample Multiplier: 1

Quant Time: Apr 22 08:31:26 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title  : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:31:18 2016
Response via : Initial Calibration

        Compound                  R.T. QIon  Response  Conc Units Dev(Min)
 ---------------------------------------------------------------------------
 (#) = qualifier out of range (m) = manual integration (+) = signals summed
```

7.6.36

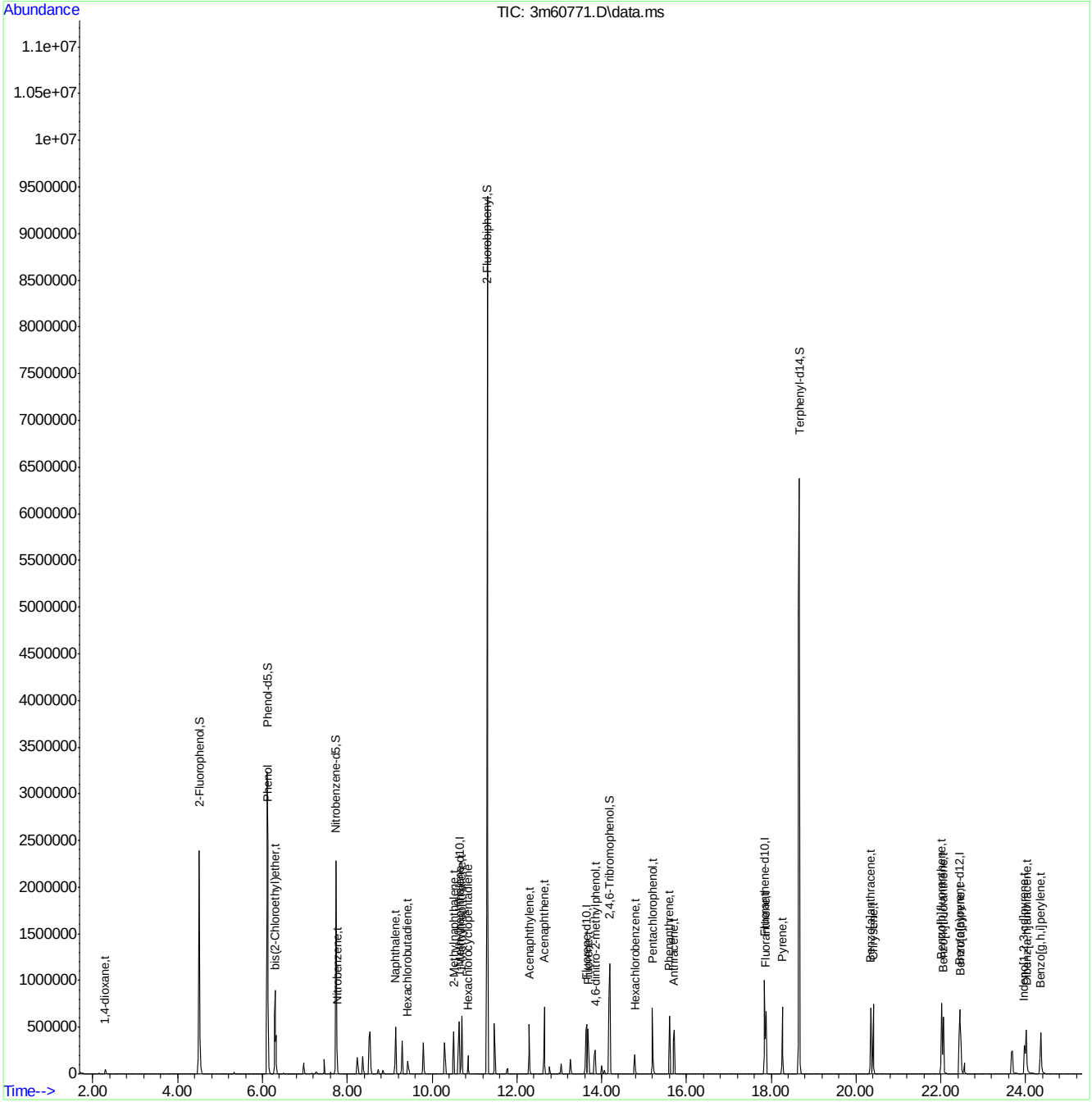
7

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60771.D
Acq On : 21 Apr 2016 6:55 pm
Operator : linseyk
Sample : ic2855-2.5
Misc : op93052a,e3m2855
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 22 08:31:26 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:31:18 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60772.D
Acq On : 21 Apr 2016 7:27 pm
Operator : linseyk
Sample : icv2855-1.0
Misc : op93052a,e3m2855
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 22 08:56:12 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:34:22 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Methylnaphthalene-d10	10.641	150	468880	4.00 ppm	0.00
14) Fluorene-d10	13.644	176	745589	4.00 ppm	0.00
21) Fluoranthene-d10	17.844	212	1195677	4.00 ppm	0.00
31) Benzo(a)pyrene-d12	22.448	264	940216	4.00 ppm	0.00
System Monitoring Compounds					
3) 2-Fluorophenol	0.000	112	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
4) Phenol-d5	0.000	99	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
7) Nitrobenzene-d5	0.000	82	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
15) 2-Fluorobiphenyl	0.000	172	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
20) 2,4,6-Tribromophenol	0.000	330	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
28) Terphenyl-d14	0.000	244	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
Target Compounds					Qvalue
5) Phenol	6.128	94	476638	4.56 ppm	99
18) 4,6-dinitro-2-methylph...	13.852	198	87949	3.84 ppm	95
23) Pentachlorophenol	15.201	266	168629	4.34 ppm	92

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

7.6.37

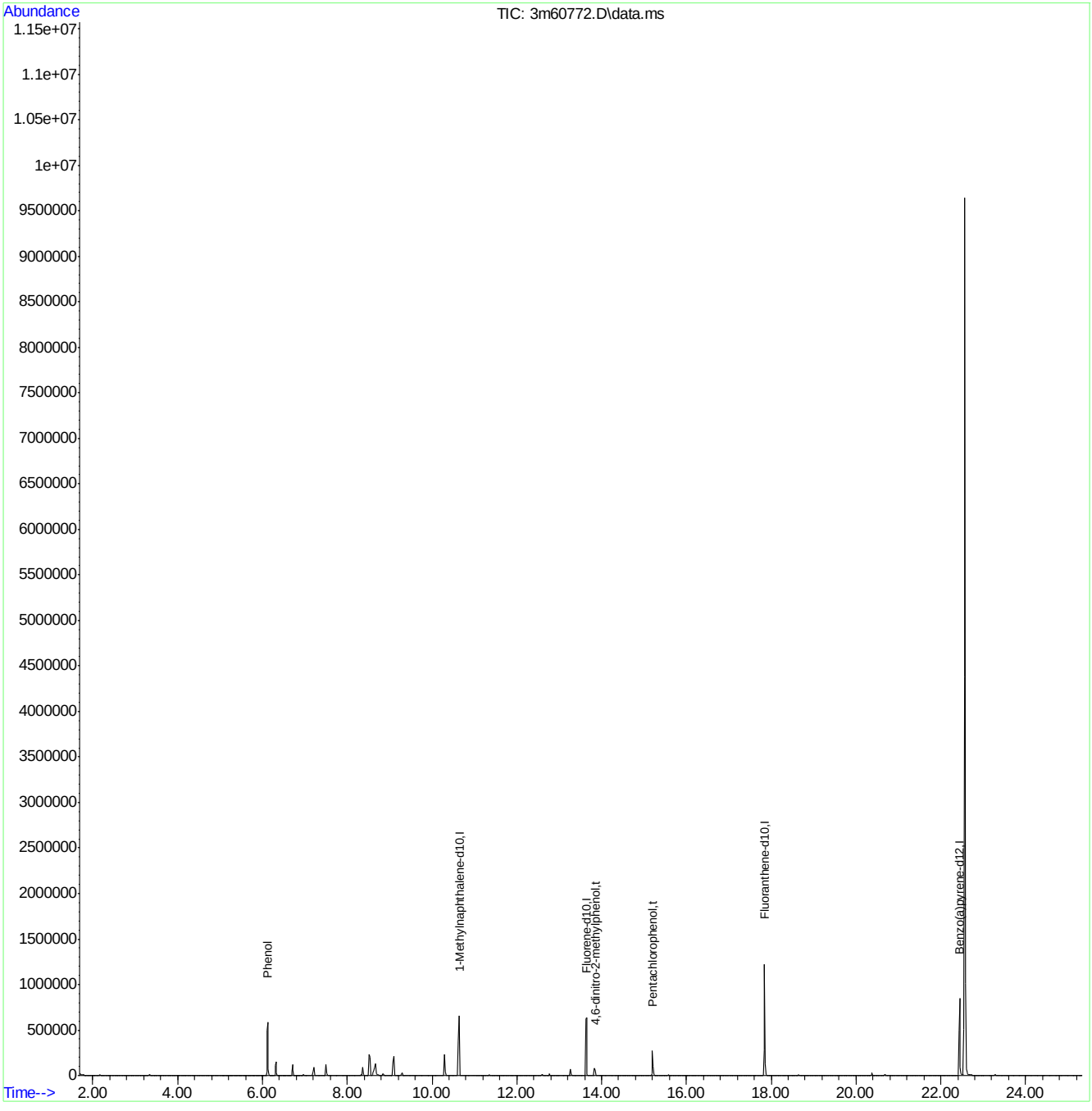
7

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60772.D
Acq On : 21 Apr 2016 7:27 pm
Operator : linseyk
Sample : icv2855-1.0
Misc : op93052a,e3m2855
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 22 08:56:12 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:34:22 2016
Response via : Initial Calibration



M3M2855SIM.M Fri Apr 22 08:56:16 2016 RPT1 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60773.D
Acq On : 21 Apr 2016 8:00 pm
Operator : linseyk
Sample : icv2855-1.0
Misc : op93052a,e3m2855
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 22 08:58:25 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:34:22 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Methylnaphthalene-d10	10.640	150	381667	4.00 ppm	0.00
14) Fluorene-d10	13.644	176	568016	4.00 ppm	0.00
21) Fluoranthene-d10	17.843	212	891736	4.00 ppm	0.00
31) Benzo(a)pyrene-d12	22.448	264	666840	4.00 ppm	0.00
System Monitoring Compounds					
3) 2-Fluorophenol	0.000	112	0	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
4) Phenol-d5	0.000	99	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
7) Nitrobenzene-d5	0.000	82	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
15) 2-Fluorobiphenyl	0.000	172	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
20) 2,4,6-Tribromophenol	0.000	330	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
28) Terphenyl-d14	0.000	244	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
Target Compounds					Qvalue
2) 1,4-dioxane	2.320	88	21008	1.07 ppm	93
6) bis(2-Chloroethyl)ether	6.285	93	64147	1.00 ppm	87
8) Nitrobenzene	7.764	77	65386	0.82 ppm	100
9) Naphthalene	9.138	128	240749	1.14 ppm	99
10) Hexachlorobutadiene	9.421	225	41080	1.11 ppm	99
11) 2-Methylnaphthalene	10.517	141	115129	1.04 ppm	98
16) Acenaphthylene	12.293	152	209375	1.06 ppm	99
17) Acenaphthene	12.648	153	152795	1.16 ppm	96
19) Fluorene	13.682	166	170302	1.08 ppm	100
22) Hexachlorobenzene	14.783	284	47590	1.13 ppm	96
24) Phenanthrene	15.602	178	253476	1.16 ppm	95
25) Anthracene	15.711	178	221984	1.15 ppm	98
26) Fluoranthene	17.874	202	279548	1.02 ppm	99
27) Pyrene	18.261	202	275135	1.08 ppm	98
29) Benzo[a]anthracene	20.362	228	271481	1.11 ppm	94
30) Chrysene	20.408	228	239361	1.02 ppm	94
32) Benzo[b]fluoranthene	22.015	252	207742	0.94 ppm	97
33) Benzo[k]fluoranthene	22.061	252	230502	1.12 ppm	98
34) Benzo[a]pyrene	22.463	252	199534	0.97 ppm	99
35) Indeno[1,2,3-cd]pyrene	23.963	276	218688	1.04 ppm	98
36) Dibenz[a,h]anthracene	24.020	278	173448	1.00 ppm	100
37) Benzo[g,h,i]perylene	24.358	276	191304	1.05 ppm	100

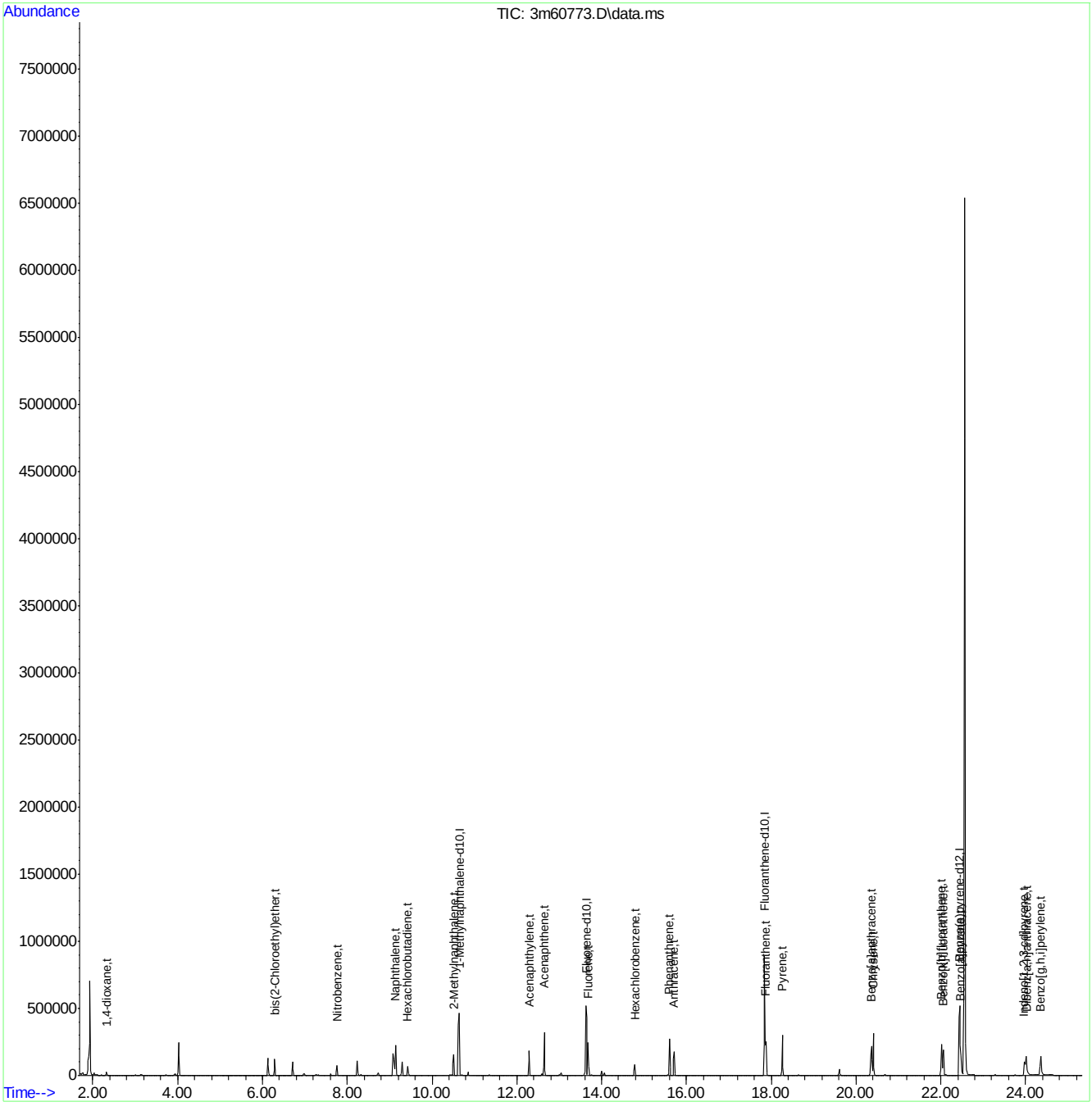
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60773.D
Acq On : 21 Apr 2016 8:00 pm
Operator : linseyk
Sample : icv2855-1.0
Misc : op93052a,e3m2855
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 22 08:58:25 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:34:22 2016
Response via : Initial Calibration



M3M2855SIM.M Fri Apr 22 08:58:28 2016 RPT1 Page: 2

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60774.D
Acq On : 21 Apr 2016 8:35 pm
Operator : linseyk
Sample : icv2855-1.0
Misc : op93052a,e3m2855
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 22 08:58:11 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:34:22 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Methylnaphthalene-d10	10.640	150	433101	4.00 ppm	0.00
14) Fluorene-d10	13.644	176	614407	4.00 ppm	0.00
21) Fluoranthene-d10	17.843	212	1087112	4.00 ppm	0.00
31) Benzo(a)pyrene-d12	22.448	264	854436	4.00 ppm	0.00
System Monitoring Compounds					
3) 2-Fluorophenol	0.000	112	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
4) Phenol-d5	0.000	99	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
7) Nitrobenzene-d5	0.000	82	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
15) 2-Fluorobiphenyl	0.000	172	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
20) 2,4,6-Tribromophenol	0.000	330	0	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
28) Terphenyl-d14	0.000	244	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
Target Compounds					Qvalue
2) 1,4-dioxane	2.289	88	25472	1.14 ppm	95
12) 1-Methylnaphthalene	10.702	141	161130	0.95 ppm	94
13) Hexachlorocyclopentadiene	10.845	237	34911	1.05 ppm	99

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

7.6.39

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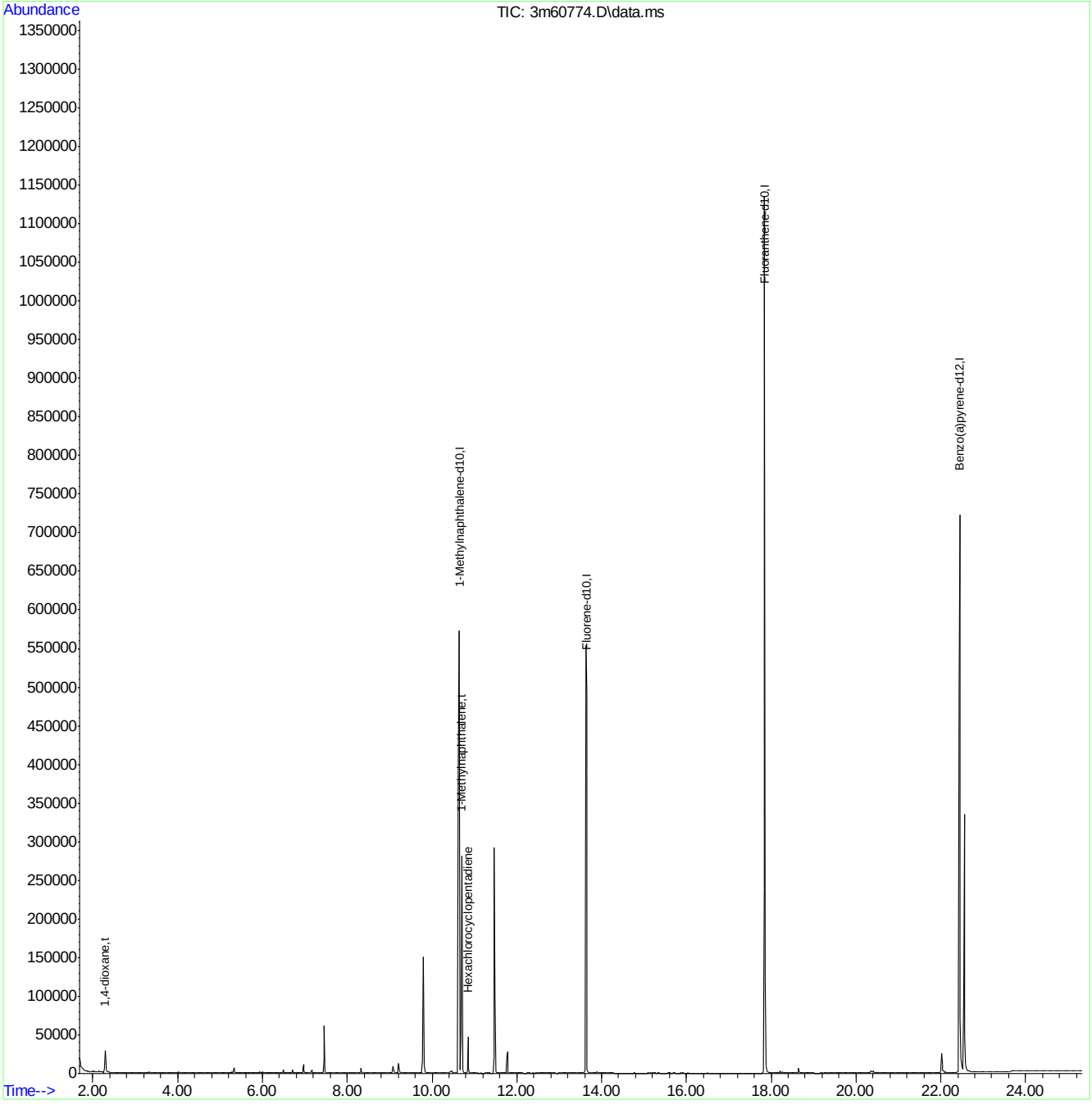
SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60774.D
Acq On : 21 Apr 2016 8:35 pm
Operator : linseyk
Sample : icv2855-1.0
Misc : op93052a,e3m2855
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 22 08:58:11 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:34:22 2016
Response via : Initial Calibration



M3M2855SIM.M Fri Apr 22 08:58:16 2016 RPT1 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2882\
Data File : 3m61295.D
Acq On : 13 May 2016 10:30 am
Operator : ashleyd
Sample : cc2855-1.0
Misc : op93756a,e3m2882
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 13 10:59:24 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 12 12:34:26 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1-Methylnaphthalene-d10	10.426	150	450824	4.00	ppm		0.06
14) Fluorene-d10	13.430	176	652470	4.00	ppm		0.06
21) Fluoranthene-d10	17.654	212	1113079	4.00	ppm		0.06
31) Benzo(a)pyrene-d12	22.258	264	1002008	4.00	ppm		0.06
System Monitoring Compounds							
3) 2-Fluorophenol	4.368	112	1043494	18.50	ppm		0.05
Spiked Amount 50.000			Recovery = 37.00%				
4) Phenol-d5	5.988	99	1633860	17.51	ppm		0.06
Spiked Amount 50.000			Recovery = 35.02%				
7) Nitrobenzene-d5	7.531	82	1313879	15.14	ppm		0.04
Spiked Amount 50.000			Recovery = 30.28%				
15) 2-Fluorobiphenyl	11.098	172	3258013	18.17	ppm		0.06
Spiked Amount 50.000			Recovery = 36.34%				
20) 2,4,6-Tribromophenol	13.976	330	370461	18.14	ppm		0.06
Spiked Amount 50.000			Recovery = 36.28%				
28) Terphenyl-d14	18.458	244	3168977	19.63	ppm		0.05
Spiked Amount 50.000			Recovery = 39.26%				
Target Compounds							Qvalue
2) 1,4-dioxane	2.143	88	20995	0.90	ppm		90
5) Phenol	6.012	94	426926	4.24	ppm	#	79
6) bis(2-Chloroethyl)ether	6.109	93	60109	0.79	ppm		63
8) Nitrobenzene	7.568	77	76329	0.81	ppm		89
9) Naphthalene	8.924	128	202174	0.81	ppm		99
10) Hexachlorobutadiene	9.225	225	36899	0.85	ppm		91
11) 2-Methylnaphthalene	10.303	141	134113	1.03	ppm		85
12) 1-Methylnaphthalene	10.488	141	133276	0.76	ppm	#	56
13) Hexachlorocyclopentadiene	10.631	237	42168	1.22	ppm	#	68
16) Acenaphthylene	12.088	152	213704	0.95	ppm		89
17) Acenaphthene	12.443	153	142260	0.94	ppm		75
18) 4,6-dinitro-2-methylph...	13.675	198	85613	4.18	ppm		79
19) Fluorene	13.486	166	171414	0.95	ppm		76
22) Hexachlorobenzene	14.563	284	47971	0.91	ppm		83
23) Pentachlorophenol	15.011	266	117861	3.30	ppm		75
24) Phenanthrene	15.398	178	249230	0.91	ppm		95
25) Anthracene	15.490	178	230527	0.96	ppm		90
26) Fluoranthene	17.670	202	288082	0.84	ppm		94
27) Pyrene	18.071	202	296968	0.93	ppm		92
29) Benzo[a]anthracene	20.157	228	273650	0.90	ppm		96
30) Chrysene	20.219	228	289781	0.99	ppm		99
32) Benzo[b]fluoranthene	21.826	252	334993	1.00	ppm		89
33) Benzo[k]fluoranthene	21.872	252	242325	0.79	ppm		93
34) Benzo[a]pyrene	22.289	252	267550	0.86	ppm		91
35) Indeno[1,2,3-cd]pyrene	23.749	276	319108	1.01	ppm		95
36) Dibenz[a,h]anthracene	23.806	278	266410	1.02	ppm		100
37) Benzo[g,h,i]perylene	24.125	276	282535	1.03	ppm		99

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2882\
Data File : 3m61295.D
Acq On : 13 May 2016 10:30 am
Operator : ashleyd
Sample : cc2855-1.0
Misc : op93756a,e3m2882
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 13 10:59:24 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 12 12:34:26 2016
Response via : Initial Calibration

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

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

7.6.40

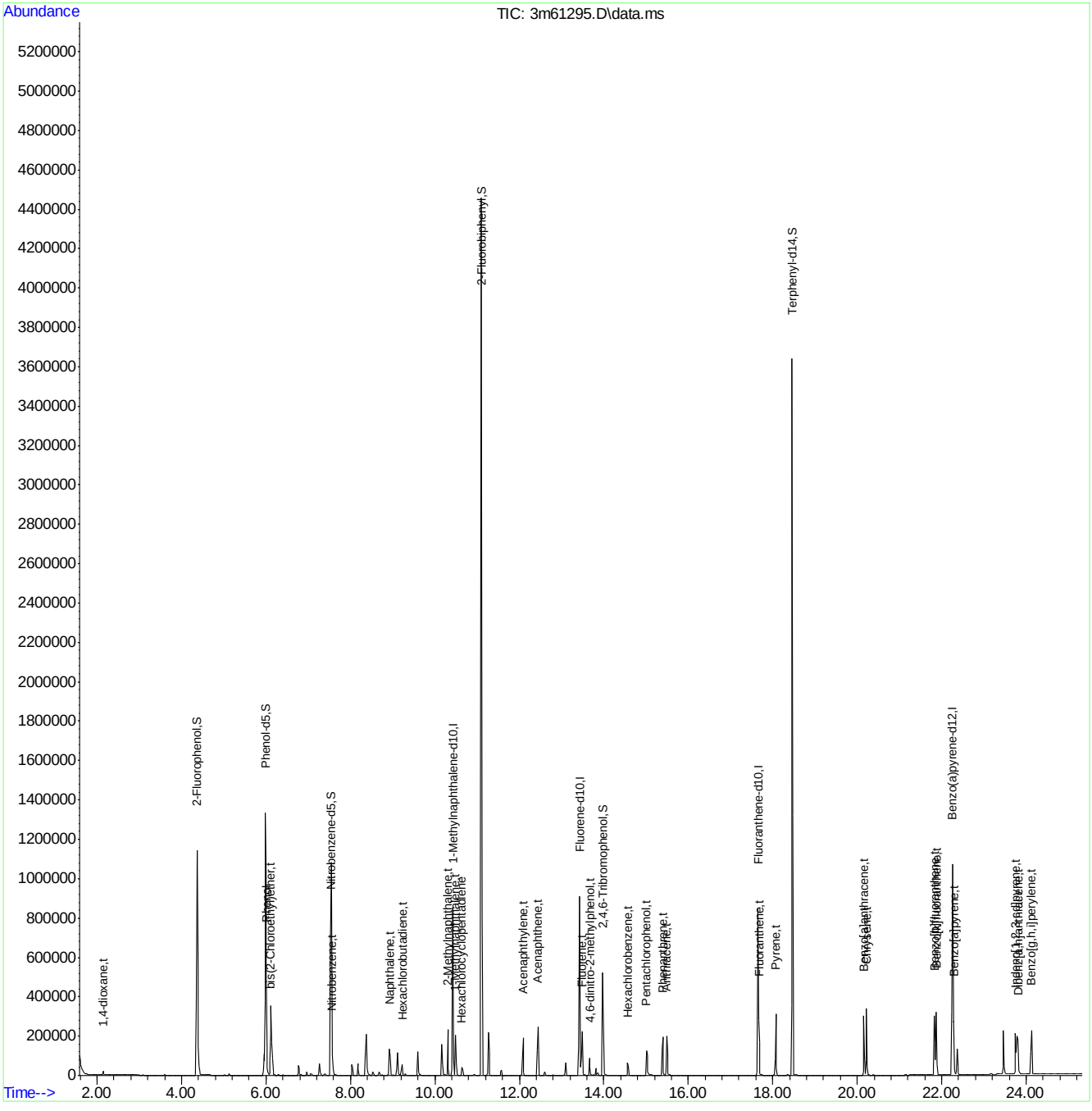
7

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2882\
Data File : 3m61295.D
Acq On : 13 May 2016 10:30 am
Operator : ashleyd
Sample : cc2855-1.0
Misc : op93756a,e3m2882
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 13 10:59:24 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu May 12 12:34:26 2016
Response via : Initial Calibration



SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2413\
Data File : 3p53002.D
Acq On : 29 Apr 2016 9:23 am
Operator : robertl1
Sample : ICC2413-50
Misc : op93185,e3p2413
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 03 11:19:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2413.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 29 11:27:54 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.847	152	59014	40.00	ppm	0.00
24) Naphthalene-d8	5.773	136	197072	40.00	ppm	0.00
47) Acenaphthene-d10	7.243	164	104496	40.00	ppm	0.00
69) Phenanthrene-d10	9.201	188	177917	40.00	ppm	0.00
83) Chrysene-d12	14.555	240	196324	40.00	ppm	0.00
91) Perylene-d12	17.609	264	173175	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.847	152	59014	40.00	ppm	0.00
103) Acenaphthene-d10a	7.243	164	104496	40.00	ppm	0.00
106) Chrysene-d12a	14.555	240	196324	40.00	ppm	0.00
108) Naphthalene-d8a	5.773	136	197072	40.00	ppm	0.00
110) Phenanthrene-d10a	9.201	188	177917	40.00	ppm	0.00
113) Chrysene-d12b	14.555	240	196324	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.847	112	100750	50.00	ppm	0.00
Spiked Amount 50.000			Recovery	=	100.00%	
8) Phenol-d5	4.564	99	127346	50.00	ppm	0.00
Spiked Amount 50.000			Recovery	=	100.00%	
25) Nitrobenzene-d5	5.254	82	99518	50.00	ppm	0.00
Spiked Amount 50.000			Recovery	=	100.00%	
51) 2-Fluorobiphenyl	6.602	172	168827	50.00	ppm	0.00
Spiked Amount 50.000			Recovery	=	100.00%	
73) 2,4,6-Tribromophenol	8.169	330	25843	50.00	ppm	0.00
Spiked Amount 50.000			Recovery	=	100.00%	
85) Terphenyl-d14	12.314	244	187553	50.00	ppm	0.00
Spiked Amount 50.000			Recovery	=	100.00%	
111) O-Terphenyl	0.000	230	0	0.00	ppm	
112) 1-Chlorooctadecane	0.000	57	0	0.00	ppm	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.430	88	44887	50.00	ppm	95
3) Pyridine	2.745	79	111630	50.00	ppm	85
4) N-Nitrosodimethylamine	2.702	42	55340	50.00	ppm #	43
6) Indene	5.034	116	155526	50.00	ppm	98
7) Cumene	4.254	105	243169	50.00	ppm	97
9) Phenol	4.574	94	128152	50.00	ppm	75
10) Aniline	4.601	93	141686	50.00	ppm	84
11) bis(2-Chloroethyl)ether	4.649	93	93644	50.00	ppm	86
12) 2-Chlorophenol	4.687	128	102290	50.00	ppm	97
13) Decane	4.724	43	106535	50.00	ppm	92
14) 1,3-Dichlorobenzene	4.804	146	112600	50.00	ppm	96
15) 1,4-Dichlorobenzene	4.858	146	115460	50.00	ppm	97
16) Benzyl alcohol	4.944	108	61014	50.00	ppm #	78
17) 1,2-Dichlorobenzene	4.970	146	105158	50.00	ppm	95
18) Acetophenone	5.141	105	123026	50.00	ppm	98
19) 2-Methylphenol	5.018	108	81910	50.00	ppm	98
20) 2,2'-oxybis(1-Chloropr...	5.045	45	129652	50.00	ppm #	64
21) 3&4-Methylphenol	5.131	108	87860	50.00	ppm	92
22) n-Nitroso-di-n-propyla...	5.141	70	69841	50.00	ppm	96

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2413\
Data File : 3p53002.D
Acq On : 29 Apr 2016 9:23 am
Operator : robertl1
Sample : ICC2413-50
Misc : op93185,e3p2413
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 03 11:19:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2413.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 29 11:27:54 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
23) Hexachloroethane	5.222	201	38152	50.00	ppm		83
26) Nitrobenzene	5.264	77	99580	50.00	ppm		96
27) Quinoline	6.040	129	159900	50.00	ppm		98
28) Isophorone	5.441	82	168637	50.00	ppm		88
29) 2-Nitrophenol	5.494	139	50347	50.00	ppm		73
30) 2,4-Dimethylphenol	5.516	107	83412	50.00	ppm		95
31) Benzoic acid	5.591	105	72821	50.00	ppm		92
32) bis(2-Chloroethoxy)met...	5.591	93	99992	50.00	ppm		94
33) 2,4-Dichlorophenol	5.666	162	74358	50.00	ppm		92
34) 2,6-Dichlorophenol	5.831	162	71238	50.00	ppm		96
35) 1,3,5-Trichlorobenzene	5.505	180	87153	50.00	ppm		99
36) 1,2,4-Trichlorobenzene	5.730	180	82353	50.00	ppm		100
37) 1,2,3-Trichlorobenzene	5.890	180	77379	50.00	ppm		97
38) Naphthalene	5.789	128	248345	50.00	ppm		99
39) 4-Chloroaniline	5.826	127	99995	50.00	ppm		92
40) 2,3-Dichloroaniline	6.532	161	86520	50.00	ppm		100
41) Caprolactam	6.093	113	25290	50.00	ppm		88
42) Hexachlorobutadiene	5.874	225	47018	50.00	ppm		83
43) 4-Chloro-3-methylphenol	6.174	107	69860	50.00	ppm		97
44) 2-Methylnaphthalene	6.302	141	138714	50.00	ppm		96
45) 1-Methylnaphthalene	6.382	141	141487	50.00	ppm		97
46) Dimethylnaphthalene	6.832	156	137774	50.00	ppm		98
48) Hexachlorocyclopentadiene	6.425	237	106492	100.00	ppm		97
49) 2,4,6-Trichlorophenol	6.527	196	51657	50.00	ppm		97
50) 2,4,5-Trichlorophenol	6.559	196	54794	50.00	ppm		96
52) 2-Chloronaphthalene	6.714	162	145903	50.00	ppm		96
53) Biphenyl	6.693	154	191228	50.00	ppm		98
54) 2-Nitroaniline	6.800	65	48404	50.00	ppm		91
55) Dimethylphthalate	6.960	163	162216	50.00	ppb		98
56) Acenaphthylene	7.104	152	240121	50.00	ppm		98
57) 2,6-Dinitrotoluene	7.024	165	38032	50.00	ppm		93
58) 3-Nitroaniline	7.190	138	42903	50.00	ppm		94
59) Acenaphthene	7.281	153	154024	50.00	ppm		99
60) 2,4-Dinitrophenol	7.297	184	47903	100.00	ppm	#	69
61) 4-Nitrophenol	7.345	109	24135	50.00	ppm	#	47
62) Dibenzofuran	7.463	168	207525	50.00	ppm		97
63) 2,4-Dinitrotoluene	7.441	165	52194	50.00	ppm	#	56
64) 2,3,4,6-Tetrachlorophenol	7.591	232	46188	50.00	ppm		96
65) Diethylphthalate	7.725	149	167487	50.00	ppm		97
66) Fluorene	7.864	166	168664	50.00	ppm		94
67) 4-Chlorophenyl-phenyle...	7.864	204	80405	50.00	ppm		98
68) 4-Nitroaniline	7.885	138	42524	50.00	ppm	#	79
70) 4,6-Dinitro-2-methylph...	7.917	198	32793	50.00	ppm		90
71) n-Nitrosodiphenylamine	8.014	169	115009	50.00	ppm		95
72) 1,2-Diphenylhydrazine	8.067	77	175903	50.00	ppm		93
74) 4-Bromophenyl-phenylether	8.527	248	48790	50.00	ppm		96
75) Hexachlorobenzene	8.597	284	51463	50.00	ppm		93
76) Pentachlorophenol	8.891	266	78726	100.00	ppm		95
77) Phenanthrene	9.238	178	243179	50.00	ppm		94
78) Anthracene	9.324	178	247105	50.00	ppm		100

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2413\
Data File : 3p53002.D
Acq On : 29 Apr 2016 9:23 am
Operator : robertl1
Sample : ICC2413-50
Misc : op93185,e3p2413
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 03 11:19:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2413.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 29 11:27:54 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
79)	Carbazole	9.602	167	222385	50.00	ppm	96
80)	Di-n-butylphthalate	10.324	149	310270	50.00	ppm	98
81)	Fluoranthene	11.426	202	290581	50.00	ppm	97
82)	Octadecane	9.094	57	111185	50.00	ppm	88
84)	Pyrene	11.881	202	301088	50.00	ppm	96
86)	Butylbenzylphthalate	13.507	149	146254	50.00	ppm	96
87)	Benzo[a]anthracene	14.534	228	279633	50.00	ppm	97
88)	3,3'-Dichlorobenzidine	14.571	252	97066	50.00	ppm	95
89)	Chrysene	14.614	228	263426	50.00	ppm	96
90)	bis(2-Ethylhexyl)phtha...	14.924	149	195454	50.00	ppm	95
92)	Di-n-octylphthalate	16.384	149	350777	50.00	ppm	96
93)	Benzo[b]fluoranthene	16.855	252	280122	50.00	ppm	96
94)	Benzo[k]fluoranthene	16.919	252	252562	50.00	ppm	99
95)	Benzo[a]pyrene	17.491	252	240349	50.00	ppm	89
96)	Indeno[1,2,3-cd]pyrene	19.561	276	233842	50.00	ppm	84
97)	Dibenz(a,h)acridine	19.198	279	207922	50.00	ppm	85
98)	Dibenz[a,h]anthracene	19.620	278	229430	50.00	ppm	95
99)	7,12-Dimethylbenz(a)an...	16.882	256	118753	50.00	ppm	86
100)	Benzo[g,h,i]perylene	19.995	276	234546	50.00	ppm	95

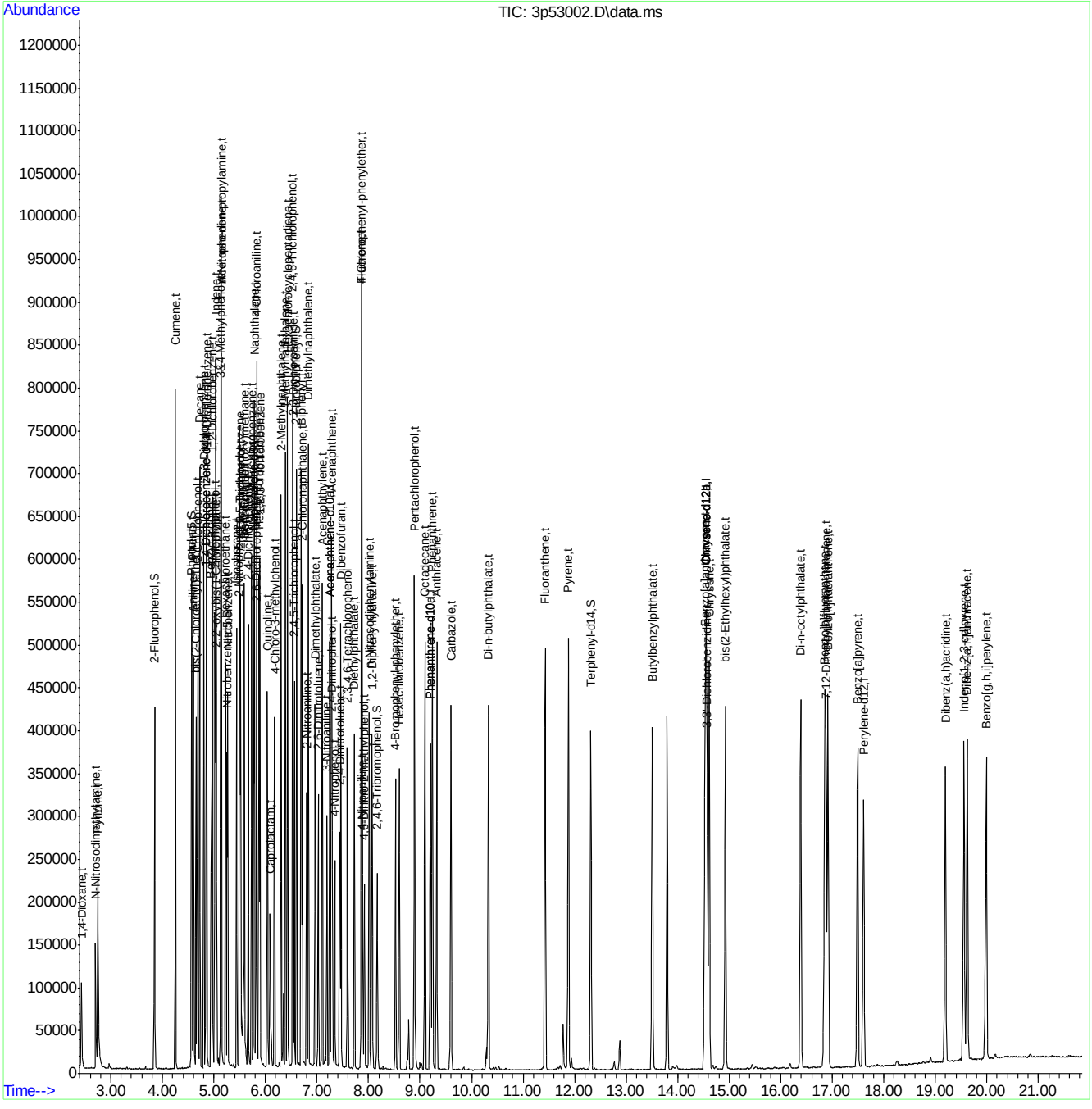
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2413\
Data File : 3p53002.D
Acq On : 29 Apr 2016 9:23 am
Operator : robertl1
Sample : ICC2413-50
Misc : op93185,e3p2413
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 03 11:19:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2413.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 29 11:27:54 2016
Response via : Initial Calibration



SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2413\
Data File : 3p53003.D
Acq On : 29 Apr 2016 9:52 am
Operator : robertl1
Sample : IC2413-25
Misc : op93185,e3p2413
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 29 11:30:45 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2413.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 29 11:27:54 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.845	152	63157	40.00	ppm	0.00
24) Naphthalene-d8	5.776	136	211717	40.00	ppm	0.00
47) Acenaphthene-d10	7.247	164	112757	40.00	ppm	0.00
69) Phenanthrene-d10	9.199	188	190341	40.00	ppm	0.00
83) Chrysene-d12	14.553	240	205881	40.00	ppm	0.00
91) Perylene-d12	17.607	264	182582	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.845	152	63157	40.00	ppm	0.00
103) Acenaphthene-d10a	7.247	164	112757	40.00	ppm	0.00
106) Chrysene-d12a	14.553	240	205881	40.00	ppm	0.00
108) Naphthalene-d8a	5.776	136	211717	40.00	ppm	0.00
110) Phenanthrene-d10a	9.199	188	190341	40.00	ppm	0.00
113) Chrysene-d12b	14.553	240	205881	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.845	112	52274	24.24	ppm	0.00
Spiked Amount 50.000			Recovery = 48.48%			
8) Phenol-d5	4.562	99	63859	23.43	ppm	0.00
Spiked Amount 50.000			Recovery = 46.86%			
25) Nitrobenzene-d5	5.252	82	52459	24.53	ppm	0.00
Spiked Amount 50.000			Recovery = 49.06%			
51) 2-Fluorobiphenyl	6.599	172	89328	24.52	ppm	0.00
Spiked Amount 50.000			Recovery = 49.04%			
73) 2,4,6-Tribromophenol	8.167	330	14216	25.71	ppm	0.00
Spiked Amount 50.000			Recovery = 51.42%			
85) Terphenyl-d14	12.317	244	97917	24.89	ppm	0.00
Spiked Amount 50.000			Recovery = 49.78%			
111) O-Terphenyl	0.000	230	0	0.00	ppm	
112) 1-Chlorooctadecane	0.000	57	0	0.00	ppm	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.427	88	23244	24.19	ppm	89
3) Pyridine	2.743	79	56452	23.63	ppm	85
4) N-Nitrosodimethylamine	2.706	42	26579	22.44	ppm #	38
6) Indene	5.038	116	82597	24.81	ppm	98
7) Cumene	4.251	105	127824	24.56	ppm	97
9) Phenol	4.572	94	65429	23.85	ppm	75
10) Aniline	4.599	93	74649	24.62	ppm	84
11) bis(2-Chloroethyl)ether	4.647	93	48364	24.13	ppm	87
12) 2-Chlorophenol	4.690	128	53672	24.51	ppm	96
13) Decane	4.722	43	56352	24.71	ppm	93
14) 1,3-Dichlorobenzene	4.802	146	59066	24.51	ppm	99
15) 1,4-Dichlorobenzene	4.861	146	60690	24.56	ppm	99
16) Benzyl alcohol	4.941	108	32456	24.85	ppm #	75
17) 1,2-Dichlorobenzene	4.968	146	55834	24.81	ppm	93
18) Acetophenone	5.139	105	64541	24.51	ppm	98
19) 2-Methylphenol	5.016	108	43796	24.98	ppm	97
20) 2,2'-oxybis(1-Chloropr...	5.043	45	68705	24.76	ppm #	63
21) 3&4-Methylphenol	5.129	108	45890	24.40	ppm	90
22) n-Nitroso-di-n-propyla...	5.139	70	36934	24.71	ppm	98

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2413\
Data File : 3p53003.D
Acq On : 29 Apr 2016 9:52 am
Operator : robertl1
Sample : IC2413-25
Misc : op93185,e3p2413
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 29 11:30:45 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2413.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 29 11:27:54 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
23) Hexachloroethane	5.219	201	20698	25.35	ppm	#	78
26) Nitrobenzene	5.262	77	52707	24.63	ppm		96
27) Quinoline	6.032	129	84554	24.61	ppm		99
28) Isophorone	5.439	82	88114	24.32	ppm		88
29) 2-Nitrophenol	5.492	139	26488	24.49	ppm		69
30) 2,4-Dimethylphenol	5.514	107	44447	24.80	ppm		94
31) Benzoic acid	5.572	105	36122	23.09	ppm		89
32) bis(2-Chloroethoxy)met...	5.588	93	53196	24.76	ppm		93
33) 2,4-Dichlorophenol	5.663	162	39561	24.76	ppm		93
34) 2,6-Dichlorophenol	5.829	162	39074	25.53	ppm		96
35) 1,3,5-Trichlorobenzene	5.503	180	47921	25.59	ppm		97
36) 1,2,4-Trichlorobenzene	5.728	180	44989	25.43	ppm		98
37) 1,2,3-Trichlorobenzene	5.893	180	43511	26.17	ppm		95
38) Naphthalene	5.792	128	132311	24.80	ppm		99
39) 4-Chloroaniline	5.824	127	54984	25.59	ppm		95
40) 2,3-Dichloroaniline	6.530	161	46857	25.21	ppm		99
41) Caprolactam	6.075	113	13402	24.66	ppm		88
42) Hexachlorobutadiene	5.872	225	25310	25.05	ppm		85
43) 4-Chloro-3-methylphenol	6.166	107	37194	24.78	ppm		94
44) 2-Methylnaphthalene	6.305	141	74158	24.88	ppm		95
45) 1-Methylnaphthalene	6.385	141	76110	25.04	ppm		95
46) Dimethylnaphthalene	6.829	156	73704	24.90	ppm		100
48) Hexachlorocyclopentadiene	6.428	237	56276	48.97	ppm		99
49) 2,4,6-Trichlorophenol	6.525	196	27675	24.82	ppm		95
50) 2,4,5-Trichlorophenol	6.557	196	29595	25.03	ppm		95
52) 2-Chloronaphthalene	6.712	162	80544	25.58	ppm		95
53) Biphenyl	6.690	154	101254	24.54	ppm		96
54) 2-Nitroaniline	6.797	65	25504	24.41	ppm		86
55) Dimethylphthalate	6.963	163	87481	24.99	ppb		97
56) Acenaphthylene	7.102	152	127467	24.60	ppm		98
57) 2,6-Dinitrotoluene	7.022	165	20634	25.14	ppm		91
58) 3-Nitroaniline	7.188	138	23264	25.13	ppm		92
59) Acenaphthene	7.279	153	82826	24.92	ppm		98
60) 2,4-Dinitrophenol	7.295	184	22933	44.37	ppm	#	54
61) 4-Nitrophenol	7.343	109	12896	24.76	ppm	#	51
62) Dibenzofuran	7.466	168	110267	24.62	ppm		96
63) 2,4-Dinitrotoluene	7.439	165	27687	24.58	ppm	#	54
64) 2,3,4,6-Tetrachlorophenol	7.594	232	24166	24.24	ppm		90
65) Diethylphthalate	7.723	149	88823	24.57	ppm		97
66) Fluorene	7.867	166	90312	24.81	ppm		96
67) 4-Chlorophenyl-phenyle...	7.867	204	42527	24.51	ppm		98
68) 4-Nitroaniline	7.878	138	23235	25.32	ppm	#	76
70) 4,6-Dinitro-2-methylph...	7.915	198	16954	24.16	ppm		88
71) n-Nitrosodiphenylamine	8.011	169	60354	24.53	ppm		95
72) 1,2-Diphenylhydrazine	8.065	77	92865	24.67	ppm		94
74) 4-Bromophenyl-phenylether	8.525	248	25633	24.55	ppm		97
75) Hexachlorobenzene	8.594	284	28097	25.52	ppm		90
76) Pentachlorophenol	8.889	266	40623	48.23	ppm		95
77) Phenanthrene	9.236	178	129370	24.86	ppm		95
78) Anthracene	9.322	178	130068	24.60	ppm		99

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2413\
Data File : 3p53003.D
Acq On : 29 Apr 2016 9:52 am
Operator : robertl1
Sample : IC2413-25
Misc : op93185,e3p2413
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 29 11:30:45 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2413.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 29 11:27:54 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
79)	Carbazole	9.600	167	118541	24.91	ppm	97
80)	Di-n-butylphthalate	10.327	149	158266	23.84	ppm	98
81)	Fluoranthene	11.424	202	148222	23.84	ppm	98
82)	Octadecane	9.092	57	58430	24.56	ppm	88
84)	Pyrene	11.879	202	157703	24.97	ppm	96
86)	Butylbenzylphthalate	13.504	149	74152	24.17	ppm	95
87)	Benzo[a]anthracene	14.526	228	146350	24.95	ppm	96
88)	3,3'-Dichlorobenzidine	14.569	252	50780	24.94	ppm	96
89)	Chrysene	14.606	228	138425	25.05	ppm	96
90)	bis(2-Ethylhexyl)phtha...	14.922	149	100863	24.60	ppm	96
92)	Di-n-octylphthalate	16.382	149	182642	24.69	ppm	96
93)	Benzo[b]fluoranthene	16.847	252	144579	24.48	ppm	97
94)	Benzo[k]fluoranthene	16.912	252	135213	25.39	ppm	99
95)	Benzo[a]pyrene	17.484	252	125994	24.86	ppm	88
96)	Indeno[1,2,3-cd]pyrene	19.548	276	121136	24.57	ppm	78
97)	Dibenz(a,h)acridine	19.190	279	106320	24.25	ppm	86
98)	Dibenz[a,h]anthracene	19.613	278	119576	24.72	ppm	95
99)	7,12-Dimethylbenz(a)an...	16.869	256	61658	24.62	ppm	88
100)	Benzo[g,h,i]perylene	19.982	276	125887	25.45	ppm	96

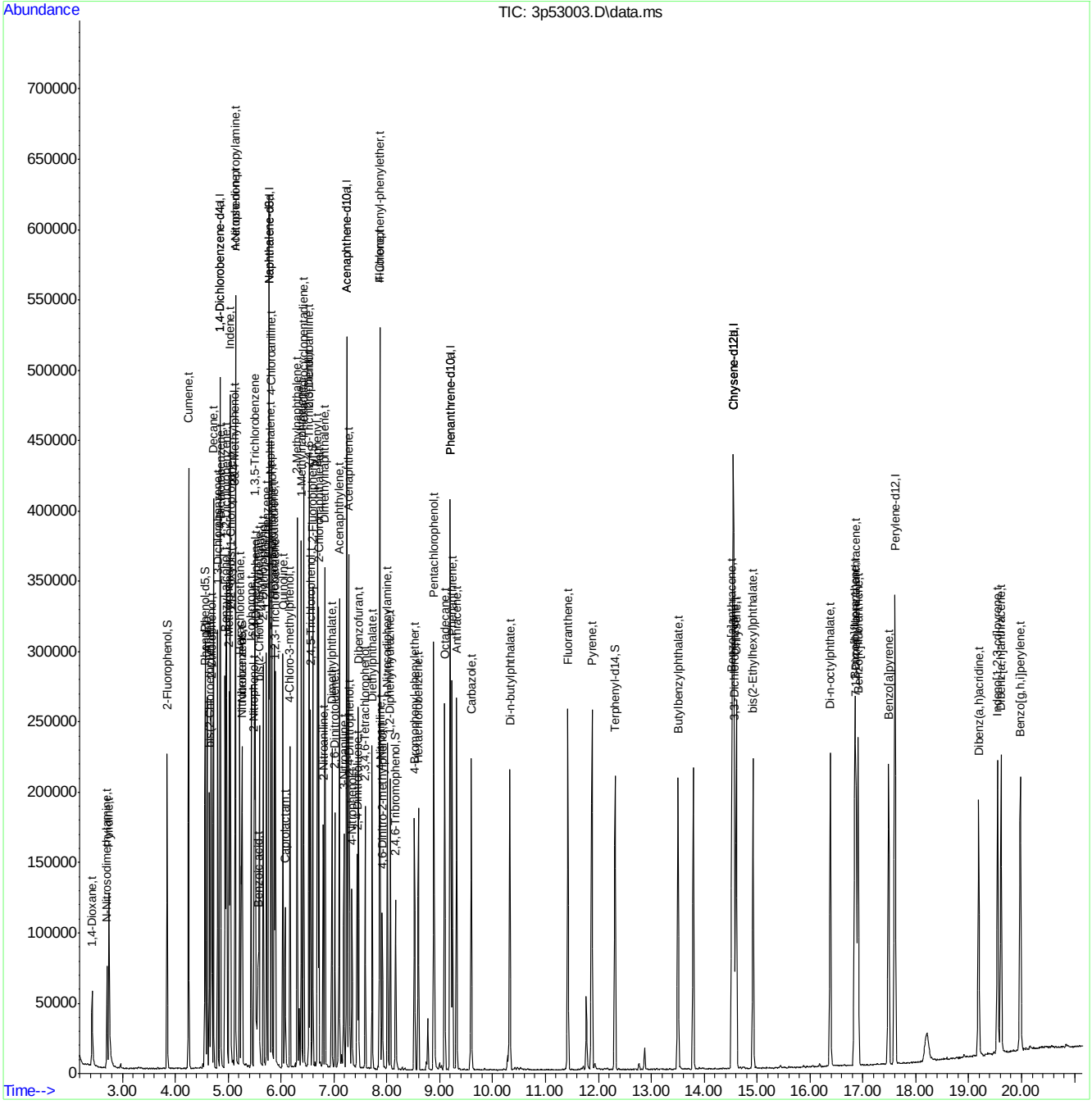
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2413\
Data File : 3p53003.D
Acq On : 29 Apr 2016 9:52 am
Operator : robertl1
Sample : IC2413-25
Misc : op93185,e3p2413
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 29 11:30:45 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2413.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 29 11:27:54 2016
Response via : Initial Calibration



SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2413\
Data File : 3p53004.D
Acq On : 29 Apr 2016 10:19 am
Operator : robertl1
Sample : IC2413-1
Misc : op93185,e3p2413
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 29 11:34:58 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2413.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 29 11:31:14 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.845	152	67244	40.00	ppm	0.00
24) Naphthalene-d8	5.770	136	240326	40.00	ppm	0.00
47) Acenaphthene-d10	7.241	164	136449	40.00	ppm	0.00
69) Phenanthrene-d10	9.193	188	227981	40.00	ppm	0.00
83) Chrysene-d12	14.542	240	234516	40.00	ppm	-0.01
91) Perylene-d12	17.602	264	211445	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.845	152	67244	40.00	ppm	0.00
103) Acenaphthene-d10a	7.241	164	136449	40.00	ppm	0.00
106) Chrysene-d12a	14.542	240	234516	40.00	ppm	-0.01
108) Naphthalene-d8a	5.770	136	240326	40.00	ppm	0.00
110) Phenanthrene-d10a	9.193	188	227981	40.00	ppm	0.00
113) Chrysene-d12b	14.542	240	234516	40.00	ppm	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	3.845	112	2285	1.01	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.02%	
8) Phenol-d5	4.556	99	3058	1.09	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.18%	
25) Nitrobenzene-d5	5.246	82	2560	1.06	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.12%	
51) 2-Fluorobiphenyl	6.599	172	5019	1.15	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.30%	
73) 2,4,6-Tribromophenol	8.161	330	676	1.01	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.02%	
85) Terphenyl-d14	12.306	244	5094	1.14	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.28%	
111) O-Terphenyl	0.000	230	0	0.00	ppm	
112) 1-Chlorooctadecane	0.000	57	0d	0.00	ppm	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.433	88	1179	1.17	ppm	92
3) Pyridine	2.780	79	2257	0.91	ppm	92
4) N-Nitrosodimethylamine	2.716	42	1592	1.33	ppm #	60
6) Indene	5.032	116	4206	1.19	ppm	97
7) Cumene	4.251	105	5825	1.06	ppm	95
9) Phenol	4.567	94	3212	1.13	ppm	73
10) Aniline	4.599	93	3762	1.17	ppm	88
11) bis(2-Chloroethyl)ether	4.647	93	2404	1.15	ppm	85
12) 2-Chlorophenol	4.685	128	2465	1.07	ppm	95
13) Decane	4.722	43	2753	1.14	ppm	93
14) 1,3-Dichlorobenzene	4.802	146	2951	1.16	ppm	91
15) 1,4-Dichlorobenzene	4.861	146	3067	1.18	ppm	98
16) Benzyl alcohol	4.941	108	1540	1.11	ppm #	71
17) 1,2-Dichlorobenzene	4.968	146	2679	1.12	ppm	95
18) Acetophenone	5.134	105	3309	1.19	ppm	90
19) 2-Methylphenol	5.016	108	2171	1.16	ppm	91
20) 2,2'-oxybis(1-Chloropr...	5.043	45	3802	1.29	ppm #	64
21) 3&4-Methylphenol	5.123	108	2349	1.19	ppm	93
22) n-Nitroso-di-n-propyla...	5.134	70	2159	1.36	ppm	91

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2413\
Data File : 3p53004.D
Acq On : 29 Apr 2016 10:19 am
Operator : robertl1
Sample : IC2413-1
Misc : op93185,e3p2413
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 29 11:34:58 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2413.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 29 11:31:14 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
23) Hexachloroethane	5.219	201	1026	1.17	ppm	#	79
26) Nitrobenzene	5.262	77	2767	1.15	ppm		91
27) Quinoline	6.027	129	4485	1.16	ppm		99
28) Isophorone	5.433	82	4568	1.13	ppm		91
29) 2-Nitrophenol	5.492	139	1300	1.07	ppm		75
30) 2,4-Dimethylphenol	5.514	107	2373	1.17	ppm		88
31) Benzoic acid	5.530	105	1829	1.07	ppm		80
32) bis(2-Chloroethoxy)met...	5.588	93	2816	1.16	ppm		89
33) 2,4-Dichlorophenol	5.663	162	2069	1.15	ppm		93
34) 2,6-Dichlorophenol	5.824	162	2050	1.17	ppm		95
35) 1,3,5-Trichlorobenzene	5.498	180	2321	1.08	ppm		95
36) 1,2,4-Trichlorobenzene	5.728	180	2438	1.20	ppm		98
37) 1,2,3-Trichlorobenzene	5.888	180	2198	1.14	ppm		89
38) Naphthalene	5.786	128	7199	1.19	ppm		99
39) 4-Chloroaniline	5.818	127	3012	1.22	ppm		94
40) 2,3-Dichloroaniline	6.530	161	2479	1.17	ppm		99
41) Caprolactam	6.054	113	696	1.14	ppm		89
42) Hexachlorobutadiene	5.872	225	1362	1.19	ppm		88
43) 4-Chloro-3-methylphenol	6.161	107	1993	1.17	ppm		92
44) 2-Methylnaphthalene	6.300	141	3855	1.14	ppm		93
45) 1-Methylnaphthalene	6.380	141	4225	1.22	ppm		90
46) Dimethylnaphthalene	6.829	156	4057	1.21	ppm		94
48) Hexachlorocyclopentadiene	6.423	237	2526	1.84	ppm		98
49) 2,4,6-Trichlorophenol	6.524	196	1514	1.13	ppm		84
50) 2,4,5-Trichlorophenol	6.551	196	1517	1.06	ppm		99
52) 2-Chloronaphthalene	6.706	162	4377	1.14	ppm		94
53) Biphenyl	6.685	154	5484	1.11	ppm		94
54) 2-Nitroaniline	6.792	65	1345	1.08	ppm		88
55) Dimethylphthalate	6.958	163	4901	1.16	ppb		99
56) Acenaphthylene	7.097	152	7216	1.16	ppm		98
57) 2,6-Dinitrotoluene	7.017	165	1049	1.05	ppm		98
58) 3-Nitroaniline	7.182	138	1198	1.07	ppm		96
59) Acenaphthene	7.273	153	4405	1.10	ppm		97
60) 2,4-Dinitrophenol	7.289	184	456	0.77	ppm	#	32
61) 4-Nitrophenol	7.332	109	514	0.82	ppm	#	42
62) Dibenzofuran	7.460	168	5863	1.09	ppm		95
63) 2,4-Dinitrotoluene	7.428	165	1326	0.98	ppm	#	59
64) 2,3,4,6-Tetrachlorophenol	7.589	232	1282	1.08	ppm		90
65) Diethylphthalate	7.717	149	4761	1.10	ppm		95
66) Fluorene	7.862	166	4918	1.12	ppm		98
67) 4-Chlorophenyl-phenyle...	7.862	204	2300	1.11	ppm		92
68) 4-Nitroaniline	7.867	138	1189	1.06	ppm	#	77
70) 4,6-Dinitro-2-methylph...	7.904	198	509	0.62	ppm		92
71) n-Nitrosodiphenylamine	8.006	169	3319	1.14	ppm		94
72) 1,2-Diphenylhydrazine	8.060	77	5125	1.14	ppm		95
74) 4-Bromophenyl-phenylether	8.520	248	1438	1.16	ppm		94
75) Hexachlorobenzene	8.594	284	1565	1.17	ppm		91
76) Pentachlorophenol	8.883	266	2040	2.06	ppm		90
77) Phenanthrene	9.231	178	7156	1.15	ppm		96
78) Anthracene	9.311	178	7207	1.15	ppm		99

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2413\
Data File : 3p53004.D
Acq On : 29 Apr 2016 10:19 am
Operator : robertl1
Sample : IC2413-1
Misc : op93185,e3p2413
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 29 11:34:58 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2413.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 29 11:31:14 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
79)	Carbazole	9.589	167	6299	1.11	ppm	98
80)	Di-n-butylphthalate	10.317	149	8318	1.07	ppm	95
81)	Fluoranthene	11.418	202	7575	1.04	ppm	96
82)	Octadecane	9.086	57	3034	1.07	ppm	86
84)	Pyrene	11.868	202	8214	1.14	ppm	96
86)	Butylbenzylphthalate	13.494	149	3638	1.06	ppm	94
87)	Benzo[a]anthracene	14.526	228	8080	1.21	ppm	91
88)	3,3'-Dichlorobenzidine	14.558	252	2670	1.15	ppm	98
89)	Chrysene	14.596	228	7108	1.13	ppm	97
90)	bis(2-Ethylhexyl)phtha...	14.916	149	4957	1.07	ppm	97
92)	Di-n-octylphthalate	16.377	149	8338	0.98	ppm	97
93)	Benzo[b]fluoranthene	16.837	252	7565	1.12	ppm	94
94)	Benzo[k]fluoranthene	16.895	252	6838	1.10	ppm	92
95)	Benzo[a]pyrene	17.473	252	6405	1.09	ppm	82
96)	Indeno[1,2,3-cd]pyrene	19.532	276	5865	1.04	ppm	77
97)	Dibenz(a,h)acridine	19.174	279	5441	1.09	ppm	83
98)	Dibenz[a,h]anthracene	19.602	278	6104	1.10	ppm	98
99)	7,12-Dimethylbenz(a)an...	16.858	256	2803	0.97	ppm	84
100)	Benzo[g,h,i]perylene	19.960	276	6232	1.08	ppm	93

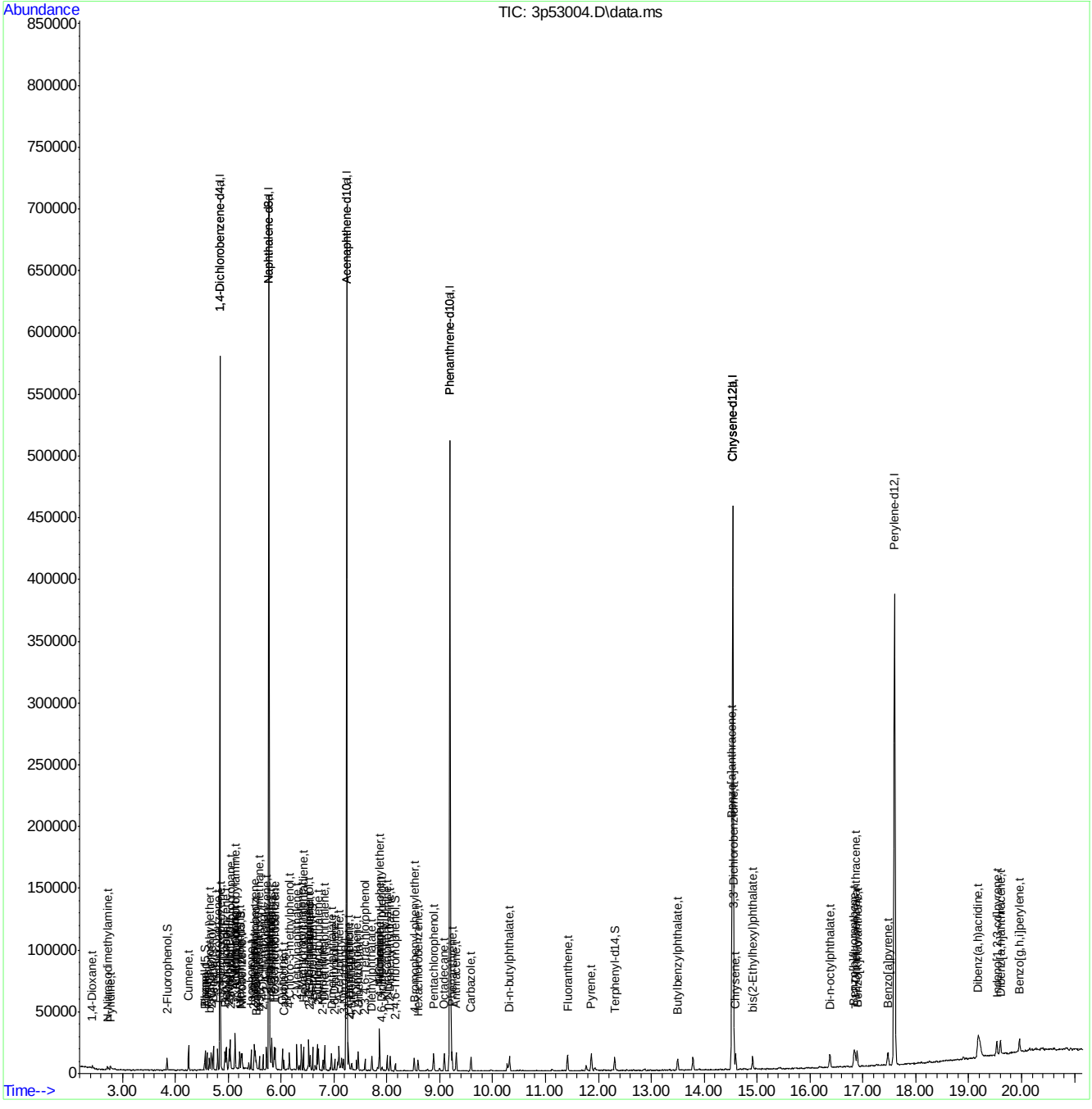
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2413\
Data File : 3p53004.D
Acq On : 29 Apr 2016 10:19 am
Operator : robertl1
Sample : IC2413-1
Misc : op93185,e3p2413
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 29 11:34:58 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2413.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 29 11:31:14 2016
Response via : Initial Calibration



SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2413\
Data File : 3p53005.D
Acq On : 29 Apr 2016 10:46 am
Operator : robertl1
Sample : IC2413-100
Misc : op93185,e3p2413
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 29 11:36:38 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2413.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 29 11:27:54 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.845	152	56143	40.00	ppm	0.00
24) Naphthalene-d8	5.776	136	177113	40.00	ppm	0.00
47) Acenaphthene-d10	7.247	164	95173	40.00	ppm	0.00
69) Phenanthrene-d10	9.199	188	167128	40.00	ppm	0.00
83) Chrysene-d12	14.558	240	191955	40.00	ppm	0.00
91) Perylene-d12	17.612	264	166434	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.845	152	56143	40.00	ppm	0.00
103) Acenaphthene-d10a	7.247	164	95173	40.00	ppm	0.00
106) Chrysene-d12a	14.558	240	191955	40.00	ppm	0.00
108) Naphthalene-d8a	5.776	136	177113	40.00	ppm	0.00
110) Phenanthrene-d10a	9.199	188	167128	40.00	ppm	0.00
113) Chrysene-d12b	14.558	240	191955	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.850	112	201533	105.13	ppm	0.00
Spiked Amount 50.000			Recovery	=	210.26%	
8) Phenol-d5	4.567	99	245210	101.20	ppm	0.00
Spiked Amount 50.000			Recovery	=	202.40%	
25) Nitrobenzene-d5	5.257	82	175174	97.93	ppm	0.00
Spiked Amount 50.000			Recovery	=	195.86%	
51) 2-Fluorobiphenyl	6.605	172	303530	98.70	ppm	0.00
Spiked Amount 50.000			Recovery	=	197.40%	
73) 2,4,6-Tribromophenol	8.172	330	48075	99.02	ppm	0.00
Spiked Amount 50.000			Recovery	=	198.04%	
85) Terphenyl-d14	12.322	244	360124	98.19	ppm	0.00
Spiked Amount 50.000			Recovery	=	196.38%	
111) O-Terphenyl	0.000	230	0	0.00	ppm	
112) 1-Chlorooctadecane	0.000	57	0	0.00	ppm	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.427	88	86713	101.53	ppm	96
3) Pyridine	2.743	79	224882	105.88	ppm	87
4) N-Nitrosodimethylamine	2.706	42	107636	102.22	ppm #	38
6) Indene	5.038	116	281071	94.98	ppm	98
7) Cumene	4.251	105	469821	101.54	ppm	97
9) Phenol	4.578	94	244605	100.32	ppm	75
10) Aniline	4.604	93	270795	100.45	ppm	83
11) bis(2-Chloroethyl)ether	4.653	93	175689	98.60	ppm	87
12) 2-Chlorophenol	4.690	128	193027	99.18	ppm	98
13) Decane	4.722	43	197489	97.43	ppm	95
14) 1,3-Dichlorobenzene	4.808	146	211528	98.73	ppm	94
15) 1,4-Dichlorobenzene	4.861	146	211119	96.10	ppm	99
16) Benzyl alcohol	4.947	108	111390	95.95	ppm #	78
17) 1,2-Dichlorobenzene	4.973	146	193913	96.92	ppm	95
18) Acetophenone	5.145	105	213087	91.03	ppm	76
19) 2-Methylphenol	5.022	108	149031	95.62	ppm	97
20) 2,2'-oxybis(1-Chloropr...	5.048	45	225667	91.48	ppm #	65
21) 3&4-Methylphenol	5.134	108	157783	94.38	ppm	91
22) n-Nitroso-di-n-propyla...	5.145	70	121301	91.28	ppm	95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2413\
Data File : 3p53005.D
Acq On : 29 Apr 2016 10:46 am
Operator : robertl1
Sample : IC2413-100
Misc : op93185,e3p2413
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 29 11:36:38 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2413.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 29 11:27:54 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
23) Hexachloroethane	5.219	201	70500	97.12	ppm	#	74
26) Nitrobenzene	5.268	77	174872	97.70	ppm		96
27) Quinoline	6.043	129	283374	98.60	ppm		99
28) Isophorone	5.444	82	295112	97.36	ppm		89
29) 2-Nitrophenol	5.498	139	92817	102.56	ppm		84
30) 2,4-Dimethylphenol	5.519	107	152396	101.65	ppm		96
31) Benzoic acid	5.615	105	128989	98.55	ppm		73
32) bis(2-Chloroethoxy)met...	5.594	93	175137	97.44	ppm		94
33) 2,4-Dichlorophenol	5.669	162	136398	102.05	ppm		96
34) 2,6-Dichlorophenol	5.829	162	128798	100.59	ppm		97
35) 1,3,5-Trichlorobenzene	5.503	180	158596	101.24	ppm		99
36) 1,2,4-Trichlorobenzene	5.733	180	149220	100.81	ppm		97
37) 1,2,3-Trichlorobenzene	5.893	180	139509	100.31	ppm		96
38) Naphthalene	5.792	128	443057	99.25	ppm		99
39) 4-Chloroaniline	5.829	127	182205	101.37	ppm		93
40) 2,3-Dichloroaniline	6.530	161	156339	100.53	ppm		99
41) Caprolactam	6.113	113	45494	100.08	ppm	#	85
42) Hexachlorobutadiene	5.877	225	85984	101.74	ppm		84
43) 4-Chloro-3-methylphenol	6.177	107	124630	99.25	ppm		99
44) 2-Methylnaphthalene	6.305	141	251028	100.68	ppm		94
45) 1-Methylnaphthalene	6.385	141	254102	99.92	ppm		97
46) Dimethylnaphthalene	6.835	156	248351	100.29	ppm		97
48) Hexachlorocyclopentadiene	6.428	237	207514	213.95	ppm		99
49) 2,4,6-Trichlorophenol	6.530	196	96743	102.81	ppm		96
50) 2,4,5-Trichlorophenol	6.562	196	99146	99.33	ppm		96
52) 2-Chloronaphthalene	6.717	162	264507	99.52	ppm		96
53) Biphenyl	6.690	154	340409	97.72	ppm		97
54) 2-Nitroaniline	6.803	65	83508	94.71	ppm		87
55) Dimethylphthalate	6.968	163	286955	97.11	ppb		98
56) Acenaphthylene	7.102	152	438044	100.15	ppm		99
57) 2,6-Dinitrotoluene	7.027	165	70240	101.39	ppm		91
58) 3-Nitroaniline	7.198	138	77730	99.46	ppm		95
59) Acenaphthene	7.284	153	277318	98.84	ppm		94
60) 2,4-Dinitrophenol	7.305	184	92177	211.27	ppm	#	59
61) 4-Nitrophenol	7.354	109	43019	97.85	ppm	#	49
62) Dibenzofuran	7.466	168	364748	96.49	ppm		97
63) 2,4-Dinitrotoluene	7.445	165	92818	97.63	ppm	#	58
64) 2,3,4,6-Tetrachlorophenol	7.594	232	85869	102.06	ppm		95
65) Diethylphthalate	7.733	149	305482	100.13	ppm		97
66) Fluorene	7.867	166	315785	102.78	ppm		98
67) 4-Chlorophenyl-phenyle...	7.867	204	148748	101.56	ppm		98
68) 4-Nitroaniline	7.899	138	80779	104.28	ppm	#	77
70) 4,6-Dinitro-2-methylph...	7.926	198	61025	99.05	ppm		88
71) n-Nitrosodiphenylamine	8.017	169	206073	95.37	ppm		95
72) 1,2-Diphenylhydrazine	8.070	77	306298	92.68	ppm		94
74) 4-Bromophenyl-phenylether	8.525	248	90695	98.94	ppm		98
75) Hexachlorobenzene	8.600	284	98283	101.65	ppm		93
76) Pentachlorophenol	8.899	266	151368	204.68	ppm		95
77) Phenanthrene	9.242	178	448791	98.23	ppm		94
78) Anthracene	9.327	178	454988	98.01	ppm		99

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2413\
Data File : 3p53005.D
Acq On : 29 Apr 2016 10:46 am
Operator : robertl1
Sample : IC2413-100
Misc : op93185,e3p2413
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 29 11:36:38 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2413.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 29 11:27:54 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
79)	Carbazole	9.605	167	412986	98.85	ppm	96
80)	Di-n-butylphthalate	10.327	149	575793	98.78	ppm	98
81)	Fluoranthene	11.435	202	550449	100.83	ppm	98
82)	Octadecane	9.097	57	199465	95.49	ppm	88
84)	Pyrene	11.884	202	569712	96.76	ppm	97
86)	Butylbenzylphthalate	13.510	149	275142	96.20	ppm	97
87)	Benzo[a]anthracene	14.537	228	538084	98.40	ppm	97
88)	3,3'-Dichlorobenzidine	14.580	252	192632	101.49	ppm	98
89)	Chrysene	14.622	228	494122	95.92	ppm	96
90)	bis(2-Ethylhexyl)phtha...	14.927	149	361207	94.51	ppm	96
92)	Di-n-octylphthalate	16.387	149	666492	98.85	ppm	96
93)	Benzo[b]fluoranthene	16.863	252	539406	100.18	ppm	98
94)	Benzo[k]fluoranthene	16.933	252	476041	98.06	ppm	99
95)	Benzo[a]pyrene	17.505	252	462137	100.03	ppm	92
96)	Indeno[1,2,3-cd]pyrene	19.570	276	451934	100.55	ppm	79
97)	Dibenz(a,h)acridine	19.206	279	404791	101.28	ppm	85
98)	Dibenz[a,h]anthracene	19.634	278	442105	100.25	ppm	96
99)	7,12-Dimethylbenz(a)an...	16.890	256	228730	100.21	ppm	90
100)	Benzo[g,h,i]perylene	20.003	276	458842	101.78	ppm	93

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

7.6.44

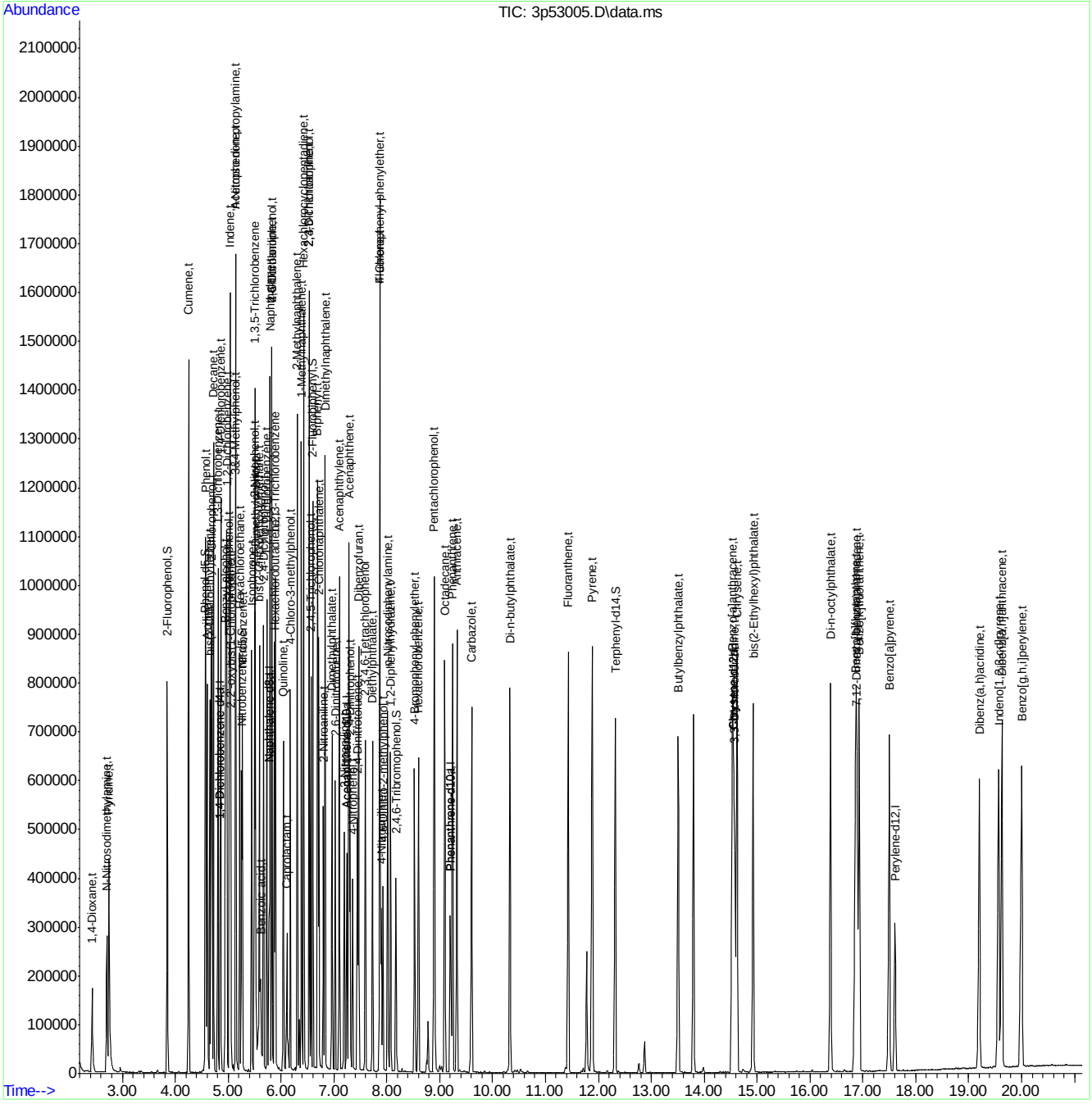
7

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2413\
Data File : 3p53005.D
Acq On : 29 Apr 2016 10:46 am
Operator : robertl1
Sample : IC2413-100
Misc : op93185,e3p2413
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 29 11:36:38 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2413.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 29 11:27:54 2016
Response via : Initial Calibration



SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2413\
Data File : 3p53006.D
Acq On : 29 Apr 2016 11:14 am
Operator : robertl1
Sample : IC2413-2
Misc : op93185,e3p2413
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 29 12:52:03 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2413.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 29 11:35:07 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.845	152	69381	40.00	ppm	0.00
24) Naphthalene-d8	5.770	136	251276	40.00	ppm	0.00
47) Acenaphthene-d10	7.241	164	139471	40.00	ppm	0.00
69) Phenanthrene-d10	9.194	188	237799	40.00	ppm	0.00
83) Chrysene-d12	14.542	240	245398	40.00	ppm	-0.01
91) Perylene-d12	17.602	264	224468	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.845	152	69381	40.00	ppm	0.00
103) Acenaphthene-d10a	7.241	164	139471	40.00	ppm	0.00
106) Chrysene-d12a	14.542	240	245398	40.00	ppm	-0.01
108) Naphthalene-d8a	5.770	136	251276	40.00	ppm	0.00
110) Phenanthrene-d10a	9.194	188	237799	40.00	ppm	0.00
113) Chrysene-d12b	14.542	240	245398	40.00	ppm	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	3.845	112	4670	1.99	ppm	0.00
Spiked Amount 50.000			Recovery	=	3.98%	
8) Phenol-d5	4.556	99	6215	2.08	ppm	0.00
Spiked Amount 50.000			Recovery	=	4.16%	
25) Nitrobenzene-d5	5.246	82	5418	2.11	ppm	0.00
Spiked Amount 50.000			Recovery	=	4.22%	
51) 2-Fluorobiphenyl	6.599	172	9851	2.10	ppm	0.00
Spiked Amount 50.000			Recovery	=	4.20%	
73) 2,4,6-Tribromophenol	8.161	330	1424	2.03	ppm	0.00
Spiked Amount 50.000			Recovery	=	4.06%	
85) Terphenyl-d14	12.306	244	10410	2.13	ppm	0.00
Spiked Amount 50.000			Recovery	=	4.26%	
111) O-Terphenyl	0.000	230	0	0.00	ppm	
112) 1-Chlorooctadecane	0.000	57	0d	0.00	ppm	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.433	88	2256	2.06	ppm	94
3) Pyridine	2.764	79	5118	2.07	ppm	93
4) N-Nitrosodimethylamine	2.716	42	2098	1.53	ppm #	45
6) Indene	5.032	116	8422	2.17	ppm	97
7) Cumene	4.251	105	11701	2.02	ppm	96
9) Phenol	4.567	94	6297	2.05	ppm	75
10) Aniline	4.599	93	7732	2.21	ppm	75
11) bis(2-Chloroethyl)ether	4.647	93	4768	2.10	ppm	90
12) 2-Chlorophenol	4.685	128	5094	2.09	ppm	99
13) Decane	4.722	43	5401	2.07	ppm	93
14) 1,3-Dichlorobenzene	4.802	146	5764	2.09	ppm	97
15) 1,4-Dichlorobenzene	4.856	146	6070	2.13	ppm	96
16) Benzyl alcohol	4.941	108	3107	2.09	ppm #	74
17) 1,2-Dichlorobenzene	4.968	146	5716	2.23	ppm	95
18) Acetophenone	5.134	105	6796	2.23	ppm	94
19) 2-Methylphenol	5.016	108	4383	2.16	ppm	96
20) 2,2'-oxybis(1-Chloropr...	5.043	45	7145	2.15	ppm #	63
21) 3&4-Methylphenol	5.123	108	4652	2.15	ppm	89
22) n-Nitroso-di-n-propyla...	5.134	70	4115	2.25	ppm	99

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2413\
Data File : 3p53006.D
Acq On : 29 Apr 2016 11:14 am
Operator : robertl1
Sample : IC2413-2
Misc : op93185,e3p2413
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 29 12:52:03 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2413.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 29 11:35:07 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
23) Hexachloroethane	5.219	201	2131	2.23	ppm		81
26) Nitrobenzene	5.262	77	5619	2.12	ppm		96
27) Quinoline	6.027	129	9178	2.15	ppm		98
28) Isophorone	5.433	82	9042	2.05	ppm		89
29) 2-Nitrophenol	5.492	139	2546	1.96	ppm		78
30) 2,4-Dimethylphenol	5.514	107	4371	1.95	ppm		96
31) Benzoic acid	5.535	105	3641	1.99	ppm	#	59
32) bis(2-Chloroethoxy)met...	5.589	93	5517	2.06	ppm		95
33) 2,4-Dichlorophenol	5.663	162	4087	2.06	ppm		98
34) 2,6-Dichlorophenol	5.824	162	4114	2.12	ppm		92
35) 1,3,5-Trichlorobenzene	5.503	180	4855	2.10	ppm		98
36) 1,2,4-Trichlorobenzene	5.728	180	4671	2.07	ppm		97
37) 1,2,3-Trichlorobenzene	5.888	180	4649	2.20	ppm		95
38) Naphthalene	5.786	128	14245	2.12	ppm		99
39) 4-Chloroaniline	5.819	127	6193	2.24	ppm		90
40) 2,3-Dichloroaniline	6.530	161	5112	2.18	ppm		97
41) Caprolactam	6.054	113	1449	2.16	ppm	#	84
42) Hexachlorobutadiene	5.872	225	2657	2.08	ppm		83
43) 4-Chloro-3-methylphenol	6.161	107	3862	2.06	ppm		97
44) 2-Methylnaphthalene	6.300	141	8326	2.25	ppm		93
45) 1-Methylnaphthalene	6.380	141	8245	2.13	ppm		93
46) Dimethylnaphthalene	6.829	156	8030	2.14	ppm		98
48) Hexachlorocyclopentadiene	6.423	237	5248	3.84	ppm		94
49) 2,4,6-Trichlorophenol	6.525	196	3057	2.13	ppm		94
50) 2,4,5-Trichlorophenol	6.551	196	3020	2.02	ppm		95
52) 2-Chloronaphthalene	6.706	162	9033	2.19	ppm		97
53) Biphenyl	6.685	154	11353	2.17	ppm		96
54) 2-Nitroaniline	6.792	65	2669	2.04	ppm		95
55) Dimethylphthalate	6.958	163	9563	2.10	ppb		97
56) Acenaphthylene	7.097	152	14181	2.12	ppm		97
57) 2,6-Dinitrotoluene	7.017	165	2140	2.07	ppm		96
58) 3-Nitroaniline	7.182	138	2385	2.03	ppm		93
59) Acenaphthene	7.273	153	9002	2.12	ppm		95
60) 2,4-Dinitrophenol	7.289	184	1228	2.56	ppm	#	35
61) 4-Nitrophenol	7.332	109	1169	1.94	ppm	#	49
62) Dibenzofuran	7.461	168	12030	2.12	ppm		96
63) 2,4-Dinitrotoluene	7.428	165	2694	1.96	ppm	#	60
64) 2,3,4,6-Tetrachlorophenol	7.589	232	2580	2.07	ppm		93
65) Diethylphthalate	7.717	149	9844	2.15	ppm		95
66) Fluorene	7.862	166	9656	2.07	ppm		97
67) 4-Chlorophenyl-phenyle...	7.862	204	4674	2.12	ppm		94
68) 4-Nitroaniline	7.867	138	2287	1.96	ppm		86
70) 4,6-Dinitro-2-methylph...	7.910	198	1128	1.50	ppm		88
71) n-Nitrosodiphenylamine	8.006	169	6637	2.08	ppm		95
72) 1,2-Diphenylhydrazine	8.060	77	10369	2.12	ppm		93
74) 4-Bromophenyl-phenylether	8.520	248	2861	2.10	ppm		100
75) Hexachlorobenzene	8.589	284	3312	2.25	ppm		92
76) Pentachlorophenol	8.883	266	4062	3.89	ppm		90
77) Phenanthrene	9.231	178	14529	2.13	ppm		98
78) Anthracene	9.317	178	14612	2.13	ppm		99

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2413\
Data File : 3p53006.D
Acq On : 29 Apr 2016 11:14 am
Operator : robertl1
Sample : IC2413-2
Misc : op93185,e3p2413
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 29 12:52:03 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2413.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 29 11:35:07 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
79)	Carbazole	9.589	167	13069	2.13	ppm	97
80)	Di-n-butylphthalate	10.322	149	16789	2.02	ppm	97
81)	Fluoranthene	11.419	202	15761	2.05	ppm	93
82)	Octadecane	9.087	57	6101	2.02	ppm	87
84)	Pyrene	11.868	202	16804	2.13	ppm	94
86)	Butylbenzylphthalate	13.499	149	7134	1.95	ppm	98
87)	Benzo[a]anthracene	14.521	228	16007	2.14	ppm	97
88)	3,3'-Dichlorobenzidine	14.558	252	5537	2.17	ppm	100
89)	Chrysene	14.596	228	14606	2.12	ppm	97
90)	bis(2-Ethylhexyl)phtha...	14.917	149	10077	2.03	ppm	96
92)	Di-n-octylphthalate	16.377	149	17137	1.91	ppm	95
93)	Benzo[b]fluoranthene	16.837	252	14869	1.99	ppm	96
94)	Benzo[k]fluoranthene	16.896	252	14658	2.15	ppm	97
95)	Benzo[a]pyrene	17.473	252	13490	2.10	ppm	90
96)	Indeno[1,2,3-cd]pyrene	19.532	276	11999	1.97	ppm	77
97)	Dibenz(a,h)acridine	19.179	279	11686	2.14	ppm	89
98)	Dibenz[a,h]anthracene	19.597	278	12380	2.03	ppm	95
99)	7,12-Dimethylbenz(a)an...	16.858	256	5469	1.81	ppm	90
100)	Benzo[g,h,i]perylene	19.960	276	12740	2.02	ppm	89

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

7.6.45

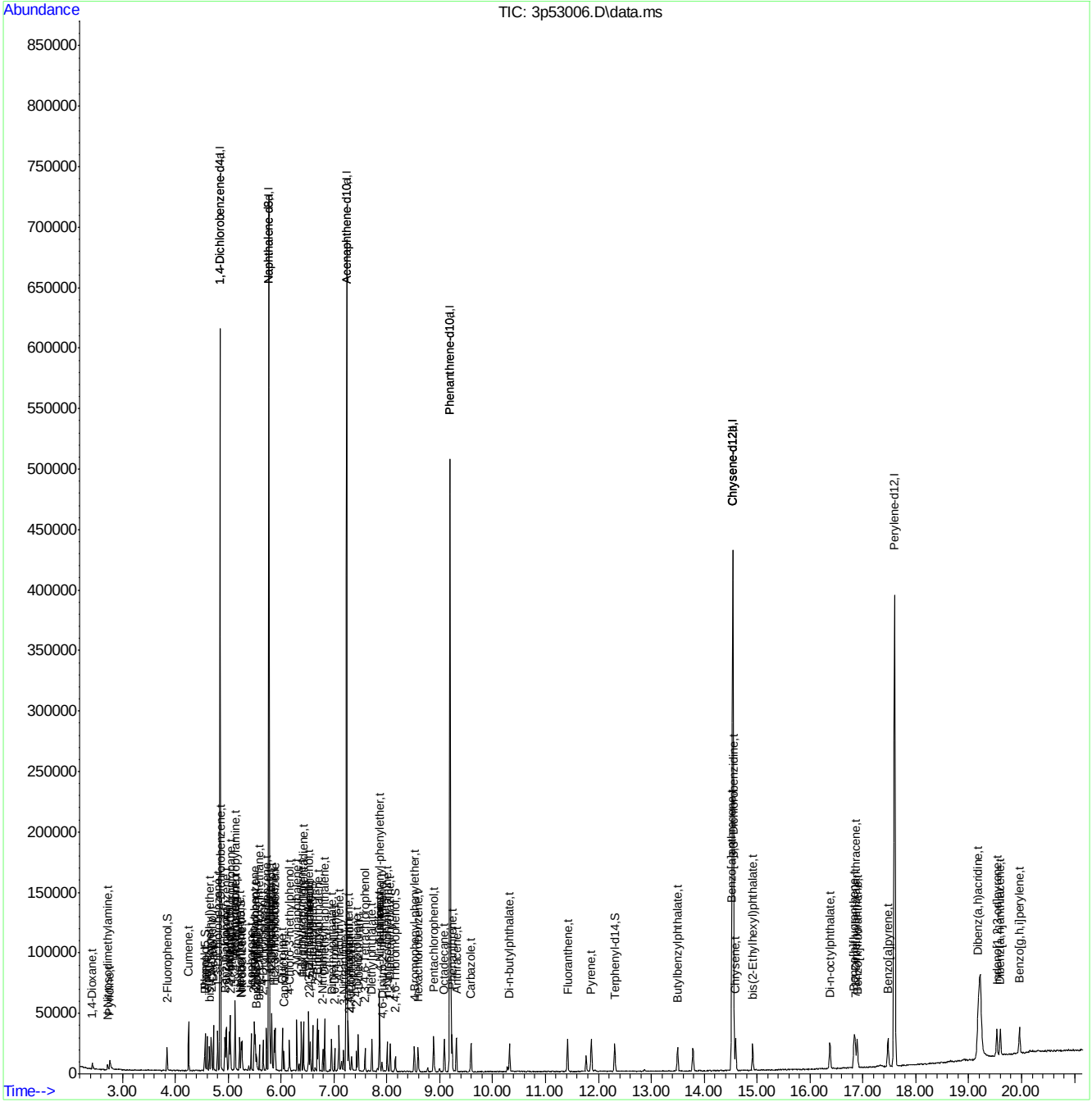
7

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2413\
Data File : 3p53006.D
Acq On : 29 Apr 2016 11:14 am
Operator : robertl1
Sample : IC2413-2
Misc : op93185,e3p2413
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 29 12:52:03 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2413.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 29 11:35:07 2016
Response via : Initial Calibration



SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2413\
Data File : 3p53007.D
Acq On : 29 Apr 2016 11:41 am
Operator : robertl1
Sample : IC2413-80
Misc : op93185,e3p2413
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 29 12:53:28 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2413.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 29 11:36:51 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.845	152	59686	40.00	ppm	0.00
24) Naphthalene-d8	5.771	136	187296	40.00	ppm	0.00
47) Acenaphthene-d10	7.241	164	101550	40.00	ppm	0.00
69) Phenanthrene-d10	9.199	188	174526	40.00	ppm	0.00
83) Chrysene-d12	14.553	240	199845	40.00	ppm	0.00
91) Perylene-d12	17.607	264	174147	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.845	152	59686	40.00	ppm	0.00
103) Acenaphthene-d10a	7.241	164	101550	40.00	ppm	0.00
106) Chrysene-d12a	14.553	240	199845	40.00	ppm	0.00
108) Naphthalene-d8a	5.771	136	187296	40.00	ppm	0.00
110) Phenanthrene-d10a	9.199	188	174526	40.00	ppm	0.00
113) Chrysene-d12b	14.553	240	199845	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.845	112	166609	81.42	ppm	0.00
Spiked Amount 50.000			Recovery = 162.84%			
8) Phenol-d5	4.567	99	203660	79.01	ppm	0.00
Spiked Amount 50.000			Recovery = 158.02%			
25) Nitrobenzene-d5	5.252	82	148207	78.05	ppm	0.00
Spiked Amount 50.000			Recovery = 156.10%			
51) 2-Fluorobiphenyl	6.600	172	260377	77.30	ppm	0.00
Spiked Amount 50.000			Recovery = 154.60%			
73) 2,4,6-Tribromophenol	8.167	330	41040	80.16	ppm	0.00
Spiked Amount 50.000			Recovery = 160.32%			
85) Terphenyl-d14	12.317	244	307593	78.32	ppm	0.00
Spiked Amount 50.000			Recovery = 156.64%			
111) O-Terphenyl	0.000	230	0	0.00	ppm	
112) 1-Chlorooctadecane	0.000	57	0	0.00	ppm	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.428	88	72704	77.45	ppm	96
3) Pyridine	2.743	79	180787	82.31	ppm	86
4) N-Nitrosodimethylamine	2.706	42	86197	73.65	ppm #	40
6) Indene	5.038	116	238376	73.41	ppm	96
7) Cumene	4.252	105	394367	79.21	ppm	97
9) Phenol	4.572	94	206961	78.72	ppm	71
10) Aniline	4.599	93	227929	76.58	ppm	84
11) bis(2-Chloroethyl)ether	4.653	93	146163	75.69	ppm	89
12) 2-Chlorophenol	4.690	128	164054	78.70	ppm	97
13) Decane	4.722	43	165544	75.01	ppm	93
14) 1,3-Dichlorobenzene	4.802	146	180565	77.01	ppm	97
15) 1,4-Dichlorobenzene	4.861	146	177711	74.07	ppm	98
16) Benzyl alcohol	4.947	108	94826	75.68	ppm #	73
17) 1,2-Dichlorobenzene	4.968	146	163259	75.26	ppm	94
18) Acetophenone	5.139	105	184725	72.94	ppm	91
19) 2-Methylphenol	5.022	108	126108	73.92	ppm	96
20) 2,2'-oxybis(1-Chloropr...	5.043	45	190472	69.30	ppm #	64
21) 3&4-Methylphenol	5.134	108	134664	74.05	ppm	91
22) n-Nitroso-di-n-propyla...	5.145	70	104877	69.75	ppm	99

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2413\
Data File : 3p53007.D
Acq On : 29 Apr 2016 11:41 am
Operator : robertl1
Sample : IC2413-80
Misc : op93185,e3p2413
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 29 12:53:28 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2413.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 29 11:36:51 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
23) Hexachloroethane	5.220	201	61257	76.23	ppm		81
26) Nitrobenzene	5.268	77	148327	76.42	ppm		96
27) Quinoline	6.038	129	239202	76.40	ppm		99
28) Isophorone	5.439	82	253182	77.88	ppm		90
29) 2-Nitrophenol	5.498	139	77973	80.20	ppm		85
30) 2,4-Dimethylphenol	5.519	107	128638	77.74	ppm		94
31) Benzoic acid	5.605	105	109813	80.57	ppm		84
32) bis(2-Chloroethoxy)met...	5.589	93	148337	75.78	ppm		92
33) 2,4-Dichlorophenol	5.664	162	114392	77.97	ppm		94
34) 2,6-Dichlorophenol	5.829	162	109958	77.21	ppm		96
35) 1,3,5-Trichlorobenzene	5.503	180	137117	80.21	ppm		97
36) 1,2,4-Trichlorobenzene	5.728	180	126475	76.24	ppm		98
37) 1,2,3-Trichlorobenzene	5.888	180	118820	76.67	ppm		96
38) Naphthalene	5.787	128	371308	75.40	ppm		98
39) 4-Chloroaniline	5.824	127	157080	77.37	ppm		94
40) 2,3-Dichloroaniline	6.530	161	132911	77.19	ppm		98
41) Caprolactam	6.102	113	38954	78.76	ppm		90
42) Hexachlorobutadiene	5.872	225	71887	76.47	ppm		83
43) 4-Chloro-3-methylphenol	6.172	107	107257	77.79	ppm		96
44) 2-Methylnaphthalene	6.305	141	214814	78.69	ppm		93
45) 1-Methylnaphthalene	6.386	141	217057	76.41	ppm		96
46) Dimethylnaphthalene	6.830	156	212814	77.28	ppm		97
48) Hexachlorocyclopentadiene	6.423	237	177533	173.39	ppm		97
49) 2,4,6-Trichlorophenol	6.530	196	82275	79.11	ppm		95
50) 2,4,5-Trichlorophenol	6.557	196	86291	79.94	ppm		95
52) 2-Chloronaphthalene	6.712	162	226145	76.55	ppm		95
53) Biphenyl	6.691	154	293142	77.77	ppm		97
54) 2-Nitroaniline	6.797	65	70942	75.64	ppm		90
55) Dimethylphthalate	6.963	163	244983	75.30	ppb		99
56) Acenaphthylene	7.102	152	370162	76.70	ppm		99
57) 2,6-Dinitrotoluene	7.022	165	59062	78.42	ppm		94
58) 3-Nitroaniline	7.193	138	66192	78.04	ppm		99
59) Acenaphthene	7.279	153	237057	77.63	ppm		99
60) 2,4-Dinitrophenol	7.300	184	77148	200.38	ppm	#	42
61) 4-Nitrophenol	7.348	109	36487	82.21	ppm	#	49
62) Dibenzofuran	7.466	168	317367	78.07	ppm		96
63) 2,4-Dinitrotoluene	7.439	165	78195	78.41	ppm	#	49
64) 2,3,4,6-Tetrachlorophenol	7.594	232	72286	79.47	ppm		92
65) Diethylphthalate	7.723	149	254461	76.77	ppm		97
66) Fluorene	7.867	166	264818	78.11	ppm		97
67) 4-Chlorophenyl-phenyle...	7.862	204	124582	77.94	ppm		99
68) 4-Nitroaniline	7.889	138	68926	80.84	ppm	#	77
70) 4,6-Dinitro-2-methylph...	7.921	198	51707	90.24	ppm		88
71) n-Nitrosodiphenylamine	8.012	169	173864	75.90	ppm		93
72) 1,2-Diphenylhydrazine	8.065	77	262446	75.10	ppm		95
74) 4-Bromophenyl-phenylether	8.525	248	76678	77.74	ppm		96
75) Hexachlorobenzene	8.595	284	84002	78.79	ppm		92
76) Pentachlorophenol	8.894	266	125573	162.64	ppm		96
77) Phenanthrene	9.236	178	379731	77.18	ppm		95
78) Anthracene	9.322	178	387170	77.87	ppm		100

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2413\
Data File : 3p53007.D
Acq On : 29 Apr 2016 11:41 am
Operator : robertl1
Sample : IC2413-80
Misc : op93185,e3p2413
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 29 12:53:28 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2413.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 29 11:36:51 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
79)	Carbazole	9.600	167	349217	78.28	ppm	97
80)	Di-n-butylphthalate	10.322	149	480894	79.25	ppm	98
81)	Fluoranthene	11.424	202	463514	81.73	ppm	97
82)	Octadecane	9.092	57	166900	76.47	ppm	88
84)	Pyrene	11.879	202	482434	76.63	ppm	97
86)	Butylbenzylphthalate	13.505	149	229439	77.64	ppm	97
87)	Benzo[a]anthracene	14.532	228	454394	76.17	ppm	97
88)	3,3'-Dichlorobenzidine	14.574	252	166527	80.95	ppm	95
89)	Chrysene	14.612	228	420379	76.64	ppm	96
90)	bis(2-Ethylhexyl)phtha...	14.922	149	306912	77.31	ppm	96
92)	Di-n-octylphthalate	16.382	149	566946	81.39	ppm	96
93)	Benzo[b]fluoranthene	16.858	252	453066	78.71	ppm	96
94)	Benzo[k]fluoranthene	16.922	252	412169	79.07	ppm	99
95)	Benzo[a]pyrene	17.495	252	393633	79.72	ppm	90
96)	Indeno[1,2,3-cd]pyrene	19.565	276	381257	80.76	ppm	83
97)	Dibenz(a,h)acridine	19.201	279	344154	81.19	ppm	85
98)	Dibenz[a,h]anthracene	19.624	278	370015	78.60	ppm	96
99)	7,12-Dimethylbenz(a)an...	16.885	256	193370	81.91	ppm	90
100)	Benzo[g,h,i]perylene	19.998	276	390319	80.26	ppm	95

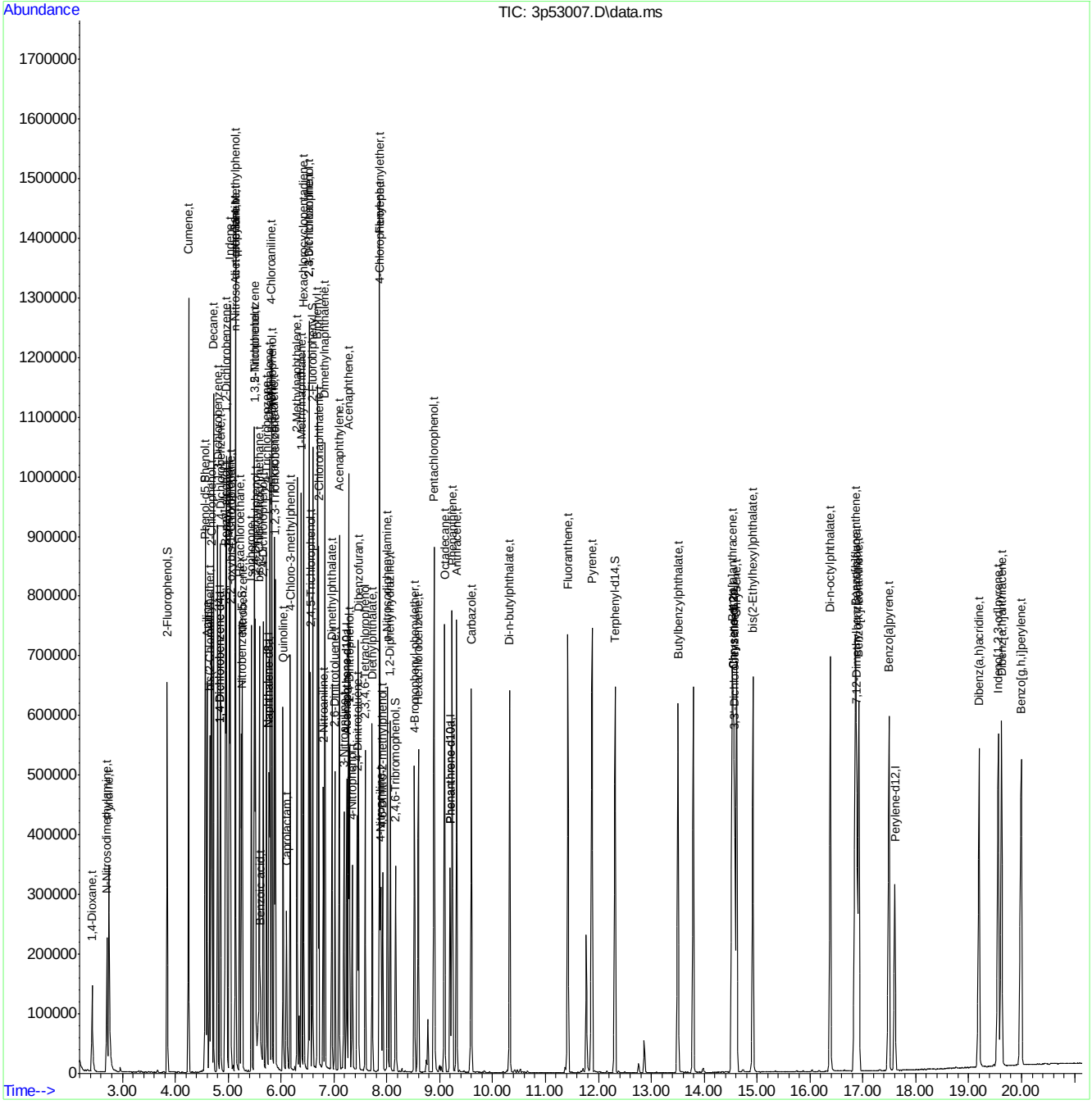
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2413\
Data File : 3p53007.D
Acq On : 29 Apr 2016 11:41 am
Operator : robertl1
Sample : IC2413-80
Misc : op93185,e3p2413
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 29 12:53:28 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2413.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 29 11:36:51 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2413\
Data File : 3p53008.D
Acq On : 29 Apr 2016 12:08 pm
Operator : robertl1
Sample : IC2413-5
Misc : op93185,e3p2413
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 29 12:58:24 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2413.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 29 11:36:51 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.845	152	71165	40.00	ppm	0.00
24) Naphthalene-d8	5.770	136	249367	40.00	ppm	0.00
47) Acenaphthene-d10	7.241	164	136330	40.00	ppm	0.00
69) Phenanthrene-d10	9.194	188	227266	40.00	ppm	0.00
83) Chrysene-d12	14.542	240	238894	40.00	ppm	-0.01
91) Perylene-d12	17.602	264	217420	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.845	152	71165	40.00	ppm	0.00
103) Acenaphthene-d10a	7.241	164	136330	40.00	ppm	0.00
106) Chrysene-d12a	14.542	240	238894	40.00	ppm	-0.01
108) Naphthalene-d8a	5.770	136	249367	40.00	ppm	0.00
110) Phenanthrene-d10a	9.194	188	227266	40.00	ppm	0.00
113) Chrysene-d12b	14.542	240	238894	40.00	ppm	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	3.845	112	12384	5.08	ppm	0.00
Spiked Amount 50.000			Recovery	=	10.16%	
8) Phenol-d5	4.556	99	15482	5.04	ppm	0.00
Spiked Amount 50.000			Recovery	=	10.08%	
25) Nitrobenzene-d5	5.246	82	13522	5.35	ppm	0.00
Spiked Amount 50.000			Recovery	=	10.70%	
51) 2-Fluorobiphenyl	6.594	172	24961	5.52	ppm	0.00
Spiked Amount 50.000			Recovery	=	11.04%	
73) 2,4,6-Tribromophenol	8.161	330	3659	5.49	ppm	0.00
Spiked Amount 50.000			Recovery	=	10.98%	
85) Terphenyl-d14	12.306	244	25587	5.45	ppm	0.00
Spiked Amount 50.000			Recovery	=	10.90%	
111) O-Terphenyl	0.000	230	0	0.00	ppm	
112) 1-Chlorooctadecane	0.000	57	0	0.00	ppm	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.428	88	5741	5.13	ppm	96
3) Pyridine	2.748	79	13170	5.03	ppm	83
4) N-Nitrosodimethylamine	2.706	42	6520	4.67	ppm #	44
6) Indene	5.032	116	21222	5.48	ppm	97
7) Cumene	4.251	105	29590	4.98	ppm	97
9) Phenol	4.567	94	15804	5.04	ppm	74
10) Aniline	4.599	93	19009	5.36	ppm	81
11) bis(2-Chloroethyl)ether	4.647	93	12046	5.23	ppm	95
12) 2-Chlorophenol	4.685	128	13085	5.26	ppm	98
13) Decane	4.717	43	13508	5.13	ppm	94
14) 1,3-Dichlorobenzene	4.802	146	15479	5.54	ppm	95
15) 1,4-Dichlorobenzene	4.856	146	15285	5.34	ppm	99
16) Benzyl alcohol	4.941	108	7956	5.33	ppm #	72
17) 1,2-Dichlorobenzene	4.968	146	13994	5.41	ppm	94
18) Acetophenone	5.134	105	16800	5.56	ppm	95
19) 2-Methylphenol	5.016	108	11099	5.46	ppm	97
20) 2,2'-oxybis(1-Chloropr...	5.038	45	17704	5.40	ppm #	66
21) 3&4-Methylphenol	5.123	108	11704	5.40	ppm	88
22) n-Nitroso-di-n-propyla...	5.134	70	9774	5.45	ppm	99

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2413\
Data File : 3p53008.D
Acq On : 29 Apr 2016 12:08 pm
Operator : robertl1
Sample : IC2413-5
Misc : op93185,e3p2413
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 29 12:58:24 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2413.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 29 11:36:51 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
23) Hexachloroethane	5.220	201	5406	5.64	ppm		85
26) Nitrobenzene	5.262	77	13977	5.41	ppm		95
27) Quinoline	6.027	129	22376	5.37	ppm		100
28) Isophorone	5.433	82	22769	5.26	ppm		88
29) 2-Nitrophenol	5.492	139	6746	5.21	ppm		83
30) 2,4-Dimethylphenol	5.514	107	11470	5.21	ppm		92
31) Benzoic acid	5.540	105	9233	5.09	ppm		79
32) bis(2-Chloroethoxy)met...	5.583	93	14043	5.39	ppm		90
33) 2,4-Dichlorophenol	5.658	162	10395	5.32	ppm		95
34) 2,6-Dichlorophenol	5.824	162	10012	5.28	ppm		99
35) 1,3,5-Trichlorobenzene	5.498	180	12676	5.57	ppm		96
36) 1,2,4-Trichlorobenzene	5.728	180	11977	5.42	ppm		98
37) 1,2,3-Trichlorobenzene	5.888	180	11251	5.45	ppm		98
38) Naphthalene	5.786	128	34951	5.33	ppm		98
39) 4-Chloroaniline	5.819	127	14676	5.43	ppm		95
40) 2,3-Dichloroaniline	6.525	161	12596	5.49	ppm		98
41) Caprolactam	6.059	113	3502	5.32	ppm	#	80
42) Hexachlorobutadiene	5.872	225	6788	5.42	ppm		88
43) 4-Chloro-3-methylphenol	6.161	107	9553	5.20	ppm		100
44) 2-Methylnaphthalene	6.300	141	20065	5.52	ppm		94
45) 1-Methylnaphthalene	6.380	141	20513	5.42	ppm		96
46) Dimethylnaphthalene	6.829	156	20205	5.51	ppm		97
48) Hexachlorocyclopentadiene	6.423	237	14974	10.89	ppm		99
49) 2,4,6-Trichlorophenol	6.519	196	7762	5.56	ppm		87
50) 2,4,5-Trichlorophenol	6.551	196	8203	5.66	ppm		94
52) 2-Chloronaphthalene	6.706	162	21994	5.55	ppm		97
53) Biphenyl	6.685	154	28127	5.56	ppm		96
54) 2-Nitroaniline	6.787	65	6553	5.20	ppm		94
55) Dimethylphthalate	6.952	163	23980	5.49	ppb		97
56) Acenaphthylene	7.097	152	35106	5.42	ppm		97
57) 2,6-Dinitrotoluene	7.017	165	5276	5.22	ppm		97
58) 3-Nitroaniline	7.182	138	6162	5.41	ppm		99
59) Acenaphthene	7.273	153	22316	5.44	ppm		98
60) 2,4-Dinitrophenol	7.289	184	4587	8.87	ppm	#	39
61) 4-Nitrophenol	7.332	109	3144	5.28	ppm	#	53
62) Dibenzofuran	7.455	168	30497	5.59	ppm		96
63) 2,4-Dinitrotoluene	7.429	165	7013	5.24	ppm	#	45
64) 2,3,4,6-Tetrachlorophenol	7.589	232	6215	5.09	ppm		92
65) Diethylphthalate	7.712	149	23829	5.36	ppm		94
66) Fluorene	7.856	166	24302	5.34	ppm		94
67) 4-Chlorophenyl-phenyle...	7.856	204	11525	5.37	ppm		99
68) 4-Nitroaniline	7.867	138	6075	5.31	ppm	#	74
70) 4,6-Dinitro-2-methylph...	7.905	198	3774	5.06	ppm		85
71) n-Nitrosodiphenylamine	8.006	169	16487	5.53	ppm		96
72) 1,2-Diphenylhydrazine	8.060	77	24557	5.40	ppm		97
74) 4-Bromophenyl-phenylether	8.520	248	7129	5.55	ppm		93
75) Hexachlorobenzene	8.589	284	7576	5.46	ppm		91
76) Pentachlorophenol	8.883	266	10508	10.45	ppm		94
77) Phenanthrene	9.226	178	34787	5.43	ppm		94
78) Anthracene	9.311	178	35686	5.51	ppm		99

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2413\
Data File : 3p53008.D
Acq On : 29 Apr 2016 12:08 pm
Operator : robertl1
Sample : IC2413-5
Misc : op93185,e3p2413
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 29 12:58:24 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2413.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 29 11:36:51 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
79)	Carbazole	9.589	167	31978	5.50	ppm	97
80)	Di-n-butylphthalate	10.317	149	40619	5.14	ppm	99
81)	Fluoranthene	11.413	202	38789	5.25	ppm	97
82)	Octadecane	9.087	57	15116	5.32	ppm	87
84)	Pyrene	11.868	202	40559	5.39	ppm	94
86)	Butylbenzylphthalate	13.494	149	18542	5.25	ppm	96
87)	Benzo[a]anthracene	14.521	228	38265	5.37	ppm	98
88)	3,3'-Dichlorobenzidine	14.558	252	14442	5.87	ppm	91
89)	Chrysene	14.590	228	36642	5.59	ppm	98
90)	bis(2-Ethylhexyl)phtha...	14.917	149	25931	5.46	ppm	95
92)	Di-n-octylphthalate	16.377	149	44649	5.13	ppm	97
93)	Benzo[b]fluoranthene	16.837	252	37460	5.21	ppm	98
94)	Benzo[k]fluoranthene	16.896	252	36271	5.57	ppm	98
95)	Benzo[a]pyrene	17.473	252	33080	5.37	ppm	92
96)	Indeno[1,2,3-cd]pyrene	19.532	276	31114	5.28	ppm	79
97)	Dibenz(a,h)acridine	19.179	279	28277	5.34	ppm	84
98)	Dibenz[a,h]anthracene	19.602	278	31118	5.29	ppm	93
99)	7,12-Dimethylbenz(a)an...	16.858	256	14729	5.00	ppm	88
100)	Benzo[g,h,i]perylene	19.960	276	31997	5.27	ppm	94

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

7.6.47

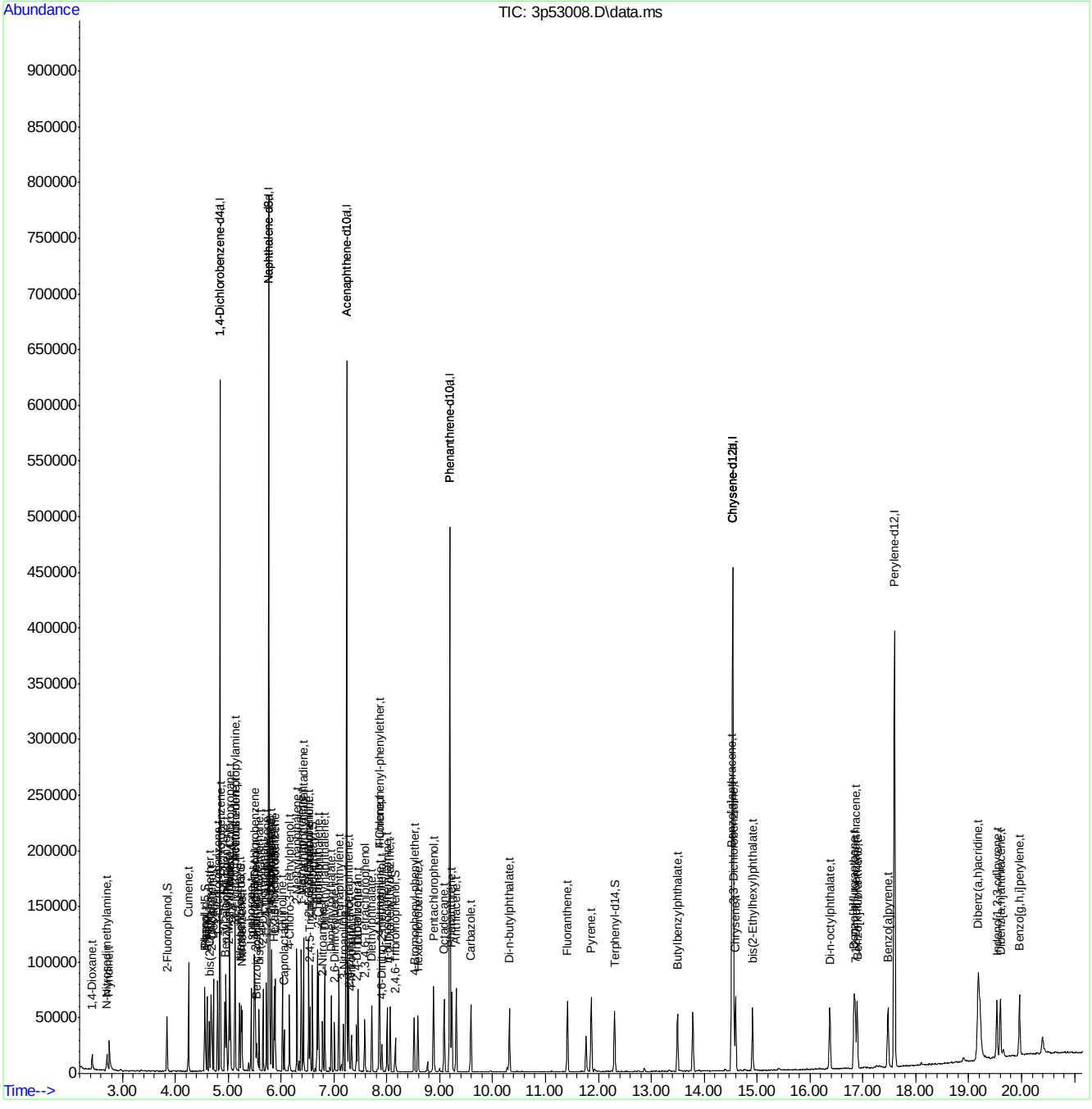
7

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2413\
Data File : 3p53008.D
Acq On : 29 Apr 2016 12:08 pm
Operator : robertl1
Sample : IC2413-5
Misc : op93185,e3p2413
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 29 12:58:24 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2413.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 29 11:36:51 2016
Response via : Initial Calibration



SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2413\
Data File : 3p53009.D
Acq On : 29 Apr 2016 12:35 pm
Operator : robertl1
Sample : IC2413-10
Misc : op93185,e3p2413
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 29 12:59:42 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2413.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 29 12:53:41 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.845	152	73658	40.00	ppm	0.00
24) Naphthalene-d8	5.771	136	251858	40.00	ppm	0.00
47) Acenaphthene-d10	7.241	164	138480	40.00	ppm	0.00
69) Phenanthrene-d10	9.194	188	229869	40.00	ppm	0.00
83) Chrysene-d12	14.542	240	245283	40.00	ppm	-0.01
91) Perylene-d12	17.596	264	220647	40.00	ppm	-0.01
101) 1,4-Dichlorobenzene-d4a	4.845	152	73658	40.00	ppm	0.00
103) Acenaphthene-d10a	7.241	164	138480	40.00	ppm	0.00
106) Chrysene-d12a	14.542	240	245283	40.00	ppm	-0.01
108) Naphthalene-d8a	5.771	136	251858	40.00	ppm	0.00
110) Phenanthrene-d10a	9.194	188	229869	40.00	ppm	0.00
113) Chrysene-d12b	14.542	240	245283	40.00	ppm	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	3.845	112	22847	9.05	ppm	0.00
Spiked Amount 50.000			Recovery	=	18.10%	
8) Phenol-d5	4.556	99	28074	8.79	ppm	0.00
Spiked Amount 50.000			Recovery	=	17.58%	
25) Nitrobenzene-d5	5.246	82	24063	9.36	ppm	0.00
Spiked Amount 50.000			Recovery	=	18.72%	
51) 2-Fluorobiphenyl	6.594	172	43530	9.43	ppm	0.00
Spiked Amount 50.000			Recovery	=	18.86%	
73) 2,4,6-Tribromophenol	8.161	330	6728	9.94	ppm	0.00
Spiked Amount 50.000			Recovery	=	19.88%	
85) Terphenyl-d14	12.307	244	45848	9.42	ppm	0.00
Spiked Amount 50.000			Recovery	=	18.84%	
111) O-Terphenyl	0.000	230	0	0.00	ppm	
112) 1-Chlorooctadecane	0.000	57	0	0.00	ppm	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.428	88	9630	8.31	ppm	99
3) Pyridine	2.749	79	24214	8.89	ppm	86
4) N-Nitrosodimethylamine	2.706	42	11255	8.21	ppm #	43
6) Indene	5.032	116	38176	9.47	ppm	97
7) Cumene	4.252	105	55072	8.96	ppm	96
9) Phenol	4.567	94	28325	8.71	ppm	76
10) Aniline	4.599	93	33540	9.02	ppm	80
11) bis(2-Chloroethyl)ether	4.647	93	21192	8.88	ppm	90
12) 2-Chlorophenol	4.685	128	23711	9.16	ppm	95
13) Decane	4.717	43	24784	9.11	ppm	96
14) 1,3-Dichlorobenzene	4.802	146	27062	9.32	ppm	96
15) 1,4-Dichlorobenzene	4.856	146	27415	9.24	ppm	97
16) Benzyl alcohol	4.941	108	14531	9.38	ppm #	68
17) 1,2-Dichlorobenzene	4.968	146	26169	9.66	ppm	99
18) Acetophenone	5.134	105	30156	9.54	ppm	98
19) 2-Methylphenol	5.016	108	19885	9.40	ppm	99
20) 2,2'-oxybis(1-Chloropr...	5.038	45	31226	9.23	ppm #	63
21) 3&4-Methylphenol	5.123	108	21433	9.51	ppm	95
22) n-Nitroso-di-n-propyla...	5.134	70	16601	8.87	ppm	96

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2413\
Data File : 3p53009.D
Acq On : 29 Apr 2016 12:35 pm
Operator : robertl1
Sample : IC2413-10
Misc : op93185,e3p2413
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 29 12:59:42 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2413.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 29 12:53:41 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
23) Hexachloroethane	5.220	201	9394	9.33	ppm		88
26) Nitrobenzene	5.262	77	24142	9.20	ppm		91
27) Quinoline	6.027	129	40251	9.49	ppm		98
28) Isophorone	5.434	82	40547	9.26	ppm		88
29) 2-Nitrophenol	5.492	139	12372	9.50	ppm		84
30) 2,4-Dimethylphenol	5.514	107	20804	9.42	ppm		89
31) Benzoic acid	5.551	105	16447	8.97	ppm	#	70
32) bis(2-Chloroethoxy)met...	5.583	93	24689	9.38	ppm		94
33) 2,4-Dichlorophenol	5.658	162	18513	9.36	ppm		94
34) 2,6-Dichlorophenol	5.824	162	17855	9.26	ppm		95
35) 1,3,5-Trichlorobenzene	5.498	180	22053	9.50	ppm		99
36) 1,2,4-Trichlorobenzene	5.728	180	20999	9.41	ppm		99
37) 1,2,3-Trichlorobenzene	5.888	180	20665	9.79	ppm		94
38) Naphthalene	5.787	128	62352	9.38	ppm		99
39) 4-Chloroaniline	5.819	127	25971	9.35	ppm		94
40) 2,3-Dichloroaniline	6.525	161	22801	9.73	ppm		99
41) Caprolactam	6.059	113	6443	9.57	ppm		87
42) Hexachlorobutadiene	5.872	225	11869	9.38	ppm		82
43) 4-Chloro-3-methylphenol	6.161	107	17174	9.24	ppm		97
44) 2-Methylnaphthalene	6.300	141	35148	9.39	ppm		94
45) 1-Methylnaphthalene	6.380	141	36958	9.62	ppm		92
46) Dimethylnaphthalene	6.824	156	35791	9.58	ppm		97
48) Hexachlorocyclopentadiene	6.423	237	26480	18.91	ppm		98
49) 2,4,6-Trichlorophenol	6.519	196	13090	9.14	ppm		97
50) 2,4,5-Trichlorophenol	6.551	196	14081	9.54	ppm		97
52) 2-Chloronaphthalene	6.707	162	38261	9.39	ppm		95
53) Biphenyl	6.685	154	48045	9.24	ppm		96
54) 2-Nitroaniline	6.787	65	11833	9.28	ppm		98
55) Dimethylphthalate	6.953	163	41340	9.30	ppb		97
56) Acenaphthylene	7.097	152	62223	9.41	ppm		99
57) 2,6-Dinitrotoluene	7.017	165	9645	9.37	ppm		93
58) 3-Nitroaniline	7.183	138	10984	9.50	ppm		97
59) Acenaphthene	7.274	153	39211	9.35	ppm		98
60) 2,4-Dinitrophenol	7.290	184	9011	17.65	ppm	#	68
61) 4-Nitrophenol	7.332	109	5612	9.29	ppm	#	49
62) Dibenzofuran	7.455	168	52892	9.46	ppm		97
63) 2,4-Dinitrotoluene	7.429	165	12675	9.38	ppm	#	55
64) 2,3,4,6-Tetrachlorophenol	7.584	232	11321	9.09	ppm		93
65) Diethylphthalate	7.717	149	41926	9.21	ppm		97
66) Fluorene	7.856	166	42686	9.21	ppm		96
67) 4-Chlorophenyl-phenyle...	7.862	204	20177	9.20	ppm		95
68) 4-Nitroaniline	7.867	138	11168	9.63	ppm	#	73
70) 4,6-Dinitro-2-methylph...	7.905	198	7008	9.52	ppm		88
71) n-Nitrosodiphenylamine	8.006	169	28324	9.37	ppm		96
72) 1,2-Diphenylhydrazine	8.060	77	43440	9.39	ppm		95
74) 4-Bromophenyl-phenylether	8.520	248	12046	9.22	ppm		93
75) Hexachlorobenzene	8.589	284	13739	9.58	ppm		93
76) Pentachlorophenol	8.883	266	18725	18.47	ppm		96
77) Phenanthrene	9.231	178	61848	9.47	ppm		95
78) Anthracene	9.311	178	62614	9.48	ppm		99

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2413\
Data File : 3p53009.D
Acq On : 29 Apr 2016 12:35 pm
Operator : robertl1
Sample : IC2413-10
Misc : op93185,e3p2413
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 29 12:59:42 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2413.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 29 12:53:41 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
79)	Carbazole	9.589	167	56175	9.48	ppm	95
80)	Di-n-butylphthalate	10.317	149	73666	9.21	ppm	98
81)	Fluoranthene	11.413	202	69589	9.25	ppm	97
82)	Octadecane	9.087	57	26525	9.26	ppm	89
84)	Pyrene	11.868	202	73982	9.50	ppm	95
86)	Butylbenzylphthalate	13.494	149	33155	9.21	ppm	99
87)	Benzo[a]anthracene	14.521	228	68011	9.22	ppm	98
88)	3,3'-Dichlorobenzidine	14.558	252	25031	9.74	ppm	96
89)	Chrysene	14.596	228	64702	9.54	ppm	94
90)	bis(2-Ethylhexyl)phtha...	14.917	149	45010	9.24	ppm	96
92)	Di-n-octylphthalate	16.372	149	80413	9.15	ppm	96
93)	Benzo[b]fluoranthene	16.837	252	68682	9.44	ppm	98
94)	Benzo[k]fluoranthene	16.896	252	64351	9.62	ppm	100
95)	Benzo[a]pyrene	17.473	252	59766	9.46	ppm	90
96)	Indeno[1,2,3-cd]pyrene	19.533	276	55391	9.27	ppm	78
97)	Dibenz(a,h)acridine	19.180	279	49497	9.09	ppm	84
98)	Dibenz[a,h]anthracene	19.602	278	54631	9.16	ppm	95
99)	7,12-Dimethylbenz(a)an...	16.858	256	27507	9.32	ppm	89
100)	Benzo[g,h,i]perylene	19.960	276	55761	9.02	ppm	93

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

7.6.48

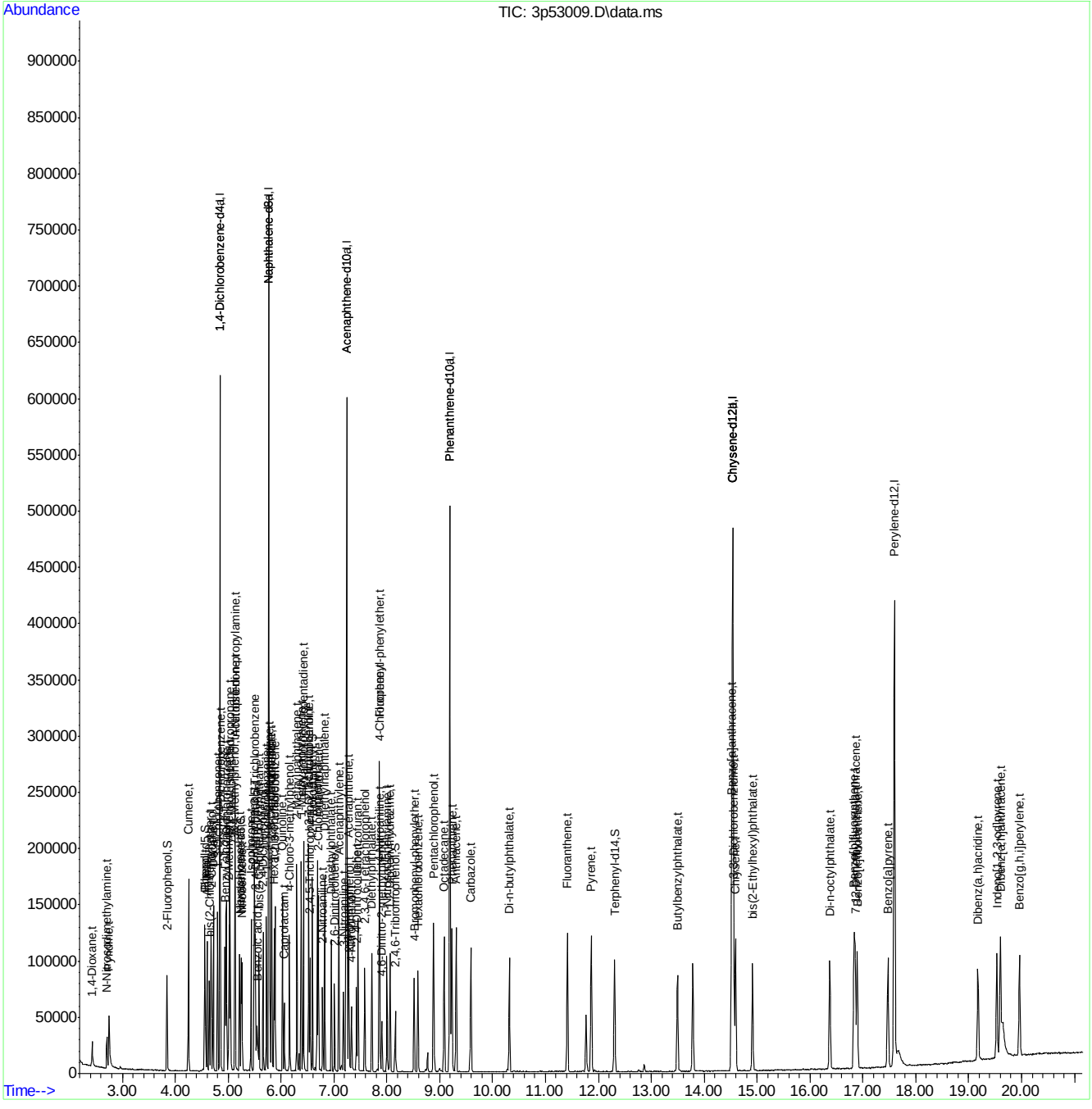
7

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2413\
Data File : 3p53009.D
Acq On : 29 Apr 2016 12:35 pm
Operator : robertl1
Sample : IC2413-10
Misc : op93185,e3p2413
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 29 12:59:42 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2413.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 29 12:53:41 2016
Response via : Initial Calibration



M3P2413.M Fri Apr 29 12:59:47 2016 Page: 4

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2414\
Data File : 3p53011.D
Acq On : 29 Apr 2016 1:42 pm
Operator : robertl1
Sample : ICC2414-50
Misc : op93185,e3p2414
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 29 15:26:31 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2413.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 29 15:17:09 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.845	152	68679	40.00	ppm	0.00
24) Naphthalene-d8	5.770	136	250344	40.00	ppm	0.00
47) Acenaphthene-d10	7.241	164	138589	40.00	ppm	0.00
69) Phenanthrene-d10	9.193	188	230545	40.00	ppm	0.00
83) Chrysene-d12	14.542	240	231081	40.00	ppm	-0.01
91) Perylene-d12	17.596	264	211888	40.00	ppm	-0.01
101) 1,4-Dichlorobenzene-d4a	4.845	152	68679	40.00	ppm	0.00
103) Acenaphthene-d10a	7.241	164	138589	40.00	ppm	0.00
106) Chrysene-d12a	14.542	240	231081	40.00	ppm	0.00
108) Naphthalene-d8a	5.770	136	250344	40.00	ppm	0.00
110) Phenanthrene-d10a	9.193	188	230545	40.00	ppm	0.00
113) Chrysene-d12b	14.542	240	231081	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
111) O-Terphenyl	9.889	230	154440	51.92	ppm	0.00
112) 1-Chlorooctadecane	11.381	57	86518	51.67	ppm	0.00
Target Compounds						Qvalue
102) Benzaldehyde	4.519	105	84237	51.80	ppm	98
104) Atrazine	8.782	215	30321	52.23	ppm	97
105) 1,2,4,5-Tetrachloroben...	6.434	216	100570	51.22	ppm	98
107) Benzidine	11.771	184	171071	55.32	ppm	99
109) Hydroquinone	6.043	110	99641	58.66	ppm	91

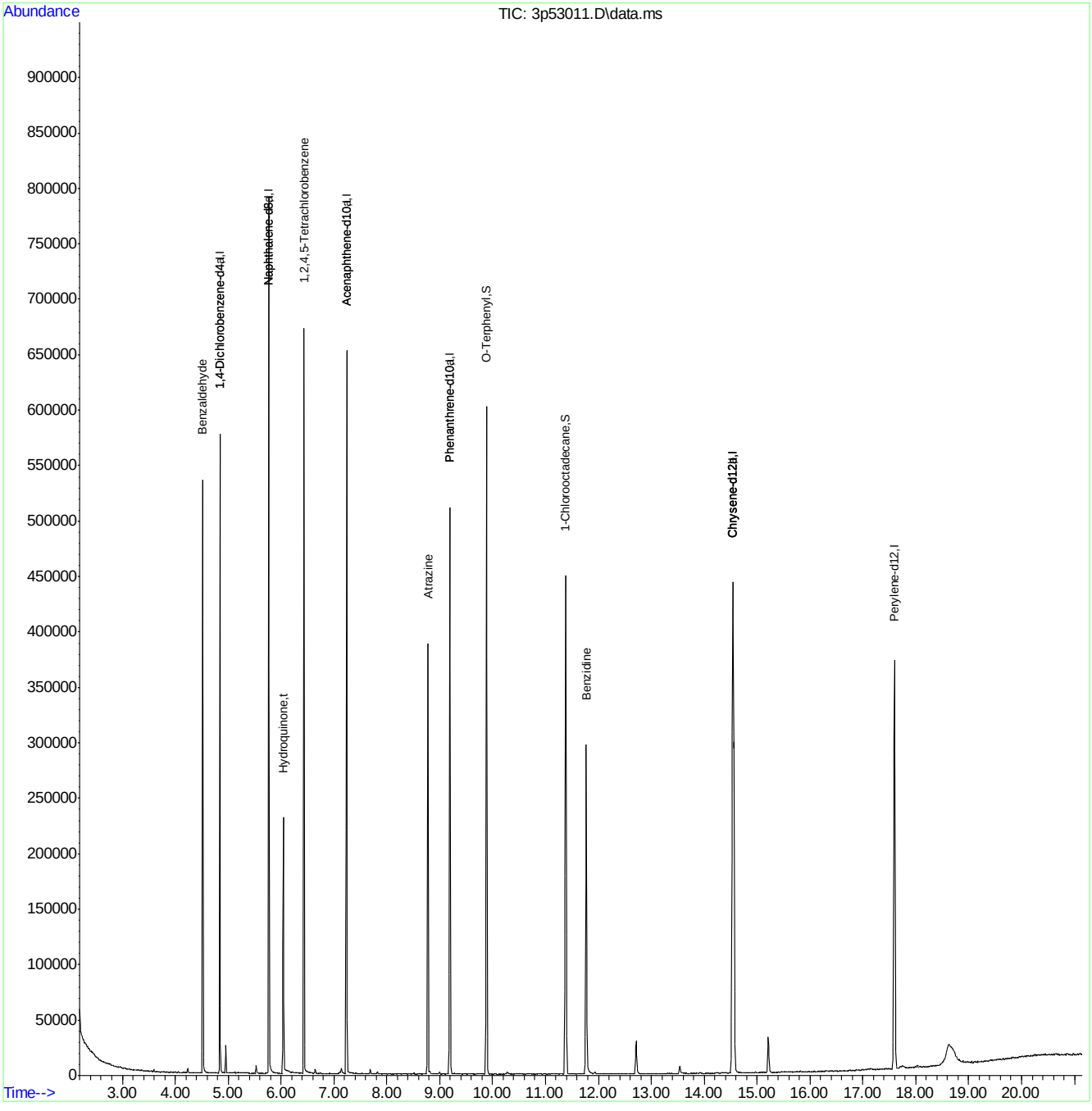
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2414\
Data File : 3p53011.D
Acq On : 29 Apr 2016 1:42 pm
Operator : robertl1
Sample : ICC2414-50
Misc : op93185,e3p2414
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 29 15:26:31 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2413.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 29 15:17:09 2016
Response via : Initial Calibration



SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2414\
Data File : 3p53012.D
Acq On : 29 Apr 2016 2:09 pm
Operator : robertl1
Sample : IC2414-25
Misc : op93185,e3p2414
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 29 15:17:33 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2413.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 29 15:17:09 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.845	152	65411	40.00	ppm	0.00
24) Naphthalene-d8	5.770	136	240464	40.00	ppm	0.00
47) Acenaphthene-d10	7.236	164	134007	40.00	ppm	0.00
69) Phenanthrene-d10	9.193	188	233113	40.00	ppm	0.00
83) Chrysene-d12	14.537	240	236455	40.00	ppm	-0.02
91) Perylene-d12	17.602	264	211232	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.845	152	65411	40.00	ppm	0.00
103) Acenaphthene-d10a	7.236	164	134007	40.00	ppm	0.00
106) Chrysene-d12a	14.537	240	236455	40.00	ppm	0.00
108) Naphthalene-d8a	5.770	136	240464	40.00	ppm	0.00
110) Phenanthrene-d10a	9.193	188	233113	40.00	ppm	0.00
113) Chrysene-d12b	14.537	240	236455	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
111) O-Terphenyl	9.883	230	73279	24.36	ppm	0.00
112) 1-Chlorooctadecane	11.381	57	42000	24.81	ppm	0.00
Target Compounds						Qvalue
102) Benzaldehyde	4.519	105	39769	25.68	ppm	97
104) Atrazine	8.776	215	13880	24.73	ppm	90
105) 1,2,4,5-Tetrachloroben...	6.434	216	47129	24.82	ppm	99
107) Benzidine	11.766	184	84350	26.66	ppm	98
109) Hydroquinone	6.038	110	43299	26.54	ppm	90

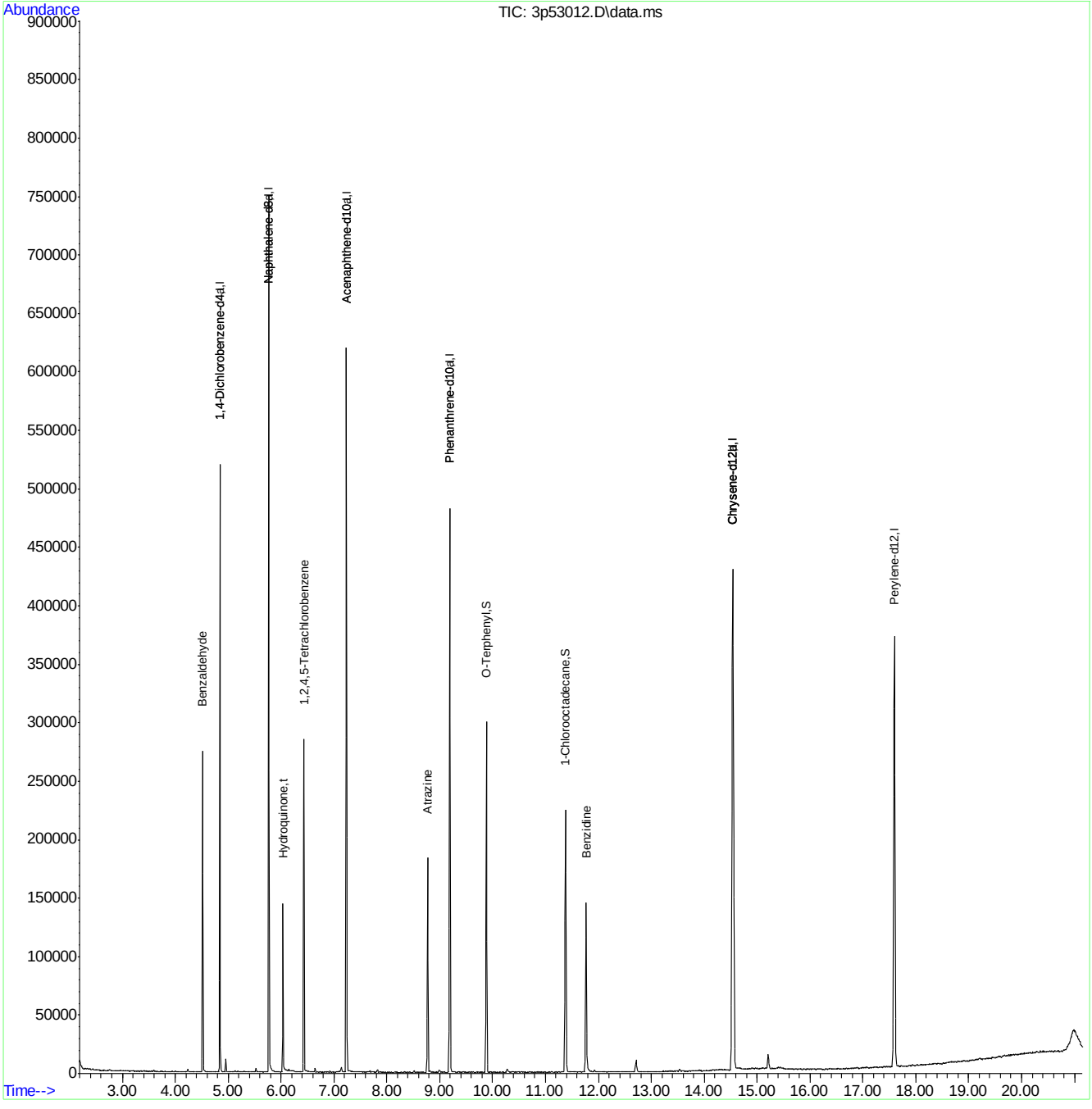
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2414\
Data File : 3p53012.D
Acq On : 29 Apr 2016 2:09 pm
Operator : robertl1
Sample : IC2414-25
Misc : op93185,e3p2414
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 29 15:17:33 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2413.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 29 15:17:09 2016
Response via : Initial Calibration



SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2414\
Data File : 3p53013.D
Acq On : 29 Apr 2016 2:36 pm
Operator : robertl1
Sample : IC2414-1
Misc : op93185,e3p2414
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 29 15:18:30 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2413.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 29 15:17:09 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.845	152	53944	40.00	ppm	0.00
24) Naphthalene-d8	5.770	136	199294	40.00	ppm	0.00
47) Acenaphthene-d10	7.236	164	118570	40.00	ppm	0.00
69) Phenanthrene-d10	9.188	188	207315	40.00	ppm	-0.01
83) Chrysene-d12	14.537	240	210686	40.00	ppm	-0.02
91) Perylene-d12	17.596	264	189373	40.00	ppm	-0.01
101) 1,4-Dichlorobenzene-d4a	4.845	152	53944	40.00	ppm	0.00
103) Acenaphthene-d10a	7.236	164	118570	40.00	ppm	0.00
106) Chrysene-d12a	14.537	240	210686	40.00	ppm	0.00
108) Naphthalene-d8a	5.770	136	199294	40.00	ppm	0.00
110) Phenanthrene-d10a	9.188	188	207315	40.00	ppm	0.00
113) Chrysene-d12b	14.537	240	210686	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
111) O-Terphenyl	9.884	230	2640	0.99	ppm	0.00
112) 1-Chlorooctadecane	11.376	57	1467	0.97	ppm	0.00
Target Compounds						Qvalue
102) Benzaldehyde	4.519	105	1197	0.94	ppm	99
104) Atrazine	8.766	215	480	0.97	ppm	88
105) 1,2,4,5-Tetrachloroben...	6.428	216	1651	0.98	ppm	97
107) Benzidine	11.761	184	2333	0.83	ppm	97
109) Hydroquinone	6.033	110	1035	0.77	ppm	94

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

7.6.51

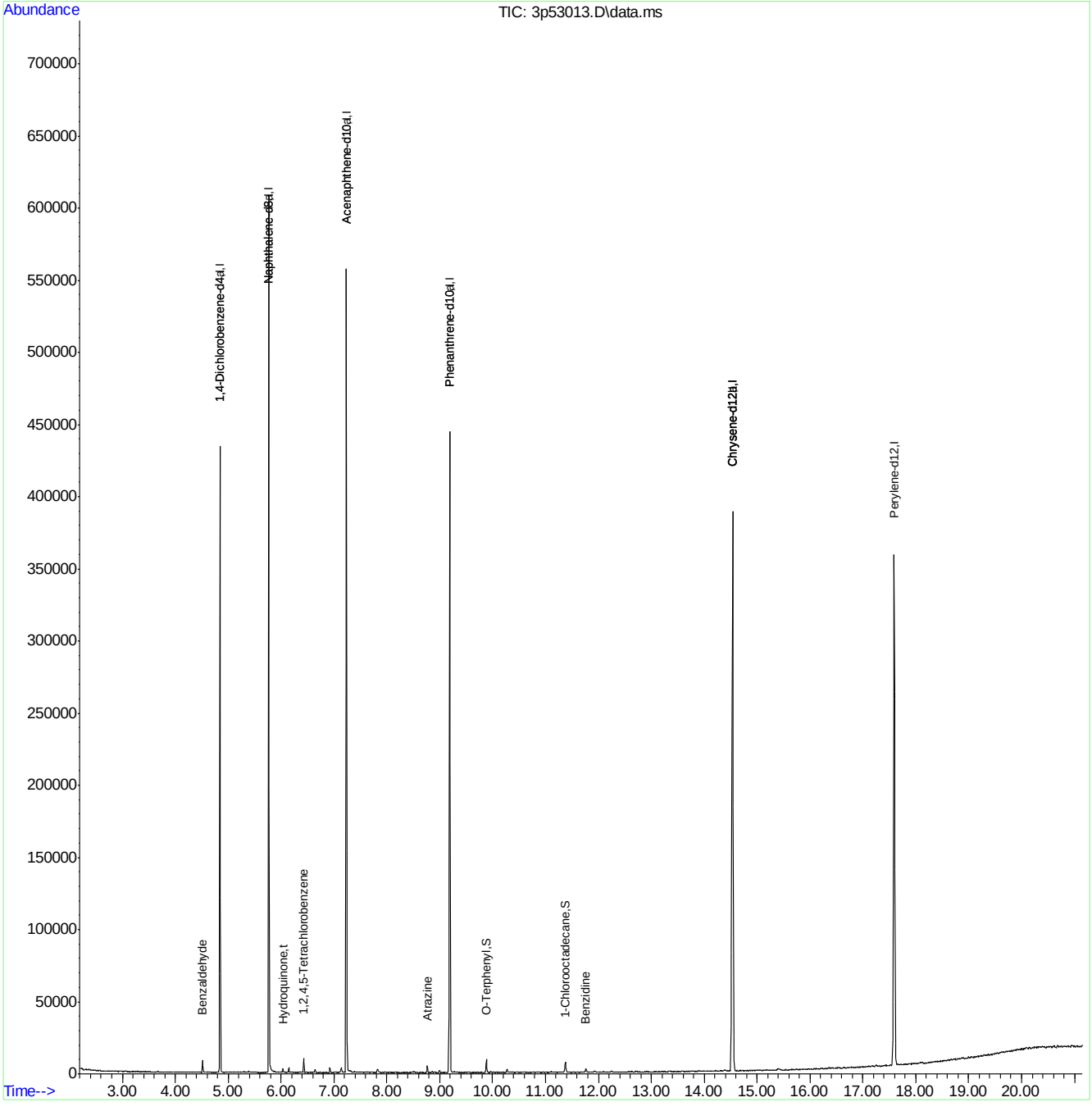
7

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2414\
Data File : 3p53013.D
Acq On : 29 Apr 2016 2:36 pm
Operator : robertl1
Sample : IC2414-1
Misc : op93185,e3p2414
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 29 15:18:30 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2413.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 29 15:17:09 2016
Response via : Initial Calibration



SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2414\
Data File : 3p53014.D
Acq On : 29 Apr 2016 3:03 pm
Operator : robertl1
Sample : IC2414-2
Misc : op93185,e3p2414
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 29 15:26:51 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2413.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 29 15:17:09 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.845	152	73876	40.00	ppm	0.00
24) Naphthalene-d8	5.770	136	270209	40.00	ppm	0.00
47) Acenaphthene-d10	7.236	164	155476	40.00	ppm	0.00
69) Phenanthrene-d10	9.188	188	261445	40.00	ppm	-0.01
83) Chrysene-d12	14.537	240	257785	40.00	ppm	-0.02
91) Perylene-d12	17.596	264	234359	40.00	ppm	-0.01
101) 1,4-Dichlorobenzene-d4a	4.845	152	73876	40.00	ppm	0.00
103) Acenaphthene-d10a	7.236	164	155476	40.00	ppm	0.00
106) Chrysene-d12a	14.537	240	257785	40.00	ppm	0.00
108) Naphthalene-d8a	5.770	136	270209	40.00	ppm	0.00
110) Phenanthrene-d10a	9.188	188	261445	40.00	ppm	0.00
113) Chrysene-d12b	14.537	240	257785	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
111) O-Terphenyl	9.884	230	6845	2.03	ppm	0.00
112) 1-Chlorooctadecane	11.376	57	3669	1.93	ppm	0.00
Target Compounds						Qvalue
102) Benzaldehyde	4.519	105	3587	2.05	ppm	96
104) Atrazine	8.766	215	1148	1.76	ppm	87
105) 1,2,4,5-Tetrachloroben...	6.428	216	4176	1.90	ppm	99
107) Benzidine	11.761	184	5566	1.61	ppm	99
109) Hydroquinone	6.033	110	2669	1.46	ppm	93

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

7.6.52

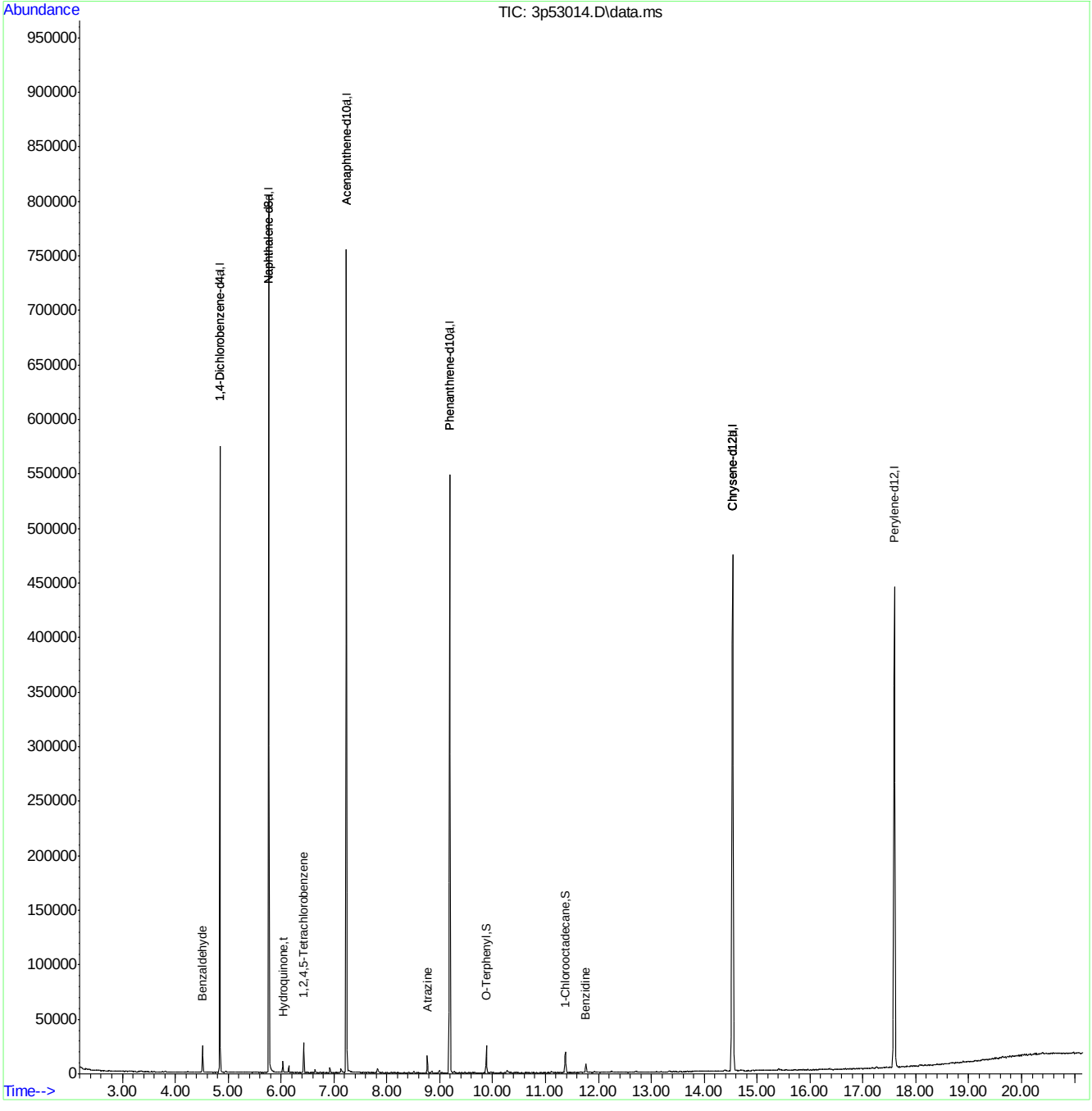
7

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2414\
Data File : 3p53014.D
Acq On : 29 Apr 2016 3:03 pm
Operator : robertl1
Sample : IC2414-2
Misc : op93185,e3p2414
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 29 15:26:51 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2413.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 29 15:17:09 2016
Response via : Initial Calibration



M3P2413.M Mon May 02 10:00:13 2016 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2414\
Data File : 3p53015.D
Acq On : 29 Apr 2016 3:30 pm
Operator : robertl1
Sample : IC2414-5
Misc : op93185,e3p2414
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 29 16:06:23 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2413.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 29 15:27:51 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.845	152	89757	40.00	ppm	0.00
24) Naphthalene-d8	5.770	136	332646	40.00	ppm	0.00
47) Acenaphthene-d10	7.236	164	186853	40.00	ppm	0.00
69) Phenanthrene-d10	9.194	188	315602	40.00	ppm	0.00
83) Chrysene-d12	14.537	240	319222	40.00	ppm	-0.02
91) Perylene-d12	17.602	264	290310	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.845	152	89757	40.00	ppm	0.00
103) Acenaphthene-d10a	7.236	164	186853	40.00	ppm	0.00
106) Chrysene-d12a	14.537	240	319222	40.00	ppm	0.00
108) Naphthalene-d8a	5.770	136	332646	40.00	ppm	0.00
110) Phenanthrene-d10a	9.194	188	315602	40.00	ppm	0.00
113) Chrysene-d12b	14.537	240	319222	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
111) O-Terphenyl	9.883	230	19875	4.86	ppm	0.00
112) 1-Chlorooctadecane	11.376	57	10828	4.76	ppm	0.00
Target Compounds						Qvalue
102) Benzaldehyde	4.519	105	10752	5.03	ppm	96
104) Atrazine	8.766	215	3538	4.66	ppm	93
105) 1,2,4,5-Tetrachloroben...	6.428	216	12818	4.91	ppm	100
107) Benzidine	11.761	184	17691	4.35	ppm	95
109) Hydroquinone	6.032	110	9211	4.38	ppm	91

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

7.6.53

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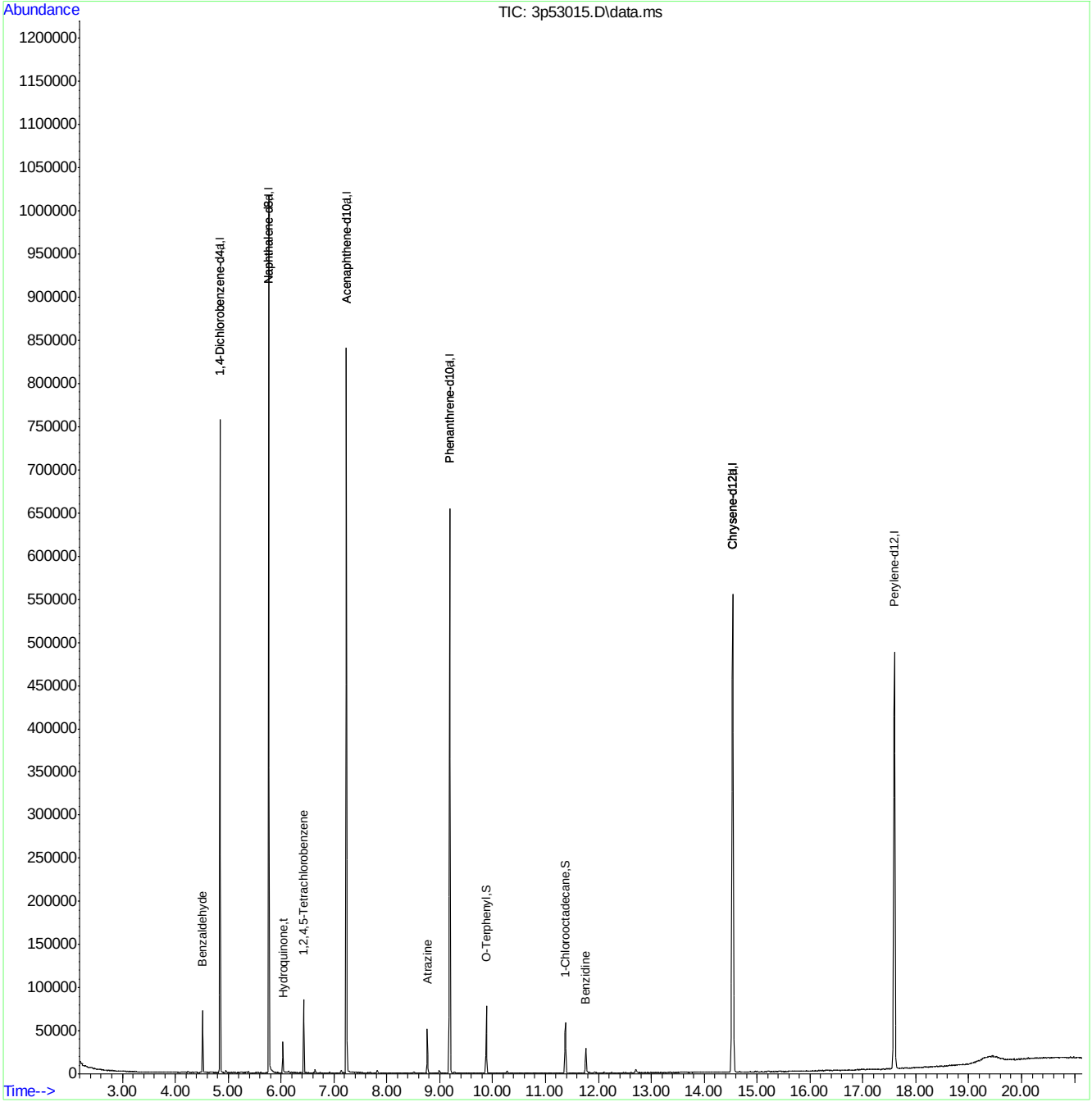
SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2414\
Data File : 3p53015.D
Acq On : 29 Apr 2016 3:30 pm
Operator : robertl1
Sample : IC2414-5
Misc : op93185,e3p2414
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 29 16:06:23 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2413.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 29 15:27:51 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2414\
Data File : 3p53016.D
Acq On : 29 Apr 2016 3:57 pm
Operator : robertl1
Sample : IC2414-10
Misc : op93185,e3p2414
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 29 16:53:44 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2413.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 29 16:07:48 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.845	152	73757	40.00	ppm	0.00
24) Naphthalene-d8	5.771	136	264723	40.00	ppm	0.00
47) Acenaphthene-d10	7.236	164	149046	40.00	ppm	0.00
69) Phenanthrene-d10	9.188	188	250238	40.00	ppm	-0.01
83) Chrysene-d12	14.537	240	256304	40.00	ppm	-0.02
91) Perylene-d12	17.596	264	234503	40.00	ppm	-0.01
101) 1,4-Dichlorobenzene-d4a	4.845	152	73757	40.00	ppm	0.00
103) Acenaphthene-d10a	7.236	164	149046	40.00	ppm	0.00
106) Chrysene-d12a	14.537	240	256304	40.00	ppm	0.00
108) Naphthalene-d8a	5.771	136	264723	40.00	ppm	0.00
110) Phenanthrene-d10a	9.188	188	250238	40.00	ppm	0.00
113) Chrysene-d12b	14.537	240	256304	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
111) O-Terphenyl	9.884	230	34616	10.74	ppm	0.00
112) 1-Chlorooctadecane	11.376	57	18907	10.59	ppm	0.00
Target Compounds						Qvalue
102) Benzaldehyde	4.519	105	18370	10.44	ppm	97
104) Atrazine	8.771	215	6550	10.96	ppm	94
105) 1,2,4,5-Tetrachloroben...	6.428	216	22246	10.71	ppm	96
107) Benzidine	11.761	184	34632	10.89	ppm	99
109) Hydroquinone	6.033	110	18401	11.27	ppm	94

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

7.6.54

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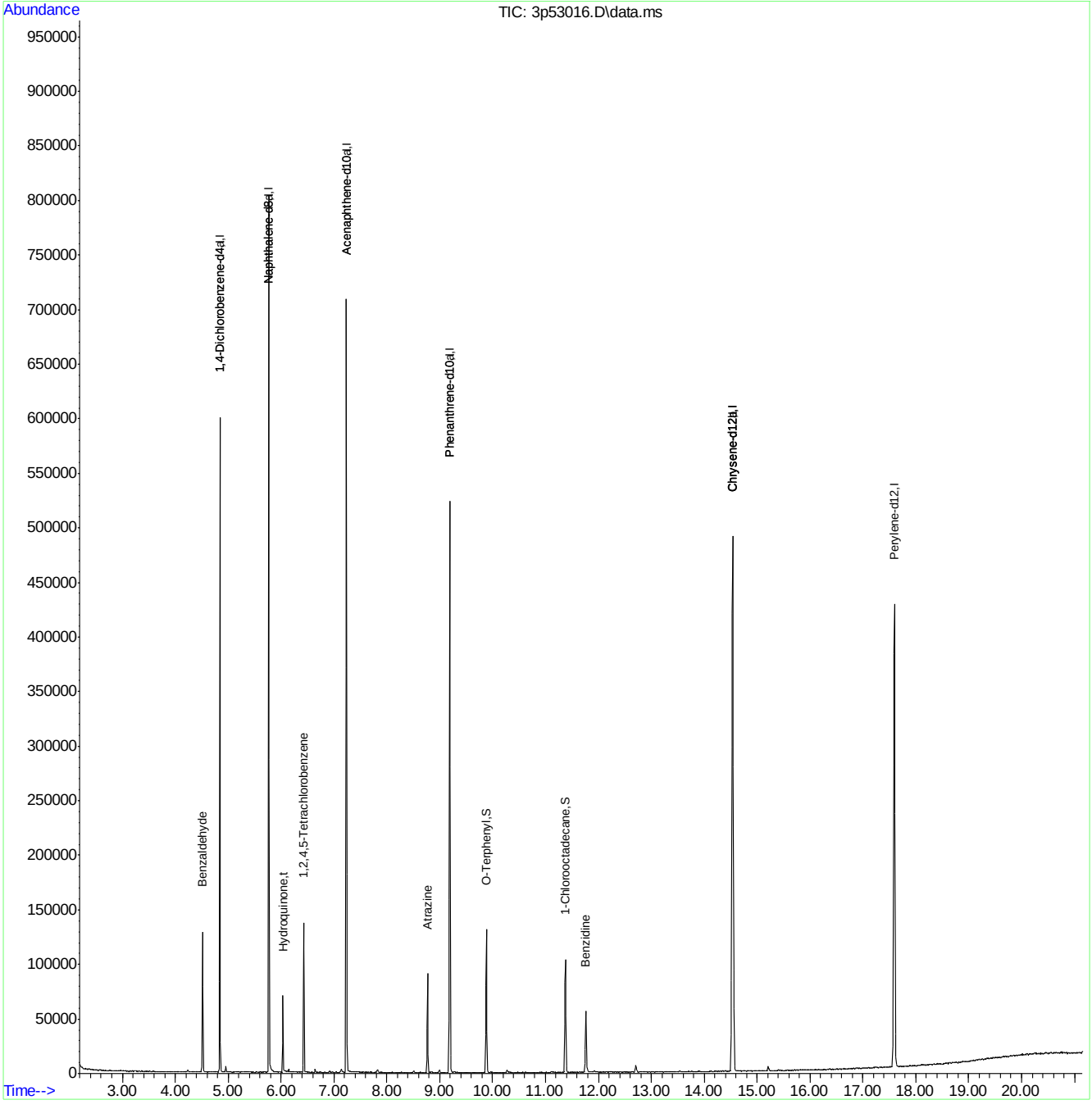
SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2414\
Data File : 3p53016.D
Acq On : 29 Apr 2016 3:57 pm
Operator : robertl1
Sample : IC2414-10
Misc : op93185,e3p2414
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 29 16:53:44 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2413.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 29 16:07:48 2016
Response via : Initial Calibration



M3P2413.M Fri Apr 29 16:53:55 2016 Page: 2

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2414\
Data File : 3p53017.D
Acq On : 29 Apr 2016 4:25 pm
Operator : robertl1
Sample : IC2414-80
Misc : op93185,e3p2414
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 29 16:54:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2413.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 29 16:07:48 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.845	152	72146	40.00	ppm	0.00
24) Naphthalene-d8	5.770	136	263170	40.00	ppm	0.00
47) Acenaphthene-d10	7.241	164	144310	40.00	ppm	0.00
69) Phenanthrene-d10	9.193	188	244589	40.00	ppm	0.00
83) Chrysene-d12	14.542	240	253084	40.00	ppm	-0.01
91) Perylene-d12	17.602	264	232333	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.845	152	72146	40.00	ppm	0.00
103) Acenaphthene-d10a	7.241	164	144310	40.00	ppm	0.00
106) Chrysene-d12a	14.542	240	253084	40.00	ppm	0.00
108) Naphthalene-d8a	5.770	136	263170	40.00	ppm	0.00
110) Phenanthrene-d10a	9.193	188	244589	40.00	ppm	0.00
113) Chrysene-d12b	14.542	240	253084	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
111) O-Terphenyl	9.889	230	255453	81.10	ppm	0.00
112) 1-Chlorooctadecane	11.386	57	140198	80.35	ppm	0.00
Target Compounds						Qvalue
102) Benzaldehyde	4.524	105	133213	77.40	ppm	97
104) Atrazine	8.787	215	48985	84.67	ppm	92
105) 1,2,4,5-Tetrachloroben...	6.434	216	165161	82.15	ppm	99
107) Benzidine	11.777	184	248244	79.07	ppm	99
109) Hydroquinone	6.054	110	150926	93.00	ppm	92

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

7.6.55

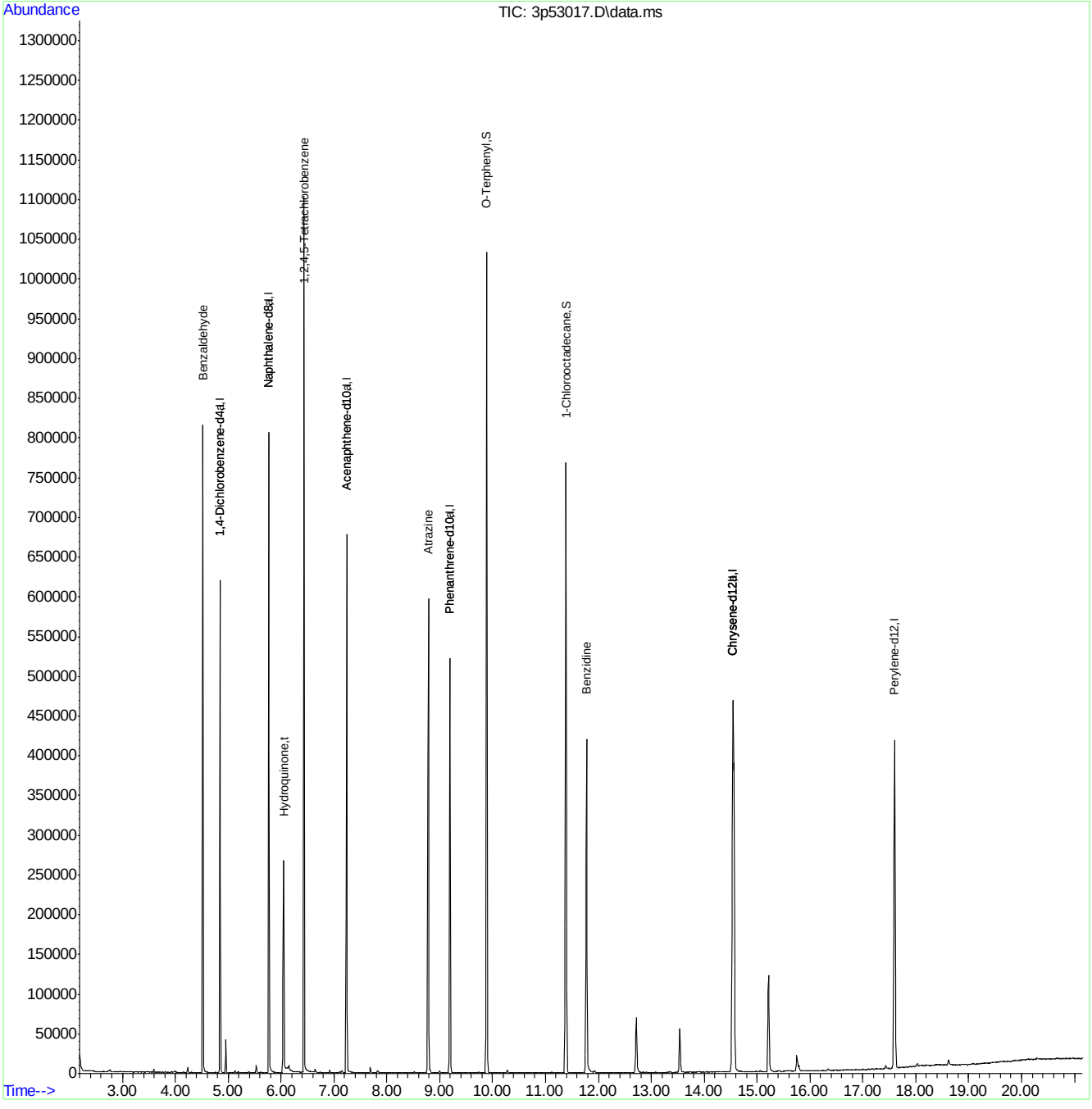
7

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2414\
Data File : 3p53017.D
Acq On : 29 Apr 2016 4:25 pm
Operator : robertl1
Sample : IC2414-80
Misc : op93185,e3p2414
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 29 16:54:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2413.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 29 16:07:48 2016
Response via : Initial Calibration



M3P2413.M Fri Apr 29 16:54:32 2016 Page: 2

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2414\
Data File : 3p53018.D
Acq On : 29 Apr 2016 4:52 pm
Operator : robertl1
Sample : IC2414-100
Misc : op93185,e3p2414
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 29 17:18:09 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2413.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 29 16:56:05 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.845	152	67315	40.00	ppm	0.00
24) Naphthalene-d8	5.770	136	253065	40.00	ppm	0.00
47) Acenaphthene-d10	7.241	164	142836	40.00	ppm	0.00
69) Phenanthrene-d10	9.194	188	238810	40.00	ppm	0.00
83) Chrysene-d12	14.542	240	239365	40.00	ppm	-0.01
91) Perylene-d12	17.602	264	219271	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.845	152	67315	40.00	ppm	0.00
103) Acenaphthene-d10a	7.241	164	142836	40.00	ppm	0.00
106) Chrysene-d12a	14.542	240	239365	40.00	ppm	0.00
108) Naphthalene-d8a	5.770	136	253065	40.00	ppm	0.00
110) Phenanthrene-d10a	9.194	188	238810	40.00	ppm	0.00
113) Chrysene-d12b	14.542	240	239365	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
111) O-Terphenyl	9.889	230	308657	99.12	ppm	0.00
112) 1-Chlorooctadecane	11.386	57	168127	97.80	ppm	0.00
Target Compounds						Qvalue
102) Benzaldehyde	4.524	105	158092	98.29	ppm	97
104) Atrazine	8.787	215	59921	102.38	ppm	92
105) 1,2,4,5-Tetrachloroben...	6.434	216	202766	100.49	ppm	99
107) Benzidine	11.777	184	250201	83.33	ppm	99
109) Hydroquinone	6.054	110	183049	112.64	ppm	93

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

7.6.56

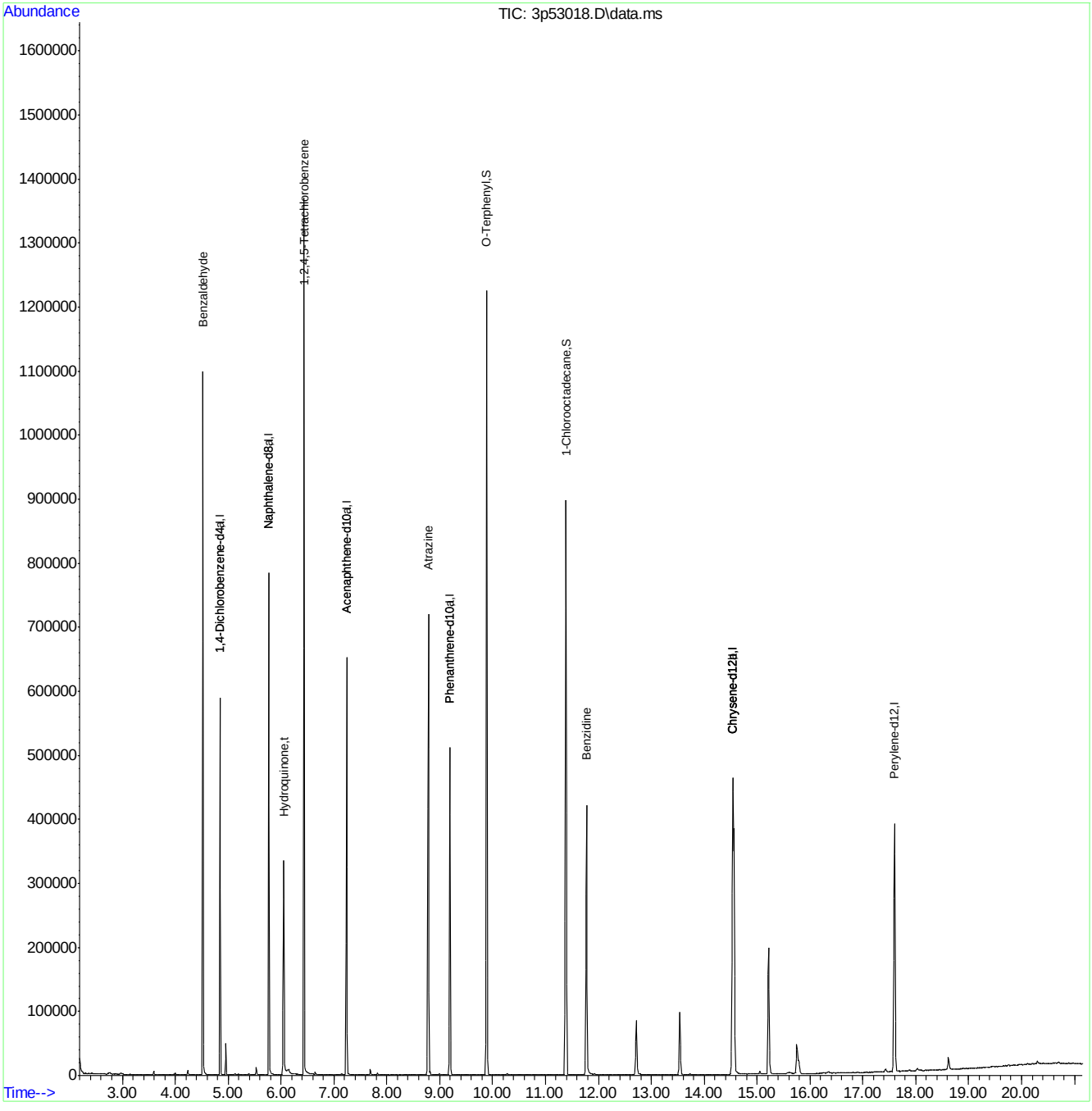
7

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2414\
Data File : 3p53018.D
Acq On : 29 Apr 2016 4:52 pm
Operator : robertl1
Sample : IC2414-100
Misc : op93185,e3p2414
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 29 17:18:09 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2413.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 29 16:56:05 2016
Response via : Initial Calibration



M3P2413.M Fri Apr 29 17:18:19 2016 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2414\
Data File : 3p53021.D
Acq On : 29 Apr 2016 6:12 pm
Operator : robertl1
Sample : ICV2413-50
Misc : op93185,e3p2414
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 02 10:25:28 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2413.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon May 02 10:04:19 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.851	152	67471	40.00	ppm	0.00
24) Naphthalene-d8	5.771	136	249798	40.00	ppm	0.00
47) Acenaphthene-d10	7.241	164	137390	40.00	ppm	0.00
69) Phenanthrene-d10	9.194	188	237640	40.00	ppm	0.00
83) Chrysene-d12	14.542	240	241326	40.00	ppm	-0.01
91) Perylene-d12	17.602	264	208990	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.851	152	67471	40.00	ppm	0.00
103) Acenaphthene-d10a	7.241	164	137390	40.00	ppm	0.00
106) Chrysene-d12a	14.542	240	241326	40.00	ppm	0.00
108) Naphthalene-d8a	5.771	136	249798	40.00	ppm	0.00
110) Phenanthrene-d10a	9.194	188	237640	40.00	ppm	0.00
113) Chrysene-d12b	14.542	240	241326	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
111) O-Terphenyl	0.000	230	0	0.00	ppm	
112) 1-Chlorooctadecane	0.000	57	0	0.00	ppm	
Target Compounds						Qvalue
3) Pyridine	2.818	79	116464	47.32	ppm	87
10) Aniline	4.610	93	178535	52.67	ppm	82
16) Benzyl alcohol	4.947	108	71963	50.69	ppm #	75
39) 4-Chloroaniline	5.819	127	133583	48.48	ppm	95
44) 2-Methylnaphthalene	6.300	141	180403	48.45	ppm	95
54) 2-Nitroaniline	6.792	65	57465	45.59	ppm	91
58) 3-Nitroaniline	7.188	138	55818	48.45	ppm	99
62) Dibenzofuran	7.461	168	275892	49.39	ppm	97
68) 4-Nitroaniline	7.873	138	53820	46.61	ppm #	77
79) Carbazole	9.595	167	297446	48.30	ppm	97

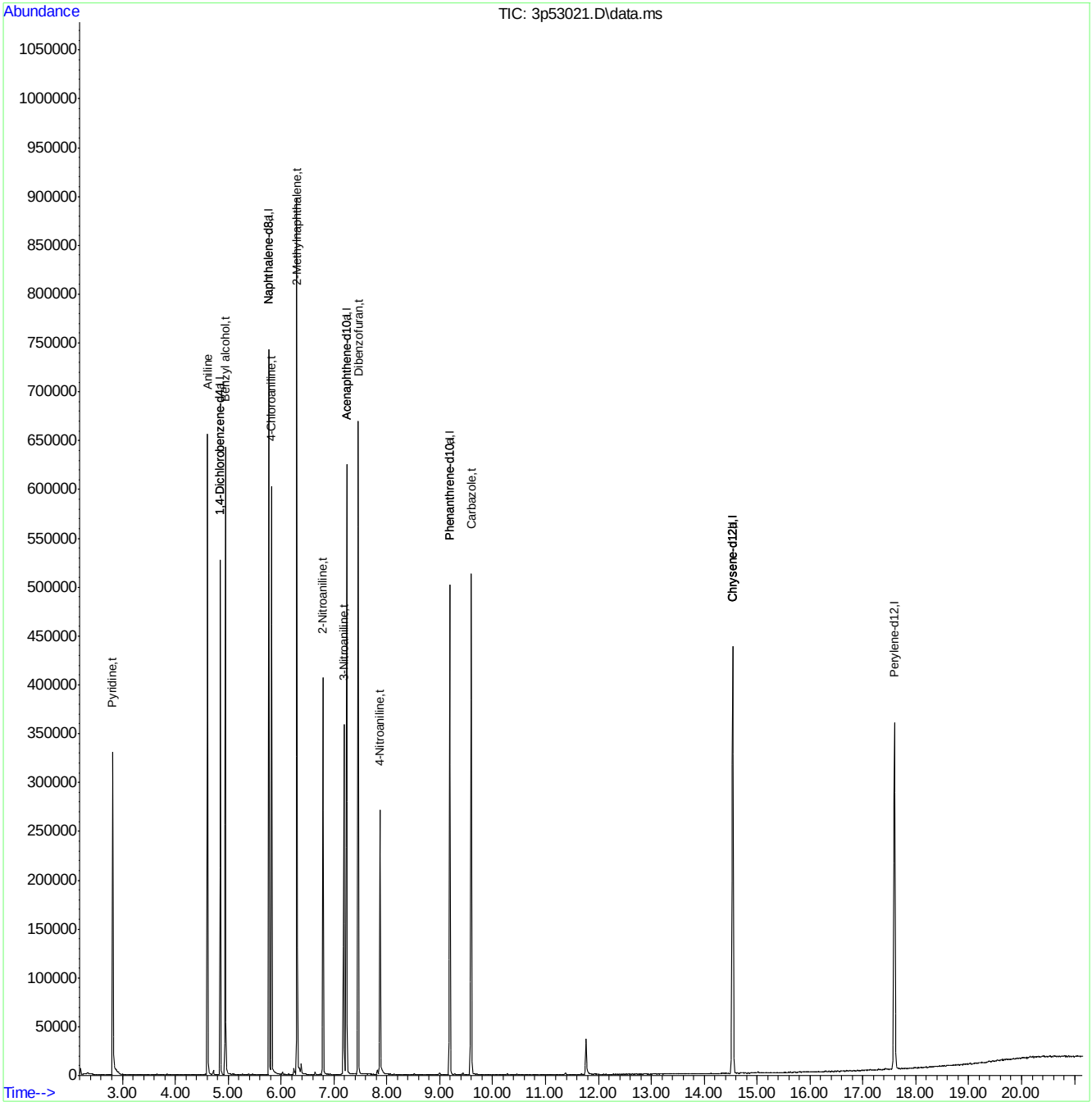
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2414\
Data File : 3p53021.D
Acq On : 29 Apr 2016 6:12 pm
Operator : robertl1
Sample : ICV2413-50
Misc : op93185,e3p2414
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 02 10:25:28 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2413.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon May 02 10:04:19 2016
Response via : Initial Calibration



M3P2413.M Mon May 02 10:25:33 2016 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2414\
Data File : 3p53022.D
Acq On : 29 Apr 2016 6:38 pm
Operator : robertl1
Sample : ICV2413-50
Misc : op93185,e3p2414
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 02 10:28:43 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2413.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon May 02 10:04:19 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.845	152	73197	40.00	ppm	0.00
24) Naphthalene-d8	5.770	136	246391	40.00	ppm	0.00
47) Acenaphthene-d10	7.241	164	137644	40.00	ppm	0.00
69) Phenanthrene-d10	9.194	188	226876	40.00	ppm	0.00
83) Chrysene-d12	14.537	240	237126	40.00	ppm	-0.02
91) Perylene-d12	17.602	264	211271	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.845	152	73197	40.00	ppm	0.00
103) Acenaphthene-d10a	7.241	164	137644	40.00	ppm	0.00
106) Chrysene-d12a	14.537	240	237126	40.00	ppm	0.00
108) Naphthalene-d8a	5.770	136	246391	40.00	ppm	0.00
110) Phenanthrene-d10a	9.194	188	226876	40.00	ppm	0.00
113) Chrysene-d12b	14.537	240	237126	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
111) O-Terphenyl	0.000	230	0	0.00	ppm	
112) 1-Chlorooctadecane	0.000	57	0	0.00	ppm	
Target Compounds						Qvalue
9) Phenol	4.567	94	139539	43.85	ppm	77
12) 2-Chlorophenol	4.685	128	120564	47.11	ppm	98
19) 2-Methylphenol	5.016	108	99280	47.07	ppm	98
21) 3&4-Methylphenol	5.123	108	103865	46.22	ppm	90
29) 2-Nitrophenol	5.492	139	61601	48.36	ppm #	69
30) 2,4-Dimethylphenol	5.514	107	109650	50.80	ppm	96
31) Benzoic acid	5.583	105	75429	42.51	ppm	78
33) 2,4-Dichlorophenol	5.663	162	94525	48.88	ppm	96
34) 2,6-Dichlorophenol	5.824	162	90738	48.25	ppm	97
43) 4-Chloro-3-methylphenol	6.161	107	82435	45.54	ppm	98
49) 2,4,6-Trichlorophenol	6.525	196	67524	47.35	ppm	94
50) 2,4,5-Trichlorophenol	6.551	196	65759	44.35	ppm	96
60) 2,4-Dinitrophenol	7.289	184	24584	42.71	ppm	76
61) 4-Nitrophenol	7.338	109	28444	47.47	ppm #	52
64) 2,3,4,6-Tetrachlorophenol	7.589	232	57083	46.55	ppm	92
70) 4,6-Dinitro-2-methylph...	7.910	198	37653	49.76	ppm	88
76) Pentachlorophenol	8.883	266	47698	47.84	ppm	93

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2414\
Data File : 3p53022.D
Acq On : 29 Apr 2016 6:38 pm
Operator : robertl1
Sample : ICV2413-50
Misc : op93185,e3p2414
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 02 10:28:43 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2413.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon May 02 10:04:19 2016
Response via : Initial Calibration

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

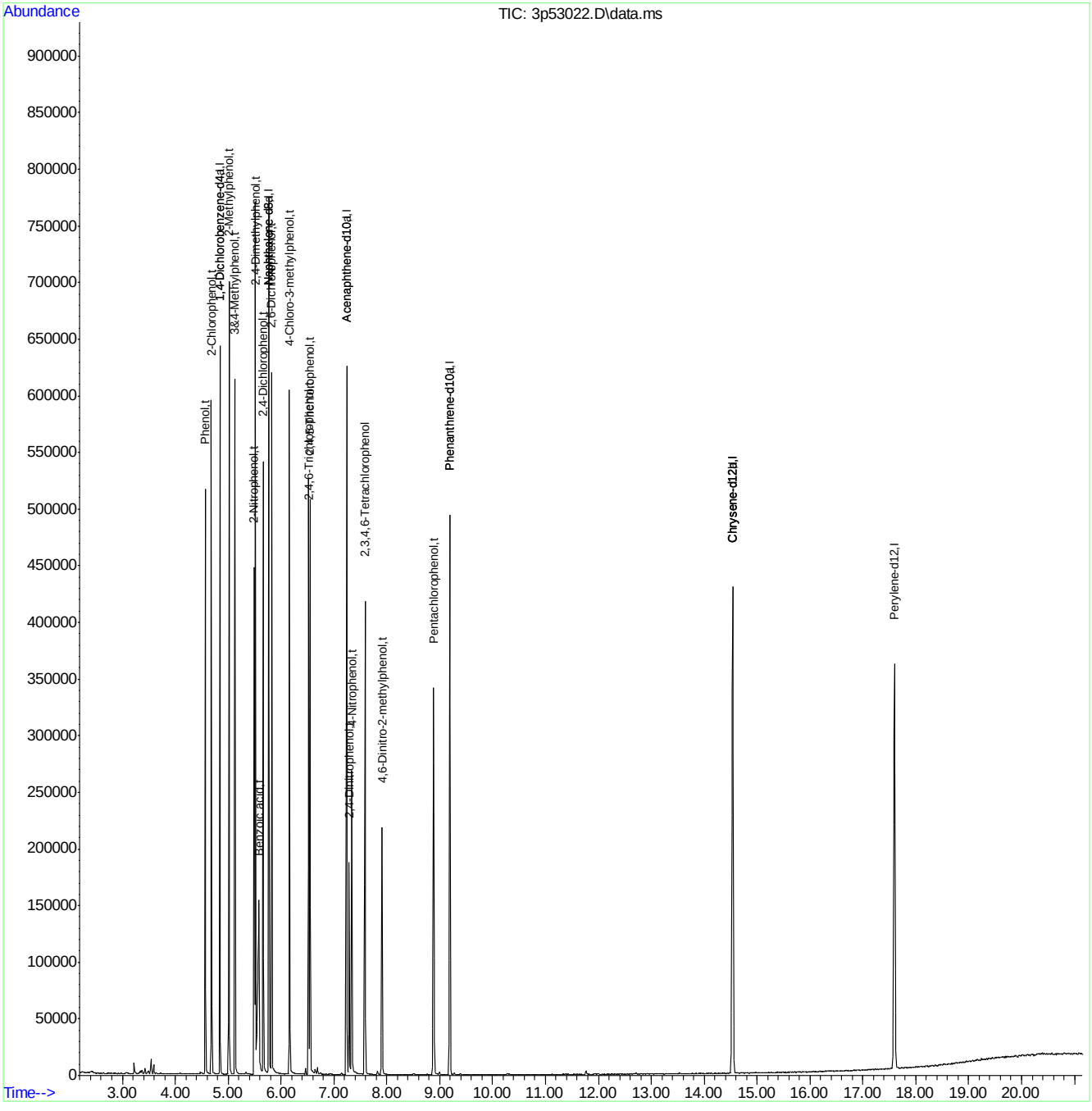
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2414\
Data File : 3p53022.D
Acq On : 29 Apr 2016 6:38 pm
Operator : robertl1
Sample : ICV2413-50
Misc : op93185,e3p2414
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 02 10:28:43 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2413.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon May 02 10:04:19 2016
Response via : Initial Calibration



M3P2413.M Mon May 02 10:28:48 2016 Page: 3

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2414\
Data File : 3p53023.D
Acq On : 29 Apr 2016 7:03 pm
Operator : robertl1
Sample : ICV2413-50
Misc : op93185,e3p2414
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 02 08:58:58 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2413.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 29 17:18:54 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.845	152	82610	40.00	ppm	0.00
24) Naphthalene-d8	5.770	136	295265	40.00	ppm	0.00
47) Acenaphthene-d10	7.241	164	156607	40.00	ppm	0.00
69) Phenanthrene-d10	9.194	188	259191	40.00	ppm	0.00
83) Chrysene-d12	14.542	240	262288	40.00	ppm	-0.01
91) Perylene-d12	17.602	264	225389	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.845	152	82610	40.00	ppm	0.00
103) Acenaphthene-d10a	7.241	164	156607	40.00	ppm	0.00
106) Chrysene-d12a	14.542	240	262288	40.00	ppm	0.00
108) Naphthalene-d8a	5.770	136	295265	40.00	ppm	0.00
110) Phenanthrene-d10a	9.194	188	259191	40.00	ppm	0.00
113) Chrysene-d12b	14.542	240	262288	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.850	112	140464	50.70	ppm	0.00
Spiked Amount 50.000			Recovery	=	101.40%	
8) Phenol-d5	4.556	99	171823	49.27	ppm	0.00
Spiked Amount 50.000			Recovery	=	98.54%	
25) Nitrobenzene-d5	5.246	82	150369	51.13	ppm	0.00
Spiked Amount 50.000			Recovery	=	102.26%	
51) 2-Fluorobiphenyl	6.600	172	286839	56.48	ppm	0.00
Spiked Amount 50.000			Recovery	=	112.96%	
73) 2,4,6-Tribromophenol	8.161	330	37783	50.71	ppm	0.00
Spiked Amount 50.000			Recovery	=	101.42%	
85) Terphenyl-d14	12.312	244	293045	57.41	ppm	0.00
Spiked Amount 50.000			Recovery	=	114.82%	
111) O-Terphenyl	0.000	230	0	0.00	ppm	
112) 1-Chlorooctadecane	0.000	57	0	0.00	ppm	

Target Compounds Qvalue

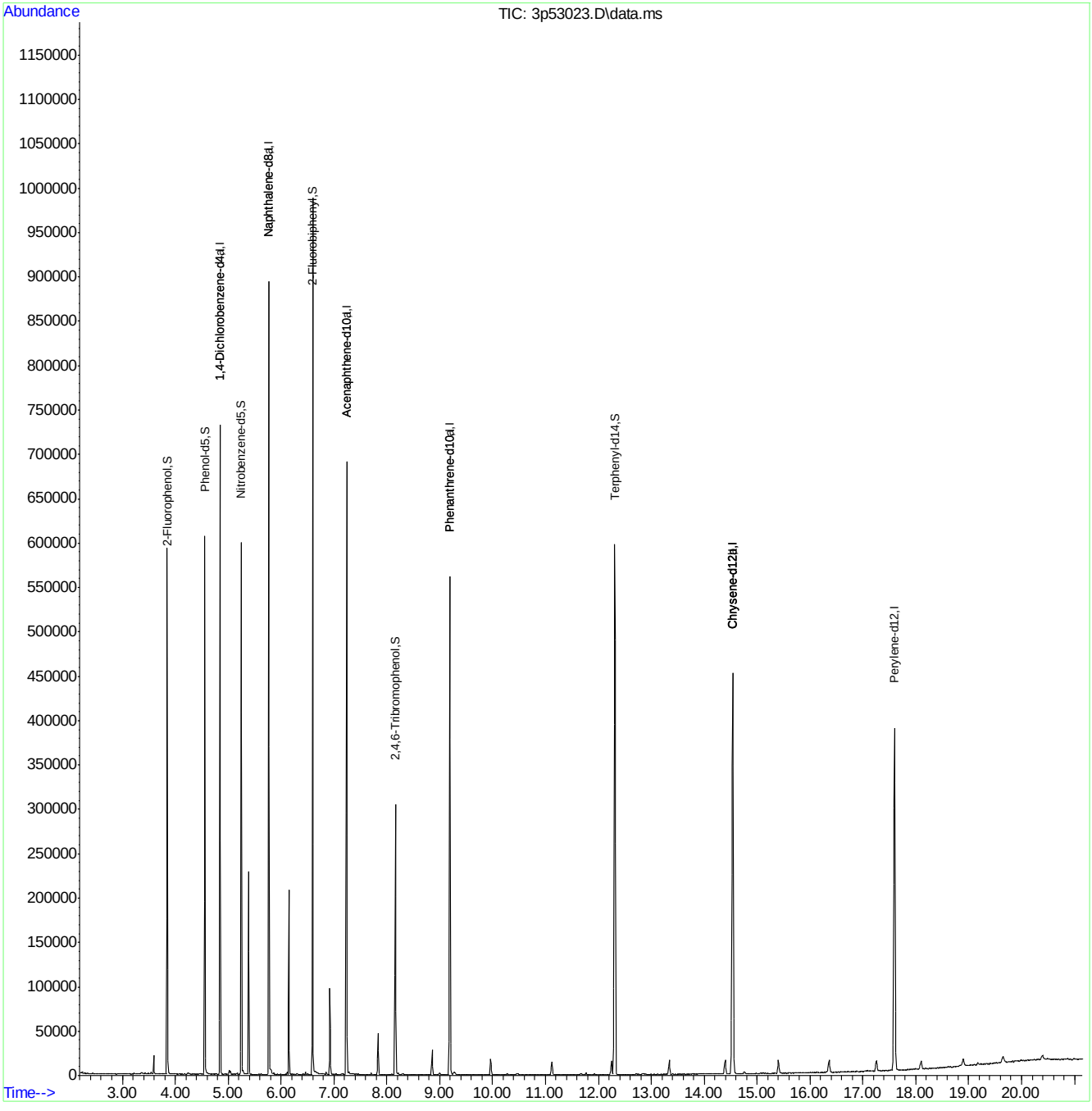
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2414\
Data File : 3p53023.D
Acq On : 29 Apr 2016 7:03 pm
Operator : robertl1
Sample : ICV2413-50
Misc : op93185,e3p2414
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 02 08:58:58 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2413.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 29 17:18:54 2016
Response via : Initial Calibration



M3P2413.M Mon May 02 08:59:03 2016 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2414\
Data File : 3p53024a.D
Acq On : 29 Apr 2016 7:29 pm
Operator : robertl1
Sample : ICV2413-50
Misc : op93185,e3p2414
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 02 13:10:03 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2413.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 29 17:18:54 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.845	152	69559	40.00	ppm	0.00
24) Naphthalene-d8	5.771	136	254688	40.00	ppm	0.00
47) Acenaphthene-d10	7.241	164	144367	40.00	ppm	0.00
69) Phenanthrene-d10	9.194	188	244650	40.00	ppm	0.00
83) Chrysene-d12	14.542	240	253952	40.00	ppm	-0.01
91) Perylene-d12	17.602	264	228427	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.845	152	69559	40.00	ppm	0.00
103) Acenaphthene-d10a	7.241	164	144367	40.00	ppm	0.00
106) Chrysene-d12a	14.542	240	253952	40.00	ppm	0.00
108) Naphthalene-d8a	5.771	136	254688	40.00	ppm	0.00
110) Phenanthrene-d10a	9.194	188	244650	40.00	ppm	0.00
113) Chrysene-d12b	14.542	240	253952	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
111) O-Terphenyl	0.000	230	0	0.00	ppm	
112) 1-Chlorooctadecane	0.000	57	0	0.00	ppm	
Target Compounds						Qvalue
88) 3,3'-Dichlorobenzidine	14.569	252	126252	49.04	ppm	97

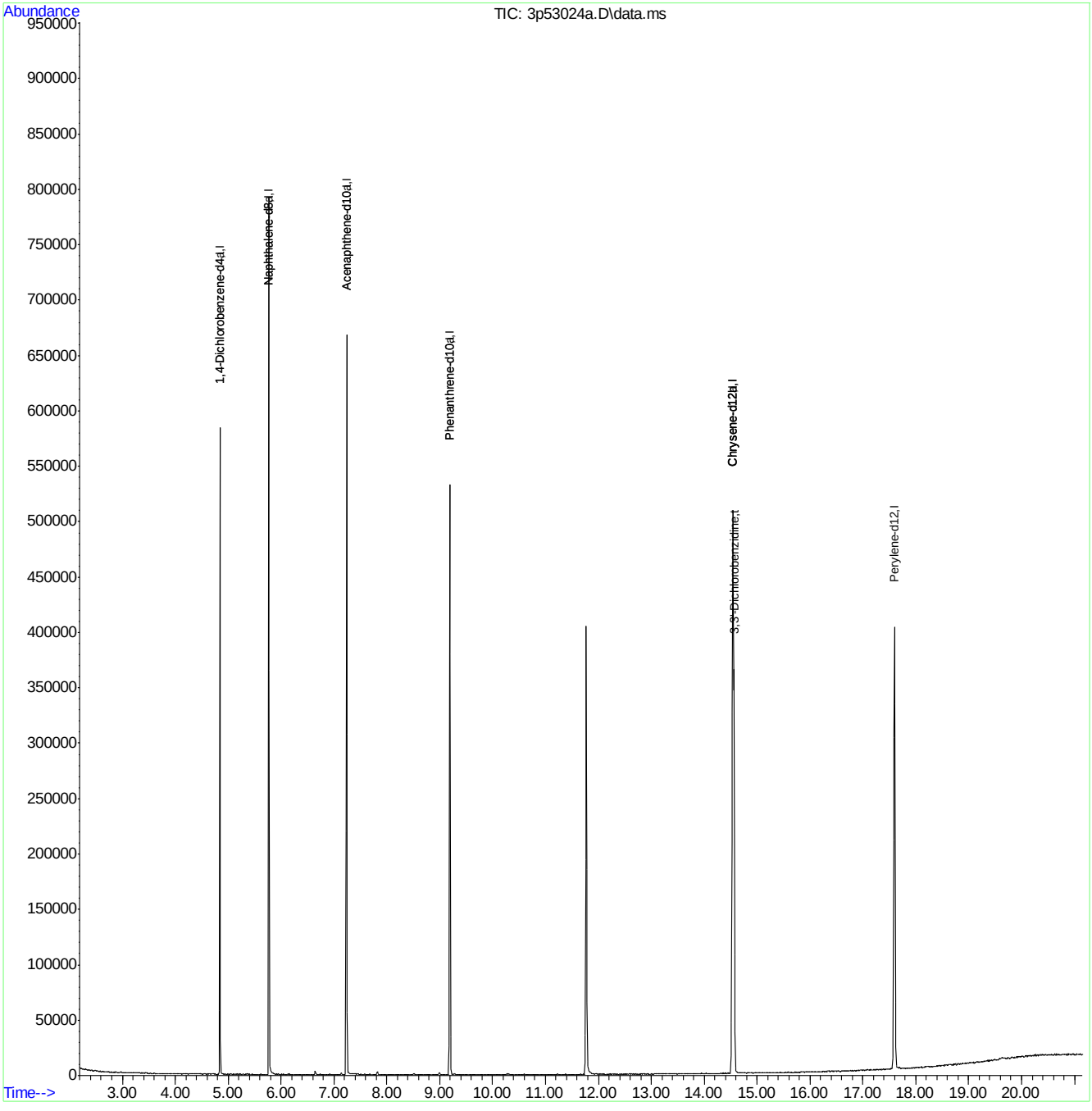
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2414\
Data File : 3p53024a.D
Acq On : 29 Apr 2016 7:29 pm
Operator : robertl1
Sample : ICV2413-50
Misc : op93185,e3p2414
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 02 13:10:03 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2413.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 29 17:18:54 2016
Response via : Initial Calibration



M3P2413.M Tue May 03 13:00:38 2016 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2414\
Data File : 3p53024.D
Acq On : 29 Apr 2016 7:29 pm
Operator : robertl1
Sample : ICV2414-50
Misc : op93185,e3p2414
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 03 13:00:19 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2413.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 29 17:18:54 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.845	152	69559	40.00	ppm	0.00
24) Naphthalene-d8	5.771	136	254688	40.00	ppm	0.00
47) Acenaphthene-d10	7.241	164	144367	40.00	ppm	0.00
69) Phenanthrene-d10	9.194	188	244650	40.00	ppm	0.00
83) Chrysene-d12	14.542	240	253952	40.00	ppm	-0.01
91) Perylene-d12	17.602	264	228427	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.845	152	69559	40.00	ppm	0.00
103) Acenaphthene-d10a	7.241	164	144367	40.00	ppm	0.00
106) Chrysene-d12a	14.542	240	253952	40.00	ppm	0.00
108) Naphthalene-d8a	5.771	136	254688	40.00	ppm	0.00
110) Phenanthrene-d10a	9.194	188	244650	40.00	ppm	0.00
113) Chrysene-d12b	14.542	240	253952	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
111) O-Terphenyl	0.000	230	0	0.00	ppm	
112) 1-Chlorooctadecane	0.000	57	0	0.00	ppm	
Target Compounds						Qvalue
107) Benzidine	11.772	184	226109	72.49	ppm	98

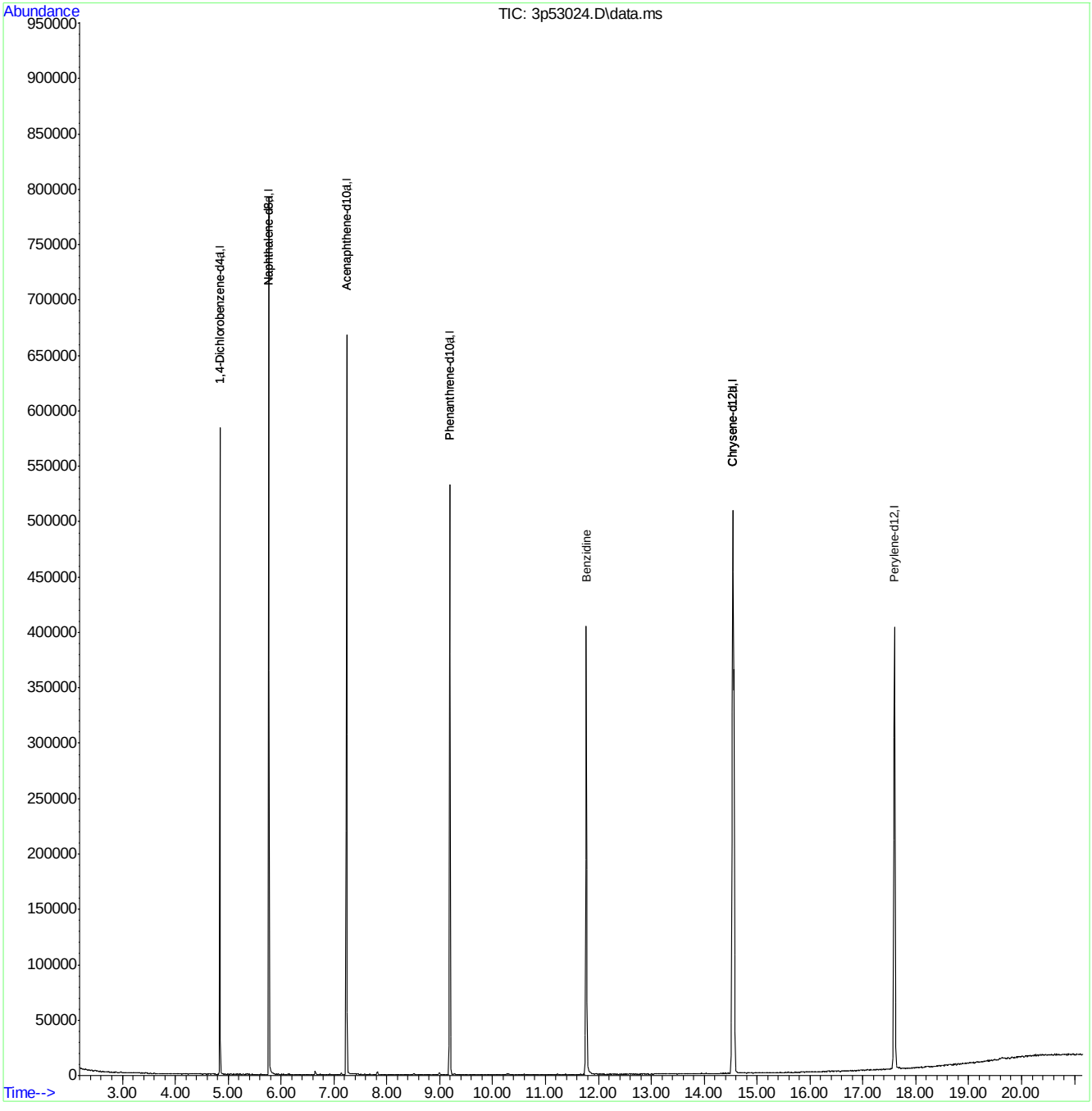
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2414\
Data File : 3p53024.D
Acq On : 29 Apr 2016 7:29 pm
Operator : robertl1
Sample : ICV2414-50
Misc : op93185,e3p2414
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 03 13:00:19 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2413.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 29 17:18:54 2016
Response via : Initial Calibration



M3P2413.M Tue May 03 13:00:28 2016 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2414\
Data File : 3p53025.D
Acq On : 29 Apr 2016 7:55 pm
Operator : robertl1
Sample : ICV2414-50
Misc : op93185,e3p2414
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 02 09:00:12 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2413.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 29 17:18:54 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.845	152	84058	40.00	ppm	0.00
24) Naphthalene-d8	5.770	136	296026	40.00	ppm	0.00
47) Acenaphthene-d10	7.241	164	165995	40.00	ppm	0.00
69) Phenanthrene-d10	9.193	188	283320	40.00	ppm	0.00
83) Chrysene-d12	14.542	240	288716	40.00	ppm	-0.01
91) Perylene-d12	17.602	264	262156	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.845	152	84058	40.00	ppm	0.00
103) Acenaphthene-d10a	7.241	164	165995	40.00	ppm	0.00
106) Chrysene-d12a	14.542	240	288716	40.00	ppm	0.00
108) Naphthalene-d8a	5.770	136	296026	40.00	ppm	0.00
110) Phenanthrene-d10a	9.193	188	283320	40.00	ppm	0.00
113) Chrysene-d12b	14.542	240	288716	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
111) O-Terphenyl	0.000	230	0	0.00	ppm	
112) 1-Chlorooctadecane	0.000	57	0	0.00	ppm	
Target Compounds						Qvalue
109) Hydroquinone	6.048	110	117602	56.68	ppm	90

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

7.6.62

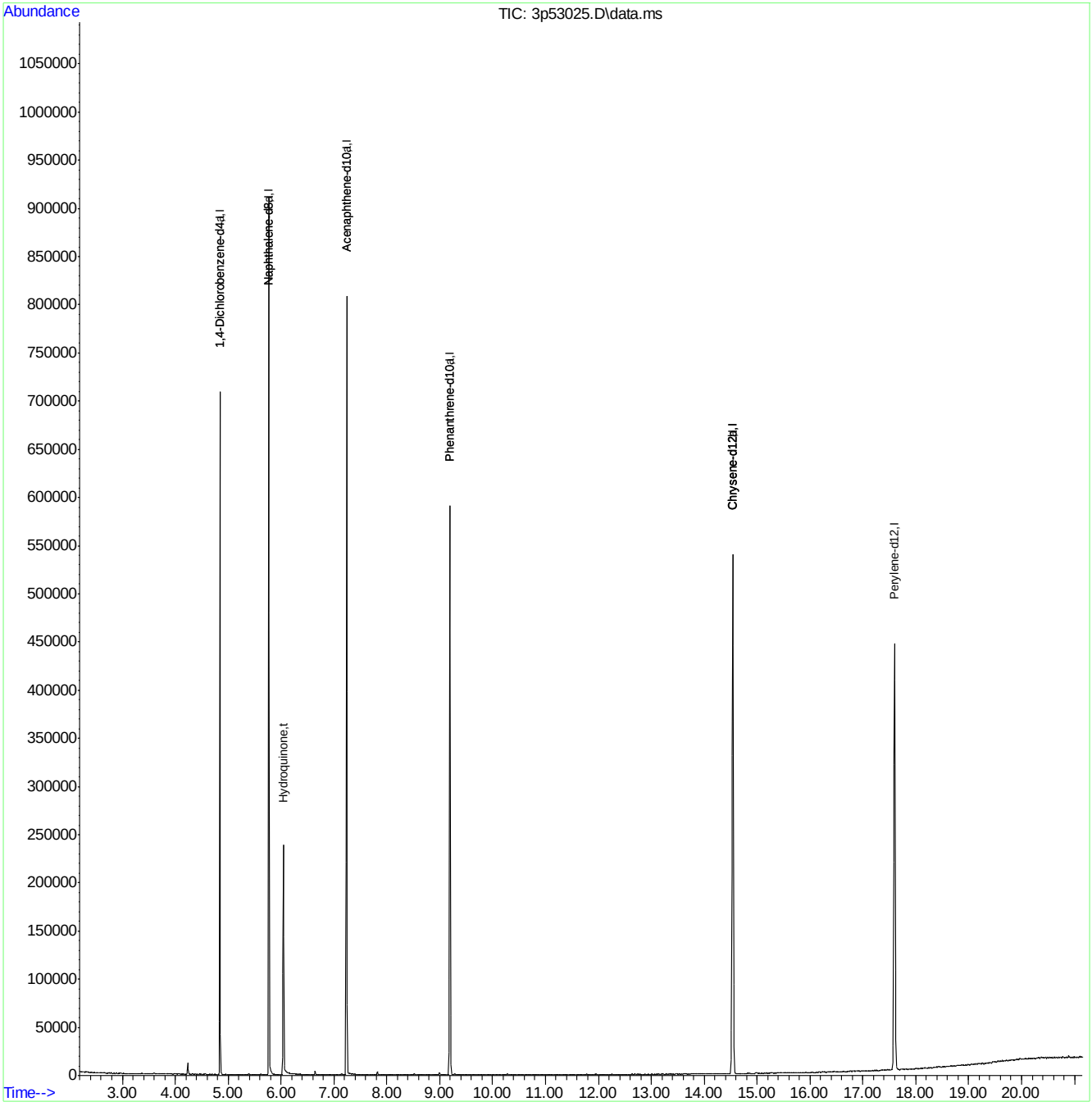
7

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2414\
Data File : 3p53025.D
Acq On : 29 Apr 2016 7:55 pm
Operator : robertl1
Sample : ICV2414-50
Misc : op93185,e3p2414
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 02 09:00:12 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2413.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 29 17:18:54 2016
Response via : Initial Calibration



M3P2413.M Tue May 03 13:00:58 2016 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2415\
Data File : 3p53030a.D
Acq On : 2 May 2016 11:57 am
Operator : robertl1
Sample : ICV2414-50
Misc : op93185,e3p2415
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 03 13:04:25 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2413.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon May 02 10:04:19 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	4.829	152	72617	40.00 ppm	-0.02
24) Naphthalene-d8	5.755	136	241878	40.00 ppm	-0.02
47) Acenaphthene-d10	7.215	164	127050	40.00 ppm	-0.03
69) Phenanthrene-d10	9.162	188	207059	40.00 ppm	-0.04
83) Chrysene-d12	14.505	240	206216	40.00 ppm	-0.05
91) Perylene-d12	17.559	264	171575	40.00 ppm	-0.05
101) 1,4-Dichlorobenzene-d4a	4.829	152	72617	40.00 ppm	-0.02
103) Acenaphthene-d10a	7.215	164	127050	40.00 ppm	-0.03
106) Chrysene-d12a	14.505	240	206216	40.00 ppm	-0.04
108) Naphthalene-d8a	5.755	136	241878	40.00 ppm	-0.02
110) Phenanthrene-d10a	9.162	188	207059	40.00 ppm	-0.03
113) Chrysene-d12b	14.505	240	206216	40.00 ppm	-0.04
System Monitoring Compounds					
5) 2-Fluorophenol	0.000	112	0	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
8) Phenol-d5	0.000	99	0	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
25) Nitrobenzene-d5	0.000	82	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
51) 2-Fluorobiphenyl	0.000	172	0	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
85) Terphenyl-d14	0.000	244	0	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
111) O-Terphenyl	0.000	230	0	0.00 ppm	
112) 1-Chlorooctadecane	0.000	57	0	0.00 ppm	
Target Compounds					Qvalue
105) 1,2,4,5-Tetrachloroben...	6.412	216	104261	58.06 ppm	99

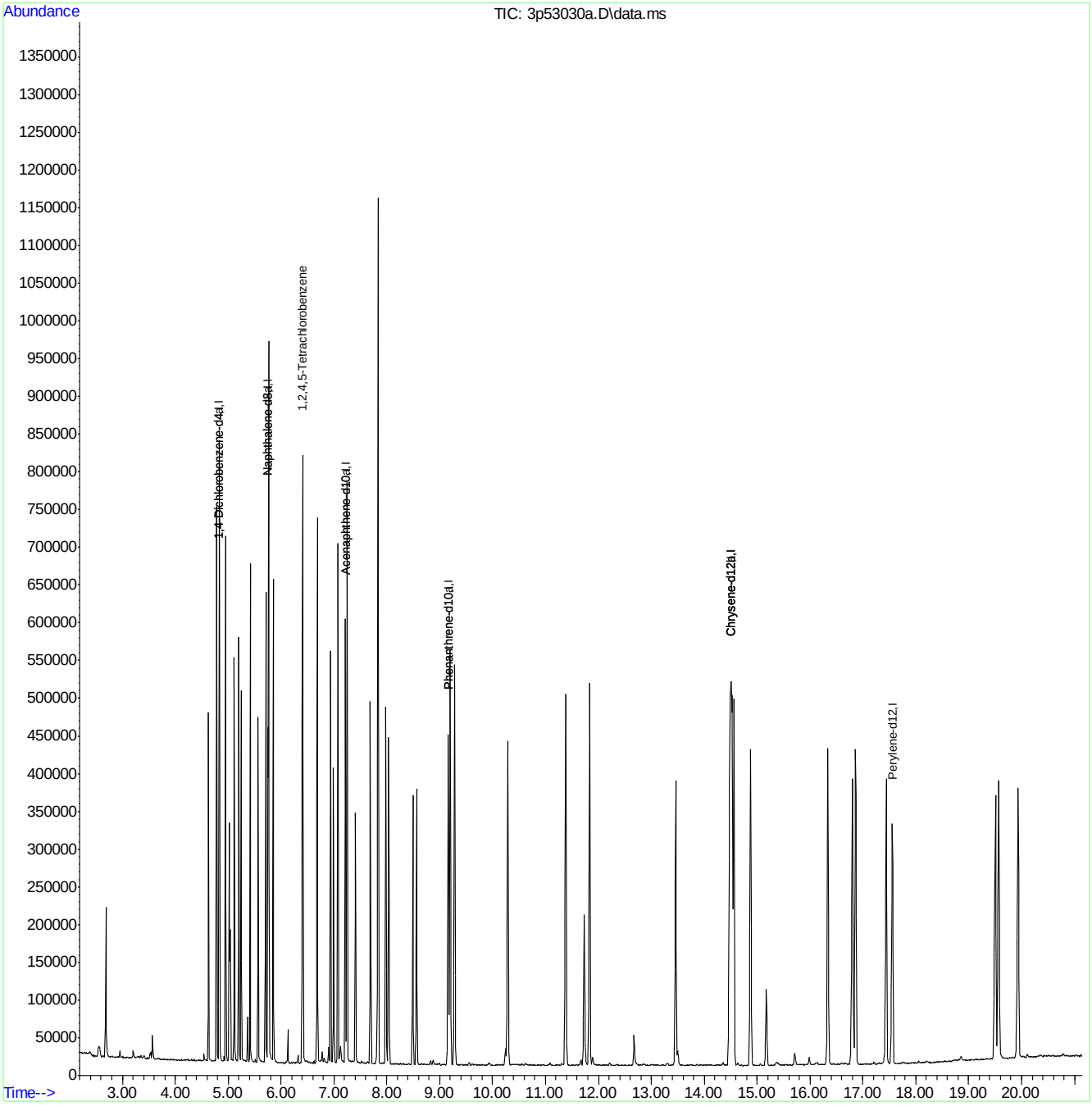
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2415\
Data File : 3p53030a.D
Acq On : 2 May 2016 11:57 am
Operator : robertl1
Sample : ICV2414-50
Misc : op93185,e3p2415
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 03 13:04:25 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2413.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon May 02 10:04:19 2016
Response via : Initial Calibration



M3P2413.M Tue May 03 13:04:30 2016 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2415\
Data File : 3p53030.D
Acq On : 2 May 2016 11:57 am
Operator : robertl1
Sample : ICV2413-50
Misc : op93185,e3p2415
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 02 14:31:05 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2413.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon May 02 10:04:19 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.829	152	72617	40.00	ppm	-0.02
24) Naphthalene-d8	5.755	136	241878	40.00	ppm	-0.02
47) Acenaphthene-d10	7.215	164	127050	40.00	ppm	-0.03
69) Phenanthrene-d10	9.162	188	207059	40.00	ppm	-0.04
83) Chrysene-d12	14.505	240	206216	40.00	ppm	-0.05
91) Perylene-d12	17.559	264	171575	40.00	ppm	-0.05
101) 1,4-Dichlorobenzene-d4a	4.829	152	72617	40.00	ppm	-0.02
103) Acenaphthene-d10a	7.215	164	127050	40.00	ppm	-0.03
106) Chrysene-d12a	14.505	240	206216	40.00	ppm	-0.04
108) Naphthalene-d8a	5.755	136	241878	40.00	ppm	-0.02
110) Phenanthrene-d10a	9.162	188	207059	40.00	ppm	-0.03
113) Chrysene-d12b	14.505	240	206216	40.00	ppm	-0.04
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
111) O-Terphenyl	0.000	230	0	0.00	ppm	
112) 1-Chlorooctadecane	0.000	57	0	0.00	ppm	
Target Compounds						Qvalue
4) N-Nitrosodimethylamine	2.690	42	60215	45.68	ppm #	37
11) bis(2-Chloroethyl)ether	4.631	93	115039	49.31	ppm	87
14) 1,3-Dichlorobenzene	4.786	146	133030	46.27	ppm	96
15) 1,4-Dichlorobenzene	4.840	146	136539	46.73	ppm	97
17) 1,2-Dichlorobenzene	4.952	146	124497	46.40	ppm	95
20) 2,2'-oxybis(1-Chloropr...	5.022	45	138302	41.43	ppm #	63
22) n-Nitroso-di-n-propyla...	5.118	70	81908	46.36	ppm	99
23) Hexachloroethane	5.198	201	46793	46.87	ppm #	70
26) Nitrobenzene	5.246	77	118092	46.87	ppm	95
28) Isophorone	5.418	82	207104	49.39	ppm	88
32) bis(2-Chloroethoxy)met...	5.567	93	118801	46.92	ppm	93
36) 1,2,4-Trichlorobenzene	5.712	180	99304	46.19	ppm	98
38) Naphthalene	5.771	128	301703	47.27	ppm	98
42) Hexachlorobutadiene	5.851	225	55487	45.52	ppm	82
48) Hexachlorocyclopentadiene	6.407	237	54361	42.15	ppm	97
52) 2-Chloronaphthalene	6.685	162	178898	47.63	ppm	95
55) Dimethylphthalate	6.937	163	192517	47.05	ppb	98
56) Acenaphthylene	7.076	152	272381	44.79	ppm	99
57) 2,6-Dinitrotoluene	6.995	165	44076	46.79	ppm	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2415\
Data File : 3p53030.D
Acq On : 2 May 2016 11:57 am
Operator : robertl1
Sample : ICV2413-50
Misc : op93185,e3p2415
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 02 14:31:05 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2413.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon May 02 10:04:19 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
59)	Acenaphthene	7.252	153	180156	46.72	ppm		99
63)	2,4-Dinitrotoluene	7.407	165	55840	45.07	ppm	#	61
65)	Diethylphthalate	7.691	149	187268	44.94	ppm		96
66)	Fluorene	7.835	166	191107	45.03	ppm		95
67)	4-Chlorophenyl-phenyle...	7.835	204	91550	45.56	ppm		97
71)	n-Nitrosodiphenylamine	7.980	169	126974	46.40	ppm		93
72)	1,2-Diphenylhydrazine	8.033	77	196290	47.05	ppm		93
74)	4-Bromophenyl-phenylether	8.493	248	54167	45.87	ppm		96
75)	Hexachlorobenzene	8.563	284	56796	43.84	ppm		93
77)	Phenanthrene	9.199	178	263345	44.62	ppm		95
78)	Anthracene	9.285	178	259208	43.35	ppm		99
80)	Di-n-butylphthalate	10.285	149	321673	44.93	ppm		98
81)	Fluoranthene	11.387	202	294442	43.63	ppm		97
84)	Pyrene	11.836	202	306529	46.72	ppm		95
86)	Butylbenzylphthalate	13.462	149	142016	47.06	ppm		98
87)	Benzo[a]anthracene	14.483	228	274576	44.35	ppm		98
89)	Chrysene	14.564	228	250256	43.56	ppm		96
90)	bis(2-Ethylhexyl)phtha...	14.879	149	190801	46.48	ppm		95
92)	Di-n-octylphthalate	16.339	149	329839	48.61	ppm		97
93)	Benzo[b]fluoranthene	16.805	252	246833	43.69	ppm		96
94)	Benzo[k]fluoranthene	16.864	252	246819	47.07	ppm		97
95)	Benzo[a]pyrene	17.441	252	232790	47.35	ppm		91
96)	Indeno[1,2,3-cd]pyrene	19.506	276	226470	48.83	ppm		81
98)	Dibenz[a,h]anthracene	19.570	278	218537	47.25	ppm		96
100)	Benzo[g,h,i]perylene	19.934	276	227803	47.67	ppm		94

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

7.6.64

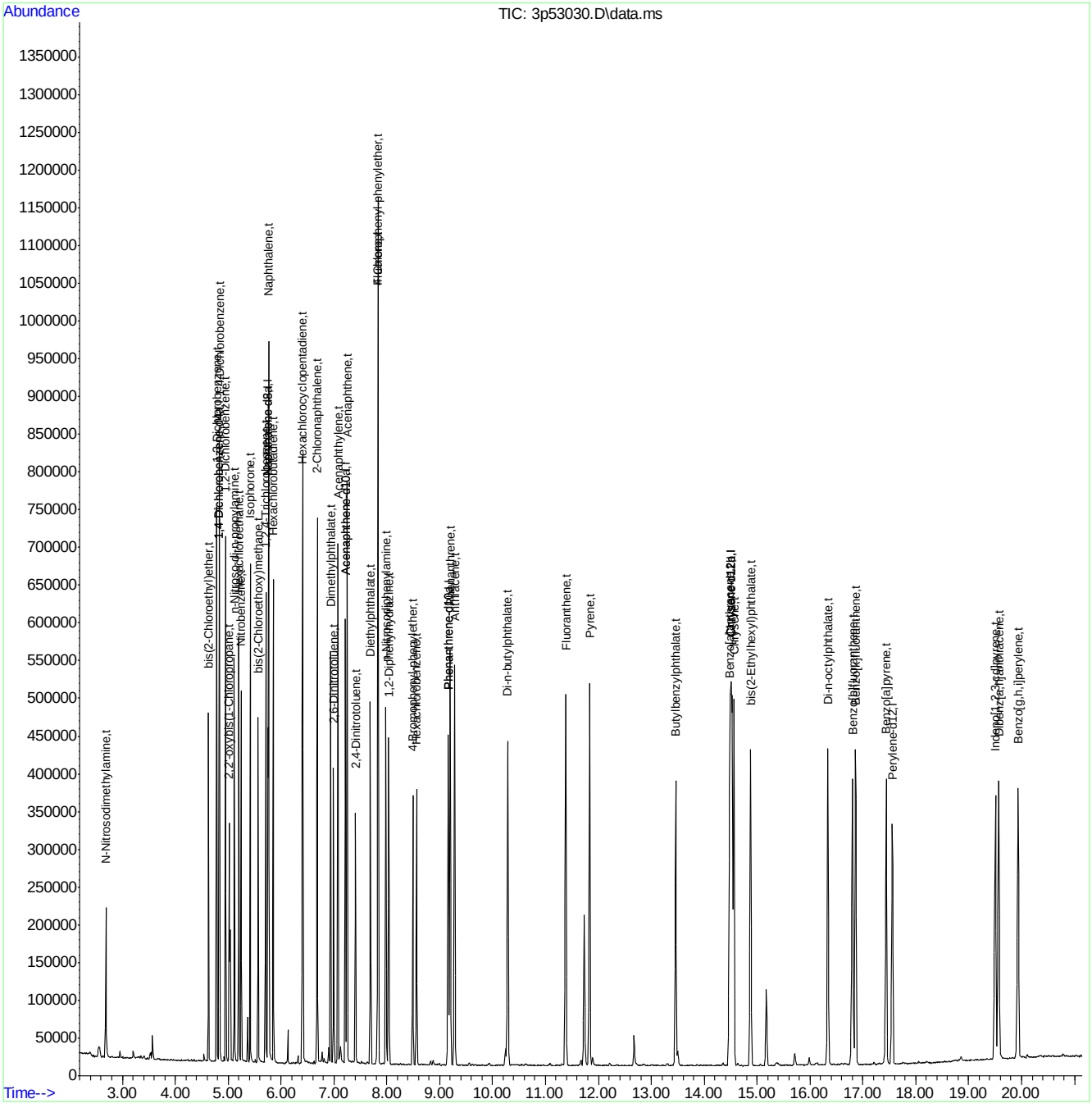
7

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2415\
Data File : 3p53030.D
Acq On : 2 May 2016 11:57 am
Operator : robertl1
Sample : ICV2413-50
Misc : op93185,e3p2415
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 02 14:31:05 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2413.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon May 02 10:04:19 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2415\
Data File : 3p53031.D
Acq On : 2 May 2016 12:36 pm
Operator : robertl1
Sample : ICV2413-50
Misc : op93185,e3p2415
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 02 14:32:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2413.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon May 02 10:04:19 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.829	152	79107	40.00	ppm	-0.02
24) Naphthalene-d8	5.754	136	307896	40.00	ppm	-0.02
47) Acenaphthene-d10	7.220	164	138113	40.00	ppm	-0.02
69) Phenanthrene-d10	9.161	188	226255	40.00	ppm	-0.04
83) Chrysene-d12	14.499	240	230340	40.00	ppm	-0.06
91) Perylene-d12	17.559	264	195647	40.00	ppm	-0.05
101) 1,4-Dichlorobenzene-d4a	4.829	152	79107	40.00	ppm	-0.02
103) Acenaphthene-d10a	7.220	164	138113	40.00	ppm	-0.02
106) Chrysene-d12a	14.499	240	230340	40.00	ppm	-0.04
108) Naphthalene-d8a	5.754	136	307896	40.00	ppm	-0.02
110) Phenanthrene-d10a	9.161	188	226255	40.00	ppm	-0.03
113) Chrysene-d12b	14.499	240	230340	40.00	ppm	-0.04
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
111) O-Terphenyl	0.000	230	0	0.00	ppm	
112) 1-Chlorooctadecane	0.000	57	0	0.00	ppm	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.412	88	50977	41.71	ppm	96
6) Indene	5.016	116	223118	51.31	ppm	97
7) Cumene	4.235	105	301888	46.36	ppm	96
13) Decane	4.706	43	136860	47.22	ppm	92
18) Acetophenone	5.118	105	166946	48.86	ppm	99
27) Quinoline	6.011	129	221916	42.71	ppm	98
40) 2,3-Dichloroaniline	6.509	161	100586	34.86	ppm	99
41) Caprolactam	6.049	113	34534	41.90	ppm	89
45) 1-Methylnaphthalene	6.364	141	190626	40.37	ppm	94
46) Dimethylnaphthalene	6.808	156	186759	40.64	ppm	97
48) Hexachlorocyclopentadiene	6.407	237	79422	56.65	ppm	99
53) Biphenyl	6.669	154	260105	50.02	ppm	97
60) 2,4-Dinitrophenol	7.268	184	30822	52.37	ppm #	74
82) Octadecane	9.060	57	145254	51.54	ppm	88
99) 7,12-Dimethylbenz(a)an...	16.826	256	110705	42.58	ppm	88

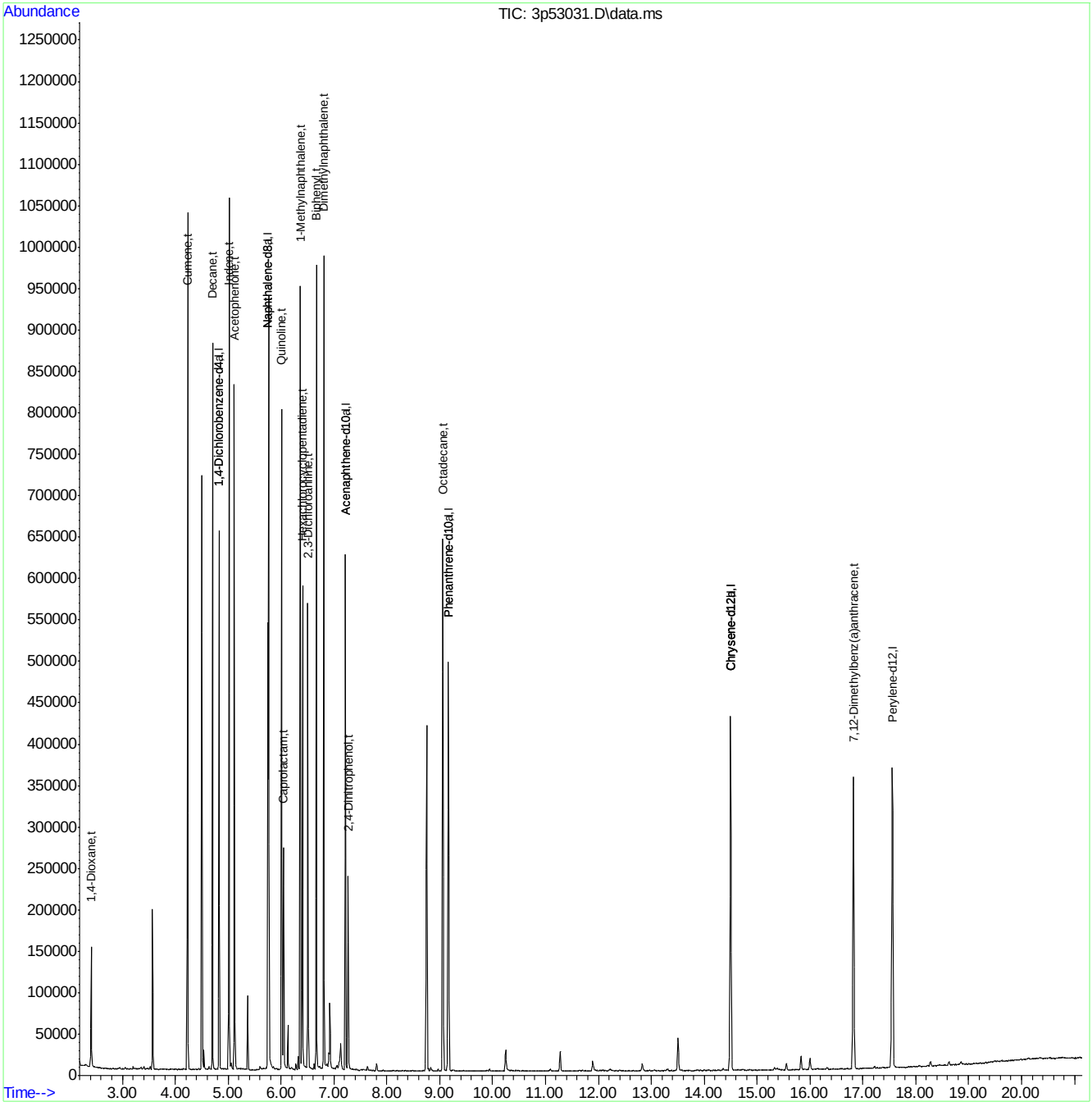
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2415\
Data File : 3p53031.D
Acq On : 2 May 2016 12:36 pm
Operator : robertl1
Sample : ICV2413-50
Misc : op93185,e3p2415
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 02 14:32:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2413.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon May 02 10:04:19 2016
Response via : Initial Calibration



M3P2413.M Mon May 02 14:32:07 2016 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2415\
Data File : 3p53031a.D
Acq On : 2 May 2016 12:36 pm
Operator : robertl1
Sample : ICV2414-50
Misc : op93185,e3p2415
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 02 14:32:29 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2413.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon May 02 10:04:19 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.829	152	79107	40.00	ppm	-0.02
24) Naphthalene-d8	5.754	136	307896	40.00	ppm	-0.02
47) Acenaphthene-d10	7.220	164	138113	40.00	ppm	-0.02
69) Phenanthrene-d10	9.161	188	226255	40.00	ppm	-0.04
83) Chrysene-d12	14.499	240	230340	40.00	ppm	-0.06
91) Perylene-d12	17.559	264	195647	40.00	ppm	-0.05
101) 1,4-Dichlorobenzene-d4a	4.829	152	79107	40.00	ppm	-0.02
103) Acenaphthene-d10a	7.220	164	138113	40.00	ppm	-0.02
106) Chrysene-d12a	14.499	240	230340	40.00	ppm	-0.04
108) Naphthalene-d8a	5.754	136	307896	40.00	ppm	-0.02
110) Phenanthrene-d10a	9.161	188	226255	40.00	ppm	-0.03
113) Chrysene-d12b	14.499	240	230340	40.00	ppm	-0.04
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
111) O-Terphenyl	0.000	230	0	0.00	ppm	
112) 1-Chlorooctadecane	0.000	57	0	0.00	ppm	
Target Compounds						Qvalue
102) Benzaldehyde	4.503	105	105974	56.18	ppm	97
104) Atrazine	8.755	215	31876	56.16	ppm	95

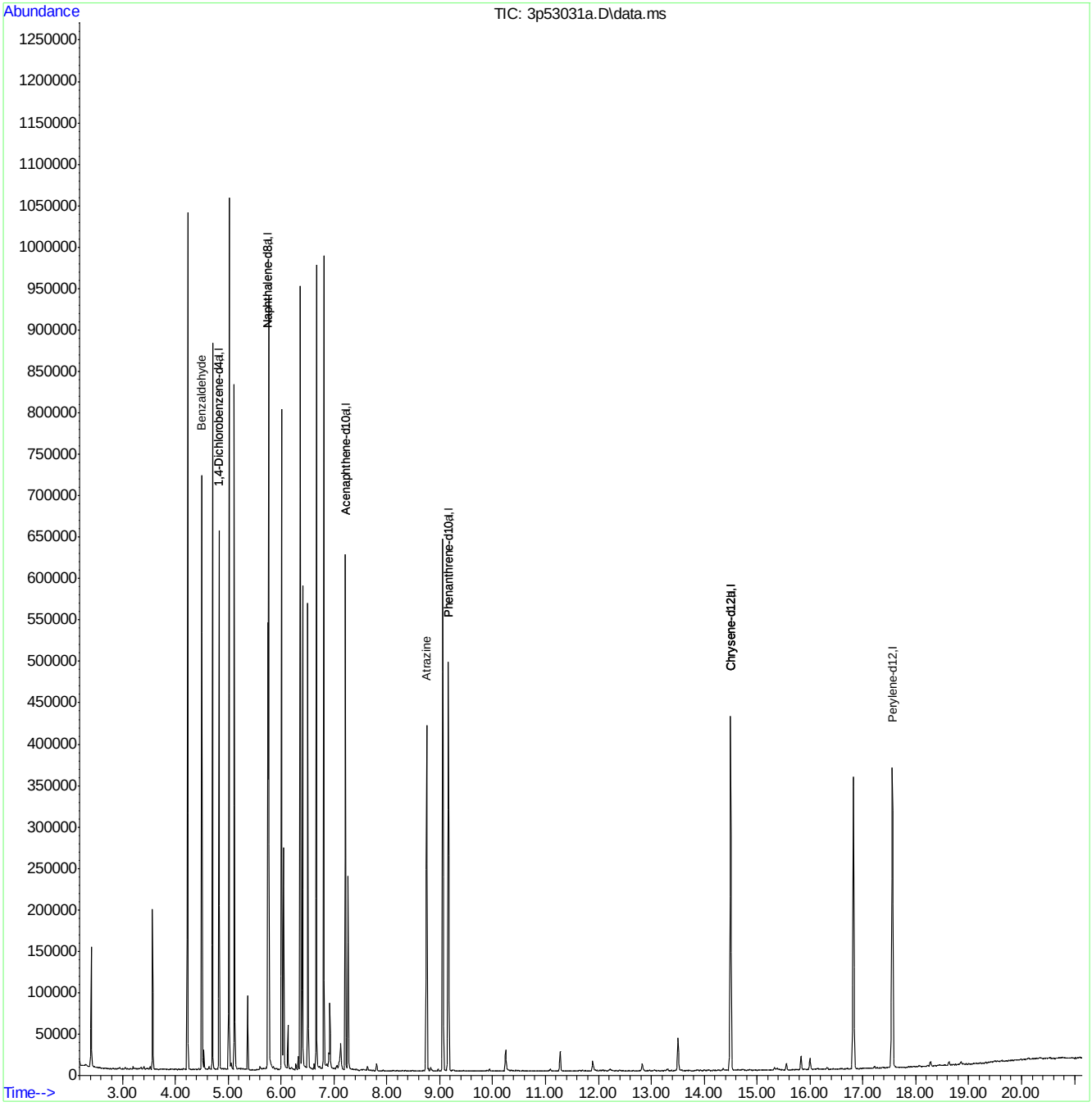
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2415\
Data File : 3p53031a.D
Acq On : 2 May 2016 12:36 pm
Operator : robertl1
Sample : ICV2414-50
Misc : op93185,e3p2415
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 02 14:32:29 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2413.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon May 02 10:04:19 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2447\
Data File : 3p53784.D
Acq On : 25 May 2016 11:42 am
Operator : robertl1
Sample : CC2413-50
Misc : op94042,e3p2447
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 25 14:52:50 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2413.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue May 24 10:53:47 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.740	152	49941	40.00	ppm	-0.03
24) Naphthalene-d8	5.671	136	160957	40.00	ppm	-0.03
47) Acenaphthene-d10	7.109	164	91782	40.00	ppm	-0.04
69) Phenanthrene-d10	9.029	188	165858	40.00	ppm	-0.05
83) Chrysene-d12	14.357	240	191381	40.00	ppm	-0.07
91) Perylene-d12	17.427	264	159371	40.00	ppm	-0.06
101) 1,4-Dichlorobenzene-d4a	4.740	152	49941	40.00	ppm	-0.03
103) Acenaphthene-d10a	7.109	164	91782	40.00	ppm	-0.04
106) Chrysene-d12a	14.357	240	191381	40.00	ppm	-0.07
108) Naphthalene-d8a	5.671	136	160957	40.00	ppm	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	3.761	112	82618	48.75	ppm	-0.03
Spiked Amount 50.000			Recovery	=	97.50%	
8) Phenol-d5	4.488	99	99466	46.61	ppm	0.00
Spiked Amount 50.000			Recovery	=	93.22%	
25) Nitrobenzene-d5	5.152	82	95283	58.02	ppm	-0.04
Spiked Amount 50.000			Recovery	=	116.04%	
51) 2-Fluorobiphenyl	6.484	172	158509	51.53	ppm	-0.03
Spiked Amount 50.000			Recovery	=	103.06%	
73) 2,4,6-Tribromophenol	8.019	330	28160	57.04	ppm	-0.05
Spiked Amount 50.000			Recovery	=	114.08%	
85) Terphenyl-d14	12.110	244	200901	52.76	ppm	-0.09
Spiked Amount 50.000			Recovery	=	105.52%	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.296	88	31617	40.97	ppm	94
3) Pyridine	2.622	79	84181	46.21	ppm	75
4) N-Nitrosodimethylamine	2.590	42	86613	95.55	ppm	81
6) Indene	4.927	116	131295	47.83	ppm	95
7) Cumene	4.141	105	220540	53.65	ppm	97
9) Phenol	4.494	94	107589	49.55	ppm	66
10) Aniline	4.499	93	96693	38.54	ppm #	25
11) bis(2-Chloroethyl)ether	4.547	93	67910	42.33	ppm	82
12) 2-Chlorophenol	4.590	128	84768	48.54	ppm	99
13) Decane	4.612	43	77016	42.09	ppm	97
14) 1,3-Dichlorobenzene	4.697	146	98128	49.63	ppm	98
15) 1,4-Dichlorobenzene	4.756	146	99311	49.42	ppm	99
16) Benzyl alcohol	4.852	108	50798	48.35	ppm	94
17) 1,2-Dichlorobenzene	4.863	146	91233	49.44	ppm	96
18) Acetophenone	5.039	105	115217	53.41	ppm	75
19) 2-Methylphenol	4.938	108	69651	48.40	ppm	96
20) 2,2'-oxybis(1-Chloropr...	4.938	45	77156	33.61	ppm #	64
21) 3&4-Methylphenol	5.045	108	71947	46.93	ppm	96
22) n-Nitroso-di-n-propyla...	5.039	70	63324	52.12	ppm	98
23) Hexachloroethane	5.109	201	38113	55.51	ppm #	76
26) Nitrobenzene	5.168	77	94590	56.42	ppm	95
27) Quinoline	5.938	129	134812	49.63	ppm	95
28) Isophorone	5.339	82	143663	51.49	ppm	92

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2447\
Data File : 3p53784.D
Acq On : 25 May 2016 11:42 am
Operator : robertl1
Sample : CC2413-50
Misc : op94042,e3p2447
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 25 14:52:50 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2413.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue May 24 10:53:47 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
29) 2-Nitrophenol	5.398	139	44968	54.04	ppm	#	40
30) 2,4-Dimethylphenol	5.425	107	77443	54.92	ppm		92
31) Benzoic acid	5.531	105	62686	54.07	ppm		65
32) bis(2-Chloroethoxy)met...	5.489	93	73945	43.89	ppm		92
33) 2,4-Dichlorophenol	5.574	162	67948	53.79	ppm		91
34) 2,6-Dichlorophenol	5.735	162	65518	53.33	ppm		97
35) 1,3,5-Trichlorobenzene	5.398	180	84372	56.48	ppm		95
36) 1,2,4-Trichlorobenzene	5.628	180	76898	53.75	ppm		98
37) 1,2,3-Trichlorobenzene	5.788	180	70202	51.69	ppm		96
38) Naphthalene	5.687	128	211433	49.78	ppm		96
39) 4-Chloroaniline	5.729	127	83259	46.89	ppm		91
40) 2,3-Dichloroaniline	6.419	161	79798	52.90	ppm		95
41) Caprolactam	6.008	113	20916	48.55	ppm	#	77
42) Hexachlorobutadiene	5.767	225	51784	63.84	ppm		82
43) 4-Chloro-3-methylphenol	6.082	107	68247	57.72	ppm		82
44) 2-Methylnaphthalene	6.189	141	128215	53.44	ppm		89
45) 1-Methylnaphthalene	6.270	141	130219	52.76	ppm		90
46) Dimethylnaphthalene	6.708	156	128487	53.48	ppm		93
48) Hexachlorocyclopentadiene	6.307	237	90449	97.08	ppm		96
49) 2,4,6-Trichlorophenol	6.419	196	51992	54.67	ppm		96
50) 2,4,5-Trichlorophenol	6.457	196	52958	53.57	ppm		100
52) 2-Chloronaphthalene	6.590	162	136636	50.36	ppm		90
53) Biphenyl	6.569	154	174942	50.62	ppm		92
54) 2-Nitroaniline	6.687	65	55315	65.68	ppm		94
55) Dimethylphthalate	6.837	163	163645	55.37	ppb		98
56) Acenaphthylene	6.970	152	213466	48.59	ppm		96
57) 2,6-Dinitrotoluene	6.906	165	35086	51.56	ppm		80
58) 3-Nitroaniline	7.072	138	38192	49.63	ppm		88
59) Acenaphthene	7.141	153	144710	51.95	ppm		93
60) 2,4-Dinitrophenol	7.190	184	43111	103.82	ppm		85
61) 4-Nitrophenol	7.259	109	41616	104.15	ppm	#	15
62) Dibenzofuran	7.323	168	196628	52.69	ppm		88
63) 2,4-Dinitrotoluene	7.318	165	53613	59.91	ppm		94
64) 2,3,4,6-Tetrachlorophenol	7.462	232	44686	54.65	ppm		91
65) Diethylphthalate	7.575	149	184344	61.23	ppm		94
66) Fluorene	7.714	166	166592	54.34	ppm		90
67) 4-Chlorophenyl-phenyle...	7.714	204	82981	57.16	ppm		89
68) 4-Nitroaniline	7.757	138	35705	46.28	ppm	#	62
70) 4,6-Dinitro-2-methylph...	7.794	198	32150	58.12	ppm		75
71) n-Nitrosodiphenylamine	7.863	169	111047	50.66	ppm		90
72) 1,2-Diphenylhydrazine	7.912	77	181925	54.43	ppm		92
74) 4-Bromophenyl-phenylether	8.356	248	51962	54.93	ppm		83
75) Hexachlorobenzene	8.436	284	56762	54.69	ppm		82
76) Pentachlorophenol	8.741	266	73624	101.00	ppm		94
77) Phenanthrene	9.067	178	234397	49.58	ppm		93
78) Anthracene	9.152	178	235283	49.12	ppm		96
79) Carbazole	9.436	167	206553	48.06	ppm		88
80) Di-n-butylphthalate	10.126	149	323235	56.36	ppm		97
81) Fluoranthene	11.233	202	291588	53.94	ppm		94
82) Octadecane	8.901	57	86914	42.07	ppm		90

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2447\
Data File : 3p53784.D
Acq On : 25 May 2016 11:42 am
Operator : robertl1
Sample : CC2413-50
Misc : op94042,e3p2447
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 25 14:52:50 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2413.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue May 24 10:53:47 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
84) Pyrene	11.688	202	302383	49.66 ppm	97
86) Butylbenzylphthalate	13.287	149	158151	56.47 ppm	89
87) Benzo[a]anthracene	14.335	228	288856	50.27 ppm	96
88) 3,3'-Dichlorobenzidine	14.373	252	108176	53.09 ppm	93
89) Chrysene	14.416	228	261833	49.11 ppm	93
90) bis(2-Ethylhexyl)phtha...	14.688	149	213704	56.09 ppm	100
92) Di-n-octylphthalate	16.154	149	378800	60.10 ppm	97
93) Benzo[b]fluoranthene	16.673	252	285090	54.32 ppm	95
94) Benzo[k]fluoranthene	16.737	252	254894	52.33 ppm	96
95) Benzo[a]pyrene	17.315	252	236729	51.84 ppm	94
96) Indeno[1,2,3-cd]pyrene	19.390	276	220204	51.11 ppm	95
97) Dibenz(a,h)acridine	19.015	279	203530	51.98 ppm	78
98) Dibenz[a,h]anthracene	19.443	278	218630	50.89 ppm	94
99) 7,12-Dimethylbenz(a)an...	16.678	256	122587	57.89 ppm	92
100) Benzo[g,h,i]perylene	19.823	276	226755	51.09 ppm	89

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

7.6.67

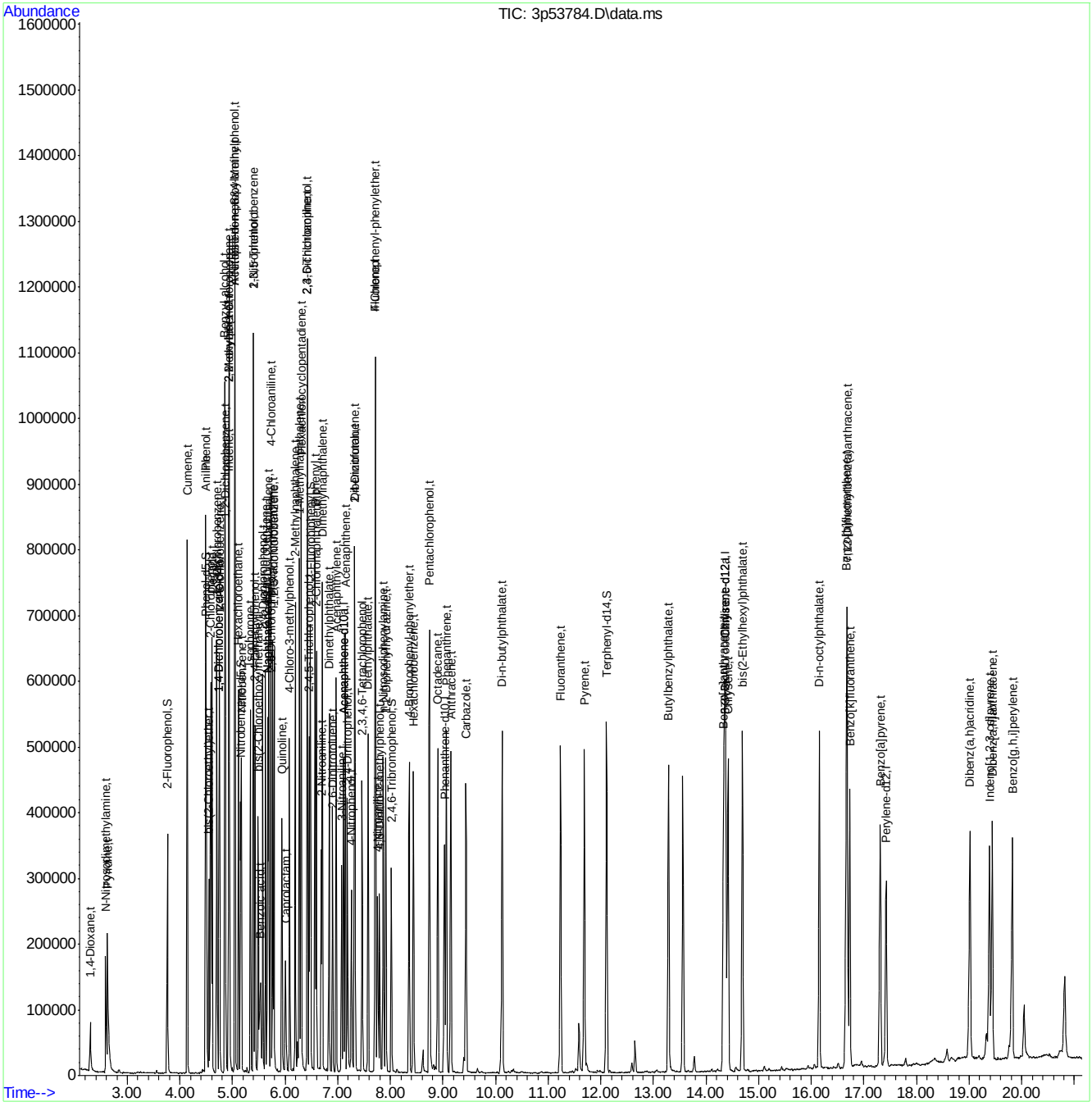
7

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2447\
Data File : 3p53784.D
Acq On : 25 May 2016 11:42 am
Operator : robertl1
Sample : CC2413-50
Misc : op94042,e3p2447
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 25 14:52:50 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2413.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue May 24 10:53:47 2016
Response via : Initial Calibration



SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2447\
Data File : 3p53785.D
Acq On : 25 May 2016 12:17 pm
Operator : robertl1
Sample : CC2414-50
Misc : op94042,e3p2447
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 25 14:53:05 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2413.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue May 24 10:53:47 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.740	152	44851	40.00	ppm	-0.03
24) Naphthalene-d8	5.665	136	158724	40.00	ppm	-0.04
47) Acenaphthene-d10	7.104	164	90428	40.00	ppm	-0.05
69) Phenanthrene-d10	9.024	188	164578	40.00	ppm	-0.06
83) Chrysene-d12	14.346	240	173917	40.00	ppm	-0.08
91) Perylene-d12	17.416	264	145552	40.00	ppm	-0.07
101) 1,4-Dichlorobenzene-d4a	4.740	152	44851	40.00	ppm	-0.03
103) Acenaphthene-d10a	7.104	164	90428	40.00	ppm	-0.05
106) Chrysene-d12a	14.346	240	173917	40.00	ppm	-0.08
108) Naphthalene-d8a	5.665	136	158724	40.00	ppm	-0.04
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
102) Benzaldehyde	4.419	105	49430	46.22	ppm #	84
104) Atrazine	8.623	215	25867	69.60	ppm #	81
105) 1,2,4,5-Tetrachloroben...	6.323	216	76056	59.50	ppm	98
107) Benzidine	11.586	184	104885	49.10	ppm	95
109) Hydroquinone	5.965	110	66156	62.09	ppm	75

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

7.6.68

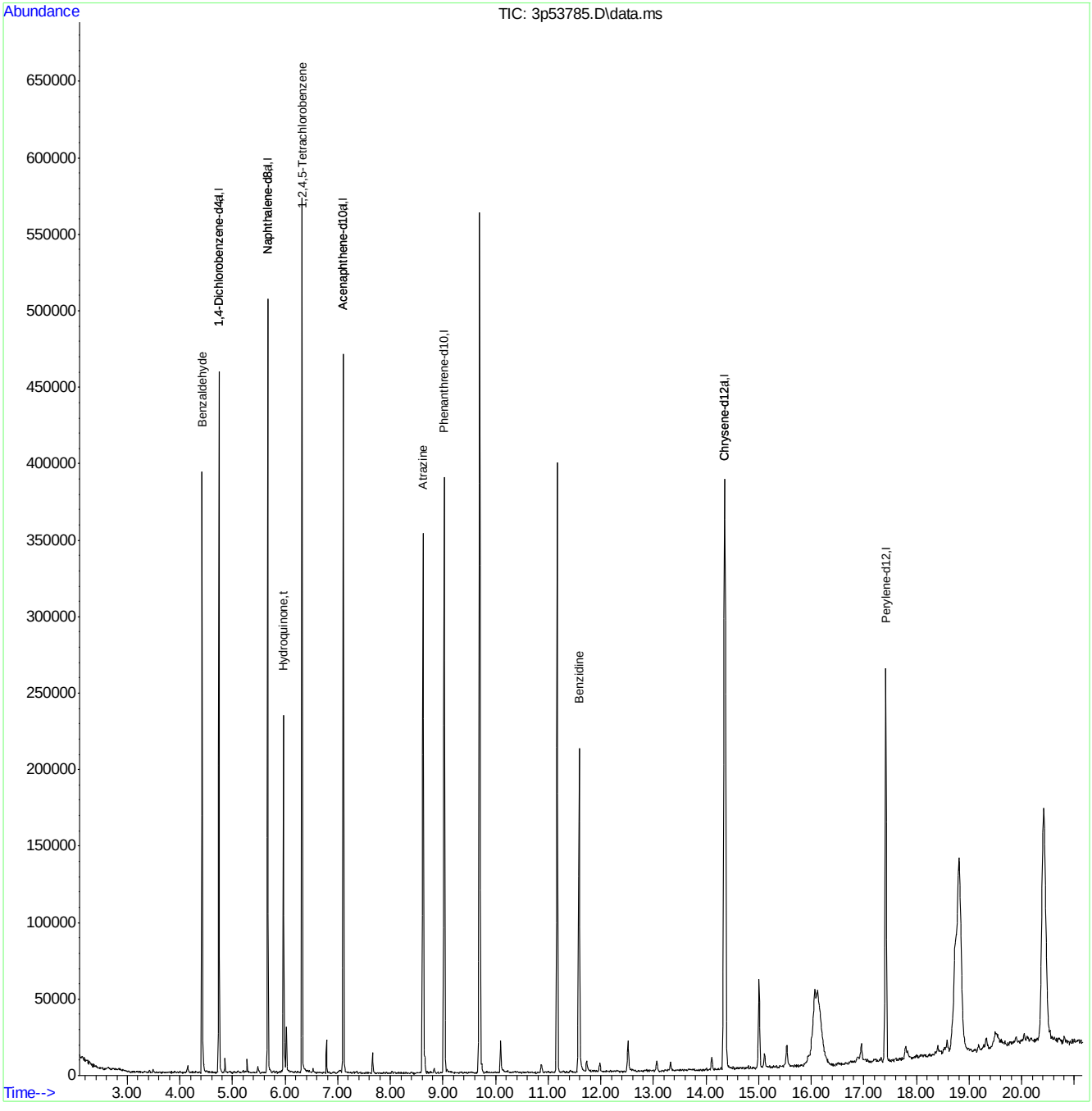
7

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2447\
Data File : 3p53785.D
Acq On : 25 May 2016 12:17 pm
Operator : robertl1
Sample : CC2414-50
Misc : op94042,e3p2447
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 25 14:53:05 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2413.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue May 24 10:53:47 2016
Response via : Initial Calibration



SGS ACCUTEST JC20098

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
05/25/16 11:35

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2930\
Data File : 4m65479.D
Acq On : 24 May 2016 10:33 am
Operator : linseyk
Sample : icc2930-1
Misc : op93641a,e4m2930
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 24 11:05:43 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2930SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue May 24 11:02:23 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	9.863	152	248114	4.00	ppm	0.00
12) Fluorene-d10	12.827	176	456799	4.00	ppm	0.00
22) Fluoranthene-d10	17.026	212	1003279	4.00	ppm	0.00
28) Benzo(a)pyrene-d12	21.611	264	664408	4.00	ppm	0.00
35) 1-Methylnaphthalene-d10a	9.863	152	248114	4.00	ppm	0.00
38) Fluorene-d10a	12.827	176	456799	4.00	ppm	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	4.121	112	827136	20.15	ppm	0.00
Spiked Amount 50.000	Range 11 - 58		Recovery = 40.30%			
3) Phenol-d5	5.512	99	1483549	19.71	ppm	0.00
Spiked Amount 50.000			Recovery = 39.42%			
6) Nitrobenzene-d5	7.038	82	1206653	20.01	ppm	0.00
Spiked Amount 50.000			Recovery = 40.02%			
11) 2-Fluorobiphenyl	10.507	172	1927137	20.05	ppm	0.00
Spiked Amount 50.000			Recovery = 40.10%			
17) 2,4,6-Tribromophenol	13.377	330	380340	20.32	ppm	0.00
Spiked Amount 50.000			Recovery = 40.64%			
25) Terphenyl-d14	17.817	244	2254858	20.14	ppm	0.00
Spiked Amount 50.000			Recovery = 40.28%			
Target Compounds						Qvalue
4) Phenol	5.526	94	392380	4.89	ppm	93
5) bis(2-Chloroethyl)ether	5.664	93	58373	0.91	ppm	79
7) Naphthalene	8.384	128	156653	0.99	ppm	99
8) Hexachlorobutadiene	8.662	225	29324	1.00	ppm	100
9) 2-Methylnaphthalene	9.743	142	59388	1.00	ppm	100
10) Hexachlorocyclopentadiene	10.078	237	11021	1.86	ppm	99
13) Acenaphthylene	11.496	152	120370	1.00	ppm	100
14) Acenaphthene	11.851	153	71768	1.02	ppm	100
15) Dibenzofuran	12.206	168	95350	1.00	ppm	99
16) Fluorene	12.899	166	91494	1.00	ppm	99
18) Hexachlorobenzene	13.976	284	41256	0.99	ppm	100
19) Pentachlorophenol	14.409	266	83338	4.97	ppm	100
20) Phenanthrene	14.804	178	157275	1.01	ppm	100
21) Anthracene	14.899	178	162846	1.00	ppm	100
23) Fluoranthene	17.045	202	188961	1.00	ppm	99
24) Pyrene	17.440	202	192283	1.00	ppm	100
26) Benzo[a]anthracene	19.530	228	177529	1.00	ppm	100
27) Chrysene	19.587	228	173777	0.98	ppm	100
29) Benzo[b]fluoranthene	21.184	252	217148	1.00	ppm	99
30) Benzo[k]fluoranthene	21.225	252	143171	0.99	ppm	98
31) Benzo[a]pyrene	21.638	252	156668	0.95	ppm	100
32) Indeno[1,2,3-cd]pyrene	23.208	276	195009m	1.00	ppm	
33) Dibenz[a,h]anthracene	23.249	278	156314	1.01	ppm	99
34) Benzo[g,h,i]perylene	23.607	276	171171	1.00	ppm	99
36) 1,4-Dioxane	2.330	88	21646m	0.90	ppm	
37) 1-Methylnaphthalene	9.911	142	56348	0.98	ppm	100
39) 4,6-dinitro-2-methylph...	13.066	198	77517	4.92	ppm	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2930\
Data File : 4m65479.D
Acq On : 24 May 2016 10:33 am
Operator : linseyk
Sample : icc2930-1
Misc : op93641a,e4m2930
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 24 11:05:43 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2930SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue May 24 11:02:23 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) 1,2-Diphenylhydrazine	13.257	77	126618	1.01	ppm	99
41) n-nitrosodiphenylamine	13.209	169	61231	1.01	ppm	99

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

7.6.69

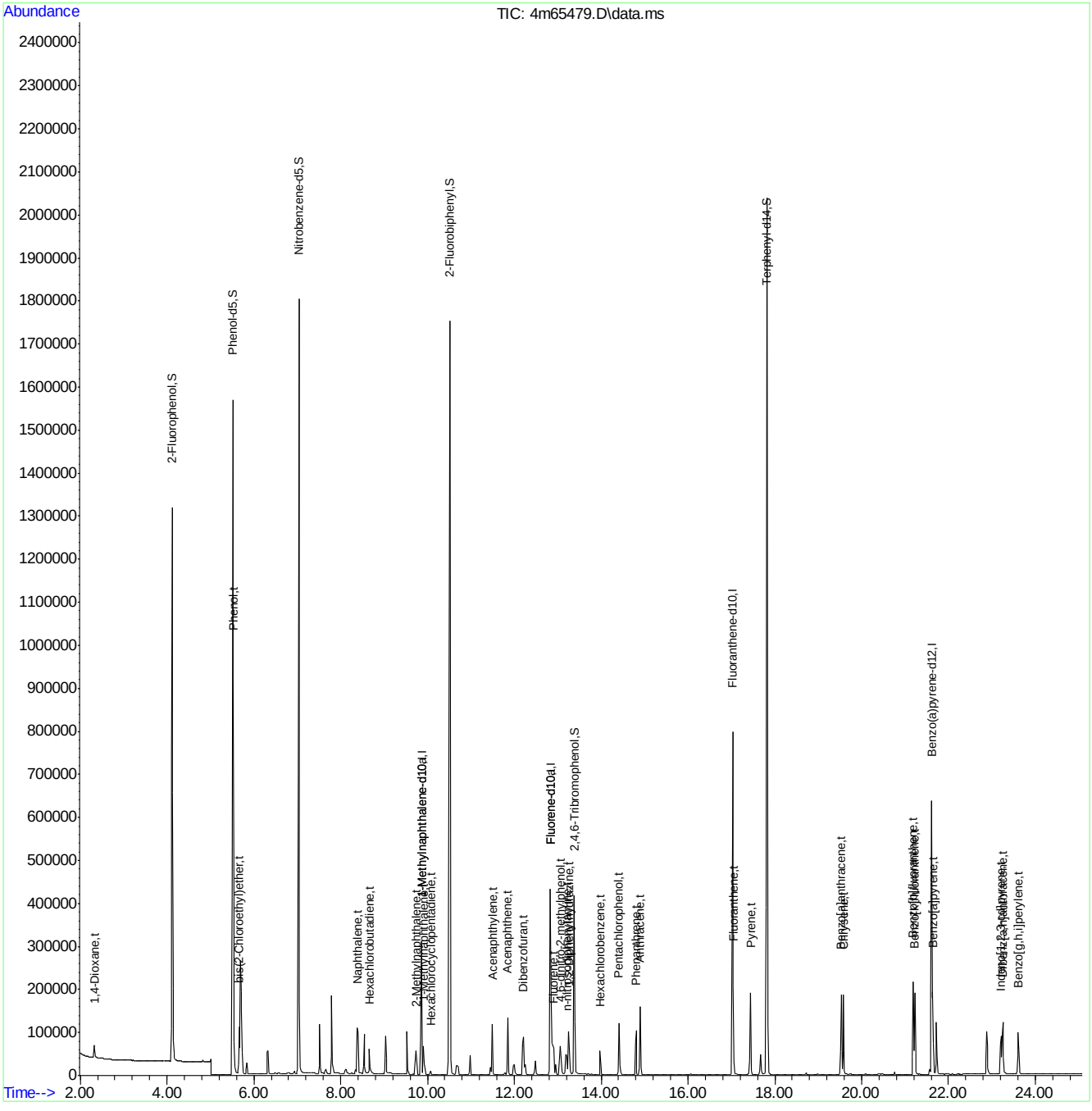
7

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2930\
Data File : 4m65479.D
Acq On : 24 May 2016 10:33 am
Operator : linseyk
Sample : icc2930-1
Misc : op93641a,e4m2930
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 24 11:05:43 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2930SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue May 24 11:02:23 2016
Response via : Initial Calibration



Manual Integration Approval Summary

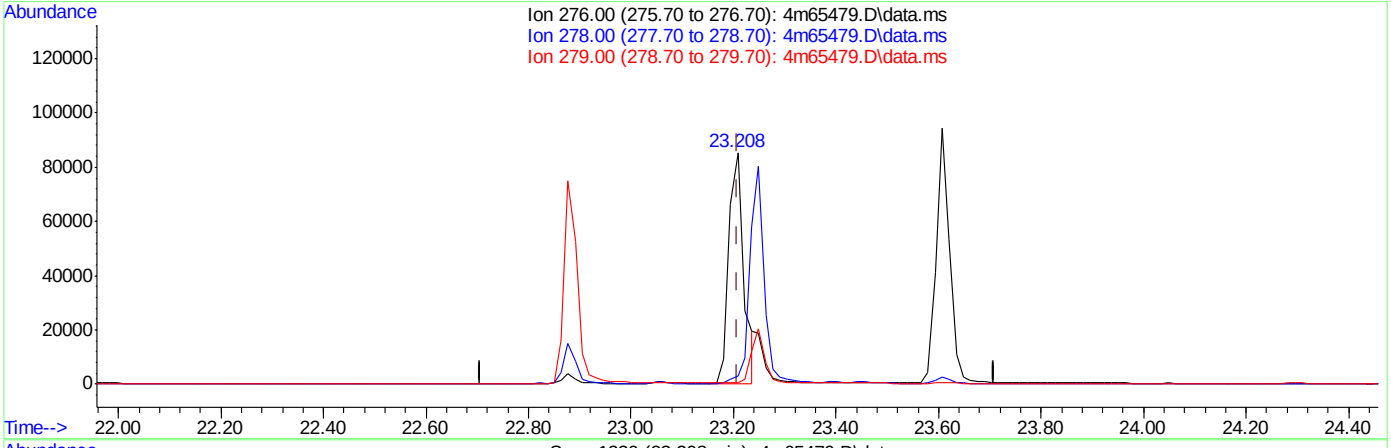
Sample Number:	E4M2930-ICC2930	**Method:**	SW846 8270D BY SIM
Lab FileID:	4M65479.D	**Analyst approved:**	05/24/16 16:10 Linsey Kirschmann
Injection Time:	05/24/16 10:33	**Supervisor approved:**	05/25/16 11:35 Nina Pandya

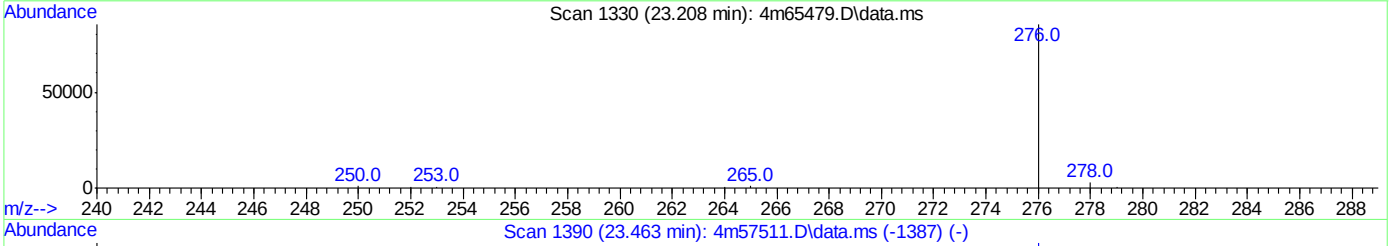
Parameter	CAS	Sig#	R.T. (min.)	Reason
1,4-Dioxane	123-91-1		2.33	Poor instrument integration
Indeno(1,2,3-cd)pyrene	193-39-5		23.21	Poor instrument integration

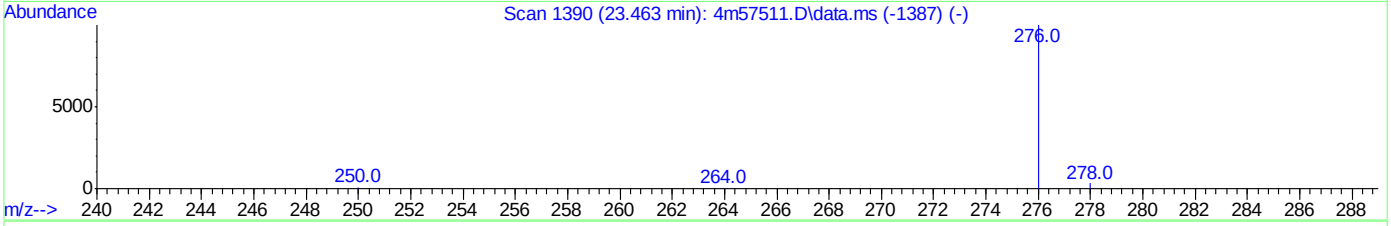
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M2930\
Data File : 4m65479.D
Acq On : 24 May 2016 10:33 am
Operator : linseyk
Sample : icc2930-1
Misc : op93641a,e4m2930
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 24 11:04:59 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2930SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue May 24 11:02:23 2016
Response via : Initial Calibration







TIC: 4m65479.D\data.ms

(32) Indeno[1,2,3-cd]pyrene (t)

23.208min (0.000) 0.88ppm

response 170296

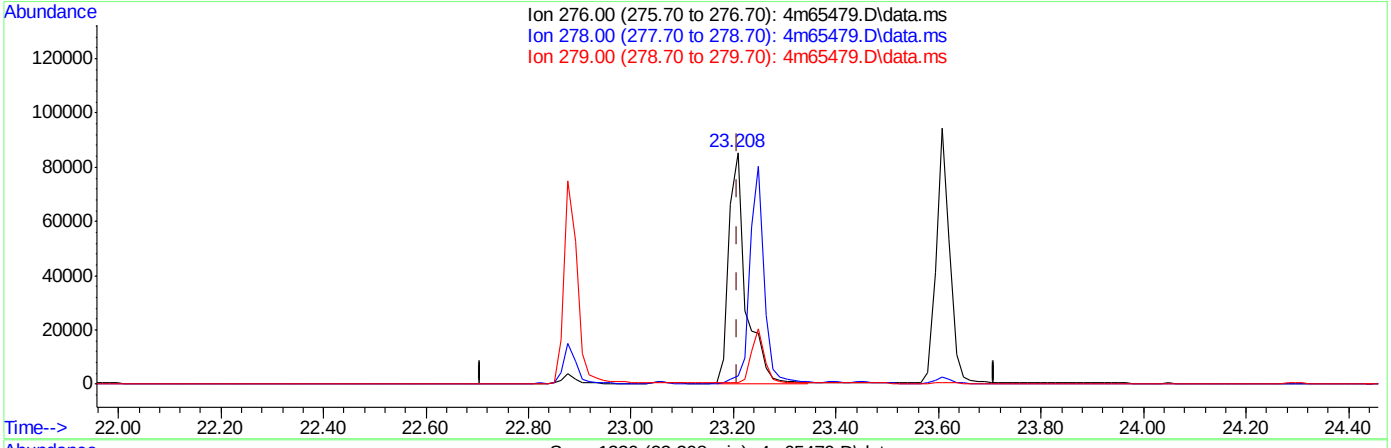
Ion	Exp%	Act%
276.00	100	100
278.00	3.70	0.00
279.00	0.80	0.00
0.00	0.00	0.00

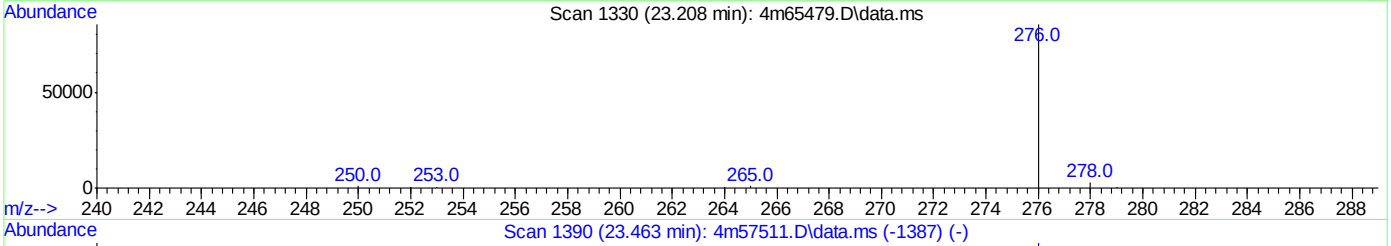
SGS ACCUTEST JC20098

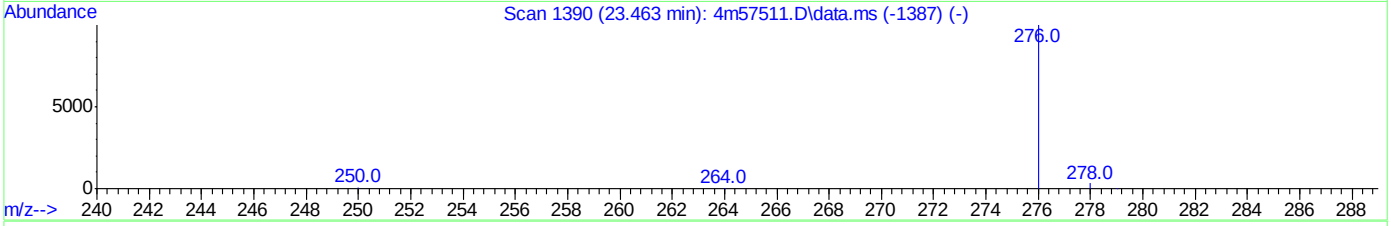
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M2930\
Data File : 4m65479.D
Acq On : 24 May 2016 10:33 am
Operator : linseyk
Sample : icc2930-1
Misc : op93641a,e4m2930
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 24 11:04:59 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2930SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue May 24 11:02:23 2016
Response via : Initial Calibration







TIC: 4m65479.D\data.ms

(32) Indeno[1,2,3-cd]pyrene (t)

23.208min (0.000) 1.00ppm m

response 195009

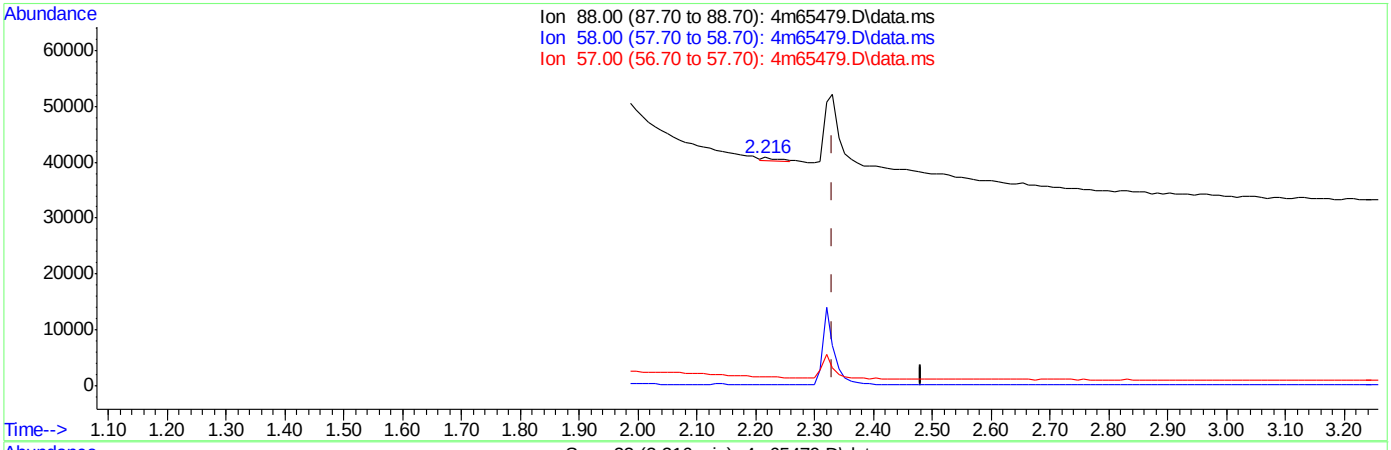
Ion	Exp%	Act%
276.00	100	100
278.00	3.70	3.73
279.00	0.80	0.77
0.00	0.00	0.00

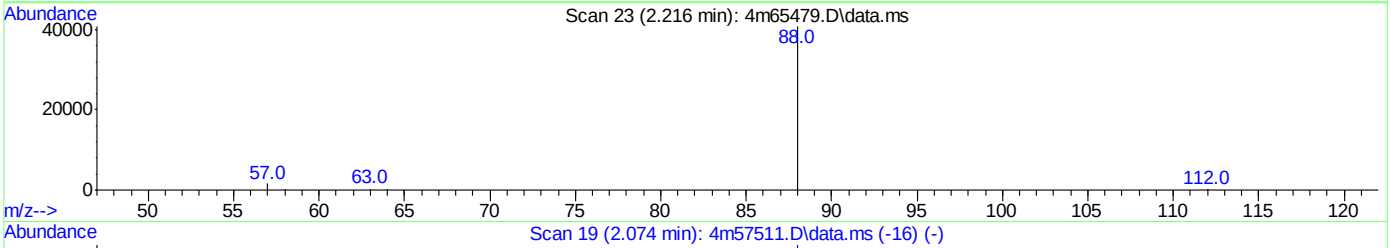
SGS ACCUTEST JC20098

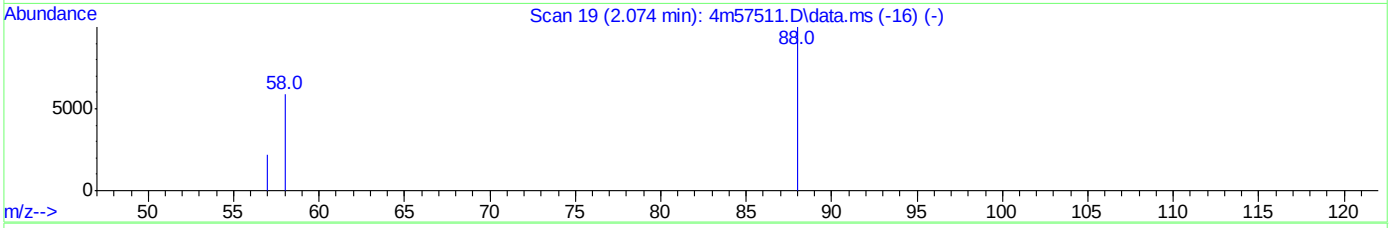
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M2930\
Data File : 4m65479.D
Acq On : 24 May 2016 10:33 am
Operator : linseyk
Sample : icc2930-1
Misc : op93641a,e4m2930
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 24 11:04:59 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2930SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue May 24 11:02:23 2016
Response via : Initial Calibration







TIC: 4m65479.D\data.ms

(36) 1,4-Dioxane (t)

2.216min (-0.115) 0.05ppm

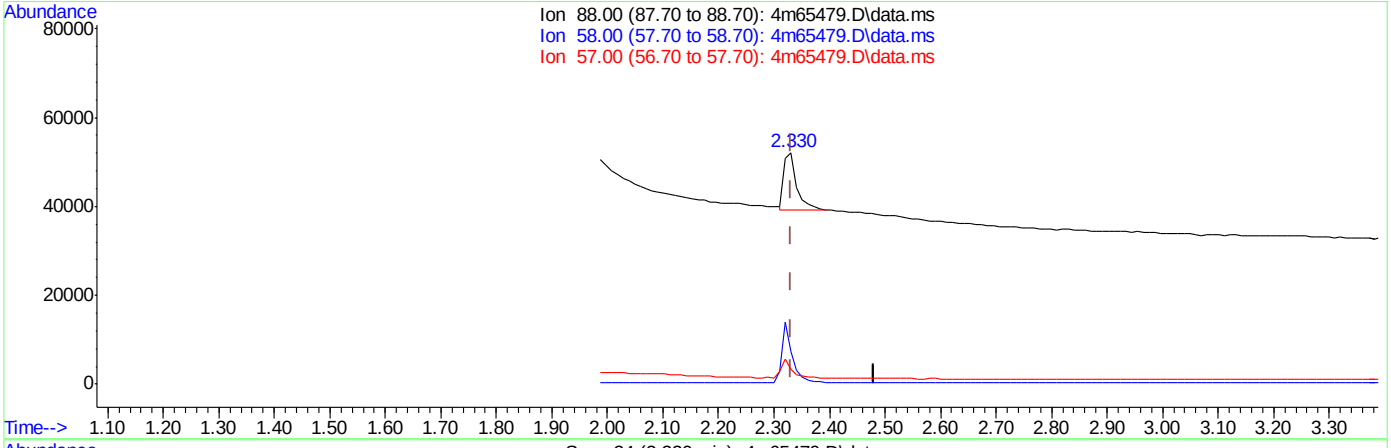
response 1081

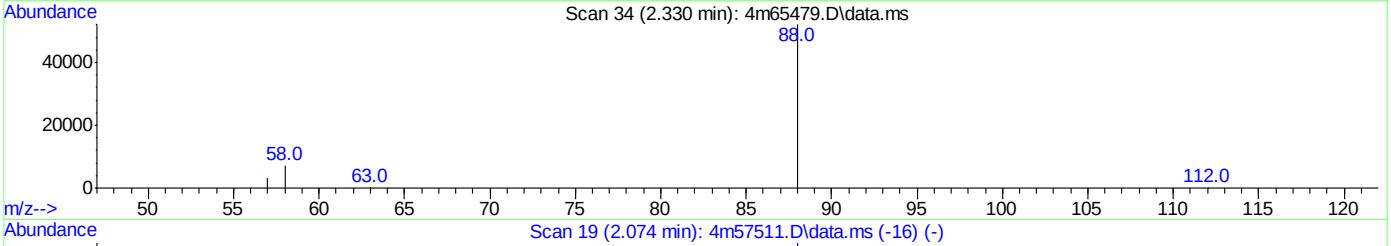
Ion	Exp%	Act%
88.00	100	100
58.00	14.00	0.00
57.00	6.30	8.50
0.00	0.00	0.00

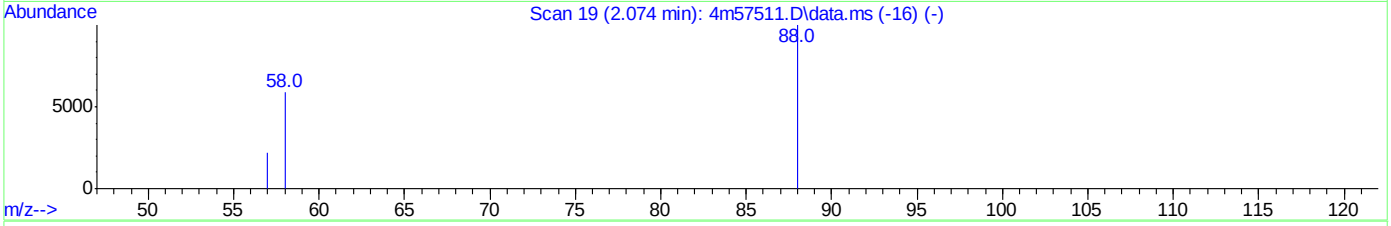
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M2930\
Data File : 4m65479.D
Acq On : 24 May 2016 10:33 am
Operator : linseyk
Sample : icc2930-1
Misc : op93641a,e4m2930
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 24 11:04:59 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2930SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue May 24 11:02:23 2016
Response via : Initial Calibration







TIC: 4m65479.D\data.ms

(36) 1,4-Dioxane (t)

2.330min (0.000) 0.90ppm m

response 21646

Ion	Exp%	Act%
88.00	100	100
58.00	14.00	14.04
57.00	6.30	6.32
0.00	0.00	0.00

SGS ACCUTEST JC20098

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
05/25/16 11:35

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2930\
Data File : 4m65480.D
Acq On : 24 May 2016 11:03 am
Operator : linseyk
Sample : ic2930-.5
Misc : op93641a,e4m2930
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 24 11:29:42 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2930SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue May 24 11:02:23 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	9.863	152	186501	4.00	ppm	0.00
12) Fluorene-d10	12.827	176	356995	4.00	ppm	0.00
22) Fluoranthene-d10	17.026	212	687070	4.00	ppm	0.00
28) Benzo(a)pyrene-d12	21.611	264	487451	4.00	ppm	0.00
35) 1-Methylnaphthalene-d10a	9.863	152	186501	4.00	ppm	0.00
38) Fluorene-d10a	12.827	176	356995	4.00	ppm	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	4.121	112	338997	10.90	ppm	0.00
Spiked Amount 50.000	Range 11 - 58		Recovery = 21.80%			
3) Phenol-d5	5.512	99	594872	10.67	ppm	0.00
Spiked Amount 50.000			Recovery = 21.34%			
6) Nitrobenzene-d5	7.038	82	475350	10.48	ppm	0.00
Spiked Amount 50.000			Recovery = 20.96%			
11) 2-Fluorobiphenyl	10.507	172	784559	10.83	ppm	0.00
Spiked Amount 50.000			Recovery = 21.66%			
17) 2,4,6-Tribromophenol	13.376	330	149019	10.03	ppm	0.00
Spiked Amount 50.000			Recovery = 20.06%			
25) Terphenyl-d14	17.817	244	836763	10.84	ppm	0.00
Spiked Amount 50.000			Recovery = 21.68%			
Target Compounds						Qvalue
4) Phenol	5.526	94	160327	2.72	ppm	83
5) bis(2-Chloroethyl)ether	5.663	93	23852	0.54	ppm #	67
7) Naphthalene	8.384	128	64197	0.55	ppm	99
8) Hexachlorobutadiene	8.662	225	11650	0.53	ppm	98
9) 2-Methylnaphthalene	9.743	142	22873	0.51	ppm	100
10) Hexachlorocyclopentadiene	10.077	237	2041	0.49	ppm	99
13) Acenaphthylene	11.496	152	47415	0.50	ppm	100
14) Acenaphthene	11.851	153	28119	0.50	ppm	98
15) Dibenzofuran	12.206	168	39182	0.53	ppm	96
16) Fluorene	12.875	166	34735	0.49	ppm #	46
18) Hexachlorobenzene	13.976	284	16548	0.51	ppm	99
19) Pentachlorophenol	14.409	266	22063	1.69	ppm	97
20) Phenanthrene	14.804	178	60939	0.50	ppm	100
21) Anthracene	14.898	178	60265	0.47	ppm	100
23) Fluoranthene	17.045	202	70218	0.54	ppm	98
24) Pyrene	17.440	202	70034	0.53	ppm	99
26) Benzo[a]anthracene	19.530	228	64299	0.53	ppm	99
27) Chrysene	19.586	228	64686	0.54	ppm	99
29) Benzo[b]fluoranthene	21.184	252	89716	0.56	ppm	100
30) Benzo[k]fluoranthene	21.225	252	53957	0.51	ppm	99
31) Benzo[a]pyrene	21.638	252	60595	0.53	ppm	98
32) Indeno[1,2,3-cd]pyrene	23.208	276	79840m	0.56	ppm	
33) Dibenz[a,h]anthracene	23.249	278	61576	0.54	ppm	99
34) Benzo[g,h,i]perylene	23.607	276	69289	0.55	ppm	100
36) 1,4-Dioxane	2.320	88	15092	0.93	ppm #	1
37) 1-Methylnaphthalene	9.910	142	22322	0.53	ppm	99
39) 4,6-dinitro-2-methylph...	13.066	198	19345	1.60	ppm	93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2930\
Data File : 4m65480.D
Acq On : 24 May 2016 11:03 am
Operator : linseyk
Sample : ic2930-.5
Misc : op93641a,e4m2930
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 24 11:29:42 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2930SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue May 24 11:02:23 2016
Response via : Initial Calibration

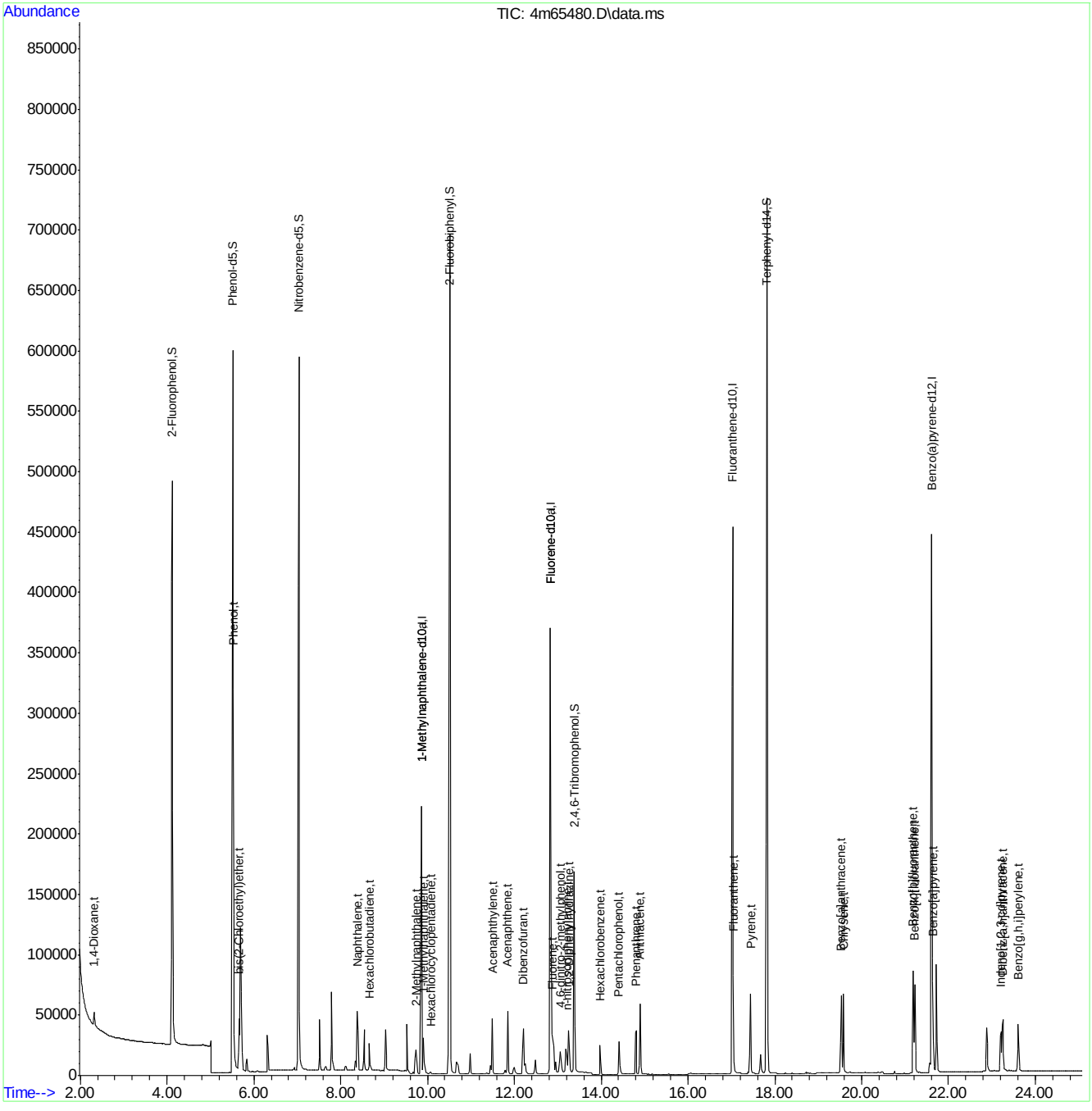
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) 1,2-Diphenylhydrazine	13.257	77	45554	0.46	ppm	100
41) n-nitrosodiphenylamine	13.209	169	23387	0.49	ppm	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2930\
Data File : 4m65480.D
Acq On : 24 May 2016 11:03 am
Operator : linseyk
Sample : ic2930-.5
Misc : op93641a,e4m2930
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 24 11:29:42 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2930SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue May 24 11:02:23 2016
Response via : Initial Calibration



Manual Integration Approval Summary

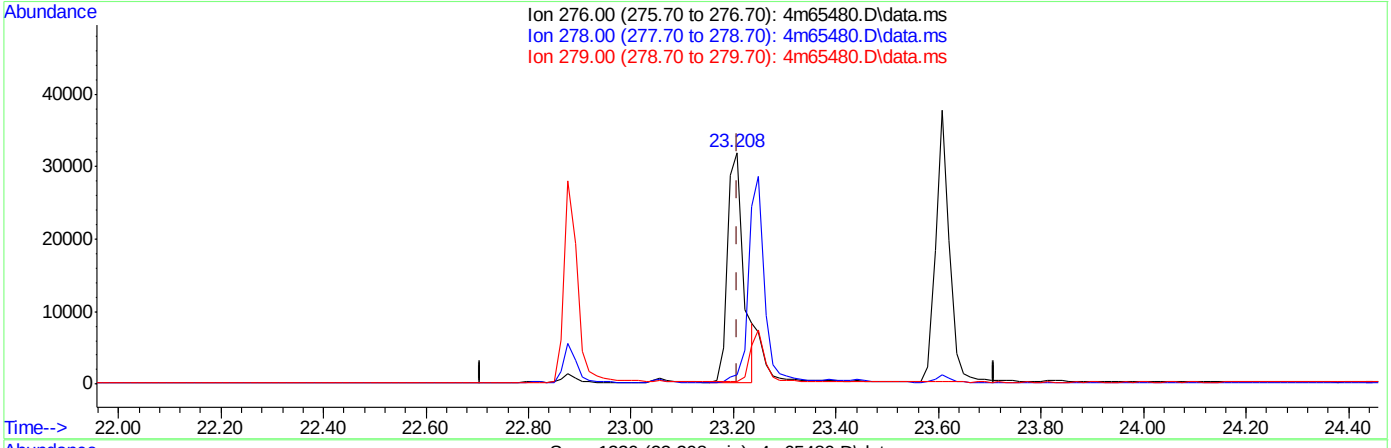
Sample Number:	E4M2930-IC2930	**Method:**	SW846 8270D BY SIM
Lab FileID:	4M65480.D	**Analyst approved:**	05/24/16 16:10 Linsey Kirschmann
Injection Time:	05/24/16 11:03	**Supervisor approved:**	05/25/16 11:35 Nina Pandya

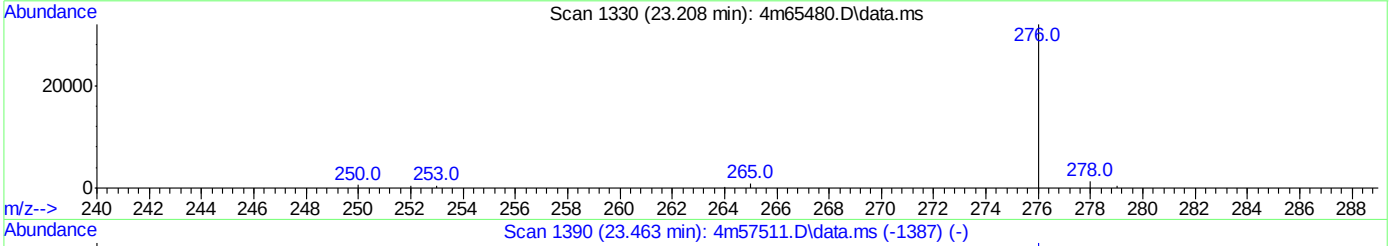
Parameter	CAS	Sig#	R.T. (min.)	Reason
Indeno(1,2,3-cd)pyrene	193-39-5		23.21	Poor instrument integration

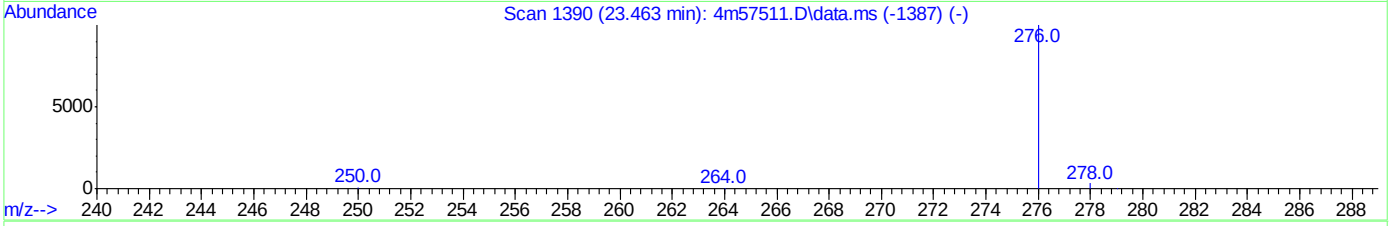
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M2930\
Data File : 4m65480.D
Acq On : 24 May 2016 11:03 am
Operator : linseyk
Sample : ic2930-.5
Misc : op93641a,e4m2930
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 24 11:28:49 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2930SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue May 24 11:02:23 2016
Response via : Initial Calibration







TIC: 4m65480.D\data.ms

(32) Indeno[1,2,3-cd]pyrene (t)

23.208min (-0.000) 0.48ppm

response 68769

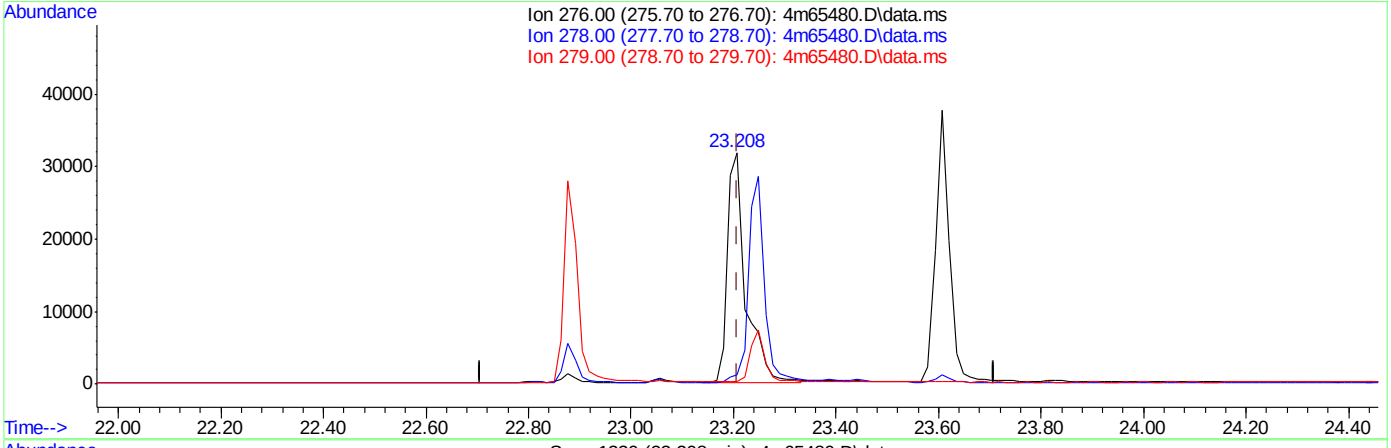
Ion	Exp%	Act%
276.00	100	100
278.00	3.70	0.00
279.00	0.80	0.00
0.00	0.00	0.00

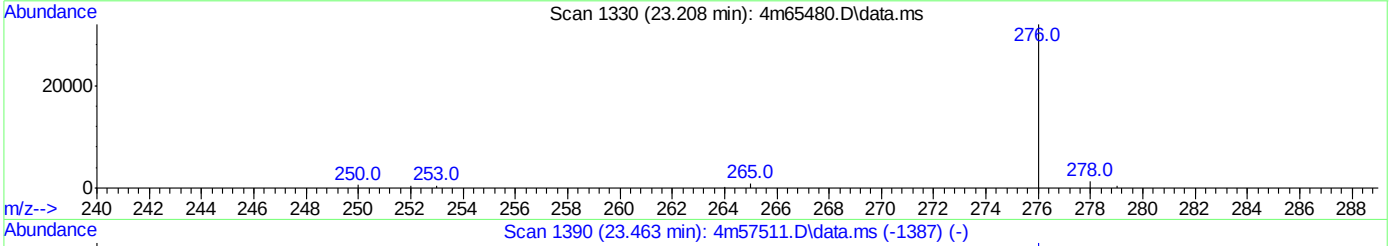
SGS ACCUTEST JC20098

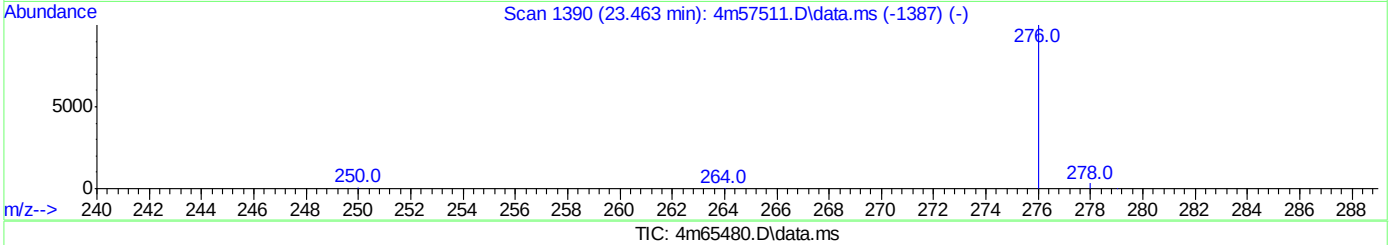
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M2930\
Data File : 4m65480.D
Acq On : 24 May 2016 11:03 am
Operator : linseyk
Sample : ic2930-.5
Misc : op93641a,e4m2930
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 24 11:28:49 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2930SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue May 24 11:02:23 2016
Response via : Initial Calibration







TIC: 4m65480.D\data.ms

(32) Indeno[1,2,3-cd]pyrene (t)

23.208min (-0.000) 0.56ppm m

response 79840

Ion	Exp%	Act%
276.00	100	100
278.00	3.70	4.29
279.00	0.80	1.30
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2930\
Data File : 4m65481.D
Acq On : 24 May 2016 11:33 am
Operator : linseyk
Sample : ic2930-.2
Misc : op93641a,e4m2930
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 24 12:03:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2930SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue May 24 11:02:23 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	9.863	152	189161	4.00	ppm	0.00
12) Fluorene-d10	12.827	176	352355	4.00	ppm	0.00
22) Fluoranthene-d10	17.012	212	709397	4.00	ppm	-0.01
28) Benzo(a)pyrene-d12	21.602	264	493356	4.00	ppm	0.00
35) 1-Methylnaphthalene-d10a	9.863	152	189161	4.00	ppm	0.00
38) Fluorene-d10a	12.827	176	352355	4.00	ppm	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	4.121	112	154736	4.70	ppm	0.00
Spiked Amount 50.000	Range 11 - 58		Recovery	=	9.40%#	
3) Phenol-d5	5.512	99	268422	4.59	ppm	0.00
Spiked Amount 50.000			Recovery	=	9.18%	
6) Nitrobenzene-d5	7.038	82	214050	4.54	ppm	0.00
Spiked Amount 50.000			Recovery	=	9.08%	
11) 2-Fluorobiphenyl	10.507	172	352389	4.61	ppm	0.00
Spiked Amount 50.000			Recovery	=	9.22%	
17) 2,4,6-Tribromophenol	13.376	330	64388	4.38	ppm	0.00
Spiked Amount 50.000			Recovery	=	8.76%	
25) Terphenyl-d14	17.822	244	337243	4.06	ppm	0.00
Spiked Amount 50.000			Recovery	=	8.12%	
Target Compounds						Qvalue
4) Phenol	5.526	94	73666	1.18	ppm	83
5) bis(2-Chloroethyl)ether	5.663	93	10639	0.23	ppm	78
7) Naphthalene	8.384	128	29204	0.23	ppm	99
8) Hexachlorobutadiene	8.662	225	5389	0.23	ppm	98
9) 2-Methylnaphthalene	9.743	142	10923	0.24	ppm	100
10) Hexachlorocyclopentadiene	10.077	237	481	0.15	ppm	96
13) Acenaphthylene	11.496	152	21007	0.23	ppm	99
14) Acenaphthene	11.851	153	12582	0.23	ppm	99
15) Dibenzofuran	12.206	168	17633	0.23	ppm	99
16) Fluorene	12.875	166	16435	0.24	ppm #	48
18) Hexachlorobenzene	13.981	284	7812	0.24	ppm	89
19) Pentachlorophenol	14.414	266	7087	0.66	ppm	97
20) Phenanthrene	14.790	178	28736	0.24	ppm	90
21) Anthracene	14.903	178	26462	0.22	ppm	96
23) Fluoranthene	17.050	202	32276	0.23	ppm	93
24) Pyrene	17.445	202	30063	0.21	ppm	92
26) Benzo[a]anthracene	19.516	228	29638	0.23	ppm #	85
27) Chrysene	19.573	228	30156	0.24	ppm	84
29) Benzo[b]fluoranthene	21.189	252	43138	0.25	ppm	96
30) Benzo[k]fluoranthene	21.230	252	33909	0.31	ppm	95
31) Benzo[a]pyrene	21.643	252	31582	0.26	ppm	93
32) Indeno[1,2,3-cd]pyrene	23.199	276	41637	0.27	ppm	96
33) Dibenz[a,h]anthracene	23.240	278	28941	0.24	ppm	76
34) Benzo[g,h,i]perylene	23.612	276	37254	0.28	ppm	100
36) 1,4-Dioxane	2.320	88	5242	0.22	ppm #	1
37) 1-Methylnaphthalene	9.910	142	10688	0.24	ppm	99
39) 4,6-dinitro-2-methylph...	13.066	198	7011	0.72	ppm	89

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2930\
Data File : 4m65481.D
Acq On : 24 May 2016 11:33 am
Operator : linseyk
Sample : ic2930-.2
Misc : op93641a,e4m2930
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 24 12:03:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2930SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue May 24 11:02:23 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
40) 1,2-Diphenylhydrazine	13.257	77	20835	0.22 ppm	100
41) n-nitrosodiphenylamine	13.209	169	10985	0.24 ppm	99

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

7.6.71

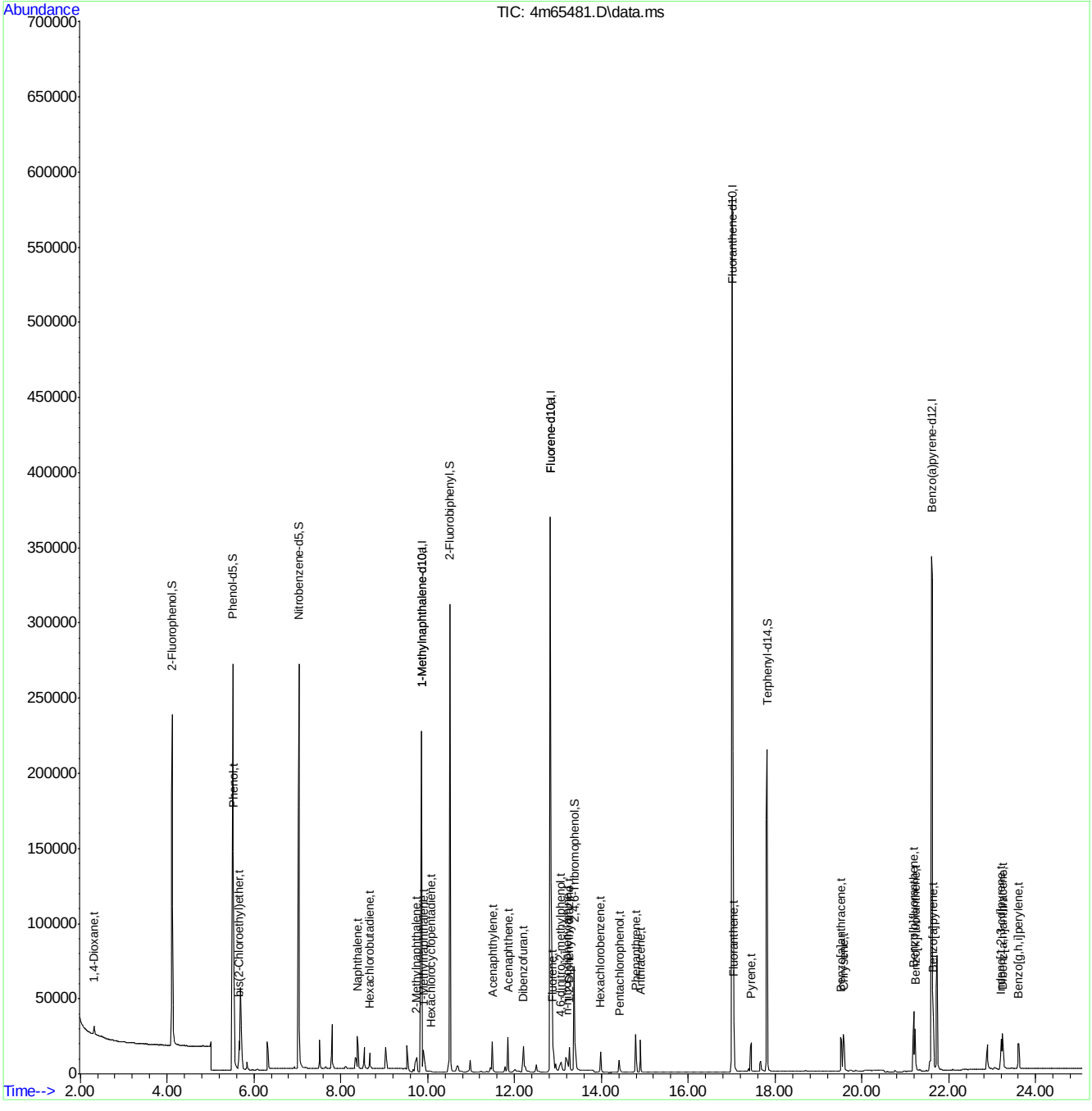
7

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2930\
Data File : 4m65481.D
Acq On : 24 May 2016 11:33 am
Operator : linseyk
Sample : ic2930-.2
Misc : op93641a,e4m2930
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 24 12:03:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2930SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue May 24 11:02:23 2016
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
05/25/16 11:35

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2930\
Data File : 4m65482.D
Acq On : 24 May 2016 12:04 pm
Operator : linseyk
Sample : ic2930-.1
Misc : op93641a,e4m2930
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 24 12:30:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2930SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue May 24 11:02:23 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	9.863	152	201496	4.00	ppm	0.00
12) Fluorene-d10	12.827	176	419203	4.00	ppm	0.00
22) Fluoranthene-d10	17.007	212	782159	4.00	ppm	-0.02
28) Benzo(a)pyrene-d12	21.611	264	571825	4.00	ppm	0.00
35) 1-Methylnaphthalene-d10a	9.863	152	201496	4.00	ppm	0.00
38) Fluorene-d10a	12.827	176	419203	4.00	ppm	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	4.121	112	73844	1.99	ppm	0.00
Spiked Amount 50.000	Range 11 - 58		Recovery	=	3.98%#	
3) Phenol-d5	5.512	99	130853	2.00	ppm	0.00
Spiked Amount 50.000			Recovery	=	4.00%	
6) Nitrobenzene-d5	7.038	82	101171	1.93	ppm	0.00
Spiked Amount 50.000			Recovery	=	3.86%	
11) 2-Fluorobiphenyl	10.507	172	167974	1.96	ppm	0.00
Spiked Amount 50.000			Recovery	=	3.92%	
17) 2,4,6-Tribromophenol	13.376	330	30229	1.68	ppm	0.00
Spiked Amount 50.000			Recovery	=	3.36%	
25) Terphenyl-d14	17.817	244	176253	1.92	ppm	0.00
Spiked Amount 50.000			Recovery	=	3.84%	
Target Compounds						Qvalue
4) Phenol	5.526	94	34947	0.50	ppm	89
5) bis(2-Chloroethyl)ether	5.664	93	5089	0.10	ppm #	64
7) Naphthalene	8.384	128	14076	0.10	ppm	99
8) Hexachlorobutadiene	8.662	225	2567	0.10	ppm	97
9) 2-Methylnaphthalene	9.743	142	5460	0.11	ppm	100
10) Hexachlorocyclopentadiene	10.078	237	115	0.04	ppm	82
13) Acenaphthylene	11.496	152	9751	0.08	ppm	98
14) Acenaphthene	11.851	153	5870	0.09	ppm	97
15) Dibenzofuran	12.206	168	8613	0.09	ppm	91
16) Fluorene	12.875	166	7975	0.09	ppm #	52
18) Hexachlorobenzene	13.976	284	3647	0.09	ppm	97
19) Pentachlorophenol	14.409	266	2508	0.22	ppm	91
20) Phenanthrene	14.786	178	13143	0.09	ppm	86
21) Anthracene	14.898	178	13049	0.09	ppm	99
23) Fluoranthene	17.045	202	15986	0.10	ppm	94
24) Pyrene	17.440	202	15347	0.10	ppm	96
26) Benzo[a]anthracene	19.530	228	15109	0.10	ppm	98
27) Chrysene	19.587	228	15631	0.10	ppm	97
29) Benzo[b]fluoranthene	21.184	252	32044	0.15	ppm	99
30) Benzo[k]fluoranthene	21.225	252	17446	0.12	ppm	98
31) Benzo[a]pyrene	21.638	252	20237	0.13	ppm	98
32) Indeno[1,2,3-cd]pyrene	23.208	276	24505	0.12	ppm	99
33) Dibenz[a,h]anthracene	23.235	278	16692	0.11	ppm	83
34) Benzo[g,h,i]perylene	23.607	276	21867	0.12	ppm	100
36) 1,4-Dioxane	2.320	88	3688m	0.14	ppm	
37) 1-Methylnaphthalene	9.910	142	5360	0.11	ppm	97
39) 4,6-dinitro-2-methylph...	13.066	198	3193	0.30	ppm	82

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2930\
Data File : 4m65482.D
Acq On : 24 May 2016 12:04 pm
Operator : linseyk
Sample : ic2930-.1
Misc : op93641a,e4m2930
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 24 12:30:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2930SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue May 24 11:02:23 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
40) 1,2-Diphenylhydrazine	13.257	77	8647	0.07	ppm		98
41) n-nitrosodiphenylamine	13.185	169	5230	0.09	ppm	#	47

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

7.6.72

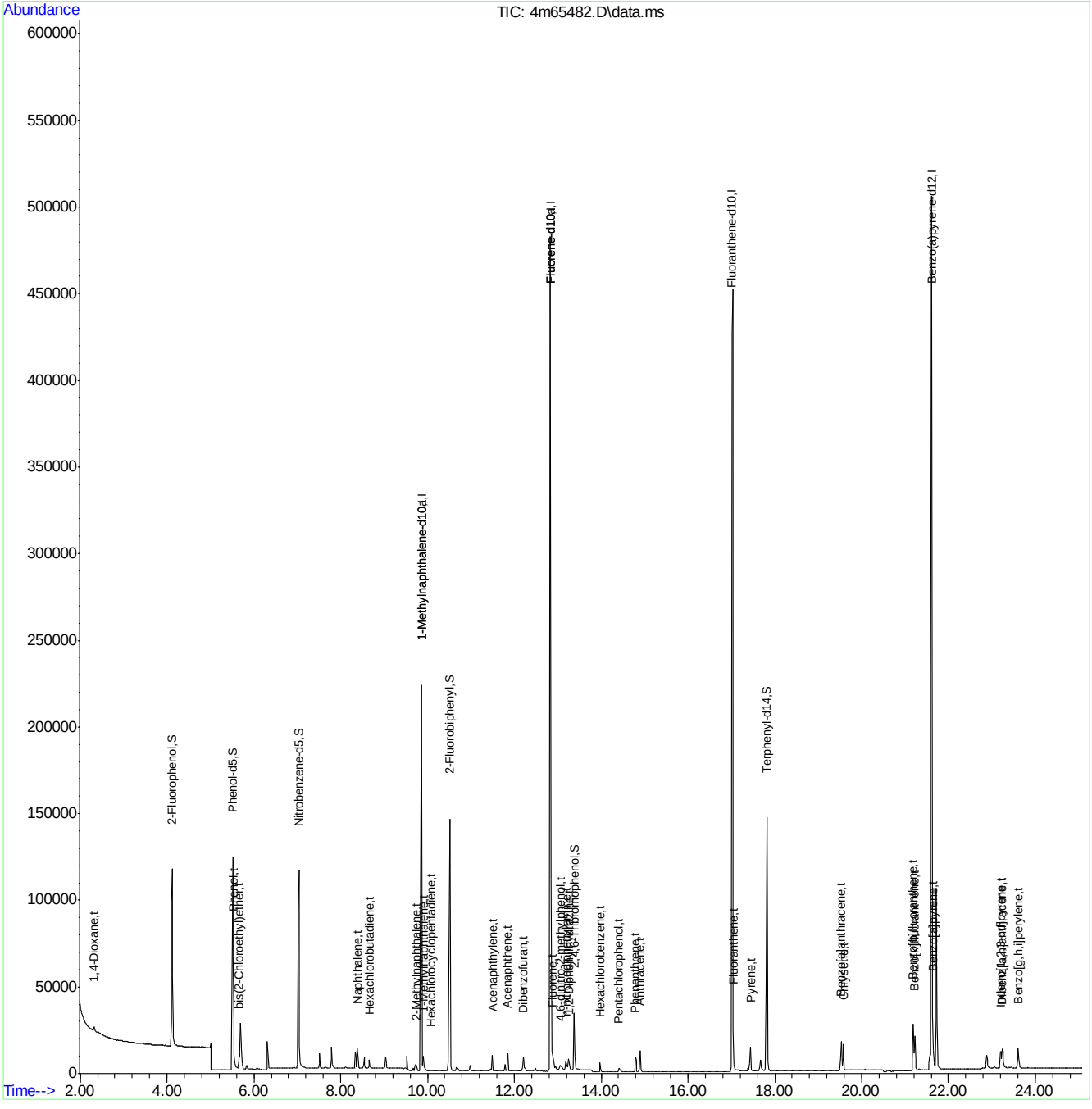
7

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2930\
Data File : 4m65482.D
Acq On : 24 May 2016 12:04 pm
Operator : linseyk
Sample : ic2930-.1
Misc : op93641a,e4m2930
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 24 12:30:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2930SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue May 24 11:02:23 2016
Response via : Initial Calibration



Manual Integration Approval Summary

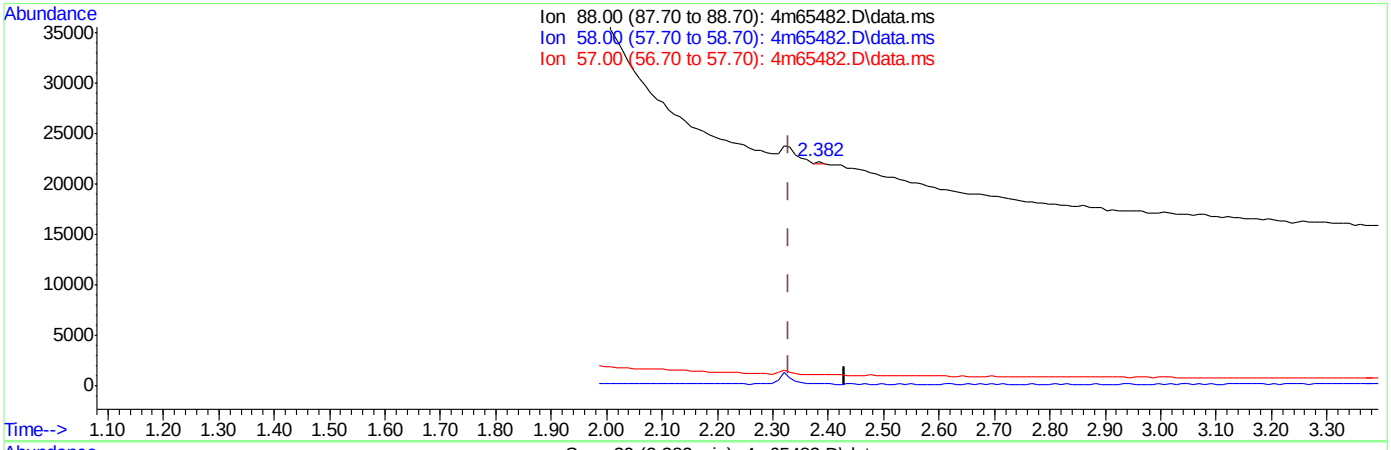
Sample Number:	E4M2930-IC2930	**Method:**	SW846 8270D BY SIM
Lab FileID:	4M65482.D	**Analyst approved:**	05/24/16 16:10 Linsey Kirschmann
Injection Time:	05/24/16 12:04	**Supervisor approved:**	05/25/16 11:35 Nina Pandya

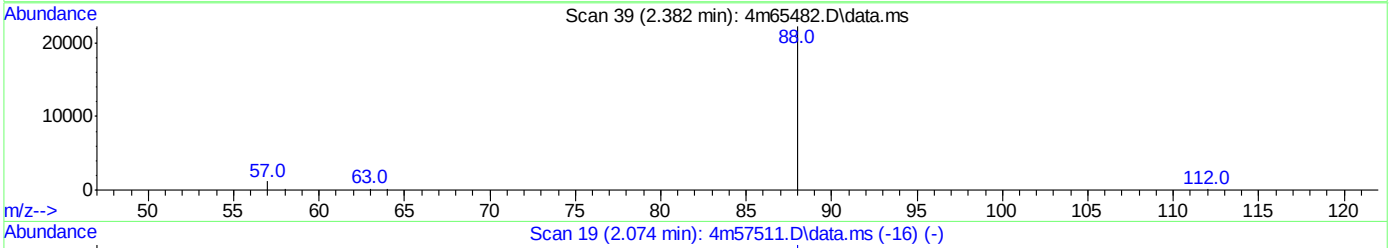
Parameter	CAS	Sig#	R.T. (min.)	Reason
1,4-Dioxane	123-91-1		2.32	Poor instrument integration

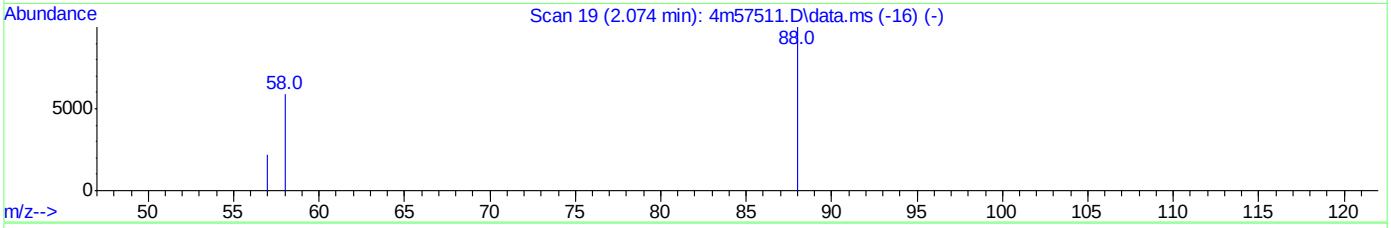
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M2930\
Data File : 4m65482.D
Acq On : 24 May 2016 12:04 pm
Operator : linseyk
Sample : ic2930-.1
Misc : op93641a,e4m2930
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 24 12:29:41 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2930SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue May 24 11:02:23 2016
Response via : Initial Calibration







TIC: 4m65482.D\data.ms

(36) 1,4-Dioxane (t)

2.382min (+0.052) 0.01ppm

response 170

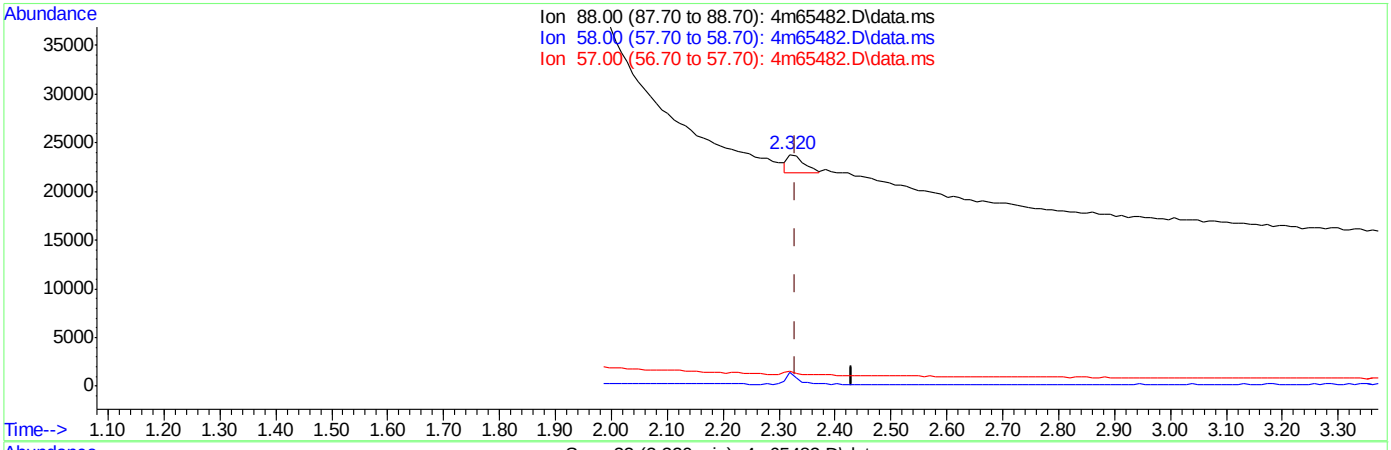
Ion	Exp%	Act%
88.00	100	100
58.00	14.00	0.00
57.00	6.30	2.80
0.00	0.00	0.00

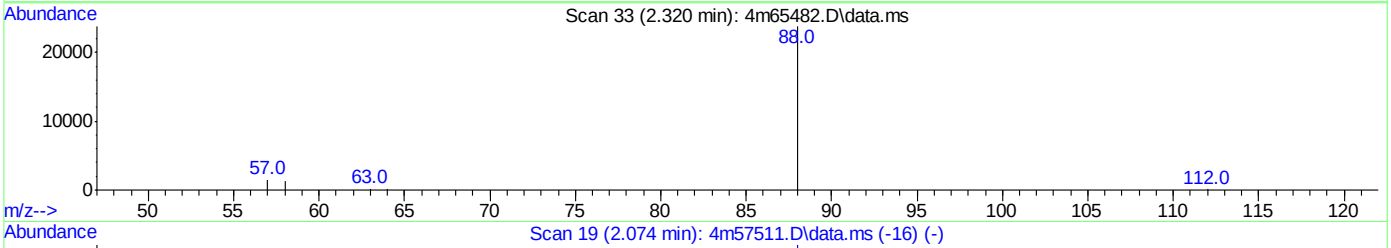
SGS ACCUTEST JC20098

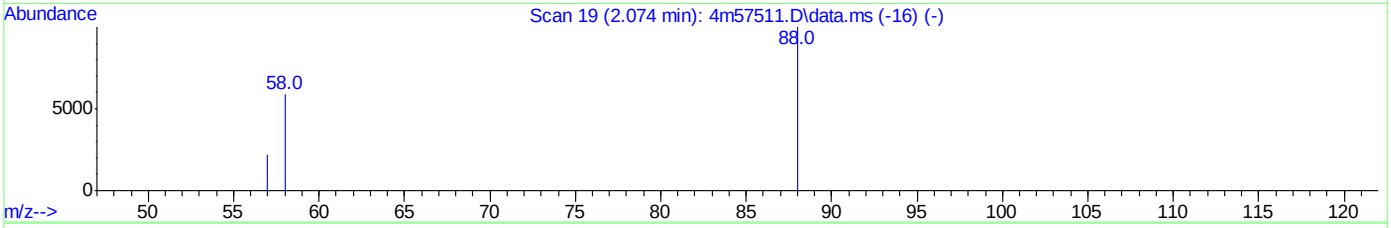
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M2930\
Data File : 4m65482.D
Acq On : 24 May 2016 12:04 pm
Operator : linseyk
Sample : ic2930-.1
Misc : op93641a,e4m2930
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 24 12:29:41 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2930SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue May 24 11:02:23 2016
Response via : Initial Calibration







TIC: 4m65482.D\data.ms

(36) 1,4-Dioxane (t)

2.320min (-0.010) 0.14ppm m

response 3688

Ion	Exp%	Act%
88.00	100	100
58.00	14.00	5.78
57.00	6.30	6.52
0.00	0.00	0.00

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2930\
Data File : 4m65483.D
Acq On : 24 May 2016 12:34 pm
Operator : linseyk
Sample : ic2930-.05
Misc : op93641a,e4m2930
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 24 15:05:23 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2930SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue May 24 15:04:10 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	9.863	152	191198	4.00	ppm	0.00
12) Fluorene-d10	12.827	176	401384	4.00	ppm	0.00
22) Fluoranthene-d10	17.007	212	720657	4.00	ppm	-0.02
28) Benzo(a)pyrene-d12	21.611	264	543041	4.00	ppm	0.00
35) 1-Methylnaphthalene-d10a	9.863	152	191198	4.00	ppm	0.00
38) Fluorene-d10a	12.827	176	401384	4.00	ppm	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	4.121	112	35204	1.00	ppm	0.00
Spiked Amount 50.000	Range 11 - 58		Recovery	=	2.00%#	
3) Phenol-d5	5.512	99	62362	1.01	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.02%	
6) Nitrobenzene-d5	7.038	82	48004	0.97	ppm	0.00
Spiked Amount 50.000			Recovery	=	1.94%	
11) 2-Fluorobiphenyl	10.507	172	78193	0.97	ppm	0.00
Spiked Amount 50.000			Recovery	=	1.94%	
17) 2,4,6-Tribromophenol	13.376	330	13896	0.84	ppm	0.00
Spiked Amount 50.000			Recovery	=	1.68%	
25) Terphenyl-d14	17.817	244	83117	0.99	ppm	0.00
Spiked Amount 50.000			Recovery	=	1.98%	
Target Compounds						Qvalue
4) Phenol	5.526	94	16861	0.25	ppm	91
5) bis(2-Chloroethyl)ether	5.663	93	2451	0.05	ppm #	64
7) Naphthalene	8.384	128	6722	0.05	ppm	98
8) Hexachlorobutadiene	8.662	225	1251	0.05	ppm	95
9) 2-Methylnaphthalene	9.743	142	2767	0.06	ppm	100
13) Acenaphthylene	11.496	152	4971	0.05	ppm	99
14) Acenaphthene	11.851	153	2786	0.04	ppm	96
15) Dibenzofuran	12.206	168	4085	0.05	ppm	99
16) Fluorene	12.875	166	3901	0.05	ppm #	52
18) Hexachlorobenzene	13.976	284	1834	0.05	ppm	94
19) Pentachlorophenol	14.409	266	1235	0.13	ppm	92
20) Phenanthrene	14.785	178	6325	0.04	ppm	84
21) Anthracene	14.898	178	6314	0.05	ppm	98
23) Fluoranthene	17.045	202	7850	0.05	ppm	89
24) Pyrene	17.440	202	7532	0.05	ppm	97
26) Benzo[a]anthracene	19.530	228	8136	0.06	ppm	98
27) Chrysene	19.587	228	8075	0.06	ppm	96
29) Benzo[b]fluoranthene	21.184	252	22846	0.10	ppm	98
30) Benzo[k]fluoranthene	21.225	252	11295	0.08	ppm	98
31) Benzo[a]pyrene	21.638	252	13087	0.08	ppm	99
32) Indeno[1,2,3-cd]pyrene	23.194	276	16148	0.08	ppm	95
33) Dibenz[a,h]anthracene	23.235	278	10057	0.07	ppm	82
34) Benzo[g,h,i]perylene	23.607	276	14242	0.08	ppm	100
37) 1-Methylnaphthalene	9.910	142	2515	0.05	ppm	98
39) 4,6-dinitro-2-methylph...	13.066	198	1483	0.16	ppm	83
40) 1,2-Diphenylhydrazine	13.257	77	5139	0.05	ppm	98
41) n-nitrosodiphenylamine	13.209	169	2489	0.05	ppm	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2930\
Data File : 4m65483.D
Acq On : 24 May 2016 12:34 pm
Operator : linseyk
Sample : ic2930-.05
Misc : op93641a,e4m2930
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 24 15:05:23 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2930SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue May 24 15:04:10 2016
Response via : Initial Calibration

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

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

7.6.73

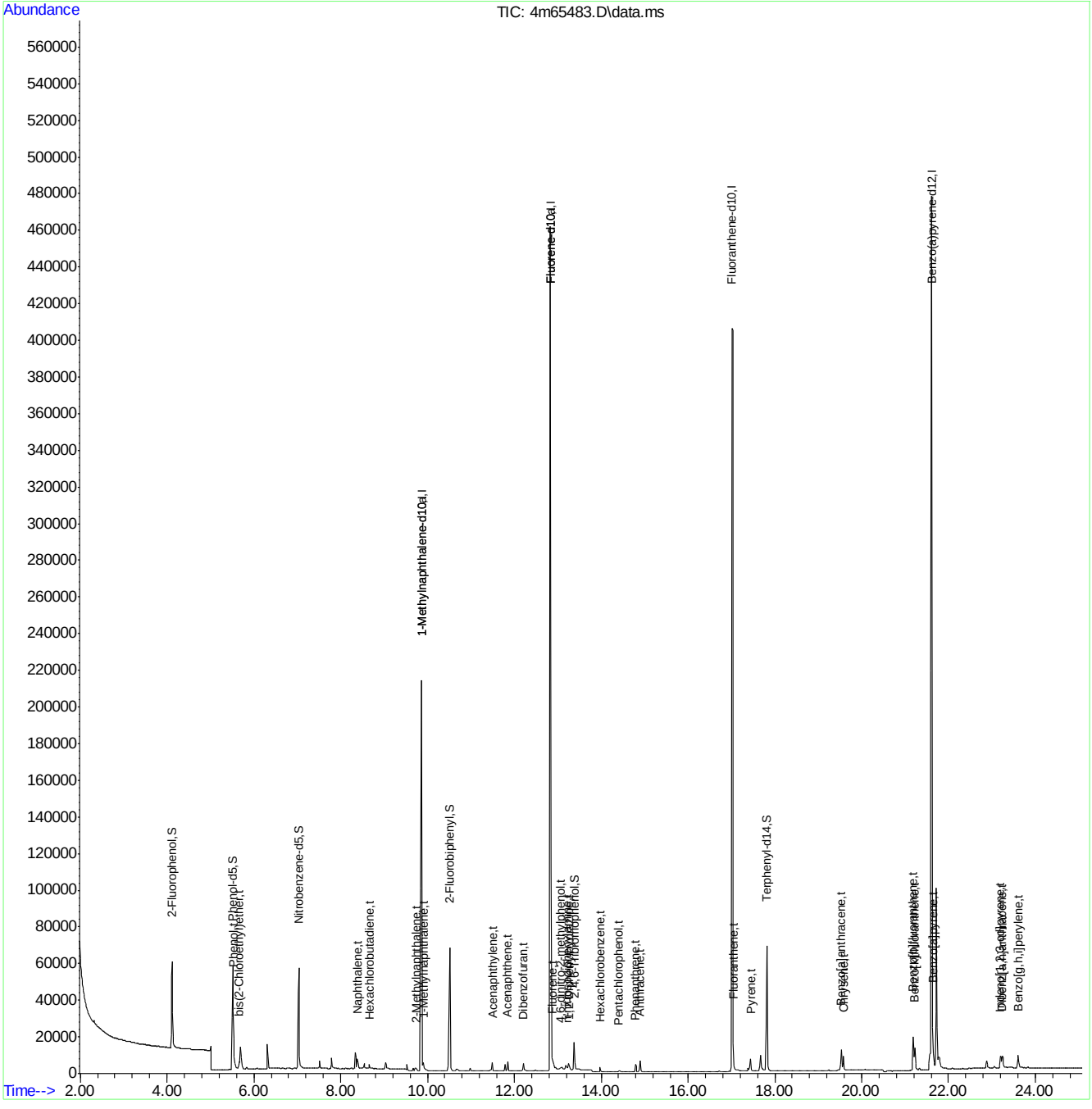
7

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2930\
Data File : 4m65483.D
Acq On : 24 May 2016 12:34 pm
Operator : linseyk
Sample : ic2930-.05
Misc : op93641a,e4m2930
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 24 15:05:23 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2930SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue May 24 15:04:10 2016
Response via : Initial Calibration



SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2930\
Data File : 4m65484.D
Acq On : 24 May 2016 1:05 pm
Operator : linseyk
Sample : ic2930-.02
Misc : op93641a,e4m2930
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 24 15:05:41 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2930SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue May 24 15:04:10 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	9.863	152	214339	4.00	ppm	0.00
12) Fluorene-d10	12.827	176	392677	4.00	ppm	0.00
22) Fluoranthene-d10	17.026	212	770312	4.00	ppm	0.00
28) Benzo(a)pyrene-d12	21.610	264	567285	4.00	ppm	0.00
35) 1-Methylnaphthalene-d10a	9.863	152	214339	4.00	ppm	0.00
38) Fluorene-d10a	12.827	176	392677	4.00	ppm	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	4.121	112	14794	0.37	ppm	0.00
Spiked Amount 50.000	Range 11 - 58		Recovery = 0.74%#			
3) Phenol-d5	5.512	99	26224	0.38	ppm	0.00
Spiked Amount 50.000			Recovery = 0.76%			
6) Nitrobenzene-d5	7.038	82	19727	0.36	ppm	0.00
Spiked Amount 50.000			Recovery = 0.72%			
11) 2-Fluorobiphenyl	10.507	172	33714	0.37	ppm	0.00
Spiked Amount 50.000			Recovery = 0.74%			
17) 2,4,6-Tribromophenol	13.376	330	5301	0.34	ppm	0.00
Spiked Amount 50.000			Recovery = 0.68%			
25) Terphenyl-d14	17.817	244	34861	0.39	ppm	0.00
Spiked Amount 50.000			Recovery = 0.78%			
Target Compounds						Qvalue
4) Phenol	5.526	94	6960	0.09	ppm	87
5) bis(2-Chloroethyl)ether	5.663	93	972	0.02	ppm	80
7) Naphthalene	8.384	128	2868	0.02	ppm	100
8) Hexachlorobutadiene	8.662	225	528	0.02	ppm	96
9) 2-Methylnaphthalene	9.743	142	1501	0.03	ppm	96
13) Acenaphthylene	11.496	152	2048	0.02	ppm	99
14) Acenaphthene	11.851	153	1271	0.02	ppm	98
15) Dibenzofuran	12.206	168	1716	0.02	ppm	98
16) Fluorene	12.875	166	1625	0.02	ppm #	45
18) Hexachlorobenzene	13.976	284	740	0.02	ppm	97
19) Pentachlorophenol	14.428	266	358	0.04	ppm	92
20) Phenanthrene	14.804	178	2870	0.02	ppm	98
21) Anthracene	14.898	178	2969	0.02	ppm	99
23) Fluoranthene	17.045	202	3612	0.02	ppm	93
24) Pyrene	17.440	202	3636	0.02	ppm	100
26) Benzo[a]anthracene	19.530	228	4436	0.03	ppm	99
27) Chrysene	19.586	228	4553	0.03	ppm	98
29) Benzo[b]fluoranthene	21.184	252	17622	0.06	ppm	97
30) Benzo[k]fluoranthene	21.225	252	8976	0.05	ppm	98
31) Benzo[a]pyrene	21.638	252	7206	0.04	ppm	98
32) Indeno[1,2,3-cd]pyrene	23.208	276	11716	0.05	ppm	97
33) Dibenz[a,h]anthracene	23.249	278	6381	0.04	ppm	100
34) Benzo[g,h,i]perylene	23.607	276	10557	0.05	ppm	99
37) 1-Methylnaphthalene	9.910	142	1104	0.02	ppm	97
39) 4,6-dinitro-2-methylph...	13.066	198	357	0.04	ppm #	11
40) 1,2-Diphenylhydrazine	13.257	77	1940	0.02	ppm	98
41) n-nitrosodiphenylamine	13.209	169	1094	0.02	ppm	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2930\
Data File : 4m65484.D
Acq On : 24 May 2016 1:05 pm
Operator : linseyk
Sample : ic2930-.02
Misc : op93641a,e4m2930
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 24 15:05:41 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2930SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue May 24 15:04:10 2016
Response via : Initial Calibration

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

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

7.6.74

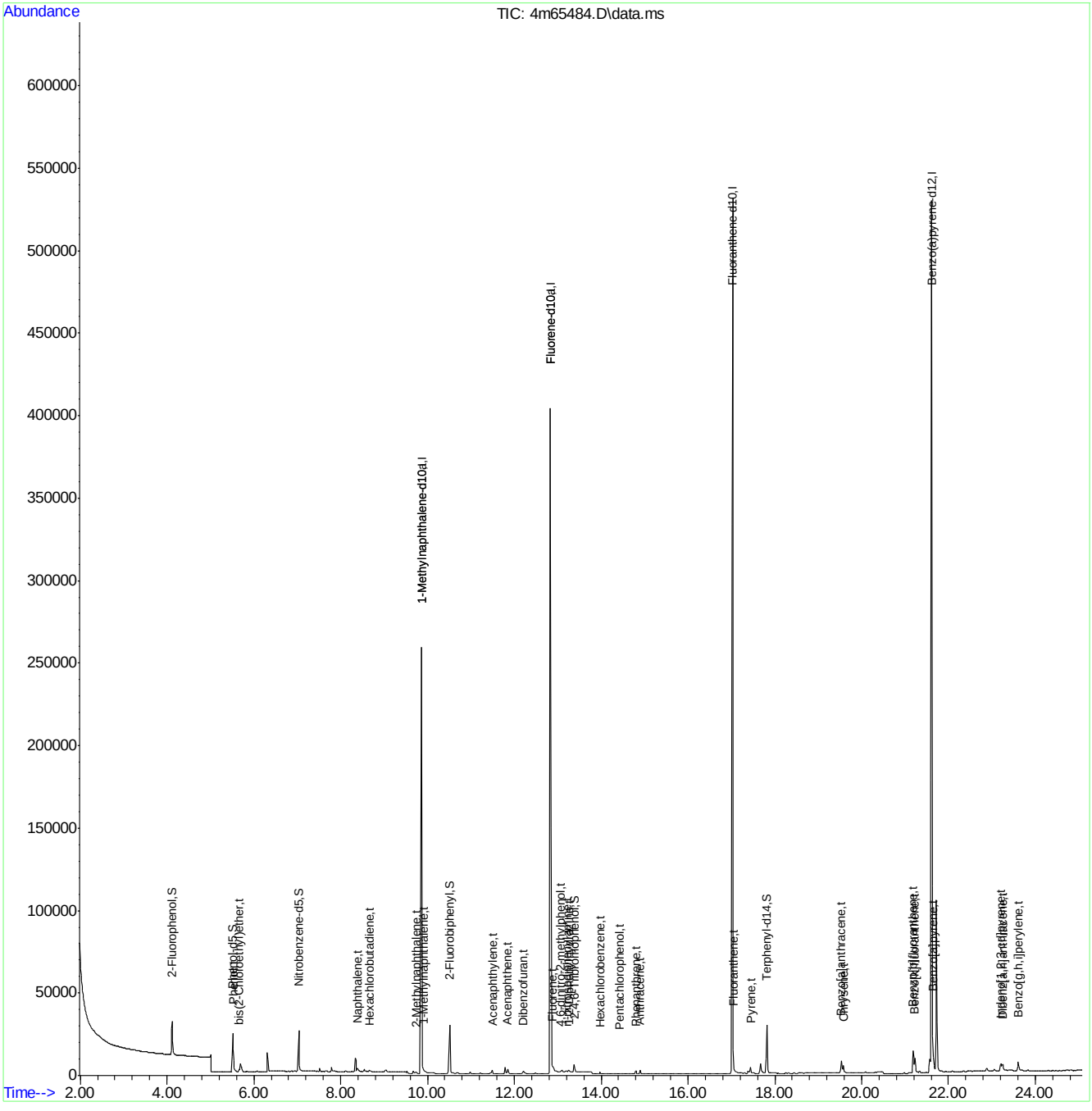
7

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2930\
Data File : 4m65484.D
Acq On : 24 May 2016 1:05 pm
Operator : linseyk
Sample : ic2930-.02
Misc : op93641a,e4m2930
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 24 15:05:41 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2930SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue May 24 15:04:10 2016
Response via : Initial Calibration



M4M2930SIM.M Tue May 24 15:06:15 2016 MANAGER Page: 3

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2930\
Data File : 4m65485.D
Acq On : 24 May 2016 1:35 pm
Operator : linseyk
Sample : ic2930-.01
Misc : op93641a,e4m2930
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 24 15:06:40 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2930SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue May 24 15:04:10 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	9.863	152	170534	4.00	ppm	0.00
12) Fluorene-d10	12.827	176	307447	4.00	ppm	0.00
22) Fluoranthene-d10	17.007	212	556858	4.00	ppm	-0.02
28) Benzo(a)pyrene-d12	21.611	264	460626	4.00	ppm	0.00
35) 1-Methylnaphthalene-d10a	9.863	152	170534	4.00	ppm	0.00
38) Fluorene-d10a	12.827	176	307447	4.00	ppm	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	4.121	112	7916	0.25	ppm	0.00
Spiked Amount 50.000	Range 11 - 58		Recovery	=	0.50%#	
3) Phenol-d5	5.512	99	13500	0.24	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.48%	
6) Nitrobenzene-d5	7.038	82	10305	0.24	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.48%	
11) 2-Fluorobiphenyl	10.507	172	18423	0.26	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.52%	
17) 2,4,6-Tribromophenol	13.376	330	3032	0.25	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.50%	
25) Terphenyl-d14	17.817	244	18811	0.29	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.58%	
Target Compounds						Qvalue
4) Phenol	5.526	94	3757	0.06	ppm	84
5) bis(2-Chloroethyl)ether	5.663	93	559	0.01	ppm	90
7) Naphthalene	8.384	128	1536	0.01	ppm	99
8) Hexachlorobutadiene	8.662	225	303	0.01	ppm	95
9) 2-Methylnaphthalene	9.743	142	967	0.02	ppm	91
13) Acenaphthylene	11.496	152	1143	0.01	ppm	96
14) Acenaphthene	11.851	153	728	0.02	ppm	94
15) Dibenzofuran	12.206	168	1041	0.02	ppm	75
16) Fluorene	12.875	166	954	0.02	ppm #	47
18) Hexachlorobenzene	13.976	284	427	0.01	ppm	95
19) Pentachlorophenol	14.428	266	140	0.02	ppm	86
20) Phenanthrene	14.785	178	1678	0.02	ppm	86
21) Anthracene	14.898	178	1714	0.02	ppm	98
23) Fluoranthene	17.045	202	2771	0.02	ppm	95
24) Pyrene	17.440	202	2104	0.02	ppm	96
26) Benzo[a]anthracene	19.530	228	2842	0.03	ppm #	97
27) Chrysene	19.586	228	3029	0.03	ppm	95
29) Benzo[b]fluoranthene	21.184	252	16073	0.07	ppm	97
30) Benzo[k]fluoranthene	21.225	252	6859	0.05	ppm	96
31) Benzo[a]pyrene	21.638	252	7085	0.05	ppm	99
32) Indeno[1,2,3-cd]pyrene	23.194	276	10184	0.05	ppm	93
33) Dibenz[a,h]anthracene	23.235	278	5255	0.04	ppm	68
34) Benzo[g,h,i]perylene	23.607	276	8894	0.05	ppm	100
37) 1-Methylnaphthalene	9.910	142	586	0.01	ppm	95
40) 1,2-Diphenylhydrazine	13.257	77	1053	0.01	ppm	98
41) n-nitrosodiphenylamine	13.209	169	593	0.01	ppm	95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2930\
Data File : 4m65485.D
Acq On : 24 May 2016 1:35 pm
Operator : linseyk
Sample : ic2930-.01
Misc : op93641a,e4m2930
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 24 15:06:40 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2930SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue May 24 15:04:10 2016
Response via : Initial Calibration

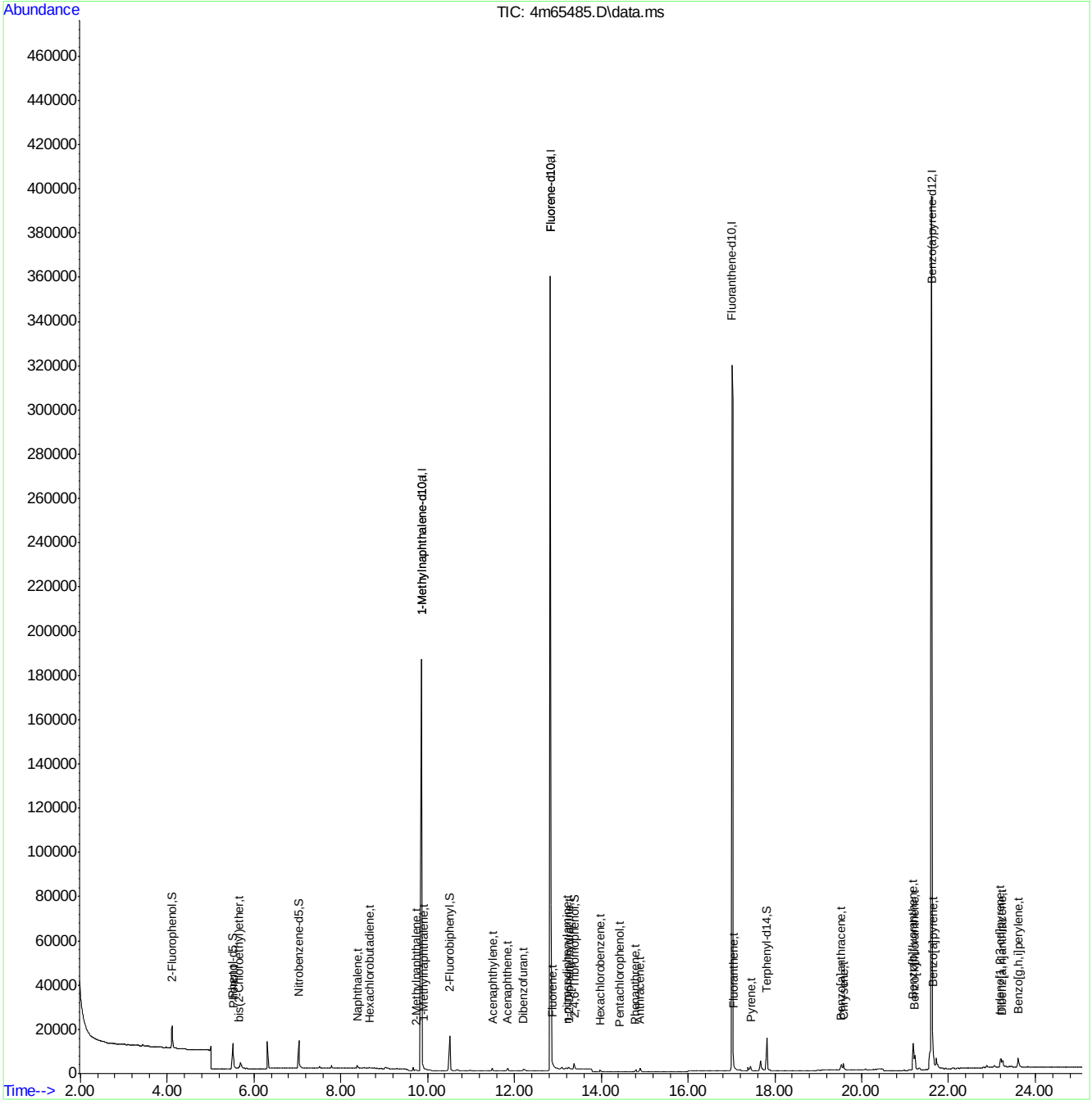
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2930\
Data File : 4m65485.D
Acq On : 24 May 2016 1:35 pm
Operator : linseyk
Sample : ic2930-.01
Misc : op93641a,e4m2930
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 24 15:06:40 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2930SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue May 24 15:04:10 2016
Response via : Initial Calibration



M4M2930SIM.M Tue May 24 15:06:49 2016 MANAGER Page: 3

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
05/25/16 11:35

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2930\
Data File : 4m65486.D
Acq On : 24 May 2016 2:05 pm
Operator : linseyk
Sample : ic2930-5
Misc : op93641a,e4m2930
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 24 15:07:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2930SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue May 24 15:04:10 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	9.863	152	160443	4.00	ppm	0.00
12) Fluorene-d10	12.827	176	377717	4.00	ppm	0.00
22) Fluoranthene-d10	17.007	212	597008	4.00	ppm	-0.02
28) Benzo(a)pyrene-d12	21.611	264	438314	4.00	ppm	0.00
35) 1-Methylnaphthalene-d10a	9.863	152	160443	4.00	ppm	0.00
38) Fluorene-d10a	12.827	176	377717	4.00	ppm	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	4.121	112	3287337	112.49	ppm	0.00
Spiked Amount 50.000	Range 11 - 58		Recovery = 224.98%#			
3) Phenol-d5	5.512	99	5563373	107.83	ppm	0.00
Spiked Amount 50.000			Recovery = 215.66%			
6) Nitrobenzene-d5	7.038	82	4612645	114.00	ppm	0.00
Spiked Amount 50.000			Recovery = 228.00%			
11) 2-Fluorobiphenyl	10.507	172	6316873	94.73	ppm	0.00
Spiked Amount 50.000			Recovery = 189.46%			
17) 2,4,6-Tribromophenol	13.376	330	1327049	87.95	ppm	0.00
Spiked Amount 50.000			Recovery = 175.90%			
25) Terphenyl-d14	17.817	244	6511224	94.27	ppm	0.00
Spiked Amount 50.000			Recovery = 188.54%			
Target Compounds						Qvalue
4) Phenol	5.526	94	1466515	26.44	ppm	97
5) bis(2-Chloroethyl)ether	5.664	93	216617	5.15	ppm	89
7) Naphthalene	8.384	128	577106	4.97	ppm	98
8) Hexachlorobutadiene	8.662	225	105874	4.89	ppm	94
9) 2-Methylnaphthalene	9.743	142	197496	3.83	ppm	96
10) Hexachlorocyclopentadiene	10.078	237	52441	30.86	ppm	95
13) Acenaphthylene	11.496	152	418868	4.00	ppm	98
14) Acenaphthene	11.851	153	247382	3.92	ppm	94
15) Dibenzofuran	12.206	168	351288	3.96	ppm	67
16) Fluorene	12.875	166	322194	3.90	ppm #	53
18) Hexachlorobenzene	13.976	284	148945	3.91	ppm	95
19) Pentachlorophenol	14.409	266	269569	33.79	ppm	92
20) Phenanthrene	14.786	178	541599	3.81	ppm	88
21) Anthracene	14.899	178	555737	3.91	ppm	97
23) Fluoranthene	17.045	202	631617	5.07	ppm	96
24) Pyrene	17.440	202	615981	5.09	ppm	96
26) Benzo[a]anthracene	19.530	228	534804	4.52	ppm	97
27) Chrysene	19.587	228	547228	4.59	ppm	96
29) Benzo[b]fluoranthene	21.184	252	587717	2.65	ppm	99
30) Benzo[k]fluoranthene	21.225	252	538305	4.09	ppm	99
31) Benzo[a]pyrene	21.638	252	509519	3.54	ppm	96
32) Indeno[1,2,3-cd]pyrene	23.194	276	627254m	3.46	ppm	
33) Dibenz[a,h]anthracene	23.235	278	514379	4.06	ppm	91
34) Benzo[g,h,i]perylene	23.607	276	552059	3.45	ppm	100
36) 1,4-Dioxane	2.320	88	107019	4.68	ppm #	33
37) 1-Methylnaphthalene	9.911	142	226584	5.26	ppm	94
39) 4,6-dinitro-2-methylph...	13.066	198	354622	44.49	ppm	93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2930\
Data File : 4m65486.D
Acq On : 24 May 2016 2:05 pm
Operator : linseyk
Sample : ic2930-5
Misc : op93641a,e4m2930
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 24 15:07:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2930SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue May 24 15:04:10 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
40) 1,2-Diphenylhydrazine	13.257	77	428410	4.39 ppm	100
41) n-nitrosodiphenylamine	13.209	169	207125	4.02 ppm	98

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

7.6.76

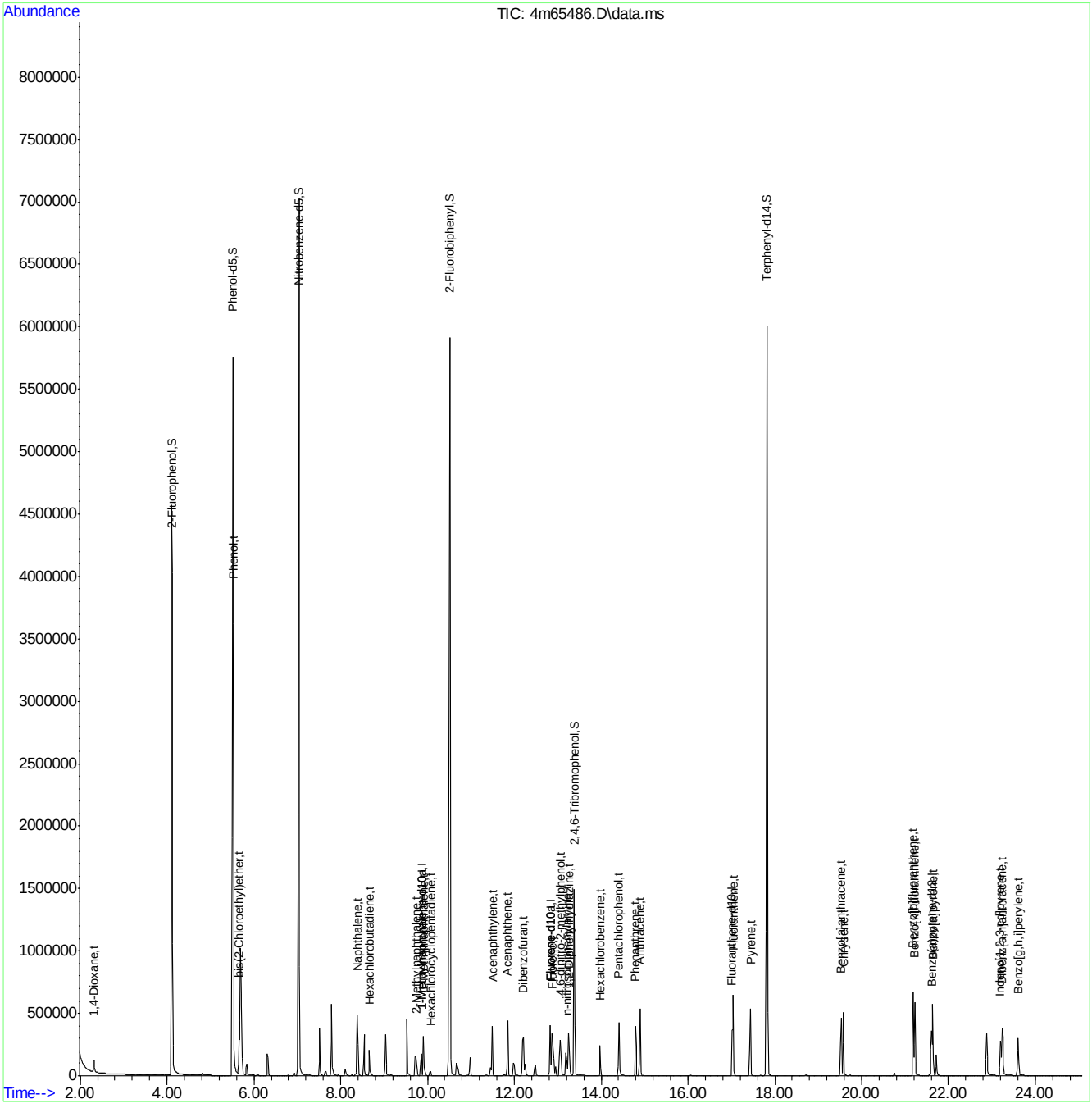
7

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2930\
Data File : 4m65486.D
Acq On : 24 May 2016 2:05 pm
Operator : linseyk
Sample : ic2930-5
Misc : op93641a,e4m2930
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 24 15:07:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2930SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue May 24 15:04:10 2016
Response via : Initial Calibration



Manual Integration Approval Summary

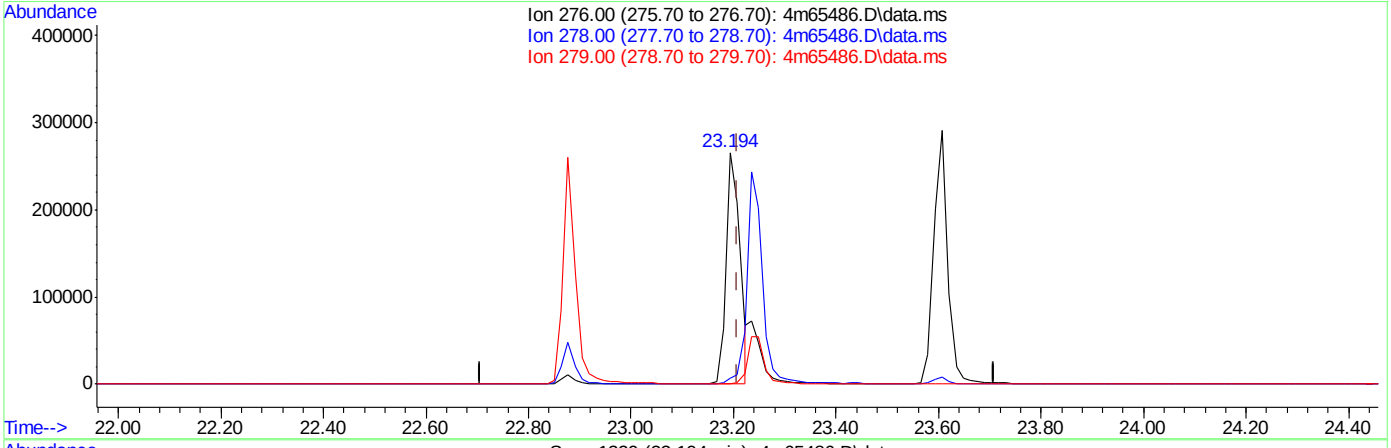
Sample Number:	E4M2930-IC2930	**Method:**	SW846 8270D BY SIM
Lab FileID:	4M65486.D	**Analyst approved:**	05/24/16 16:10 Linsey Kirschmann
Injection Time:	05/24/16 14:05	**Supervisor approved:**	05/25/16 11:35 Nina Pandya

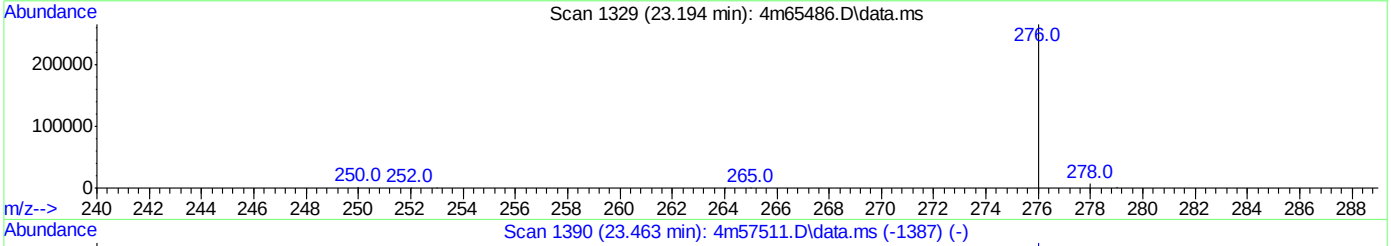
Parameter	CAS	Sig#	R.T. (min.)	Reason
Indeno(1,2,3-cd)pyrene	193-39-5		23.19	Poor instrument integration

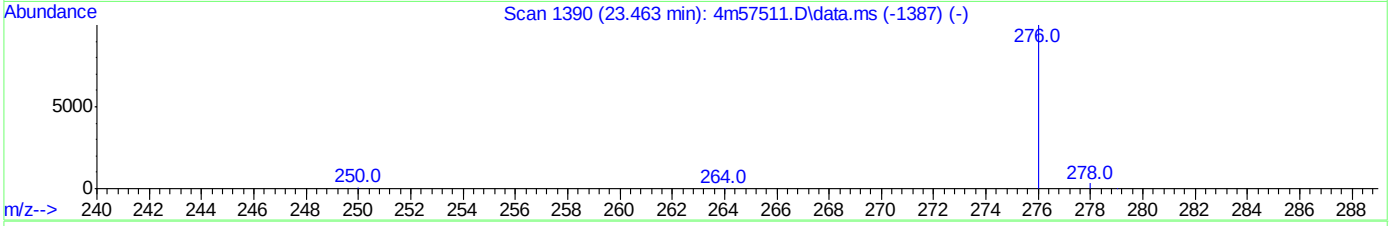
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M2930\
Data File : 4m65486.D
Acq On : 24 May 2016 2:05 pm
Operator : linseyk
Sample : ic2930-5
Misc : op93641a,e4m2930
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 24 15:07:00 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2930SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue May 24 15:04:10 2016
Response via : Initial Calibration







TIC: 4m65486.D\data.ms

(32) Indeno[1,2,3-cd]pyrene (t)

23.194min (-0.014) 2.77ppm

response 502137

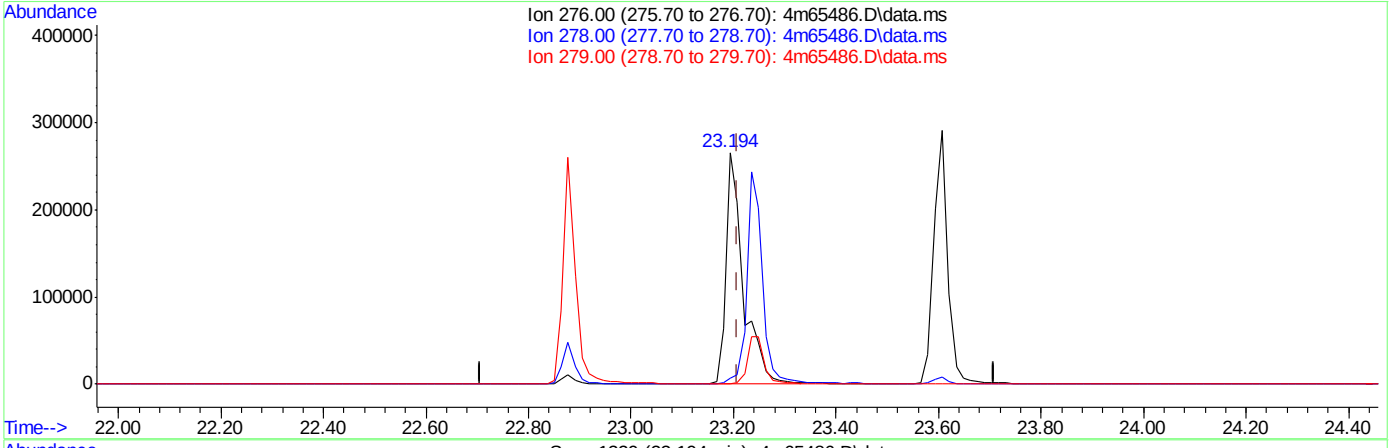
Ion	Exp%	Act%
276.00	100	100
278.00	3.70	0.00
279.00	0.80	0.00
0.00	0.00	0.00

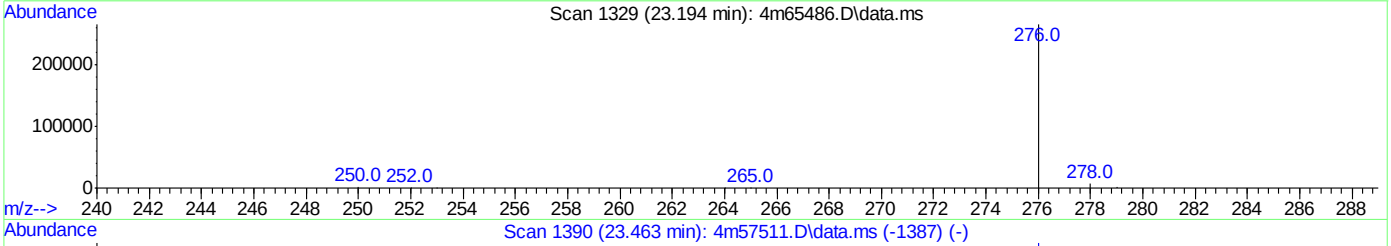
SGS ACCUTEST JC20098

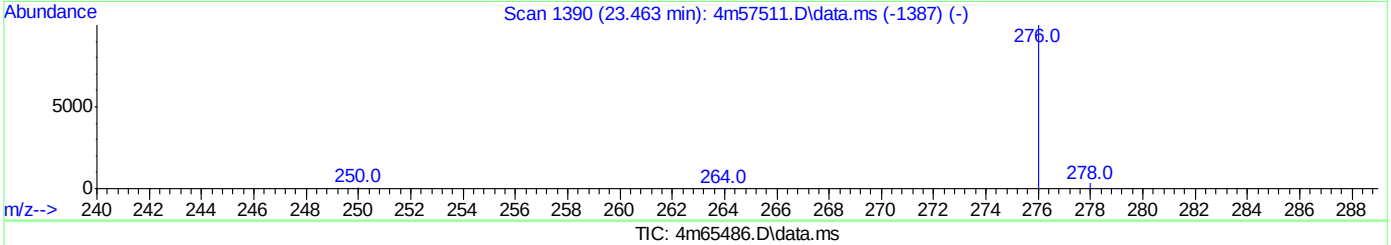
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M2930\
Data File : 4m65486.D
Acq On : 24 May 2016 2:05 pm
Operator : linseyk
Sample : ic2930-5
Misc : op93641a,e4m2930
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 24 15:07:00 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2930SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue May 24 15:04:10 2016
Response via : Initial Calibration







TIC: 4m65486.D\data.ms

(32) Indeno[1,2,3-cd]pyrene (t)

23.194min (-0.014) 3.46ppm m

response 627254

Ion	Exp%	Act%
276.00	100	100
278.00	3.70	2.75
279.00	0.80	0.41
0.00	0.00	0.00

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2930\
Data File : 4m65487.D
Acq On : 24 May 2016 2:36 pm
Operator : linseyk
Sample : ic2930-2.5
Misc : op93641a,e4m2930
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 24 15:08:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2930SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue May 24 15:07:59 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1-Methylnaphthalene-d10	9.863	152	160707	4.00	ppm		0.00
12) Fluorene-d10	12.827	176	366734	4.00	ppm		0.00
22) Fluoranthene-d10	17.012	212	694349	4.00	ppm		-0.01
28) Benzo(a)pyrene-d12	21.602	264	450707	4.00	ppm		0.00
35) 1-Methylnaphthalene-d10a	9.863	152	160707	4.00	ppm		0.00
38) Fluorene-d10a	12.827	176	366734	4.00	ppm		0.00
System Monitoring Compounds							
2) 2-Fluorophenol	4.110	112	1537602	51.61	ppm		-0.01
Spiked Amount 50.000	Range 11 - 58		Recovery = 103.22%#				
3) Phenol-d5	5.512	99	2735524	52.35	ppm		0.00
Spiked Amount 50.000			Recovery = 104.70%				
6) Nitrobenzene-d5	7.038	82	2230700	53.96	ppm		0.00
Spiked Amount 50.000			Recovery = 107.92%				
11) 2-Fluorobiphenyl	10.507	172	3625306	54.69	ppm		0.00
Spiked Amount 50.000			Recovery = 109.38%				
17) 2,4,6-Tribromophenol	13.376	330	744038	51.83	ppm		0.00
Spiked Amount 50.000			Recovery = 103.66%				
25) Terphenyl-d14	17.822	244	3830451	48.08	ppm		0.00
Spiked Amount 50.000			Recovery = 96.16%				
Target Compounds							Qvalue
4) Phenol	5.526	94	734858	13.12	ppm		79
5) bis(2-Chloroethyl)ether	5.663	93	107810	2.55	ppm	#	51
7) Naphthalene	8.384	128	288925	2.49	ppm		98
8) Hexachlorobutadiene	8.662	225	52429	2.42	ppm		94
9) 2-Methylnaphthalene	9.743	142	98066	1.95	ppm		97
10) Hexachlorocyclopentadiene	10.077	237	18322	7.60	ppm		95
13) Acenaphthylene	11.496	152	206469	2.08	ppm		98
14) Acenaphthene	11.851	153	122129	2.05	ppm		94
15) Dibenzofuran	12.206	168	186005	2.22	ppm		63
16) Fluorene	12.875	166	159365	2.04	ppm	#	53
18) Hexachlorobenzene	13.981	284	76960	2.14	ppm		83
19) Pentachlorophenol	14.414	266	105458	12.86	ppm		84
20) Phenanthrene	14.790	178	295944	2.21	ppm		92
21) Anthracene	14.903	178	270856	2.02	ppm		93
23) Fluoranthene	17.050	202	304089	2.10	ppm		90
24) Pyrene	17.426	202	308659	2.19	ppm		84
26) Benzo[a]anthracene	19.516	228	280446	2.07	ppm		100
27) Chrysene	19.573	228	282142	2.06	ppm		86
29) Benzo[b]fluoranthene	21.189	252	314696	1.50	ppm		93
30) Benzo[k]fluoranthene	21.216	252	269734	2.06	ppm		90
31) Benzo[a]pyrene	21.643	252	269518	1.92	ppm		92
32) Indeno[1,2,3-cd]pyrene	23.199	276	325205	1.84	ppm		97
33) Dibenz[a,h]anthracene	23.240	278	252571	2.00	ppm		76
34) Benzo[g,h,i]perylene	23.598	276	285127	1.83	ppm		100
36) 1,4-Dioxane	2.320	88	40068	1.77	ppm	#	11
37) 1-Methylnaphthalene	9.910	142	112103	2.58	ppm		94
39) 4,6-dinitro-2-methylph...	13.066	198	146606	16.76	ppm		92

7.6.77
7
SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2930\
Data File : 4m65487.D
Acq On : 24 May 2016 2:36 pm
Operator : linseyk
Sample : ic2930-2.5
Misc : op93641a,e4m2930
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 24 15:08:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2930SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue May 24 15:07:59 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
40) 1,2-Diphenylhydrazine	13.257	77	205003	2.22	ppm		98
41) n-nitrosodiphenylamine	13.185	169	106180	2.21	ppm	#	50

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

7.6.77

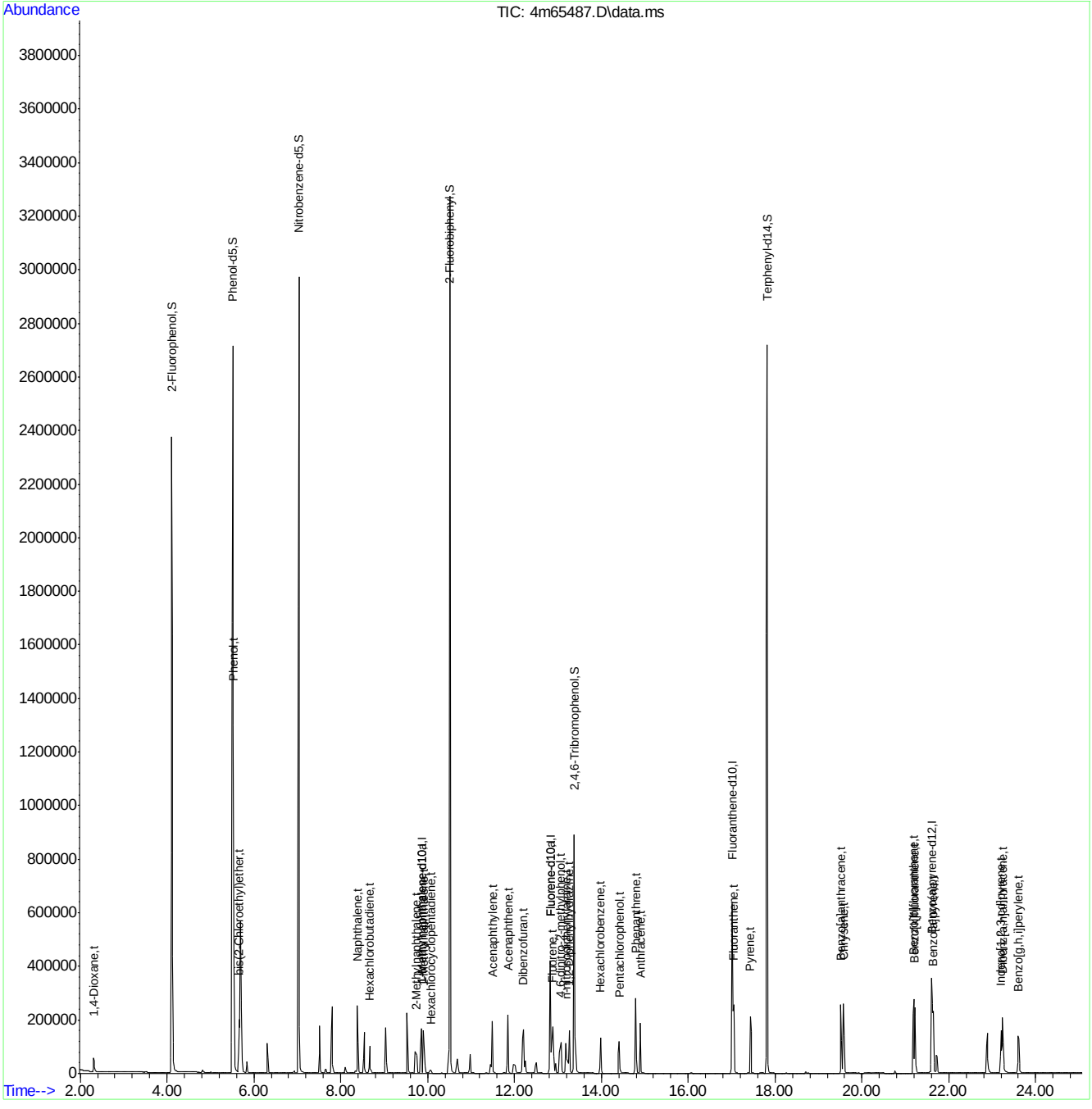
7

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2930\
Data File : 4m65487.D
Acq On : 24 May 2016 2:36 pm
Operator : linseyk
Sample : ic2930-2.5
Misc : op93641a,e4m2930
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 24 15:08:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2930SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue May 24 15:07:59 2016
Response via : Initial Calibration



SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2930\
Data File : 4m65488.D
Acq On : 24 May 2016 3:36 pm
Operator : linseyk
Sample : icv2930-1
Misc : op93641a,e4m2930
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 24 16:02:10 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2930SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue May 24 15:19:32 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	9.863	152	177542	4.00	ppm	0.00
12) Fluorene-d10	12.827	176	291225	4.00	ppm	0.00
22) Fluoranthene-d10	17.012	212	568495	4.00	ppm	-0.01
28) Benzo(a)pyrene-d12	21.616	264	419810	4.00	ppm	0.00
35) 1-Methylnaphthalene-d10a	9.863	152	177542	4.00	ppm	0.00
38) Fluorene-d10a	12.827	176	291225	4.00	ppm	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	0.000	112	0d	0.00	ppm	
Spiked Amount 50.000	Range 11 - 58		Recovery	=	0.00%#	
3) Phenol-d5	0.000	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
6) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
11) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
17) 2,4,6-Tribromophenol	0.000	330	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Terphenyl-d14	0.000	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
5) bis(2-Chloroethyl)ether	5.663	93	57812	1.23	ppm	83
7) Naphthalene	8.384	128	154286	1.20	ppm	99
8) Hexachlorobutadiene	8.662	225	27917	1.17	ppm	97
9) 2-Methylnaphthalene	9.743	142	53116	1.10	ppm	100
10) Hexachlorocyclopentadiene	10.077	237	2520	0.97	ppm	99
13) Acenaphthylene	11.496	152	105784	1.37	ppm	100
14) Acenaphthene	11.851	153	66308	1.52	ppm	98
15) Dibenzofuran	12.206	168	88731	1.44	ppm	72
16) Fluorene	12.875	166	78278	1.37	ppm #	46
18) Hexachlorobenzene	13.981	284	38243	1.36	ppm	89
20) Phenanthrene	14.790	178	145749	1.48	ppm	90
21) Anthracene	14.903	178	132132	1.36	ppm	96
23) Fluoranthene	17.050	202	161679	1.39	ppm	92
24) Pyrene	17.445	202	159798	1.41	ppm	93
26) Benzo[a]anthracene	19.516	228	142476	1.32	ppm	99
27) Chrysene	19.573	228	143864	1.32	ppm	85
29) Benzo[b]fluoranthene	21.189	252	169273	1.02	ppm	97
30) Benzo[k]fluoranthene	21.230	252	162160	1.48	ppm	97
31) Benzo[a]pyrene	21.643	252	148819	1.17	ppm	94
32) Indeno[1,2,3-cd]pyrene	23.199	276	186037	1.30	ppm	96
33) Dibenz[a,h]anthracene	23.240	278	141431	1.24	ppm	88
34) Benzo[g,h,i]perylene	23.612	276	163935	1.17	ppm	100
36) 1,4-Dioxane	2.309	88	16025	0.97	ppm #	35
40) 1,2-Diphenylhydrazine	13.257	77	105092	1.46	ppm	99
41) n-nitrosodiphenylamine	13.209	169	50973	1.36	ppm	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2930\
Data File : 4m65488.D
Acq On : 24 May 2016 3:36 pm
Operator : linseyk
Sample : icv2930-1
Misc : op93641a,e4m2930
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 24 16:02:10 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2930SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue May 24 15:19:32 2016
Response via : Initial Calibration

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

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

7.6.78

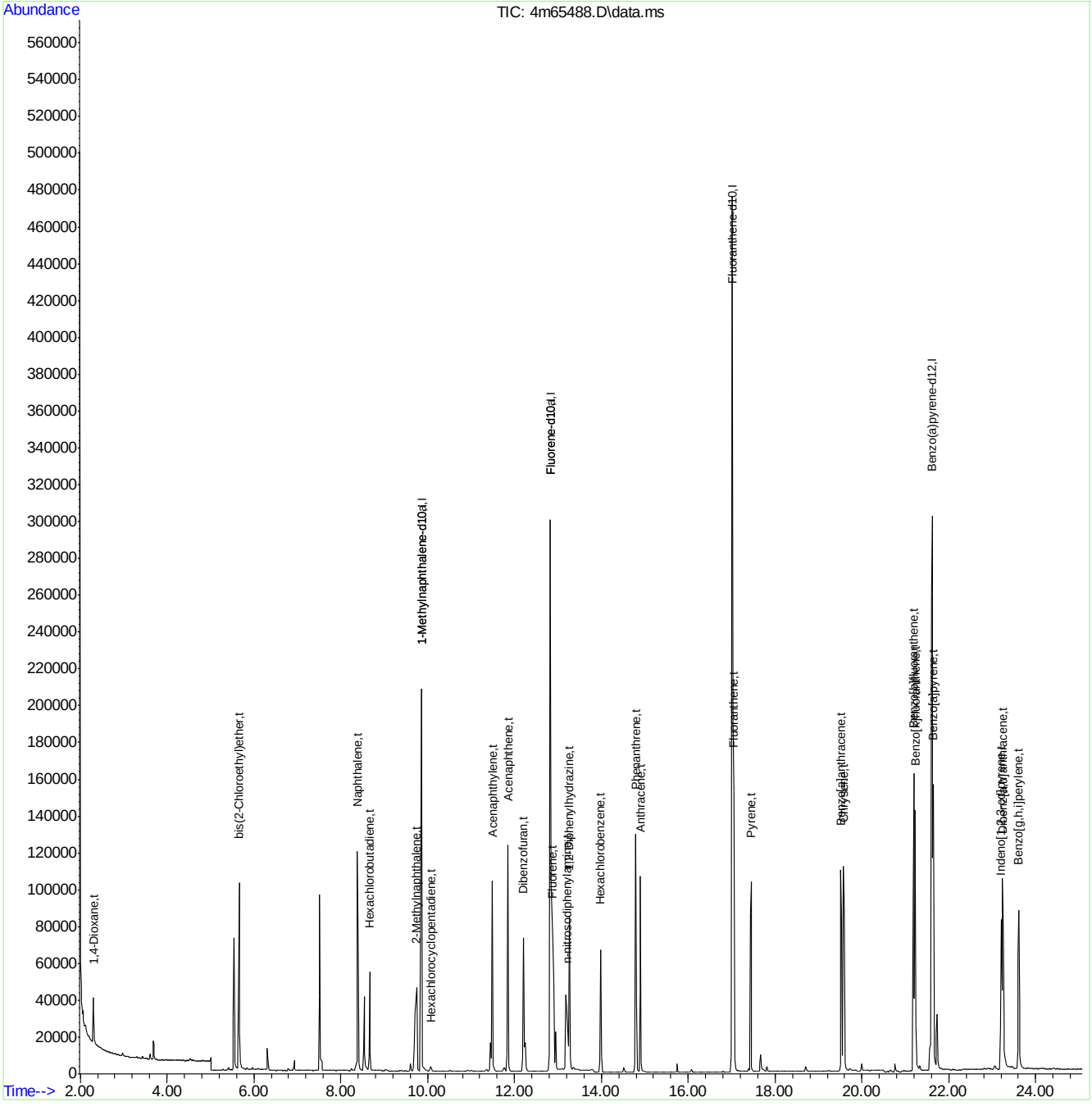
7

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2930\
Data File : 4m65488.D
Acq On : 24 May 2016 3:36 pm
Operator : linseyk
Sample : icv2930-1
Misc : op93641a,e4m2930
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 24 16:02:10 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2930SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue May 24 15:19:32 2016
Response via : Initial Calibration



M4M2930SIM.M Wed May 25 13:01:45 2016 MANAGER Page: 3

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2931\
Data File : 4m65490.D
Acq On : 24 May 2016 4:18 pm
Operator : linseyk
Sample : cc2930-1
Misc : op93641a,e4m2931
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 25 08:17:46 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2930SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue May 24 15:19:32 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	9.863	152	184943	4.00	ppm	0.00
12) Fluorene-d10	12.827	176	413529	4.00	ppm	0.00
22) Fluoranthene-d10	17.007	212	718364	4.00	ppm	-0.02
28) Benzo(a)pyrene-d12	21.611	264	526306	4.00	ppm	0.00
35) 1-Methylnaphthalene-d10a	9.863	152	184943	4.00	ppm	0.00
38) Fluorene-d10a	12.827	176	413529	4.00	ppm	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	4.111	112	742753	21.58	ppm	-0.01
Spiked Amount 50.000	Range 11 - 58		Recovery = 43.16%			
3) Phenol-d5	5.512	99	1293466	21.38	ppm	0.00
Spiked Amount 50.000			Recovery = 42.76%			
6) Nitrobenzene-d5	7.038	82	1038890	21.62	ppm	0.00
Spiked Amount 50.000			Recovery = 43.24%			
11) 2-Fluorobiphenyl	10.507	172	1713858	22.21	ppm	0.00
Spiked Amount 50.000			Recovery = 44.42%			
17) 2,4,6-Tribromophenol	13.376	330	348846	21.44	ppm	0.00
Spiked Amount 50.000			Recovery = 42.88%			
25) Terphenyl-d14	17.817	244	1881355	22.93	ppm	0.00
Spiked Amount 50.000			Recovery = 45.86%			
Target Compounds						Qvalue
4) Phenol	5.526	94	351264	5.42	ppm	74
5) bis(2-Chloroethyl)ether	5.664	93	51827	1.06	ppm #	38
7) Naphthalene	8.384	128	140433	1.05	ppm	99
8) Hexachlorobutadiene	8.662	225	25558	1.03	ppm	94
9) 2-Methylnaphthalene	9.743	142	46938	0.93	ppm	98
10) Hexachlorocyclopentadiene	10.077	237	6330	1.95	ppm	98
13) Acenaphthylene	11.496	152	98225	0.90	ppm	98
14) Acenaphthene	11.851	153	58188	0.94	ppm	95
15) Dibenzofuran	12.206	168	88055	1.01	ppm	71
16) Fluorene	12.875	166	77487	0.96	ppm #	51
18) Hexachlorobenzene	13.976	284	36742	0.92	ppm	94
19) Pentachlorophenol	14.409	266	48440	5.22	ppm	96
20) Phenanthrene	14.785	178	131276	0.94	ppm	87
21) Anthracene	14.898	178	129419	0.94	ppm	98
23) Fluoranthene	17.045	202	152852	1.04	ppm	97
24) Pyrene	17.440	202	151879	1.06	ppm	97
26) Benzo[a]anthracene	19.530	228	128911	0.94	ppm	100
27) Chrysene	19.587	228	136005	0.99	ppm	97
29) Benzo[b]fluoranthene	21.184	252	147161	0.71	ppm	99
30) Benzo[k]fluoranthene	21.225	252	143292	1.04	ppm	99
31) Benzo[a]pyrene	21.638	252	135596	0.85	ppm	97
32) Indeno[1,2,3-cd]pyrene	23.194	276	159614	0.89	ppm	96
33) Dibenz[a,h]anthracene	23.249	278	128804	0.90	ppm	97
34) Benzo[g,h,i]perylene	23.607	276	142882	0.82	ppm	100
36) 1,4-Dioxane	2.320	88	19556	1.14	ppm #	44
37) 1-Methylnaphthalene	9.910	142	52184	1.04	ppm	95
39) 4,6-dinitro-2-methylph...	13.066	198	50386	4.23	ppm	95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2931\
Data File : 4m65490.D
Acq On : 24 May 2016 4:18 pm
Operator : linseyk
Sample : cc2930-1
Misc : op93641a,e4m2931
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 25 08:17:46 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2930SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue May 24 15:19:32 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
40) 1,2-Diphenylhydrazine	13.257	77	94555	0.92	ppm		99
41) n-nitrosodiphenylamine	13.185	169	49551	0.93	ppm	#	51

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

7.6.79

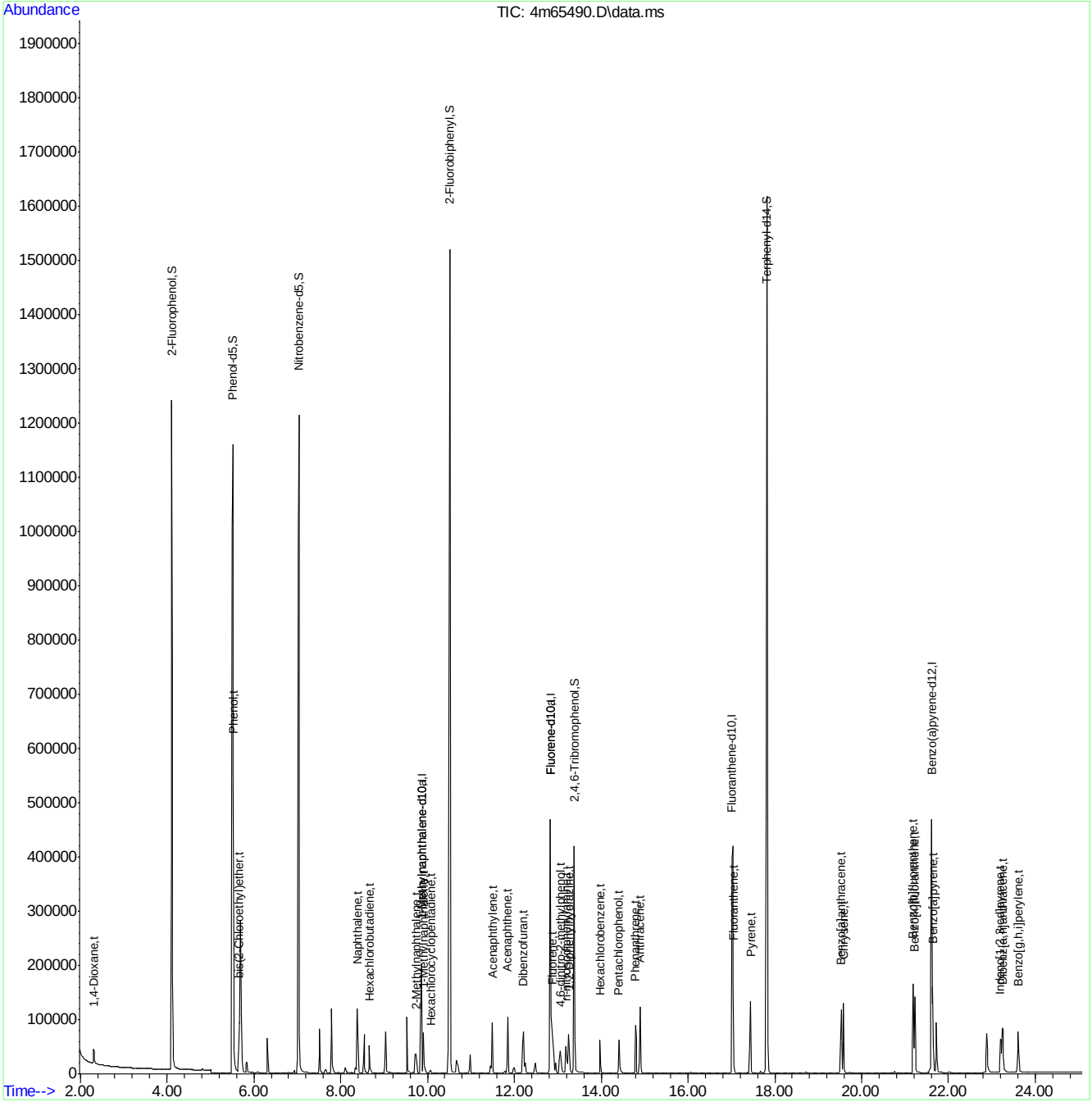
7

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2931\
Data File : 4m65490.D
Acq On : 24 May 2016 4:18 pm
Operator : linseyk
Sample : cc2930-1
Misc : op93641a,e4m2931
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 25 08:17:46 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2930SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue May 24 15:19:32 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25924.D
Acq On : 13 May 2016 9:24 am
Operator : ariellec
Sample : ic1209-2
Misc : op93693,e6p1209
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 13 09:55:31 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 09:48:02 2016
QLast Update : Fri May 13 09:52:10 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.869	152	579980	40.00	ppm	0.00
24) Naphthalene-d8	5.997	136	2376057	40.00	ppm	0.00
47) Acenaphthene-d10	8.110	164	1358066	40.00	ppm	0.00
69) Phenanthrene-d10	10.303	188	2403780	40.00	ppm	0.00
83) Chrysene-d12	14.491	240	2318295	40.00	ppm	0.00
92) Perylene-d12	16.604	264	2248542	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.869	152	579980	40.00	ppm	0.00
104) Acenaphthene-d10a	8.110	164	1358066	40.00	ppm	0.00
106) Phenanthrene-d10a	10.303	188	2403780	40.00	ppm	0.00
110) Chrysene-d12a	14.491	240	2318295	40.00	ppm	0.00
112) Naphthalene-d8a	5.997	136	2376057	40.00	ppm	0.00
114) Chrysene-d12b	14.491	240	2318295	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.858	112	47403	2.00	ppm	0.00
Spiked Amount 50.000			Recovery	=	4.00%	
8) Phenol-d5	4.569	99	61107	2.00	ppm	0.00
Spiked Amount 50.000			Recovery	=	4.00%	
25) Nitrobenzene-d5	5.324	82	57208	2.00	ppm	0.00
Spiked Amount 50.000			Recovery	=	4.00%	
51) 2-Fluorobiphenyl	7.217	172	93452	2.00	ppm	0.00
Spiked Amount 50.000			Recovery	=	4.00%	
73) 2,4,6-Tribromophenol	9.244	330	13234	2.00	ppm	0.00
Spiked Amount 50.000			Recovery	=	4.00%	
85) Terphenyl-d14	12.860	244	104394	2.00	ppm	0.00
Spiked Amount 50.000			Recovery	=	4.00%	
108) o-Terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
109) 1-Chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.457	88	21972	2.00	ppm	96
3) Pyridine	2.772	79	54572	2.00	ppm	98
4) N-Nitrosodimethylamine	2.735	74	35013	2.00	ppm	95
6) Indene	5.072	116	84063	2.00	ppm	96
7) Cumene	4.259	105	121434	2.00	ppm	97
9) Phenol	4.580	94	64897	2.00	ppm	88
10) Aniline	4.607	93	78978	2.00	ppm	93
11) bis(2-Chloroethyl)ether	4.655	93	47512	2.00	ppm	95
12) 2-Chlorophenol	4.698	128	47141	2.00	ppm	99
13) Decane	4.730	43	65348	2.00	ppm	87
14) 1,3-Dichlorobenzene	4.821	146	50573	2.00	ppm	95
15) 1,4-Dichlorobenzene	4.880	146	50695	2.00	ppm	92
16) Benzyl alcohol	4.971	108	32221	2.00	ppm	96
17) 1,2-Dichlorobenzene	5.003	146	49526	2.00	ppm	98
18) Acetophenone	5.190	105	71785	2.00	ppm	85
19) 2-Methylphenol	5.056	108	44763	2.00	ppm	98
20) 2,2'-oxybis(1-Chloropr...	5.083	121	17370	2.00	ppm #	69

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25924.D
Acq On : 13 May 2016 9:24 am
Operator : ariellec
Sample : ic1209-2
Misc : op93693,e6p1209
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 13 09:55:31 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 09:48:02 2016
QLast Update : Fri May 13 09:52:10 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
21) 3&4-Methylphenol	5.179	108	48883	2.00	ppm		97
22) n-Nitroso-di-n-propyla...	5.184	70	42997	2.00	ppm		92
23) Hexachloroethane	5.286	201	14771	2.00	ppm	#	73
26) Nitrobenzene	5.340	77	60230	2.00	ppm		95
27) Quinoline	6.367	129	93672	2.00	ppm		96
28) Isophorone	5.548	82	100868	2.00	ppm		94
29) 2-Nitrophenol	5.623	139	24261	2.00	ppm		97
30) 2,4-Dimethylphenol	5.650	107	43453	2.00	ppm		96
31) Benzoic acid	5.693	105	16933	2.00	ppm	#	48
32) bis(2-Chloroethoxy)met...	5.746	93	59253	2.00	ppm		98
33) 2,4-Dichlorophenol	5.848	162	35808	2.00	ppm		97
34) 2,6-Dichlorophenol	6.072	162	35395	2.00	ppm		99
35) 1,3,5-Trichlorobenzene	5.634	180	41596	2.00	ppm		92
36) 1,2,4-Trichlorobenzene	5.939	180	37463	2.00	ppm		92
37) 1,2,3-Trichlorobenzene	6.163	180	37794	2.00	ppm		99
38) Naphthalene	6.019	128	148396	2.00	ppm		98
39) 4-Chloroaniline	6.067	127	59938	2.00	ppm		96
40) 2,3-Dichloroaniline	7.110	161	45039	2.00	ppm		99
41) Caprolactam	6.415	55	22520	2.00	ppm		94
42) Hexachlorobutadiene	6.142	225	19595	2.00	ppm		95
43) 4-Chloro-3-methylphenol	6.580	107	45145	2.00	ppm		95
44) 2-Methylnaphthalene	6.773	141	80082	2.00	ppm		94
45) 1-Methylnaphthalene	6.891	141	78772	2.00	ppm		98
46) Dimethylnaphthalene	7.549	156	81062	2.00	ppm		96
48) Hexachlorocyclopentadiene	6.955	237	34528	4.00	ppm		98
49) 2,4,6-Trichlorophenol	7.105	196	22700	2.00	ppm		94
50) 2,4,5-Trichlorophenol	7.147	196	24622	2.00	ppm		96
52) 2-Chloronaphthalene	7.367	162	83781	2.00	ppm		95
53) Biphenyl	7.345	154	112833	2.00	ppm		98
54) 2-Nitroaniline	7.495	65	28103	2.00	ppm		96
55) Dimethylphthalate	7.752	163	96270	2.00	ppm		100
56) Acenaphthylene	7.912	152	139581	2.00	ppm		98
57) 2,6-Dinitrotoluene	7.827	165	16499	2.00	ppm		90
58) 3-Nitroaniline	8.051	138	22854	2.00	ppm		98
59) Acenaphthene	8.153	153	90069	2.00	ppm		96
60) 2,4-Dinitrophenol	8.196	184	4425	4.00	ppm		88
61) 4-Nitrophenol	8.287	109	13956	2.00	ppm		93
62) Dibenzofuran	8.394	168	121972	2.00	ppm		96
63) 2,4-Dinitrotoluene	8.383	165	24838	2.00	ppm		84
64) 2,3,4,6-Tetrachlorophenol	8.570	232	18355	2.00	ppm		86
65) Diethylphthalate	8.763	149	102464	2.00	ppm		94
66) Fluorene	8.891	166	103523	2.00	ppm		97
67) 4-Chlorophenyl-phenyle...	8.912	204	46867	2.00	ppm		89
68) 4-Nitroaniline	8.918	138	27846	2.00	ppm		96
70) 4,6-Dinitro-2-methylph...	8.971	198	4669	2.00	ppm	#	43
71) n-Nitrosodiphenylamine	9.084	169	69803	2.00	ppm		98
72) 1,2-Diphenylhydrazine	9.142	77	129635	2.00	ppm		94
74) 4-Bromophenyl-phenylether	9.640	248	26583	2.00	ppm		91
75) Hexachlorobenzene	9.699	284	26797	2.00	ppm		89
76) Pentachlorophenol	10.009	266	31175	4.00	ppm		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25924.D
Acq On : 13 May 2016 9:24 am
Operator : ariellec
Sample : ic1209-2
Misc : op93693,e6p1209
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 13 09:55:31 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 09:48:02 2016
QLast Update : Fri May 13 09:52:10 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
77) Phenanthrene	10.335	178	151926	2.00	ppm	98
78) Anthracene	10.410	178	155434	2.00	ppm	97
79) Carbazole	10.678	167	141967	2.00	ppm	99
80) Di-n-butylphthalate	11.314	149	184323	2.00	ppm	99
81) Fluoranthene	12.197	202	165745	2.00	ppm	90
82) Octadecane	10.239	57	80524	2.00	ppm	91
84) Pyrene	12.550	202	171256	2.00	ppm	98
86) Butylbenzylphthalate	13.699	149	83601	2.00	ppm	91
87) Butyl stearate	13.865	56	61342	2.00	ppm	95
88) Benzo[a]anthracene	14.475	228	156992	2.00	ppm	96
89) 3,3'-Dichlorobenzidine	14.475	252	53366	2.00	ppm	96
90) Chrysene	14.529	228	145599	2.00	ppm	99
91) bis(2-Ethylhexyl)phtha...	14.657	149	140227	2.00	ppm	97
93) Di-n-octylphthalate	15.652	149	193568	2.00	ppm	100
94) Benzo[b]fluoranthene	16.074	252	152950	2.00	ppm	78
95) Benzo[k]fluoranthene	16.112	252	153254	2.00	ppm	94
96) Benzo[a]pyrene	16.518	252	134524	2.00	ppm	97
97) Indeno[1,2,3-cd]pyrene	17.994	276	132876	2.00	ppm	94
98) Dibenz(a,h)acridine	17.690	279	126859	2.00	ppm	98
99) Dibenz[a,h]anthracene	18.037	278	150150	2.00	ppm	94
100) 7,12-Dimethylbenz(a)an...	16.074	256	59736	2.00	ppm	94
101) Benzo[g,h,i]perylene	18.374	276	143768	2.00	ppm	92

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

7.6.80

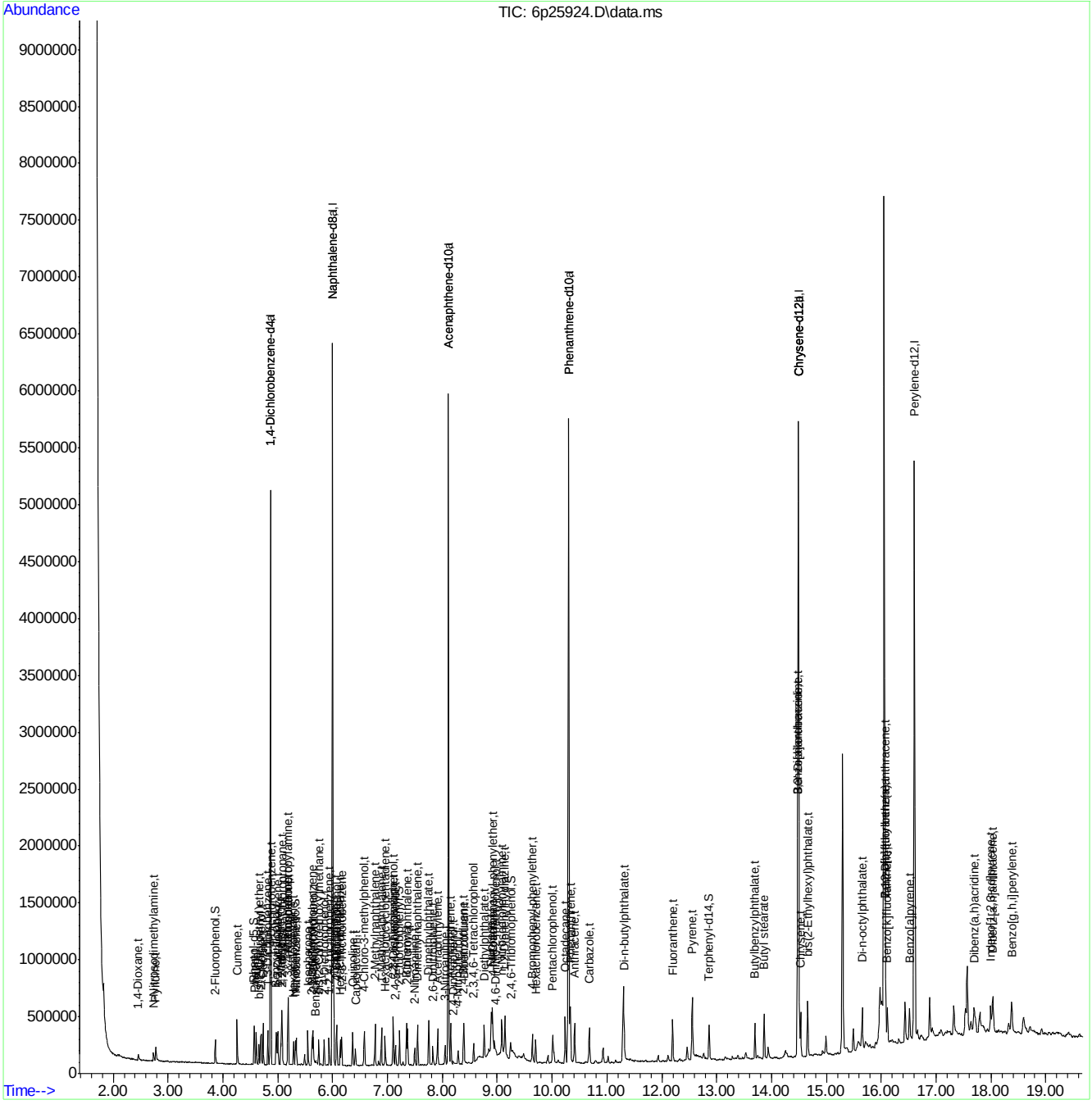
7

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25924.D
Acq On : 13 May 2016 9:24 am
Operator : ariellec
Sample : ic1209-2
Misc : op93693,e6p1209
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 13 09:55:31 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 09:48:02 2016
QLast Update : Fri May 13 09:52:10 2016
Response via : Initial Calibration



SGS ACCUTEST JC20098

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
05/16/16 18:39

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25925.D
Acq On : 13 May 2016 9:53 am
Operator : ariellec
Sample : ic1209-1
Misc : op93693,e6p1209
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 13 10:15:29 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 10:14:54 2016
QLast Update : Fri May 13 10:14:54 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.869	152	566988	40.00	ppm	0.00
24) Naphthalene-d8	5.997	136	2299226	40.00	ppm	0.00
47) Acenaphthene-d10	8.110	164	1288121	40.00	ppm	0.00
69) Phenanthrene-d10	10.303	188	2112725	40.00	ppm	0.00
83) Chrysene-d12	14.491	240	1996516	40.00	ppm	0.00
92) Perylene-d12	16.604	264	1980514	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.869	152	566988	40.00	ppm	0.00
104) Acenaphthene-d10a	8.110	164	1288121	40.00	ppm	0.00
106) Phenanthrene-d10a	10.303	188	2112725	40.00	ppm	0.00
110) Chrysene-d12a	14.491	240	1996516	40.00	ppm	0.00
112) Naphthalene-d8a	5.997	136	2299226	40.00	ppm	0.00
114) Chrysene-d12b	14.491	240	1996516	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.858	112	23612	1.02	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.04%	
8) Phenol-d5	4.564	99	30351	1.02	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.04%	
25) Nitrobenzene-d5	5.323	82	27240	0.98	ppm	0.00
Spiked Amount 50.000			Recovery	=	1.96%	
51) 2-Fluorobiphenyl	7.217	172	46914	1.06	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.12%	
73) 2,4,6-Tribromophenol	9.239	330	4802	0.83	ppm	0.00
Spiked Amount 50.000			Recovery	=	1.66%	
85) Terphenyl-d14	12.860	244	43011	0.96	ppm	0.00
Spiked Amount 50.000			Recovery	=	1.92%	
108) o-Terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
109) 1-Chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.456	88	13113	1.22	ppm	89
3) Pyridine	2.777	79	26230	0.98	ppm	98
4) N-Nitrosodimethylamine	2.740	74	14932	0.87	ppm	94
6) Indene	5.072	116	43180	1.05	ppm	97
7) Cumene	4.259	105	60667	1.02	ppm	98
9) Phenol	4.575	94	32281	1.02	ppm	94
10) Aniline	4.607	93	40537	1.05	ppm	88
11) bis(2-Chloroethyl)ether	4.655	93	23016	0.99	ppm	95
12) 2-Chlorophenol	4.698	128	24100	1.05	ppm	94
13) Decane	4.730	43	33816	1.06	ppm	85
14) 1,3-Dichlorobenzene	4.821	146	25190	1.02	ppm	85
15) 1,4-Dichlorobenzene	4.879	146	26070	1.05	ppm	97
16) Benzyl alcohol	4.970	108	16314	1.04	ppm	93
17) 1,2-Dichlorobenzene	5.002	146	26380	1.09	ppm	95
18) Acetophenone	5.190	105	35296	1.01	ppm	83
19) 2-Methylphenol	5.056	108	23812	1.09	ppm	91
20) 2,2'-oxybis(1-Chloropr...	5.083	121	8812	1.04	ppm #	59

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25925.D
Acq On : 13 May 2016 9:53 am
Operator : ariellec
Sample : ic1209-1
Misc : op93693,e6p1209
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 13 10:15:29 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 10:14:54 2016
QLast Update : Fri May 13 10:14:54 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
21) 3&4-Methylphenol	5.179	108	24391	1.02	ppm		94
22) n-Nitroso-di-n-propyla...	5.184	70	21486	1.02	ppm		88
23) Hexachloroethane	5.286	201	7641	1.06	ppm	#	76
26) Nitrobenzene	5.339	77	28794	0.99	ppm		89
27) Quinoline	6.366	129	47233	1.04	ppm		97
28) Isophorone	5.548	82	52172	1.07	ppm		94
29) 2-Nitrophenol	5.623	139	12317	1.05	ppm		90
30) 2,4-Dimethylphenol	5.650	107	22550	1.07	ppm		97
31) Benzoic acid	5.682	105	7614	0.93	ppm	#	61
32) bis(2-Chloroethoxy)met...	5.746	93	28978	1.01	ppm		98
33) 2,4-Dichlorophenol	5.848	162	18300	1.06	ppm		97
34) 2,6-Dichlorophenol	6.072	162	17149	1.00	ppm		99
35) 1,3,5-Trichlorobenzene	5.634	180	19936	0.99	ppm		96
36) 1,2,4-Trichlorobenzene	5.933	180	19329	1.07	ppm		91
37) 1,2,3-Trichlorobenzene	6.163	180	18563	1.02	ppm		98
38) Naphthalene	6.019	128	74428	1.04	ppm		95
39) 4-Chloroaniline	6.067	127	30616	1.06	ppm		92
40) 2,3-Dichloroaniline	7.110	161	23004	1.06	ppm		98
41) Caprolactam	6.409	55	12359	1.13	ppm		84
42) Hexachlorobutadiene	6.142	225	9482	1.00	ppm		95
43) 4-Chloro-3-methylphenol	6.575	107	21610	0.99	ppm		96
44) 2-Methylnaphthalene	6.773	141	37153	0.96	ppm		97
45) 1-Methylnaphthalene	6.885	141	39458	1.04	ppm		99
46) Dimethylnaphthalene	7.548	156	39345	1.00	ppm		96
48) Hexachlorocyclopentadiene	6.955	237	16791	2.05	ppm		97
49) 2,4,6-Trichlorophenol	7.104	196	10580	0.98	ppm		93
50) 2,4,5-Trichlorophenol	7.147	196	11991	1.03	ppm		83
52) 2-Chloronaphthalene	7.367	162	41372	1.04	ppm		98
53) Biphenyl	7.345	154	55575	1.04	ppm		97
54) 2-Nitroaniline	7.495	65	11894	0.89	ppm		95
55) Dimethylphthalate	7.752	163	48709	1.07	ppm		99
56) Acenaphthylene	7.912	152	64788	0.98	ppm		96
57) 2,6-Dinitrotoluene	7.827	165	7787	1.00	ppm		97
58) 3-Nitroaniline	8.051	138	10486	0.97	ppm		98
59) Acenaphthene	8.153	153	43718	1.02	ppm		98
60) 2,4-Dinitrophenol	8.196	184	1182	1.13	ppm	#	89
61) 4-Nitrophenol	8.287	109	5934	0.90	ppm		91
62) Dibenzofuran	8.393	168	59023	1.02	ppm		95
63) 2,4-Dinitrotoluene	8.383	165	9381	0.80	ppm		85
64) 2,3,4,6-Tetrachlorophenol	8.570	232	7761	0.89	ppm		88
65) Diethylphthalate	8.763	149	46699	0.96	ppm		94
66) Fluorene	8.891	166	45220	0.92	ppm		98
67) 4-Chlorophenyl-phenyle...	8.912	204	21220	0.95	ppm		94
68) 4-Nitroaniline	8.918	138	11515	0.87	ppm		83
70) 4,6-Dinitro-2-methylph...	8.966	198	1815	0.88	ppm	#	42
71) n-Nitrosodiphenylamine	9.083	169	31641	1.03	ppm		96
72) 1,2-Diphenylhydrazine	9.142	77	54879	0.96	ppm		95
74) 4-Bromophenyl-phenylether	9.640	248	11231	0.96	ppm		92
75) Hexachlorobenzene	9.699	284	12886	1.09	ppm		88
76) Pentachlorophenol	10.009	266	9638	1.41	ppm		89

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25925.D
Acq On : 13 May 2016 9:53 am
Operator : ariellec
Sample : ic1209-1
Misc : op93693,e6p1209
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 13 10:15:29 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 10:14:54 2016
QLast Update : Fri May 13 10:14:54 2016
Response via : Initial Calibration

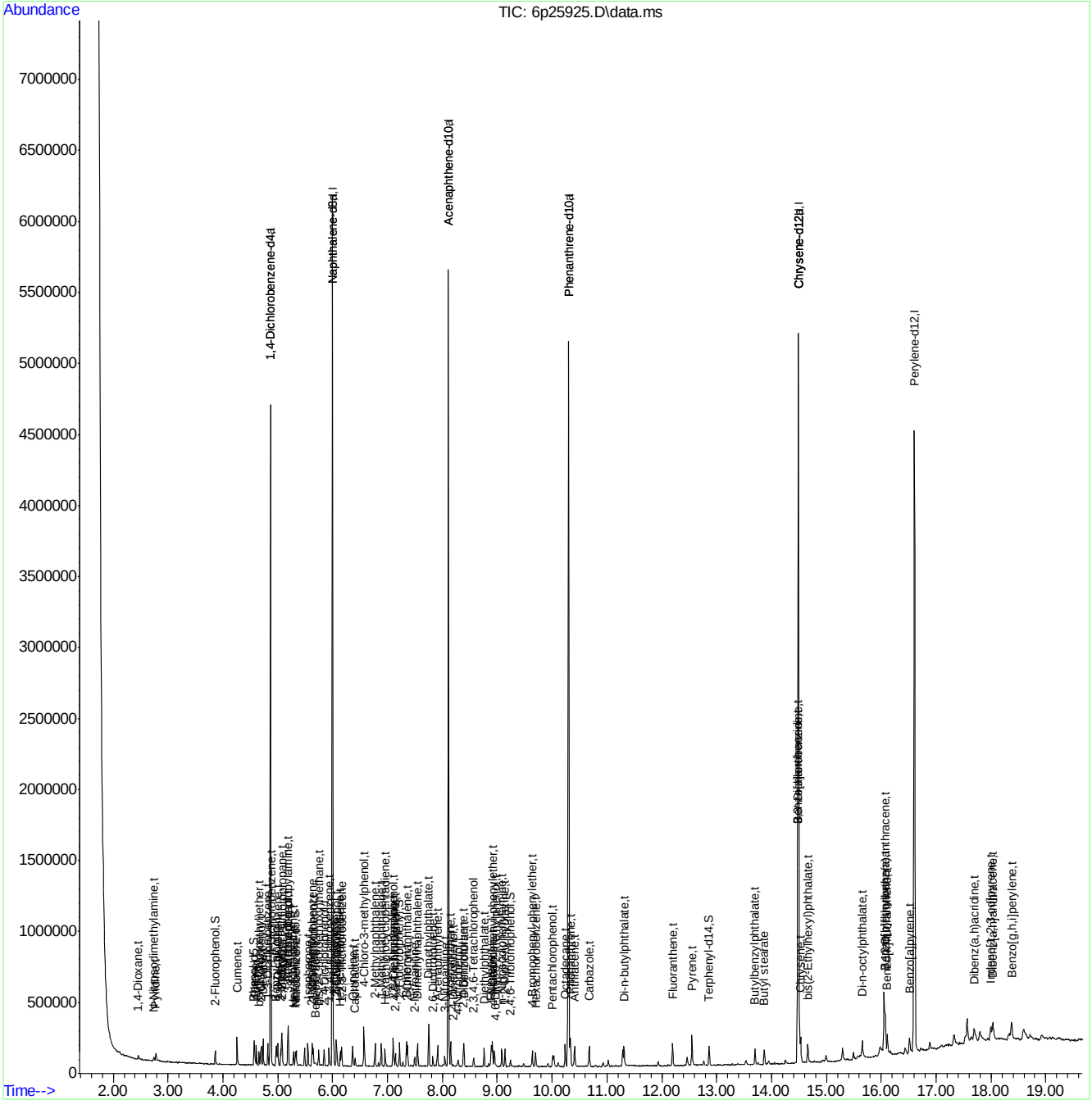
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
77) Phenanthrene	10.335	178	68702	1.03 ppm	98
78) Anthracene	10.410	178	63105	0.92 ppm	97
79) Carbazole	10.677	167	61801	0.99 ppm	97
80) Di-n-butylphthalate	11.308	149	72215	0.89 ppm	100
81) Fluoranthene	12.196	202	71208	0.98 ppm	88
82) Octadecane	10.239	57	29902	0.84 ppm	90
84) Pyrene	12.549	202	73794	1.00 ppm	97
86) Butylbenzylphthalate	13.699	149	28786	0.80 ppm	94
87) Butyl stearate	13.865	56	18703	0.71 ppm	89
88) Benzo[a]anthracene	14.475	228	68463	1.01 ppm	99
89) 3,3'-Dichlorobenzidine	14.475	252	20159	0.88 ppm	90
90) Chrysene	14.528	228	63469	1.01 ppm	98
91) bis(2-Ethylhexyl)phtha...	14.657	149	42023	0.70 ppm	93
93) Di-n-octylphthalate	15.652	149	67141	0.79 ppm	93
94) Benzo[b]fluoranthene	16.074	252	68557	1.02 ppm	77
95) Benzo[k]fluoranthene	16.112	252	67315	1.00 ppm	91
96) Benzo[a]pyrene	16.518	252	56778	0.96 ppm	95
97) Indeno[1,2,3-cd]pyrene	17.994	276	58756m	1.00 ppm	
98) Dibenz(a,h)acridine	17.695	279	50583	0.91 ppm	96
99) Dibenz[a,h]anthracene	18.037	278	59927	0.91 ppm	95
100) 7,12-Dimethylbenz(a)an...	16.074	256	25262	0.96 ppm	98
101) Benzo[g,h,i]perylene	18.374	276	61962	0.98 ppm	81

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25925.D
Acq On : 13 May 2016 9:53 am
Operator : ariellec
Sample : ic1209-1
Misc : op93693,e6p1209
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 13 10:15:29 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 10:14:54 2016
QLast Update : Fri May 13 10:14:54 2016
Response via : Initial Calibration



Manual Integration Approval Summary

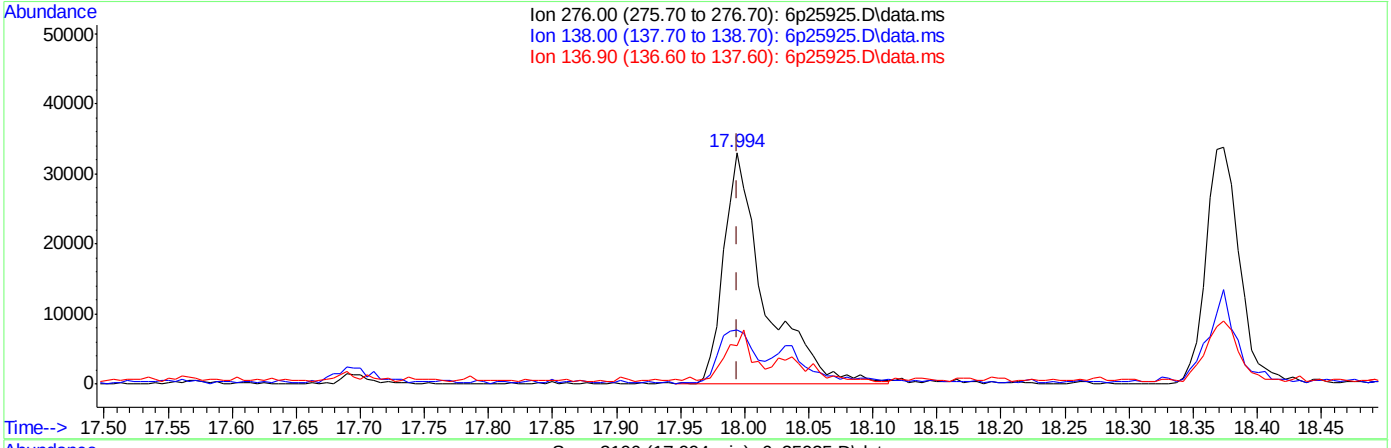
Sample Number:	E6P1209-IC1209	**Method:**	SW846 8270D
Lab FileID:	6P25925.D	**Analyst approved:**	05/16/16 09:29 Arielle Cocozza
Injection Time:	05/13/16 09:53	**Supervisor approved:**	05/16/16 18:39 Nina Pandya

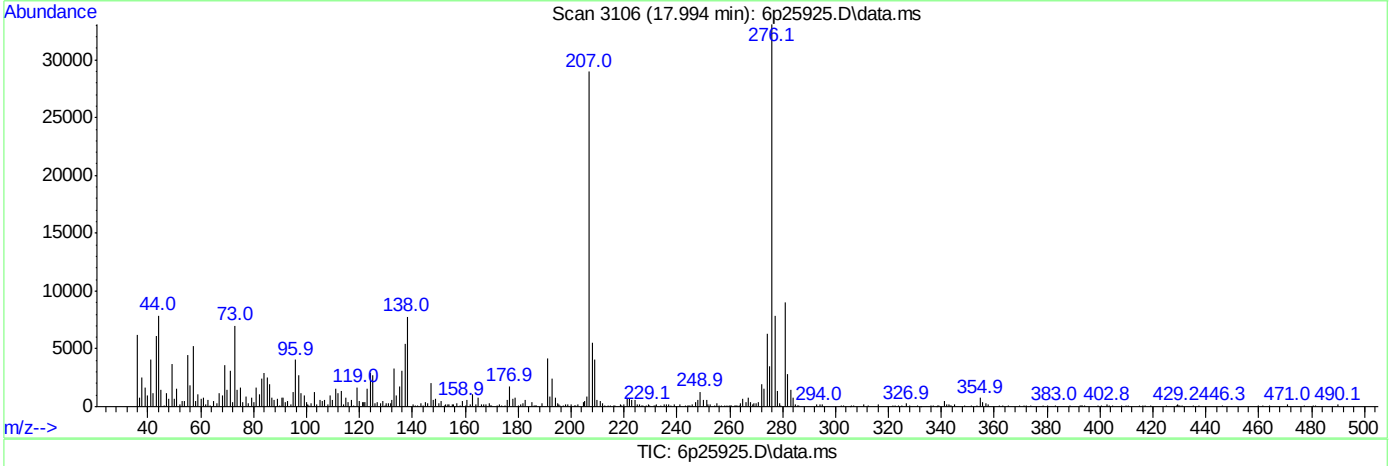
Parameter	CAS	Sig#	R.T. (min.)	Reason
Indeno(1,2,3-cd)pyrene	193-39-5		17.99	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25925.D
Acq On : 13 May 2016 9:53 am
Operator : ariellec
Sample : ic1209-1
Misc : op93693,e6p1209
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 13 10:15:03 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 10:14:54 2016
QLast Update : Fri May 13 10:14:54 2016
Response via : Initial Calibration





TIC: 6p25925.D\data.ms

(97) Indeno[1,2,3-cd]pyrene (t)

17.994min (-0.000) 1.26ppm

response 73871

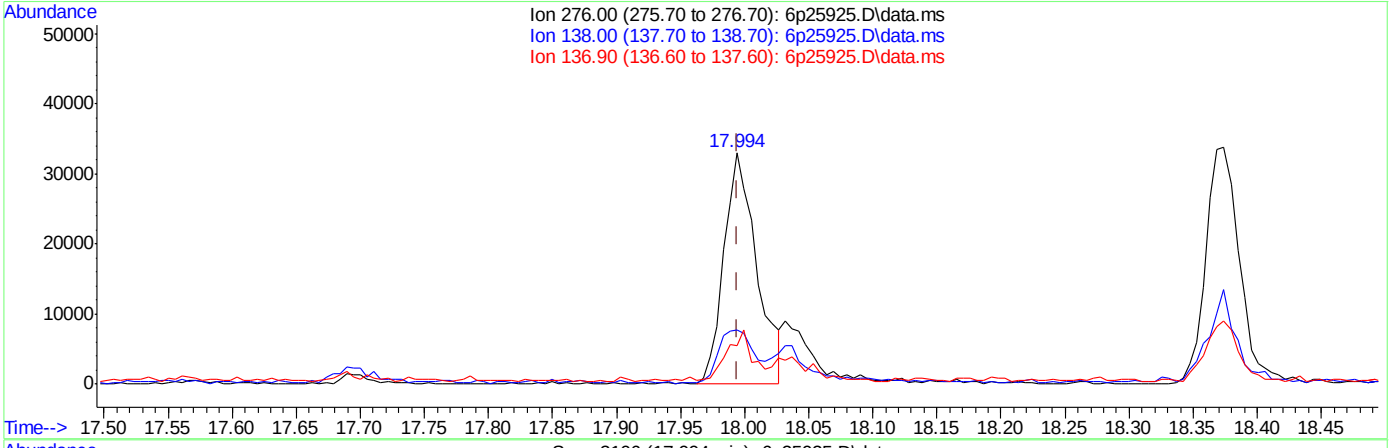
Ion	Exp%	Act%
276.00	100	100
138.00	20.00	22.73
136.90	14.60	14.95
0.00	0.00	0.00

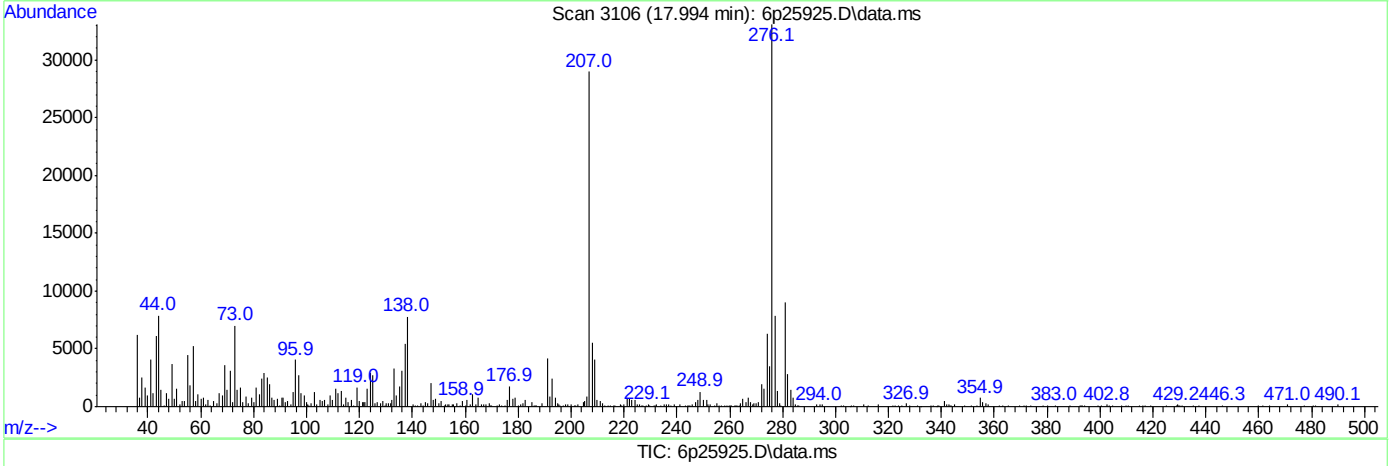
SGS ACCUTEST JC20098

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25925.D
Acq On : 13 May 2016 9:53 am
Operator : ariellec
Sample : ic1209-1
Misc : op93693,e6p1209
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 13 10:15:03 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 10:14:54 2016
QLast Update : Fri May 13 10:14:54 2016
Response via : Initial Calibration





TIC: 6p25925.D\data.ms

(97) Indeno[1,2,3-cd]pyrene (t)

17.994min (-0.000) 1.00ppm m

response 58756

Ion	Exp%	Act%
276.00	100	100
138.00	20.00	23.53
136.90	14.60	16.57
0.00	0.00	0.00

SGS ACCUTEST JC20098

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
05/16/16 18:39

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25926.D
Acq On : 13 May 2016 10:20 am
Operator : ariellec
Sample : ic1209-100
Misc : op93693,e6p1209
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 16 17:13:11 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 10:17:05 2016
QLast Update : Fri May 13 10:17:05 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.869	152	566562	40.00	ppm	0.00
24) Naphthalene-d8	6.003	136	2464993	40.00	ppm	0.00
47) Acenaphthene-d10	8.115	164	1389288	40.00	ppm	0.00
69) Phenanthrene-d10	10.308	188	2293395	40.00	ppm	0.00
83) Chrysene-d12	14.507	240	2196112	40.00	ppm	0.02
92) Perylene-d12	16.614	264	2189435	40.00	ppm	0.01
102) 1,4-Dichlorobenzene-d4a	4.869	152	566562	40.00	ppm	0.00
104) Acenaphthene-d10a	8.115	164	1389288	40.00	ppm	0.00
106) Phenanthrene-d10a	10.308	188	2293395	40.00	ppm	0.00
110) Chrysene-d12a	14.507	240	2196112	40.00	ppm	0.02
112) Naphthalene-d8a	6.003	136	2464993	40.00	ppm	0.00
114) Chrysene-d12b	14.507	240	2196112	40.00	ppm	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	3.869	112	2055112	87.92	ppm	0.01
Spiked Amount 50.000			Recovery	=	175.84%	
8) Phenol-d5	4.585	99	2653723	88.20	ppm	0.02
Spiked Amount 50.000			Recovery	=	176.40%	
25) Nitrobenzene-d5	5.334	82	2535724	86.13	ppm	0.01
Spiked Amount 50.000			Recovery	=	172.26%	
51) 2-Fluorobiphenyl	7.227	172	4040920	82.13	ppm	0.01
Spiked Amount 50.000			Recovery	=	164.26%	
73) 2,4,6-Tribromophenol	9.260	330	595893	103.40	ppm	0.02
Spiked Amount 50.000			Recovery	=	206.80%	
85) Terphenyl-d14	12.876	244	4344858	89.81	ppm	0.02
Spiked Amount 50.000			Recovery	=	179.62%	
108) o-Terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
109) 1-Chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.451	88	920952	77.28	ppm	94
3) Pyridine	2.767	79	2513573	95.09	ppm	97
4) N-Nitrosodimethylamine	2.740	74	1495679	93.41	ppm	93
6) Indene	5.077	116	3377110	80.21	ppm	99
7) Cumene	4.264	105	4858938	81.03	ppm	98
9) Phenol	4.596	94	2970379	92.89	ppm	95
10) Aniline	4.617	93	3003568	75.96	ppm	94
11) bis(2-Chloroethyl)ether	4.671	93	2003274	86.71	ppm	97
12) 2-Chlorophenol	4.708	128	2057219	87.34	ppm	98
13) Decane	4.735	43	2381054	72.47	ppm	94
14) 1,3-Dichlorobenzene	4.826	146	2107873	84.53	ppm	100
15) 1,4-Dichlorobenzene	4.885	146	2102027	82.74	ppm	100
16) Benzyl alcohol	4.986	108	1409362	87.98	ppm	98
17) 1,2-Dichlorobenzene	5.008	146	1961025	77.59	ppm	99
18) Acetophenone	5.206	105	2762687	78.56	ppm	92
19) 2-Methylphenol	5.067	108	1923445	84.25	ppm	98
20) 2,2'-oxybis(1-Chloropr...	5.088	121	695550	80.46	ppm	87

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25926.D
Acq On : 13 May 2016 10:20 am
Operator : ariellec
Sample : ic1209-100
Misc : op93693,e6p1209
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 16 17:13:11 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 10:17:05 2016
QLast Update : Fri May 13 10:17:05 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
21) 3&4-Methylphenol	5.200	108	2001359	82.96	ppm	99
22) n-Nitroso-di-n-propyla...	5.211	70	1709772	80.51	ppm	95
23) Hexachloroethane	5.291	201	650262	87.58	ppm	81
26) Nitrobenzene	5.355	77	2605539	83.90	ppm	96
27) Quinoline	6.398	129	4298531	86.64	ppm	98
28) Isophorone	5.569	82	4394329	81.18	ppm	97
29) 2-Nitrophenol	5.634	139	1111734	86.22	ppm	88
30) 2,4-Dimethylphenol	5.666	107	2206468	94.46	ppm	97
31) Benzoic acid	5.821	105	1733219m	204.55	ppm	
32) bis(2-Chloroethoxy)met...	5.762	93	2476313	80.14	ppm	99
33) 2,4-Dichlorophenol	5.864	162	1594589	83.50	ppm	99
34) 2,6-Dichlorophenol	6.088	162	1506023	81.97	ppm	97
35) 1,3,5-Trichlorobenzene	5.644	180	1626536	75.74	ppm	98
36) 1,2,4-Trichlorobenzene	5.944	180	1651385	82.25	ppm	98
37) 1,2,3-Trichlorobenzene	6.174	180	1602019	81.10	ppm	96
38) Naphthalene	6.029	128	6097154	77.79	ppm	99
39) 4-Chloroaniline	6.083	127	2479831	77.60	ppm	98
40) 2,3-Dichloroaniline	7.121	161	1909092	79.50	ppm	98
41) Caprolactam	6.505	55	1152286	92.44	ppm	92
42) Hexachlorobutadiene	6.147	225	833890	82.04	ppm	97
43) 4-Chloro-3-methylphenol	6.607	107	2028245	87.08	ppm	99
44) 2-Methylnaphthalene	6.784	141	3332034	81.90	ppm	99
45) 1-Methylnaphthalene	6.901	141	3444466	82.84	ppm	100
46) Dimethylnaphthalene	7.559	156	3572665	84.83	ppm	93
48) Hexachlorocyclopentadiene	6.965	237	2050625	229.31	ppm	97
49) 2,4,6-Trichlorophenol	7.121	196	1074781	93.37	ppm	94
50) 2,4,5-Trichlorophenol	7.169	196	1228129	96.22	ppm	94
52) 2-Chloronaphthalene	7.383	162	3566250	81.54	ppm	97
53) Biphenyl	7.361	154	4766799	81.03	ppm	97
54) 2-Nitroaniline	7.522	65	1518720	111.66	ppm	94
55) Dimethylphthalate	7.773	163	4234474	83.21	ppm	98
56) Acenaphthylene	7.928	152	6114692	86.57	ppm	99
57) 2,6-Dinitrotoluene	7.853	165	986019	117.12	ppm	95
58) 3-Nitroaniline	8.078	138	1218550	105.96	ppm	94
59) Acenaphthene	8.169	153	3827199	82.11	ppm	97
60) 2,4-Dinitrophenol	8.228	184	1154727	1305.44	ppm	87
61) 4-Nitrophenol	8.324	109	776958	114.78	ppm	98
62) Dibenzofuran	8.410	168	4923118	78.12	ppm	94
63) 2,4-Dinitrotoluene	8.410	165	1288662	112.93	ppm	92
64) 2,3,4,6-Tetrachlorophenol	8.586	232	910221	102.51	ppm	87
65) Diethylphthalate	8.789	149	4371387	85.07	ppm	96
66) Fluorene	8.907	166	4272512	84.00	ppm	97
67) 4-Chlorophenyl-phenyle...	8.923	204	1872127	79.90	ppm	93
68) 4-Nitroaniline	8.971	138	1232175	92.43	ppm	98
70) 4,6-Dinitro-2-methylph...	9.003	198	783077	373.12	ppm	89
71) n-Nitrosodiphenylamine	9.105	169	2992552	88.48	ppm	99
72) 1,2-Diphenylhydrazine	9.158	77	5322717	87.68	ppm	95
74) 4-Bromophenyl-phenylether	9.656	248	1072498	86.24	ppm	96
75) Hexachlorobenzene	9.715	284	1169322	87.36	ppm	90
76) Pentachlorophenol	10.030	266	1645587	259.82	ppm	95

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25926.D
Acq On : 13 May 2016 10:20 am
Operator : ariellec
Sample : ic1209-100
Misc : op93693,e6p1209
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 16 17:13:11 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 10:17:05 2016
QLast Update : Fri May 13 10:17:05 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
77) Phenanthrene	10.351	178	5997808	81.57 ppm	100
78) Anthracene	10.431	178	6123519	85.85 ppm	99
79) Carbazole	10.704	167	5729331	85.00 ppm	97
80) Di-n-butylphthalate	11.325	149	7426879	89.31 ppm	99
81) Fluoranthene	12.218	202	6560770	83.92 ppm	90
82) Octadecane	10.249	57	3184668	89.87 ppm	98
84) Pyrene	12.571	202	6793640	83.72 ppm	98
86) Butylbenzylphthalate	13.710	149	3395628	95.30 ppm	91
87) Butyl stearate	13.876	56	2381088	95.96 ppm	96
88) Benzo[a]anthracene	14.491	228	6049963	80.85 ppm	98
89) 3,3'-Dichlorobenzidine	14.496	252	2319652	97.77 ppm	97
90) Chrysene	14.555	228	5903756	85.08 ppm	99
91) bis(2-Ethylhexyl)phtha...	14.667	149	4709386	83.62 ppm	98
93) Di-n-octylphthalate	15.668	149	8095528	96.11 ppm	100
94) Benzo[b]fluoranthene	16.112	252	7105242	94.58 ppm	83
95) Benzo[k]fluoranthene	16.154	252	5669493m	76.09 ppm	
96) Benzo[a]pyrene	16.545	252	5799377	90.43 ppm	95
97) Indeno[1,2,3-cd]pyrene	18.042	276	6277338m	96.84 ppm	
98) Dibenz(a,h)acridine	17.727	279	5459192	92.78 ppm	99
99) Dibenz[a,h]anthracene	18.080	278	6330373	90.86 ppm	97
100) 7,12-Dimethylbenz(a)an...	16.112	256	2983377	104.66 ppm	96
101) Benzo[g,h,i]perylene	18.433	276	6102119	88.12 ppm	94

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

7.6.82

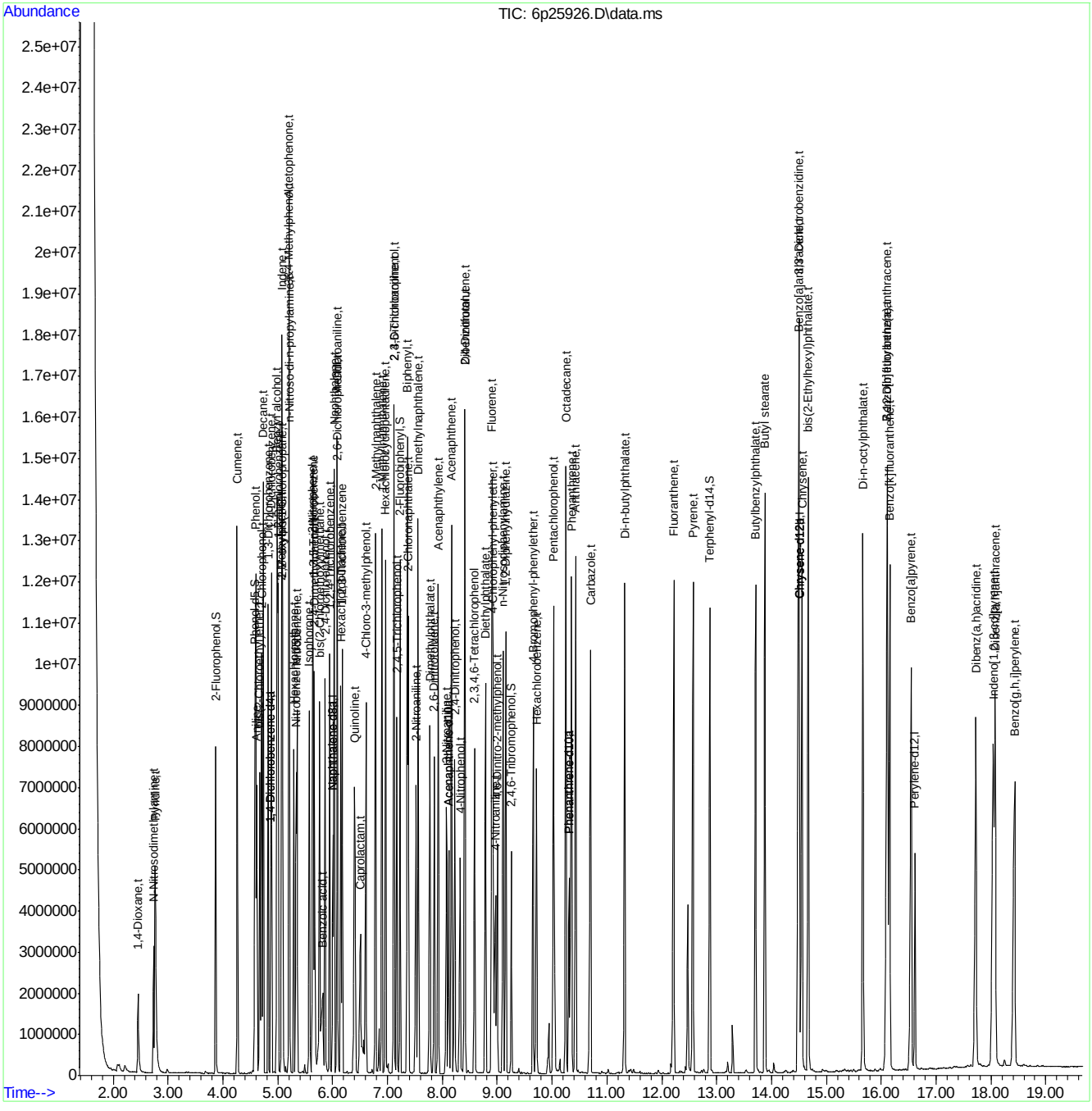
7

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25926.D
Acq On : 13 May 2016 10:20 am
Operator : ariellec
Sample : ic1209-100
Misc : op93693,e6p1209
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 16 17:13:11 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 10:17:05 2016
QLast Update : Fri May 13 10:17:05 2016
Response via : Initial Calibration



SGS ACCUTEST JC20098

Manual Integration Approval Summary

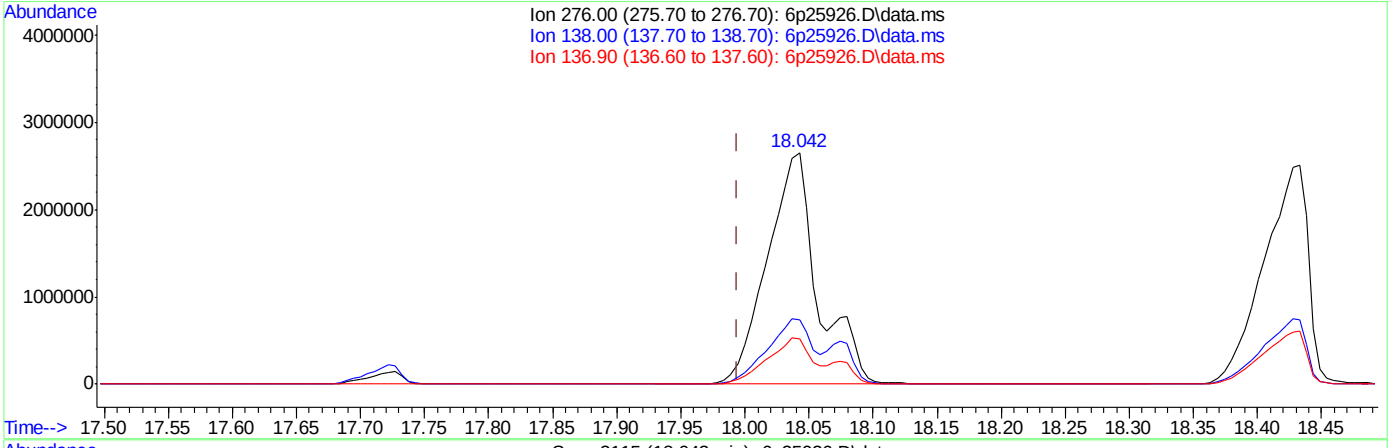
Sample Number:	E6P1209-IC1209	**Method:**	SW846 8270D
Lab FileID:	6P25926.D	**Analyst approved:**	05/16/16 18:09 Arielle Cocozza
Injection Time:	05/13/16 10:20	**Supervisor approved:**	05/16/16 18:39 Nina Pandya

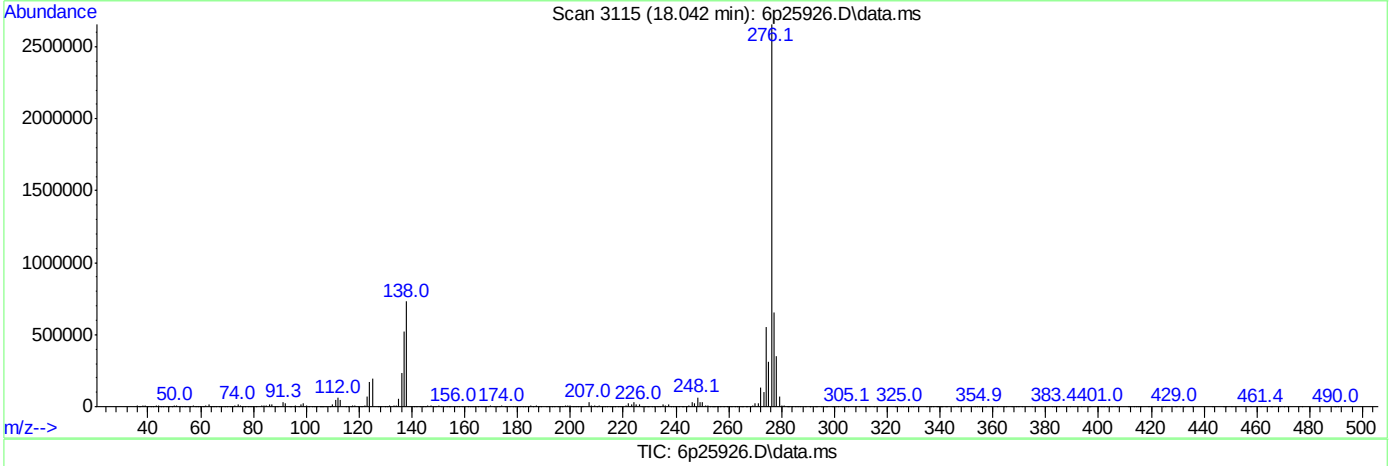
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic Acid	65-85-0		5.82	Split peak
Benzo(k)fluoranthene	207-08-9		16.15	Overlapping peak
Indeno(1,2,3-cd)pyrene	193-39-5		18.04	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25926.D
Acq On : 13 May 2016 10:20 am
Operator : ariellec
Sample : ic1209-100
Misc : op93693,e6p1209
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 13 10:40:26 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 10:17:05 2016
QLast Update : Fri May 13 10:17:05 2016
Response via : Initial Calibration





TIC: 6p25926.D\data.ms

(97) Indeno[1,2,3-cd]pyrene (t)

18.042min (+0.048) 112.85ppm

response 7315098

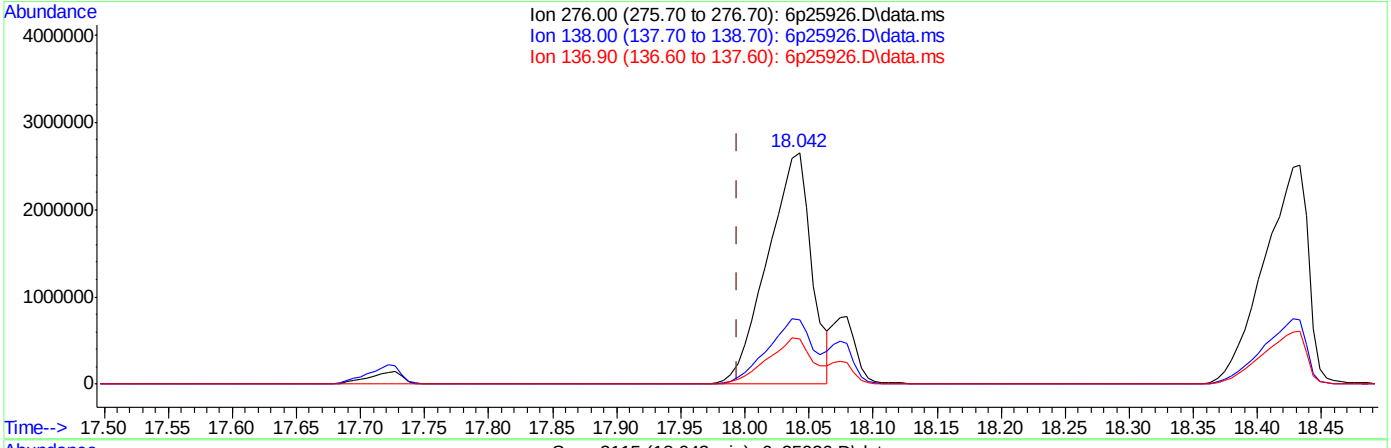
Ion	Exp%	Act%
276.00	100	100
138.00	20.00	27.53
136.90	14.60	19.51
0.00	0.00	0.00

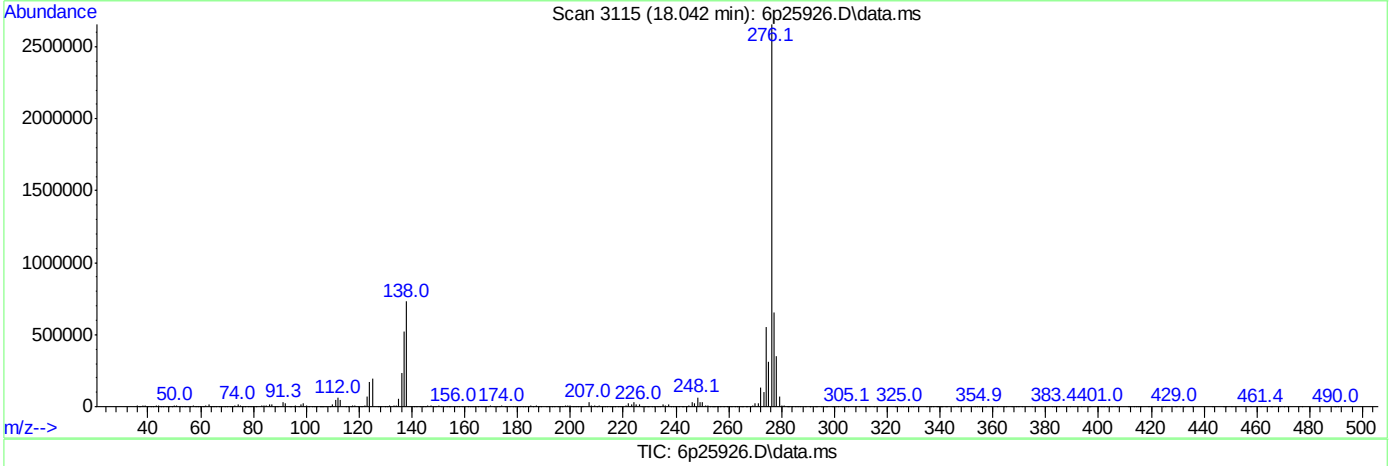
SGS ACCUTEST JC20098

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25926.D
Acq On : 13 May 2016 10:20 am
Operator : ariellec
Sample : ic1209-100
Misc : op93693,e6p1209
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 13 10:40:26 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 10:17:05 2016
QLast Update : Fri May 13 10:17:05 2016
Response via : Initial Calibration





TIC: 6p25926.D\data.ms

(97) Indeno[1,2,3-cd]pyrene (t)

18.042min (+0.048) 96.84ppm m

response 6277338

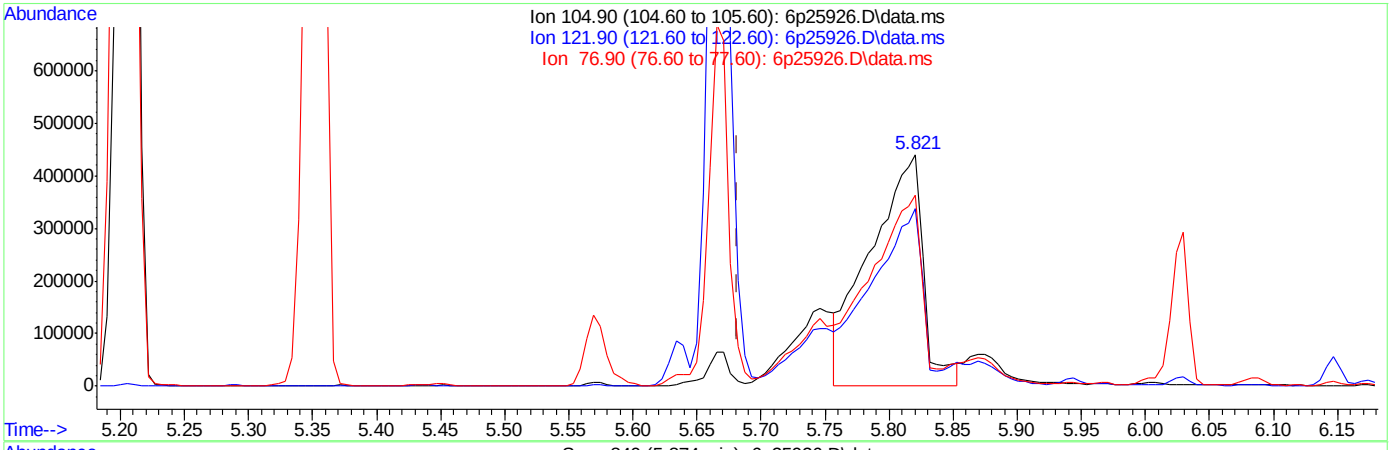
Ion	Exp%	Act%
276.00	100	100
138.00	20.00	27.55
136.90	14.60	19.52
0.00	0.00	0.00

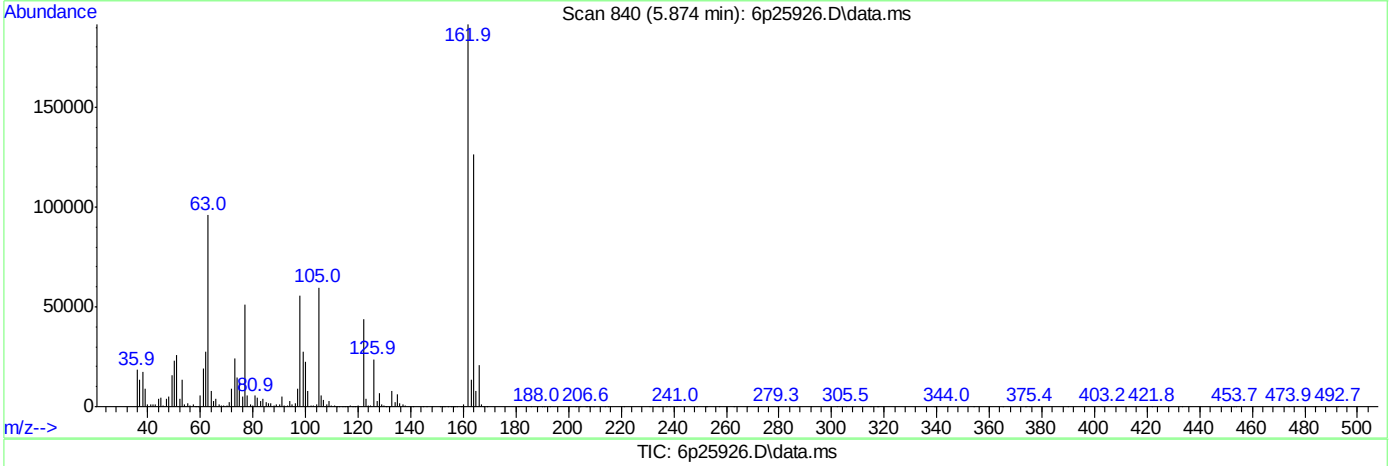
SGS ACCUTEST JC20098

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25926.D
Acq On : 13 May 2016 10:20 am
Operator : ariellec
Sample : ic1209-100
Misc : op93693,e6p1209
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 13 10:40:26 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 10:17:05 2016
QLast Update : Fri May 13 10:17:05 2016
Response via : Initial Calibration





TIC: 6p25926.D\data.ms

(31) Benzoic acid (t)

5.821min (+0.139) 150.13ppm

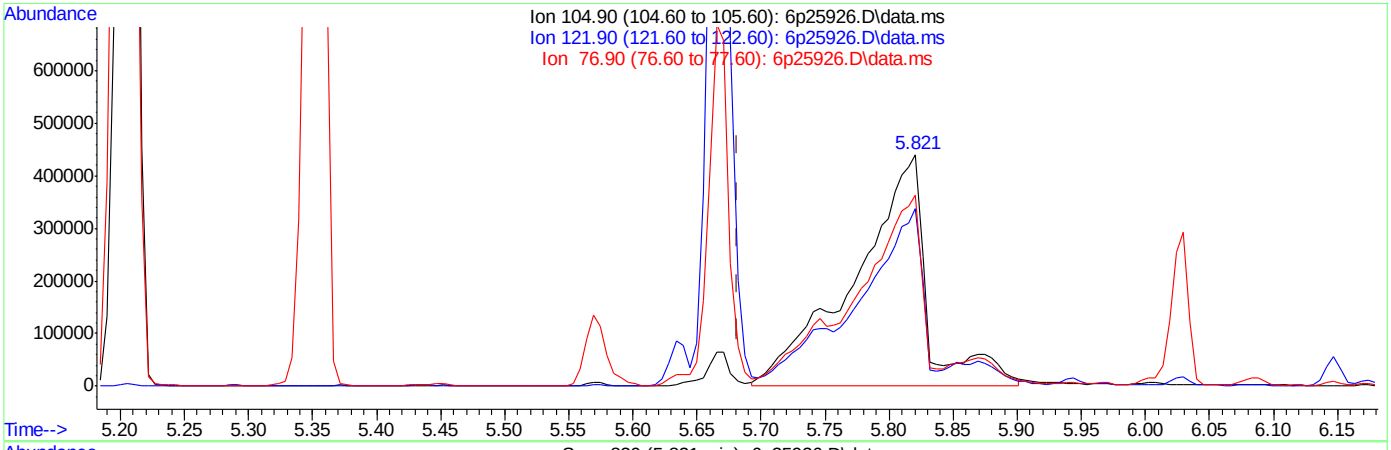
response 1272090

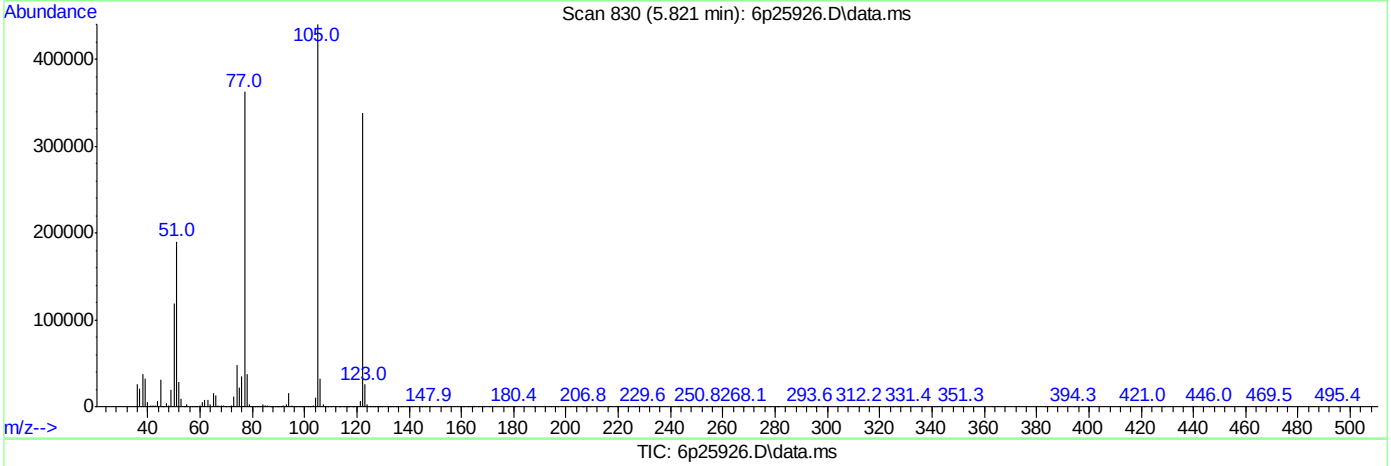
Ion	Exp%	Act%
104.90	100	100
121.90	71.70	75.31
76.90	84.30	81.16
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25926.D
Acq On : 13 May 2016 10:20 am
Operator : ariellec
Sample : ic1209-100
Misc : op93693,e6p1209
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 13 10:40:26 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 10:17:05 2016
QLast Update : Fri May 13 10:17:05 2016
Response via : Initial Calibration





TIC: 6p25926.D\data.ms

(31) Benzoic acid (t)

5.821min (+0.139) 204.55ppm m

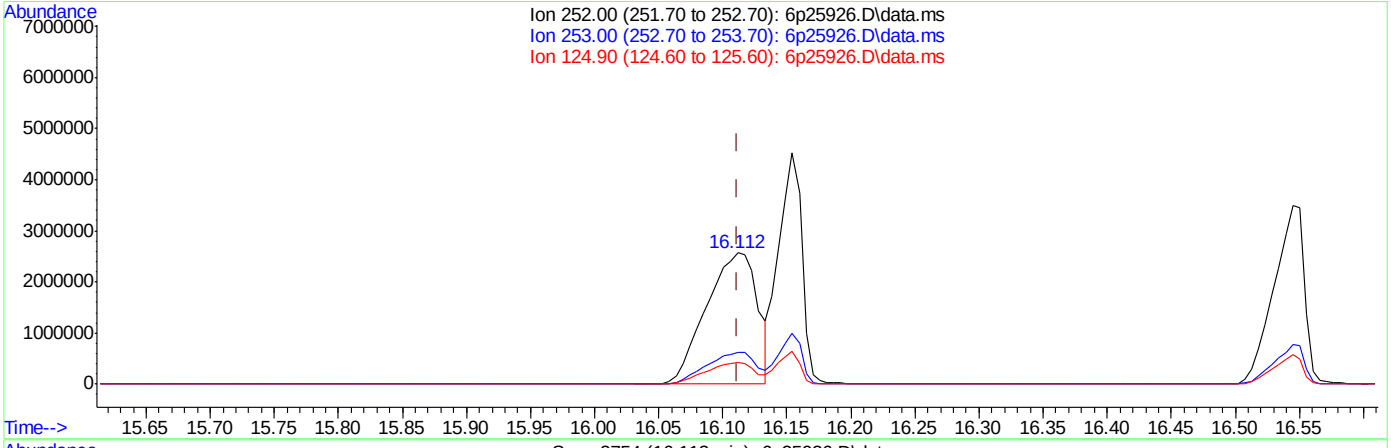
response 1733219

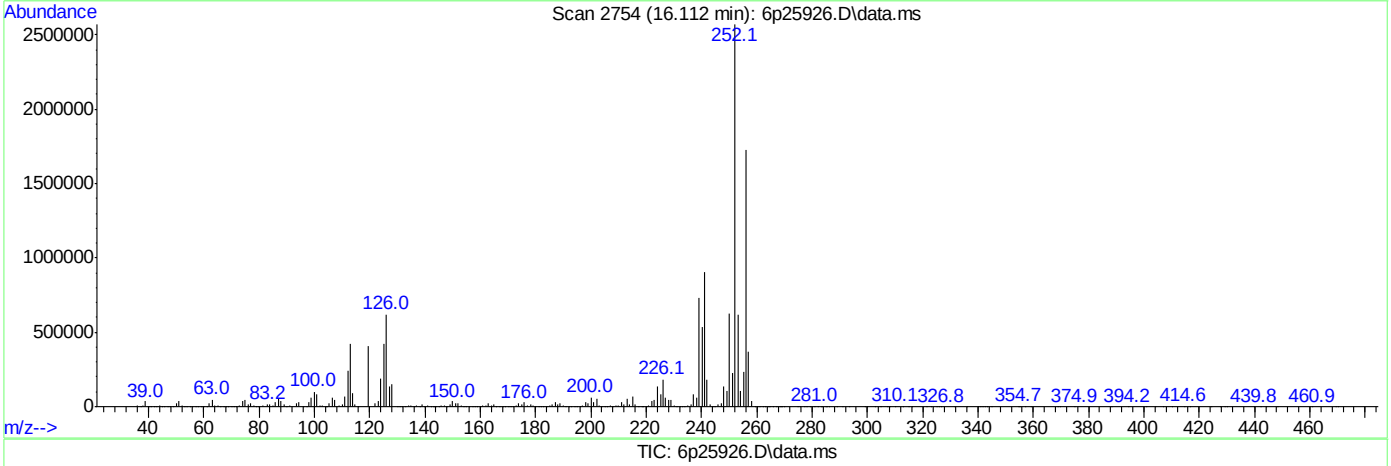
Ion	Exp%	Act%
104.90	100	100
121.90	71.70	76.70
76.90	84.30	82.29
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25926.D
Acq On : 13 May 2016 10:20 am
Operator : ariellec
Sample : ic1209-100
Misc : op93693,e6p1209
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 13 12:06:16 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 10:17:05 2016
QLast Update : Fri May 13 10:17:05 2016
Response via : Initial Calibration





TIC: 6p25926.D\data.ms

(95) Benzo[k]fluoranthene (t)

16.112min (0.000) 95.35ppm

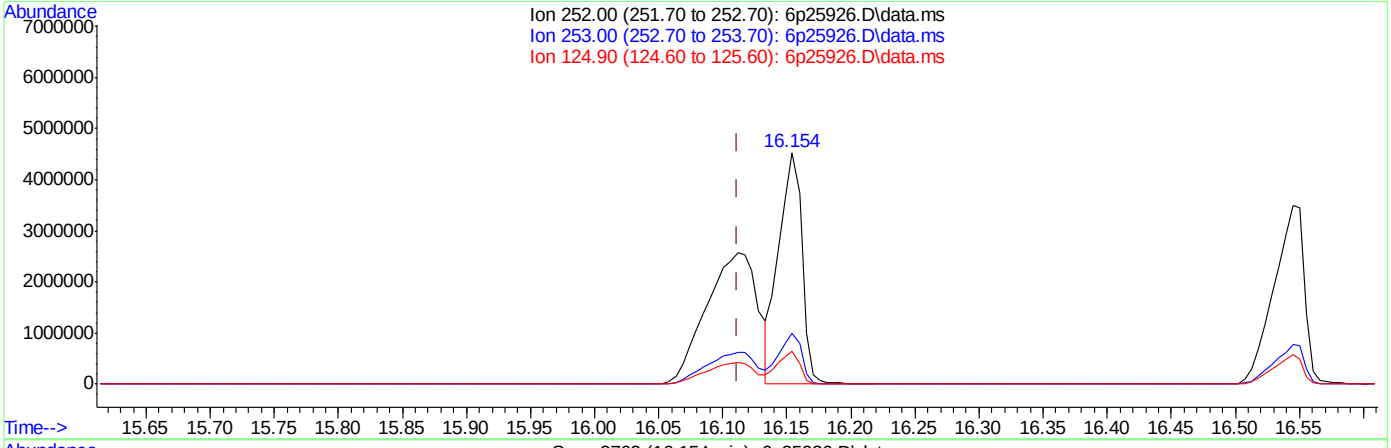
response 7105242

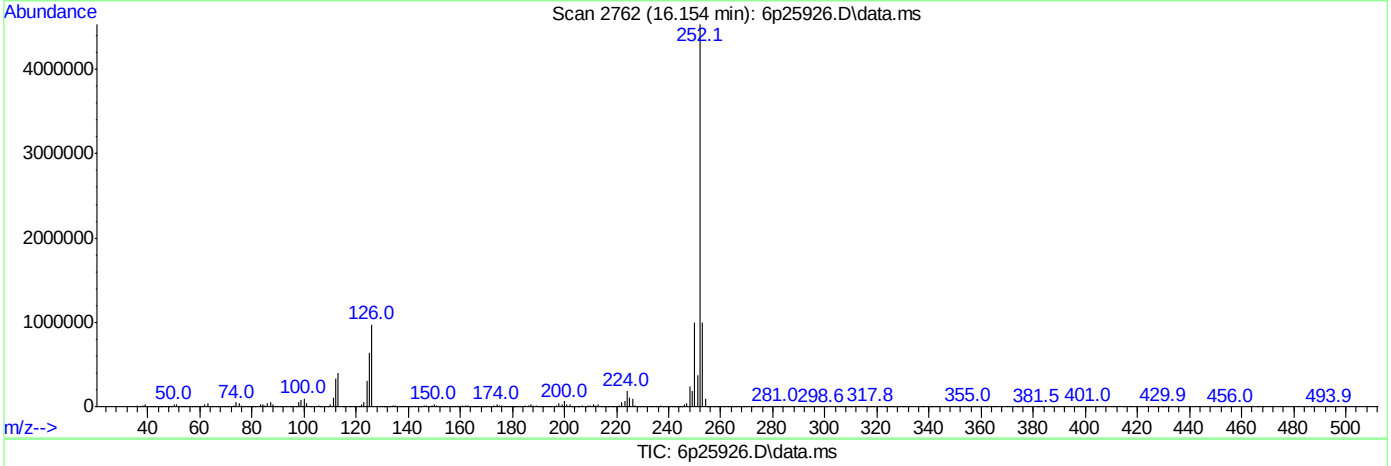
Ion	Exp%	Act%
252.00	100	100
253.00	25.30	24.79
124.90	10.90	16.83
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25926.D
Acq On : 13 May 2016 10:20 am
Operator : ariellec
Sample : ic1209-100
Misc : op93693,e6p1209
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 13 12:06:16 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 10:17:05 2016
QLast Update : Fri May 13 10:17:05 2016
Response via : Initial Calibration





TIC: 6p25926.D\data.ms

(95) Benzo[k]fluoranthene (t)

16.154min (+0.043) 76.09ppm m

response 5669493

Ion	Exp%	Act%
252.00	100	100
253.00	25.30	21.90
124.90	10.90	13.98
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
05/16/16 18:39

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25927.D
Acq On : 13 May 2016 10:47 am
Operator : ariellec
Sample : ic1209-80
Misc : op93693,e6p1209
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 13 11:11:08 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 11:10:43 2016
QLast Update : Fri May 13 11:10:43 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.869	152	559226	40.00	ppm	0.00
24) Naphthalene-d8	6.003	136	2365386	40.00	ppm	0.00
47) Acenaphthene-d10	8.115	164	1288267	40.00	ppm	0.00
69) Phenanthrene-d10	10.308	188	2102107	40.00	ppm	0.00
83) Chrysene-d12	14.507	240	1953631	40.00	ppm	0.00
92) Perylene-d12	16.609	264	1887534	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.869	152	559226	40.00	ppm	0.00
104) Acenaphthene-d10a	8.115	164	1288267	40.00	ppm	0.00
106) Phenanthrene-d10a	10.308	188	2102107	40.00	ppm	0.00
110) Chrysene-d12a	14.507	240	1953631	40.00	ppm	0.00
112) Naphthalene-d8a	6.003	136	2365386	40.00	ppm	0.00
114) Chrysene-d12b	14.507	240	1953631	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.863	112	1610017	72.71	ppm	0.00
Spiked Amount 50.000			Recovery	=	145.42%	
8) Phenol-d5	4.580	99	2087471	73.17	ppm	0.00
Spiked Amount 50.000			Recovery	=	146.34%	
25) Nitrobenzene-d5	5.334	82	1984075	73.64	ppm	0.00
Spiked Amount 50.000			Recovery	=	147.28%	
51) 2-Fluorobiphenyl	7.227	172	3181245	74.15	ppm	0.00
Spiked Amount 50.000			Recovery	=	148.30%	
73) 2,4,6-Tribromophenol	9.255	330	440018	82.37	ppm	0.00
Spiked Amount 50.000			Recovery	=	164.74%	
85) Terphenyl-d14	12.870	244	3260083	78.41	ppm	0.00
Spiked Amount 50.000			Recovery	=	156.82%	
108) o-Terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
109) 1-Chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.456	88	731499	67.28	ppm	98
3) Pyridine	2.767	79	1954479	76.16	ppm	97
4) N-Nitrosodimethylamine	2.740	74	1172642	75.87	ppm	93
6) Indene	5.077	116	2753572	70.94	ppm	98
7) Cumene	4.264	105	3953821	71.31	ppm	98
9) Phenol	4.596	94	2361851	76.65	ppm	91
10) Aniline	4.617	93	2395083	66.71	ppm	93
11) bis(2-Chloroethyl)ether	4.665	93	1582952	72.63	ppm	98
12) 2-Chlorophenol	4.708	128	1634927	73.42	ppm	98
13) Decane	4.735	43	1940425	65.88	ppm	95
14) 1,3-Dichlorobenzene	4.826	146	1673133	71.67	ppm	98
15) 1,4-Dichlorobenzene	4.885	146	1681831	71.16	ppm	99
16) Benzyl alcohol	4.981	108	1110368	73.15	ppm	98
17) 1,2-Dichlorobenzene	5.008	146	1568321	67.94	ppm	98
18) Acetophenone	5.206	105	2234446	69.33	ppm	82
19) 2-Methylphenol	5.067	108	1538477	72.06	ppm	99
20) 2,2'-oxybis(1-Chloropr...	5.088	121	550875	69.06	ppm #	89

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25927.D
Acq On : 13 May 2016 10:47 am
Operator : ariellec
Sample : ic1209-80
Misc : op93693,e6p1209
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 13 11:11:08 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 11:10:43 2016
QLast Update : Fri May 13 11:10:43 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
21) 3&4-Methylphenol	5.195	108	1619601	72.11	ppm	100
22) n-Nitroso-di-n-propyla...	5.206	70	1341742	68.46	ppm	93
23) Hexachloroethane	5.291	201	517748	73.70	ppm	84
26) Nitrobenzene	5.350	77	2041426	72.39	ppm	97
27) Quinoline	6.393	129	3293253	72.40	ppm	98
28) Isophorone	5.564	82	3387786	69.59	ppm	96
29) 2-Nitrophenol	5.634	139	875721	74.18	ppm	87
30) 2,4-Dimethylphenol	5.666	107	1721096	78.23	ppm	99
31) Benzoic acid	5.799	105	1246984	113.73	ppm	97
32) bis(2-Chloroethoxy)met...	5.757	93	1929425	69.68	ppm	99
33) 2,4-Dichlorophenol	5.858	162	1252494	72.33	ppm	99
34) 2,6-Dichlorophenol	6.088	162	1179474	71.18	ppm	98
35) 1,3,5-Trichlorobenzene	5.639	180	1300140	68.64	ppm	97
36) 1,2,4-Trichlorobenzene	5.944	180	1295655	71.48	ppm	97
37) 1,2,3-Trichlorobenzene	6.174	180	1274980	71.79	ppm	97
38) Naphthalene	6.024	128	4860405	69.79	ppm	99
39) 4-Chloroaniline	6.077	127	1972464	69.51	ppm	98
40) 2,3-Dichloroaniline	7.115	161	1487554	69.29	ppm	100
41) Caprolactam	6.495	55	846671	72.61	ppm	94
42) Hexachlorobutadiene	6.147	225	665255	72.55	ppm	97
43) 4-Chloro-3-methylphenol	6.602	107	1559507	72.91	ppm	99
44) 2-Methylnaphthalene	6.778	141	2613871	71.25	ppm	99
45) 1-Methylnaphthalene	6.896	141	2693717	71.61	ppm	98
46) Dimethylnaphthalene	7.559	156	2762155	71.99	ppm	95
48) Hexachlorocyclopentadiene	6.960	237	1543653	177.48	ppm	97
49) 2,4,6-Trichlorophenol	7.120	196	833265	79.83	ppm	95
50) 2,4,5-Trichlorophenol	7.163	196	921562	78.86	ppm	95
52) 2-Chloronaphthalene	7.377	162	2782772	73.11	ppm	96
53) Biphenyl	7.356	154	3712840	72.66	ppm	98
54) 2-Nitroaniline	7.516	65	1139964	87.00	ppm	93
55) Dimethylphthalate	7.773	163	3250622	72.97	ppm	99
56) Acenaphthylene	7.923	152	4739286	75.75	ppm	99
57) 2,6-Dinitrotoluene	7.848	165	742662	90.00	ppm	97
58) 3-Nitroaniline	8.073	138	908479	83.53	ppm	96
59) Acenaphthene	8.163	153	2945479	72.47	ppm	98
60) 2,4-Dinitrophenol	8.217	184	823582	353.25	ppm	84
61) 4-Nitrophenol	8.319	109	564525	85.71	ppm	92
62) Dibenzofuran	8.409	168	3796493	70.08	ppm	94
63) 2,4-Dinitrotoluene	8.404	165	993587	90.02	ppm	98
64) 2,3,4,6-Tetrachlorophenol	8.581	232	681408	82.07	ppm	87
65) Diethylphthalate	8.784	149	3306654	73.03	ppm	96
66) Fluorene	8.902	166	3263209	73.09	ppm	97
67) 4-Chlorophenyl-phenyle...	8.918	204	1440118	71.05	ppm	89
68) 4-Nitroaniline	8.960	138	904082	75.03	ppm	100
70) 4,6-Dinitro-2-methylph...	8.998	198	553954	150.74	ppm	94
71) n-Nitrosodiphenylamine	9.099	169	2255658	75.67	ppm	99
72) 1,2-Diphenylhydrazine	9.153	77	4018730	75.32	ppm	93
74) 4-Bromophenyl-phenylether	9.650	248	808256	74.31	ppm	94
75) Hexachlorobenzene	9.715	284	890805	75.80	ppm	96
76) Pentachlorophenol	10.025	266	1185432	185.69	ppm	97

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25927.D
Acq On : 13 May 2016 10:47 am
Operator : ariellec
Sample : ic1209-80
Misc : op93693,e6p1209
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 13 11:11:08 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 11:10:43 2016
QLast Update : Fri May 13 11:10:43 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
77) Phenanthrene	10.351	178	4587213	72.52 ppm	99
78) Anthracene	10.426	178	4604222	73.91 ppm	99
79) Carbazole	10.699	167	4348459	74.09 ppm	98
80) Di-n-butylphthalate	11.319	149	5561964	75.67 ppm	99
81) Fluoranthene	12.212	202	4890299	72.11 ppm	91
82) Octadecane	10.249	57	2441057	77.78 ppm	98
84) Pyrene	12.565	202	5105149	74.78 ppm	99
86) Butylbenzylphthalate	13.710	149	2479479	79.47 ppm	92
87) Butyl stearate	13.876	56	1798980	82.61 ppm	99
88) Benzo[a]anthracene	14.486	228	4446668	71.35 ppm	99
89) 3,3'-Dichlorobenzidine	14.496	252	1681982	80.29 ppm	98
90) Chrysene	14.550	228	4328890	73.80 ppm	100
91) bis(2-Ethylhexyl)phtha...	14.667	149	3459019	73.03 ppm	98
93) Di-n-octylphthalate	15.662	149	5941702	82.90 ppm	97
94) Benzo[b]fluoranthene	16.101	252	4881765	76.76 ppm	99
95) Benzo[k]fluoranthene	16.149	252	4337281	68.58 ppm	100
96) Benzo[a]pyrene	16.539	252	4152213	77.58 ppm	95
97) Indeno[1,2,3-cd]pyrene	18.032	276	4609633m	83.36 ppm	
98) Dibenz(a,h)acridine	17.716	279	3991015	80.62 ppm	99
99) Dibenz[a,h]anthracene	18.069	278	4688862	80.51 ppm	97
100) 7,12-Dimethylbenz(a)an...	16.106	256	2155704	86.38 ppm	97
101) Benzo[g,h,i]perylene	18.417	276	4557626	79.49 ppm	94

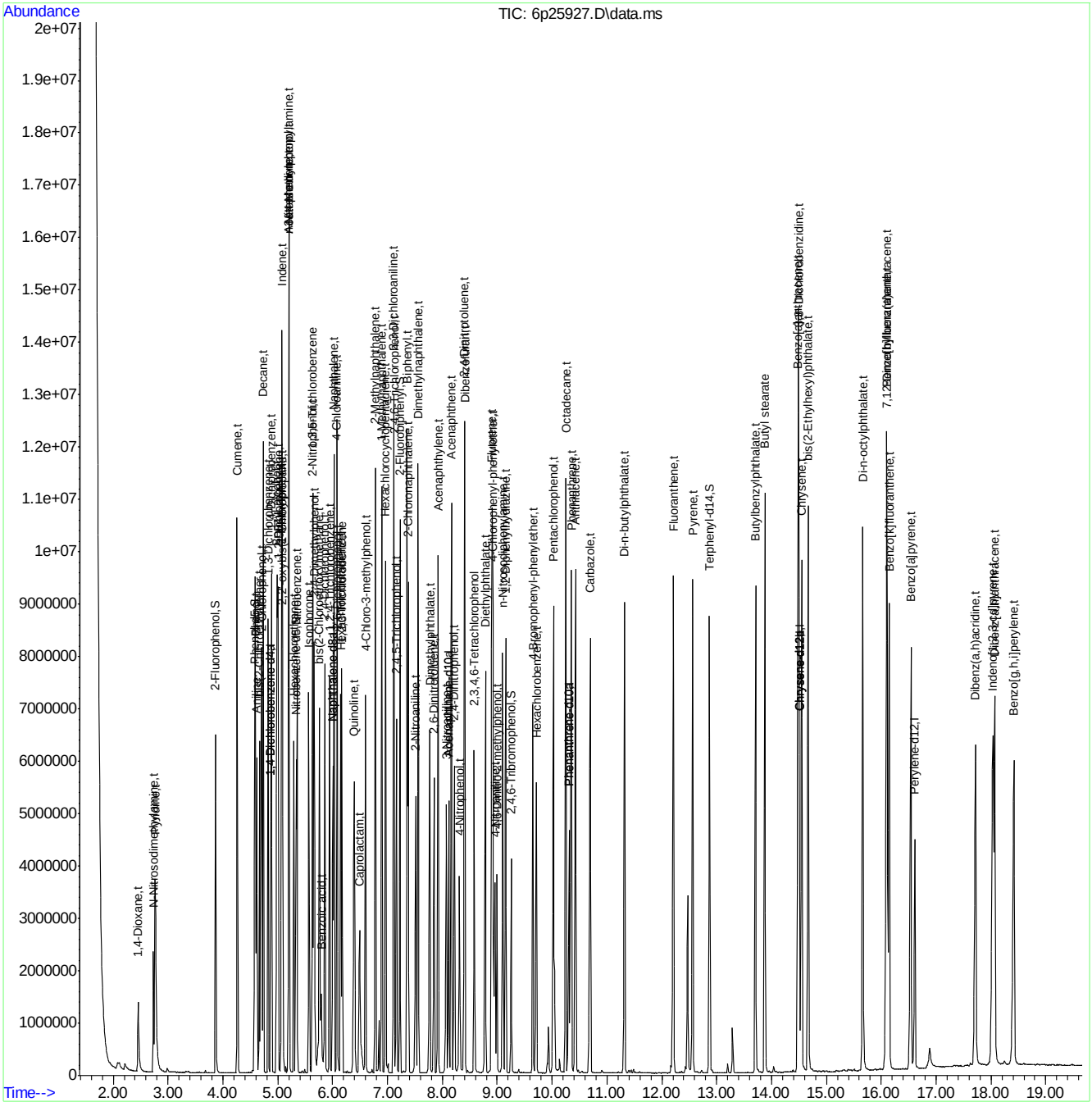
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25927.D
Acq On : 13 May 2016 10:47 am
Operator : ariellec
Sample : ic1209-80
Misc : op93693,e6p1209
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 13 11:11:08 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 11:10:43 2016
QLast Update : Fri May 13 11:10:43 2016
Response via : Initial Calibration



SGS ACCUTEST JC20098

Manual Integration Approval Summary

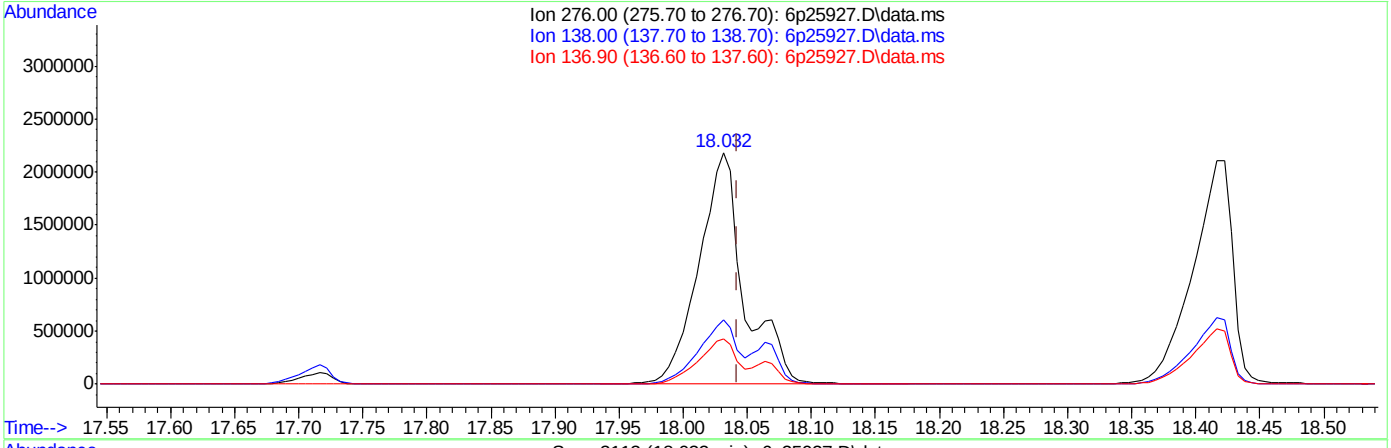
Sample Number:	E6P1209-IC1209	**Method:**	SW846 8270D
Lab FileID:	6P25927.D	**Analyst approved:**	05/16/16 09:29 Arielle Cocozza
Injection Time:	05/13/16 10:47	**Supervisor approved:**	05/16/16 18:39 Nina Pandya

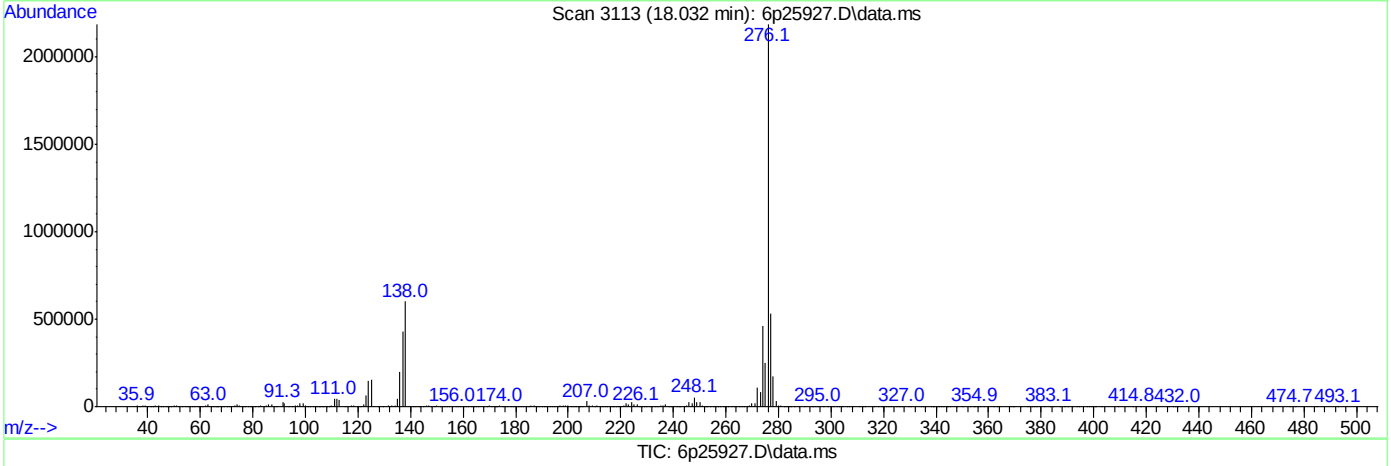
Parameter	CAS	Sig#	R.T. (min.)	Reason
Indeno(1,2,3-cd)pyrene	193-39-5		18.03	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25927.D
Acq On : 13 May 2016 10:47 am
Operator : ariellec
Sample : ic1209-80
Misc : op93693,e6p1209
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 13 11:10:46 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 11:10:43 2016
QLast Update : Fri May 13 11:10:43 2016
Response via : Initial Calibration





TIC: 6p25927.D\data.ms

(97) Indeno[1,2,3-cd]pyrene (t)

18.032min (-0.011) 98.34ppm

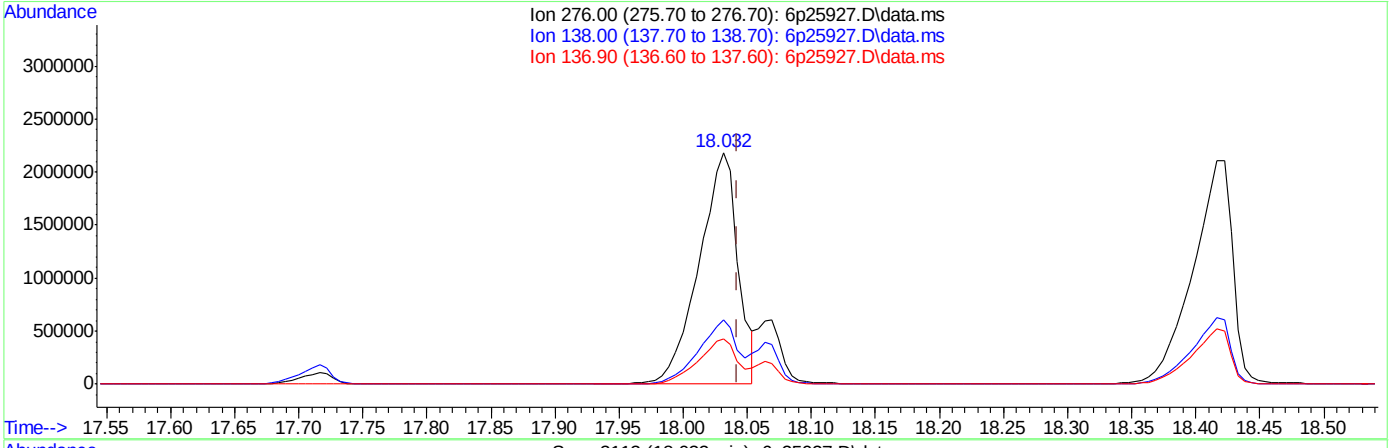
response 5437743

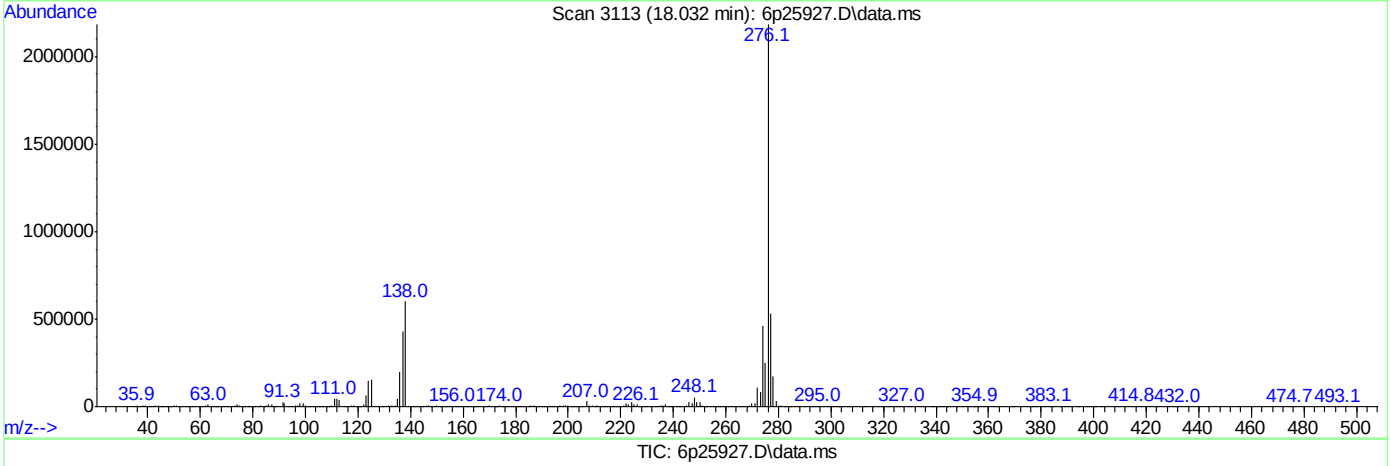
Ion	Exp%	Act%
276.00	100	100
138.00	20.00	27.50
136.90	14.60	19.67
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25927.D
Acq On : 13 May 2016 10:47 am
Operator : ariellec
Sample : ic1209-80
Misc : op93693,e6p1209
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 13 11:10:46 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 11:10:43 2016
QLast Update : Fri May 13 11:10:43 2016
Response via : Initial Calibration





TIC: 6p25927.D\data.ms

(97) Indeno[1,2,3-cd]pyrene (t)

18.032min (-0.011) 83.36ppm m

response 4609633

Ion	Exp%	Act%
276.00	100	100
138.00	20.00	27.54
136.90	14.60	19.70
0.00	0.00	0.00

SGS ACCUTEST JC20098

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
05/16/16 18:43

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25928.D
Acq On : 13 May 2016 11:15 am
Operator : ariellec
Sample : icc1209-50
Misc : op93693,e6p1209
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 13 11:36:45 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 11:11:22 2016
QLast Update : Fri May 13 11:11:22 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	4.869	152	502297	40.00 ppm	0.00
24) Naphthalene-d8	6.003	136	2161230	40.00 ppm	0.00
47) Acenaphthene-d10	8.116	164	1222131	40.00 ppm	0.00
69) Phenanthrene-d10	10.303	188	1993199	40.00 ppm	0.00
83) Chrysene-d12	14.502	240	1896728	40.00 ppm	0.00
92) Perylene-d12	16.609	264	1831871	40.00 ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.869	152	502297	40.00 ppm	0.00
104) Acenaphthene-d10a	8.116	164	1222131	40.00 ppm	0.00
106) Phenanthrene-d10a	10.303	188	1993199	40.00 ppm	0.00
110) Chrysene-d12a	14.502	240	1896728	40.00 ppm	0.00
112) Naphthalene-d8a	6.003	136	2161230	40.00 ppm	0.00
114) Chrysene-d12b	14.502	240	1896728	40.00 ppm	0.00
System Monitoring Compounds					
5) 2-Fluorophenol	3.863	112	923147	47.50 ppm	0.00
Spiked Amount 50.000				Recovery = 95.00%	
8) Phenol-d5	4.575	99	1206688	48.12 ppm	0.00
Spiked Amount 50.000				Recovery = 96.24%	
25) Nitrobenzene-d5	5.329	82	1139198	47.21 ppm	0.00
Spiked Amount 50.000				Recovery = 94.42%	
51) 2-Fluorobiphenyl	7.222	172	1871769	46.84 ppm	0.00
Spiked Amount 50.000				Recovery = 93.68%	
73) 2,4,6-Tribromophenol	9.249	330	260091	50.97 ppm	0.00
Spiked Amount 50.000				Recovery = 101.94%	
85) Terphenyl-d14	12.870	244	1921279	47.84 ppm	0.00
Spiked Amount 50.000				Recovery = 95.68%	
108) o-Terphenyl	0.000	230	0	0.00 ppm	
Spiked Amount 50.000				Recovery = 0.00%	
109) 1-Chlorooctadecane	12.207	57	1531	0.00 ppm	0.00
Spiked Amount 50.000				Recovery = 0.00%	
Target Compounds					Qvalue
2) 1,4-Dioxane	2.457	88	418681	44.65 ppm	94
3) Pyridine	2.767	79	1117296	49.06 ppm	98
4) N-Nitrosodimethylamine	2.735	74	669710	48.87 ppm	94
6) Indene	5.077	116	1639269	48.39 ppm	98
7) Cumene	4.259	105	2310374	47.69 ppm	98
9) Phenol	4.585	94	1304259	47.62 ppm	80
10) Aniline	4.612	93	1373168	44.43 ppm	94
11) bis(2-Chloroethyl)ether	4.660	93	917605	47.98 ppm	97
12) 2-Chlorophenol	4.703	128	933222	47.64 ppm	99
13) Decane	4.735	43	1156636	45.74 ppm	94
14) 1,3-Dichlorobenzene	4.821	146	975368	47.76 ppm	98
15) 1,4-Dichlorobenzene	4.885	146	988222	47.88 ppm	99
16) Benzyl alcohol	4.976	108	645412	48.38 ppm	99
17) 1,2-Dichlorobenzene	5.003	146	920687	46.14 ppm	99
18) Acetophenone	5.200	105	1333528	47.65 ppm	81
19) 2-Methylphenol	5.061	108	888611	47.52 ppm	99
20) 2,2'-oxybis(1-Chloropr...	5.088	121	322839	46.65 ppm	91

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25928.D
Acq On : 13 May 2016 11:15 am
Operator : ariellec
Sample : icc1209-50
Misc : op93693,e6p1209
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 13 11:36:45 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 11:11:22 2016
QLast Update : Fri May 13 11:11:22 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
21)	3&4-Methylphenol	5.190	108	950515	48.31	ppm		99
22)	n-Nitroso-di-n-propyla...	5.200	70	789125	46.50	ppm		92
23)	Hexachloroethane	5.286	201	299100	48.35	ppm	#	73
26)	Nitrobenzene	5.345	77	1176707	46.78	ppm		98
27)	Quinoline	6.383	129	1910629	47.09	ppm		98
28)	Isophorone	5.559	82	1974609	45.89	ppm		97
29)	2-Nitrophenol	5.628	139	509934	48.15	ppm		92
30)	2,4-Dimethylphenol	5.660	107	954251	47.74	ppm		96
31)	Benzoic acid	5.773	105	659787	59.58	ppm		91
32)	bis(2-Chloroethoxy)met...	5.751	93	1121488	45.81	ppm		99
33)	2,4-Dichlorophenol	5.853	162	719541	46.59	ppm		98
34)	2,6-Dichlorophenol	6.083	162	692867	47.06	ppm		99
35)	1,3,5-Trichlorobenzene	5.639	180	785170	47.04	ppm		98
36)	1,2,4-Trichlorobenzene	5.939	180	757101	46.96	ppm		96
37)	1,2,3-Trichlorobenzene	6.169	180	741138	46.87	ppm		97
38)	Naphthalene	6.024	128	2853847	46.32	ppm		99
39)	4-Chloroaniline	6.072	127	1153434	46.00	ppm		98
40)	2,3-Dichloroaniline	7.115	161	873175	46.06	ppm		98
41)	Caprolactam	6.473	55	497433	47.79	ppm		95
42)	Hexachlorobutadiene	6.142	225	383582	46.87	ppm		98
43)	4-Chloro-3-methylphenol	6.591	107	898981	47.04	ppm		98
44)	2-Methylnaphthalene	6.778	141	1535721	47.10	ppm		99
45)	1-Methylnaphthalene	6.891	141	1603084	47.90	ppm		99
46)	Dimethylnaphthalene	7.554	156	1638703	47.94	ppm		95
48)	Hexachlorocyclopentadiene	6.960	237	888608	104.83	ppm		96
49)	2,4,6-Trichlorophenol	7.115	196	488447	49.35	ppm		95
50)	2,4,5-Trichlorophenol	7.158	196	539969	48.88	ppm		94
52)	2-Chloronaphthalene	7.372	162	1630153	46.14	ppm		97
53)	Biphenyl	7.351	154	2224207	46.96	ppm		99
54)	2-Nitroaniline	7.511	65	656655	51.70	ppm		90
55)	Dimethylphthalate	7.763	163	1925127	46.58	ppm		99
56)	Acenaphthylene	7.918	152	2808795	47.96	ppm		99
57)	2,6-Dinitrotoluene	7.843	165	434872	53.87	ppm		92
58)	3-Nitroaniline	8.062	138	531682	50.97	ppm		98
59)	Acenaphthene	8.158	153	1741820	46.26	ppm		97
60)	2,4-Dinitrophenol	8.212	184	445687	154.77	ppm		96
61)	4-Nitrophenol	8.308	109	330344	51.94	ppm		93
62)	Dibenzofuran	8.404	168	2286132	45.90	ppm		96
63)	2,4-Dinitrotoluene	8.399	165	584628	54.14	ppm		100
64)	2,3,4,6-Tetrachlorophenol	8.575	232	393414	49.63	ppm		87
65)	Diethylphthalate	8.773	149	1962184	46.70	ppm		95
66)	Fluorene	8.896	166	1957071	47.23	ppm		97
67)	4-Chlorophenyl-phenyle...	8.918	204	851009	45.53	ppm		92
68)	4-Nitroaniline	8.945	138	536195	47.65	ppm		97
70)	4,6-Dinitro-2-methylph...	8.987	198	306043	71.93	ppm		93
71)	n-Nitrosodiphenylamine	9.094	169	1341667	48.12	ppm		99
72)	1,2-Diphenylhydrazine	9.153	77	2400960	48.16	ppm		95
74)	4-Bromophenyl-phenylether	9.645	248	483572	47.74	ppm		91
75)	Hexachlorobenzene	9.709	284	535521	48.70	ppm		91
76)	Pentachlorophenol	10.020	266	687249	109.15	ppm		98

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25928.D
Acq On : 13 May 2016 11:15 am
Operator : ariellec
Sample : icc1209-50
Misc : op93693,e6p1209
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 13 11:36:45 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 11:11:22 2016
QLast Update : Fri May 13 11:11:22 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
77) Phenanthrene	10.346	178	2744213	46.85	ppm	98
78) Anthracene	10.421	178	2764381	47.71	ppm	99
79) Carbazole	10.688	167	2588014	47.38	ppm	98
80) Di-n-butylphthalate	11.319	149	3321192	48.30	ppm	100
81) Fluoranthene	12.207	202	2934582	46.79	ppm	90
82) Octadecane	10.244	57	1469848	49.74	ppm	96
84) Pyrene	12.560	202	3049032	46.77	ppm	99
86) Butylbenzylphthalate	13.705	149	1454956	48.11	ppm	93
87) Butyl stearate	13.871	56	1057454	49.61	ppm	96
88) Benzo[a]anthracene	14.480	228	2649029	45.00	ppm	98
89) 3,3'-Dichlorobenzidine	14.486	252	1000776	49.16	ppm	96
90) Chrysene	14.539	228	2603547	46.62	ppm	100
91) bis(2-Ethylhexyl)phtha...	14.662	149	2024447	45.00	ppm	97
93) Di-n-octylphthalate	15.657	149	3450602	49.16	ppm	97
94) Benzo[b]fluoranthene	16.090	252	2893823	47.36	ppm	99
95) Benzo[k]fluoranthene	16.133	252	2681818	45.31	ppm	96
96) Benzo[a]pyrene	16.529	252	2530311	49.08	ppm	95
97) Indeno[1,2,3-cd]pyrene	18.021	276	2741438m	50.55	ppm	
98) Dibenz(a,h)acridine	17.711	279	2475117	51.42	ppm	100
99) Dibenz[a,h]anthracene	18.059	278	2855230	50.44	ppm	98
100) 7,12-Dimethylbenz(a)an...	16.096	256	1272937	51.53	ppm	97
101) Benzo[g,h,i]perylene	18.406	276	2816673	50.70	ppm	95

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

7.6.84

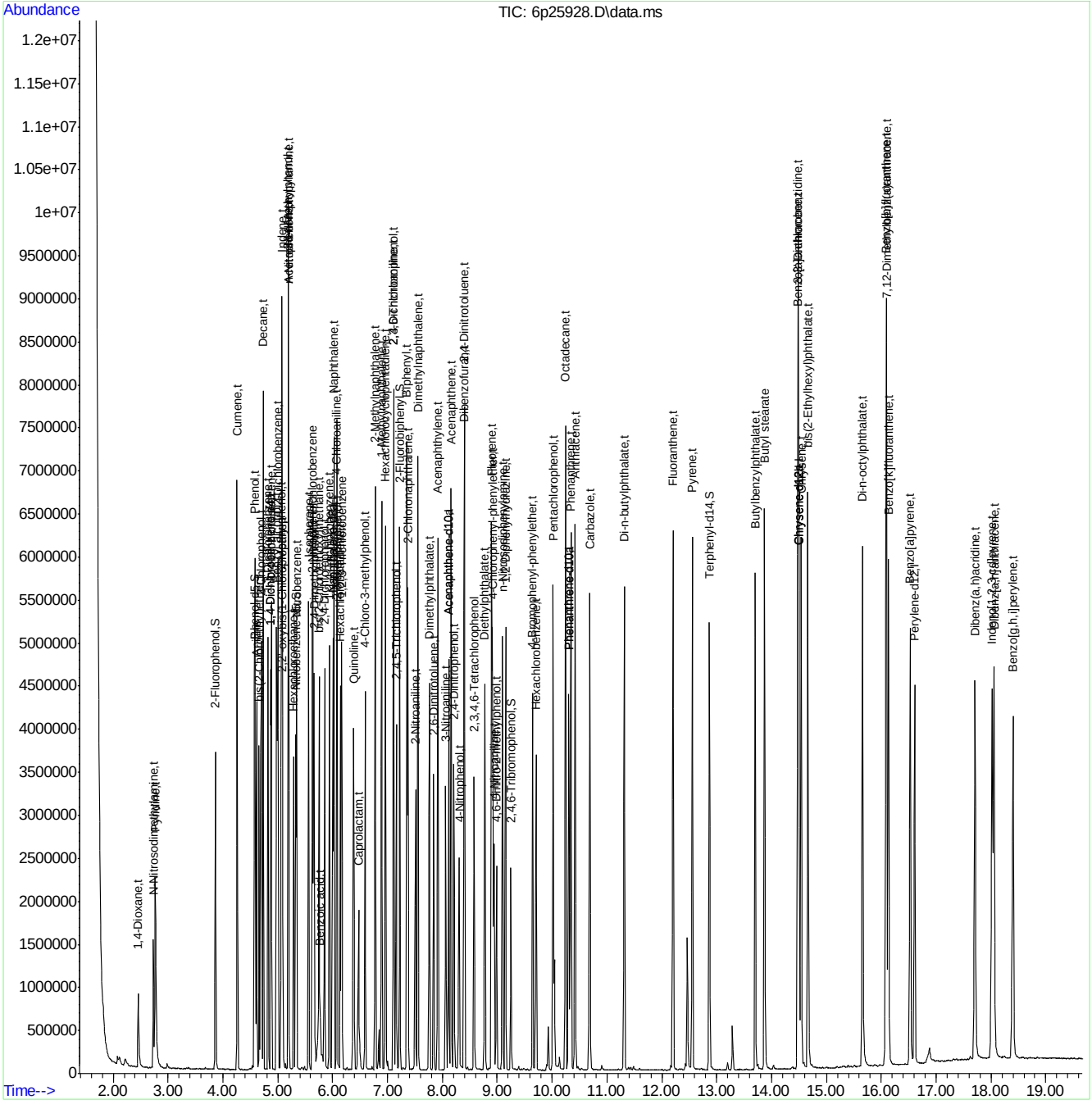
7

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25928.D
Acq On : 13 May 2016 11:15 am
Operator : ariellec
Sample : icc1209-50
Misc : op93693,e6p1209
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 13 11:36:45 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 11:11:22 2016
QLast Update : Fri May 13 11:11:22 2016
Response via : Initial Calibration



SGS ACCUTEST JC20098

Manual Integration Approval Summary

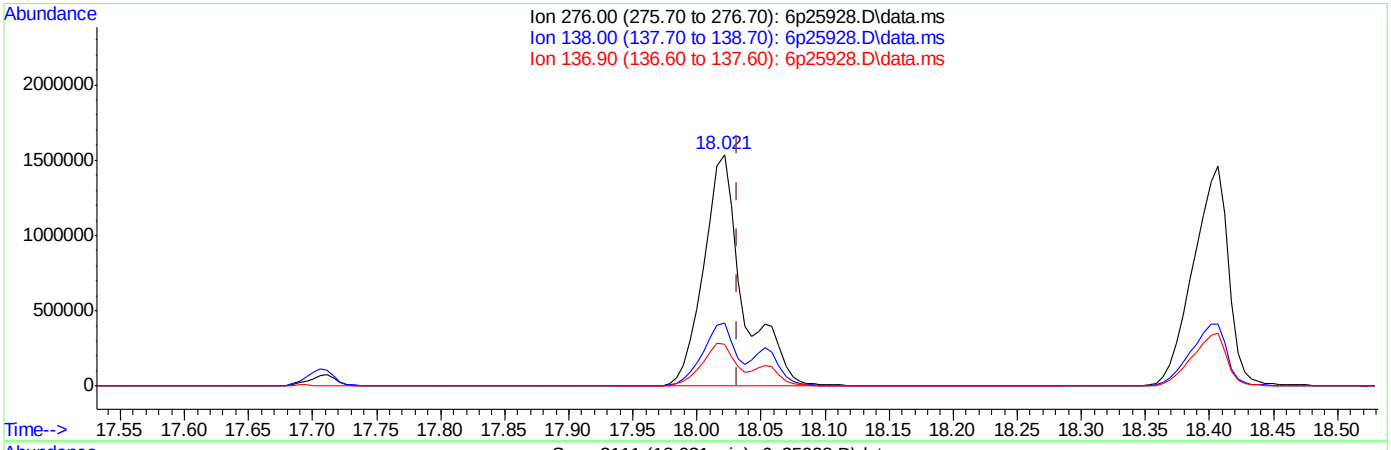
Sample Number:	E6P1209-ICC1209	**Method:**	SW846 8270D
Lab FileID:	6P25928.D	**Analyst approved:**	05/16/16 09:29 Arielle Cocozza
Injection Time:	05/13/16 11:15	**Supervisor approved:**	05/16/16 18:43 Nina Pandya

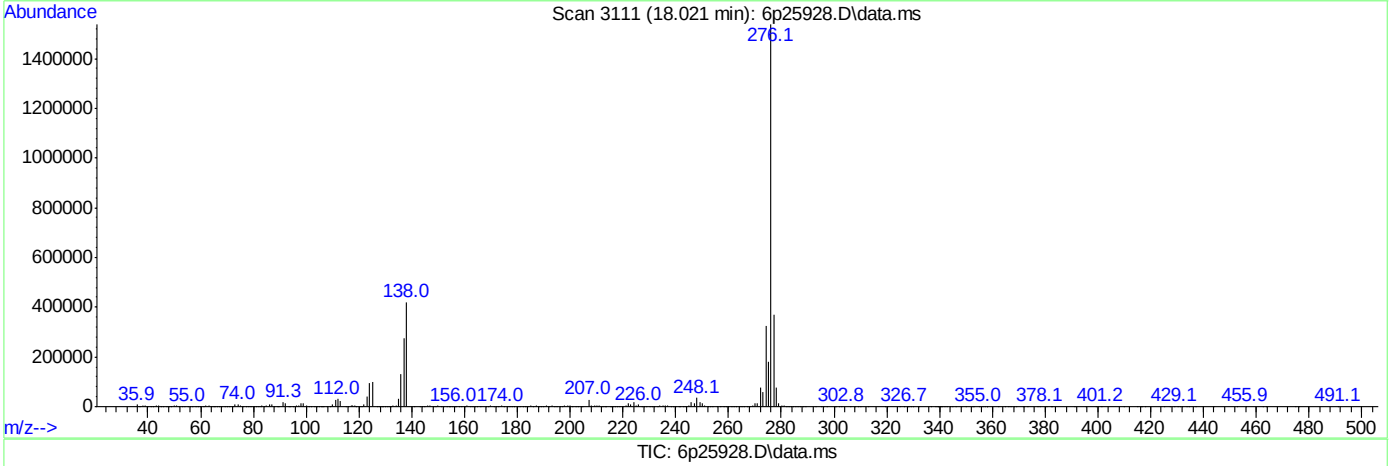
Parameter	CAS	Sig#	R.T. (min.)	Reason
Indeno(1,2,3-cd)pyrene	193-39-5		18.02	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25928.D
Acq On : 13 May 2016 11:15 am
Operator : ariellec
Sample : icc1209-50
Misc : op93693,e6p1209
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 13 11:34:51 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 11:11:22 2016
QLast Update : Fri May 13 11:11:22 2016
Response via : Initial Calibration





TIC: 6p25928.D\data.ms

(97) Indeno[1,2,3-cd]pyrene (t)

18.021min (-0.011) 61.34ppm

response 3326256

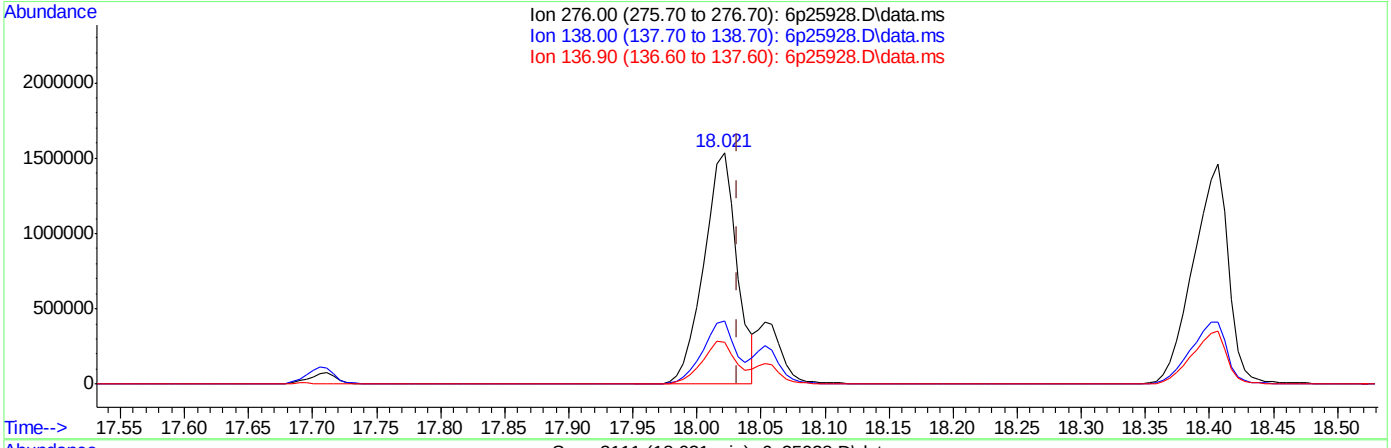
Ion	Exp%	Act%
276.00	100	100
138.00	20.00	27.31
136.90	14.60	17.92
0.00	0.00	0.00

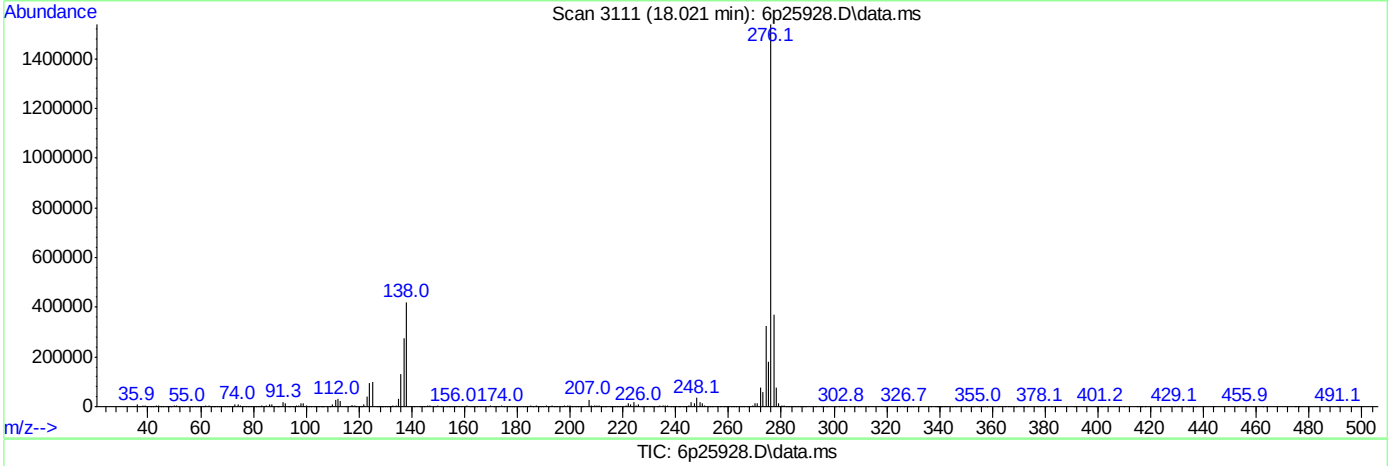
SGS ACCUTEST JC20098

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25928.D
Acq On : 13 May 2016 11:15 am
Operator : ariellec
Sample : icc1209-50
Misc : op93693,e6p1209
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 13 11:34:51 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 11:11:22 2016
QLast Update : Fri May 13 11:11:22 2016
Response via : Initial Calibration





TIC: 6p25928.D\data.ms

(97) Indeno[1,2,3-cd]pyrene (t)

18.021min (-0.011) 50.55ppm m

response 2741438

Ion	Exp%	Act%
276.00	100	100
138.00	20.00	27.32
136.90	14.60	17.95
0.00	0.00	0.00

SGS ACCUTEST JC20098

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
05/16/16 18:39

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25929.D
Acq On : 13 May 2016 11:42 am
Operator : ariellec
Sample : ic1209-25
Misc : op93693,e6p1209
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 13 12:04:42 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 11:39:12 2016
QLast Update : Fri May 13 11:39:12 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.869	152	506892	40.00	ppm	0.00
24) Naphthalene-d8	5.997	136	2096052	40.00	ppm	0.00
47) Acenaphthene-d10	8.110	164	1196565	40.00	ppm	0.00
69) Phenanthrene-d10	10.303	188	1955220	40.00	ppm	0.00
83) Chrysene-d12	14.496	240	1855371	40.00	ppm	0.00
92) Perylene-d12	16.604	264	1808233	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.869	152	506892	40.00	ppm	0.00
104) Acenaphthene-d10a	8.110	164	1196565	40.00	ppm	0.00
106) Phenanthrene-d10a	10.303	188	1955220	40.00	ppm	0.00
110) Chrysene-d12a	14.496	240	1855371	40.00	ppm	0.00
112) Naphthalene-d8a	5.997	136	2096052	40.00	ppm	0.00
114) Chrysene-d12b	14.496	240	1855371	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.858	112	466743	24.04	ppm	0.00
Spiked Amount 50.000			Recovery = 48.08%			
8) Phenol-d5	4.569	99	615497	24.51	ppm	0.00
Spiked Amount 50.000			Recovery = 49.02%			
25) Nitrobenzene-d5	5.324	82	573093	24.77	ppm	0.00
Spiked Amount 50.000			Recovery = 49.54%			
51) 2-Fluorobiphenyl	7.222	172	932271	24.13	ppm	0.00
Spiked Amount 50.000			Recovery = 48.26%			
73) 2,4,6-Tribromophenol	9.244	330	122698	24.42	ppm	0.00
Spiked Amount 50.000			Recovery = 48.84%			
85) Terphenyl-d14	12.865	244	957036	24.57	ppm	0.00
Spiked Amount 50.000			Recovery = 49.14%			
108) o-Terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
109) 1-Chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.457	88	212096	22.90	ppm	93
3) Pyridine	2.767	79	552071	24.11	ppm	98
4) N-Nitrosodimethylamine	2.729	74	334597	24.30	ppm	99
6) Indene	5.077	116	850212	25.03	ppm	99
7) Cumene	4.259	105	1204648	24.87	ppm	98
9) Phenol	4.580	94	660761	24.14	ppm	94
10) Aniline	4.612	93	706344	23.16	ppm	94
11) bis(2-Chloroethyl)ether	4.660	93	470095	24.56	ppm	97
12) 2-Chlorophenol	4.703	128	482282	24.63	ppm	94
13) Decane	4.735	43	602139	24.00	ppm	98
14) 1,3-Dichlorobenzene	4.821	146	500667	24.51	ppm	99
15) 1,4-Dichlorobenzene	4.880	146	505114	24.46	ppm	99
16) Benzyl alcohol	4.976	108	327768	24.50	ppm	93
17) 1,2-Dichlorobenzene	5.003	146	470513	23.73	ppm	97
18) Acetophenone	5.195	105	686151	24.53	ppm	99
19) 2-Methylphenol	5.056	108	453566	24.27	ppm	99
20) 2,2'-oxybis(1-Chloropr...	5.083	121	167336	24.29	ppm #	90

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25929.D
Acq On : 13 May 2016 11:42 am
Operator : ariellec
Sample : ic1209-25
Misc : op93693,e6p1209
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 13 12:04:42 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 11:39:12 2016
QLast Update : Fri May 13 11:39:12 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
21) 3&4-Methylphenol	5.184	108	482466	24.46	ppm	99
22) n-Nitroso-di-n-propyla...	5.195	70	406262	24.06	ppm	98
23) Hexachloroethane	5.286	201	151477	24.43	ppm	97
26) Nitrobenzene	5.340	77	597484	24.81	ppm	97
27) Quinoline	6.372	129	956570	24.59	ppm	99
28) Isophorone	5.554	82	1009002	24.58	ppm	99
29) 2-Nitrophenol	5.628	139	257262	25.23	ppm	86
30) 2,4-Dimethylphenol	5.655	107	460189	23.95	ppm	94
31) Benzoic acid	5.746	105	277139	24.85	ppm	99
32) bis(2-Chloroethoxy)met...	5.751	93	566992	24.29	ppm	99
33) 2,4-Dichlorophenol	5.848	162	355407	24.06	ppm	98
34) 2,6-Dichlorophenol	6.078	162	350521	24.84	ppm	99
35) 1,3,5-Trichlorobenzene	5.634	180	394640	24.67	ppm	99
36) 1,2,4-Trichlorobenzene	5.939	180	379832	24.59	ppm	97
37) 1,2,3-Trichlorobenzene	6.163	180	373151	24.64	ppm	98
38) Naphthalene	6.019	128	1439431	24.45	ppm	99
39) 4-Chloroaniline	6.067	127	590686	24.68	ppm	99
40) 2,3-Dichloroaniline	7.110	161	449755	24.85	ppm	97
41) Caprolactam	6.447	55	249261	24.91	ppm	97
42) Hexachlorobutadiene	6.142	225	197143	25.15	ppm	97
43) 4-Chloro-3-methylphenol	6.586	107	449959	24.57	ppm	100
44) 2-Methylnaphthalene	6.773	141	781781	25.01	ppm	98
45) 1-Methylnaphthalene	6.891	141	802814	24.94	ppm	99
46) Dimethylnaphthalene	7.549	156	827067	25.16	ppm	99
48) Hexachlorocyclopentadiene	6.960	237	434286	51.83	ppm	99
49) 2,4,6-Trichlorophenol	7.110	196	242562	25.10	ppm	98
50) 2,4,5-Trichlorophenol	7.153	196	263529	24.48	ppm	98
52) 2-Chloronaphthalene	7.372	162	824922	24.22	ppm	98
53) Biphenyl	7.345	154	1113572	24.31	ppm	99
54) 2-Nitroaniline	7.500	65	323569	25.84	ppm	94
55) Dimethylphthalate	7.757	163	961481	24.09	ppm	100
56) Acenaphthylene	7.912	152	1407202	24.74	ppm	99
57) 2,6-Dinitrotoluene	7.832	165	210924	26.28	ppm	91
58) 3-Nitroaniline	8.057	138	266858	26.03	ppm	98
59) Acenaphthene	8.153	153	871989	24.01	ppm	99
60) 2,4-Dinitrophenol	8.201	184	187815	60.04	ppm	96
61) 4-Nitrophenol	8.297	109	158255	25.22	ppm	94
62) Dibenzofuran	8.399	168	1160206	24.19	ppm	99
63) 2,4-Dinitrotoluene	8.388	165	291889	27.16	ppm	94
64) 2,3,4,6-Tetrachlorophenol	8.570	232	186578	24.07	ppm	97
65) Diethylphthalate	8.773	149	996453	24.55	ppm	99
66) Fluorene	8.891	166	986661	24.59	ppm	100
67) 4-Chlorophenyl-phenyle...	8.912	204	434893	24.20	ppm	99
68) 4-Nitroaniline	8.934	138	268422	24.59	ppm	99
70) 4,6-Dinitro-2-methylph...	8.977	198	136243	30.01	ppm	94
71) n-Nitrosodiphenylamine	9.089	169	674799	24.86	ppm	99
72) 1,2-Diphenylhydrazine	9.148	77	1212986	24.99	ppm	99
74) 4-Bromophenyl-phenylether	9.645	248	242508	24.63	ppm	97
75) Hexachlorobenzene	9.704	284	263193	24.53	ppm	92
76) Pentachlorophenol	10.014	266	311845	49.58	ppm	97

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25929.D
Acq On : 13 May 2016 11:42 am
Operator : ariellec
Sample : ic1209-25
Misc : op93693,e6p1209
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 13 12:04:42 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 11:39:12 2016
QLast Update : Fri May 13 11:39:12 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
77) Phenanthrene	10.341	178	1375205	24.24	ppm	99
78) Anthracene	10.415	178	1373783	24.39	ppm	100
79) Carbazole	10.683	167	1292211	24.37	ppm	99
80) Di-n-butylphthalate	11.314	149	1666714	24.88	ppm	100
81) Fluoranthene	12.202	202	1472413	24.24	ppm	99
82) Octadecane	10.239	57	749735	25.89	ppm	99
84) Pyrene	12.555	202	1533860	24.37	ppm	100
86) Butylbenzylphthalate	13.700	149	698381	23.79	ppm	94
87) Butyl stearate	13.871	56	508953	24.45	ppm	99
88) Benzo[a]anthracene	14.475	228	1322437	23.43	ppm	99
89) 3,3'-Dichlorobenzidine	14.480	252	480915	24.23	ppm	100
90) Chrysene	14.534	228	1297630	24.08	ppm	99
91) bis(2-Ethylhexyl)phtha...	14.662	149	961270	22.29	ppm	99
93) Di-n-octylphthalate	15.657	149	1572391	22.77	ppm	99
94) Benzo[b]fluoranthene	16.080	252	1398553	23.44	ppm	99
95) Benzo[k]fluoranthene	16.122	252	1365517	23.82	ppm	99
96) Benzo[a]pyrene	16.524	252	1217615	24.02	ppm	99
97) Indeno[1,2,3-cd]pyrene	18.005	276	1263496m	23.55	ppm	
98) Dibenz(a,h)acridine	17.700	279	1167470	24.43	ppm	99
99) Dibenz[a,h]anthracene	18.048	278	1370201	24.48	ppm	100
100) 7,12-Dimethylbenz(a)an...	16.085	256	616301	25.12	ppm	98
101) Benzo[g,h,i]perylene	18.390	276	1365572	24.83	ppm	98

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

7.6.85

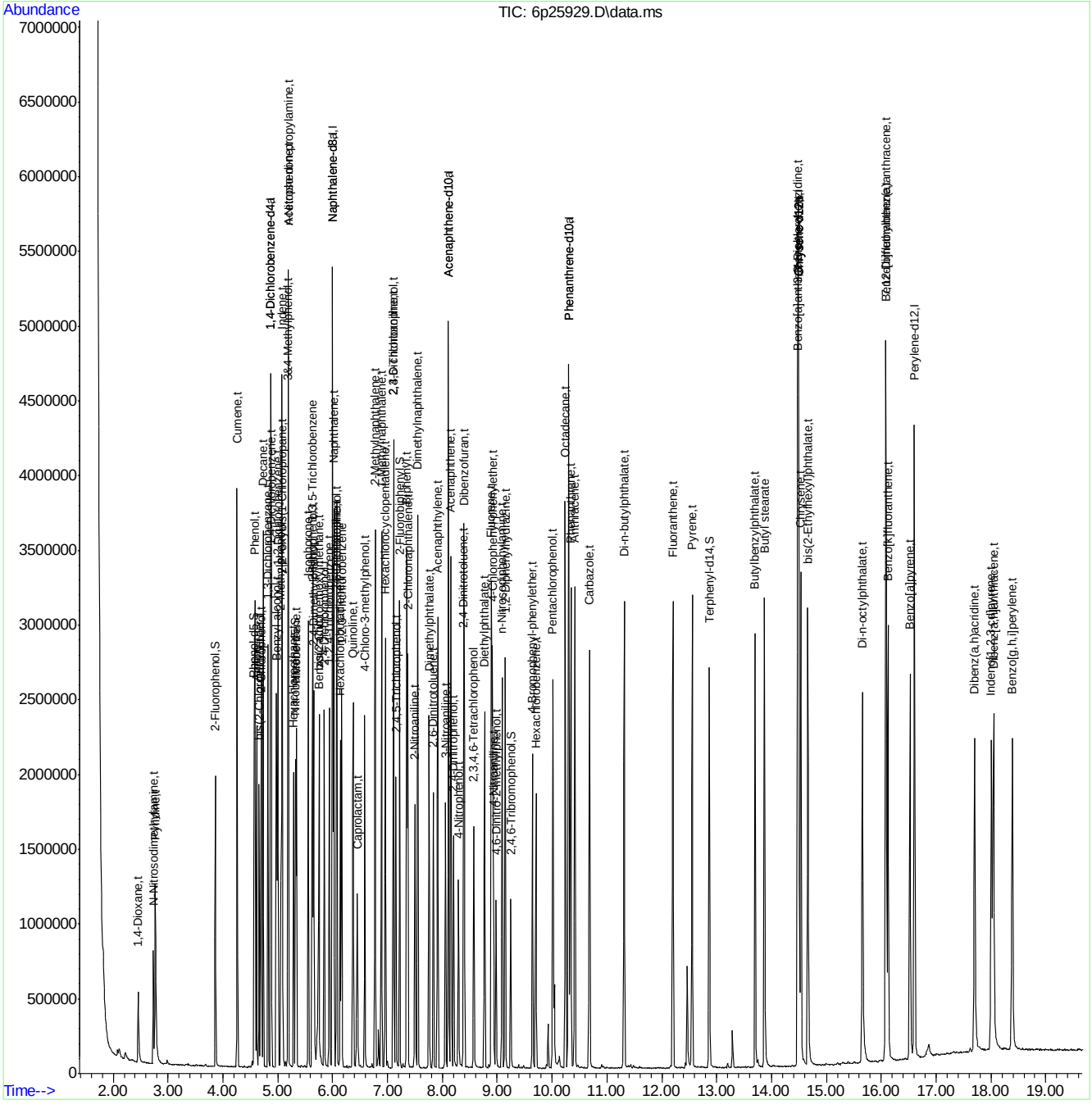
7

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25929.D
Acq On : 13 May 2016 11:42 am
Operator : ariellec
Sample : ic1209-25
Misc : op93693,e6p1209
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 13 12:04:42 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 11:39:12 2016
QLast Update : Fri May 13 11:39:12 2016
Response via : Initial Calibration



SGS ACCUTEST JC20098

Manual Integration Approval Summary

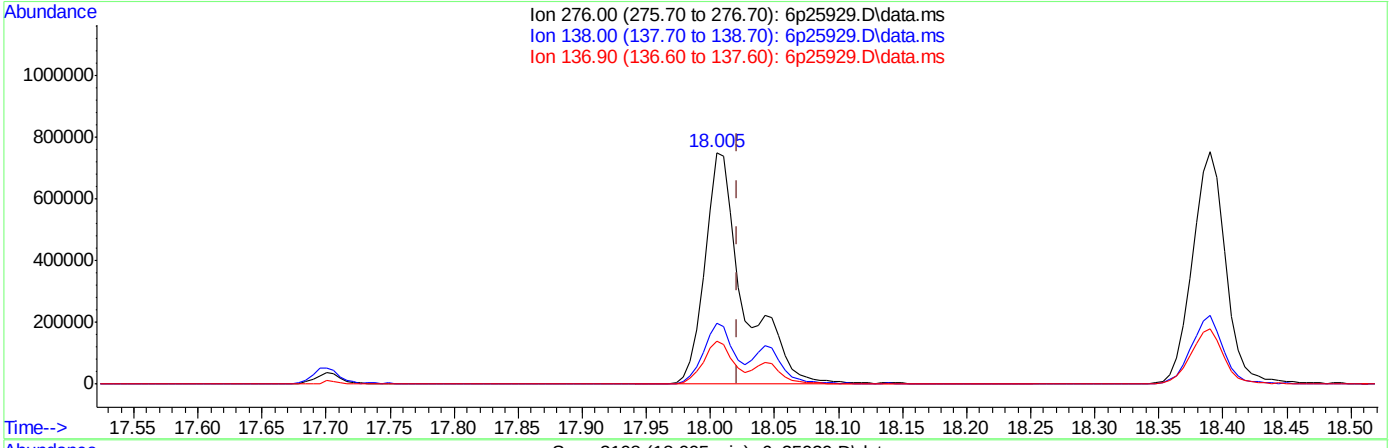
Sample Number:	E6P1209-IC1209	**Method:**	SW846 8270D
Lab FileID:	6P25929.D	**Analyst approved:**	05/16/16 09:29 Arielle Cocozza
Injection Time:	05/13/16 11:42	**Supervisor approved:**	05/16/16 18:39 Nina Pandya

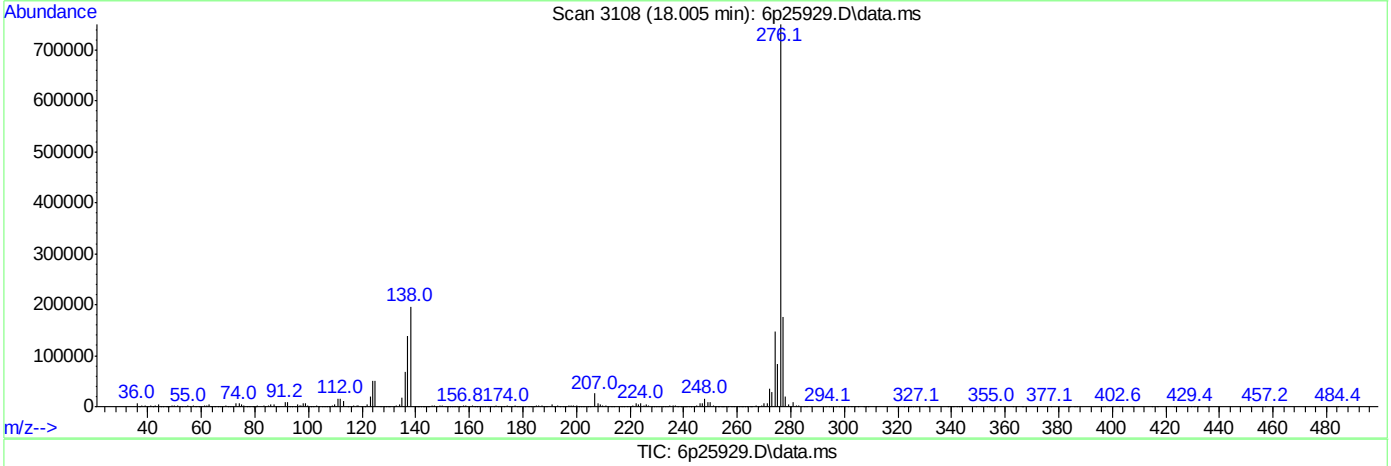
Parameter	CAS	Sig#	R.T. (min.)	Reason
Indeno(1,2,3-cd)pyrene	193-39-5		18.01	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25929.D
Acq On : 13 May 2016 11:42 am
Operator : ariellec
Sample : ic1209-25
Misc : op93693,e6p1209
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 13 12:02:10 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 11:39:12 2016
QLast Update : Fri May 13 11:39:12 2016
Response via : Initial Calibration





TIC: 6p25929.D\data.ms

(97) Indeno[1,2,3-cd]pyrene (t)

18.005min (-0.016) 30.11ppm

response 1615485

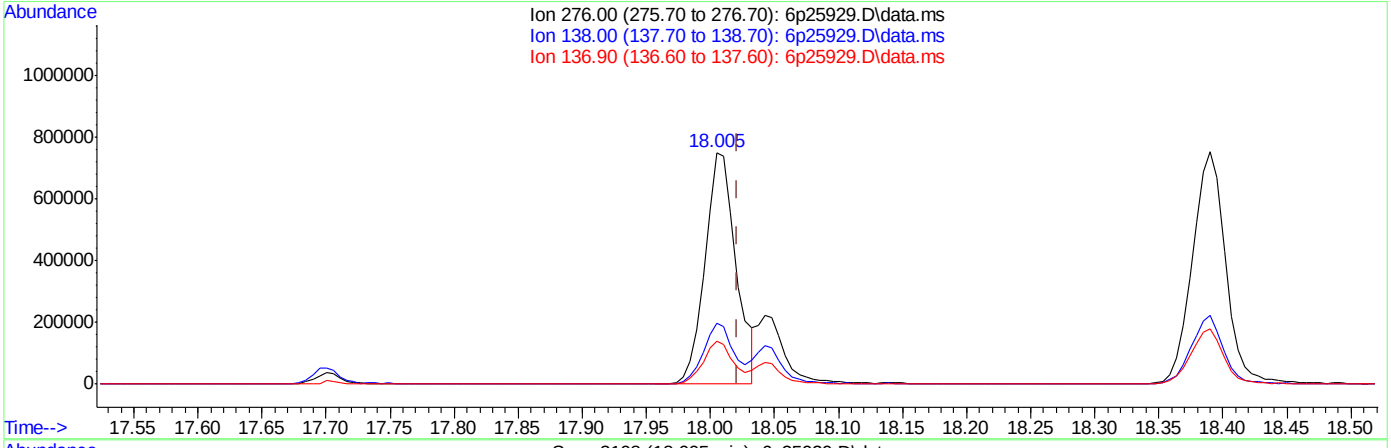
Ion	Exp%	Act%
276.00	100	100
138.00	27.30	26.19
136.90	18.00	18.47
0.00	0.00	0.00

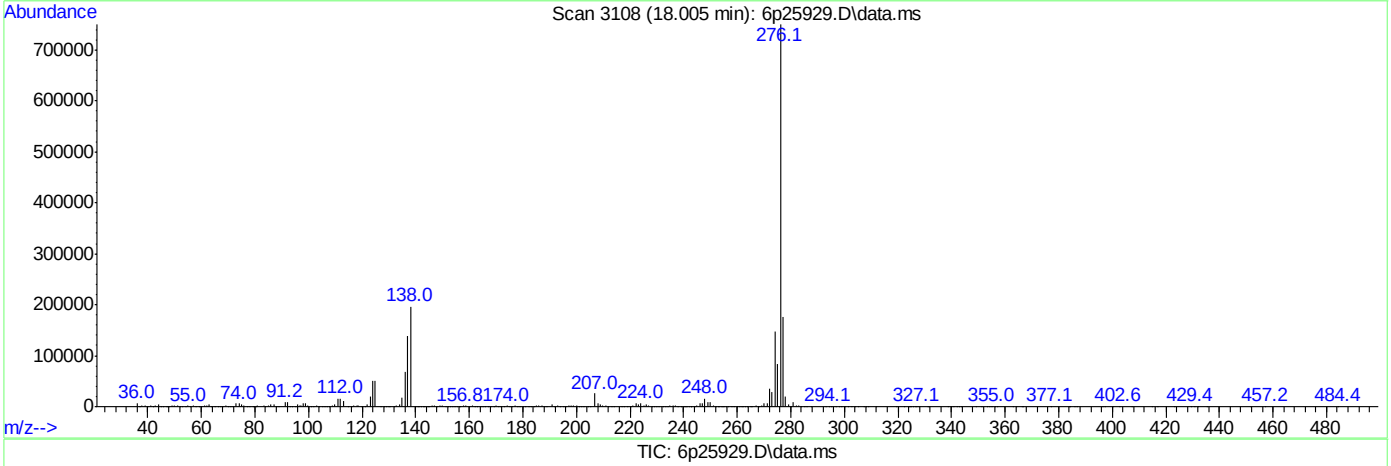
SGS ACCUTEST JC20098

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25929.D
Acq On : 13 May 2016 11:42 am
Operator : ariellec
Sample : ic1209-25
Misc : op93693,e6p1209
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 13 12:02:10 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 11:39:12 2016
QLast Update : Fri May 13 11:39:12 2016
Response via : Initial Calibration





TIC: 6p25929.D\data.ms

(97) Indeno[1,2,3-cd]pyrene (t)

18.005min (-0.016) 23.55ppm m

response 1263496

Ion	Exp%	Act%
276.00	100	100
138.00	27.30	26.24
136.90	18.00	18.52
0.00	0.00	0.00

6P25930.D

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
05/16/16 18:39

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25930.D
Acq On : 13 May 2016 12:09 pm
Operator : ariellec
Sample : ic1209-10
Misc : op93693,e6p1209
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 16 17:17:38 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 13:19:46 2016
QLast Update : Fri May 13 13:19:46 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.869	152	511515	40.00	ppm	0.00
24) Naphthalene-d8	5.997	136	2143031	40.00	ppm	0.00
47) Acenaphthene-d10	8.110	164	1232823	40.00	ppm	0.00
69) Phenanthrene-d10	10.303	188	2007725	40.00	ppm	0.00
83) Chrysene-d12	14.491	240	1885056	40.00	ppm	0.00
92) Perylene-d12	16.604	264	1790617	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.869	152	511515	40.00	ppm	0.00
104) Acenaphthene-d10a	8.110	164	1232823	40.00	ppm	0.00
106) Phenanthrene-d10a	10.303	188	2007725	40.00	ppm	0.00
110) Chrysene-d12a	14.491	240	1885056	40.00	ppm	0.00
112) Naphthalene-d8a	5.997	136	2143031	40.00	ppm	0.00
114) Chrysene-d12b	14.491	240	1885056	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.858	112	180814	9.27	ppm	0.00
Spiked Amount 50.000			Recovery	=	18.54%	
8) Phenol-d5	4.569	99	245435	9.62	ppm	0.00
Spiked Amount 50.000			Recovery	=	19.24%	
25) Nitrobenzene-d5	5.323	82	231128	9.67	ppm	0.00
Spiked Amount 50.000			Recovery	=	19.34%	
51) 2-Fluorobiphenyl	7.217	172	371251	9.34	ppm	0.00
Spiked Amount 50.000			Recovery	=	18.68%	
73) 2,4,6-Tribromophenol	9.244	330	45836	9.11	ppm	0.00
Spiked Amount 50.000			Recovery	=	18.22%	
85) Terphenyl-d14	12.865	244	374637	9.48	ppm	0.00
Spiked Amount 50.000			Recovery	=	18.96%	
108) o-Terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
109) 1-Chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.456	88	81742	9.00	ppm	99
3) Pyridine	2.767	79	219240	9.54	ppm	97
4) N-Nitrosodimethylamine	2.735	74	126885	9.24	ppm	99
6) Indene	5.072	116	336803	9.68	ppm	99
7) Cumene	4.259	105	474693	9.61	ppm	99
9) Phenol	4.580	94	255009	9.32	ppm	87
10) Aniline	4.607	93	303377	9.78	ppm	98
11) bis(2-Chloroethyl)ether	4.660	93	187058	9.62	ppm	94
12) 2-Chlorophenol	4.698	128	191818	9.67	ppm	98
13) Decane	4.730	43	244126	9.59	ppm	96
14) 1,3-Dichlorobenzene	4.821	146	198554	9.56	ppm	98
15) 1,4-Dichlorobenzene	4.879	146	202916	9.64	ppm	97
16) Benzyl alcohol	4.970	108	131034	9.67	ppm	96
17) 1,2-Dichlorobenzene	5.002	146	188757	9.47	ppm	97
18) Acetophenone	5.190	105	283353	9.86	ppm	95
19) 2-Methylphenol	5.056	108	181762	9.62	ppm	99
20) 2,2'-oxybis(1-Chloropr...	5.083	121	65581	9.42	ppm #	88

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25930.D
Acq On : 13 May 2016 12:09 pm
Operator : ariellec
Sample : ic1209-10
Misc : op93693,e6p1209
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 16 17:17:38 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 13:19:46 2016
QLast Update : Fri May 13 13:19:46 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
21) 3&4-Methylphenol	5.179	108	189129	9.49	ppm	96
22) n-Nitroso-di-n-propyla...	5.190	70	164562	9.61	ppm	98
23) Hexachloroethane	5.286	201	59652	9.51	ppm	93
26) Nitrobenzene	5.339	77	240927	9.65	ppm	98
27) Quinoline	6.366	129	379947	9.51	ppm	99
28) Isophorone	5.548	82	404886	9.56	ppm	98
29) 2-Nitrophenol	5.623	139	101807	9.65	ppm	93
30) 2,4-Dimethylphenol	5.650	107	181012	9.25	ppm	95
31) Benzoic acid	5.714	105	86995	8.10	ppm	98
32) bis(2-Chloroethoxy)met...	5.746	93	226920	9.48	ppm	99
33) 2,4-Dichlorophenol	5.847	162	139961	9.30	ppm	97
34) 2,6-Dichlorophenol	6.072	162	137142	9.48	ppm	98
35) 1,3,5-Trichlorobenzene	5.634	180	160652	9.72	ppm	98
36) 1,2,4-Trichlorobenzene	5.938	180	150253	9.50	ppm	94
37) 1,2,3-Trichlorobenzene	6.163	180	146863	9.44	ppm	99
38) Naphthalene	6.019	128	575498	9.52	ppm	99
39) 4-Chloroaniline	6.067	127	236341	9.58	ppm	97
40) 2,3-Dichloroaniline	7.110	161	179113	9.60	ppm	97
41) Caprolactam	6.425	55	92645	9.13	ppm	94
42) Hexachlorobutadiene	6.142	225	78171	9.68	ppm	99
43) 4-Chloro-3-methylphenol	6.580	107	174789	9.39	ppm	97
44) 2-Methylnaphthalene	6.773	141	315761	9.73	ppm	96
45) 1-Methylnaphthalene	6.890	141	326562	9.80	ppm	99
46) Dimethylnaphthalene	7.548	156	332418	9.78	ppm	98
48) Hexachlorocyclopentadiene	6.955	237	157385	18.22	ppm	98
49) 2,4,6-Trichlorophenol	7.104	196	94385	9.43	ppm	97
50) 2,4,5-Trichlorophenol	7.147	196	101174	9.21	ppm	97
52) 2-Chloronaphthalene	7.366	162	330629	9.40	ppm	99
53) Biphenyl	7.345	154	441606	9.34	ppm	98
54) 2-Nitroaniline	7.495	65	118857	9.27	ppm	91
55) Dimethylphthalate	7.757	163	384481	9.36	ppm	99
56) Acenaphthylene	7.912	152	560728	9.51	ppm	98
57) 2,6-Dinitrotoluene	7.832	165	80623	9.58	ppm	93
58) 3-Nitroaniline	8.051	138	104298	9.71	ppm	92
59) Acenaphthene	8.153	153	349814	9.40	ppm	97
60) 2,4-Dinitrophenol	8.196	184	53289	17.05	ppm	85
61) 4-Nitrophenol	8.286	109	56027	8.88	ppm	94
62) Dibenzofuran	8.399	168	474565	9.59	ppm	98
63) 2,4-Dinitrotoluene	8.388	165	108914	9.64	ppm	93
64) 2,3,4,6-Tetrachlorophenol	8.570	232	69095	8.87	ppm	97
65) Diethylphthalate	8.768	149	393446	9.41	ppm	100
66) Fluorene	8.891	166	392543	9.48	ppm	100
67) 4-Chlorophenyl-phenyle...	8.912	204	179661	9.65	ppm	94
68) 4-Nitroaniline	8.923	138	108005	9.60	ppm	97
70) 4,6-Dinitro-2-methylph...	8.971	198	41065	8.83	ppm	97
71) n-Nitrosodiphenylamine	9.083	169	269753	9.62	ppm	97
72) 1,2-Diphenylhydrazine	9.142	77	486851	9.65	ppm	99
74) 4-Bromophenyl-phenylether	9.640	248	95390	9.45	ppm	99
75) Hexachlorobenzene	9.698	284	105780	9.59	ppm	82
76) Pentachlorophenol	10.009	266	101461	16.52	ppm	96

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25930.D
Acq On : 13 May 2016 12:09 pm
Operator : ariellec
Sample : ic1209-10
Misc : op93693,e6p1209
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 16 17:17:38 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 13:19:46 2016
QLast Update : Fri May 13 13:19:46 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
77)	Phenanthrene	10.335	178	552341	9.49	ppm	99
78)	Anthracene	10.415	178	544897	9.44	ppm	99
79)	Carbazole	10.683	167	508719	9.37	ppm	100
80)	Di-n-butylphthalate	11.314	149	638289	9.34	ppm	100
81)	Fluoranthene	12.202	202	578481	9.36	ppm	96
82)	Octadecane	10.239	57	292199	9.73	ppm	97
84)	Pyrene	12.549	202	603858	9.44	ppm	99
86)	Butylbenzylphthalate	13.699	149	236009	8.38	ppm	89
87)	Butyl stearate	13.870	56	171851	8.53	ppm	97
88)	Benzo[a]anthracene	14.475	228	501605	8.96	ppm	98
89)	3,3'-Dichlorobenzidine	14.480	252	169491	8.81	ppm	99
90)	Chrysene	14.528	228	506338	9.33	ppm	99
91)	bis(2-Ethylhexyl)phtha...	14.662	149	319898	8.00	ppm	99
93)	Di-n-octylphthalate	15.657	149	464343	7.58	ppm	99
94)	Benzo[b]fluoranthene	16.079	252	514336	9.09	ppm	100
95)	Benzo[k]fluoranthene	16.117	252	514560	9.13	ppm	100
96)	Benzo[a]pyrene	16.518	252	432564	8.94	ppm	99
97)	Indeno[1,2,3-cd]pyrene	18.005	276	396955m	8.07	ppm	
98)	Dibenz(a,h)acridine	17.700	279	373655	8.48	ppm	99
99)	Dibenz[a,h]anthracene	18.042	278	473046	8.88	ppm	98
100)	7,12-Dimethylbenz(a)an...	16.079	256	210003	8.88	ppm	96
101)	Benzo[g,h,i]perylene	18.379	276	476300	8.93	ppm	99

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

7.6.86

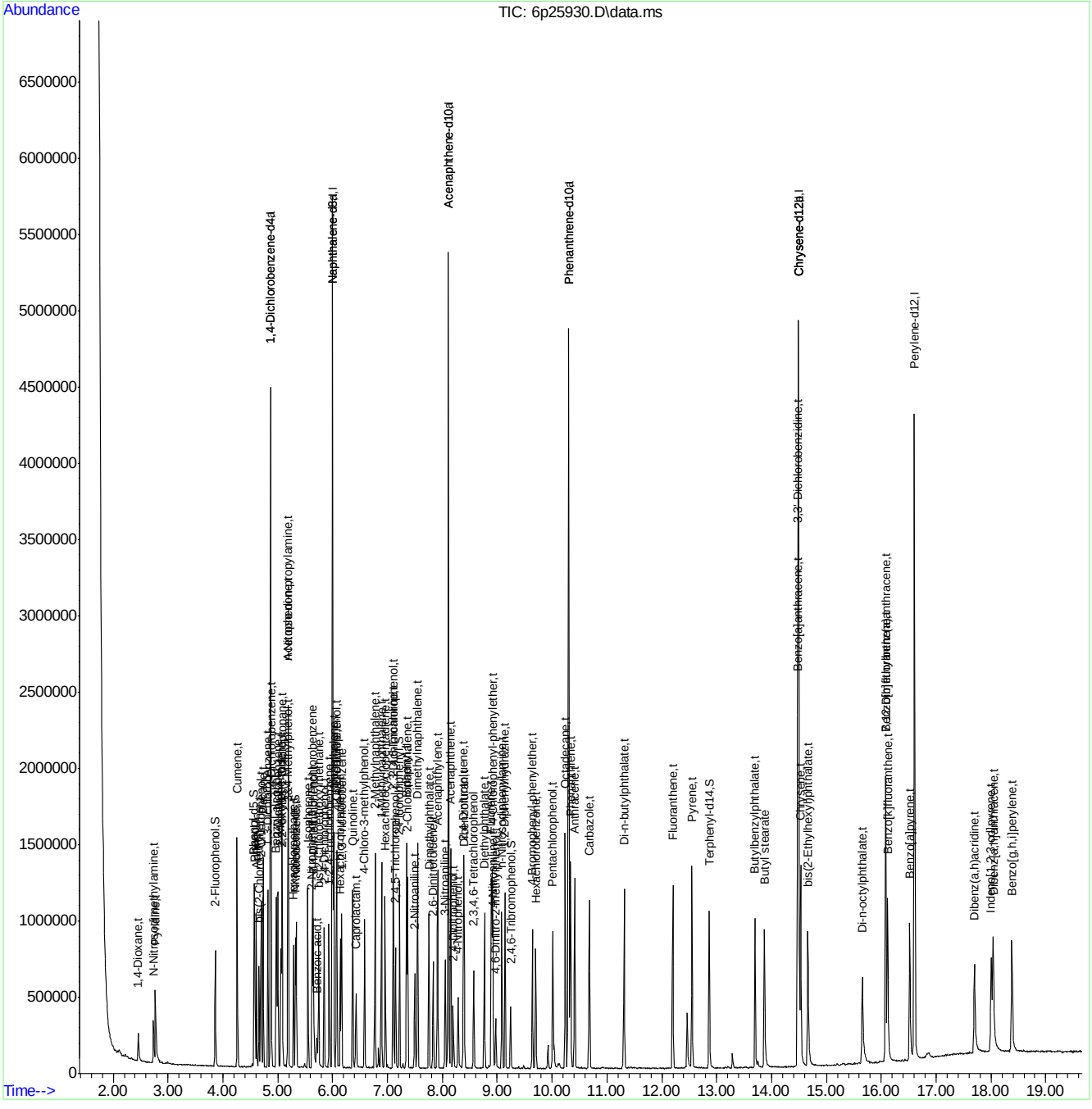
7

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25930.D
Acq On : 13 May 2016 12:09 pm
Operator : ariellec
Sample : ic1209-10
Misc : op93693,e6p1209
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 16 17:17:38 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 13:19:46 2016
QLast Update : Fri May 13 13:19:46 2016
Response via : Initial Calibration



SGS 729 of 1424 ACCUTEST JC20098

7.6.86 7

Manual Integration Approval Summary

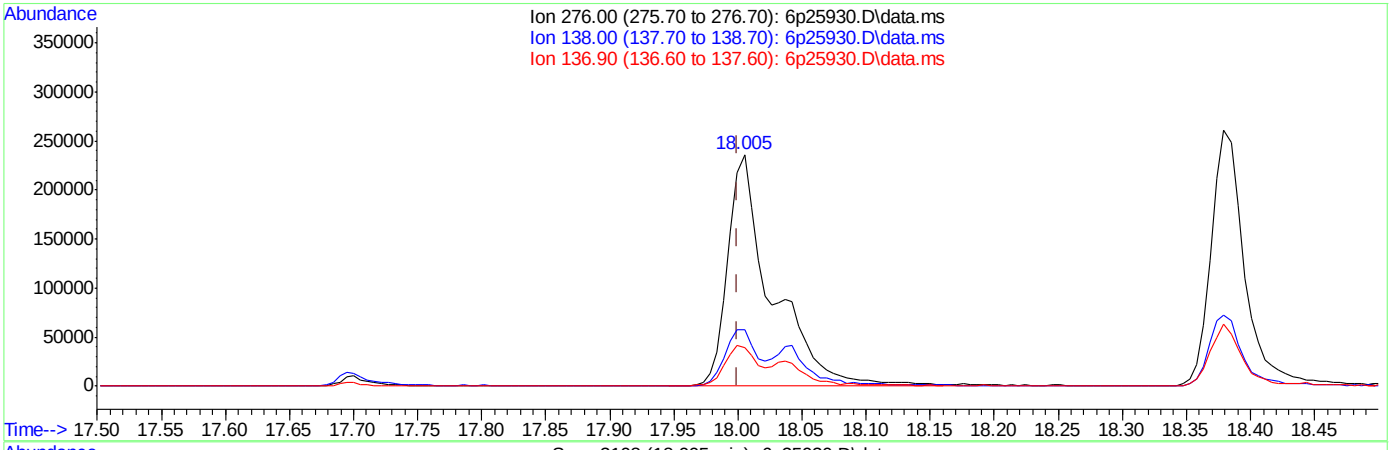
Sample Number:	E6P1209-IC1209	**Method:**	SW846 8270D
Lab FileID:	6P25930.D	**Analyst approved:**	05/16/16 18:10 Arielle Cocozza
Injection Time:	05/13/16 12:09	**Supervisor approved:**	05/16/16 18:39 Nina Pandya

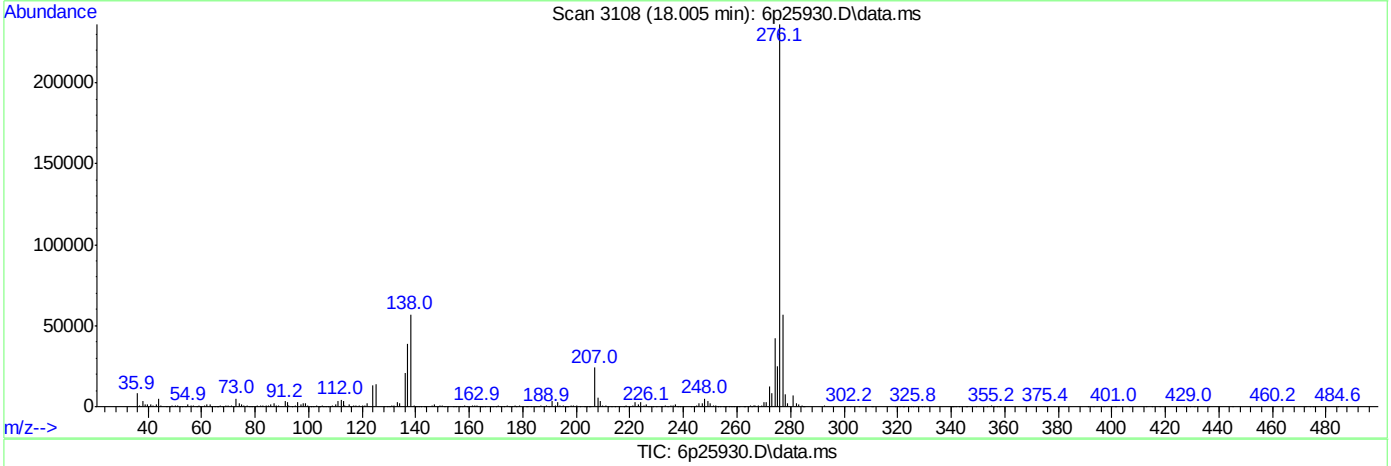
Parameter	CAS	Sig#	R.T. (min.)	Reason
Indeno(1,2,3-cd)pyrene	193-39-5		18.00	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25930.D
Acq On : 13 May 2016 12:09 pm
Operator : ariellec
Sample : ic1209-10
Misc : op93693,e6p1209
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 13 13:21:01 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 13:19:46 2016
QLast Update : Fri May 13 13:19:46 2016
Response via : Initial Calibration





(97) Indeno[1,2,3-cd]pyrene (t)

18.005min (+0.005) 11.45ppm

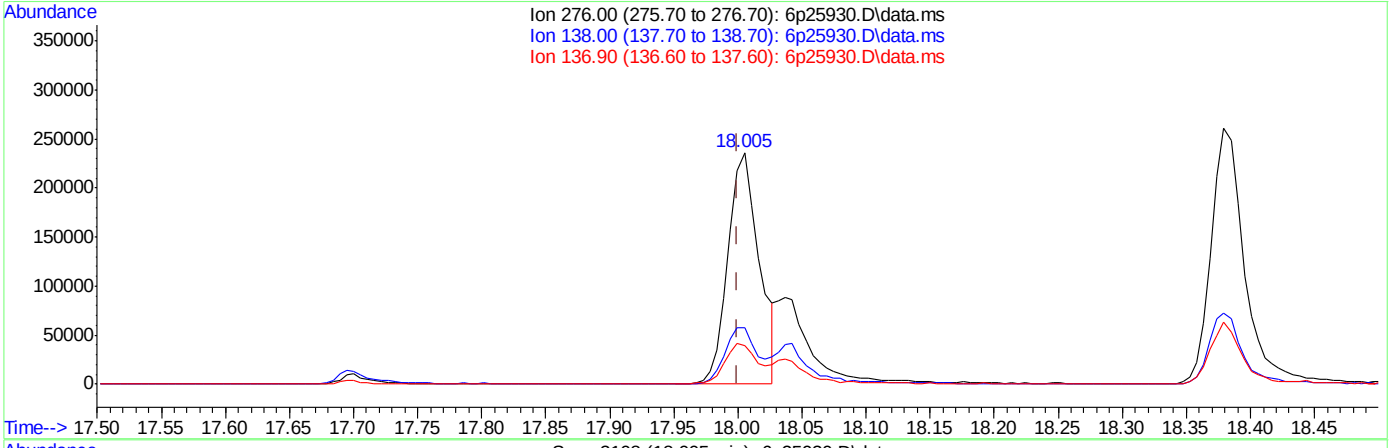
response 563156

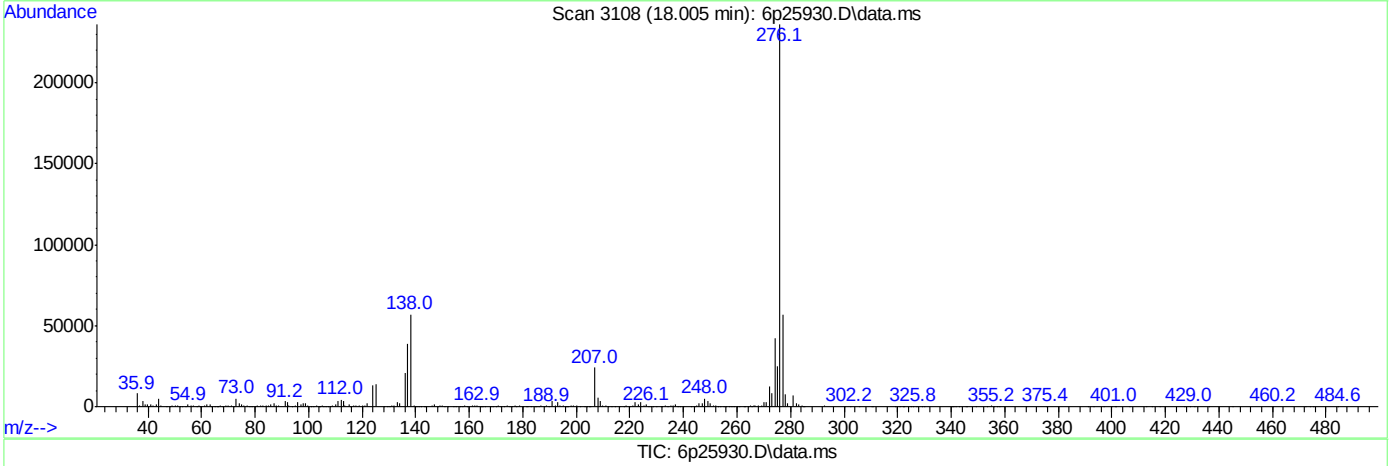
Ion	Exp%	Act%
276.00	100	100
138.00	27.30	23.86
136.90	18.00	16.37
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25930.D
Acq On : 13 May 2016 12:09 pm
Operator : ariellec
Sample : ic1209-10
Misc : op93693,e6p1209
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 13 13:21:01 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 13:19:46 2016
QLast Update : Fri May 13 13:19:46 2016
Response via : Initial Calibration





TIC: 6p25930.D\data.ms

(97) Indeno[1,2,3-cd]pyrene (t)

18.005min (+0.005) 8.07ppm m

response 396955

Ion	Exp%	Act%
276.00	100	100
138.00	27.30	24.19
136.90	18.00	16.49
0.00	0.00	0.00

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25931.D
Acq On : 13 May 2016 12:36 pm
Operator : ariellec
Sample : ic1209-5
Misc : op93693,e6p1209
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 13 13:27:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 13:18:38 2016
QLast Update : Fri May 13 13:18:38 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.869	152	479724	40.00	ppm	0.00
24) Naphthalene-d8	5.997	136	1970250	40.00	ppm	0.00
47) Acenaphthene-d10	8.110	164	1118862	40.00	ppm	0.00
69) Phenanthrene-d10	10.303	188	1811110	40.00	ppm	0.00
83) Chrysene-d12	14.491	240	1677495	40.00	ppm	0.00
92) Perylene-d12	16.604	264	1605013	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.869	152	479724	40.00	ppm	0.00
104) Acenaphthene-d10a	8.110	164	1118862	40.00	ppm	0.00
106) Phenanthrene-d10a	10.303	188	1811110	40.00	ppm	0.00
110) Chrysene-d12a	14.491	240	1677495	40.00	ppm	0.00
112) Naphthalene-d8a	5.997	136	1970250	40.00	ppm	0.00
114) Chrysene-d12b	14.491	240	1677495	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.858	112	98632	5.39	ppm	0.00
Spiked Amount 50.000			Recovery	=	10.78%	
8) Phenol-d5	4.569	99	131324	5.49	ppm	0.00
Spiked Amount 50.000			Recovery	=	10.98%	
25) Nitrobenzene-d5	5.323	82	121050	5.51	ppm	0.00
Spiked Amount 50.000			Recovery	=	11.02%	
51) 2-Fluorobiphenyl	7.217	172	196997	5.46	ppm	0.00
Spiked Amount 50.000			Recovery	=	10.92%	
73) 2,4,6-Tribromophenol	9.239	330	21772	4.80	ppm	0.00
Spiked Amount 50.000			Recovery	=	9.60%	
85) Terphenyl-d14	12.865	244	185612	5.28	ppm	0.00
Spiked Amount 50.000			Recovery	=	10.56%	
108) o-Terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
109) 1-Chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.457	88	43153	5.05	ppm	95
3) Pyridine	2.772	79	113567	5.24	ppm	98
4) N-Nitrosodimethylamine	2.735	74	66635	5.17	ppm	97
6) Indene	5.072	116	182859	5.60	ppm	99
7) Cumene	4.259	105	255466	5.52	ppm	99
9) Phenol	4.580	94	134079	5.22	ppm	89
10) Aniline	4.607	93	166606	5.72	ppm	98
11) bis(2-Chloroethyl)ether	4.655	93	99833	5.47	ppm	99
12) 2-Chlorophenol	4.698	128	99662	5.36	ppm	97
13) Decane	4.730	43	132579	5.56	ppm	97
14) 1,3-Dichlorobenzene	4.821	146	107838	5.54	ppm	96
15) 1,4-Dichlorobenzene	4.879	146	110047	5.58	ppm	100
16) Benzyl alcohol	4.970	108	68592	5.39	ppm	98
17) 1,2-Dichlorobenzene	5.002	146	101031	5.40	ppm	97
18) Acetophenone	5.190	105	152719	5.66	ppm	97
19) 2-Methylphenol	5.056	108	95218	5.38	ppm	98
20) 2,2'-oxybis(1-Chloropr...	5.083	121	35648	5.46	ppm #	94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25931.D
Acq On : 13 May 2016 12:36 pm
Operator : ariellec
Sample : ic1209-5
Misc : op93693,e6p1209
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 13 13:27:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 13:18:38 2016
QLast Update : Fri May 13 13:18:38 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
21) 3&4-Methylphenol	5.179	108	100609	5.38	ppm	97
22) n-Nitroso-di-n-propyla...	5.184	70	88966	5.54	ppm	96
23) Hexachloroethane	5.286	201	31884	5.42	ppm	94
26) Nitrobenzene	5.339	77	128904	5.61	ppm	99
27) Quinoline	6.366	129	201143	5.48	ppm	98
28) Isophorone	5.548	82	217277	5.58	ppm	99
29) 2-Nitrophenol	5.623	139	52899	5.46	ppm	93
30) 2,4-Dimethylphenol	5.650	107	98777	5.49	ppm	97
31) Benzoic acid	5.698	105	40272	4.04	ppm	87
32) bis(2-Chloroethoxy)met...	5.746	93	120667	5.48	ppm	99
33) 2,4-Dichlorophenol	5.848	162	74704	5.40	ppm	97
34) 2,6-Dichlorophenol	6.072	162	71316	5.36	ppm	94
35) 1,3,5-Trichlorobenzene	5.634	180	83631	5.51	ppm	98
36) 1,2,4-Trichlorobenzene	5.933	180	78413	5.39	ppm	95
37) 1,2,3-Trichlorobenzene	6.163	180	78571	5.49	ppm	96
38) Naphthalene	6.019	128	304848	5.48	ppm	99
39) 4-Chloroaniline	6.067	127	124905	5.51	ppm	97
40) 2,3-Dichloroaniline	7.104	161	93629	5.46	ppm	98
41) Caprolactam	6.415	55	48061	5.14	ppm	94
42) Hexachlorobutadiene	6.142	225	39932	5.38	ppm	100
43) 4-Chloro-3-methylphenol	6.580	107	88861	5.19	ppm	97
44) 2-Methylnaphthalene	6.773	141	166974	5.60	ppm	96
45) 1-Methylnaphthalene	6.885	141	168436	5.50	ppm	99
46) Dimethylnaphthalene	7.548	156	169419	5.42	ppm	100
48) Hexachlorocyclopentadiene	6.955	237	82620	10.54	ppm	98
49) 2,4,6-Trichlorophenol	7.104	196	49335	5.43	ppm	97
50) 2,4,5-Trichlorophenol	7.147	196	51888	5.18	ppm	95
52) 2-Chloronaphthalene	7.367	162	176861	5.54	ppm	97
53) Biphenyl	7.345	154	236367	5.51	ppm	99
54) 2-Nitroaniline	7.495	65	58157	5.00	ppm	94
55) Dimethylphthalate	7.752	163	202932	5.45	ppm	98
56) Acenaphthylene	7.912	152	294250	5.50	ppm	98
57) 2,6-Dinitrotoluene	7.827	165	41766	5.47	ppm	98
58) 3-Nitroaniline	8.051	138	52959	5.43	ppm	90
59) Acenaphthene	8.153	153	179730	5.32	ppm	97
60) 2,4-Dinitrophenol	8.196	184	21338	7.52	ppm	70
61) 4-Nitrophenol	8.287	109	27421	4.77	ppm	91
62) Dibenzofuran	8.394	168	242289	5.40	ppm	96
63) 2,4-Dinitrotoluene	8.383	165	54915	5.36	ppm	92
64) 2,3,4,6-Tetrachlorophenol	8.570	232	35231	4.98	ppm	99
65) Diethylphthalate	8.763	149	203624	5.37	ppm	98
66) Fluorene	8.886	166	202935	5.40	ppm	99
67) 4-Chlorophenyl-phenyle...	8.912	204	93024	5.50	ppm	97
68) 4-Nitroaniline	8.918	138	53989	5.29	ppm	96
70) 4,6-Dinitro-2-methylph...	8.971	198	18810	4.49	ppm	99
71) n-Nitrosodiphenylamine	9.084	169	136671	5.40	ppm	96
72) 1,2-Diphenylhydrazine	9.142	77	251739	5.53	ppm	99
74) 4-Bromophenyl-phenylether	9.640	248	48384	5.31	ppm	98
75) Hexachlorobenzene	9.699	284	52923	5.32	ppm	86
76) Pentachlorophenol	10.009	266	48339	8.71	ppm	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25931.D
Acq On : 13 May 2016 12:36 pm
Operator : ariellec
Sample : ic1209-5
Misc : op93693,e6p1209
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 13 13:27:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 13:18:38 2016
QLast Update : Fri May 13 13:18:38 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
77)	Phenanthrene	10.335	178	282865	5.39	ppm	99
78)	Anthracene	10.415	178	276916	5.32	ppm	99
79)	Carbazole	10.677	167	262809	5.36	ppm	100
80)	Di-n-butylphthalate	11.314	149	317486	5.15	ppm	99
81)	Fluoranthene	12.196	202	291046	5.22	ppm	98
82)	Octadecane	10.239	57	142306	5.25	ppm	98
84)	Pyrene	12.549	202	307149	5.39	ppm	100
86)	Butylbenzylphthalate	13.699	149	107629	4.29	ppm	90
87)	Butyl stearate	13.871	56	77932	4.35	ppm	99
88)	Benzo[a]anthracene	14.475	228	254234	5.11	ppm	100
89)	3,3'-Dichlorobenzidine	14.480	252	72587	4.24	ppm	96
90)	Chrysene	14.528	228	252612	5.22	ppm	97
91)	bis(2-Ethylhexyl)phtha...	14.662	149	132889	3.73	ppm	99
93)	Di-n-octylphthalate	15.652	149	173471	3.15	ppm	100
94)	Benzo[b]fluoranthene	16.074	252	227325	4.48	ppm	99
95)	Benzo[k]fluoranthene	16.112	252	270494	5.35	ppm	98
96)	Benzo[a]pyrene	16.518	252	200381	4.62	ppm	98
97)	Indeno[1,2,3-cd]pyrene	18.000	276	170566	3.81	ppm	94
98)	Dibenz(a,h)acridine	17.695	279	144479	3.61	ppm	98
99)	Dibenz[a,h]anthracene	18.042	278	211283	4.42	ppm	98
100)	7,12-Dimethylbenz(a)an...	16.080	256	100053	4.72	ppm	99
101)	Benzo[g,h,i]perylene	18.379	276	235491	4.91	ppm	97

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

7.6.87

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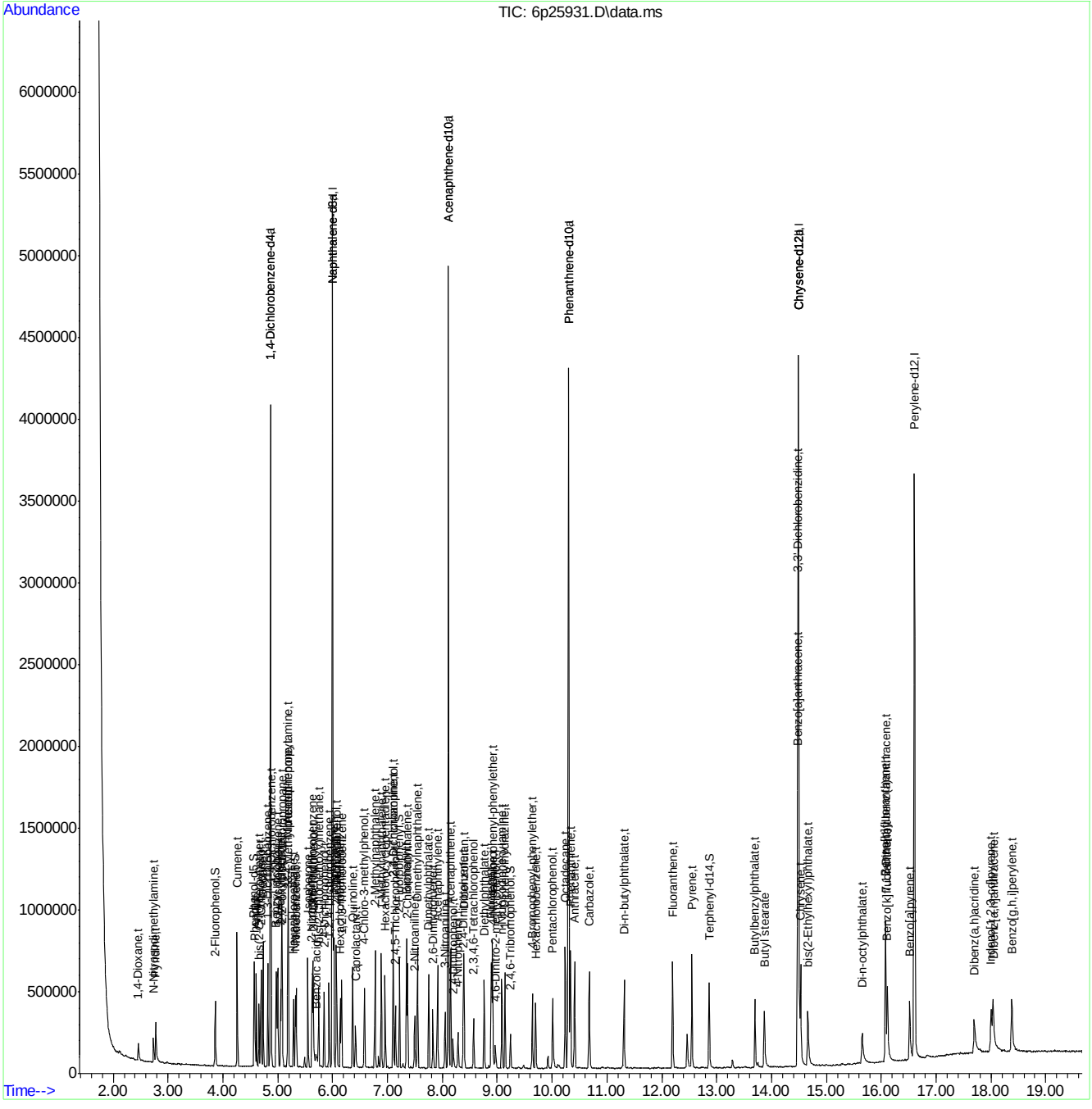
SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25931.D
Acq On : 13 May 2016 12:36 pm
Operator : ariellec
Sample : ic1209-5
Misc : op93693,e6p1209
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 13 13:27:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 13:18:38 2016
QLast Update : Fri May 13 13:18:38 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1210\
Data File : 6p25938.D
Acq On : 13 May 2016 2:45 pm
Operator : ariellec
Sample : ic1210-100
Misc : op93693,e6p1210
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 13 15:18:27 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 15:16:50 2016
QLast Update : Fri May 13 15:16:50 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.869	152	419681	40.00	ppm	0.00
24) Naphthalene-d8	5.992	136	1746969	40.00	ppm	0.00
47) Acenaphthene-d10	8.110	164	989027	40.00	ppm	0.00
69) Phenanthrene-d10	10.303	188	1651069	40.00	ppm	0.00
83) Chrysene-d12	14.491	240	1438382	40.00	ppm	0.00
92) Perylene-d12	16.598	264	1344005	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.869	152	419681	40.00	ppm	0.00
104) Acenaphthene-d10a	8.110	164	989027	40.00	ppm	0.00
106) Phenanthrene-d10a	10.303	188	1651069	40.00	ppm	0.00
110) Chrysene-d12a	14.491	240	1438382	40.00	ppm	0.00
112) Naphthalene-d8a	5.992	136	1746969	40.00	ppm	0.00
114) Chrysene-d12b	14.491	240	1438382	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
108) o-Terphenyl	10.950	230	2225093	100.00	ppm	0.00
Spiked Amount 50.000			Recovery	=	200.00%	
109) 1-Chlorooctadecane	12.148	57	1604050	100.00	ppm	0.00
Spiked Amount 50.000			Recovery	=	200.00%	
Target Compounds						Qvalue
103) Benzaldehyde	4.532	105	1057823	100.00	ppm	99
105) 1,2,4,5-Tetrachloroben...	6.971	216	1166821	100.00	ppm	99
107) Atrazine	9.945	215	448468	100.00	ppm	93
111) benzidine	12.469	184	1697006	100.00	ppm	99
113) Hydroquinone	6.425	110	1717366	100.00	ppm	96

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

7.6.88

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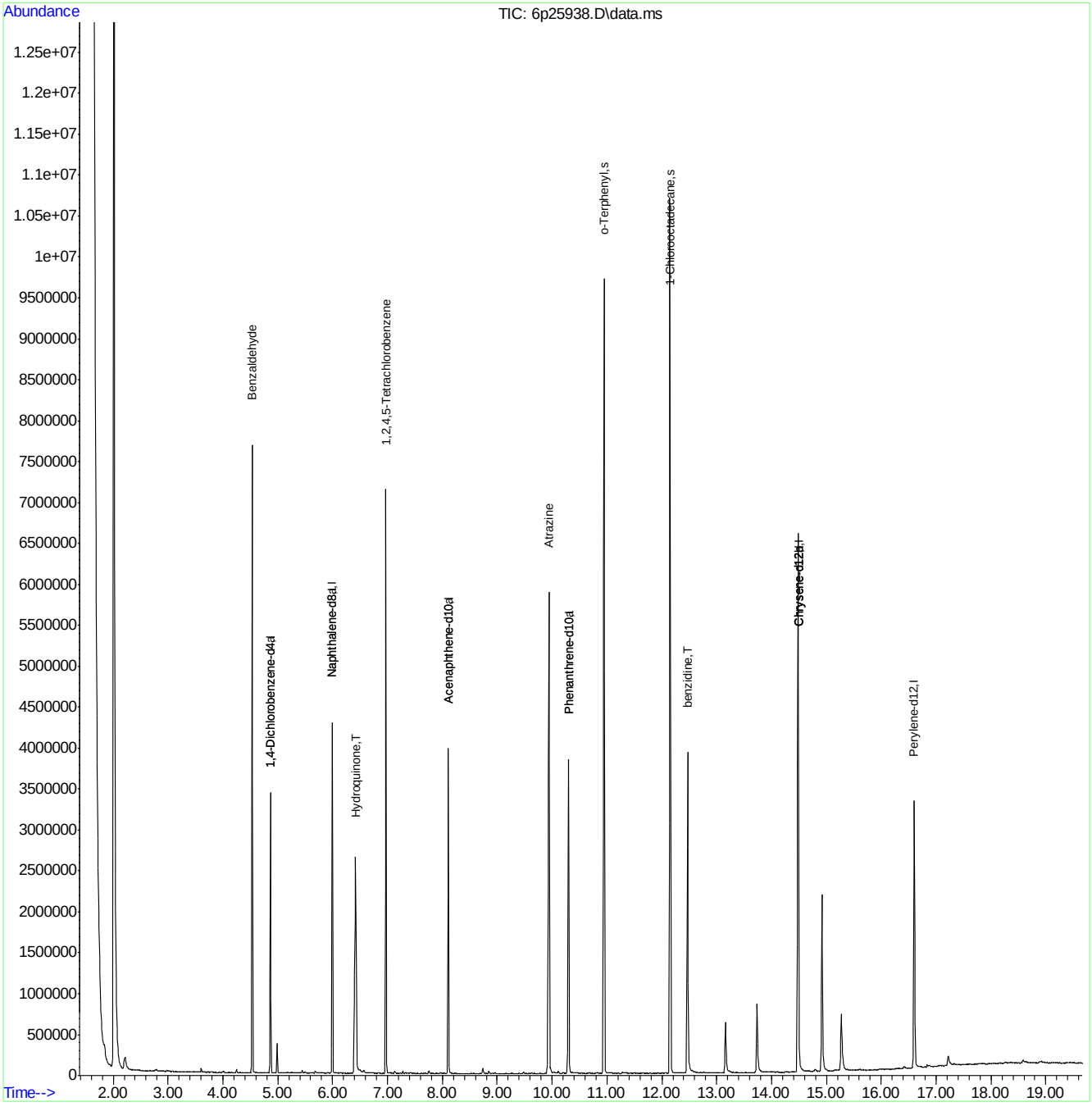
SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1210\
Data File : 6p25938.D
Acq On : 13 May 2016 2:45 pm
Operator : ariellec
Sample : ic1210-100
Misc : op93693,e6p1210
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 13 15:18:27 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 15:16:50 2016
QLast Update : Fri May 13 15:16:50 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1210\
Data File : 6p25939.D
Acq On : 13 May 2016 3:12 pm
Operator : ariellec
Sample : ic1210-80
Misc : op93693,e6p1210
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 13 15:38:28 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 15:37:51 2016
QLast Update : Fri May 13 15:37:51 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.864	152	462190	40.00	ppm	0.00
24) Naphthalene-d8	5.997	136	1917148	40.00	ppm	0.00
47) Acenaphthene-d10	8.110	164	1049211	40.00	ppm	0.00
69) Phenanthrene-d10	10.298	188	1748457	40.00	ppm	0.00
83) Chrysene-d12	14.486	240	1525130	40.00	ppm	0.00
92) Perylene-d12	16.598	264	1348351	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.864	152	462190	40.00	ppm	0.00
104) Acenaphthene-d10a	8.110	164	1049211	40.00	ppm	0.00
106) Phenanthrene-d10a	10.298	188	1748457	40.00	ppm	0.00
110) Chrysene-d12a	14.486	240	1525130	40.00	ppm	0.00
112) Naphthalene-d8a	5.997	136	1917148	40.00	ppm	0.00
114) Chrysene-d12b	14.486	240	1525130	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
108) o-Terphenyl	10.945	230	1883079	79.96	ppm	0.00
Spiked Amount 50.000			Recovery	=	159.92%	
109) 1-Chlorooctadecane	12.148	57	1336158	79.32	ppm	0.00
Spiked Amount 50.000			Recovery	=	158.64%	
Target Compounds						Qvalue
103) Benzaldehyde	4.532	105	1086762	86.13	ppm	99
105) 1,2,4,5-Tetrachloroben...	6.971	216	1023807	81.33	ppm	100
107) Atrazine	9.939	215	374355	79.41	ppm	89
111) benzidine	12.469	184	1461681	80.61	ppm	99
113) Hydroquinone	6.415	110	1450162	78.44	ppm	97

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

7.6.89

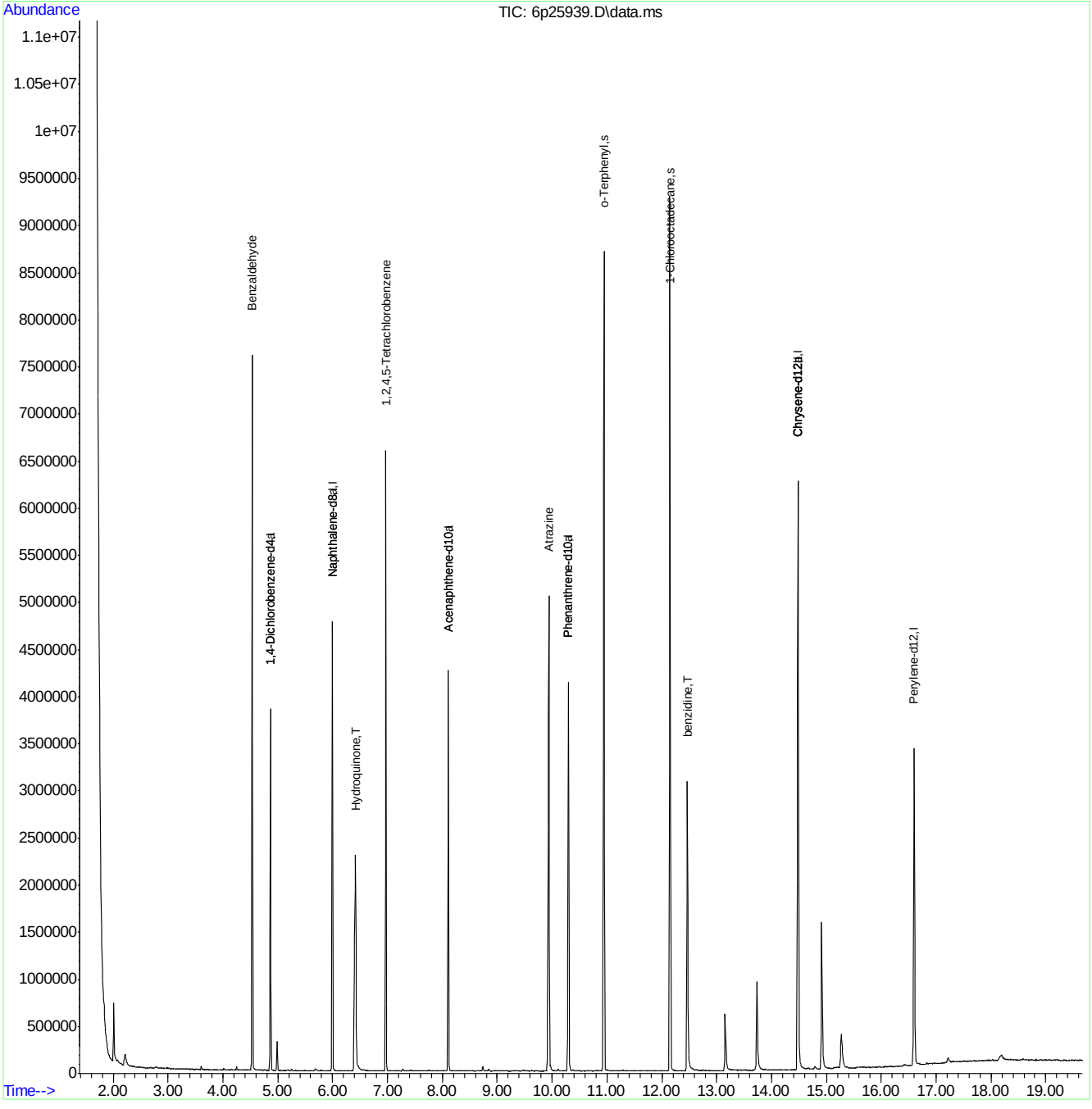
7

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1210\
Data File : 6p25939.D
Acq On : 13 May 2016 3:12 pm
Operator : ariellec
Sample : ic1210-80
Misc : op93693,e6p1210
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 13 15:38:28 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 15:37:51 2016
QLast Update : Fri May 13 15:37:51 2016
Response via : Initial Calibration



SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1210\
Data File : 6p25940.D
Acq On : 13 May 2016 3:40 pm
Operator : ariellec
Sample : icc1210-50
Misc : op93693,e6p1210
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 13 16:05:57 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 16:05:05 2016
QLast Update : Fri May 13 16:05:05 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.869	152	461004	40.00	ppm	0.00
24) Naphthalene-d8	5.997	136	1895979	40.00	ppm	0.00
47) Acenaphthene-d10	8.110	164	1058235	40.00	ppm	0.00
69) Phenanthrene-d10	10.298	188	1731490	40.00	ppm	0.00
83) Chrysene-d12	14.486	240	1536148	40.00	ppm	0.00
92) Perylene-d12	16.598	264	1384356	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.869	152	461004	40.00	ppm	0.00
104) Acenaphthene-d10a	8.110	164	1058235	40.00	ppm	0.00
106) Phenanthrene-d10a	10.298	188	1731490	40.00	ppm	0.00
110) Chrysene-d12a	14.486	240	1536148	40.00	ppm	0.00
112) Naphthalene-d8a	5.997	136	1895979	40.00	ppm	0.00
114) Chrysene-d12b	14.486	240	1536148	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
108) o-Terphenyl	10.945	230	1185250	50.54	ppm	0.00
Spiked Amount 50.000			Recovery	=	101.08%	
109) 1-Chlorooctadecane	12.148	57	850560	50.66	ppm	0.00
Spiked Amount 50.000			Recovery	=	101.32%	
Target Compounds						Qvalue
103) Benzaldehyde	4.532	105	682578	52.75	ppm	100
105) 1,2,4,5-Tetrachloroben...	6.971	216	636738	50.10	ppm	100
107) Atrazine	9.939	215	233497	50.01	ppm	100
111) benzidine	12.464	184	806349	45.94	ppm	100
113) Hydroquinone	6.409	110	892442	49.20	ppm	100

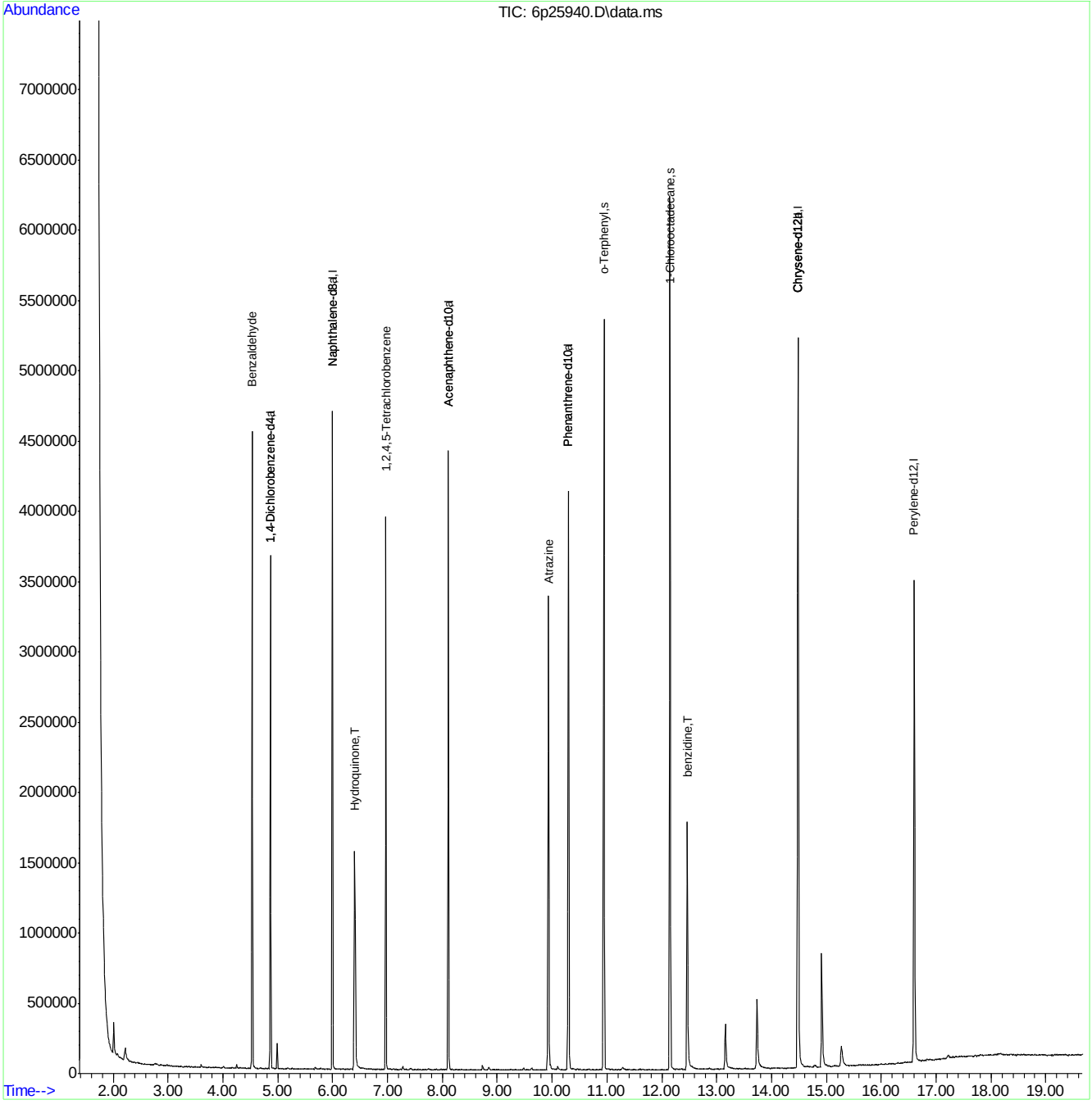
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1210\
Data File : 6p25940.D
Acq On : 13 May 2016 3:40 pm
Operator : ariellec
Sample : icc1210-50
Misc : op93693,e6p1210
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 13 16:05:57 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 16:05:05 2016
QLast Update : Fri May 13 16:05:05 2016
Response via : Initial Calibration



M6P1209.M Mon May 16 09:24:05 2016 ACLIMS Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1210\
Data File : 6p25941.D
Acq On : 13 May 2016 4:07 pm
Operator : ariellec
Sample : ic1210-25
Misc : op93693,e6p1210
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 16 07:50:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 16:05:05 2016
QLast Update : Mon May 16 07:50:18 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.864	152	475096	40.00	ppm	0.00
24) Naphthalene-d8	5.997	136	1977392	40.00	ppm	0.00
47) Acenaphthene-d10	8.110	164	1140388	40.00	ppm	0.00
69) Phenanthrene-d10	10.298	188	1920918	40.00	ppm	0.00
83) Chrysene-d12	14.486	240	1690696	40.00	ppm	0.00
92) Perylene-d12	16.598	264	1513827	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.864	152	475096	40.00	ppm	0.00
104) Acenaphthene-d10a	8.110	164	1140388	40.00	ppm	0.00
106) Phenanthrene-d10a	10.298	188	1920918	40.00	ppm	0.00
110) Chrysene-d12a	14.486	240	1690696	40.00	ppm	0.00
112) Naphthalene-d8a	5.997	136	1977392	40.00	ppm	0.00
114) Chrysene-d12b	14.486	240	1690696	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
108) o-Terphenyl	10.945	230	640994	24.73	ppm	0.00
Spiked Amount 50.000			Recovery	=	49.46%	
109) 1-Chlorooctadecane	12.143	57	460129	24.78	ppm	0.00
Spiked Amount 50.000			Recovery	=	49.56%	
Target Compounds						Qvalue
103) Benzaldehyde	4.532	105	350450	25.95	ppm	97
105) 1,2,4,5-Tetrachloroben...	6.966	216	338724	24.80	ppm	99
107) Atrazine	9.934	215	119887	23.58	ppm	97
111) benzidine	12.464	184	340384	19.02	ppm	99
113) Hydroquinone	6.399	110	475701	25.11	ppm	99

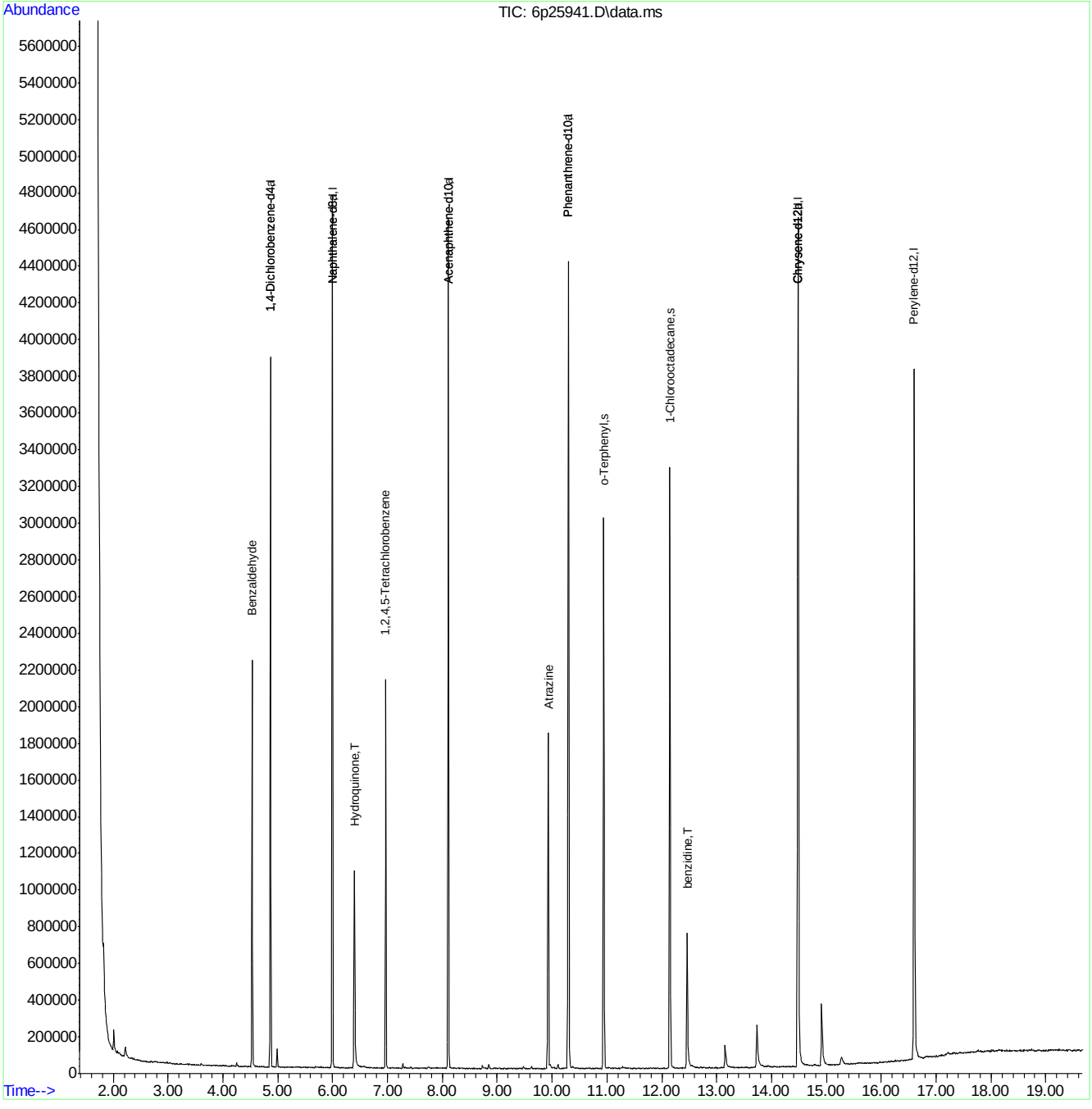
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1210\
Data File : 6p25941.D
Acq On : 13 May 2016 4:07 pm
Operator : ariellec
Sample : ic1210-25
Misc : op93693,e6p1210
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 16 07:50:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 16:05:05 2016
QLast Update : Mon May 16 07:50:18 2016
Response via : Initial Calibration



SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1210\
Data File : 6p25942.D
Acq On : 13 May 2016 4:35 pm
Operator : ariellec
Sample : ic1210-10
Misc : op93693,e6p1210
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 16 08:43:22 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuMon May 16 08:07:52 2016
QLast Update : Mon May 16 08:09:32 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.863	152	465631	40.00	ppm	0.00
24) Naphthalene-d8	5.997	136	1930671	40.00	ppm	0.00
47) Acenaphthene-d10	8.110	164	1121111	40.00	ppm	0.00
69) Phenanthrene-d10	10.298	188	1879952	40.00	ppm	0.00
83) Chrysene-d12	14.486	240	1659788	40.00	ppm	0.00
92) Perylene-d12	16.598	264	1460404	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.863	152	465631	40.00	ppm	0.00
104) Acenaphthene-d10a	8.110	164	1121111	40.00	ppm	0.00
106) Phenanthrene-d10a	10.298	188	1879952	40.00	ppm	0.00
110) Chrysene-d12a	14.486	240	1659788	40.00	ppm	0.00
112) Naphthalene-d8a	5.997	136	1930671	40.00	ppm	0.00
114) Chrysene-d12b	14.486	240	1659788	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
108) o-Terphenyl	10.939	230	248497	9.58	ppm	0.00
Spiked Amount 50.000			Recovery	=	19.16%	
109) 1-Chlorooctadecane	12.143	57	170846	9.87	ppm	0.00
Spiked Amount 50.000			Recovery	=	19.74%	
Target Compounds						Qvalue
103) Benzaldehyde	4.532	105	134735	9.61	ppm	97
105) 1,2,4,5-Tetrachloroben...	6.965	216	132450	9.53	ppm	98
107) Atrazine	9.929	215	41537	8.85	ppm	91
111) benzidine	12.459	184	58361	4.94	ppm	97
113) Hydroquinone	6.393	110	172179	9.43	ppm	99

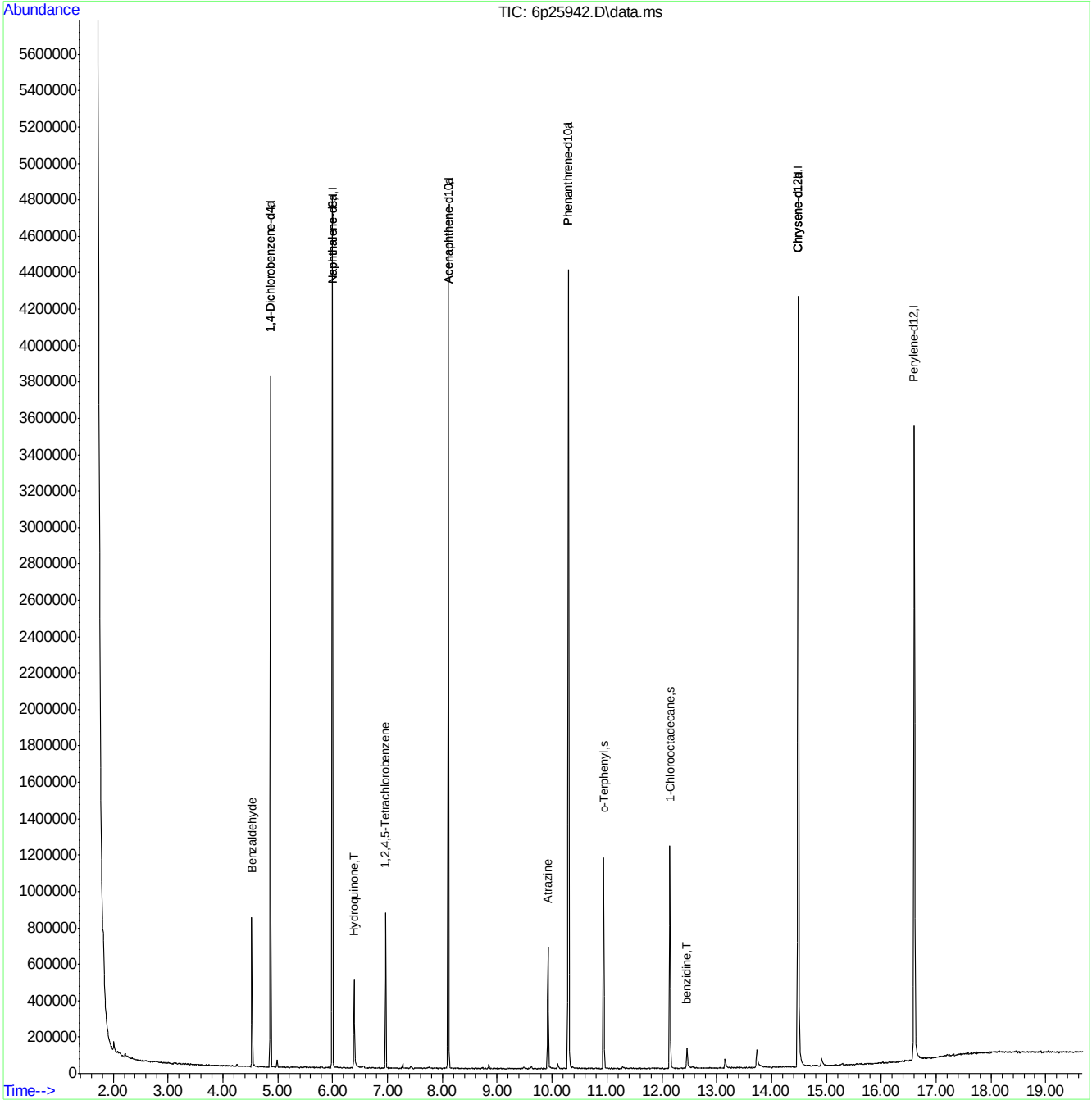
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1210\
Data File : 6p25942.D
Acq On : 13 May 2016 4:35 pm
Operator : ariellec
Sample : ic1210-10
Misc : op93693,e6p1210
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 16 08:43:22 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuMon May 16 08:07:52 2016
QLast Update : Mon May 16 08:09:32 2016
Response via : Initial Calibration



M6P1209.M Mon May 16 09:24:59 2016 ACLIMS Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1210\
Data File : 6p25943.D
Acq On : 13 May 2016 5:02 pm
Operator : ariellec
Sample : ic1210-5
Misc : op93693,e6p1210
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 16 08:44:04 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuMon May 16 08:09:32 2016
QLast Update : Mon May 16 08:09:32 2016
Response via : Initial Calibration

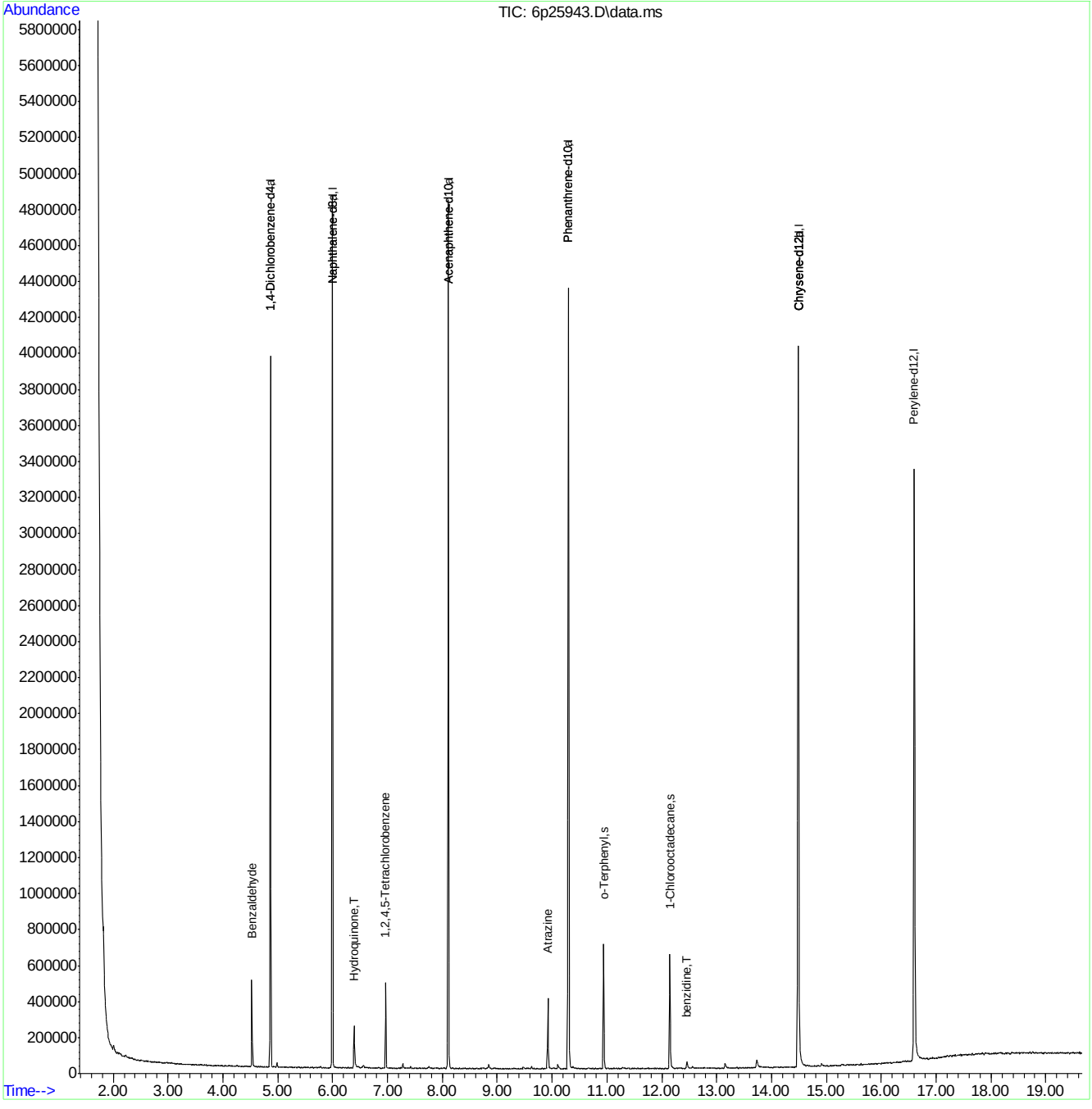
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.864	152	473744	40.00	ppm	0.00
24) Naphthalene-d8	5.997	136	1963288	40.00	ppm	0.00
47) Acenaphthene-d10	8.110	164	1137987	40.00	ppm	0.00
69) Phenanthrene-d10	10.298	188	1872695	40.00	ppm	0.00
83) Chrysene-d12	14.491	240	1602621	40.00	ppm	0.00
92) Perylene-d12	16.598	264	1391117	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.864	152	473744	40.00	ppm	0.00
104) Acenaphthene-d10a	8.110	164	1137987	40.00	ppm	0.00
106) Phenanthrene-d10a	10.298	188	1872695	40.00	ppm	0.00
110) Chrysene-d12a	14.491	240	1602621	40.00	ppm	0.00
112) Naphthalene-d8a	5.997	136	1963288	40.00	ppm	0.00
114) Chrysene-d12b	14.491	240	1602621	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
108) o-Terphenyl	10.940	230	139527	5.40	ppm	0.00
Spiked Amount 50.000			Recovery	=	10.80%	
109) 1-Chlorooctadecane	12.143	57	90671	5.26	ppm	0.00
Spiked Amount 50.000			Recovery	=	10.52%	
Target Compounds						Qvalue
103) Benzaldehyde	4.532	105	77237	5.41	ppm	98
105) 1,2,4,5-Tetrachloroben...	6.966	216	73782	5.23	ppm	99
107) Atrazine	9.923	215	23289	4.98	ppm	85
111) benzidine	12.459	184	19373	1.70	ppm	89
113) Hydroquinone	6.393	110	97163	5.23	ppm	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1210\
Data File : 6p25943.D
Acq On : 13 May 2016 5:02 pm
Operator : ariellec
Sample : ic1210-5
Misc : op93693,e6p1210
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 16 08:44:04 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuMon May 16 08:09:32 2016
QLast Update : Mon May 16 08:09:32 2016
Response via : Initial Calibration



SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1210\
Data File : 6p25944.D
Acq On : 13 May 2016 5:30 pm
Operator : ariellec
Sample : ic1210-2
Misc : op93693,e6p1210
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 16 08:45:17 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 16:05:05 2016
QLast Update : Fri May 13 16:05:05 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.869	152	443371	40.00	ppm	0.00
24) Naphthalene-d8	5.997	136	1848747	40.00	ppm	0.00
47) Acenaphthene-d10	8.110	164	1056117	40.00	ppm	0.00
69) Phenanthrene-d10	10.298	188	1732123	40.00	ppm	0.00
83) Chrysene-d12	14.486	240	1501702	40.00	ppm	0.00
92) Perylene-d12	16.598	264	1322482	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.869	152	443371	40.00	ppm	0.00
104) Acenaphthene-d10a	8.110	164	1056117	40.00	ppm	0.00
106) Phenanthrene-d10a	10.298	188	1732123	40.00	ppm	0.00
110) Chrysene-d12a	14.486	240	1501702	40.00	ppm	0.00
112) Naphthalene-d8a	5.997	136	1848747	40.00	ppm	0.00
114) Chrysene-d12b	14.486	240	1501702	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
108) o-Terphenyl	10.939	230	48615	2.07	ppm	0.00
Spiked Amount 50.000			Recovery	=	4.14%	
109) 1-Chlorooctadecane	12.143	57	28190	1.68	ppm	0.00
Spiked Amount 50.000			Recovery	=	3.36%	
Target Compounds						Qvalue
103) Benzaldehyde	4.532	105	28853	2.32	ppm	91
105) 1,2,4,5-Tetrachloroben...	6.965	216	27762	2.19	ppm	98
107) Atrazine	9.923	215	8080	1.73	ppm	93
111) benzidine	12.458	184	3900	0.23	ppm	91
113) Hydroquinone	6.393	110	34534	1.95	ppm	95

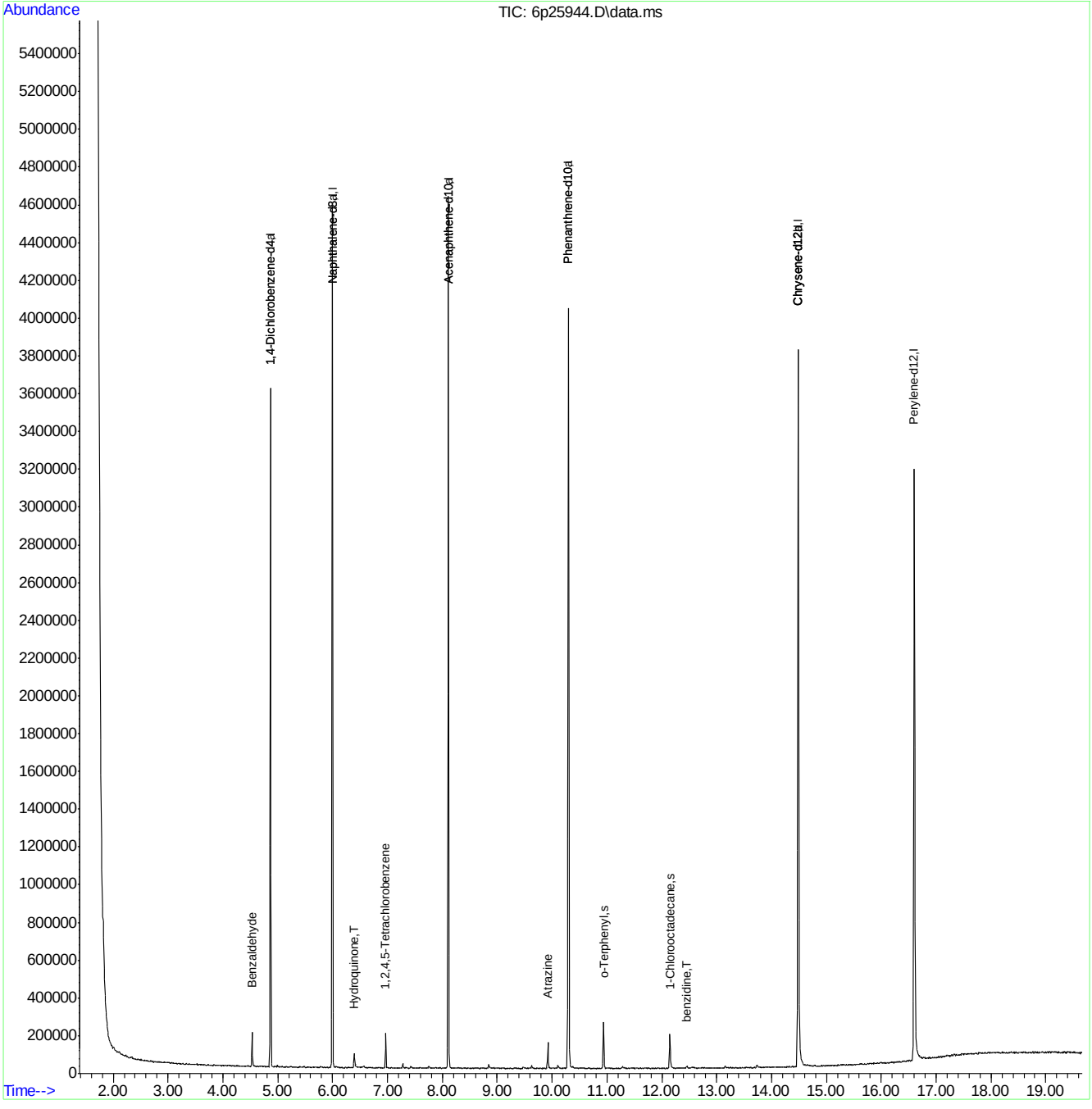
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1210\
Data File : 6p25944.D
Acq On : 13 May 2016 5:30 pm
Operator : ariellec
Sample : ic1210-2
Misc : op93693,e6p1210
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 16 08:45:17 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 16:05:05 2016
QLast Update : Fri May 13 16:05:05 2016
Response via : Initial Calibration



SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1210\
Data File : 6p25945.D
Acq On : 13 May 2016 5:57 pm
Operator : ariellec
Sample : ic1210-1
Misc : op93693,e6p1210
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 16 08:46:26 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuMon May 16 08:09:32 2016
QLast Update : Mon May 16 08:09:32 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.864	152	425429	40.00	ppm	0.00
24) Naphthalene-d8	5.997	136	1758530	40.00	ppm	0.00
47) Acenaphthene-d10	8.110	164	1026934	40.00	ppm	0.00
69) Phenanthrene-d10	10.298	188	1692990	40.00	ppm	0.00
83) Chrysene-d12	14.491	240	1431450	40.00	ppm	0.00
92) Perylene-d12	16.604	264	1254231	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.864	152	425429	40.00	ppm	0.00
104) Acenaphthene-d10a	8.110	164	1026934	40.00	ppm	0.00
106) Phenanthrene-d10a	10.298	188	1692990	40.00	ppm	0.00
110) Chrysene-d12a	14.491	240	1431450	40.00	ppm	0.00
112) Naphthalene-d8a	5.997	136	1758530	40.00	ppm	0.00
114) Chrysene-d12b	14.491	240	1431450	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
108) o-Terphenyl	10.940	230	24122	1.03	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.06%	
109) 1-Chlorooctadecane	12.143	57	13738	0.88	ppm	0.00
Spiked Amount 50.000			Recovery	=	1.76%	
Target Compounds						Qvalue
103) Benzaldehyde	4.532	105	14111	1.10	ppm	99
105) 1,2,4,5-Tetrachloroben...	6.966	216	13689	1.08	ppm	89
107) Atrazine	9.923	215	4006	0.95	ppm	86
111) benzidine	12.459	184	2008	0.20	ppm	80
113) Hydroquinone	6.393	110	16180	0.97	ppm	97

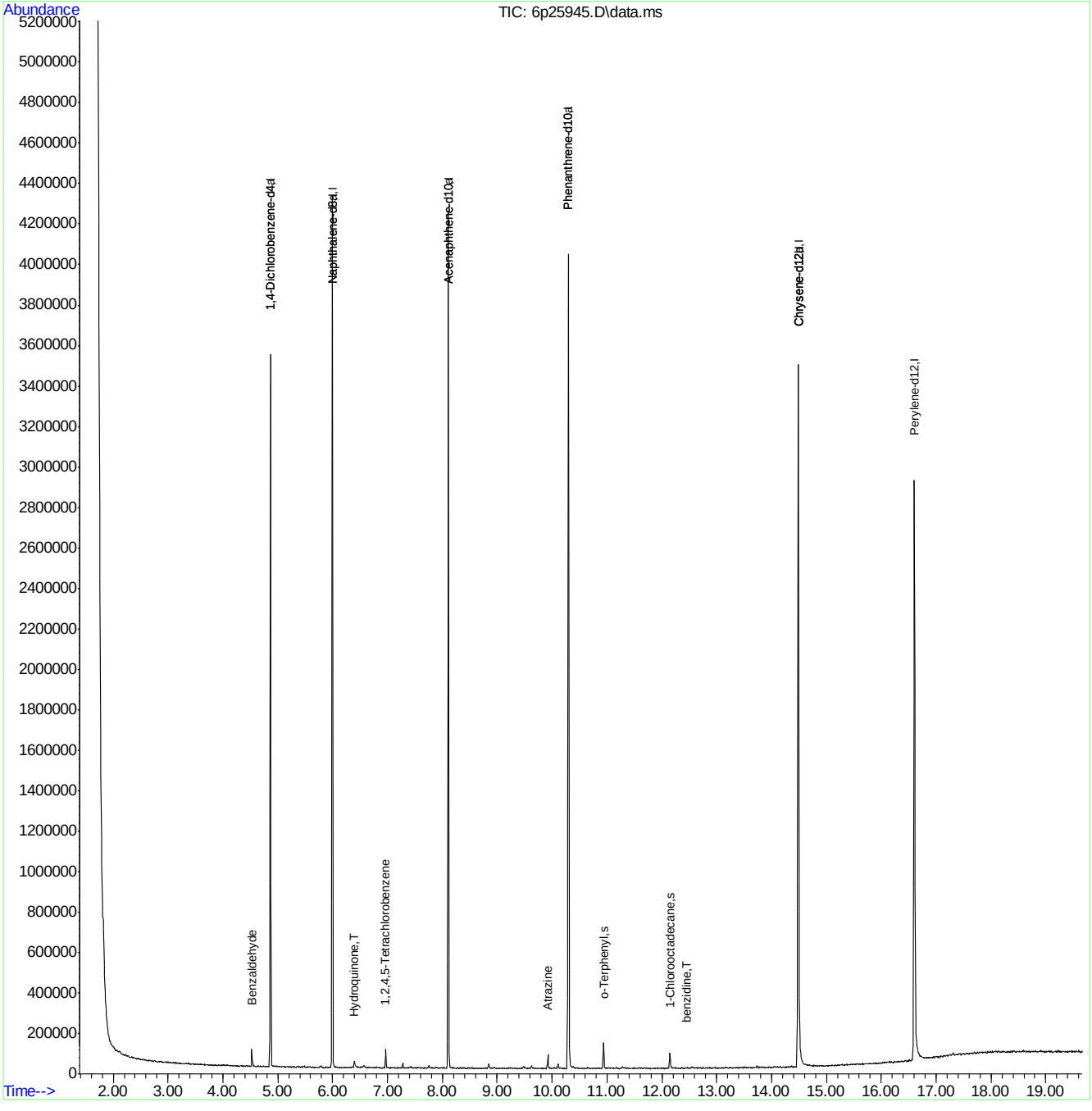
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1210\
Data File : 6p25945.D
Acq On : 13 May 2016 5:57 pm
Operator : ariellec
Sample : ic1210-1
Misc : op93693,e6p1210
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 16 08:46:26 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuMon May 16 08:09:32 2016
QLast Update : Mon May 16 08:09:32 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1210\
Data File : 6p25950.D
Acq On : 13 May 2016 8:14 pm
Operator : ariellec
Sample : icv1210-50
Misc : op93693,e6p1210
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 16 11:53:16 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 16:05:05 2016
QLast Update : Fri May 13 16:05:05 2016
Response via : Initial Calibration

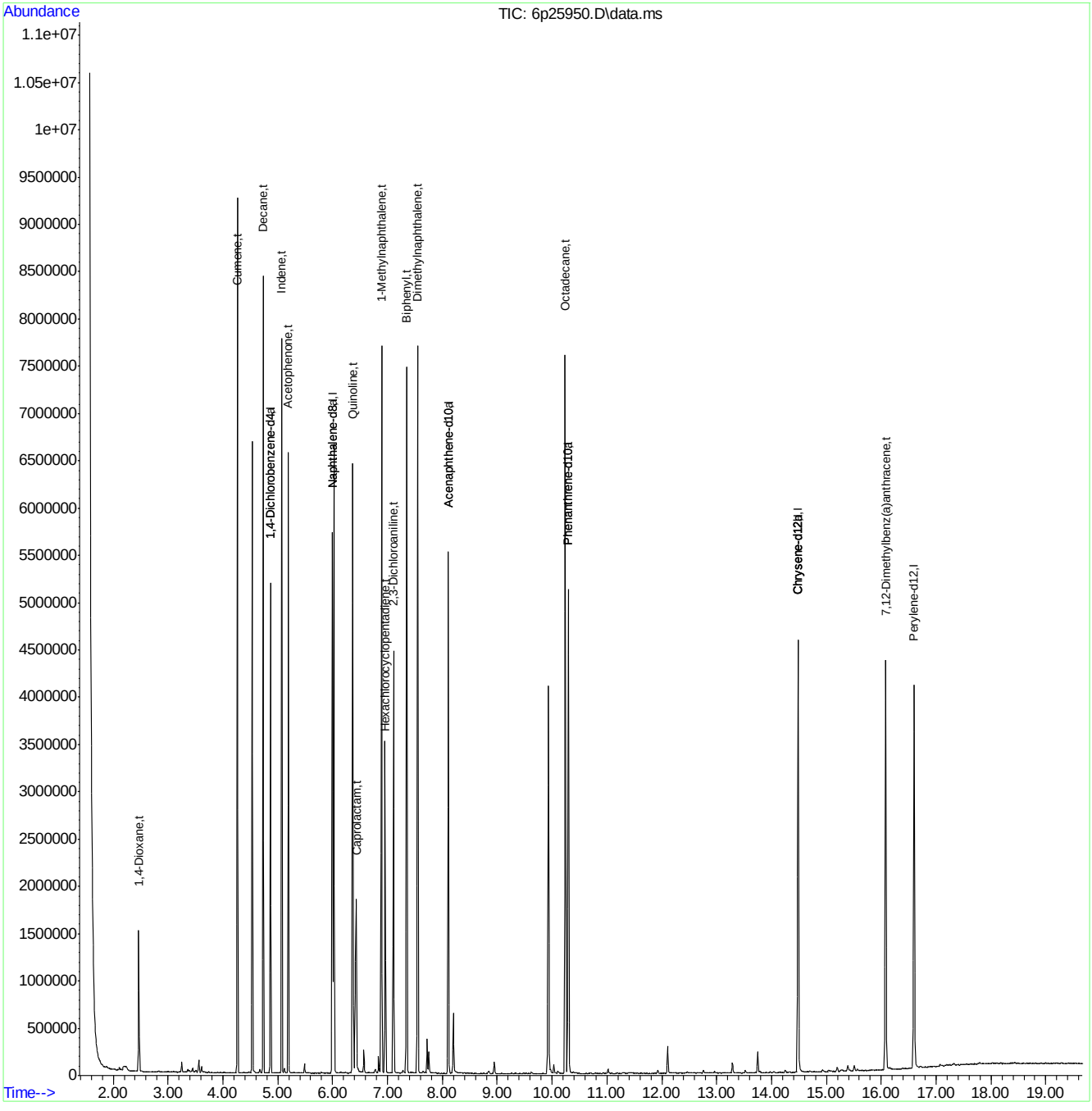
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.869	152	609564	40.00	ppm	0.00
24) Naphthalene-d8	5.997	136	2508037	40.00	ppm	0.00
47) Acenaphthene-d10	8.110	164	1354963	40.00	ppm	0.00
69) Phenanthrene-d10	10.298	188	2192668	40.00	ppm	0.00
83) Chrysene-d12	14.486	240	1829789	40.00	ppm	0.00
92) Perylene-d12	16.598	264	1596608	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.869	152	609564	40.00	ppm	0.00
104) Acenaphthene-d10a	8.110	164	1354963	40.00	ppm	0.00
106) Phenanthrene-d10a	10.298	188	2192668	40.00	ppm	0.00
110) Chrysene-d12a	14.486	240	1829789	40.00	ppm	0.00
112) Naphthalene-d8a	5.997	136	2508037	40.00	ppm	0.00
114) Chrysene-d12b	14.486	240	1829789	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
108) o-Terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
109) 1-Chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.467	88	485226	44.83	ppm	96
6) Indene	5.072	116	1986252	47.90	ppm	100
7) Cumene	4.264	105	2704946	45.97	ppm	98
13) Decane	4.735	43	1222399	40.31	ppm	95
18) Acetophenone	5.190	105	1549761	45.28	ppm	99
27) Quinoline	6.367	129	2124400	45.42	ppm	99
40) 2,3-Dichloroaniline	7.110	161	897379	41.12	ppm	97
41) Caprolactam	6.431	55	489835	41.31	ppm	96
45) 1-Methylnaphthalene	6.891	141	1778171	45.58	ppm	99
46) Dimethylnaphthalene	7.549	156	1818447	45.70	ppm	98
48) Hexachlorocyclopentadiene	6.960	237	473243	49.86	ppm	97
53) Biphenyl	7.345	154	2475881	47.66	ppm	99
82) Octadecane	10.239	57	1489822	45.43	ppm	98
100) 7,12-Dimethylbenz(a)an...	16.080	256	1036703	49.16	ppm	95

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1210\
Data File : 6p25950.D
Acq On : 13 May 2016 8:14 pm
Operator : ariellec
Sample : icv1210-50
Misc : op93693,e6p1210
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 16 11:53:16 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 16:05:05 2016
QLast Update : Fri May 13 16:05:05 2016
Response via : Initial Calibration



SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1210\
Data File : 6p25950a.D
Acq On : 13 May 2016 8:14 pm
Operator : ariellec
Sample : icv1210-50
Misc : op93693,e6p1210
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 16 11:52:53 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 16:05:05 2016
QLast Update : Fri May 13 16:05:05 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.869	152	609564	40.00	ppm	0.00
24) Naphthalene-d8	5.997	136	2508037	40.00	ppm	0.00
47) Acenaphthene-d10	8.110	164	1354963	40.00	ppm	0.00
69) Phenanthrene-d10	10.298	188	2192668	40.00	ppm	0.00
83) Chrysene-d12	14.486	240	1829789	40.00	ppm	0.00
92) Perylene-d12	16.598	264	1596608	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.869	152	609564	40.00	ppm	0.00
104) Acenaphthene-d10a	8.110	164	1354963	40.00	ppm	0.00
106) Phenanthrene-d10a	10.298	188	2192668	40.00	ppm	0.00
110) Chrysene-d12a	14.486	240	1829789	40.00	ppm	0.00
112) Naphthalene-d8a	5.997	136	2508037	40.00	ppm	0.00
114) Chrysene-d12b	14.486	240	1829789	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
108) o-Terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
109) 1-Chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
103) Benzaldehyde	4.532	105	922158	53.89	ppm	100
107) Atrazine	9.939	215	305250	51.63	ppm	93

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

7.6.97

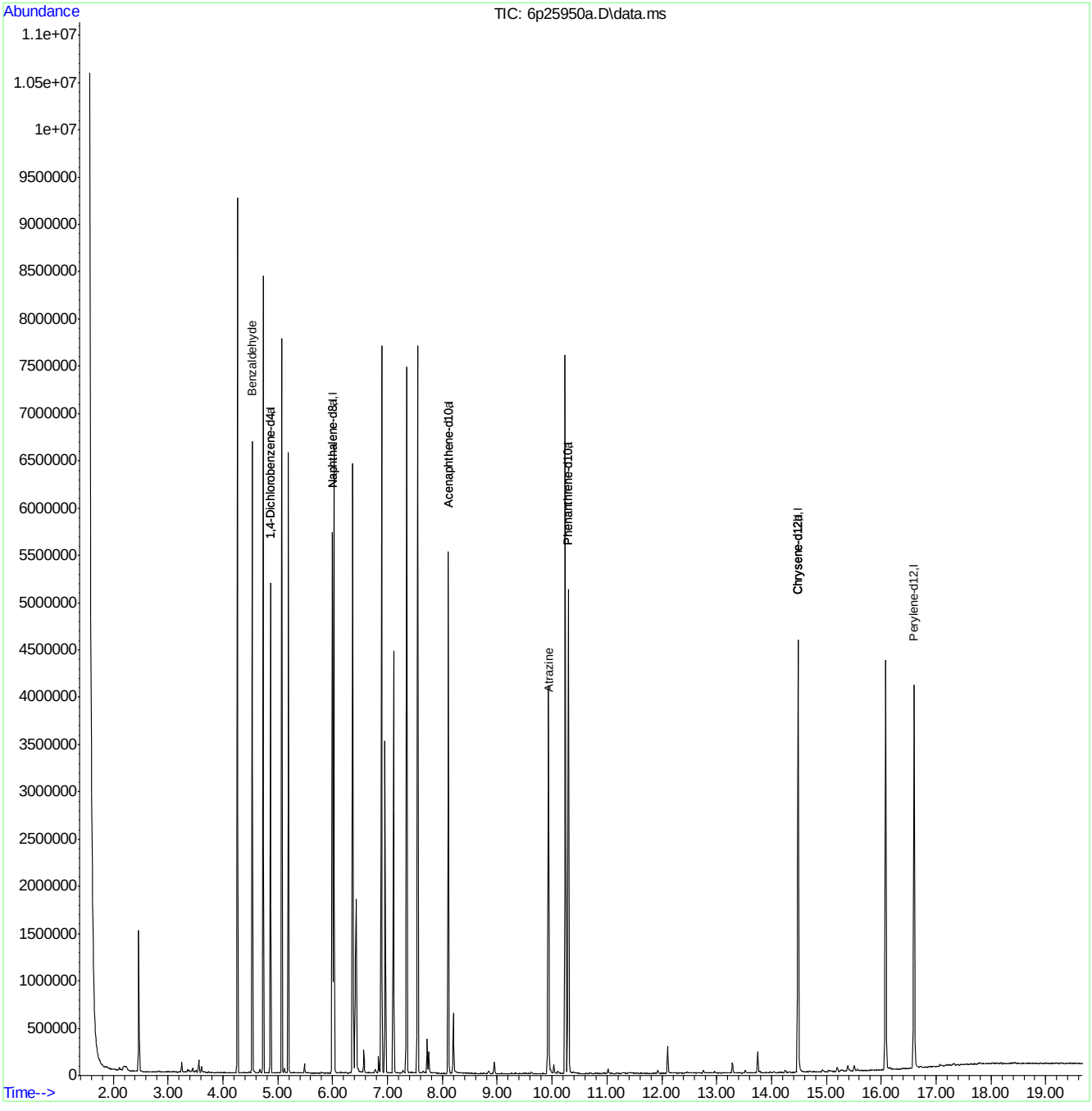
7

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1210\
Data File : 6p25950a.D
Acq On : 13 May 2016 8:14 pm
Operator : ariellec
Sample : icv1210-50
Misc : op93693,e6p1210
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 16 11:52:53 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 16:05:05 2016
QLast Update : Fri May 13 16:05:05 2016
Response via : Initial Calibration



M6P1209.M Mon May 16 17:29:28 2016 ACLIMS Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1210\
Data File : 6p25951.D
Acq On : 13 May 2016 8:42 pm
Operator : ariellec
Sample : icv1210-50
Misc : op93693,e6p1210
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 16 12:05:32 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 16:05:05 2016
QLast Update : Fri May 13 16:05:05 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.869	152	567146	40.00	ppm	0.00
24) Naphthalene-d8	5.997	136	2326025	40.00	ppm	0.00
47) Acenaphthene-d10	8.110	164	1348429	40.00	ppm	0.00
69) Phenanthrene-d10	10.298	188	2280734	40.00	ppm	0.00
83) Chrysene-d12	14.486	240	2145860	40.00	ppm	0.00
92) Perylene-d12	16.598	264	1892922	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.869	152	567146	40.00	ppm	0.00
104) Acenaphthene-d10a	8.110	164	1348429	40.00	ppm	0.00
106) Phenanthrene-d10a	10.298	188	2280734	40.00	ppm	0.00
110) Chrysene-d12a	14.486	240	2145860	40.00	ppm	0.00
112) Naphthalene-d8a	5.997	136	2326025	40.00	ppm	0.00
114) Chrysene-d12b	14.486	240	2145860	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
108) o-Terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
109) 1-Chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
89) 3,3'-Dichlorobenzidine	14.480	252	997296	45.62	ppm	99

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

7.6.98

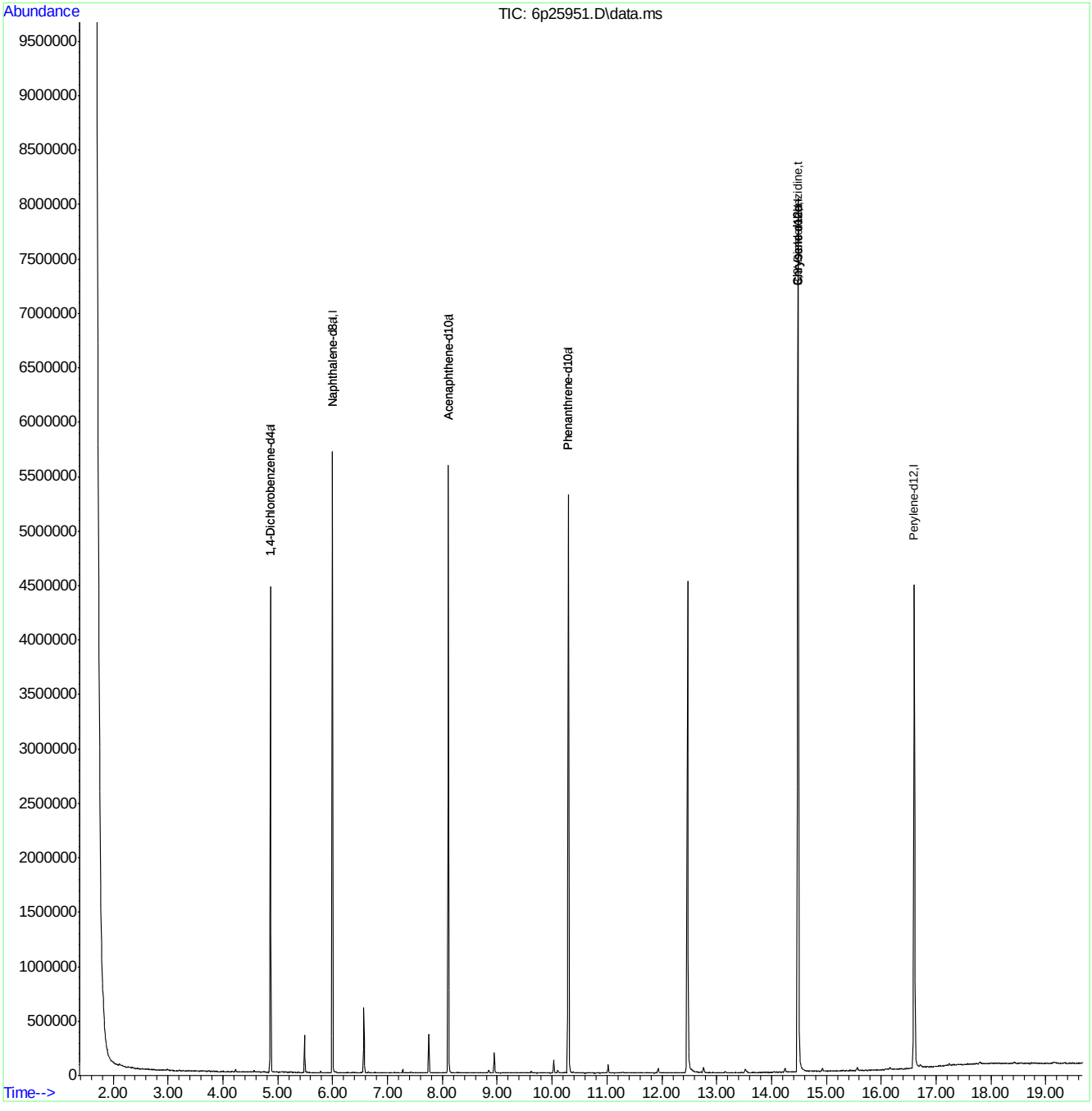
7

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1210\
Data File : 6p25951.D
Acq On : 13 May 2016 8:42 pm
Operator : ariellec
Sample : icv1210-50
Misc : op93693,e6p1210
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 16 12:05:32 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 16:05:05 2016
QLast Update : Fri May 13 16:05:05 2016
Response via : Initial Calibration



SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1210\
Data File : 6p25952.D
Acq On : 13 May 2016 9:09 pm
Operator : ariellec
Sample : icv1210-50
Misc : op93693,e6p1210
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 16 09:31:30 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 16:05:05 2016
QLast Update : Fri May 13 16:05:05 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.869	152	507488	40.00	ppm	0.00
24) Naphthalene-d8	5.997	136	2045948	40.00	ppm	0.00
47) Acenaphthene-d10	8.110	164	1170605	40.00	ppm	0.00
69) Phenanthrene-d10	10.298	188	1904024	40.00	ppm	0.00
83) Chrysene-d12	14.486	240	1655657	40.00	ppm	0.00
92) Perylene-d12	16.598	264	1440019	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.869	152	507488	40.00	ppm	0.00
104) Acenaphthene-d10a	8.110	164	1170605	40.00	ppm	0.00
106) Phenanthrene-d10a	10.298	188	1904024	40.00	ppm	0.00
110) Chrysene-d12a	14.486	240	1655657	40.00	ppm	0.00
112) Naphthalene-d8a	5.997	136	2045948	40.00	ppm	0.00
114) Chrysene-d12b	14.486	240	1655657	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
108) o-Terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
109) 1-Chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
Target Compounds						Qvalue
113) Hydroquinone	6.409	110	945058	48.28	ppm	99

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

7.6.99

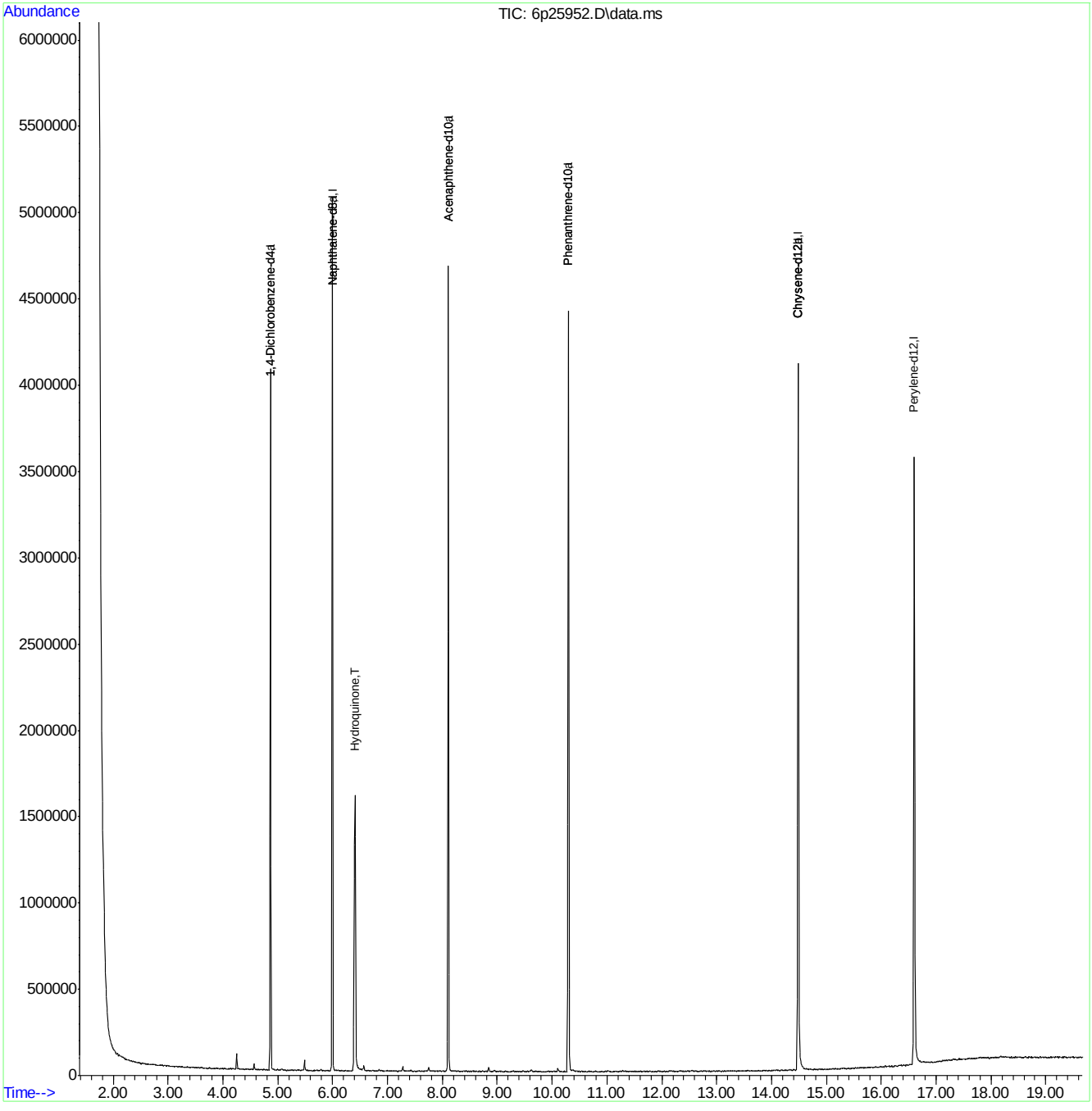
7

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1210\
Data File : 6p25952.D
Acq On : 13 May 2016 9:09 pm
Operator : ariellec
Sample : icv1210-50
Misc : op93693,e6p1210
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 16 09:31:30 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 16:05:05 2016
QLast Update : Fri May 13 16:05:05 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1211\
Data File : 6p25954.D
Acq On : 16 May 2016 9:15 am
Operator : ariellec
Sample : ICV1209-50
Misc : op93693,e6p1211
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 16 09:40:19 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuMon May 16 09:26:46 2016
QLast Update : Mon May 16 09:26:46 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.869	152	621318	40.00	ppm	0.00
24) Naphthalene-d8	5.997	136	2361613	40.00	ppm	0.00
47) Acenaphthene-d10	8.110	164	1310114	40.00	ppm	0.00
69) Phenanthrene-d10	10.303	188	2139687	40.00	ppm	0.00
83) Chrysene-d12	14.491	240	1830697	40.00	ppm	0.00
92) Perylene-d12	16.604	264	1580840	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.869	152	621318	40.00	ppm	0.00
104) Acenaphthene-d10a	8.110	164	1310114	40.00	ppm	0.00
106) Phenanthrene-d10a	10.303	188	2139687	40.00	ppm	0.00
110) Chrysene-d12a	14.491	240	1830697	40.00	ppm	0.00
112) Naphthalene-d8a	5.997	136	2361613	40.00	ppm	0.00
114) Chrysene-d12b	14.491	240	1830697	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.000	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
108) o-Terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
109) 1-Chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
Target Compounds						Qvalue
9) Phenol	4.612	94	1416137	42.61	ppm	81
12) 2-Chlorophenol	4.714	128	1095098	45.45	ppm	96
19) 2-Methylphenol	5.077	108	1003078	43.73	ppm	99
21) 3&4-Methylphenol	5.206	108	1059066	43.77	ppm	99
29) 2-Nitrophenol	5.634	139	552497	47.56	ppm	81
30) 2,4-Dimethylphenol	5.671	107	1150191	53.31	ppm	96
31) Benzoic acid	5.815	105	771411	53.58	ppm	90
33) 2,4-Dichlorophenol	5.864	162	819578	49.46	ppm	98
34) 2,6-Dichlorophenol	6.083	162	802418	50.35	ppm	99
43) 4-Chloro-3-methylphenol	6.607	107	983206	47.96	ppm	98
49) 2,4,6-Trichlorophenol	7.120	196	580357	54.55	ppm	98
50) 2,4,5-Trichlorophenol	7.163	196	577655	49.48	ppm	98
60) 2,4-Dinitrophenol	8.217	184	195992	46.92	ppm #	82
61) 4-Nitrophenol	8.351	109	368161	54.89	ppm	96
64) 2,3,4,6-Tetrachlorophenol	8.586	232	452873	54.73	ppm	98
70) 4,6-Dinitro-2-methylph...	8.987	198	310808	47.68	ppm	97
76) Pentachlorophenol	10.025	266	340173	50.16	ppm	98

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1211\
Data File : 6p25954.D
Acq On : 16 May 2016 9:15 am
Operator : ariellec
Sample : ICV1209-50
Misc : op93693,e6p1211
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 16 09:40:19 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuMon May 16 09:26:46 2016
QLast Update : Mon May 16 09:26:46 2016
Response via : Initial Calibration

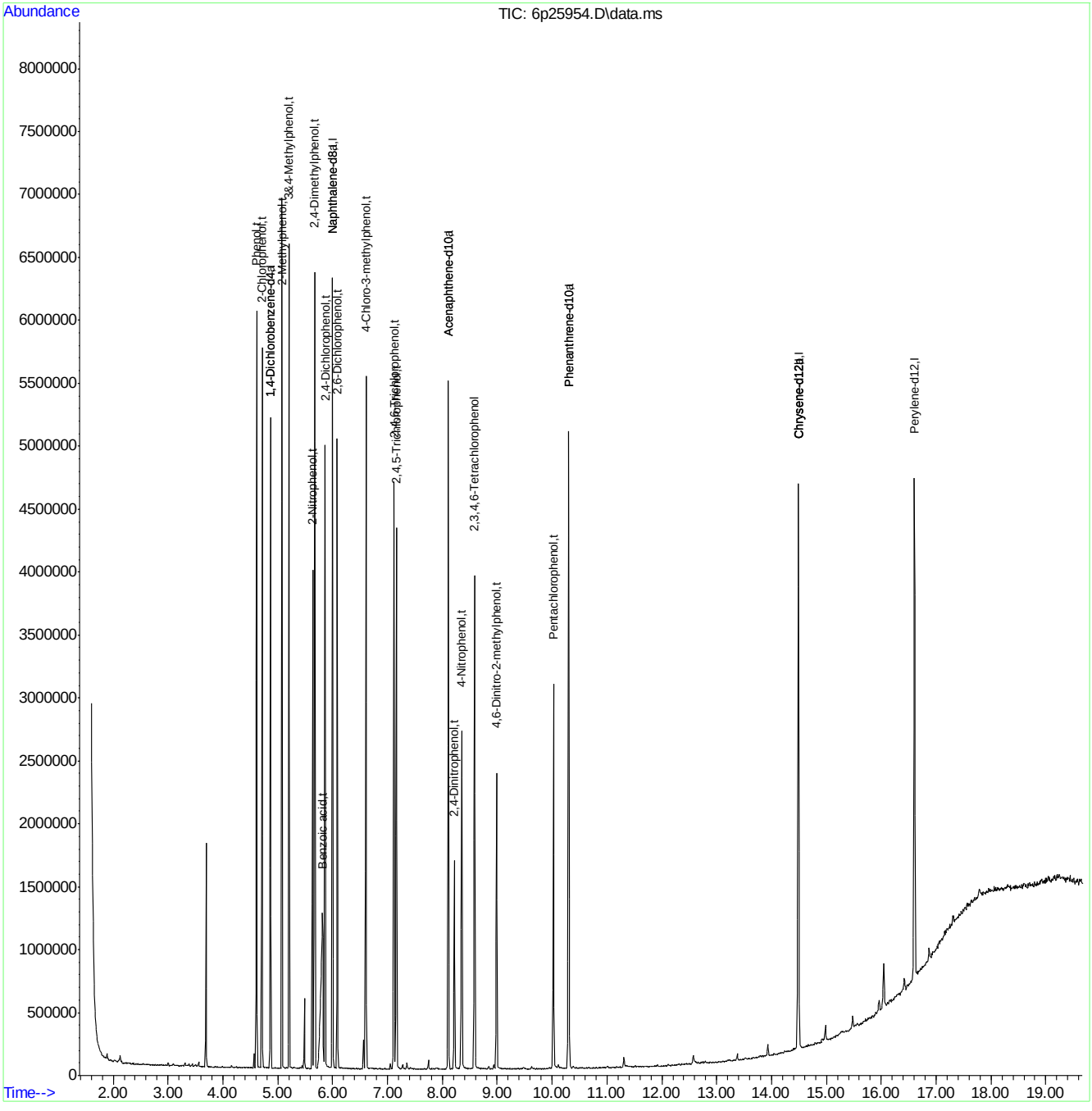
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1211\
Data File : 6p25954.D
Acq On : 16 May 2016 9:15 am
Operator : ariellec
Sample : ICV1209-50
Misc : op93693,e6p1211
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 16 09:40:19 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuMon May 16 09:26:46 2016
QLast Update : Mon May 16 09:26:46 2016
Response via : Initial Calibration



M6P1209.M Mon May 16 10:09:09 2016 ACLIMS Page: 3

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1211\
Data File : 6p25955.D
Acq On : 16 May 2016 9:42 am
Operator : ariellec
Sample : ICV1209-50
Misc : op93693,e6p1211
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 16 10:05:23 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuMon May 16 09:26:46 2016
QLast Update : Mon May 16 09:26:46 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.874	152	547414	40.00	ppm	0.00
24) Naphthalene-d8	5.997	136	2275940	40.00	ppm	0.00
47) Acenaphthene-d10	8.110	164	1291420	40.00	ppm	0.00
69) Phenanthrene-d10	10.298	188	2155241	40.00	ppm	0.00
83) Chrysene-d12	14.491	240	1897297	40.00	ppm	0.00
92) Perylene-d12	16.598	264	1098100	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.874	152	547414	40.00	ppm	0.00
104) Acenaphthene-d10a	8.110	164	1291420	40.00	ppm	0.00
106) Phenanthrene-d10a	10.298	188	2155241	40.00	ppm	0.00
110) Chrysene-d12a	14.491	240	1897297	40.00	ppm	0.00
112) Naphthalene-d8a	5.997	136	2275940	40.00	ppm	0.00
114) Chrysene-d12b	14.491	240	1897297	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.000	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
108) o-Terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
109) 1-Chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
Target Compounds						Qvalue
10) Aniline	4.639	93	1358598	40.91	ppm	99
16) Benzyl alcohol	5.003	108	685368	47.24	ppm	98
39) 4-Chloroaniline	6.083	127	1084615	41.41	ppm	96
44) 2-Methylnaphthalene	6.773	141	1653297	47.97	ppm	96
54) 2-Nitroaniline	7.522	65	625855	46.61	ppm	98
58) 3-Nitroaniline	8.083	138	473168	42.06	ppm	95
62) Dibenzofuran	8.399	168	2573051	49.66	ppm	96
68) 4-Nitroaniline	8.961	138	483911	41.07	ppm	96
79) Carbazole	10.699	167	2757536	47.30	ppm	99

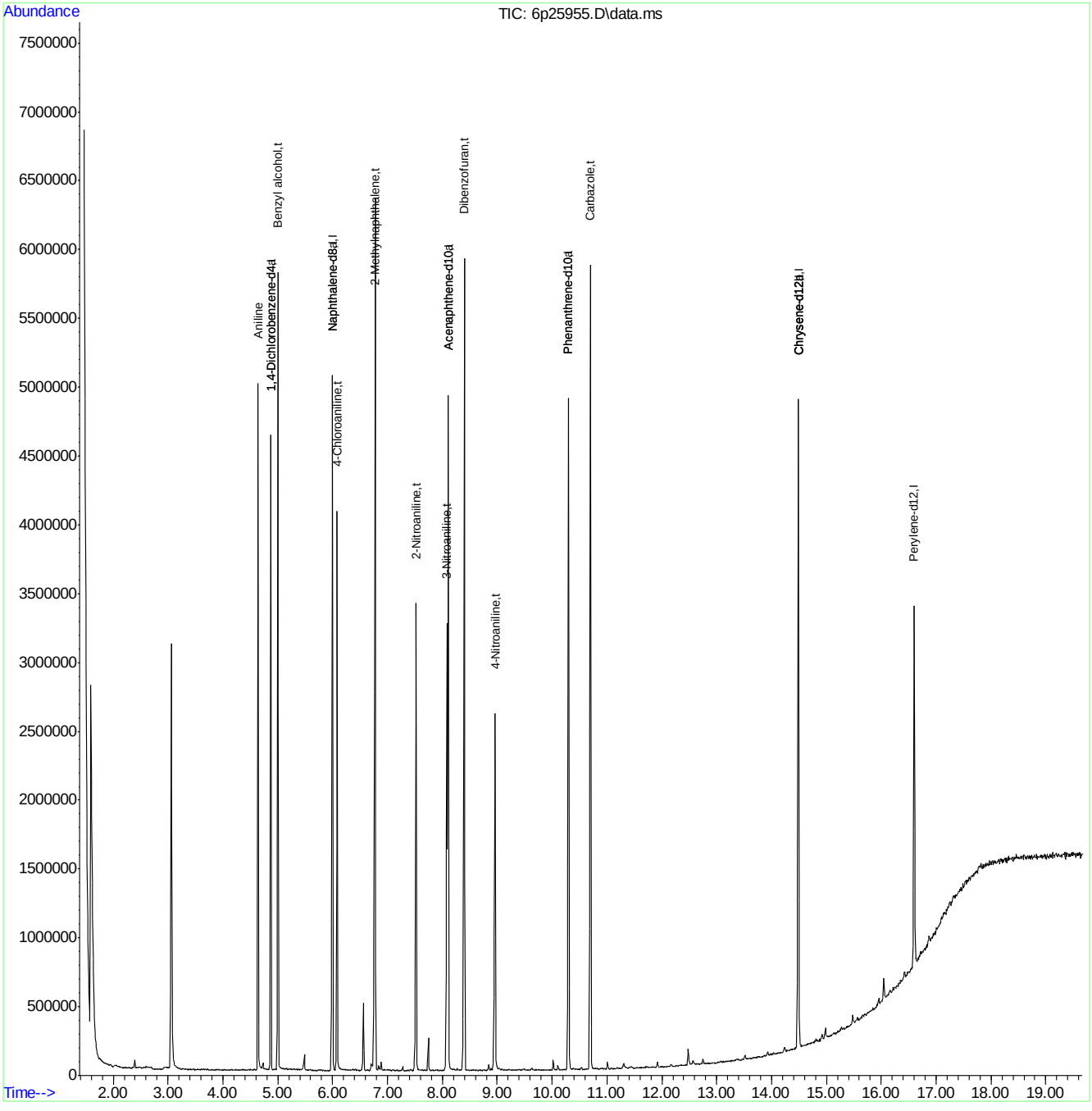
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1211\
Data File : 6p25955.D
Acq On : 16 May 2016 9:42 am
Operator : ariellec
Sample : ICV1209-50
Misc : op93693,e6p1211
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 16 10:05:23 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuMon May 16 09:26:46 2016
QLast Update : Mon May 16 09:26:46 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1212\
Data File : 6p25959.D
Acq On : 16 May 2016 11:13 am
Operator : ariellec
Sample : icv1209-50
Misc : op93693,e6p1212
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 16 11:36:44 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuMon May 16 09:26:46 2016
QLast Update : Mon May 16 09:26:46 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.858	152	593990	40.00	ppm	-0.01
24) Naphthalene-d8	5.987	136	2309344	40.00	ppm	-0.01
47) Acenaphthene-d10	8.099	164	1311541	40.00	ppm	-0.01
69) Phenanthrene-d10	10.292	188	2126146	40.00	ppm	-0.01
83) Chrysene-d12	14.480	240	1853981	40.00	ppm	-0.01
92) Perylene-d12	16.593	264	1644750	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4a	4.858	152	593990	40.00	ppm	-0.01
104) Acenaphthene-d10a	8.099	164	1311541	40.00	ppm	-0.01
106) Phenanthrene-d10a	10.292	188	2126146	40.00	ppm	0.00
110) Chrysene-d12a	14.480	240	1853981	40.00	ppm	0.00
112) Naphthalene-d8a	5.987	136	2309344	40.00	ppm	-0.01
114) Chrysene-d12b	14.480	240	1853981	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.885	112	988660	43.68	ppm	0.03
Spiked Amount 50.000			Recovery = 87.36%			
8) Phenol-d5	4.591	99	1208281	40.78	ppm	0.02
Spiked Amount 50.000			Recovery = 81.56%			
25) Nitrobenzene-d5	5.323	82	1166541	45.30	ppm	0.00
Spiked Amount 50.000			Recovery = 90.60%			
51) 2-Fluorobiphenyl	7.211	172	2004890	47.42	ppm	0.00
Spiked Amount 50.000			Recovery = 94.84%			
73) 2,4,6-Tribromophenol	9.239	330	203600	38.21	ppm	0.00
Spiked Amount 50.000			Recovery = 76.42%			
85) Terphenyl-d14	12.854	244	1792964	46.16	ppm	-0.01
Spiked Amount 50.000			Recovery = 92.32%			
108) o-Terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
109) 1-Chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

Target Compounds Qvalue

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

7.6.102

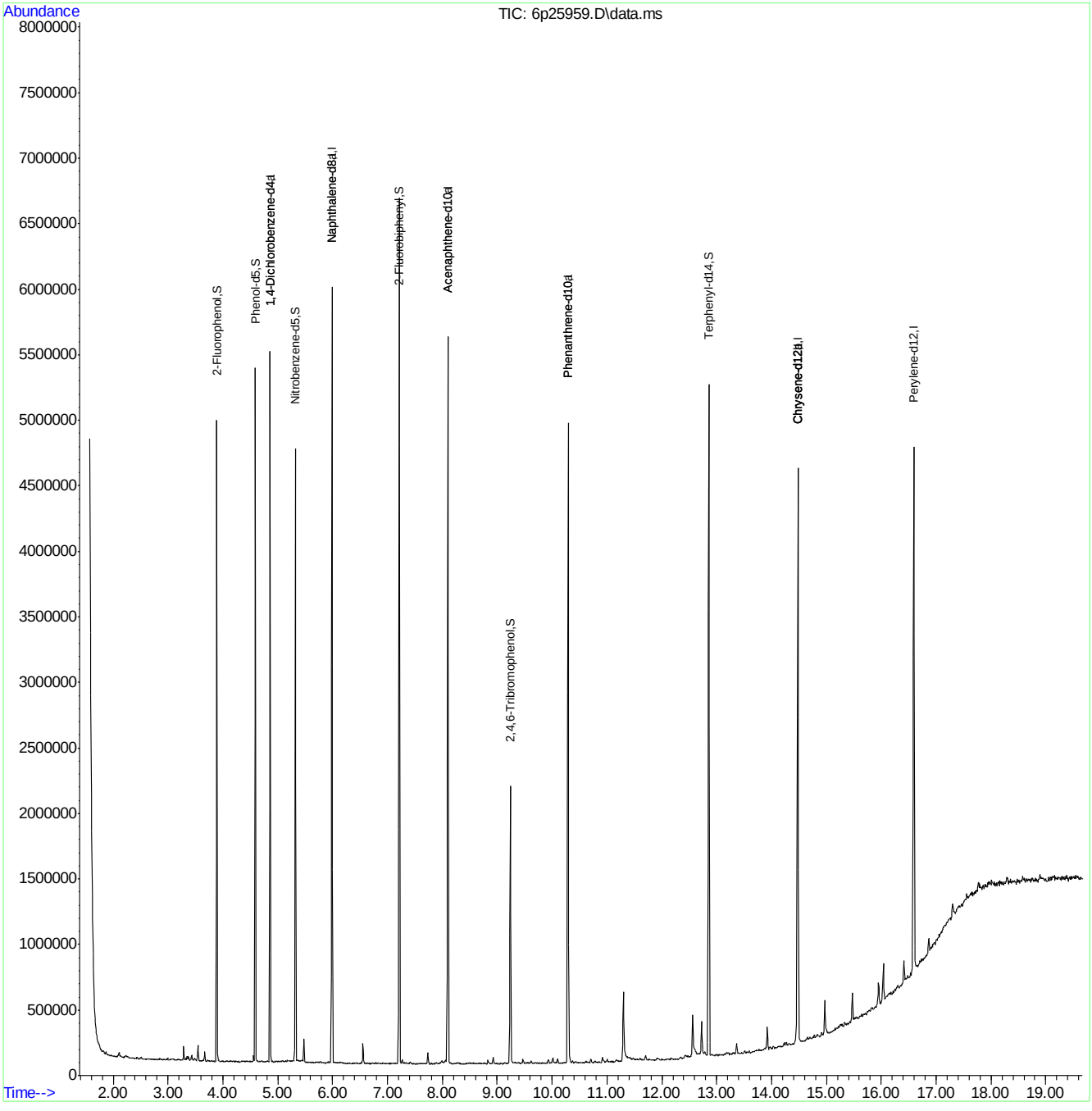
7

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1212\
Data File : 6p25959.D
Acq On : 16 May 2016 11:13 am
Operator : ariellec
Sample : icv1209-50
Misc : op93693,e6p1212
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 16 11:36:44 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuMon May 16 09:26:46 2016
QLast Update : Mon May 16 09:26:46 2016
Response via : Initial Calibration



SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1212\
Data File : 6p25960.D
Acq On : 16 May 2016 11:40 am
Operator : ariellec
Sample : icv1209-50
Misc : op93693,e6p1212
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 16 12:10:49 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuMon May 16 09:26:46 2016
QLast Update : Mon May 16 09:26:46 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.864	152	518609	40.00	ppm	0.00
24) Naphthalene-d8	5.992	136	2031947	40.00	ppm	0.00
47) Acenaphthene-d10	8.099	164	1135484	40.00	ppm	-0.01
69) Phenanthrene-d10	10.292	188	1841762	40.00	ppm	-0.01
83) Chrysene-d12	14.486	240	1532336	40.00	ppm	0.00
92) Perylene-d12	16.593	264	1434652	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4a	4.864	152	518609	40.00	ppm	0.00
104) Acenaphthene-d10a	8.099	164	1135484	40.00	ppm	-0.01
106) Phenanthrene-d10a	10.292	188	1841762	40.00	ppm	0.00
110) Chrysene-d12a	14.486	240	1532336	40.00	ppm	0.00
112) Naphthalene-d8a	5.992	136	2031947	40.00	ppm	0.00
114) Chrysene-d12b	14.486	240	1532336	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
108) o-Terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
109) 1-Chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
Target Compounds						Qvalue
4) N-Nitrosodimethylamine	2.778	74	676265	48.57	ppm	95
11) bis(2-Chloroethyl)ether	4.660	93	984892	49.96	ppm	95
14) 1,3-Dichlorobenzene	4.815	146	1063748	50.53	ppm	99
15) 1,4-Dichlorobenzene	4.874	146	1074571	50.36	ppm	99
17) 1,2-Dichlorobenzene	4.997	146	1012385	50.10	ppm	97
20) 2,2'-oxybis(1-Chloropr...	5.077	121	320520	45.42	ppm #	78
22) n-Nitroso-di-n-propyla...	5.201	70	780181	44.93	ppm	98
23) Hexachloroethane	5.281	201	346029	54.42	ppm #	81
26) Nitrobenzene	5.340	77	1153827	48.76	ppm	100
28) Isophorone	5.575	82	2019626	50.29	ppm	98
32) bis(2-Chloroethoxy)met...	5.751	93	1079437	47.56	ppm	100
36) 1,2,4-Trichlorobenzene	5.928	180	828060	55.20	ppm	98
38) Naphthalene	6.014	128	2885387	50.33	ppm	100
42) Hexachlorobutadiene	6.126	225	455565	59.47	ppm	99
52) 2-Chloronaphthalene	7.361	162	1675421	51.70	ppm	99
55) Dimethylphthalate	7.773	163	1917292	50.71	ppm	99
56) Acenaphthylene	7.907	152	2663618	49.03	ppm	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1212\
Data File : 6p25960.D
Acq On : 16 May 2016 11:40 am
Operator : ariellec
Sample : icv1209-50
Misc : op93693,e6p1212
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 16 12:10:49 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuMon May 16 09:26:46 2016
QLast Update : Mon May 16 09:26:46 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
57)	2,6-Dinitrotoluene	7.837	165	419790	54.17 ppm	96
59)	Acenaphthene	8.148	153	1741530	50.83 ppm	99
63)	2,4-Dinitrotoluene	8.394	165	535645	51.47 ppm	75
65)	Diethylphthalate	8.779	149	1931483	50.17 ppm	98
66)	Fluorene	8.886	166	1924393	50.45 ppm	99
67)	4-Chlorophenyl-phenyle...	8.902	204	911119	53.12 ppm	98
71)	n-Nitrosodiphenylamine	9.084	169	1356999	52.74 ppm	99
72)	1,2-Diphenylhydrazine	9.137	77	2195735	47.45 ppm	99
74)	4-Bromophenyl-phenylether	9.635	248	490612	52.96 ppm	98
75)	Hexachlorobenzene	9.688	284	483417	47.79 ppm	92
77)	Phenanthrene	10.330	178	2701713	50.59 ppm	99
78)	Anthracene	10.410	178	2675837	50.57 ppm	100
80)	Di-n-butylphthalate	11.319	149	3165826	50.51 ppm	100
81)	Fluoranthene	12.191	202	2833371	49.95 ppm	97
84)	Pyrene	12.544	202	2970135	57.14 ppm	100
86)	Butylbenzylphthalate	13.705	149	1324183	57.84 ppm	100
88)	Benzo[a]anthracene	14.470	228	2476493	54.44 ppm	100
90)	Chrysene	14.523	228	2392090	54.26 ppm	100
91)	bis(2-Ethylhexyl)phtha...	14.657	149	1834646	55.64 ppm	99
93)	Di-n-octylphthalate	15.652	149	3025552	55.66 ppm	97
94)	Benzo[b]fluoranthene	16.074	252	2343984	51.66 ppm	95
95)	Benzo[k]fluoranthene	16.117	252	2414737	53.61 ppm	96
96)	Benzo[a]pyrene	16.518	252	2252456	58.08 ppm	97
97)	Indeno[1,2,3-cd]pyrene	18.000	276	2255028	54.91 ppm	95
99)	Dibenz[a,h]anthracene	18.037	278	2271031	53.25 ppm	98
101)	Benzo[g,h,i]perylene	18.385	276	2255036	52.79 ppm	98

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

7.6.103

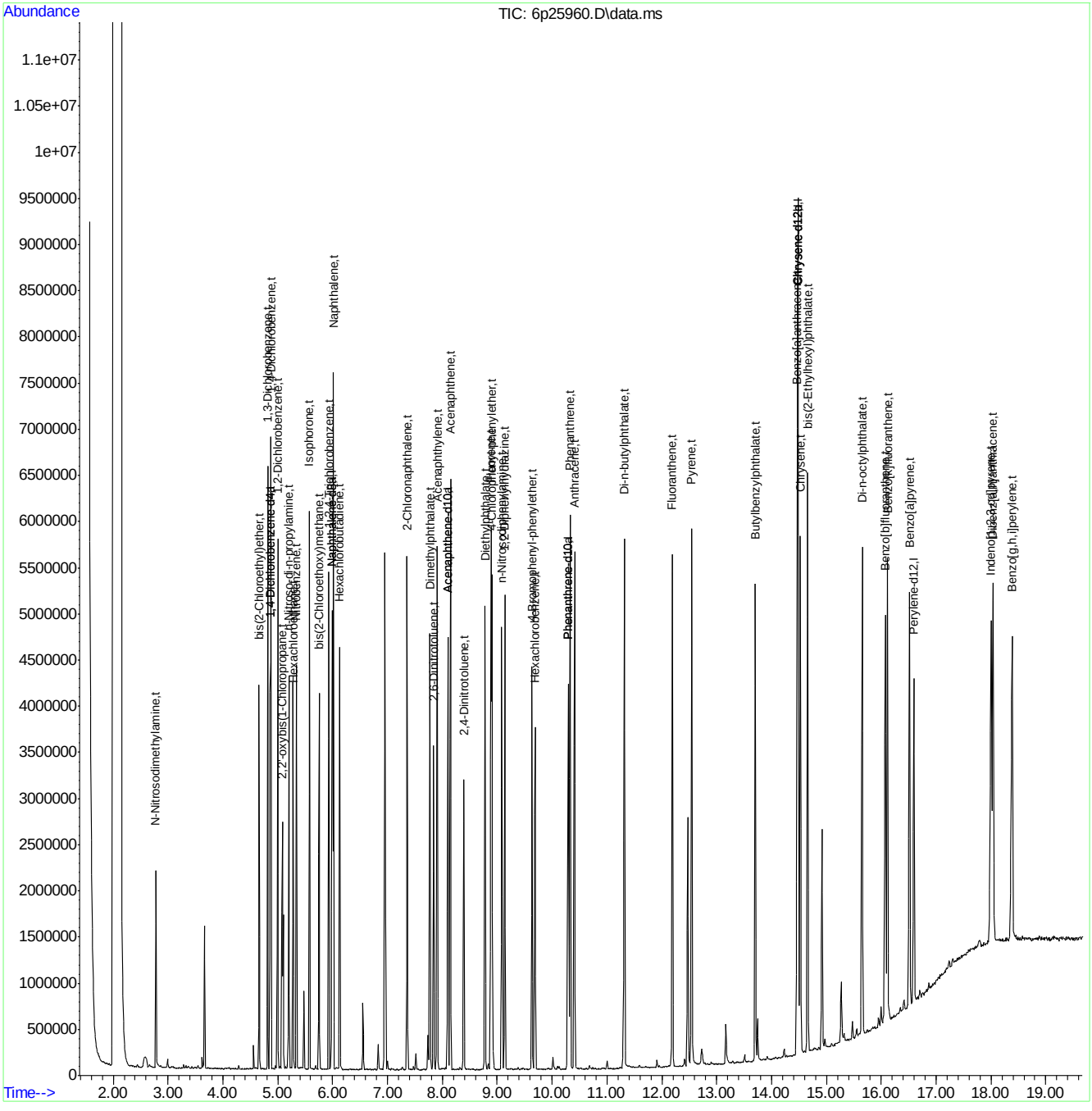
7

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1212\
Data File : 6p25960.D
Acq On : 16 May 2016 11:40 am
Operator : ariellec
Sample : icv1209-50
Misc : op93693,e6p1212
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 16 12:10:49 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuMon May 16 09:26:46 2016
QLast Update : Mon May 16 09:26:46 2016
Response via : Initial Calibration



SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1212\
Data File : 6p25960A.D
Acq On : 16 May 2016 11:40 am
Operator : ariellec
Sample : icv1209-50
Misc : op93693,e6p1212
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 16 12:11:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuMon May 16 09:26:46 2016
QLast Update : Mon May 16 09:26:46 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.864	152	518609	40.00	ppm	0.00
24) Naphthalene-d8	5.992	136	2031947	40.00	ppm	0.00
47) Acenaphthene-d10	8.099	164	1135484	40.00	ppm	-0.01
69) Phenanthrene-d10	10.292	188	1841762	40.00	ppm	-0.01
83) Chrysene-d12	14.486	240	1532336	40.00	ppm	0.00
92) Perylene-d12	16.593	264	1434652	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4a	4.864	152	518609	40.00	ppm	0.00
104) Acenaphthene-d10a	8.099	164	1135484	40.00	ppm	-0.01
106) Phenanthrene-d10a	10.292	188	1841762	40.00	ppm	0.00
110) Chrysene-d12a	14.486	240	1532336	40.00	ppm	0.00
112) Naphthalene-d8a	5.992	136	2031947	40.00	ppm	0.00
114) Chrysene-d12b	14.486	240	1532336	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
108) o-Terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
109) 1-Chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
Target Compounds						Qvalue
105) 1,2,4,5-Tetrachloroben...	6.960	216	858796	61.02	ppm	99
111) benzidine	12.475	184	1242537	72.02	ppm	99

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

7.6.104

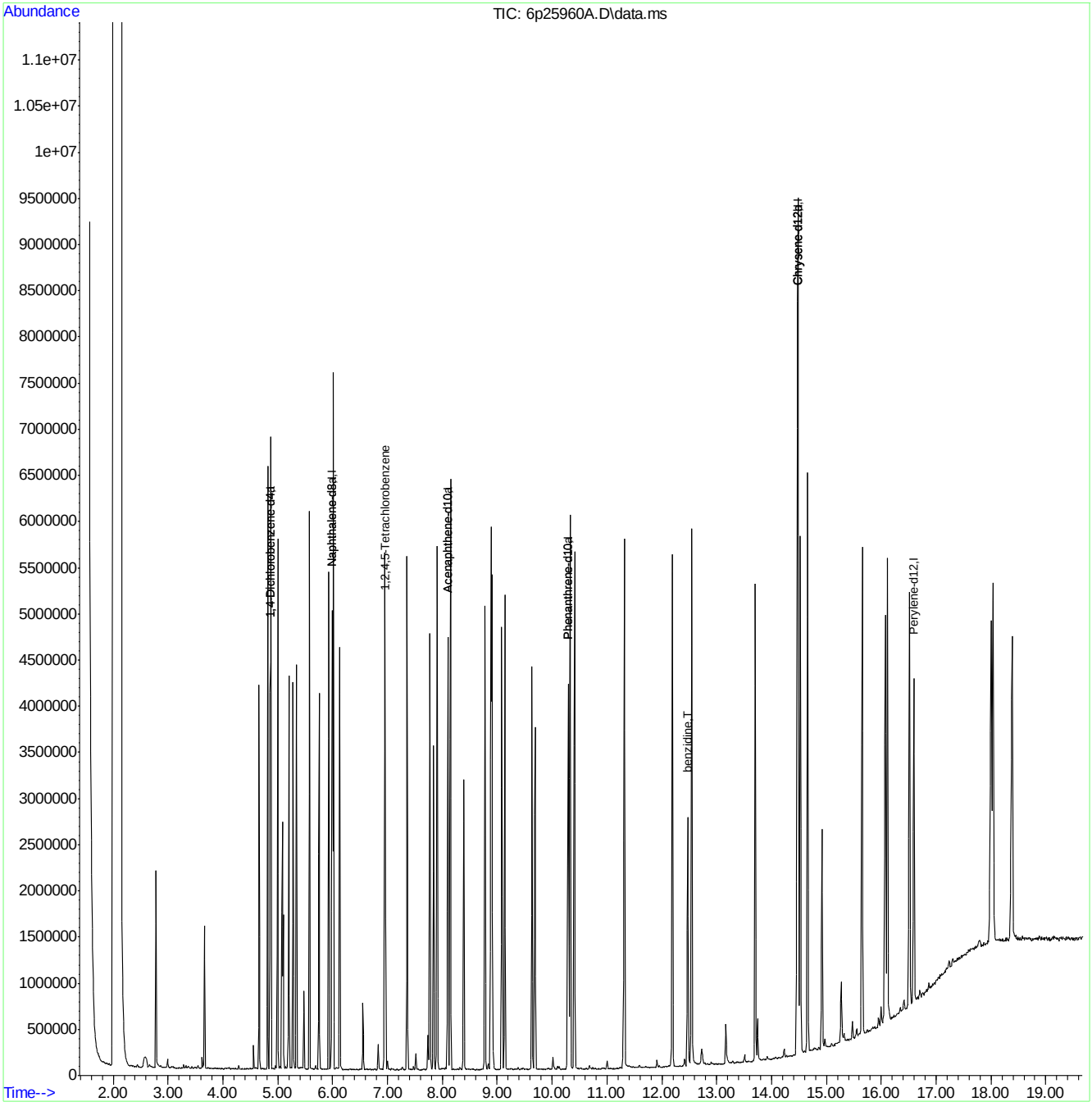
7

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1212\
Data File : 6p25960A.D
Acq On : 16 May 2016 11:40 am
Operator : ariellec
Sample : icv1209-50
Misc : op93693,e6p1212
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 16 12:11:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuMon May 16 09:26:46 2016
QLast Update : Mon May 16 09:26:46 2016
Response via : Initial Calibration



M6P1209.M Mon May 16 12:11:24 2016 ACLIMS Page: 2

Manual Integrations APPROVED (compounds with "m" flag)
Kristi Schollenberger 05/25/16 13:27

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1227\
Data File : 6p26346.D
Acq On : 25 May 2016 9:16 am
Operator : ariellec
Sample : cc1209-25
Misc : op94071,e6p1227
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 25 13:19:28 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed May 25 12:12:48 2016
QLast Update : Wed May 25 12:12:48 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.788	152	641802	40.00	ppm	-0.03
24) Naphthalene-d8	5.906	136	2649383	40.00	ppm	0.00
47) Acenaphthene-d10	8.002	164	1509821	40.00	ppm	-0.14
69) Phenanthrene-d10	10.195	188	2472819	40.00	ppm	-0.13
83) Chrysene-d12	14.389	240	2207005	40.00	ppm	0.00
92) Perylene-d12	16.507	264	1923716	40.00	ppm	-0.06
102) 1,4-Dichlorobenzene-d4a	4.788	152	641802	40.00	ppm	-0.04
104) Acenaphthene-d10a	8.002	164	1509821	40.00	ppm	-0.06
106) Phenanthrene-d10a	10.195	188	2472819	40.00	ppm	-0.05
110) Chrysene-d12a	14.389	240	2207005	40.00	ppm	-0.03
112) Naphthalene-d8a	5.906	136	2649383	40.00	ppm	-0.05
114) Chrysene-d12b	14.389	240	2207005	40.00	ppm	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	3.809	112	541404	22.14	ppm	-0.01
Spiked Amount 50.000			Recovery	=	44.28%	
8) Phenol-d5	4.531	99	740452	23.13	ppm	-0.01
Spiked Amount 50.000			Recovery	=	46.26%	
25) Nitrobenzene-d5	5.242	82	685783	23.21	ppm	0.00
Spiked Amount 50.000			Recovery	=	46.42%	
51) 2-Fluorobiphenyl	7.114	172	1184795	24.34	ppm	-0.13
Spiked Amount 50.000			Recovery	=	48.68%	
73) 2,4,6-Tribromophenol	9.142	330	131171	21.17	ppm	-0.10
Spiked Amount 50.000			Recovery	=	42.34%	
85) Terphenyl-d14	12.747	244	1155494	24.99	ppm	-0.01
Spiked Amount 50.000			Recovery	=	49.98%	
108) o-Terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
109) 1-Chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.365	88	241316	21.17	ppm	99
3) Pyridine	2.686	79	604681	20.96	ppm	97
4) N-Nitrosodimethylamine	2.654	74	361711	20.99	ppm	93
6) Indene	4.991	116	1068377	24.47	ppm	100
7) Cumene	4.178	105	1491723	24.08	ppm	98
9) Phenol	4.536	94	833508	24.28	ppm	88
10) Aniline	4.542	93	761117	19.55	ppm	85
11) bis(2-Chloroethyl)ether	4.585	93	563984	23.12	ppm	99
12) 2-Chlorophenol	4.633	128	592714	23.81	ppm	99
13) Decane	4.649	43	710255	22.25	ppm	92
14) 1,3-Dichlorobenzene	4.745	146	623114	23.92	ppm	98
15) 1,4-Dichlorobenzene	4.804	146	636001	24.09	ppm	100
16) Benzyl alcohol	4.905	108	392603	23.08	ppm	95
17) 1,2-Dichlorobenzene	4.922	146	596475	23.85	ppm	99
18) Acetophenone	5.114	105	855738	23.75	ppm	99
19) 2-Methylphenol	5.002	108	551357	23.27	ppm	93
20) 2,2'-oxybis(1-Chloropr...	5.002	121	211749	24.25	ppm #	68

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1227\
Data File : 6p26346.D
Acq On : 25 May 2016 9:16 am
Operator : ariellec
Sample : cc1209-25
Misc : op94071,e6p1227
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 25 13:19:28 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed May 25 12:12:48 2016
QLast Update : Wed May 25 12:12:48 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
21) 3&4-Methylphenol	5.125	108	596756	23.88	ppm	97
22) n-Nitroso-di-n-propyla...	5.109	70	510968	23.78	ppm	95
23) Hexachloroethane	5.200	201	185838	23.62	ppm	85
26) Nitrobenzene	5.264	77	713771	23.13	ppm	94
27) Quinoline	6.280	129	1182543	23.94	ppm	98
28) Isophorone	5.467	82	1217984	23.26	ppm	97
29) 2-Nitrophenol	5.542	139	335250	25.73	ppm	82
30) 2,4-Dimethylphenol	5.585	107	543966	22.47	ppm	99
31) Benzoic acid	5.702	105	475353	32.14	ppm	92
32) bis(2-Chloroethoxy)met...	5.665	93	689020	23.29	ppm	99
33) 2,4-Dichlorophenol	5.777	162	444504	23.91	ppm	95
34) 2,6-Dichlorophenol	5.997	162	441976	24.72	ppm	100
35) 1,3,5-Trichlorobenzene	5.547	180	487131	23.85	ppm	99
36) 1,2,4-Trichlorobenzene	5.847	180	467649	23.91	ppm	99
37) 1,2,3-Trichlorobenzene	6.071	180	460707	23.96	ppm	99
38) Naphthalene	5.927	128	1806934	24.17	ppm	92
39) 4-Chloroaniline	5.986	127	689686	22.62	ppm	99
40) 2,3-Dichloroaniline	7.018	161	568849	24.67	ppm	97
41) Caprolactam	6.366	55	295728	23.61	ppm	96
42) Hexachlorobutadiene	6.039	225	240506	24.08	ppm	99
43) 4-Chloro-3-methylphenol	6.526	107	572485	24.89	ppm	96
44) 2-Methylnaphthalene	6.671	141	989730	24.67	ppm	98
45) 1-Methylnaphthalene	6.788	141	1031565	25.03	ppm	97
46) Dimethylnaphthalene	7.441	156	1042848	24.81	ppm	98
48) Hexachlorocyclopentadiene	6.847	237	385523	36.45	ppm	93
49) 2,4,6-Trichlorophenol	7.024	196	310994	25.36	ppm	99
50) 2,4,5-Trichlorophenol	7.077	196	331580	24.65	ppm	100
52) 2-Chloronaphthalene	7.264	162	1022486	23.73	ppm	99
53) Biphenyl	7.243	154	1423479	24.59	ppm	100
54) 2-Nitroaniline	7.414	65	431076	27.46	ppm	99
55) Dimethylphthalate	7.655	163	1195286	23.78	ppm	99
56) Acenaphthylene	7.810	152	1791722	24.80	ppm	100
57) 2,6-Dinitrotoluene	7.740	165	282216	27.39	ppm	94
58) 3-Nitroaniline	7.970	138	323829	24.62	ppm	97
59) Acenaphthene	8.045	153	1125834	24.71	ppm	99
60) 2,4-Dinitrophenol	8.125	184	281080	56.52	ppm	92
61) 4-Nitrophenol	8.264	109	171862	22.23	ppm	92
62) Dibenzofuran	8.291	168	1492644	24.64	ppm	99
63) 2,4-Dinitrotoluene	8.302	165	387387	28.00	ppm	70
64) 2,3,4,6-Tetrachlorophenol	8.484	232	249216	26.14	ppm	89
65) Diethylphthalate	8.660	149	1243279	24.29	ppm	98
66) Fluorene	8.783	166	1273797	25.11	ppm	100
67) 4-Chlorophenyl-phenyle...	8.799	204	548978	24.07	ppm	99
68) 4-Nitroaniline	8.853	138	322984	23.45	ppm	87
70) 4,6-Dinitro-2-methylph...	8.890	198	209277	29.61	ppm	82
71) n-Nitrosodiphenylamine	8.981	169	867798	25.12	ppm	99
72) 1,2-Diphenylhydrazine	9.035	77	1430797	23.03	ppm	95
74) 4-Bromophenyl-phenylether	9.527	248	293833	23.63	ppm	98
75) Hexachlorobenzene	9.591	284	293394	21.60	ppm	85
76) Pentachlorophenol	9.922	266	346164	44.16	ppm	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1227\
Data File : 6p26346.D
Acq On : 25 May 2016 9:16 am
Operator : ariellec
Sample : cc1209-25
Misc : op94071,e6p1227
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 25 13:19:28 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed May 25 12:12:48 2016
QLast Update : Wed May 25 12:12:48 2016
Response via : Initial Calibration

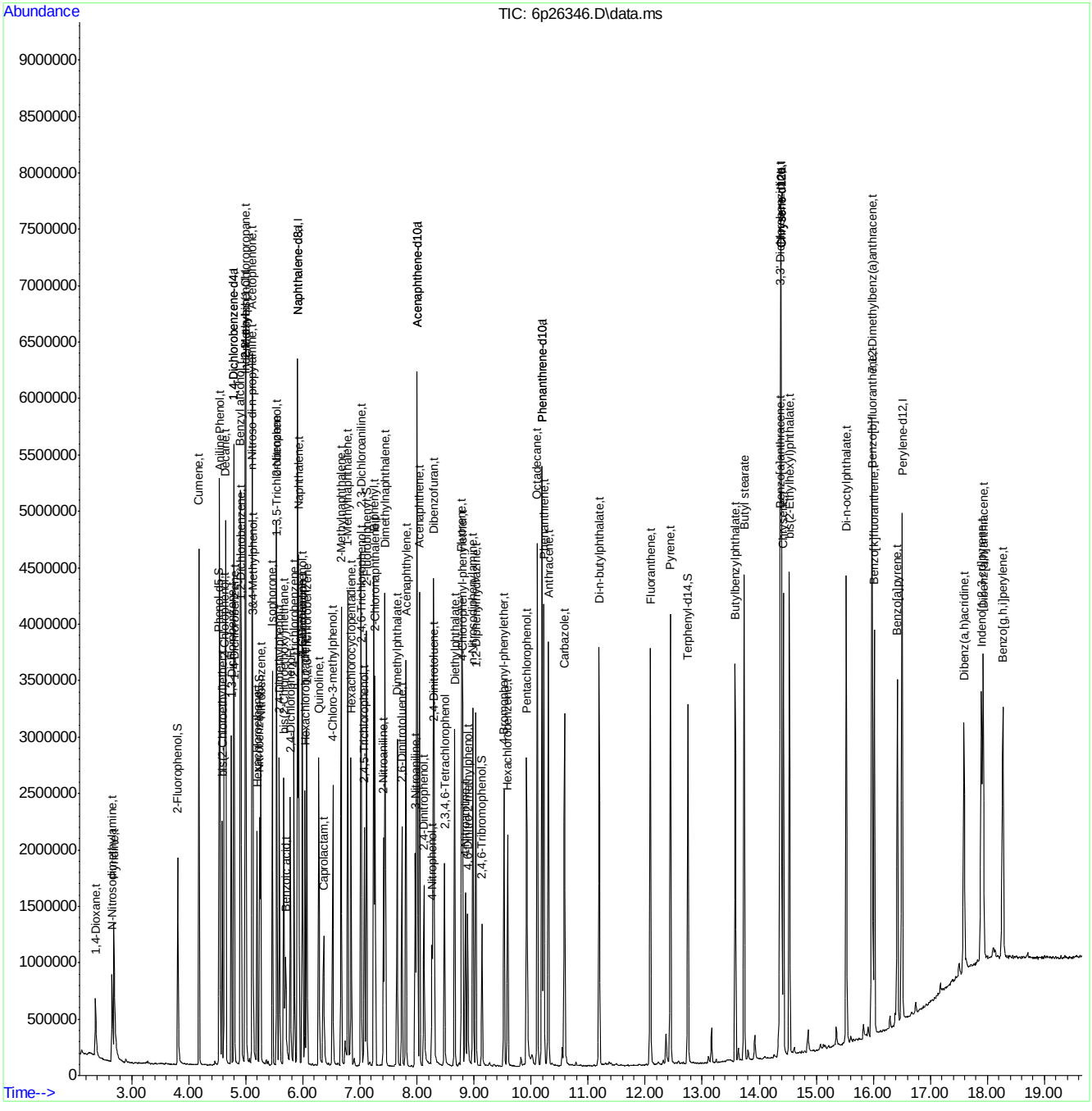
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
77)	Phenanthrene	10.227	178	1749562	24.40	ppm	100
78)	Anthracene	10.308	178	1790455	25.20	ppm	99
79)	Carbazole	10.586	167	1646029	24.61	ppm	99
80)	Di-n-butylphthalate	11.195	149	2114798	25.13	ppm	99
81)	Fluoranthene	12.094	202	1864614	24.48	ppm	100
82)	Octadecane	10.110	57	961930	26.01	ppm	96
84)	Pyrene	12.442	202	1931114	25.79	ppm	100
86)	Butylbenzylphthalate	13.581	149	958404	29.07	ppm	99
87)	Butyl stearate	13.736	56	703769	29.84	ppm	98
88)	Benzo[a]anthracene	14.367	228	1646965	25.14	ppm	99
89)	3,3'-Dichlorobenzidine	14.378	252	591568	26.31	ppm	97
90)	Chrysene	14.426	228	1592311m	25.08	ppm	
91)	bis(2-Ethylhexyl)phtha...	14.533	149	1329932	28.38	ppm	95
93)	Di-n-octylphthalate	15.523	149	2306006	32.01	ppm	99
94)	Benzo[b]fluoranthene	15.983	252	1596842	26.25	ppm	60
95)	Benzo[k]fluoranthene	16.020	252	1505334	25.59	ppm	99
96)	Benzo[a]pyrene	16.421	252	1387319	26.68	ppm	71
97)	Indeno[1,2,3-cd]pyrene	17.892	276	1388995m	26.29	ppm	
98)	Dibenz(a,h)acridine	17.592	279	1180546	24.94	ppm	98
99)	Dibenz[a,h]anthracene	17.924	278	1384839	24.21	ppm	94
100)	7,12-Dimethylbenz(a)an...	15.977	256	629392	24.77	ppm	96
101)	Benzo[g,h,i]perylene	18.272	276	1351774	23.60	ppm	95

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1227\
Data File : 6p26346.D
Acq On : 25 May 2016 9:16 am
Operator : ariellec
Sample : cc1209-25
Misc : op94071,e6p1227
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 25 13:19:28 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed May 25 12:12:48 2016
QLast Update : Wed May 25 12:12:48 2016
Response via : Initial Calibration



SGS ACCUTEST JC20098

Manual Integration Approval Summary

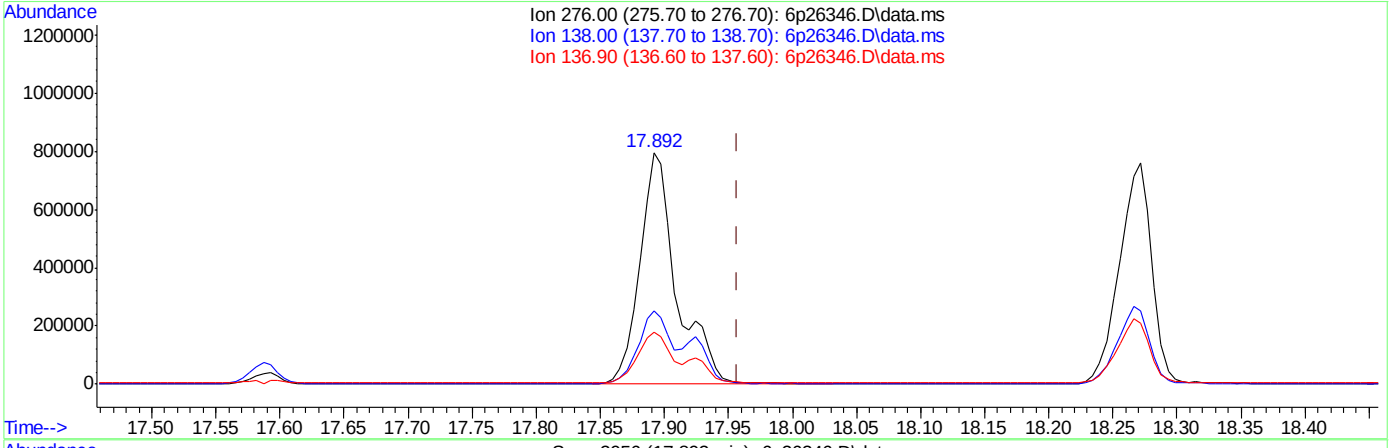
Sample Number:	E6P1227-CC1209	**Method:**	SW846 8270D
Lab FileID:	6P26346.D	**Analyst approved:**	05/25/16 13:20 Arielle Cocozza
Injection Time:	05/25/16 09:16	**Supervisor approved:**	05/25/16 13:27 Kristi Schollenberger

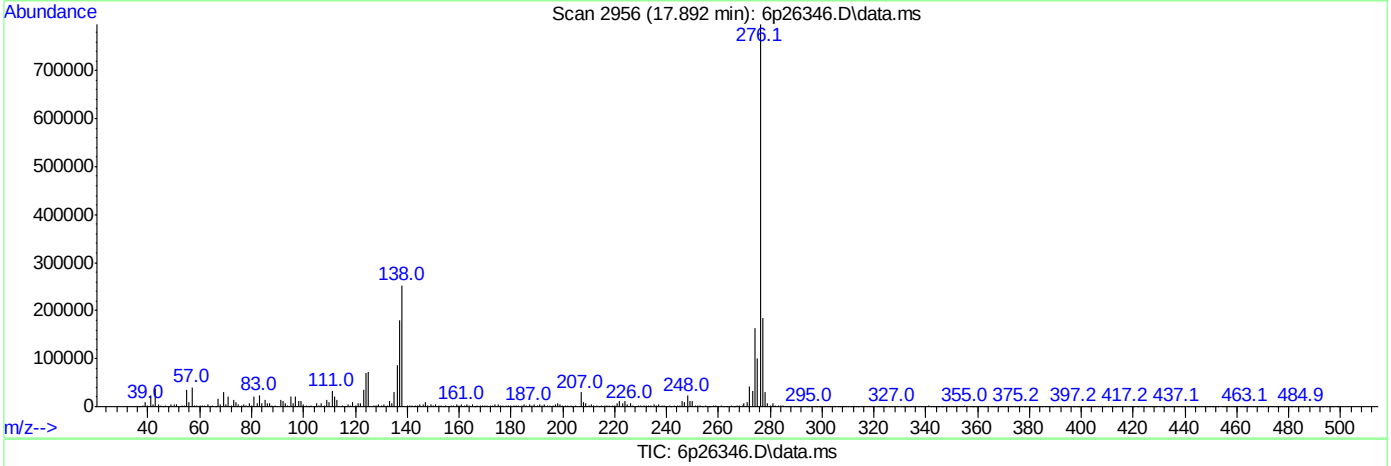
Parameter	CAS	Sig#	R.T. (min.)	Reason
Chrysene	218-01-9		14.43	Poor instrument integration
Indeno(1,2,3-cd)pyrene	193-39-5		17.89	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p1227\
Data File : 6p26346.D
Acq On : 25 May 2016 9:16 am
Operator : ariellec
Sample : cc1209-25
Misc : op94071,e6p1227
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 25 12:11:45 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed May 25 12:11:22 2016
QLast Update : Wed May 25 12:11:22 2016
Response via : Initial Calibration





TIC: 6p26346.D\data.ms

(97) Indeno[1,2,3-cd]pyrene (t)

17.892min (-0.065) 30.31ppm

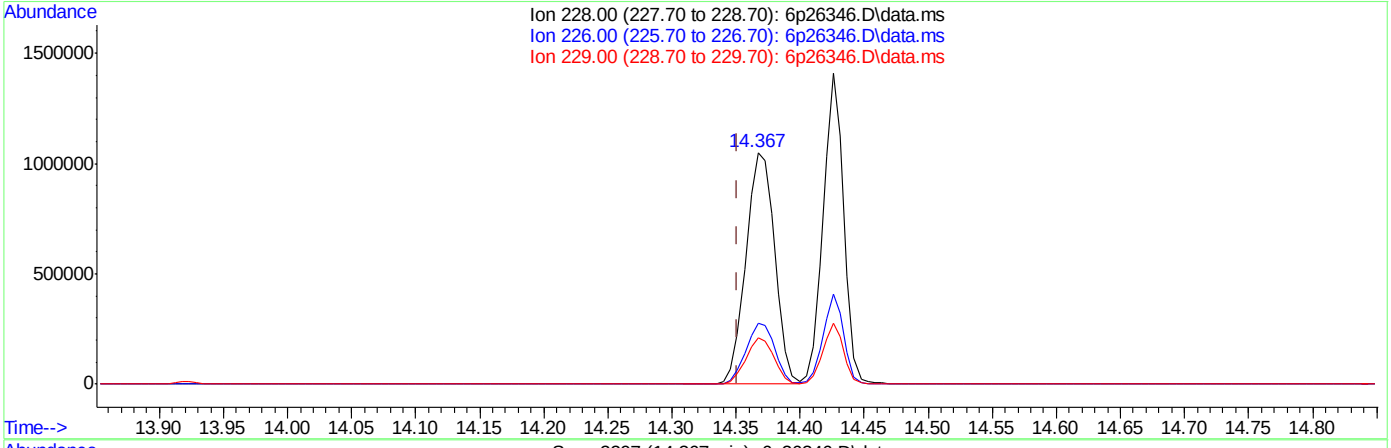
response 1601516

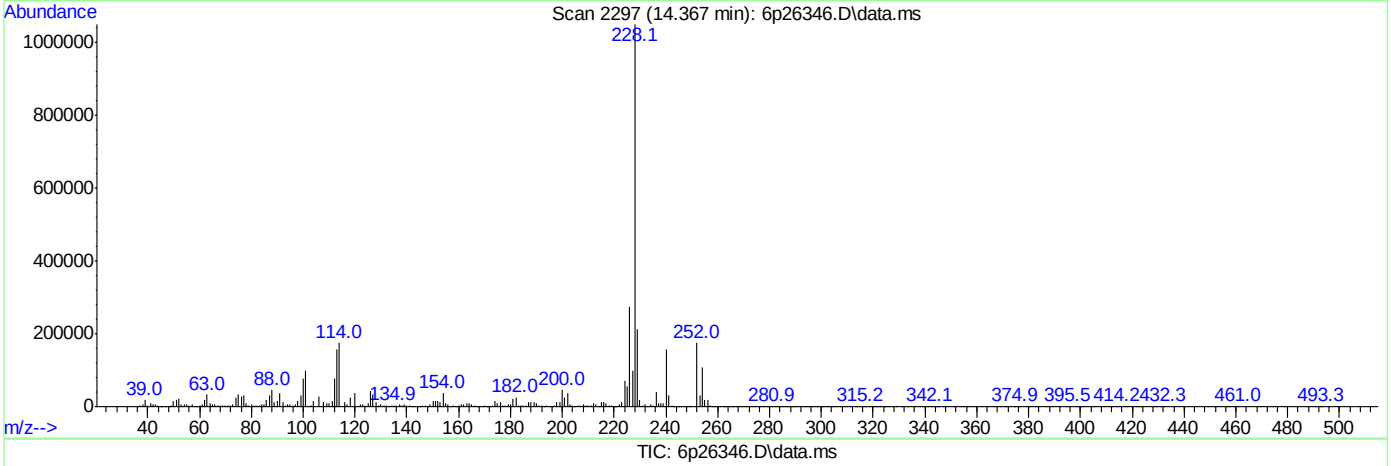
Ion	Exp%	Act%
276.00	100	100
138.00	28.40	31.55
136.90	22.40	22.01
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p1227\
Data File : 6p26346.D
Acq On : 25 May 2016 9:16 am
Operator : ariellec
Sample : cc1209-25
Misc : op94071,e6p1227
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 25 12:12:51 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed May 25 12:12:48 2016
QLast Update : Wed May 25 12:12:48 2016
Response via : Initial Calibration





TIC: 6p26346.D\data.ms

(90) Chrysene (t)

14.367min (+0.016) 25.94ppm

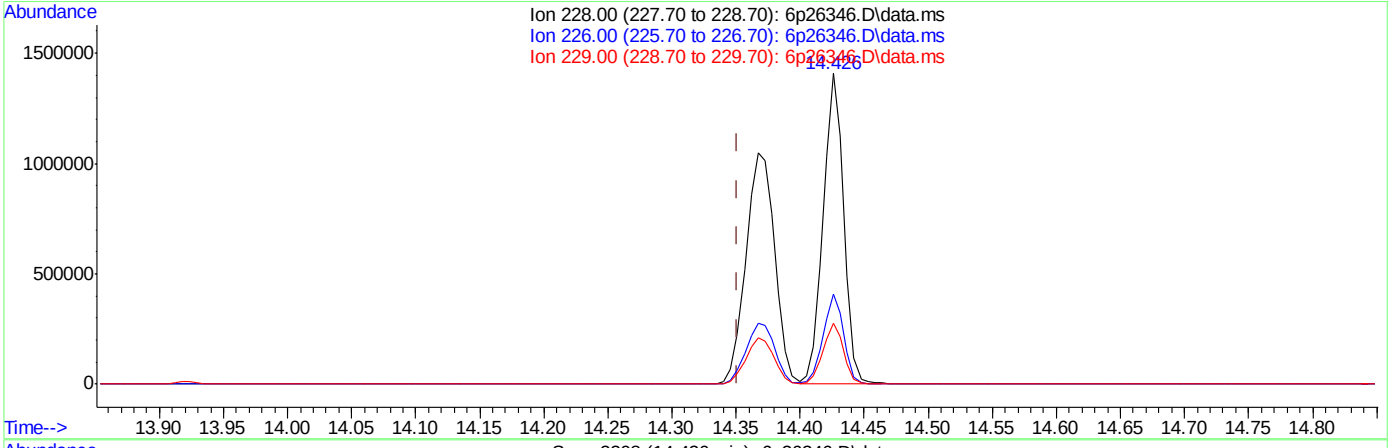
response 1646965

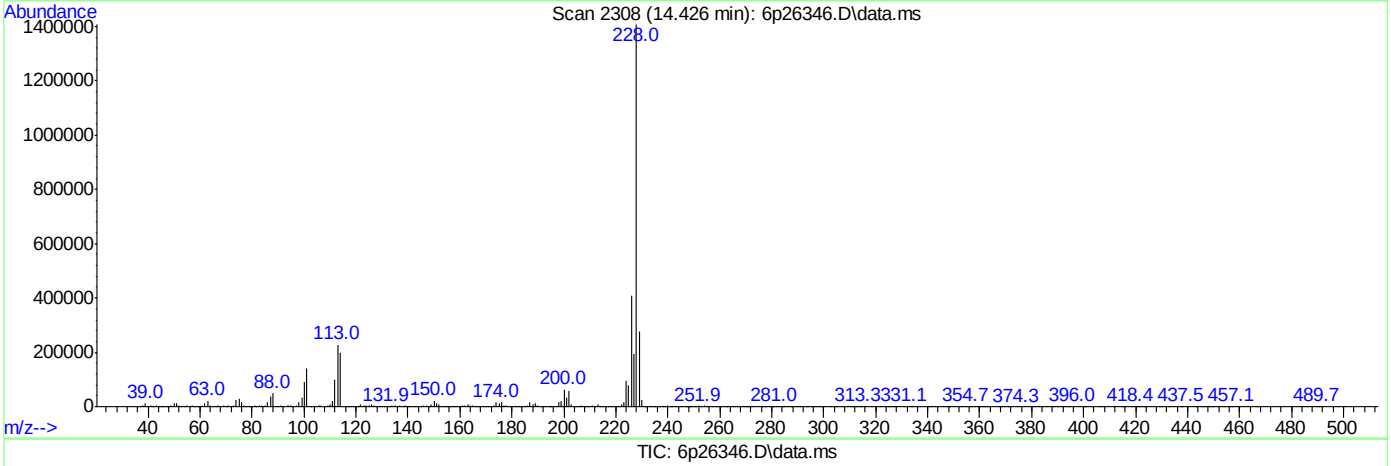
Ion	Exp%	Act%
228.00	100	100
226.00	29.10	26.09
229.00	19.50	20.10
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p1227\
Data File : 6p26346.D
Acq On : 25 May 2016 9:16 am
Operator : ariellec
Sample : cc1209-25
Misc : op94071,e6p1227
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 25 12:12:51 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed May 25 12:12:48 2016
QLast Update : Wed May 25 12:12:48 2016
Response via : Initial Calibration





(90) Chrysene (t)

14.426min (+0.075) 25.08ppm m

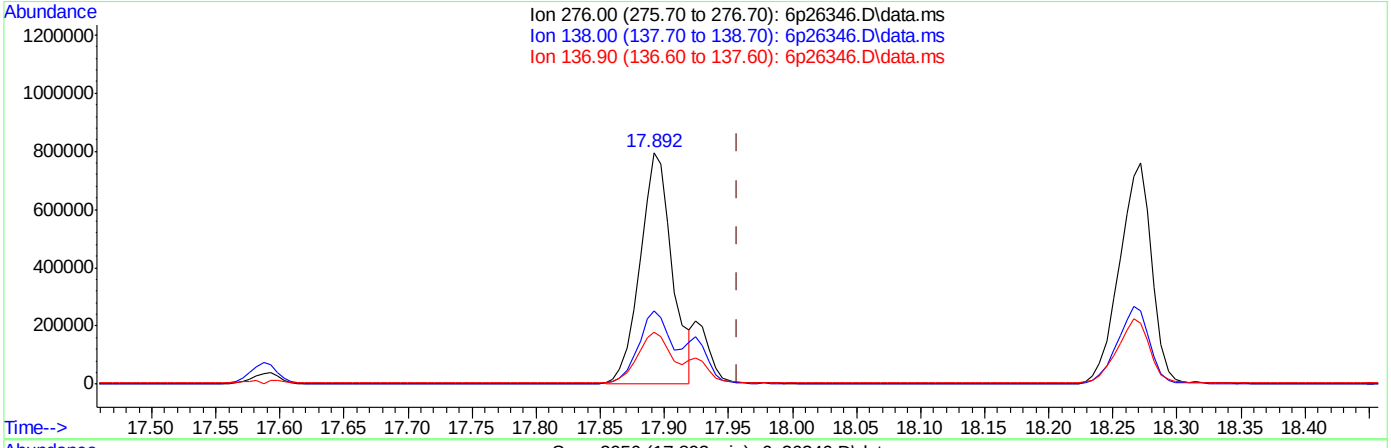
response 1592311

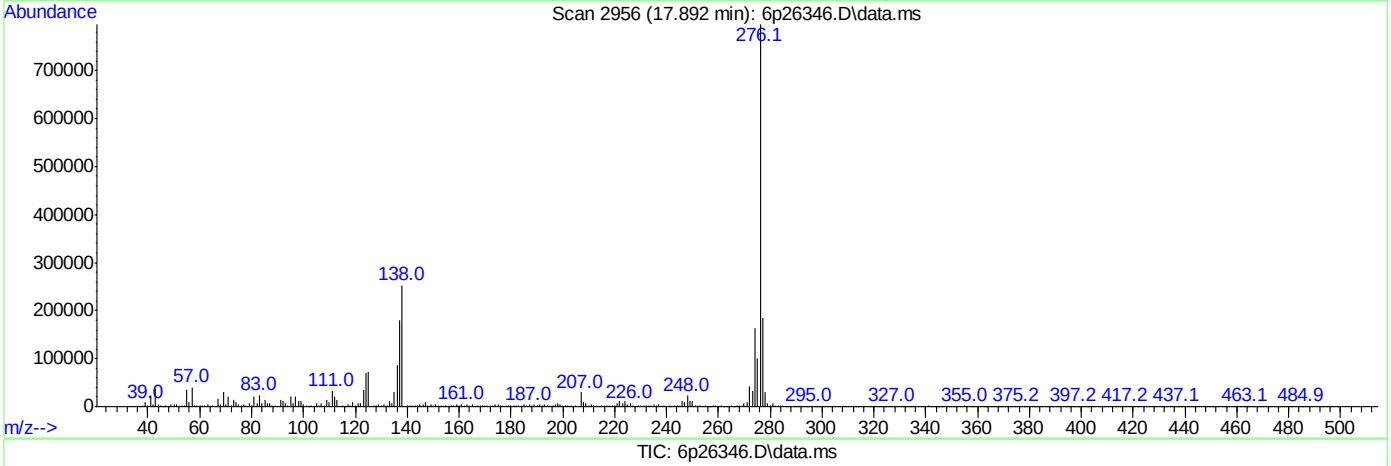
Ion	Exp%	Act%
228.00	100	100
226.00	29.10	29.08
229.00	19.50	19.53
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p1227\
Data File : 6p26346.D
Acq On : 25 May 2016 9:16 am
Operator : ariellec
Sample : cc1209-25
Misc : op94071,e6p1227
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 25 12:13:30 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed May 25 12:12:48 2016
QLast Update : Wed May 25 12:12:48 2016
Response via : Initial Calibration





TIC: 6p26346.D\data.ms

(97) Indeno[1,2,3-cd]pyrene (t)

17.892min (-0.065) 26.29ppm m

response 1388995

Ion	Exp%	Act%
276.00	100	100
138.00	28.40	31.80
136.90	22.40	22.64
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1227\
Data File : 6p26347.D
Acq On : 25 May 2016 9:51 am
Operator : ariellec
Sample : cc1210-25
Misc : op94071,e6p1227
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 25 11:47:58 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuTue May 24 15:05:56 2016
QLast Update : Tue May 24 15:05:56 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.788	152	618803	40.00	ppm	-0.04
24) Naphthalene-d8	5.906	136	2575150	40.00	ppm	-0.05
47) Acenaphthene-d10	7.997	164	1530725	40.00	ppm	-0.02
69) Phenanthrene-d10	10.190	188	2624110	40.00	ppm	-0.03
83) Chrysene-d12	14.383	240	2366804	40.00	ppm	-0.04
92) Perylene-d12	16.501	264	2037083	40.00	ppm	-0.04
102) 1,4-Dichlorobenzene-d4a	4.788	152	618803	40.00	ppm	-0.04
104) Acenaphthene-d10a	7.997	164	1530725	40.00	ppm	-0.06
106) Phenanthrene-d10a	10.190	188	2624110	40.00	ppm	-0.06
110) Chrysene-d12a	14.383	240	2366804	40.00	ppm	-0.04
112) Naphthalene-d8a	5.906	136	2575150	40.00	ppm	-0.05
114) Chrysene-d12b	14.383	240	2366804	40.00	ppm	-0.04
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
108) o-Terphenyl	10.821	230	847678	23.41	ppm	-0.07
Spiked Amount 50.000			Recovery = 46.82%			
109) 1-Chlorooctadecane	12.014	57	659492	27.28	ppm	-0.07
Spiked Amount 50.000			Recovery = 54.56%			
Target Compounds						Qvalue
103) Benzaldehyde	4.456	105	452128	24.26	ppm	98
105) 1,2,4,5-Tetrachloroben...	6.869	216	444397	23.42	ppm	100
107) Atrazine	9.832	215	178983	27.31	ppm	97
111) benzidine	12.362	184	748611	32.74	ppm	99
113) Hydroquinone	6.355	110	613169	25.17	ppm	99

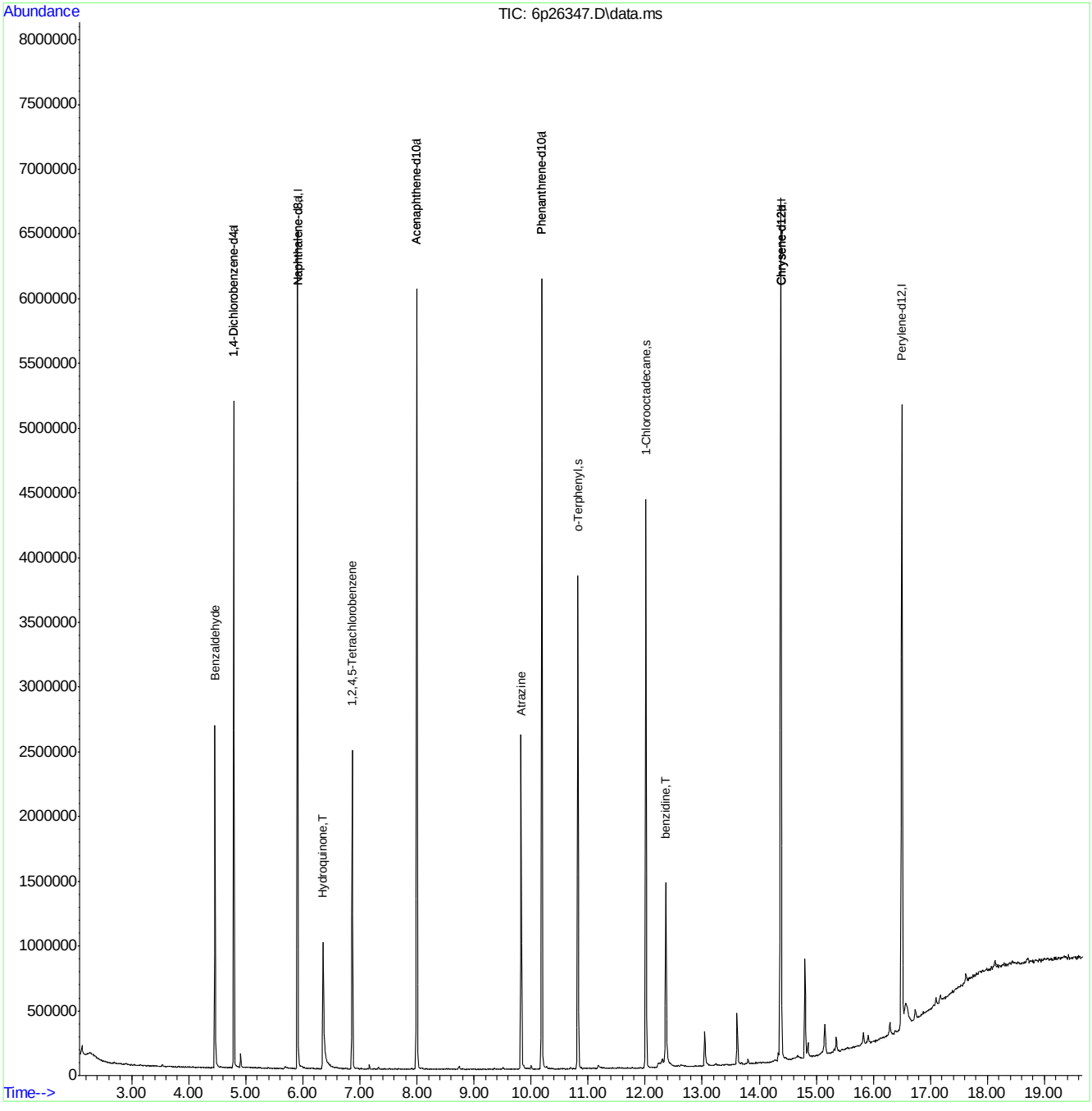
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1227\
Data File : 6p26347.D
Acq On : 25 May 2016 9:51 am
Operator : ariellec
Sample : cc1210-25
Misc : op94071,e6p1227
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 25 11:47:58 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuTue May 24 15:05:56 2016
QLast Update : Tue May 24 15:05:56 2016
Response via : Initial Calibration



M6P1209.M Wed May 25 11:48:01 2016 ACLIMS Page: 2

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156051.D Vial: 2
Acq On : 4 Apr 2016 7:09 pm Operator: sarad
Sample : ic6563-100 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 08:14:01 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:13:49 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	735738	40.00	ppm	0.00
24) Naphthalene-d8	5.81	136	2800726	40.00	ppm	0.00
47) Acenaphthene-d10	7.28	164	1660280	40.00	ppm	0.00
69) Phenanthrene-d10	9.22	188	2724294	40.00	ppm	0.00
83) Chrysene-d12	14.55	240	2126198	40.00	ppm	0.00
92) Perylene-d12	17.60	264	2220858	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.88	152	735738	40.00	ppm	0.00
112) Naphthalene-d8A	5.81	136	2800726	40.00	ppm	0.00
121) Acenaphthene-d10A	7.28	164	1660280	40.00	ppm	0.00
132) Phenanthrene-d10A	9.22	188	2724294	40.00	ppm	0.00
147) Chrysene-d12A	14.55	240	2126198	40.00	ppm	0.00
155) Perylene-d12A	17.60	264	2220858	40.00	ppm	-0.10
159) 1,4-Dichlorobenzene-d4b	4.88	152	735738	40.00	ppm	0.00
161) Naphthalene-d8b	5.81	136	2800726	40.00	ppm	0.00
163) Acenaphthene-d10b	7.28	164	1660280	40.00	ppm	0.00
165) Phenanthrene-d10b	9.22	188	2724294	40.00	ppm	0.00
167) Chrysene-d12b	14.55	240	2126198	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.88	152	735738	40.00	ppm	0.00
171) Naphthalene-d8c	5.81	136	2800726	40.00	ppm	0.00
176) Chrysene-d12c	14.55	240	2126198	40.00	ppm	0.00
178) Naphthalene-d8a	5.81	136	2800726	40.00	ppm	0.15
180) Chrysene-d12B	14.55	240	2126198	40.00	ppm	0.25
System Monitoring Compounds						
5) 2-Fluorophenol	3.89	112	2415283	97.31	ppm	0.00
Spiked Amount 50.000			Recovery	=	194.62%	
8) Phenol-d5	4.61	99	2853578	96.41	ppm	0.00
Spiked Amount 50.000			Recovery	=	192.82%	
25) Nitrobenzene-d5	5.28	82	2433835	96.44	ppm	0.00
Spiked Amount 50.000			Recovery	=	192.88%	
51) 2-Fluorobiphenyl	6.64	172	4342287	93.76	ppm	0.00
Spiked Amount 50.000			Recovery	=	187.52%	
73) 2,4,6-Tribromophenol	8.20	330	517542	95.28	ppm	0.00
Spiked Amount 50.000			Recovery	=	190.56%	
85) Terphenyl-d14	12.32	244	4088465	96.46	ppm	0.01
Spiked Amount 50.000			Recovery	=	192.92%	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.48	88	1018203	95.16	ppm	95
3) Pyridine	2.79	79	2690464	99.72	ppm	99
4) N-Nitrosodimethylamine	2.76	42	937530	90.49	ppm	96
6) Indene	5.07	116	3469537	92.16	ppm	99
7) Cumene	4.29	105	4968732	93.89	ppm	97
9) Phenol	4.62	94	3154982	99.75	ppm	98
10) Aniline	4.64	93	2963325	94.39	ppm	99
11) bis(2-Chloroethyl)ether	4.69	93	2177822	96.37	ppm	96
12) 2-Chlorophenol	4.73	128	2406387	95.55	ppm	99
13) Decane	4.76	43	1963317	95.11	ppm	98
14) 1,3-Dichlorobenzene	4.84	146	2614967	94.91	ppm	99
15) 1,4-Dichlorobenzene	4.89	146	2614476	95.23	ppm	99

(#) = qualifier out of range (m) = manual integration
F156051.D MF6563.M Tue Apr 05 08:42:32 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156051.D Vial: 2
Acq On : 4 Apr 2016 7:09 pm Operator: sarad
Sample : ic6563-100 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 08:14:01 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:13:49 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
16)	Benzyl alcohol	4.98	108	1576852	96.65	ppm	92
17)	1,2-Dichlorobenzene	5.01	146	2379933	93.80	ppm	99
18)	Acetophenone	5.18	105	2624782	92.97	ppm	99
19)	2-Methylphenol	5.06	108	2053215	94.88	ppm	99
20)	2,2'-oxybis(1-Chloropropan	5.08	121	730006	94.43	ppm	95
21)	3&4-Methylphenol	5.17	108	1977426	92.94	ppm	98
22)	n-Nitroso-di-n-propylamine	5.18	70	1528888	96.37	ppm	98
23)	Hexachloroethane	5.26	201	817929	95.24	ppm	90
26)	Nitrobenzene	5.30	77	2494112	95.44	ppm	99
27)	Quinoline	6.07	129	4860825	96.16	ppm	98
28)	Isophorone	5.48	82	4117430	95.13	ppm	98
29)	2-Nitrophenol	5.53	139	1242388	94.12	ppm	93
30)	2,4-Dimethylphenol	5.55	107	2185611	97.20	ppm	99
31)	Benzoic acid	5.65	105	1881567	95.13	ppm	94
32)	bis(2-Chloroethoxy)methane	5.62	93	2547670	95.25	ppm	99
33)	2,4-Dichlorophenol	5.70	162	1959287	94.69	ppm	98
34)	2,6-Dichlorophenol	5.86	162	1731527	92.72	ppm	98
35)	1,3,5-Trichlorobenzene	5.54	180	1853561	91.96	ppm	98
36)	1,2,4-Trichlorobenzene	5.77	180	1938698	93.10	ppm	99
37)	1,2,3-Trichlorobenzene	5.93	180	1890090	92.62	ppm	99
38)	Naphthalene	5.82	128	5709757	89.14	ppm	94
39)	4-Chloroaniline	5.86	127	2479911	92.20	ppm	99
40)	2,3-Dichloroaniline	6.56	161	1986572	92.15	ppm	95
41)	Caprolactam	6.13	55	1008962	97.53	ppm	98
42)	Hexachlorobutadiene	5.91	225	893950	92.65	ppm	99
43)	4-Chloro-3-methylphenol	6.21	107	1978829	95.60	ppm	98
44)	2-Methylnaphthalene	6.34	141	3554755	93.20	ppm	97
45)	1-Methylnaphthalene	6.42	141	3668076	93.09	ppm	98
46)	Dimethylnaphthalene	6.87	156	3683476	92.55	ppm	98
48)	Hexachlorocyclopentadiene	6.46	237	1893313	184.00	ppm	99
49)	2,4,6-Trichlorophenol	6.56	196	1076514	90.67	ppm	99
50)	2,4,5-Trichlorophenol	6.60	196	1388401	97.07	ppm	97
52)	2-Chloronaphthalene	6.75	162	3997017	93.95	ppm	97
53)	Biphenyl	6.72	154	4938769	92.56	ppm	96
54)	2-Nitroaniline	6.83	65	1315818	97.37	ppm	99
55)	Dimethylphthalate	6.99	163	4635167	95.00	ppm	99
56)	Acenaphthylene	7.13	152	6291490	92.61	ppm	96
57)	2,6-Dinitrotoluene	7.05	165	1104006	96.28	ppm	99
58)	3-Nitroaniline	7.22	138	1387906	97.20	ppm	97
59)	Acenaphthene	7.31	153	3993510	93.75	ppm	99
60)	2,4-Dinitrophenol	7.34	184	1363184	199.99	ppm	90
61)	4-Nitrophenol	7.38	109	700188	98.20	ppm	95
62)	Dibenzofuran	7.50	168	5523942	94.24	ppm	96
63)	2,4-Dinitrotoluene	7.47	165	1525966	97.18	ppm	99
64)	2,3,4,6-Tetrachlorophenol	7.63	232	1059085	95.49	ppm	98
65)	Diethylphthalate	7.75	149	4660438	95.22	ppm	98
66)	Fluorene	7.90	166	3950840	92.72	ppm	100
67)	4-Chlorophenyl-phenylether	7.89	204	1689443	92.10	ppm	99
68)	4-Nitroaniline	7.92	138	1402452	98.41	ppm	99

(#) = qualifier out of range (m) = manual integration

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156051.D Vial: 2
Acq On : 4 Apr 2016 7:09 pm Operator: sarad
Sample : ic6563-100 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 08:14:01 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:13:49 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
70)	4,6-Dinitro-2-methylphenol	7.96	198	920275	98.75	ppm	98
71)	n-Nitrosodiphenylamine	8.04	169	3341482	94.31	ppm	100
72)	1,2-Diphenylhydrazine	8.09	77	4866438	96.01	ppm	100
74)	4-Bromophenyl-phenylether	8.55	248	1119508	94.72	ppm	98
75)	Hexachlorobenzene	8.63	284	1067556	94.24	ppm	96
76)	Pentachlorophenol	8.93	266	1472528	187.28	ppm	97
77)	Phenanthrene	9.26	178	6463150	94.05	ppm	99
78)	Anthracene	9.34	178	6560053	93.30	ppm	98
79)	Carbazole	9.62	167	6335193	94.85	ppm	99
80)	Di-n-butylphthalate	10.33	149	7970957	93.84	ppm	98
81)	Fluoranthene	11.44	202	6809284	94.97	ppm	99
82)	Octadecane	9.11	57	2784718	94.50	ppm	98
84)	Pyrene	11.89	202	7130369	96.69	ppm	99
86)	Butylbenzylphthalate	13.50	149	3749178	98.42	ppm	99
87)	Butyl stearate	13.78	56	2050981	96.66	ppm	97
88)	Benzo[a]anthracene	14.53	228	6154397	97.90	ppm	99
89)	3,3'-Dichlorobenzidine	14.57	252	2263266	99.56	ppm	99
90)	Chrysene	14.62	228	6043538	96.93	ppm	98
91)	bis(2-Ethylhexyl)phthalate	14.91	149	5223738	98.04	ppm	99
93)	Di-n-octylphthalate	16.36	149	9141867	94.78	ppm	99
94)	Benzo[b]fluoranthene	16.86	252	6115537	94.36	ppm	98
95)	Benzo[k]fluoranthene	16.93	252	6017663	93.42	ppm	99
96)	Benzo[a]pyrene	17.50	252	5718329	95.17	ppm	99
97)	Indeno[1,2,3-cd]pyrene	19.56	276	5381186	96.35	ppm	98
98)	Dibenz(a,h)acridine	19.19	279	4651885	96.37	ppm	98
99)	Dibenz[a,h]anthracene	19.62	278	5247348	95.01	ppm	98
100)	7,12-Dimethylbenz(a)anthra	16.88	256	2602864	95.06	ppm	98
101)	Benzo[g,h,i]perylene	19.99	276	5636779	95.40	ppm	99

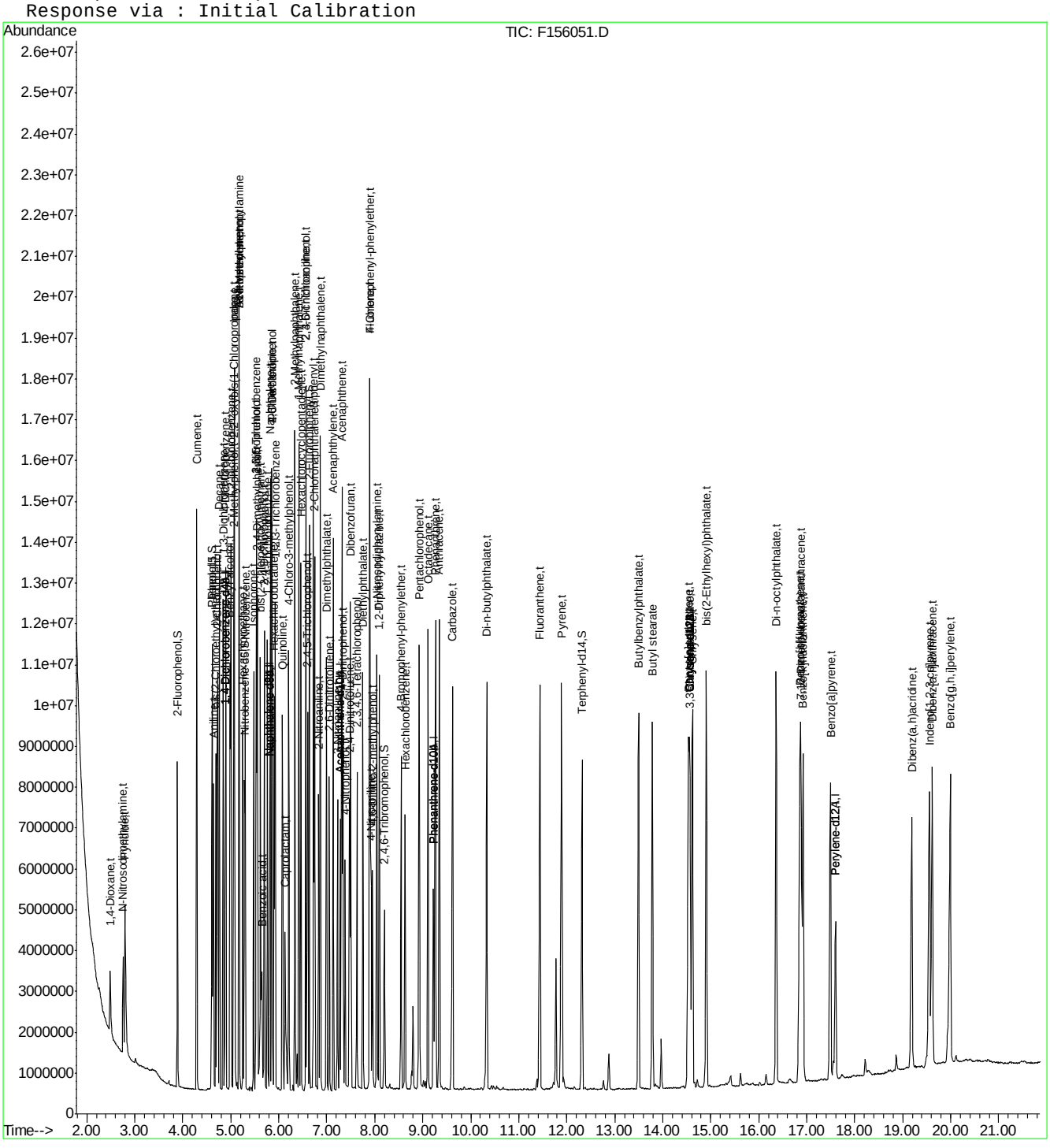
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156051.D Vial: 2
Acq On : 4 Apr 2016 7:09 pm Operator: sarad
Sample : ic6563-100 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 5 8:42 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:13:49 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156052.D Vial: 3
Acq On : 4 Apr 2016 7:38 pm Operator: sarad
Sample : ic6563-80 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 08:14:04 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:13:49 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	764392	40.00	ppm	0.00
24) Naphthalene-d8	5.81	136	2888824	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	1719749	40.00	ppm	0.00
69) Phenanthrene-d10	9.22	188	2826597	40.00	ppm	0.00
83) Chrysene-d12	14.55	240	2250416	40.00	ppm	0.00
92) Perylene-d12	17.59	264	2338825	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.88	152	764392	40.00	ppm	0.00
112) Naphthalene-d8A	5.81	136	2888824	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	1719749	40.00	ppm	0.00
132) Phenanthrene-d10A	9.22	188	2826597	40.00	ppm	0.00
147) Chrysene-d12A	14.55	240	2250416	40.00	ppm	0.00
155) Perylene-d12A	17.59	264	2338825	40.00	ppm	-0.10
159) 1,4-Dichlorobenzene-d4b	4.88	152	764392	40.00	ppm	0.00
161) Naphthalene-d8b	5.81	136	2888824	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	1719749	40.00	ppm	0.00
165) Phenanthrene-d10b	9.22	188	2826597	40.00	ppm	0.00
167) Chrysene-d12b	14.55	240	2250416	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.88	152	764392	40.00	ppm	0.00
171) Naphthalene-d8c	5.81	136	2888824	40.00	ppm	0.00
176) Chrysene-d12c	14.55	240	2250416	40.00	ppm	0.00
178) Naphthalene-d8a	5.81	136	2888824	40.00	ppm	0.15
180) Chrysene-d12B	14.55	240	2250416	40.00	ppm	0.25
System Monitoring Compounds						
5) 2-Fluorophenol	3.89	112	2062489	79.98	ppm	0.00
Spiked Amount 50.000			Recovery = 159.96%			
8) Phenol-d5	4.61	99	2462479	80.08	ppm	0.00
Spiked Amount 50.000			Recovery = 160.16%			
25) Nitrobenzene-d5	5.28	82	2060768	79.17	ppm	0.00
Spiked Amount 50.000			Recovery = 158.34%			
51) 2-Fluorobiphenyl	6.63	172	3825541	79.74	ppm	0.00
Spiked Amount 50.000			Recovery = 159.48%			
73) 2,4,6-Tribromophenol	8.20	330	446788	79.28	ppm	0.00
Spiked Amount 50.000			Recovery = 158.56%			
85) Terphenyl-d14	12.31	244	3624247	80.79	ppm	0.00
Spiked Amount 50.000			Recovery = 161.58%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.50	88	879798	79.14	ppm	95
3) Pyridine	2.80	79	2273153	81.09	ppm	100
4) N-Nitrosodimethylamine	2.76	42	790559	73.45	ppm	97
6) Indene	5.07	116	3089321	78.98	ppm	100
7) Cumene	4.29	105	4456078	81.05	ppm	99
9) Phenol	4.62	94	2760273	84.00	ppm	98
10) Aniline	4.64	93	2652544	81.32	ppm	99
11) bis(2-Chloroethyl)ether	4.69	93	1882357	80.17	ppm	97
12) 2-Chlorophenol	4.73	128	2078397	79.43	ppm	98
13) Decane	4.76	43	1701763	79.35	ppm	99
14) 1,3-Dichlorobenzene	4.84	146	2276578	79.53	ppm	100
15) 1,4-Dichlorobenzene	4.89	146	2285665	80.13	ppm	99

(#) = qualifier out of range (m) = manual integration
F156052.D MF6563.M Tue Apr 05 08:44:12 2016 RT1

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156052.D Vial: 3
Acq On : 4 Apr 2016 7:38 pm Operator: sarad
Sample : ic6563-80 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 08:14:04 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:13:49 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
16)	Benzyl alcohol	4.98	108	1343060	79.24	ppm	94
17)	1,2-Dichlorobenzene	5.01	146	2067345	78.43	ppm	99
18)	Acetophenone	5.18	105	2310235	78.76	ppm	89
19)	2-Methylphenol	5.06	108	1787075	79.49	ppm	99
20)	2,2'-oxybis(1-Chloropropan	5.08	121	632570	78.76	ppm	93
21)	3&4-Methylphenol	5.17	108	1752503	79.28	ppm	99
22)	n-Nitroso-di-n-propylamine	5.18	70	1313164	79.67	ppm	99
23)	Hexachloroethane	5.26	201	713347	79.95	ppm	87
26)	Nitrobenzene	5.30	77	2147480	79.67	ppm	96
27)	Quinoline	6.07	129	4207237	80.69	ppm	99
28)	Isophorone	5.47	82	3560554	79.75	ppm	97
29)	2-Nitrophenol	5.53	139	1072794	78.79	ppm	88
30)	2,4-Dimethylphenol	5.55	107	1867062	80.50	ppm	97
31)	Benzoic acid	5.64	105	1754892	86.02	ppm	96
32)	bis(2-Chloroethoxy)methane	5.62	93	2201059	79.78	ppm	99
33)	2,4-Dichlorophenol	5.70	162	1702377	79.77	ppm	98
34)	2,6-Dichlorophenol	5.86	162	1527098	79.28	ppm	98
35)	1,3,5-Trichlorobenzene	5.54	180	1612386	77.56	ppm	98
36)	1,2,4-Trichlorobenzene	5.76	180	1703831	79.32	ppm	99
37)	1,2,3-Trichlorobenzene	5.93	180	1653422	78.55	ppm	99
38)	Naphthalene	5.82	128	5210846	78.87	ppm	98
39)	4-Chloroaniline	5.86	127	2195979	79.16	ppm	99
40)	2,3-Dichloroaniline	6.56	161	1755819	78.96	ppm	97
41)	Caprolactam	6.13	55	872700	81.79	ppm	98
42)	Hexachlorobutadiene	5.90	225	791240	79.50	ppm	98
43)	4-Chloro-3-methylphenol	6.21	107	1726269	80.86	ppm	100
44)	2-Methylnaphthalene	6.34	141	3113016	79.13	ppm	99
45)	1-Methylnaphthalene	6.42	141	3188993	78.46	ppm	99
46)	Dimethylnaphthalene	6.87	156	3238997	78.90	ppm	99
48)	Hexachlorocyclopentadiene	6.46	237	1690587	158.61	ppm	100
49)	2,4,6-Trichlorophenol	6.56	196	965555	78.51	ppm	98
50)	2,4,5-Trichlorophenol	6.59	196	1215427	82.04	ppm	98
52)	2-Chloronaphthalene	6.74	162	3523183	79.95	ppm	98
53)	Biphenyl	6.72	154	4380247	79.25	ppm	96
54)	2-Nitroaniline	6.83	65	1137580	81.27	ppm	97
55)	Dimethylphthalate	6.99	163	4095162	81.03	ppm	99
56)	Acenaphthylene	7.13	152	5708953	81.13	ppm	98
57)	2,6-Dinitrotoluene	7.05	165	959498	80.78	ppm	99
58)	3-Nitroaniline	7.22	138	1200801	81.19	ppm	98
59)	Acenaphthene	7.31	153	3530348	80.01	ppm	96
60)	2,4-Dinitrophenol	7.33	184	1162305	164.62	ppm	97
61)	4-Nitrophenol	7.38	109	605426	81.98	ppm	97
62)	Dibenzofuran	7.50	168	4864463	80.12	ppm	99
63)	2,4-Dinitrotoluene	7.47	165	1324034	81.41	ppm	98
64)	2,3,4,6-Tetrachlorophenol	7.62	232	937948	81.64	ppm	96
65)	Diethylphthalate	7.75	149	4058066	80.04	ppm	98
66)	Fluorene	7.90	166	3521021	79.77	ppm	99
67)	4-Chlorophenyl-phenylether	7.89	204	1501482	79.02	ppm	98
68)	4-Nitroaniline	7.91	138	1214235	82.26	ppm	99

(#) = qualifier out of range (m) = manual integration

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156052.D Vial: 3
Acq On : 4 Apr 2016 7:38 pm Operator: sarad
Sample : ic6563-80 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 08:14:04 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:13:49 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
70)	4,6-Dinitro-2-methylphenol	7.95	198	785914	81.28	ppm	98
71)	n-Nitrosodiphenylamine	8.04	169	2958155	80.47	ppm	99
72)	1,2-Diphenylhydrazine	8.09	77	4213708	80.12	ppm	97
74)	4-Bromophenyl-phenylether	8.55	248	994002	81.06	ppm	97
75)	Hexachlorobenzene	8.63	284	945310	80.43	ppm	96
76)	Pentachlorophenol	8.92	266	1300970	159.47	ppm	96
77)	Phenanthrene	9.26	178	5752271	80.67	ppm	100
78)	Anthracene	9.34	178	5824392	79.84	ppm	100
79)	Carbazole	9.62	167	5550966	80.10	ppm	99
80)	Di-n-butylphthalate	10.33	149	7133269	80.93	ppm	99
81)	Fluoranthene	11.44	202	5981934	80.41	ppm	99
82)	Octadecane	9.11	57	2401312	78.54	ppm	97
84)	Pyrene	11.89	202	6287677	80.55	ppm	99
86)	Butylbenzylphthalate	13.49	149	3301200	81.88	ppm	98
87)	Butyl stearate	13.78	56	1791413	79.76	ppm	98
88)	Benzo[a]anthracene	14.53	228	5420519	81.47	ppm	100
89)	3,3'-Dichlorobenzidine	14.56	252	1990392	82.72	ppm	100
90)	Chrysene	14.61	228	5371405	81.40	ppm	100
91)	bis(2-Ethylhexyl)phthalate	14.91	149	4525592	80.25	ppm	100
93)	Di-n-octylphthalate	16.36	149	8079322	79.54	ppm	100
94)	Benzo[b]fluoranthene	16.85	252	5463606	80.05	ppm	98
95)	Benzo[k]fluoranthene	16.92	252	5260391	77.55	ppm	98
96)	Benzo[a]pyrene	17.49	252	5062293	80.00	ppm	100
97)	Indeno[1,2,3-cd]pyrene	19.55	276	4753743	80.82	ppm	99
98)	Dibenz(a,h)acridine	19.18	279	4103933	80.73	ppm	100
99)	Dibenz[a,h]anthracene	19.61	278	4734117	81.40	ppm	98
100)	7,12-Dimethylbenz(a)anthra	16.88	256	2332244	80.88	ppm	98
101)	Benzo[g,h,i]perylene	19.99	276	5078801	81.62	ppm	99

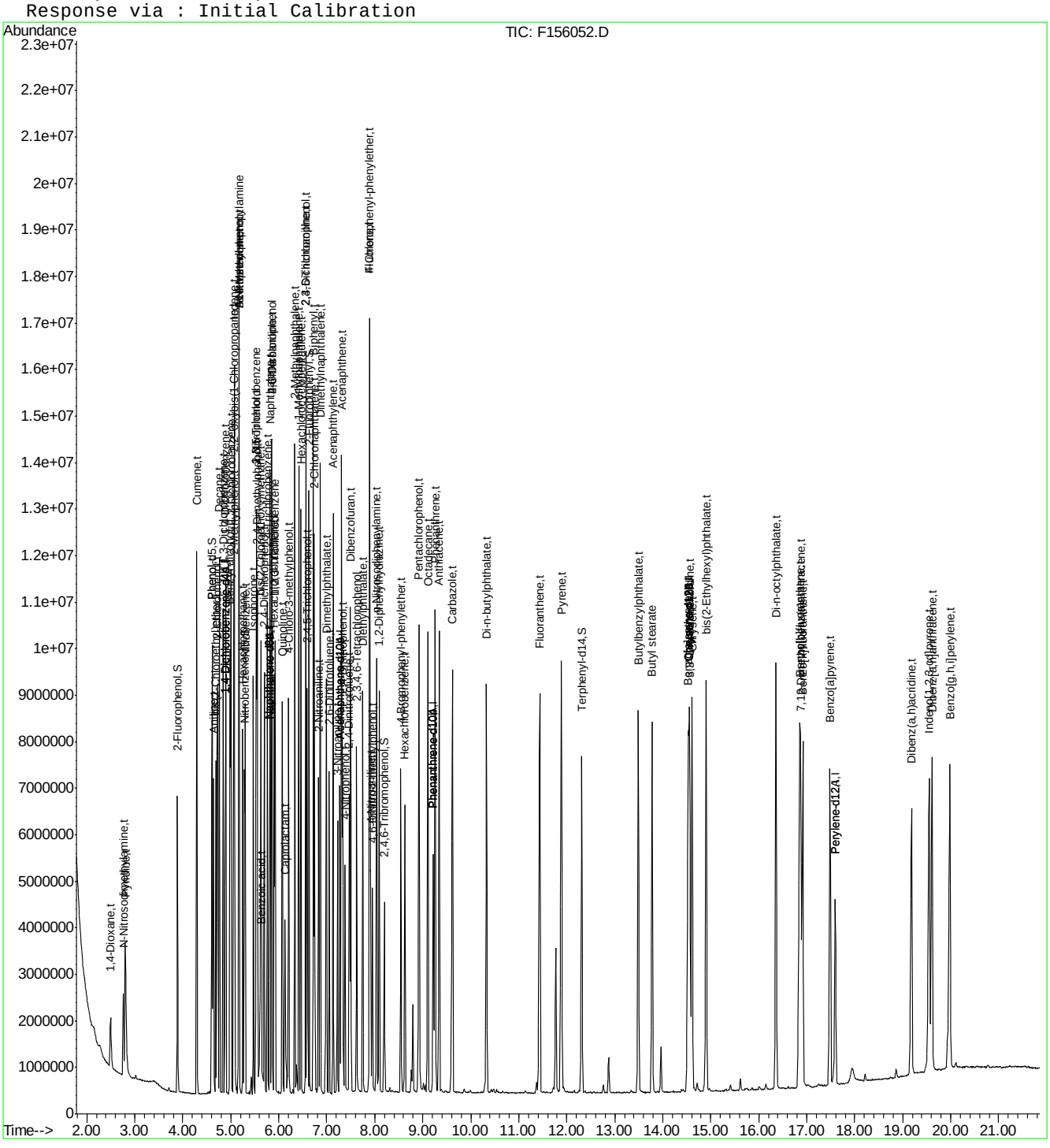
(#) = qualifier out of range (m) = manual integration (+) = signals summed
F156052.D MF6563.M Tue Apr 05 08:44:12 2016 RT1

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156052.D Vial: 3
Acq On : 4 Apr 2016 7:38 pm Operator: sarad
Sample : ic6563-80 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 5 8:44 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:42:42 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156053.D Vial: 4
Acq On : 4 Apr 2016 8:07 pm Operator: sarad
Sample : icc6563-50 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 08:46:02 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:46:00 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	871983	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	3243593	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	1949962	40.00	ppm	0.00
69) Phenanthrene-d10	9.22	188	3159351	40.00	ppm	0.00
83) Chrysene-d12	14.55	240	2526174	40.00	ppm	0.00
92) Perylene-d12	17.59	264	2502949	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.88	152	871983	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	3243593	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	1949962	40.00	ppm	0.00
132) Phenanthrene-d10A	9.22	188	3159351	40.00	ppm	0.00
147) Chrysene-d12A	14.55	240	2526174	40.00	ppm	0.00
155) Perylene-d12A	17.59	264	2502949	40.00	ppm	0.00
159) 1,4-Dichlorobenzene-d4b	4.88	152	871983	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	3243593	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	1949962	40.00	ppm	0.00
165) Phenanthrene-d10b	9.22	188	3159351	40.00	ppm	0.00
167) Chrysene-d12b	14.55	240	2526174	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.88	152	871983	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	3243593	40.00	ppm	0.00
176) Chrysene-d12c	14.55	240	2526174	40.00	ppm	0.00
178) Naphthalene-d8a	5.80	136	3243593	40.00	ppm	0.15
180) Chrysene-d12B	14.55	240	2526174	40.00	ppm	0.24
System Monitoring Compounds						
5) 2-Fluorophenol	3.89	112	1510498	51.35	ppm	0.00
Spiked Amount 50.000			Recovery	=	102.70%	
8) Phenol-d5	4.60	99	1817034	51.78	ppm	0.00
Spiked Amount 50.000			Recovery	=	103.56%	
25) Nitrobenzene-d5	5.28	82	1513443	51.96	ppm	0.00
Spiked Amount 50.000			Recovery	=	103.92%	
51) 2-Fluorobiphenyl	6.63	172	2889575	53.18	ppm	0.00
Spiked Amount 50.000			Recovery	=	106.36%	
73) 2,4,6-Tribromophenol	8.20	330	329797	52.51	ppm	0.00
Spiked Amount 50.000			Recovery	=	105.02%	
85) Terphenyl-d14	12.31	244	2605068	51.56	ppm	0.00
Spiked Amount 50.000			Recovery	=	103.12%	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.49	88	666778	53.27	ppm	95
3) Pyridine	2.79	79	1603285	49.91	ppm	100
4) N-Nitrosodimethylamine	2.76	42	564202	48.48	ppm	99
6) Indene	5.07	116	2405863	54.15	ppm	100
7) Cumene	4.29	105	3327601	52.82	ppm	100
9) Phenol	4.61	94	1896418	49.61	ppm	93
10) Aniline	4.64	93	1964758	52.52	ppm	100
11) bis(2-Chloroethyl)ether	4.69	93	1387751	51.78	ppm	100
12) 2-Chlorophenol	4.72	128	1558857	52.35	ppm	100
13) Decane	4.76	43	1282990	52.59	ppm	100
14) 1,3-Dichlorobenzene	4.84	146	1715893	52.65	ppm	100
15) 1,4-Dichlorobenzene	4.89	146	1704630	52.36	ppm	100

(#) = qualifier out of range (m) = manual integration
F156053.D MF6563.M Tue Apr 05 08:47:21 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156053.D Vial: 4
Acq On : 4 Apr 2016 8:07 pm Operator: sarad
Sample : icc6563-50 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 08:46:02 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:46:00 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
16) Benzyl alcohol	4.98	108	999116	51.84	ppm	100
17) 1,2-Dichlorobenzene	5.01	146	1596681	53.45	ppm	100
18) Acetophenone	5.17	105	1790578	53.79	ppm	100
19) 2-Methylphenol	5.05	108	1349727	52.72	ppm	100
20) 2,2'-oxybis(1-Chloropropan	5.08	121	483612	53.06	ppm	100
21) 3&4-Methylphenol	5.17	108	1347184	53.62	ppm	100
22) n-Nitroso-di-n-propylamine	5.17	70	974183	51.88	ppm	100
23) Hexachloroethane	5.25	201	533108	52.39	ppm	100
26) Nitrobenzene	5.29	77	1579979	52.28	ppm	100
27) Quinoline	6.07	129	3039806	51.77	ppm	100
28) Isophorone	5.47	82	2628484	52.49	ppm	100
29) 2-Nitrophenol	5.52	139	809389	53.21	ppm	100
30) 2,4-Dimethylphenol	5.55	107	1338514	51.29	ppm	100
31) Benzoic acid	5.63	105	1201010	51.15	ppm	100
32) bis(2-Chloroethoxy)methane	5.62	93	1622282	52.42	ppm	100
33) 2,4-Dichlorophenol	5.70	162	1261730	52.70	ppm	100
34) 2,6-Dichlorophenol	5.86	162	1160131	53.80	ppm	100
35) 1,3,5-Trichlorobenzene	5.54	180	1261006	54.58	ppm	100
36) 1,2,4-Trichlorobenzene	5.76	180	1289139	53.60	ppm	100
37) 1,2,3-Trichlorobenzene	5.92	180	1268943	54.02	ppm	100
38) Naphthalene	5.82	128	4111706	55.69	ppm	100
39) 4-Chloroaniline	5.85	127	1678939	54.09	ppm	100
40) 2,3-Dichloroaniline	6.56	161	1346445	54.16	ppm	100
41) Caprolactam	6.12	55	613796	50.85	ppm	100
42) Hexachlorobutadiene	5.90	225	599845	53.79	ppm	100
43) 4-Chloro-3-methylphenol	6.20	107	1251313	52.01	ppm	100
44) 2-Methylnaphthalene	6.33	141	2358934	53.60	ppm	100
45) 1-Methylnaphthalene	6.41	141	2439588	53.80	ppm	100
46) Dimethylnaphthalene	6.86	156	2476399	53.97	ppm	100
48) Hexachlorocyclopentadiene	6.46	237	1305240	108.31	ppm	100
49) 2,4,6-Trichlorophenol	6.56	196	762268	55.01	ppm	100
50) 2,4,5-Trichlorophenol	6.59	196	869436	51.31	ppm	100
52) 2-Chloronaphthalene	6.74	162	2649514	53.04	ppm	100
53) Biphenyl	6.72	154	3366639	53.89	ppm	100
54) 2-Nitroaniline	6.82	65	814469	51.05	ppm	100
55) Dimethylphthalate	6.99	163	3008660	52.28	ppm	100
56) Acenaphthylene	7.13	152	4284263	53.44	ppm	100
57) 2,6-Dinitrotoluene	7.05	165	698403	51.69	ppm	100
58) 3-Nitroaniline	7.22	138	861937	51.14	ppm	100
59) Acenaphthene	7.31	153	2658055	53.13	ppm	100
60) 2,4-Dinitrophenol	7.32	184	800604	99.05	ppm	100
61) 4-Nitrophenol	7.37	109	412116	48.92	ppm	100
62) Dibenzofuran	7.49	168	3640302	52.85	ppm	100
63) 2,4-Dinitrotoluene	7.46	165	948033	51.11	ppm	100
64) 2,3,4,6-Tetrachlorophenol	7.62	232	680751	51.90	ppm	100
65) Diethylphthalate	7.75	149	3011705	52.38	ppm	100
66) Fluorene	7.89	166	2684681	53.69	ppm	100
67) 4-Chlorophenyl-phenylether	7.89	204	1162378	54.17	ppm	100
68) 4-Nitroaniline	7.91	138	850105	50.32	ppm	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156053.D Vial: 4
Acq On : 4 Apr 2016 8:07 pm Operator: sarad
Sample : icc6563-50 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 08:46:02 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:46:00 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
70)	4,6-Dinitro-2-methylphenol	7.94	198	547100	50.35	ppm	100
71)	n-Nitrosodiphenylamine	8.04	169	2171178	52.74	ppm	100
72)	1,2-Diphenylhydrazine	8.09	77	3056349	51.97	ppm	100
74)	4-Bromophenyl-phenylether	8.54	248	721480	52.41	ppm	100
75)	Hexachlorobenzene	8.63	284	694643	52.78	ppm	100
76)	Pentachlorophenol	8.92	266	969858	106.48	ppm	100
77)	Phenanthrene	9.25	178	4222158	52.83	ppm	100
78)	Anthracene	9.34	178	4326567	53.10	ppm	100
79)	Carbazole	9.61	167	4045902	52.22	ppm	100
80)	Di-n-butylphthalate	10.33	149	5229224	52.88	ppm	100
81)	Fluoranthene	11.43	202	4365246	52.41	ppm	100
82)	Octadecane	9.10	57	1802615	53.07	ppm	100
84)	Pyrene	11.88	202	4516342	51.43	ppm	100
86)	Butylbenzylphthalate	13.49	149	2294077	50.29	ppm	100
87)	Butyl stearate	13.77	56	1294518	51.40	ppm	100
88)	Benzo[a]anthracene	14.53	228	3822200	50.86	ppm	100
89)	3,3'-Dichlorobenzidine	14.56	252	1356731	49.67	ppm	100
90)	Chrysene	14.61	228	3796706	50.96	ppm	100
91)	bis(2-Ethylhexyl)phthalate	14.90	149	3222419	50.85	ppm	100
93)	Di-n-octylphthalate	16.35	149	5703091	52.56	ppm	100
94)	Benzo[b]fluoranthene	16.84	252	3787237	51.78	ppm	98
95)	Benzo[k]fluoranthene	16.91	252	3710262	52.01	ppm	98
96)	Benzo[a]pyrene	17.48	252	3518005	52.01	ppm	100
97)	Indeno[1,2,3-cd]pyrene	19.54	276	3276791	51.83	ppm	100
98)	Dibenz(a,h)acridine	19.18	279	2819743	51.70	ppm	100
99)	Dibenz[a,h]anthracene	19.60	278	3172655	50.59	ppm	100
100)	7,12-Dimethylbenz(a)anthra	16.87	256	1624656	52.42	ppm	100
101)	Benzo[g,h,i]perylene	19.98	276	3454887	51.57	ppm	100

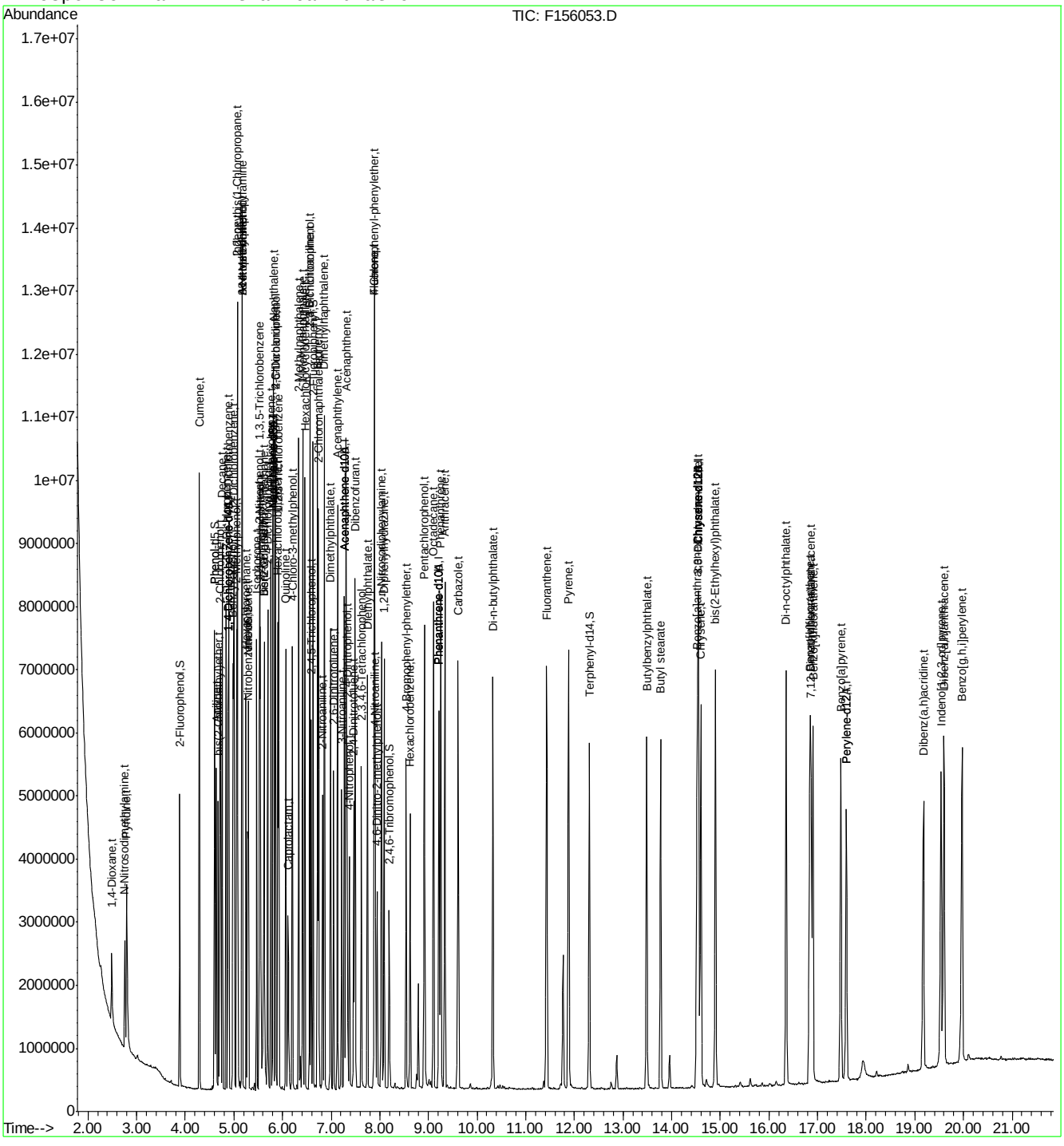
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156053.D Vial: 4
Acq On : 4 Apr 2016 8:07 pm Operator: sarad
Sample : icc6563-50 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 5 8:47 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:46:00 2016
Response via : Initial Calibration



F156053.D MF6563.M Tue Apr 05 08:47:21 2016 RT1 Page 4

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156054.D Vial: 5
Acq On : 4 Apr 2016 8:37 pm Operator: sarad
Sample : ic6563-25 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 08:51:15 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:51:13 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	863972	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	3172306	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	1883448	40.00	ppm	0.00
69) Phenanthrene-d10	9.22	188	3035235	40.00	ppm	0.00
83) Chrysene-d12	14.54	240	2628411	40.00	ppm	0.00
92) Perylene-d12	17.59	264	2496395	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.88	152	863972	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	3172306	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	1883448	40.00	ppm	0.00
132) Phenanthrene-d10A	9.22	188	3035235	40.00	ppm	0.00
147) Chrysene-d12A	14.54	240	2628411	40.00	ppm	0.00
155) Perylene-d12A	17.59	264	2496395	40.00	ppm	0.00
159) 1,4-Dichlorobenzene-d4b	4.88	152	863972	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	3172306	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	1883448	40.00	ppm	0.00
165) Phenanthrene-d10b	9.22	188	3035235	40.00	ppm	0.00
167) Chrysene-d12b	14.54	240	2628411	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.88	152	863972	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	3172306	40.00	ppm	0.00
176) Chrysene-d12c	14.54	240	2628411	40.00	ppm	0.00
178) Naphthalene-d8a	5.80	136	3172306	40.00	ppm	0.15
180) Chrysene-d12B	14.54	240	2628411	40.00	ppm	0.24

System Monitoring Compounds						
5) 2-Fluorophenol	3.88	112	752440	25.82	ppm	0.00
Spiked Amount 50.000			Recovery = 51.64%			
8) Phenol-d5	4.60	99	912194	26.24	ppm	0.00
Spiked Amount 50.000			Recovery = 52.48%			
25) Nitrobenzene-d5	5.28	82	742392	26.06	ppm	0.00
Spiked Amount 50.000			Recovery = 52.12%			
51) 2-Fluorobiphenyl	6.63	172	1516539	28.90	ppm	0.00
Spiked Amount 50.000			Recovery = 57.80%			
73) 2,4,6-Tribromophenol	8.19	330	156688	25.97	ppm	0.00
Spiked Amount 50.000			Recovery = 51.94%			
85) Terphenyl-d14	12.30	244	1350753	25.70	ppm	0.00
Spiked Amount 50.000			Recovery = 51.40%			

Target Compounds						Qvalue
2) 1,4-Dioxane	2.49	88	300998	24.02	ppm	92
3) Pyridine	2.79	79	803322	25.24	ppm	97
4) N-Nitrosodimethylamine	2.76	42	267516	24.06	ppm	91
6) Indene	5.07	116	1283677	29.16	ppm	99
7) Cumene	4.29	105	1729204	27.70	ppm	99
9) Phenol	4.61	94	960339	25.36	ppm	88
10) Aniline	4.63	93	1040023	28.06	ppm	99
11) bis(2-Chloroethyl)ether	4.68	93	693596	26.12	ppm	98
12) 2-Chlorophenol	4.72	128	794091	26.91	ppm	97
13) Decane	4.76	43	685617	28.36	ppm	98
14) 1,3-Dichlorobenzene	4.84	146	888469	27.51	ppm	98
15) 1,4-Dichlorobenzene	4.89	146	886953	27.50	ppm	97

(#) = qualifier out of range (m) = manual integration
F156054.D MF6563.M Tue Apr 05 08:55:03 2016 RT1

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156054.D Vial: 5
Acq On : 4 Apr 2016 8:37 pm Operator: sarad
Sample : ic6563-25 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 08:51:15 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:51:13 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
16)	Benzyl alcohol	4.97	108	502295	26.30	ppm	98
17)	1,2-Dichlorobenzene	5.01	146	840153	28.38	ppm	98
18)	Acetophenone	5.17	105	971192	29.45	ppm	89
19)	2-Methylphenol	5.05	108	686123	27.05	ppm	97
20)	2,2'-oxybis(1-Chloropropan	5.08	121	246770	27.32	ppm	99
21)	3&4-Methylphenol	5.16	108	709224	28.49	ppm	99
22)	n-Nitroso-di-n-propylamine	5.17	70	507230	27.26	ppm	99
23)	Hexachloroethane	5.25	201	272875	27.06	ppm	96
26)	Nitrobenzene	5.29	77	787089	26.64	ppm	95
27)	Quinoline	6.06	129	1538109	26.79	ppm	98
28)	Isophorone	5.47	82	1342384	27.41	ppm	98
29)	2-Nitrophenol	5.52	139	416350	27.99	ppm	96
30)	2,4-Dimethylphenol	5.55	107	634238	24.85	ppm	98
31)	Benzoic acid	5.61	105	560004	24.39	ppm	94
32)	bis(2-Chloroethoxy)methane	5.62	93	828882	27.39	ppm	99
33)	2,4-Dichlorophenol	5.70	162	644033	27.51	ppm	97
34)	2,6-Dichlorophenol	5.86	162	612096	29.02	ppm	98
35)	1,3,5-Trichlorobenzene	5.54	180	673723	29.81	ppm	99
36)	1,2,4-Trichlorobenzene	5.76	180	660441	28.08	ppm	98
37)	1,2,3-Trichlorobenzene	5.92	180	642498	27.96	ppm	100
38)	Naphthalene	5.82	128	2197280	30.43	ppm	98
39)	4-Chloroaniline	5.85	127	899321	29.62	ppm	97
40)	2,3-Dichloroaniline	6.56	161	746079	30.69	ppm	99
41)	Caprolactam	6.10	55	301563	25.55	ppm	98
42)	Hexachlorobutadiene	5.90	225	317763	29.13	ppm	99
43)	4-Chloro-3-methylphenol	6.20	107	625695	26.59	ppm	98
44)	2-Methylnaphthalene	6.33	141	1231532	28.61	ppm	99
45)	1-Methylnaphthalene	6.41	141	1267730	28.59	ppm	99
46)	Dimethylnaphthalene	6.86	156	1299211	28.95	ppm	98
48)	Hexachlorocyclopentadiene	6.46	237	688873	59.18	ppm	99
49)	2,4,6-Trichlorophenol	6.56	196	398885	29.80	ppm	97
50)	2,4,5-Trichlorophenol	6.59	196	444742	27.13	ppm	99
52)	2-Chloronaphthalene	6.74	162	1358812	28.16	ppm	97
53)	Biphenyl	6.72	154	1783507	29.56	ppm	99
54)	2-Nitroaniline	6.82	65	394873	25.62	ppm	91
55)	Dimethylphthalate	6.98	163	1540455	27.71	ppm	99
56)	Acenaphthylene	7.13	152	2244918	28.99	ppm	99
57)	2,6-Dinitrotoluene	7.05	165	338348	25.93	ppm	91
58)	3-Nitroaniline	7.21	138	432182	26.55	ppm	97
59)	Acenaphthene	7.30	153	1404418	29.06	ppm	99
60)	2,4-Dinitrophenol	7.32	184	362949	46.49	ppm	85
61)	4-Nitrophenol	7.37	109	201885	25.03	ppm	97
62)	Dibenzofuran	7.49	168	1900959	28.57	ppm	97
63)	2,4-Dinitrotoluene	7.46	165	472912	26.39	ppm	98
64)	2,3,4,6-Tetrachlorophenol	7.62	232	342001	27.00	ppm	97
65)	Diethylphthalate	7.74	149	1515673	27.29	ppm	99
66)	Fluorene	7.89	166	1468152	30.40	ppm	100
67)	4-Chlorophenyl-phenylether	7.89	204	635326	30.66	ppm	98
68)	4-Nitroaniline	7.90	138	421135	25.81	ppm	98

(#) = qualifier out of range (m) = manual integration

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156054.D Vial: 5
Acq On : 4 Apr 2016 8:37 pm Operator: sarad
Sample : ic6563-25 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 08:51:15 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:51:13 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
70)	4,6-Dinitro-2-methylphenol	7.94	198	246086	23.58	ppm	97
71)	n-Nitrosodiphenylamine	8.03	169	1095544	27.70	ppm	98
72)	1,2-Diphenylhydrazine	8.09	77	1514394	26.80	ppm	97
74)	4-Bromophenyl-phenylether	8.54	248	374041	28.28	ppm	96
75)	Hexachlorobenzene	8.62	284	344952	27.28	ppm	95
76)	Pentachlorophenol	8.91	266	505532	57.77	ppm	98
77)	Phenanthrene	9.25	178	2198868	28.64	ppm	98
78)	Anthracene	9.33	178	2208822	28.27	ppm	100
79)	Carbazole	9.61	167	2104374	28.33	ppm	98
80)	Di-n-butylphthalate	10.32	149	2655403	27.95	ppm	100
81)	Fluoranthene	11.43	202	2205706	27.57	ppm	100
82)	Octadecane	9.10	57	918139	28.14	ppm	99
84)	Pyrene	11.88	202	2354708	25.79	ppm	99
86)	Butylbenzylphthalate	13.48	149	1160576	24.47	ppm	99
87)	Butyl stearate	13.77	56	647006	24.74	ppm	98
88)	Benzo[a]anthracene	14.52	228	1967547	25.14	ppm	99
89)	3,3'-Dichlorobenzidine	14.55	252	702116	24.70	ppm	98
90)	Chrysene	14.60	228	1973288	25.50	ppm	100
91)	bis(2-Ethylhexyl)phthalate	14.89	149	1641094	24.90	ppm	100
93)	Di-n-octylphthalate	16.35	149	2891187	26.74	ppm	100
94)	Benzo[b]fluoranthene	16.83	252	1957203	27.04	ppm	99
95)	Benzo[k]fluoranthene	16.89	252	1936392	27.42	ppm	98
96)	Benzo[a]pyrene	17.47	252	1798129	26.71	ppm	99
97)	Indeno[1,2,3-cd]pyrene	19.53	276	1680946	26.64	ppm	96
98)	Dibenz(a,h)acridine	19.17	279	1452033	26.68	ppm	99
99)	Dibenz[a,h]anthracene	19.59	278	1627629	26.33	ppm	99
100)	7,12-Dimethylbenz(a)anthra	16.86	256	823820	26.64	ppm	99
101)	Benzo[g,h,i]perylene	19.96	276	1813089	27.19	ppm	98

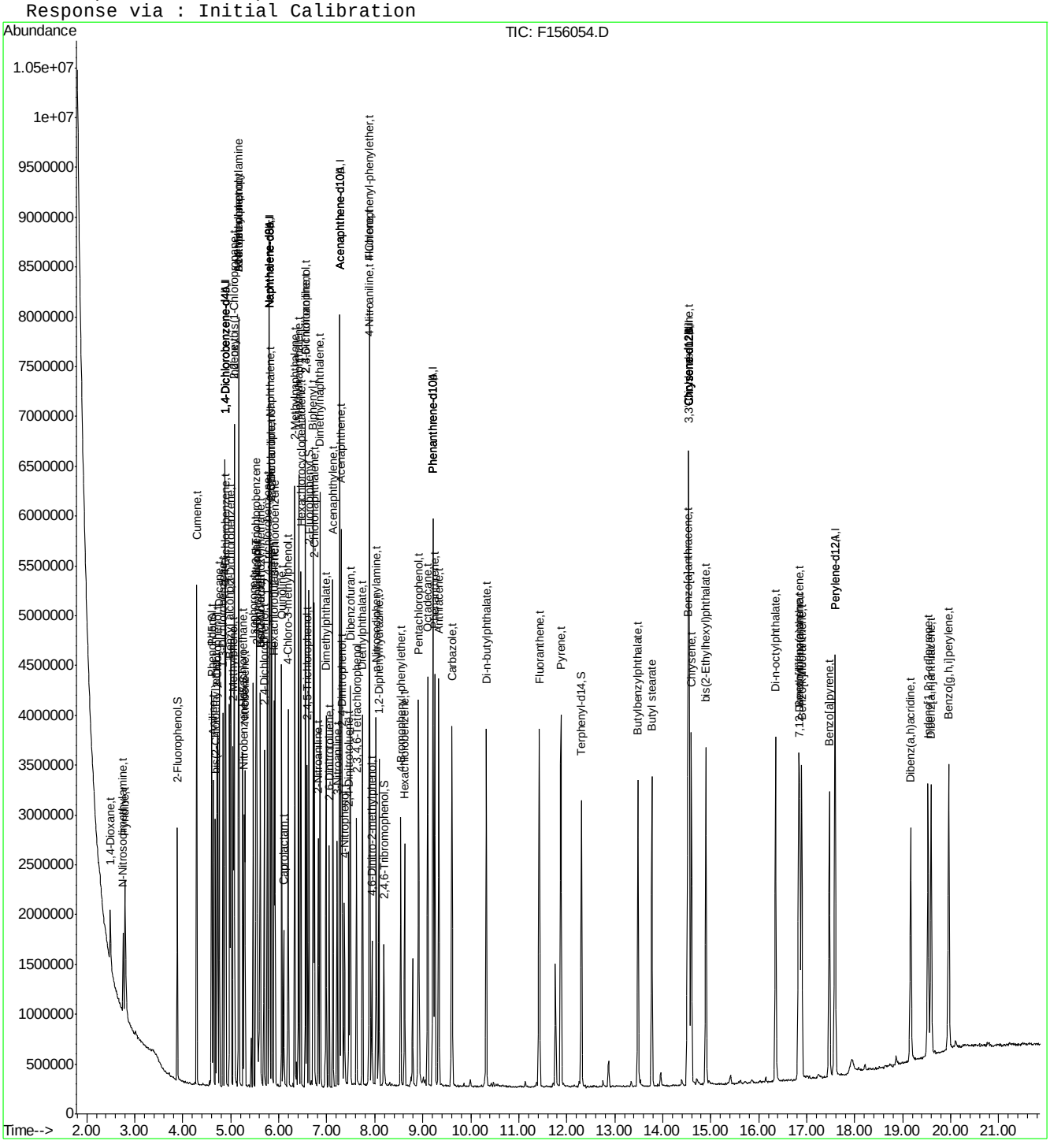
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156054.D Vial: 5
Acq On : 4 Apr 2016 8:37 pm Operator: sarad
Sample : ic6563-25 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 5 8:54 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:51:13 2016
Response via : Initial Calibration



SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156055.D Vial: 6
Acq On : 4 Apr 2016 9:06 pm Operator: sarad
Sample : ic6563-10 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 08:14:11 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:13:49 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	905594	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	3313258	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	1977563	40.00	ppm	0.00
69) Phenanthrene-d10	9.21	188	3195086	40.00	ppm	0.00
83) Chrysene-d12	14.54	240	2841277	40.00	ppm	-0.01
92) Perylene-d12	17.59	264	2625091	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.88	152	905594	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	3313258	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	1977563	40.00	ppm	0.00
132) Phenanthrene-d10A	9.21	188	3195086	40.00	ppm	0.00
147) Chrysene-d12A	14.54	240	2841277	40.00	ppm	-0.01
155) Perylene-d12A	17.59	264	2625091	40.00	ppm	-0.11
159) 1,4-Dichlorobenzene-d4b	4.88	152	905594	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	3313258	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	1977563	40.00	ppm	0.00
165) Phenanthrene-d10b	9.21	188	3195086	40.00	ppm	0.00
167) Chrysene-d12b	14.54	240	2841277	40.00	ppm	-0.01
169) 1,4-Dichlorobenzene-d4c	4.88	152	905594	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	3313258	40.00	ppm	0.00
176) Chrysene-d12c	14.54	240	2841277	40.00	ppm	-0.01
178) Naphthalene-d8a	5.80	136	3313258	40.00	ppm	0.15
180) Chrysene-d12B	14.54	240	2841277	40.00	ppm	0.23
System Monitoring Compounds						
5) 2-Fluorophenol	3.88	112	318354	10.42	ppm	0.00
Spiked Amount 50.000			Recovery = 20.84%			
8) Phenol-d5	4.60	99	398798	10.95	ppm	0.00
Spiked Amount 50.000			Recovery = 21.90%			
25) Nitrobenzene-d5	5.28	82	320247	10.73	ppm	0.00
Spiked Amount 50.000			Recovery = 21.46%			
51) 2-Fluorobiphenyl	6.63	172	673076	12.20	ppm	0.00
Spiked Amount 50.000			Recovery = 24.40%			
73) 2,4,6-Tribromophenol	8.19	330	66985	10.52	ppm	0.00
Spiked Amount 50.000			Recovery = 21.04%			
85) Terphenyl-d14	12.30	244	580883	10.26	ppm	0.00
Spiked Amount 50.000			Recovery = 20.52%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.49	88	156183	11.86	ppm	97
3) Pyridine	2.80	79	349091	10.51	ppm	99
4) N-Nitrosodimethylamine	2.76	42	113073	8.87	ppm	97
6) Indene	5.07	116	570276	12.31	ppm	100
7) Cumene	4.29	105	746757	11.46	ppm	99
9) Phenol	4.61	94	411742	10.58	ppm	94
10) Aniline	4.63	93	477431	12.36	ppm	99
11) bis(2-Chloroethyl)ether	4.68	93	302414	10.87	ppm	98
12) 2-Chlorophenol	4.72	128	344498	11.11	ppm	96
13) Decane	4.76	43	298455	11.75	ppm	97
14) 1,3-Dichlorobenzene	4.84	146	391842	11.55	ppm	97
15) 1,4-Dichlorobenzene	4.89	146	393136	11.63	ppm	99

(#) = qualifier out of range (m) = manual integration
F156055.D MF6563.M Tue Apr 05 08:56:35 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156055.D Vial: 6
Acq On : 4 Apr 2016 9:06 pm Operator: sarad
Sample : ic6563-10 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 08:14:11 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:13:49 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
16)	Benzyl alcohol	4.97	108	222777	11.09	ppm		97
17)	1,2-Dichlorobenzene	5.00	146	367366	11.76	ppm		98
18)	Acetophenone	5.17	105	439501	12.65	ppm		95
19)	2-Methylphenol	5.05	108	299562	11.25	ppm		99
20)	2,2'-oxybis(1-Chloropropan	5.08	121	107662	11.31	ppm		96
21)	3&4-Methylphenol	5.16	108	316195	12.07	ppm		99
22)	n-Nitroso-di-n-propylamine	5.17	70	227077	11.63	ppm		98
23)	Hexachloroethane	5.25	201	116924	11.06	ppm		95
26)	Nitrobenzene	5.29	77	340147	11.00	ppm		92
27)	Quinoline	6.06	129	667853	11.17	ppm		99
28)	Isophorone	5.47	82	580700	11.34	ppm		100
29)	2-Nitrophenol	5.52	139	179684	11.51	ppm		92
30)	2,4-Dimethylphenol	5.55	107	267013	10.04	ppm		96
31)	Benzoic acid	5.59	105	225890	9.65	ppm	#	74
32)	bis(2-Chloroethoxy)methane	5.62	93	364338	11.51	ppm		98
33)	2,4-Dichlorophenol	5.69	162	279178	11.41	ppm		97
34)	2,6-Dichlorophenol	5.86	162	271818	12.30	ppm		96
35)	1,3,5-Trichlorobenzene	5.54	180	299476	12.56	ppm		97
36)	1,2,4-Trichlorobenzene	5.76	180	289266	11.74	ppm		99
37)	1,2,3-Trichlorobenzene	5.92	180	280336	11.61	ppm		99
38)	Naphthalene	5.82	128	990453	13.07	ppm		98
39)	4-Chloroaniline	5.85	127	411341	12.93	ppm		96
40)	2,3-Dichloroaniline	6.56	161	341826	13.40	ppm		97
41)	Caprolactam	6.09	55	128773	10.52	ppm		95
42)	Hexachlorobutadiene	5.90	225	137961	12.09	ppm		97
43)	4-Chloro-3-methylphenol	6.19	107	271558	11.09	ppm		99
44)	2-Methylnaphthalene	6.33	141	549250	12.17	ppm		98
45)	1-Methylnaphthalene	6.41	141	562852	12.07	ppm		98
46)	Dimethylnaphthalene	6.86	156	568349	12.07	ppm		97
48)	Hexachlorocyclopentadiene	6.46	237	295404	24.10	ppm		100
49)	2,4,6-Trichlorophenol	6.56	196	183214	12.96	ppm		97
50)	2,4,5-Trichlorophenol	6.58	196	189673	11.13	ppm		98
52)	2-Chloronaphthalene	6.74	162	606809	11.97	ppm		99
53)	Biphenyl	6.72	154	783724	12.33	ppm		98
54)	2-Nitroaniline	6.82	65	168174	10.45	ppm		93
55)	Dimethylphthalate	6.98	163	669711	11.52	ppm		99
56)	Acenaphthylene	7.13	152	984619	12.17	ppm		98
57)	2,6-Dinitrotoluene	7.04	165	144184	10.56	ppm		99
58)	3-Nitroaniline	7.21	138	181727	10.69	ppm		93
59)	Acenaphthene	7.30	153	609405	12.01	ppm		99
60)	2,4-Dinitrophenol	7.32	184	130327	16.05	ppm		78
61)	4-Nitrophenol	7.36	109	80472	9.48	ppm		94
62)	Dibenzofuran	7.49	168	843891	12.09	ppm		98
63)	2,4-Dinitrotoluene	7.46	165	195395	10.45	ppm		97
64)	2,3,4,6-Tetrachlorophenol	7.62	232	145578	11.02	ppm		97
65)	Diethylphthalate	7.74	149	649860	11.15	ppm		98
66)	Fluorene	7.89	166	666627	13.13	ppm		97
67)	4-Chlorophenyl-phenylether	7.89	204	292638	13.39	ppm		95
68)	4-Nitroaniline	7.89	138	183728	10.82	ppm		96

(#) = qualifier out of range (m) = manual integration

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156055.D Vial: 6
Acq On : 4 Apr 2016 9:06 pm Operator: sarad
Sample : ic6563-10 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 08:14:11 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:13:49 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
70)	4,6-Dinitro-2-methylphenol	7.93	198	92062	8.42	ppm	96
71)	n-Nitrosodiphenylamine	8.03	169	476719	11.47	ppm	99
72)	1,2-Diphenylhydrazine	8.08	77	657054	11.05	ppm	98
74)	4-Bromophenyl-phenylether	8.54	248	158586	11.44	ppm	96
75)	Hexachlorobenzene	8.62	284	153731	11.57	ppm	97
76)	Pentachlorophenol	8.91	266	205675	22.30	ppm	95
77)	Phenanthrene	9.25	178	978306	12.14	ppm	98
78)	Anthracene	9.33	178	967667	11.73	ppm	99
79)	Carbazole	9.61	167	912387	11.65	ppm	99
80)	Di-n-butylphthalate	10.32	149	1128842	11.33	ppm	100
81)	Fluoranthene	11.42	202	946511	11.26	ppm	100
82)	Octadecane	9.10	57	398210	11.52	ppm	98
84)	Pyrene	11.87	202	1015323	10.30	ppm	99
86)	Butylbenzylphthalate	13.48	149	485601	9.54	ppm	97
87)	Butyl stearate	13.77	56	271564	9.58	ppm	99
88)	Benzo[a]anthracene	14.52	228	842177	10.03	ppm	99
89)	3,3'-Dichlorobenzidine	14.55	252	303885	10.00	ppm	98
90)	Chrysene	14.59	228	857826	10.30	ppm	100
91)	bis(2-Ethylhexyl)phthalate	14.89	149	683429	9.60	ppm	97
93)	Di-n-octylphthalate	16.35	149	1196588	10.50	ppm	99
94)	Benzo[b]fluoranthene	16.83	252	846094	11.04	ppm	98
95)	Benzo[k]fluoranthene	16.89	252	829903	10.90	ppm	99
96)	Benzo[a]pyrene	17.46	252	754900	10.63	ppm	98
97)	Indeno[1,2,3-cd]pyrene	19.52	276	702662	10.64	ppm	94
98)	Dibenz(a,h)acridine	19.16	279	610277	10.70	ppm	100
99)	Dibenz[a,h]anthracene	19.58	278	696447	10.67	ppm	97
100)	7,12-Dimethylbenz(a)anthra	16.84	256	325014	10.04	ppm	99
101)	Benzo[g,h,i]perylene	19.95	276	764066	10.94	ppm	97

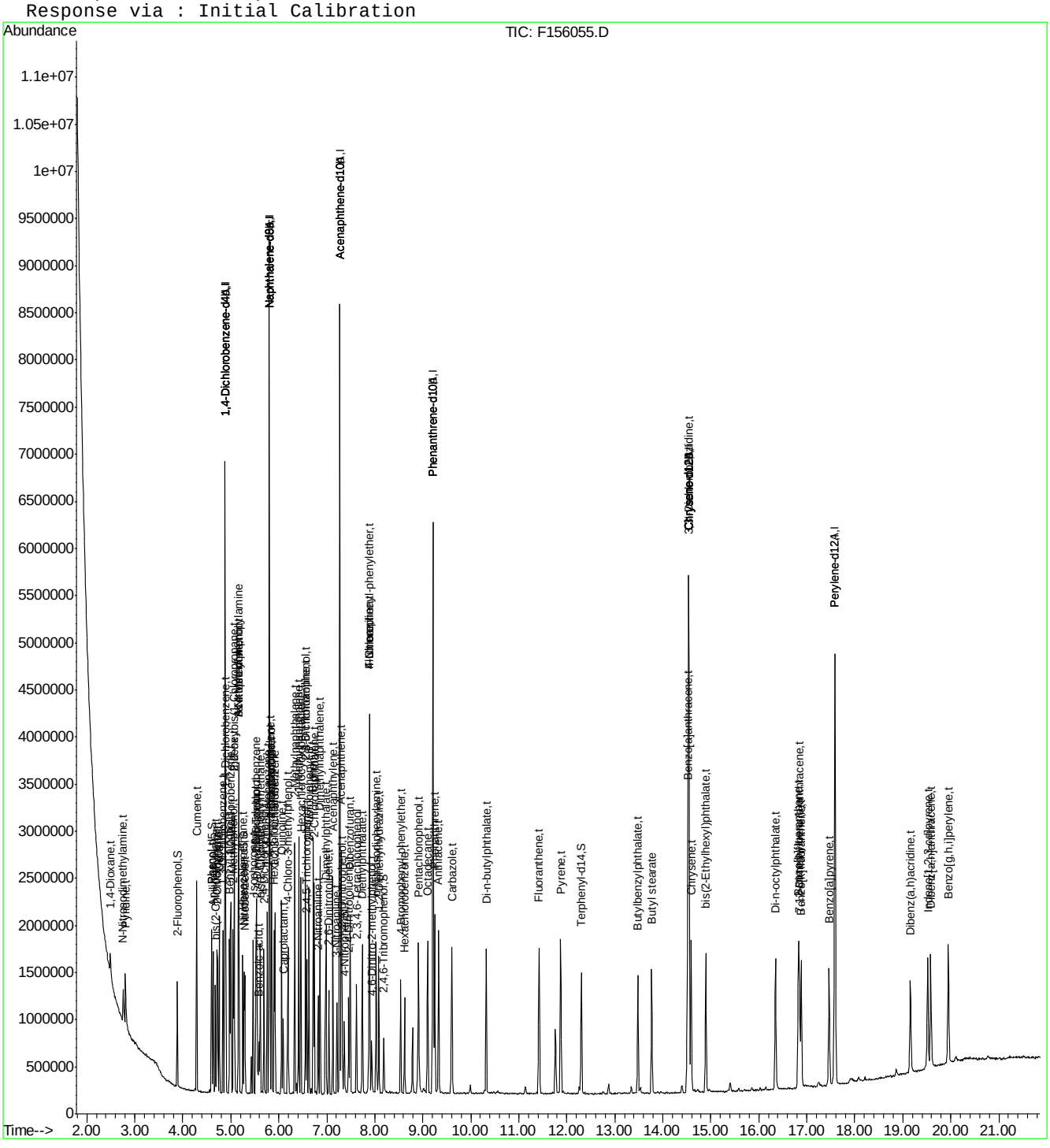
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156055.D Vial: 6
Acq On : 4 Apr 2016 9:06 pm Operator: sarad
Sample : ic6563-10 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 5 8:56 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:55:08 2016
Response via : Initial Calibration



SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156056.D Vial: 7
Acq On : 4 Apr 2016 9:35 pm Operator: sarad
Sample : ic6563-5 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 08:14:13 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:13:49 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	931507	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	3436758	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	2021007	40.00	ppm	0.00
69) Phenanthrene-d10	9.21	188	3225697	40.00	ppm	0.00
83) Chrysene-d12	14.54	240	2893026	40.00	ppm	-0.01
92) Perylene-d12	17.59	264	2659500	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.88	152	931507	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	3436758	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	2021007	40.00	ppm	0.00
132) Phenanthrene-d10A	9.21	188	3225697	40.00	ppm	0.00
147) Chrysene-d12A	14.54	240	2893026	40.00	ppm	-0.01
155) Perylene-d12A	17.59	264	2659500	40.00	ppm	-0.11
159) 1,4-Dichlorobenzene-d4b	4.88	152	931507	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	3436758	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	2021007	40.00	ppm	0.00
165) Phenanthrene-d10b	9.21	188	3225697	40.00	ppm	0.00
167) Chrysene-d12b	14.54	240	2893026	40.00	ppm	-0.01
169) 1,4-Dichlorobenzene-d4c	4.88	152	931507	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	3436758	40.00	ppm	0.00
176) Chrysene-d12c	14.54	240	2893026	40.00	ppm	-0.01
178) Naphthalene-d8a	5.80	136	3436758	40.00	ppm	0.15
180) Chrysene-d12B	14.54	240	2893026	40.00	ppm	0.23

System Monitoring Compounds						
5) 2-Fluorophenol	3.88	112	171255	5.45	ppm	0.00
Spiked Amount 50.000			Recovery	=	10.90%	
8) Phenol-d5	4.59	99	207335	5.53	ppm	0.00
Spiked Amount 50.000			Recovery	=	11.06%	
25) Nitrobenzene-d5	5.28	82	169051	5.46	ppm	0.00
Spiked Amount 50.000			Recovery	=	10.92%	
51) 2-Fluorobiphenyl	6.63	172	352630	6.25	ppm	0.00
Spiked Amount 50.000			Recovery	=	12.50%	
73) 2,4,6-Tribromophenol	8.18	330	34343	5.34	ppm	-0.01
Spiked Amount 50.000			Recovery	=	10.68%	
85) Terphenyl-d14	12.30	244	301180	5.22	ppm	0.00
Spiked Amount 50.000			Recovery	=	10.44%	

Target Compounds						Qvalue
2) 1,4-Dioxane	2.49	88	87752	6.48	ppm	95
3) Pyridine	2.81	79	176084	5.15	ppm	98
4) N-Nitrosodimethylamine	2.76	42	63395	4.83	ppm	96
6) Indene	5.07	116	305528	6.41	ppm	99
7) Cumene	4.29	105	397141	5.93	ppm	97
9) Phenol	4.61	94	216569	5.41	ppm	93
10) Aniline	4.63	93	257505	6.48	ppm	92
11) bis(2-Chloroethyl)ether	4.68	93	162439	5.68	ppm	99
12) 2-Chlorophenol	4.72	128	184524	5.79	ppm	98
13) Decane	4.76	43	158573	6.07	ppm	95
14) 1,3-Dichlorobenzene	4.84	146	203800	5.84	ppm	100
15) 1,4-Dichlorobenzene	4.89	146	208865	6.01	ppm	96

(#) = qualifier out of range (m) = manual integration
F156056.D MF6563.M Tue Apr 05 08:57:58 2016 RT1

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156056.D Vial: 7
Acq On : 4 Apr 2016 9:35 pm Operator: sarad
Sample : ic6563-5 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 08:14:13 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:13:49 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
16) Benzyl alcohol	4.97	108	115910	5.61	ppm		97
17) 1,2-Dichlorobenzene	5.00	146	195335	6.08	ppm		98
18) Acetophenone	5.17	105	235469	6.59	ppm		92
19) 2-Methylphenol	5.05	108	157196	5.74	ppm		98
20) 2,2'-oxybis(1-Chloropropan	5.08	121	59923	6.12	ppm		93
21) 3&4-Methylphenol	5.16	108	167369	6.21	ppm		98
22) n-Nitroso-di-n-propylamine	5.17	70	123649	6.16	ppm		95
23) Hexachloroethane	5.25	201	63788	5.87	ppm		90
26) Nitrobenzene	5.29	77	179935	5.61	ppm		98
27) Quinoline	6.06	129	349968	5.64	ppm		99
28) Isophorone	5.46	82	306735	5.78	ppm		96
29) 2-Nitrophenol	5.52	139	94069	5.81	ppm		92
30) 2,4-Dimethylphenol	5.55	107	139481	5.06	ppm		94
31) Benzoic acid	5.57	105	114126	4.70	ppm		91
32) bis(2-Chloroethoxy)methane	5.62	93	195998	5.97	ppm		98
33) 2,4-Dichlorophenol	5.69	162	145285	5.72	ppm		97
34) 2,6-Dichlorophenol	5.86	162	144546	6.31	ppm		99
35) 1,3,5-Trichlorobenzene	5.53	180	164116	6.64	ppm		96
36) 1,2,4-Trichlorobenzene	5.76	180	152578	5.97	ppm		98
37) 1,2,3-Trichlorobenzene	5.92	180	151509	6.05	ppm		97
38) Naphthalene	5.82	128	525580	6.69	ppm		99
39) 4-Chloroaniline	5.85	127	217464	6.59	ppm		98
40) 2,3-Dichloroaniline	6.56	161	176515	6.67	ppm		98
41) Caprolactam	6.09	55	64409	5.07	ppm		94
42) Hexachlorobutadiene	5.90	225	70966	5.99	ppm		97
43) 4-Chloro-3-methylphenol	6.19	107	146701	5.78	ppm		99
44) 2-Methylnaphthalene	6.33	141	291321	6.22	ppm		95
45) 1-Methylnaphthalene	6.41	141	300622	6.22	ppm		97
46) Dimethylnaphthalene	6.85	156	305639	6.26	ppm		98
48) Hexachlorocyclopentadiene	6.46	237	149951	11.97	ppm		99
49) 2,4,6-Trichlorophenol	6.56	196	95389	6.60	ppm		96
50) 2,4,5-Trichlorophenol	6.58	196	102296	5.88	ppm		96
52) 2-Chloronaphthalene	6.74	162	320335	6.19	ppm		98
53) Biphenyl	6.72	154	413488	6.37	ppm		98
54) 2-Nitroaniline	6.82	65	87377	5.31	ppm		100
55) Dimethylphthalate	6.98	163	349340	5.88	ppm		100
56) Acenaphthylene	7.13	152	517726	6.26	ppm		98
57) 2,6-Dinitrotoluene	7.04	165	73798	5.29	ppm		94
58) 3-Nitroaniline	7.21	138	91856	5.28	ppm		96
59) Acenaphthene	7.30	153	332260	6.41	ppm		99
60) 2,4-Dinitrophenol	7.31	184	55130	6.64	ppm	#	24
61) 4-Nitrophenol	7.36	109	41361	4.77	ppm		98
62) Dibenzofuran	7.49	168	449077	6.29	ppm		96
63) 2,4-Dinitrotoluene	7.46	165	100620	5.26	ppm		77
64) 2,3,4,6-Tetrachlorophenol	7.62	232	75026	5.56	ppm		98
65) Diethylphthalate	7.74	149	340318	5.71	ppm		98
66) Fluorene	7.89	166	360051	6.94	ppm		97
67) 4-Chlorophenyl-phenylether	7.89	204	156209	7.00	ppm		90
68) 4-Nitroaniline	7.89	138	94299	5.44	ppm		96

(#) = qualifier out of range (m) = manual integration

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156056.D Vial: 7
Acq On : 4 Apr 2016 9:35 pm Operator: sarad
Sample : ic6563-5 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 08:14:13 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:13:49 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
70)	4,6-Dinitro-2-methylphenol	7.93	198	40513	3.67	ppm	96
71)	n-Nitrosodiphenylamine	8.02	169	253978	6.05	ppm	99
72)	1,2-Diphenylhydrazine	8.08	77	341978	5.70	ppm	98
74)	4-Bromophenyl-phenylether	8.54	248	85099	6.08	ppm	94
75)	Hexachlorobenzene	8.62	284	81969	6.11	ppm	94
76)	Pentachlorophenol	8.91	266	106497	11.44	ppm	99
77)	Phenanthrene	9.25	178	508086	6.24	ppm	99
78)	Anthracene	9.33	178	512709	6.16	ppm	99
79)	Carbazole	9.60	167	468870	5.93	ppm	100
80)	Di-n-butylphthalate	10.32	149	589128	5.86	ppm	99
81)	Fluoranthene	11.42	202	495066	5.83	ppm	99
82)	Octadecane	9.10	57	206521	5.92	ppm	99
84)	Pyrene	11.87	202	528440	5.27	ppm	98
86)	Butylbenzylphthalate	13.48	149	250816	4.84	ppm	97
87)	Butyl stearate	13.77	56	136234	4.72	ppm	99
88)	Benzo[a]anthracene	14.52	228	433302	5.07	ppm	97
89)	3,3'-Dichlorobenzidine	14.55	252	156108	5.05	ppm	98
90)	Chrysene	14.59	228	448785	5.29	ppm	99
91)	bis(2-Ethylhexyl)phthalate	14.89	149	341191	4.71	ppm	96
93)	Di-n-octylphthalate	16.35	149	604939	5.24	ppm	98
94)	Benzo[b]fluoranthene	16.82	252	435201	5.61	ppm	99
95)	Benzo[k]fluoranthene	16.88	252	414541	5.37	ppm	99
96)	Benzo[a]pyrene	17.46	252	392090	5.45	ppm	99
97)	Indeno[1,2,3-cd]pyrene	19.52	276	353891	5.29	ppm	91
98)	Dibenz(a,h)acridine	19.16	279	308931	5.34	ppm	100
99)	Dibenz[a,h]anthracene	19.58	278	347003	5.25	ppm	95
100)	7,12-Dimethylbenz(a)anthra	16.84	256	162841	4.97	ppm	96
101)	Benzo[g,h,i]perylene	19.94	276	392199	5.54	ppm	96

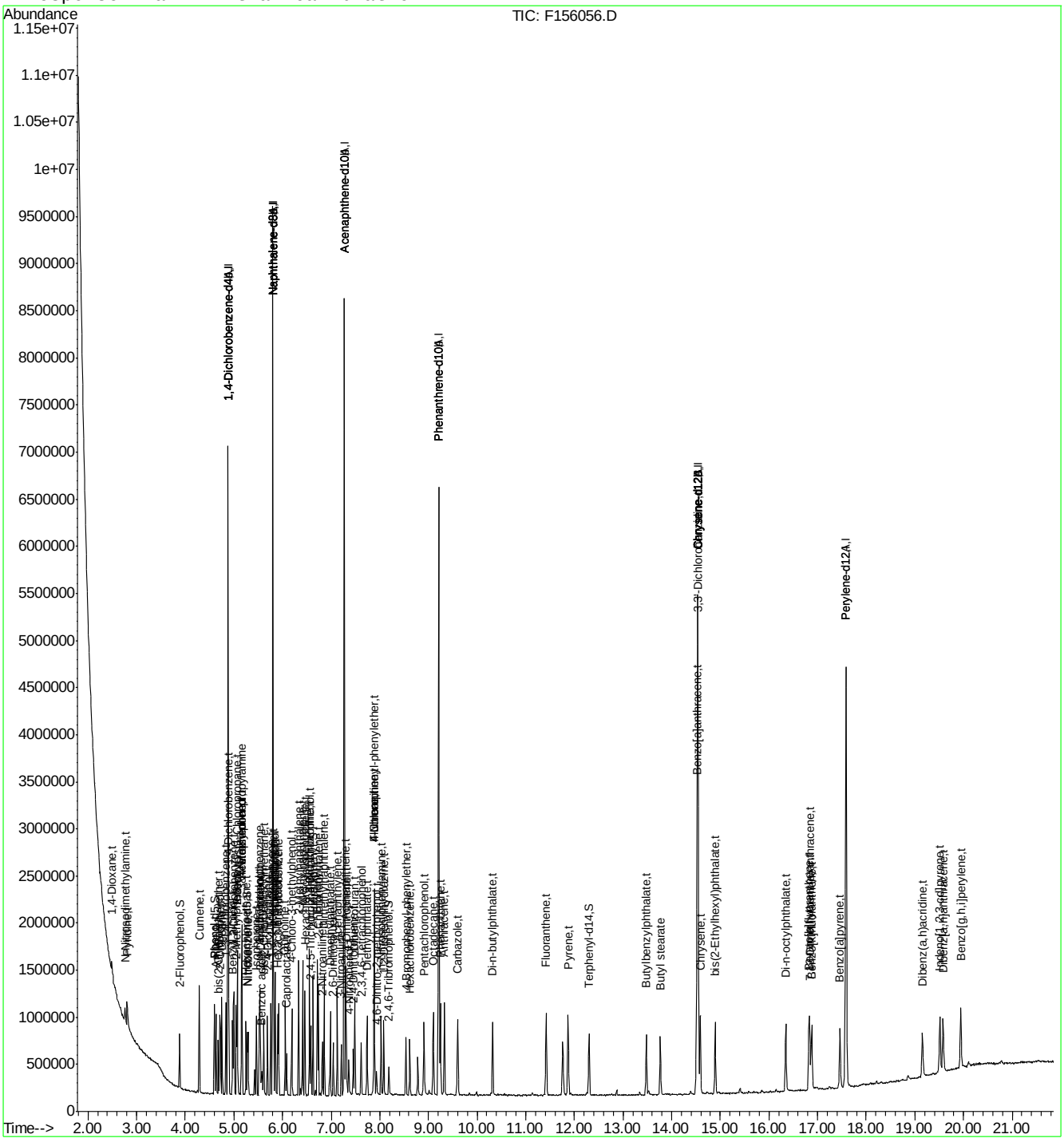
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156056.D Vial: 7
Acq On : 4 Apr 2016 9:35 pm Operator: sarad
Sample : ic6563-5 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 5 8:57 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:56:42 2016
Response via : Initial Calibration



SGS ACCUTEST JC20098

F156057.D

Manual Integrations APPROVED (compounds with "m" flag)
Kristi Schollenberger 04/06/16 15:11

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156057.D Vial: 8
Acq On : 4 Apr 2016 10:04 pm Operator: sarad
Sample : ic6563-2 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 09:16:53 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:16:50 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	918307	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	3392002	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	1972367	40.00	ppm	0.00
69) Phenanthrene-d10	9.21	188	3182891	40.00	ppm	0.00
83) Chrysene-d12	14.54	240	2811338	40.00	ppm	-0.01
92) Perylene-d12	17.59	264	2583255	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.88	152	918307	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	3392002	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	1972367	40.00	ppm	0.00
132) Phenanthrene-d10A	9.21	188	3182891	40.00	ppm	0.00
147) Chrysene-d12A	14.54	240	2811338	40.00	ppm	-0.01
155) Perylene-d12A	17.59	264	2583255	40.00	ppm	0.00
159) 1,4-Dichlorobenzene-d4b	4.88	152	918307	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	3392002	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	1972367	40.00	ppm	0.00
165) Phenanthrene-d10b	9.21	188	3182891	40.00	ppm	0.00
167) Chrysene-d12b	14.54	240	2811338	40.00	ppm	-0.01
169) 1,4-Dichlorobenzene-d4c	4.88	152	918307	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	3392002	40.00	ppm	0.00
176) Chrysene-d12c	14.54	240	2811338	40.00	ppm	-0.01
178) Naphthalene-d8a	5.80	136	3392002	40.00	ppm	0.15
180) Chrysene-d12B	14.54	240	2811338	40.00	ppm	0.23

System Monitoring Compounds						
5) 2-Fluorophenol	3.88	112	67381	2.12	ppm	0.00
Spiked Amount 50.000			Recovery = 4.24%			
8) Phenol-d5	4.59	99	82796	2.15	ppm	0.00
Spiked Amount 50.000			Recovery = 4.30%			
25) Nitrobenzene-d5	5.28	82	64774	2.05	ppm	0.00
Spiked Amount 50.000			Recovery = 4.10%			
51) 2-Fluorobiphenyl	6.63	172	142064	2.34	ppm	0.00
Spiked Amount 50.000			Recovery = 4.68%			
73) 2,4,6-Tribromophenol	8.19	330	13619	2.10	ppm	-0.01
Spiked Amount 50.000			Recovery = 4.20%			
85) Terphenyl-d14	12.30	244	115350	2.02	ppm	0.00
Spiked Amount 50.000			Recovery = 4.04%			

Target Compounds							Qvalue
2) 1,4-Dioxane	2.49	88	19952m	1.39	ppm		
3) Pyridine	2.82	79	62693	1.83	ppm		99
4) N-Nitrosodimethylamine	2.77	42	24930	2.11	ppm	#	71
6) Indene	5.07	116	122410	2.35	ppm		98
7) Cumene	4.29	105	157607	2.22	ppm		97
9) Phenol	4.60	94	87242	2.13	ppm		93
10) Aniline	4.63	93	104543	2.40	ppm		94
11) bis(2-Chloroethyl)ether	4.68	93	63459	2.15	ppm		100
12) 2-Chlorophenol	4.72	128	73140	2.20	ppm		98
13) Decane	4.76	43	65729	2.35	ppm		91
14) 1,3-Dichlorobenzene	4.84	146	81625	2.22	ppm		97
15) 1,4-Dichlorobenzene	4.89	146	80670	2.18	ppm		97

(#) = qualifier out of range (m) = manual integration
F156057.D MF6563.M Tue Apr 05 09:24:02 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156057.D Vial: 8
Acq On : 4 Apr 2016 10:04 pm Operator: sarad
Sample : ic6563-2 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 09:16:53 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:16:50 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
16)	Benzyl alcohol	4.97	108	45980	2.16	ppm		95
17)	1,2-Dichlorobenzene	5.00	146	77388	2.26	ppm		98
18)	Acetophenone	5.17	105	92358	2.33	ppm		92
19)	2-Methylphenol	5.05	108	61550	2.15	ppm		98
20)	2,2'-oxybis(1-Chloropropan	5.08	121	23816	2.30	ppm	#	84
21)	3&4-Methylphenol	5.16	108	63995	2.20	ppm		92
22)	n-Nitroso-di-n-propylamine	5.17	70	50208	2.35	ppm		96
23)	Hexachloroethane	5.25	201	24892	2.19	ppm		93
26)	Nitrobenzene	5.29	77	67438	2.04	ppm		96
27)	Quinoline	6.05	129	138065	2.14	ppm		98
28)	Isophorone	5.46	82	117937	2.12	ppm		96
29)	2-Nitrophenol	5.52	139	34742	2.03	ppm		85
30)	2,4-Dimethylphenol	5.55	107	53800	1.97	ppm		97
31)	Benzoic acid	5.57	105	40367	1.69	ppm		94
32)	bis(2-Chloroethoxy)methane	5.62	93	77708	2.24	ppm		98
33)	2,4-Dichlorophenol	5.69	162	57101	2.14	ppm		97
34)	2,6-Dichlorophenol	5.86	162	57136	2.28	ppm		99
35)	1,3,5-Trichlorobenzene	5.53	180	63320	2.31	ppm		97
36)	1,2,4-Trichlorobenzene	5.76	180	60630	2.23	ppm		97
37)	1,2,3-Trichlorobenzene	5.92	180	61163	2.30	ppm		93
38)	Naphthalene	5.82	128	211027	2.39	ppm		97
39)	4-Chloroaniline	5.85	127	85275	2.32	ppm		99
40)	2,3-Dichloroaniline	6.56	161	72171	2.41	ppm		96
41)	Caprolactam	6.08	55	25731	2.01	ppm		98
42)	Hexachlorobutadiene	5.90	225	30238	2.37	ppm		96
43)	4-Chloro-3-methylphenol	6.19	107	53743	2.03	ppm		95
44)	2-Methylnaphthalene	6.33	141	116051	2.29	ppm		97
45)	1-Methylnaphthalene	6.41	141	118123	2.26	ppm		94
46)	Dimethylnaphthalene	6.86	156	119350	2.25	ppm		99
48)	Hexachlorocyclopentadiene	6.46	237	55624	4.15	ppm		96
49)	2,4,6-Trichlorophenol	6.56	196	38754	2.43	ppm		97
50)	2,4,5-Trichlorophenol	6.58	196	39267	2.16	ppm		92
52)	2-Chloronaphthalene	6.74	162	124816	2.26	ppm		97
53)	Biphenyl	6.72	154	163283	2.32	ppm		98
54)	2-Nitroaniline	6.82	65	32355	1.97	ppm		90
55)	Dimethylphthalate	6.98	163	137083	2.20	ppm		99
56)	Acenaphthylene	7.13	152	204353	2.29	ppm		98
57)	2,6-Dinitrotoluene	7.04	165	25658	1.83	ppm		98
58)	3-Nitroaniline	7.21	138	34477	1.96	ppm		97
59)	Acenaphthene	7.30	153	128608	2.29	ppm		97
60)	2,4-Dinitrophenol	7.32	184	15677	2.14	ppm	#	46
61)	4-Nitrophenol	7.36	109	15018	1.81	ppm		96
62)	Dibenzofuran	7.49	168	174267	2.27	ppm		98
63)	2,4-Dinitrotoluene	7.45	165	36684	1.91	ppm		98
64)	2,3,4,6-Tetrachlorophenol	7.62	232	28627	2.06	ppm		94
65)	Diethylphthalate	7.74	149	134572	2.19	ppm		98
66)	Fluorene	7.89	166	138455	2.37	ppm		99
67)	4-Chlorophenyl-phenylether	7.89	204	64851	2.57	ppm		91
68)	4-Nitroaniline	7.89	138	34880	1.98	ppm		91

(#) = qualifier out of range (m) = manual integration

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156057.D Vial: 8
Acq On : 4 Apr 2016 10:04 pm Operator: sarad
Sample : ic6563-2 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 09:16:53 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:16:50 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
70)	4,6-Dinitro-2-methylphenol	7.93	198	11717	1.17	ppm	94
71)	n-Nitrosodiphenylamine	8.02	169	95889	2.15	ppm	96
72)	1,2-Diphenylhydrazine	8.08	77	131296	2.11	ppm	96
74)	4-Bromophenyl-phenylether	8.54	248	33407	2.23	ppm	97
75)	Hexachlorobenzene	8.62	284	31503	2.20	ppm	97
76)	Pentachlorophenol	8.91	266	39004	3.97	ppm	96
77)	Phenanthrene	9.25	178	200983	2.27	ppm	99
78)	Anthracene	9.33	178	198929	2.23	ppm	97
79)	Carbazole	9.60	167	184916	2.20	ppm	97
80)	Di-n-butylphthalate	10.32	149	219322	2.06	ppm	98
81)	Fluoranthene	11.42	202	190900	2.14	ppm	98
82)	Octadecane	9.10	57	77261	2.09	ppm	95
84)	Pyrene	11.87	202	201138	2.02	ppm	98
86)	Butylbenzylphthalate	13.48	149	92745	1.86	ppm	96
87)	Butyl stearate	13.76	56	47830	1.74	ppm	94
88)	Benzo[a]anthracene	14.52	228	177735	2.12	ppm	96
89)	3,3'-Dichlorobenzidine	14.55	252	58243	1.92	ppm	99
90)	Chrysene	14.59	228	172615	2.05	ppm	98
91)	bis(2-Ethylhexyl)phthalate	14.89	149	128666	1.86	ppm	95
93)	Di-n-octylphthalate	16.34	149	220603	1.92	ppm	99
94)	Benzo[b]fluoranthene	16.82	252	162360	2.06	ppm	95
95)	Benzo[k]fluoranthene	16.88	252	162400	2.11	ppm	98
96)	Benzo[a]pyrene	17.46	252	149619	2.07	ppm	99
97)	Indeno[1,2,3-cd]pyrene	19.52	276	137334	2.04	ppm	96
98)	Dibenz(a,h)acridine	19.16	279	114274	1.96	ppm	98
99)	Dibenz[a,h]anthracene	19.58	278	132465	2.01	ppm	100
100)	7,12-Dimethylbenz(a)anthra	16.84	256	59468	1.84	ppm	91
101)	Benzo[g,h,i]perylene	19.94	276	148274	2.05	ppm	94

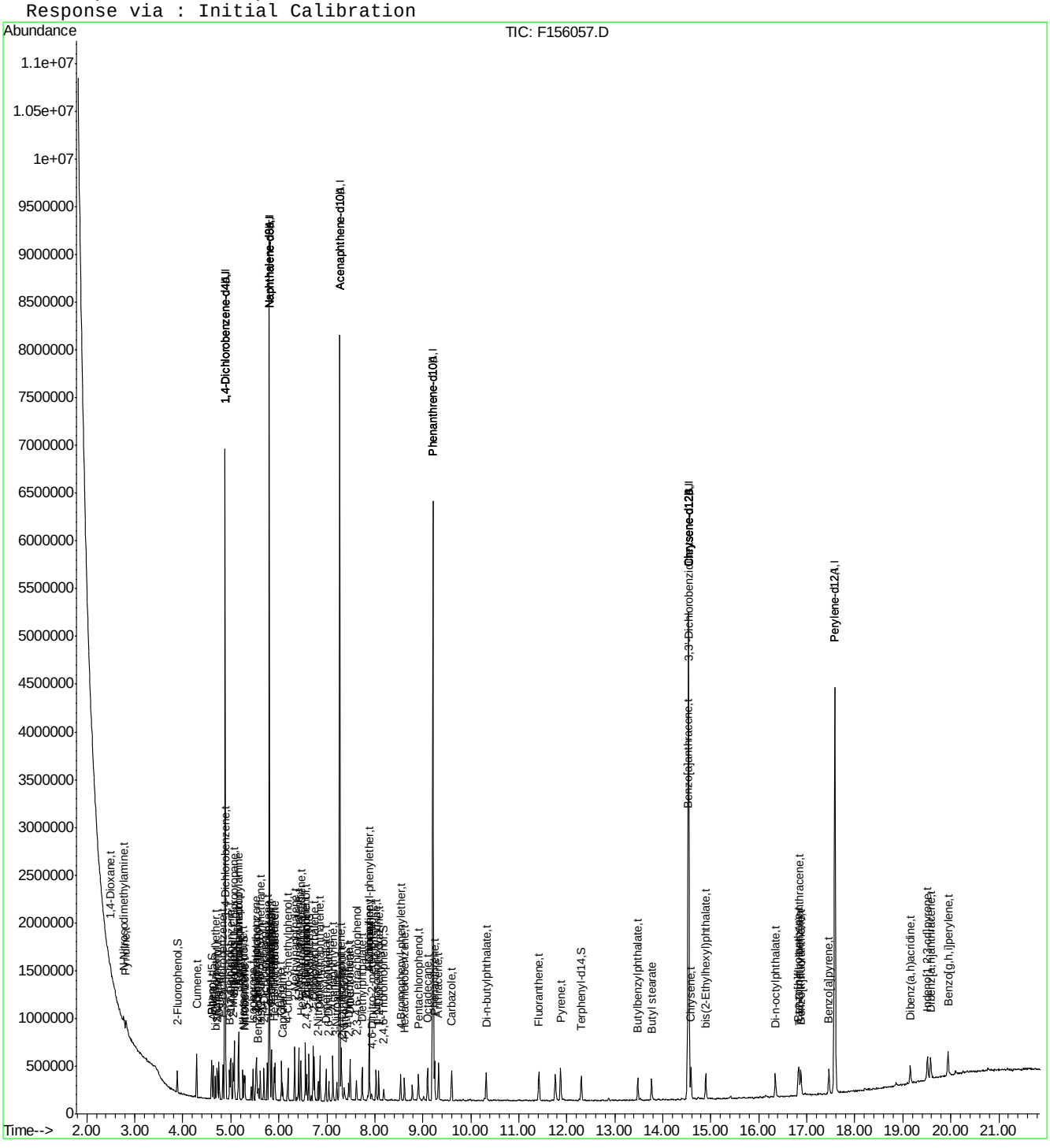
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156057.D Vial: 8
Acq On : 4 Apr 2016 10:04 pm Operator: sarad
Sample : ic6563-2 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 5 9:23 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:16:50 2016
Response via : Initial Calibration



Manual Integration Approval Summary

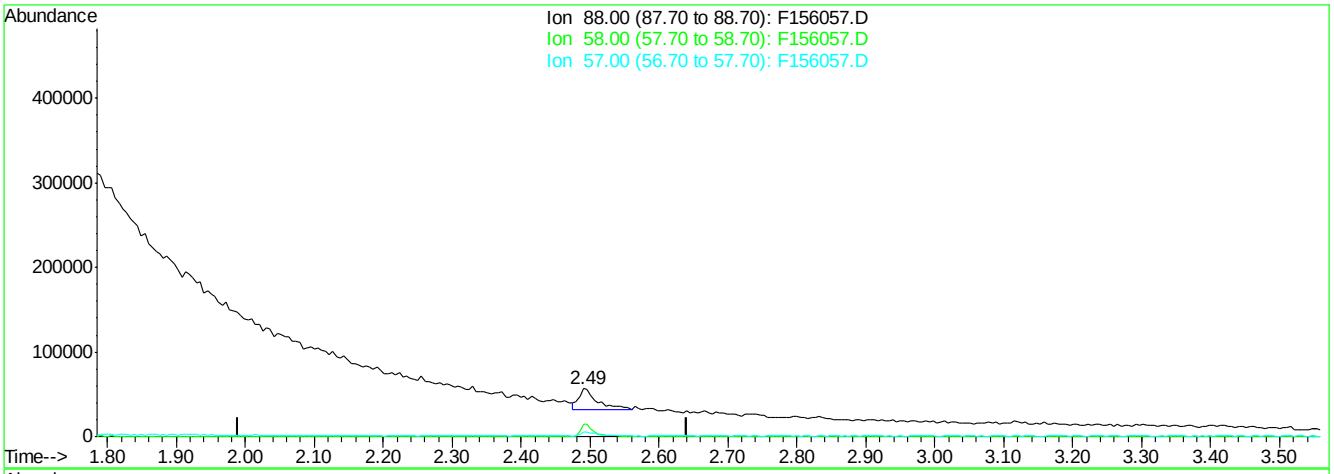
Sample Number:	EF6563-IC6563	**Method:**	SW846 8270D
Lab FileID:	F156057.D	**Analyst approved:**	04/06/16 08:21 Linsey Kirschmann
Injection Time:	04/04/16 22:04	**Supervisor approved:**	04/06/16 15:11 Kristi Schollenberger

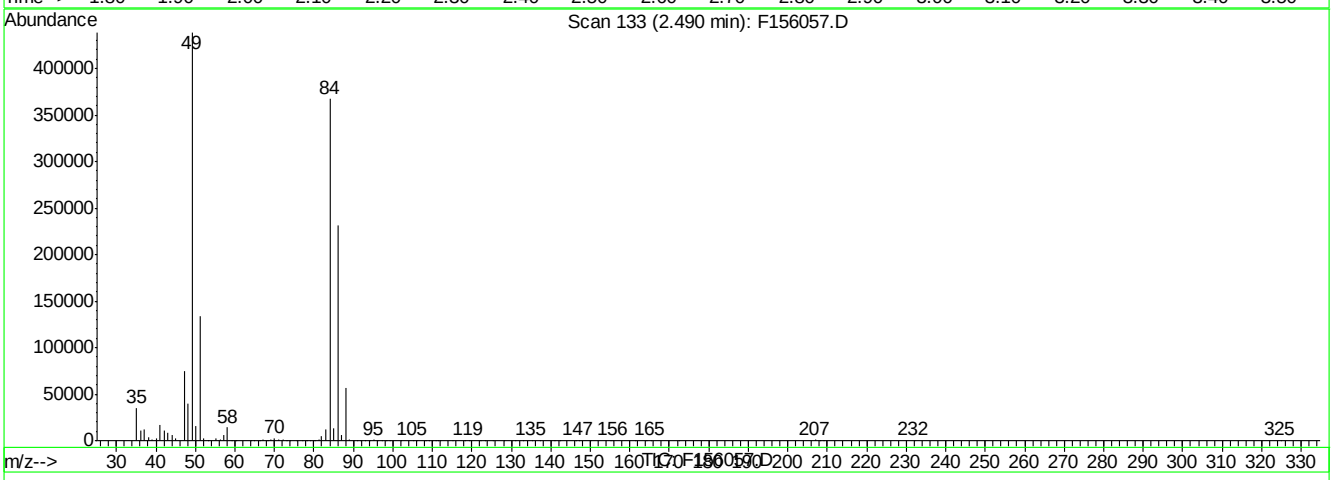
Parameter	CAS	Sig#	R.T. (min.)	Reason
1,4-Dioxane	123-91-1		2.49	Poor instrument integration

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156057.D Vial: 8
Acq On : 4 Apr 2016 10:04 pm Operator: sarad
Sample : ic6563-2 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 5 9:14 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:06:16 2016
Response via : Multiple Level Calibration





(2) 1,4-Dioxane (t)

2.49min 3.04ppm

response 43525

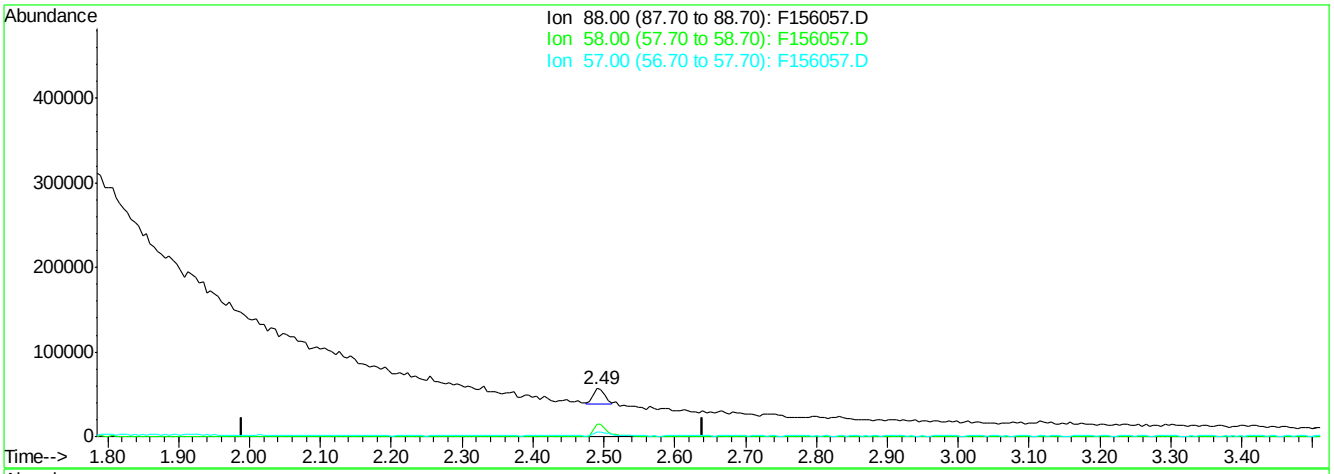
Ion	Exp%	Act%
88.00	100	100
58.00	66.20	68.89
57.00	21.10	24.74
0.00	0.00	0.00

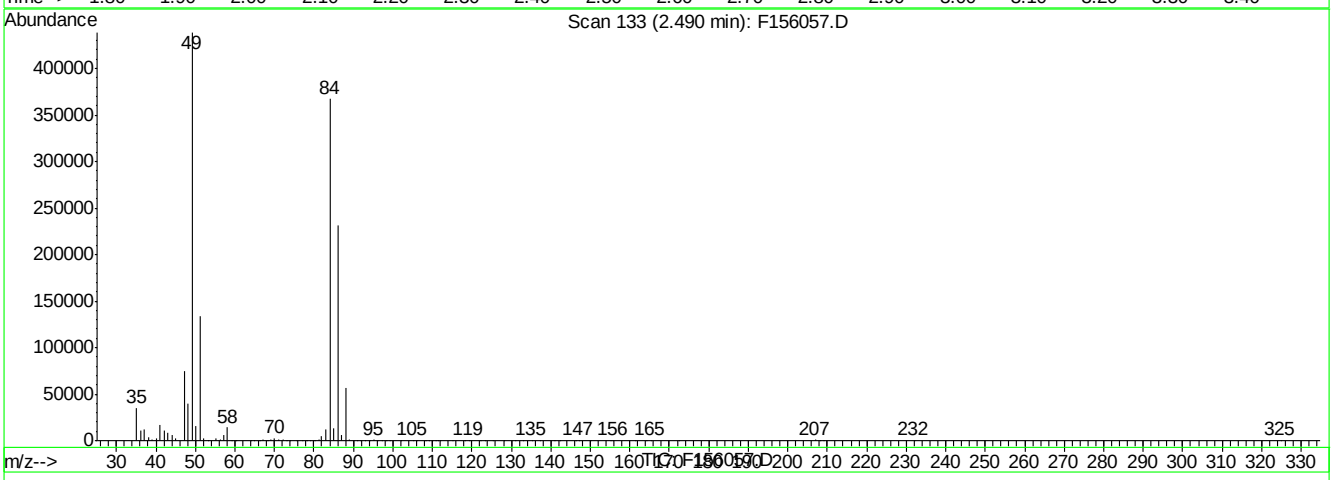
F156057.D MF6563.M Tue Apr 05 09:15:23 2016 RT1

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156057.D Vial: 8
Acq On : 4 Apr 2016 10:04 pm Operator: sarad
Sample : ic6563-2 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 5 9:15 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:06:16 2016
Response via : Multiple Level Calibration





(2) 1,4-Dioxane (t)

2.49min 1.39ppm m

response 19952

Ion	Exp%	Act%
88.00	100	100
58.00	66.20	25.38#
57.00	21.10	10.38
0.00	0.00	0.00

F156057.D MF6563.M Tue Apr 05 09:15:29 2016 RT1

Manual Integrations APPROVED (compounds with "m" flag)
Kristi Schollenberger 04/06/16 15:11

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156058.D Vial: 9
Acq On : 4 Apr 2016 10:33 pm Operator: sarad
Sample : ic6563-1 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 08:14:17 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:13:49 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	925326	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	3443301	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	2022694	40.00	ppm	0.00
69) Phenanthrene-d10	9.21	188	3240274	40.00	ppm	0.00
83) Chrysene-d12	14.53	240	2829220	40.00	ppm	-0.02
92) Perylene-d12	17.59	264	2605308	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.88	152	925326	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	3443301	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	2022694	40.00	ppm	0.00
132) Phenanthrene-d10A	9.21	188	3240274	40.00	ppm	0.00
147) Chrysene-d12A	14.53	240	2829220	40.00	ppm	-0.02
155) Perylene-d12A	17.59	264	2605308	40.00	ppm	-0.11
159) 1,4-Dichlorobenzene-d4b	4.88	152	925326	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	3443301	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	2022694	40.00	ppm	0.00
165) Phenanthrene-d10b	9.21	188	3240274	40.00	ppm	0.00
167) Chrysene-d12b	14.53	240	2829220	40.00	ppm	-0.02
169) 1,4-Dichlorobenzene-d4c	4.88	152	925326	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	3443301	40.00	ppm	0.00
176) Chrysene-d12c	14.53	240	2829220	40.00	ppm	-0.02
178) Naphthalene-d8a	5.80	136	3443301	40.00	ppm	0.15
180) Chrysene-d12B	14.53	240	2829220	40.00	ppm	0.22

System Monitoring Compounds						
5) 2-Fluorophenol	3.88	112	33942	1.09	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.18%	
8) Phenol-d5	4.60	99	42142	1.13	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.26%	
25) Nitrobenzene-d5	5.28	82	32224	1.04	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.08%	
51) 2-Fluorobiphenyl	6.63	172	69971	1.24	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.48%	
73) 2,4,6-Tribromophenol	8.19	330	6260	0.97	ppm	-0.01
Spiked Amount 50.000			Recovery	=	1.94%	
85) Terphenyl-d14	12.30	244	57004	1.01	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.02%	

Target Compounds						Qvalue
2) 1,4-Dioxane	2.50	88	18018m	1.34	ppm	
3) Pyridine	2.82	79	31114	0.92	ppm	89
4) N-Nitrosodimethylamine	2.77	42	13265	1.02	ppm	99
6) Indene	5.07	116	61038	1.29	ppm	98
7) Cumene	4.29	105	79272	1.19	ppm	99
9) Phenol	4.60	94	45104	1.13	ppm	96
10) Aniline	4.63	93	52526	1.33	ppm	95
11) bis(2-Chloroethyl)ether	4.68	93	32260	1.14	ppm	98
12) 2-Chlorophenol	4.72	128	37291	1.18	ppm	95
13) Decane	4.76	43	34278	1.32	ppm	98
14) 1,3-Dichlorobenzene	4.84	146	41335	1.19	ppm	98
15) 1,4-Dichlorobenzene	4.89	146	40166	1.16	ppm	95

(#) = qualifier out of range (m) = manual integration
F156058.D MF6563.M Tue Apr 05 09:25:39 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156058.D Vial: 9
Acq On : 4 Apr 2016 10:33 pm Operator: sarad
Sample : ic6563-1 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 08:14:17 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:13:49 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
16) Benzyl alcohol	4.97	108	23422	1.14	ppm		90
17) 1,2-Dichlorobenzene	5.00	146	39477	1.24	ppm		94
18) Acetophenone	5.17	105	45494	1.28	ppm		93
19) 2-Methylphenol	5.05	108	31635	1.16	ppm		95
20) 2,2'-oxybis(1-Chloropropan	5.08	121	12901	1.33	ppm	#	72
21) 3&4-Methylphenol	5.16	108	33244	1.24	ppm		96
22) n-Nitroso-di-n-propylamine	5.16	70	24292	1.22	ppm		96
23) Hexachloroethane	5.25	201	12952	1.20	ppm		91
26) Nitrobenzene	5.29	77	33402	1.04	ppm		98
27) Quinoline	6.05	129	69003	1.11	ppm		99
28) Isophorone	5.46	82	60703	1.14	ppm		98
29) 2-Nitrophenol	5.52	139	18094	1.11	ppm		86
30) 2,4-Dimethylphenol	5.55	107	26515	0.96	ppm		99
31) Benzoic acid	5.56	105	18143	0.75	ppm		84
32) bis(2-Chloroethoxy)methane	5.62	93	38876	1.18	ppm		97
33) 2,4-Dichlorophenol	5.69	162	28566	1.12	ppm		97
34) 2,6-Dichlorophenol	5.86	162	29724	1.29	ppm		97
35) 1,3,5-Trichlorobenzene	5.53	180	32487	1.31	ppm		98
36) 1,2,4-Trichlorobenzene	5.76	180	30670	1.20	ppm		97
37) 1,2,3-Trichlorobenzene	5.92	180	31037	1.24	ppm		96
38) Naphthalene	5.82	128	106291	1.35	ppm		90
39) 4-Chloroaniline	5.85	127	43078	1.30	ppm		98
40) 2,3-Dichloroaniline	6.56	161	37045	1.40	ppm		95
41) Caprolactam	6.07	55	13615	1.07	ppm		93
42) Hexachlorobutadiene	5.90	225	14417	1.22	ppm		96
43) 4-Chloro-3-methylphenol	6.19	107	27002	1.06	ppm		95
44) 2-Methylnaphthalene	6.33	141	56195	1.20	ppm		96
45) 1-Methylnaphthalene	6.41	141	58487	1.21	ppm		97
46) Dimethylnaphthalene	6.85	156	58934	1.20	ppm		93
48) Hexachlorocyclopentadiene	6.46	237	26262	2.09	ppm		99
49) 2,4,6-Trichlorophenol	6.56	196	19329	1.34	ppm		98
50) 2,4,5-Trichlorophenol	6.58	196	19243	1.10	ppm		95
52) 2-Chloronaphthalene	6.74	162	63561	1.23	ppm		98
53) Biphenyl	6.72	154	82740	1.27	ppm		97
54) 2-Nitroaniline	6.82	65	14621	0.89	ppm	#	80
55) Dimethylphthalate	6.98	163	69268	1.17	ppm		97
56) Acenaphthylene	7.13	152	102899	1.24	ppm		99
57) 2,6-Dinitrotoluene	7.04	165	13845	0.99	ppm		91
58) 3-Nitroaniline	7.21	138	15918	0.92	ppm		90
59) Acenaphthene	7.30	153	65211	1.26	ppm		96
60) 2,4-Dinitrophenol	7.32	184	5693	0.69	ppm	#	25
61) 4-Nitrophenol	7.36	109	7647	0.88	ppm		94
62) Dibenzofuran	7.49	168	88112	1.23	ppm		97
63) 2,4-Dinitrotoluene	7.45	165	16291	0.85	ppm		87
64) 2,3,4,6-Tetrachlorophenol	7.62	232	13911	1.03	ppm		91
65) Diethylphthalate	7.74	149	69487	1.17	ppm		97
66) Fluorene	7.89	166	70042	1.35	ppm		96
67) 4-Chlorophenyl-phenylether	7.89	204	31787	1.42	ppm		84
68) 4-Nitroaniline	7.89	138	16764	0.97	ppm		90

(#) = qualifier out of range (m) = manual integration

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156058.D Vial: 9
Acq On : 4 Apr 2016 10:33 pm Operator: sarad
Sample : ic6563-1 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 08:14:17 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:13:49 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
70)	4,6-Dinitro-2-methylphenol	7.93	198	4799	0.43	ppm	92
71)	n-Nitrosodiphenylamine	8.02	169	49361	1.17	ppm	91
72)	1,2-Diphenylhydrazine	8.08	77	64939	1.08	ppm	97
74)	4-Bromophenyl-phenylether	8.54	248	16182	1.15	ppm	97
75)	Hexachlorobenzene	8.62	284	15706	1.17	ppm	96
76)	Pentachlorophenol	8.91	266	17082	1.83	ppm	94
77)	Phenanthrene	9.25	178	102369	1.25	ppm	98
78)	Anthracene	9.33	178	99583	1.19	ppm	98
79)	Carbazole	9.60	167	91266	1.15	ppm	97
80)	Di-n-butylphthalate	10.32	149	111956	1.11	ppm	97
81)	Fluoranthene	11.42	202	96469	1.13	ppm	98
82)	Octadecane	9.10	57	38528	1.10	ppm	95
84)	Pyrene	11.87	202	100822	1.03	ppm	94
86)	Butylbenzylphthalate	13.48	149	47051	0.93	ppm	93
87)	Butyl stearate	13.77	56	23594	0.84	ppm	93
88)	Benzo[a]anthracene	14.52	228	90088	1.08	ppm	96
89)	3,3'-Dichlorobenzidine	14.54	252	26697	0.88	ppm	83
90)	Chrysene	14.59	228	86595	1.04	ppm	93
91)	bis(2-Ethylhexyl)phthalate	14.89	149	63397	0.89	ppm	99
93)	Di-n-octylphthalate	16.34	149	105581	0.93	ppm	99
94)	Benzo[b]fluoranthene	16.82	252	84697	1.11	ppm	95
95)	Benzo[k]fluoranthene	16.88	252	83033	1.10	ppm	97
96)	Benzo[a]pyrene	17.46	252	76555	1.09	ppm	97
97)	Indeno[1,2,3-cd]pyrene	19.52	276	68054	1.04	ppm	96
98)	Dibenz(a,h)acridine	19.16	279	57503	1.02	ppm	99
99)	Dibenz[a,h]anthracene	19.57	278	61000	0.94	ppm	99
100)	7,12-Dimethylbenz(a)anthra	16.84	256	26148	0.81	ppm	98
101)	Benzo[g,h,i]perylene	19.94	276	76109	1.10	ppm	97

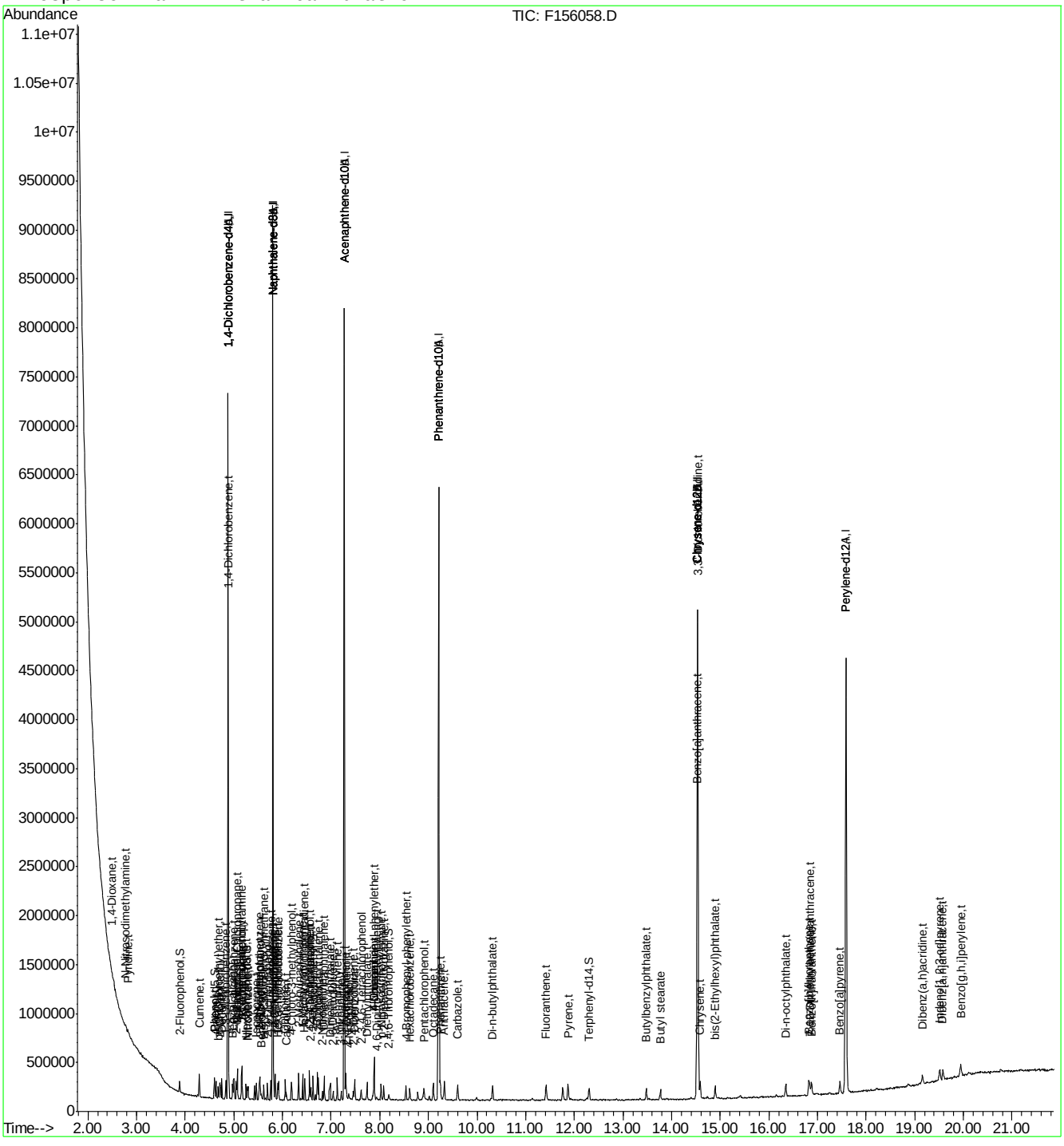
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156058.D Vial: 9
Acq On : 4 Apr 2016 10:33 pm Operator: sarad
Sample : ic6563-1 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 5 9:25 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:24:11 2016
Response via : Initial Calibration



Manual Integration Approval Summary

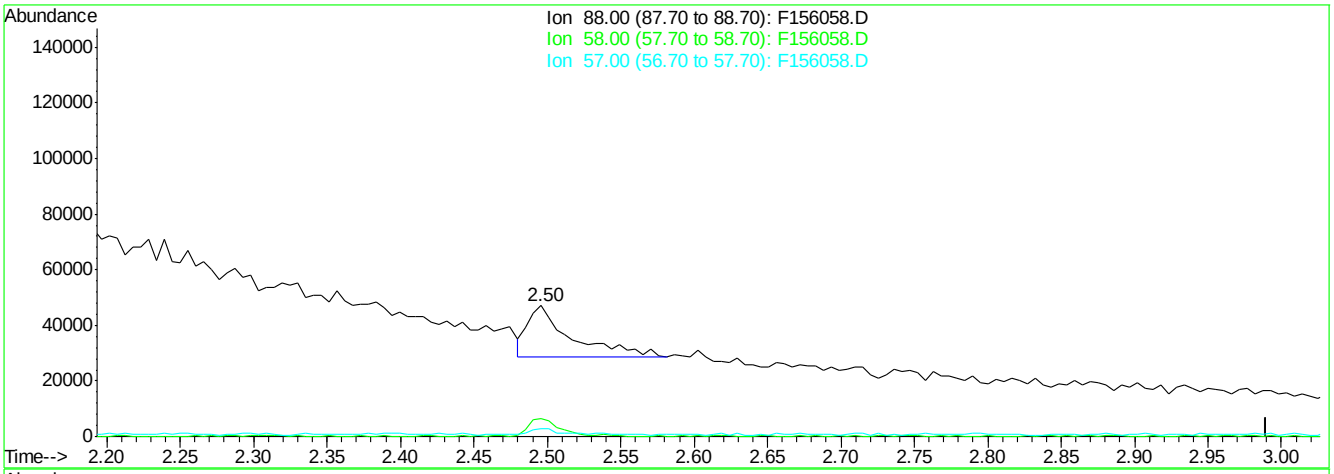
Sample Number:	EF6563-IC6563	**Method:**	SW846 8270D
Lab FileID:	F156058.D	**Analyst approved:**	04/06/16 08:21 Linsey Kirschmann
Injection Time:	04/04/16 22:33	**Supervisor approved:**	04/06/16 15:11 Kristi Schollenberger

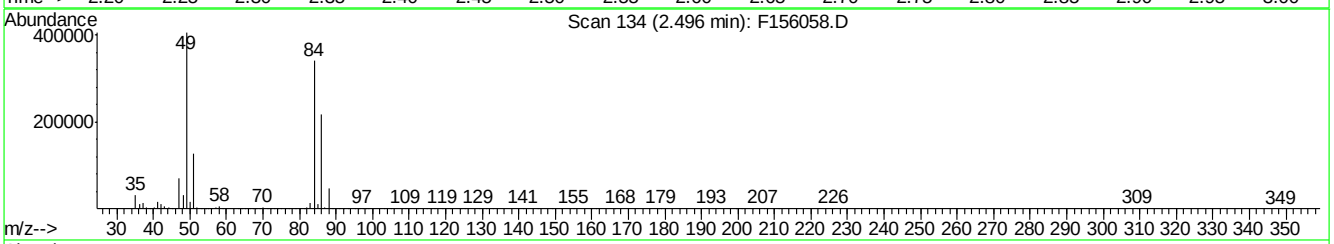
Parameter	CAS	Sig#	R.T. (min.)	Reason
1,4-Dioxane	123-91-1		2.50	Poor instrument integration

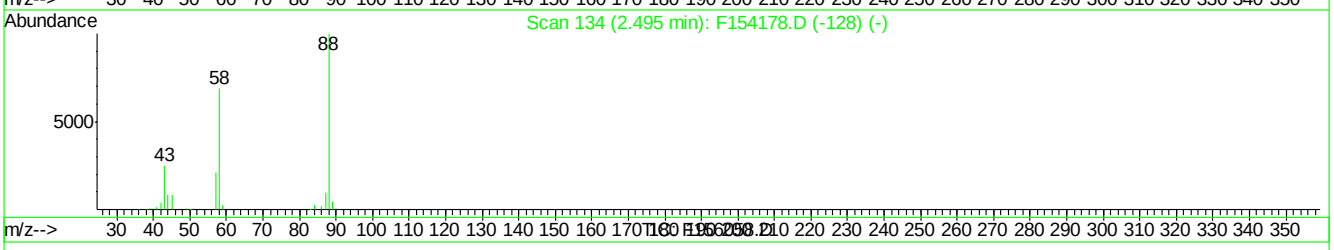
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156058.D Vial: 9
Acq On : 4 Apr 2016 10:33 pm Operator: sarad
Sample : ic6563-1 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 5 8:14 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:24:11 2016
Response via : Multiple Level Calibration







(2) 1,4-Dioxane (t)

2.50min 2.82ppm

response 37950

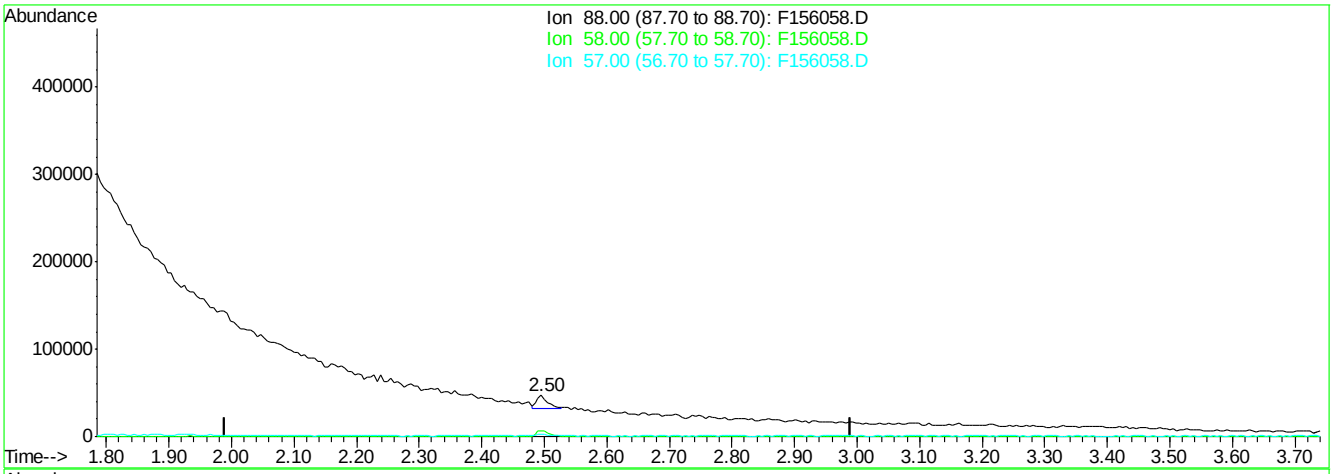
Ion	Exp%	Act%
88.00	100	100
58.00	61.80	40.90
57.00	19.90	13.02
0.00	0.00	0.00

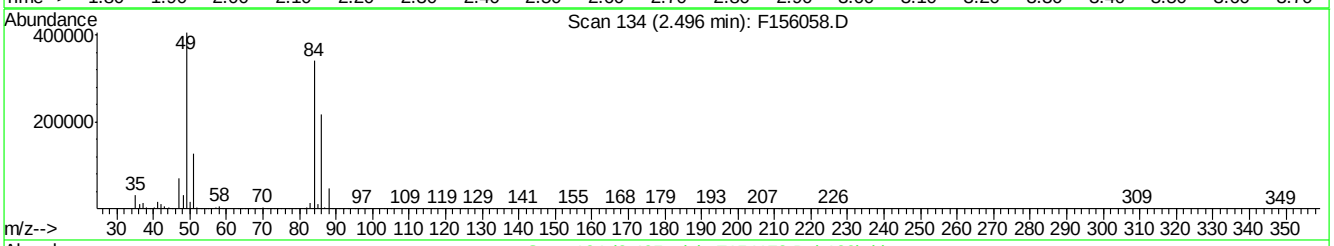
F156058.D MF6563.M Tue Apr 05 09:24:19 2016 RT1

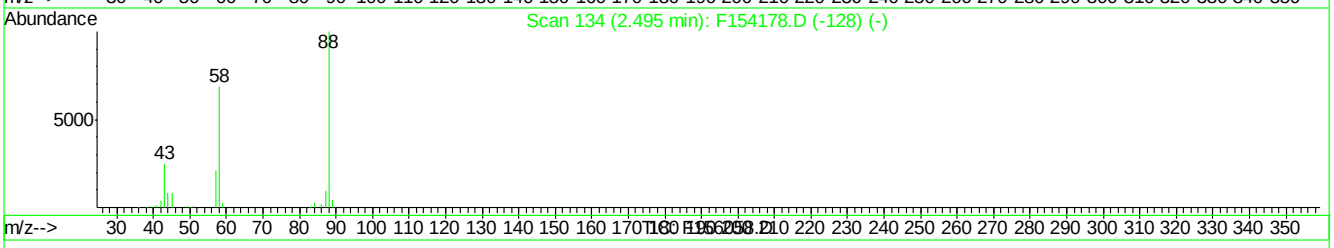
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156058.D Vial: 9
Acq On : 4 Apr 2016 10:33 pm Operator: sarad
Sample : ic6563-1 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 5 9:24 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:24:11 2016
Response via : Multiple Level Calibration







(2) 1,4-Dioxane (t)

2.50min 1.34ppm m

response 18018

Ion	Exp%	Act%
88.00	100	100
58.00	61.80	13.73#
57.00	19.90	5.91
0.00	0.00	0.00

F156058.D MF6563.M Tue Apr 05 09:24:27 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156060.D Vial: 2
Acq On : 4 Apr 2016 11:27 pm Operator: sarad
Sample : ic6564-100 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 09:55:29 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:55:18 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	876019	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	3330661	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	1696591	40.00	ppm	0.00
69) Phenanthrene-d10	9.21	188	2963286	40.00	ppm	0.00
83) Chrysene-d12	14.53	240	2499519	40.00	ppm	-0.02
92) Perylene-d12	17.59	264	2399017	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.88	152	876019	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	3330661	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	1696591	40.00	ppm	0.00
132) Phenanthrene-d10A	9.21	188	2963286	40.00	ppm	0.00
147) Chrysene-d12A	14.53	240	2499519	40.00	ppm	-0.02
155) Perylene-d12A	17.59	264	2399017	40.00	ppm	0.00
159) 1,4-Dichlorobenzene-d4b	4.88	152	876019	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	3330661	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	1696591	40.00	ppm	0.00
165) Phenanthrene-d10b	9.21	188	2963286	40.00	ppm	0.00
167) Chrysene-d12b	14.53	240	2499519	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.88	152	876019	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	3330661	40.00	ppm	0.00
176) Chrysene-d12c	14.53	240	2499519	40.00	ppm	-0.02
178) Naphthalene-d8a	5.80	136	3330661	40.00	ppm	0.15
180) Chrysene-d12B	14.53	240	2499519	40.00	ppm	0.22

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.00	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.00	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.00	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.00	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

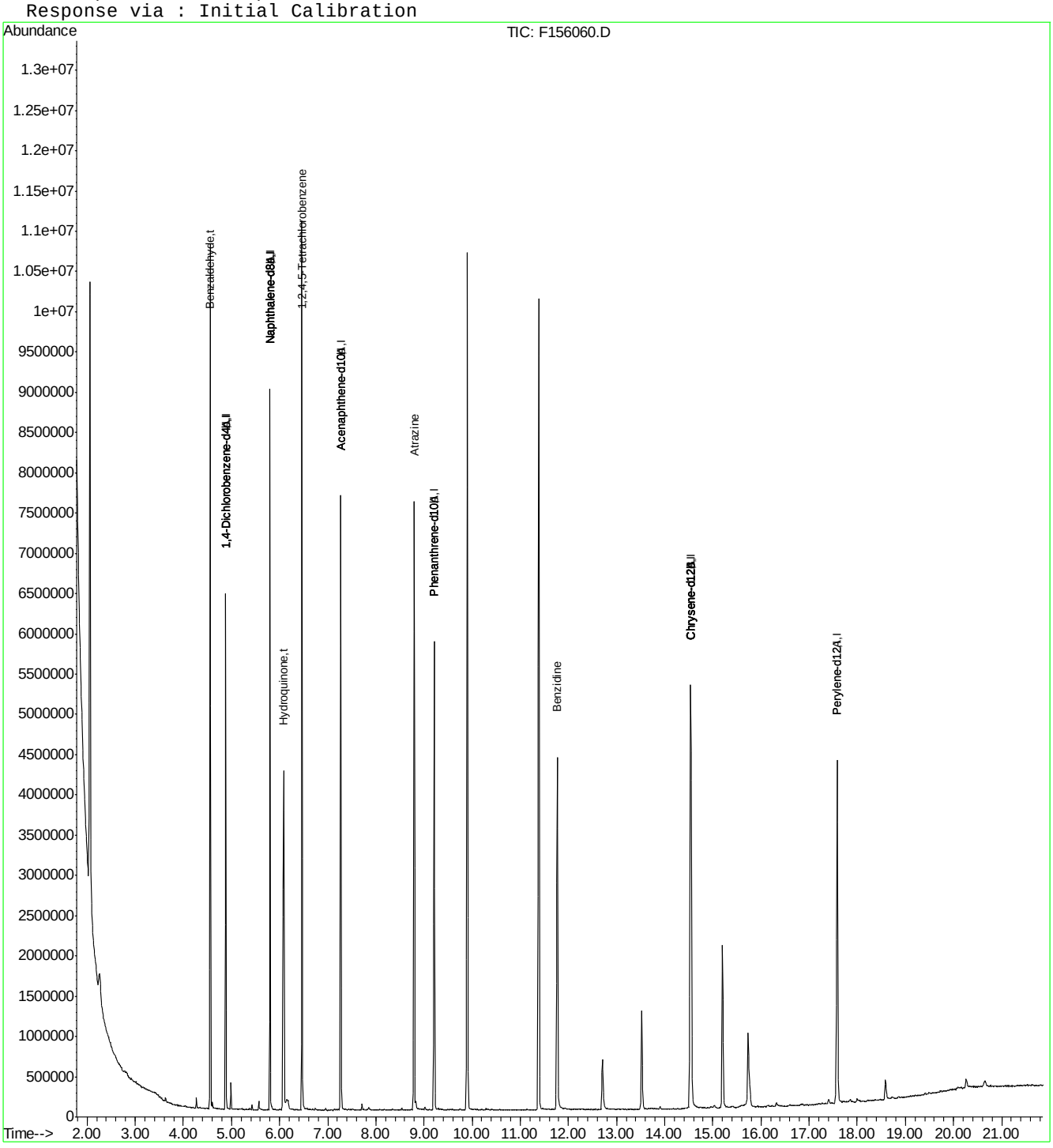
Target Compounds						Qvalue
160) Benzaldehyde	4.56	105	1788383	100.00	ppm	94
162) Hydroquinone	6.09	110	2676489	100.00	ppm	97
164) 1,2,4,5-Tetrachlorobenzene	6.47	216	1866229	100.00	ppm	99
166) Atrazine	8.80	200	1246711	100.00	ppm	98
168) Benzidine	11.77	184	2751436	100.00	ppm	99

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156060.D Vial: 2
Acq On : 4 Apr 2016 11:27 pm Operator: sarad
Sample : ic6564-100 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 5 10:07 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:55:18 2016
Response via : Initial Calibration



F156060.D MF6563.M Tue Apr 05 10:07:07 2016 RT1 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156061.D Vial: 3
Acq On : 4 Apr 2016 11:56 pm Operator: sarad
Sample : ic6564-80 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 09:55:57 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:55:18 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	778045	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	2974600	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	1548244	40.00	ppm	0.00
69) Phenanthrene-d10	9.21	188	2777345	40.00	ppm	0.00
83) Chrysene-d12	14.53	240	2529147	40.00	ppm	-0.02
92) Perylene-d12	17.58	264	2444530	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4A	4.88	152	778045	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	2974600	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	1548244	40.00	ppm	0.00
132) Phenanthrene-d10A	9.21	188	2777345	40.00	ppm	0.00
147) Chrysene-d12A	14.53	240	2529147	40.00	ppm	-0.02
155) Perylene-d12A	17.58	264	2444530	40.00	ppm	-0.01
159) 1,4-Dichlorobenzene-d4b	4.88	152	778045	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	2974600	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	1548244	40.00	ppm	0.00
165) Phenanthrene-d10b	9.21	188	2777345	40.00	ppm	0.00
167) Chrysene-d12b	14.53	240	2529147	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.88	152	778045	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	2974600	40.00	ppm	0.00
176) Chrysene-d12c	14.53	240	2529147	40.00	ppm	-0.02
178) Naphthalene-d8a	5.80	136	2974600	40.00	ppm	0.15
180) Chrysene-d12B	14.53	240	2529147	40.00	ppm	0.22

System Monitoring Compounds						
5) 2-Fluorophenol	0.00	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.00	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.00	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.00	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.00	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

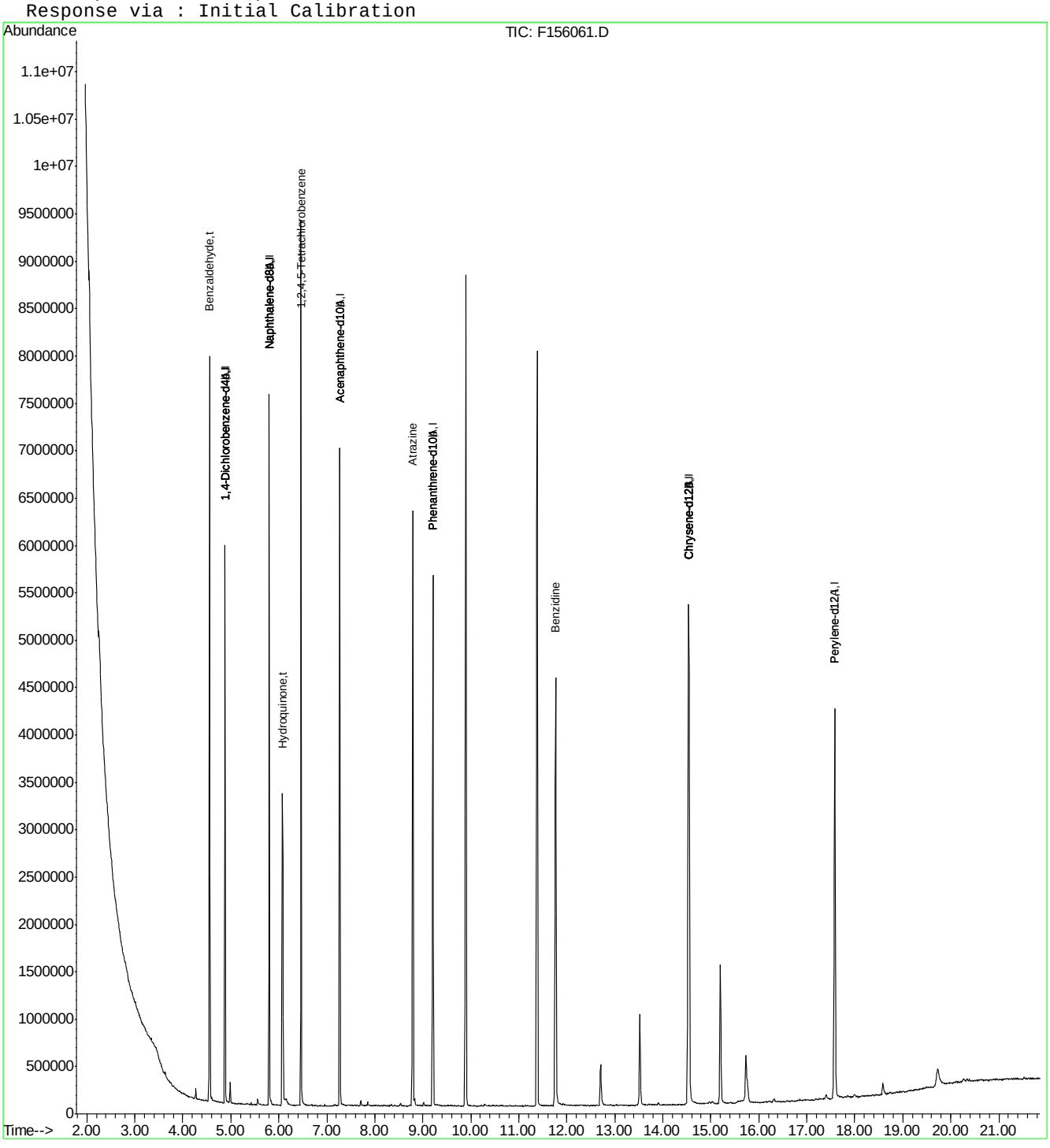
Target Compounds						Qvalue
160) Benzaldehyde	4.56	105	1480808	93.23	ppm	94
162) Hydroquinone	6.08	110	2074959	86.81	ppm	98
164) 1,2,4,5-Tetrachlorobenzene	6.46	216	1443307	84.75	ppm	99
166) Atrazine	8.79	200	988551	84.60	ppm	98
168) Benzidine	11.77	184	2902612	104.26	ppm	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed
F156061.D MF6563.M Tue Apr 05 10:07:56 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156061.D Vial: 3
Acq On : 4 Apr 2016 11:56 pm Operator: sarad
Sample : ic6564-80 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 5 10:07 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:55:18 2016
Response via : Initial Calibration



F156061.D MF6563.M Tue Apr 05 10:07:56 2016 RT1 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156062.D Vial: 4
Acq On : 5 Apr 2016 12:25 am Operator: sarad
Sample : icc6564-50 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 09:55:59 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:55:18 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	789682	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	3030346	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	1607375	40.00	ppm	0.00
69) Phenanthrene-d10	9.21	188	2850459	40.00	ppm	0.00
83) Chrysene-d12	14.53	240	2641342	40.00	ppm	-0.02
92) Perylene-d12	17.58	264	2578423	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4A	4.88	152	789682	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	3030346	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	1607375	40.00	ppm	0.00
132) Phenanthrene-d10A	9.21	188	2850459	40.00	ppm	0.00
147) Chrysene-d12A	14.53	240	2641342	40.00	ppm	-0.02
155) Perylene-d12A	17.58	264	2578423	40.00	ppm	-0.01
159) 1,4-Dichlorobenzene-d4b	4.88	152	789682	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	3030346	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	1607375	40.00	ppm	0.00
165) Phenanthrene-d10b	9.21	188	2850459	40.00	ppm	0.00
167) Chrysene-d12b	14.53	240	2641342	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.88	152	789682	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	3030346	40.00	ppm	0.00
176) Chrysene-d12c	14.53	240	2641342	40.00	ppm	-0.02
178) Naphthalene-d8a	5.80	136	3030346	40.00	ppm	0.15
180) Chrysene-d12B	14.53	240	2641342	40.00	ppm	0.22

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.00	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.00	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.00	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.00	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

Target Compounds						Qvalue
160) Benzaldehyde	4.56	105	1038509	64.42	ppm	95
162) Hydroquinone	6.07	110	1423940	58.47	ppm	98
164) 1,2,4,5-Tetrachlorobenzene	6.46	216	995643	56.31	ppm	98
166) Atrazine	8.79	200	662708	55.26	ppm	97
168) Benzidine	11.76	184	2444021	84.06	ppm	98

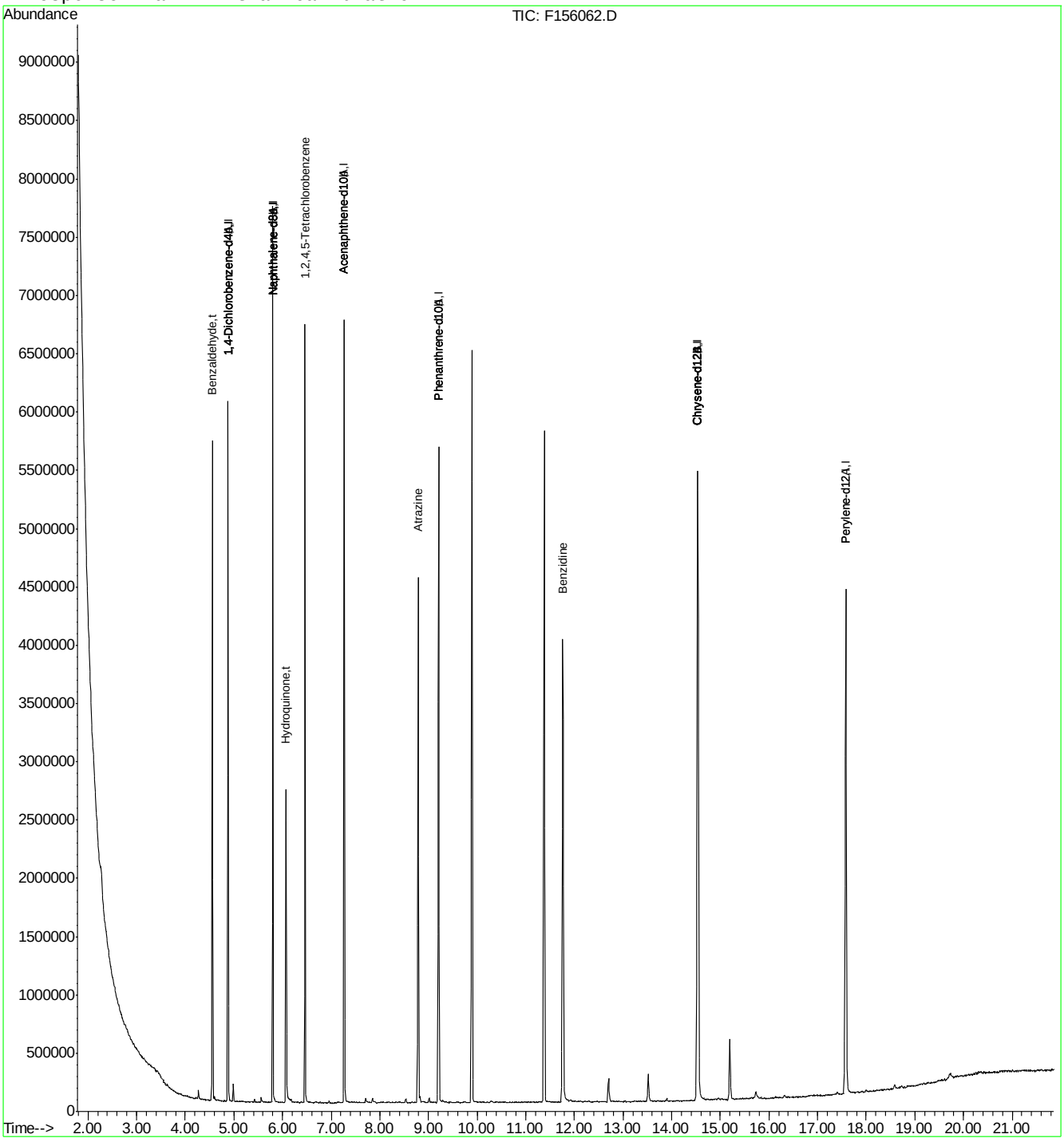
(#) = qualifier out of range (m) = manual integration (+) = signals summed
F156062.D MF6563.M Tue Apr 05 10:08:48 2016 RT1

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156062.D Vial: 4
Acq On : 5 Apr 2016 12:25 am Operator: sarad
Sample : icc6564-50 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 5 10:08 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:55:18 2016
Response via : Initial Calibration



SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156063.D Vial: 5
Acq On : 5 Apr 2016 12:53 am Operator: sarad
Sample : ic6564-25 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 09:56:01 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:55:18 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	897327	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	3495590	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	1830512	40.00	ppm	0.00
69) Phenanthrene-d10	9.21	188	3215186	40.00	ppm	0.00
83) Chrysene-d12	14.53	240	2889252	40.00	ppm	-0.02
92) Perylene-d12	17.58	264	2749195	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4A	4.88	152	897327	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	3495590	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	1830512	40.00	ppm	0.00
132) Phenanthrene-d10A	9.21	188	3215186	40.00	ppm	0.00
147) Chrysene-d12A	14.53	240	2889252	40.00	ppm	-0.02
155) Perylene-d12A	17.58	264	2749195	40.00	ppm	-0.01
159) 1,4-Dichlorobenzene-d4b	4.88	152	897327	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	3495590	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	1830512	40.00	ppm	0.00
165) Phenanthrene-d10b	9.21	188	3215186	40.00	ppm	0.00
167) Chrysene-d12b	14.53	240	2889252	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.88	152	897327	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	3495590	40.00	ppm	0.00
176) Chrysene-d12c	14.53	240	2889252	40.00	ppm	-0.02
178) Naphthalene-d8a	5.80	136	3495590	40.00	ppm	0.15
180) Chrysene-d12B	14.53	240	2889252	40.00	ppm	0.22

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.00	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.00	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.00	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.00	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

Target Compounds						Qvalue
160) Benzaldehyde	4.55	105	625383	34.14	ppm	93
162) Hydroquinone	6.06	110	789896	28.12	ppm	98
164) 1,2,4,5-Tetrachlorobenzene	6.46	216	610612	30.33	ppm	98
166) Atrazine	8.79	200	385755	28.52	ppm	98
168) Benzidine	11.76	184	1398321	43.97	ppm	97

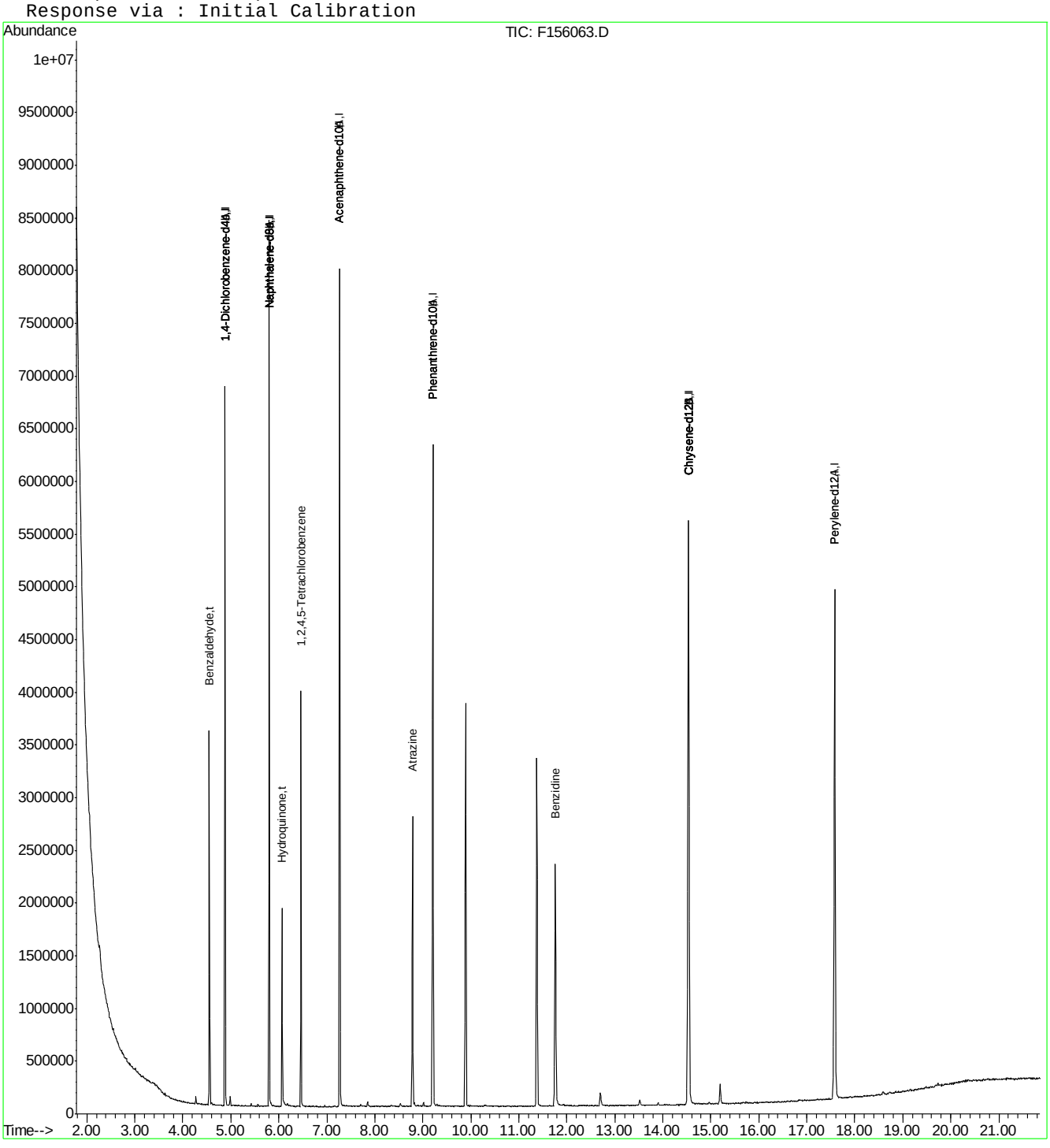
(#) = qualifier out of range (m) = manual integration (+) = signals summed
F156063.D MF6563.M Tue Apr 05 10:09:35 2016 RT1

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156063.D Vial: 5
Acq On : 5 Apr 2016 12:53 am Operator: sarad
Sample : ic6564-25 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 5 10:09 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:55:18 2016
Response via : Initial Calibration



F156063.D MF6563.M Tue Apr 05 10:09:35 2016 RT1 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156064.D Vial: 6
Acq On : 5 Apr 2016 1:22 am Operator: sarad
Sample : ic6564-10 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 09:56:03 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:55:18 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	885213	40.00 ppm	0.00
24) Naphthalene-d8	5.80	136	3420800	40.00 ppm	0.00
47) Acenaphthene-d10	7.27	164	1822219	40.00 ppm	0.00
69) Phenanthrene-d10	9.21	188	3282226	40.00 ppm	0.00
83) Chrysene-d12	14.53	240	3053939	40.00 ppm	-0.02
92) Perylene-d12	17.59	264	2907168	40.00 ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.88	152	885213	40.00 ppm	0.00
112) Naphthalene-d8A	5.80	136	3420800	40.00 ppm	0.00
121) Acenaphthene-d10A	7.27	164	1822219	40.00 ppm	0.00
132) Phenanthrene-d10A	9.21	188	3282226	40.00 ppm	0.00
147) Chrysene-d12A	14.53	240	3053939	40.00 ppm	-0.02
155) Perylene-d12A	17.59	264	2907168	40.00 ppm	0.00
159) 1,4-Dichlorobenzene-d4b	4.88	152	885213	40.00 ppm	0.00
161) Naphthalene-d8b	5.80	136	3420800	40.00 ppm	0.00
163) Acenaphthene-d10b	7.27	164	1822219	40.00 ppm	0.00
165) Phenanthrene-d10b	9.21	188	3282226	40.00 ppm	0.00
167) Chrysene-d12b	14.53	240	3053939	40.00 ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.88	152	885213	40.00 ppm	0.00
171) Naphthalene-d8c	5.80	136	3420800	40.00 ppm	0.00
176) Chrysene-d12c	14.53	240	3053939	40.00 ppm	-0.02
178) Naphthalene-d8a	5.80	136	3420800	40.00 ppm	0.15
180) Chrysene-d12B	14.53	240	3053939	40.00 ppm	0.22

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00 ppm	
Spiked Amount 50.000			Recovery = 0.00%		
8) Phenol-d5	0.00	99	0	0.00 ppm	
Spiked Amount 50.000			Recovery = 0.00%		
25) Nitrobenzene-d5	0.00	82	0	0.00 ppm	
Spiked Amount 50.000			Recovery = 0.00%		
51) 2-Fluorobiphenyl	0.00	172	0	0.00 ppm	
Spiked Amount 50.000			Recovery = 0.00%		
73) 2,4,6-Tribromophenol	0.00	330	0	0.00 ppm	
Spiked Amount 50.000			Recovery = 0.00%		
85) Terphenyl-d14	0.00	244	0d	0.00 ppm	
Spiked Amount 50.000			Recovery = 0.00%		

Target Compounds					Qvalue
160) Benzaldehyde	4.55	105	256018	14.17 ppm	94
162) Hydroquinone	6.06	110	302905	11.02 ppm	98
164) 1,2,4,5-Tetrachlorobenzene	6.46	216	258989	12.92 ppm	98
166) Atrazine	8.78	200	158420	11.47 ppm	97
168) Benzidine	11.76	184	592694	17.63 ppm	97

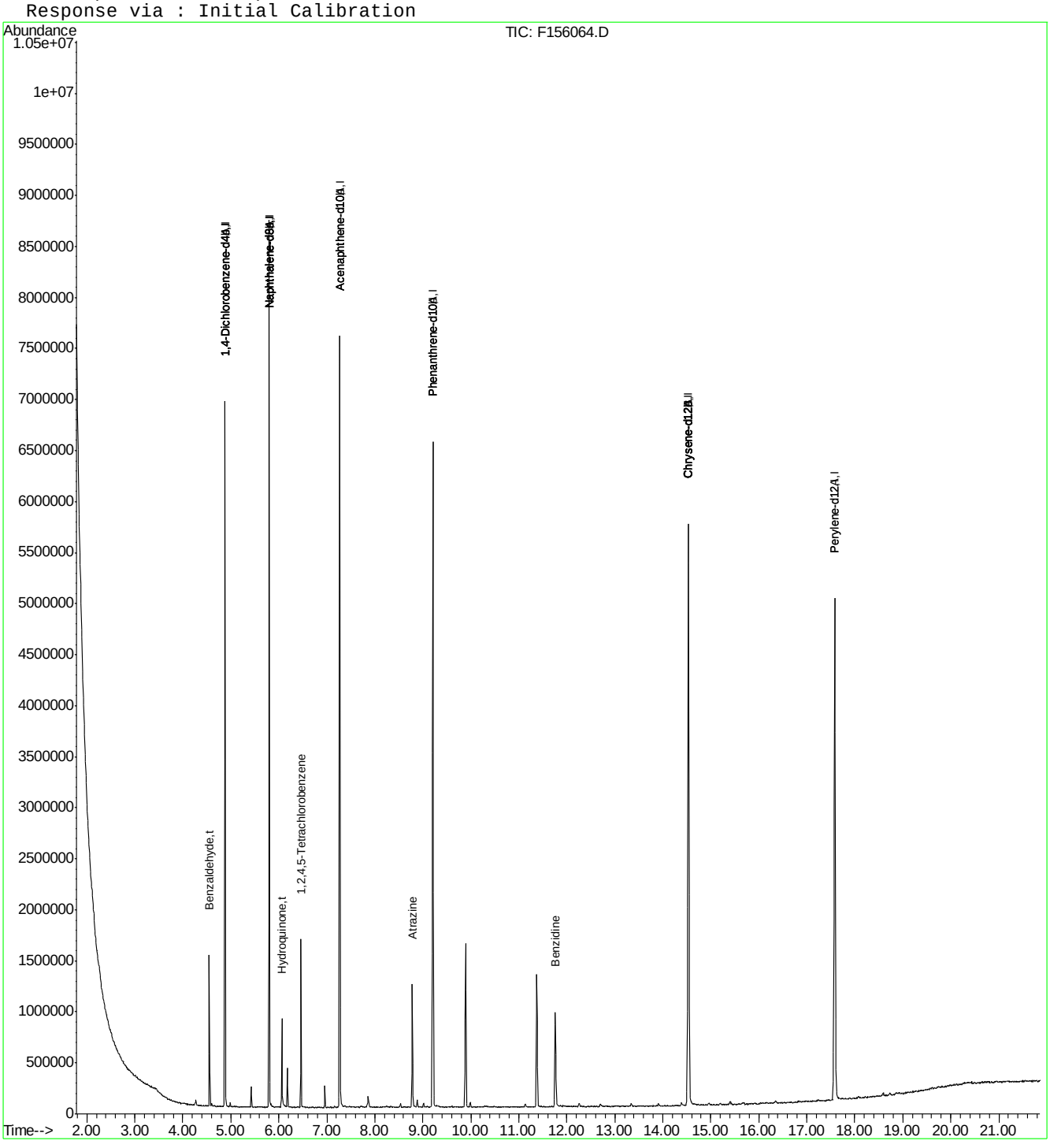
(#) = qualifier out of range (m) = manual integration (+) = signals summed
F156064.D MF6563.M Tue Apr 05 10:10:29 2016 RT1

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156064.D Vial: 6
Acq On : 5 Apr 2016 1:22 am Operator: sarad
Sample : ic6564-10 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 5 10:10 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:55:18 2016
Response via : Initial Calibration



F156064.D MF6563.M Tue Apr 05 10:10:29 2016 RT1 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156065.D Vial: 7
Acq On : 5 Apr 2016 1:51 am Operator: sarad
Sample : ic6564-5 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 09:56:05 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:55:18 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	935945	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	3563923	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	1902764	40.00	ppm	0.00
69) Phenanthrene-d10	9.21	188	3340344	40.00	ppm	0.00
83) Chrysene-d12	14.53	240	3114492	40.00	ppm	-0.02
92) Perylene-d12	17.59	264	2956755	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.88	152	935945	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	3563923	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	1902764	40.00	ppm	0.00
132) Phenanthrene-d10A	9.21	188	3340344	40.00	ppm	0.00
147) Chrysene-d12A	14.53	240	3114492	40.00	ppm	-0.02
155) Perylene-d12A	17.59	264	2956755	40.00	ppm	0.00
159) 1,4-Dichlorobenzene-d4b	4.88	152	935945	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	3563923	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	1902764	40.00	ppm	0.00
165) Phenanthrene-d10b	9.21	188	3340344	40.00	ppm	0.00
167) Chrysene-d12b	14.53	240	3114492	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.88	152	935945	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	3563923	40.00	ppm	0.00
176) Chrysene-d12c	14.53	240	3114492	40.00	ppm	-0.02
178) Naphthalene-d8a	5.80	136	3563923	40.00	ppm	0.15
180) Chrysene-d12B	14.53	240	3114492	40.00	ppm	0.22

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.00	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.00	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.00	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.00	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

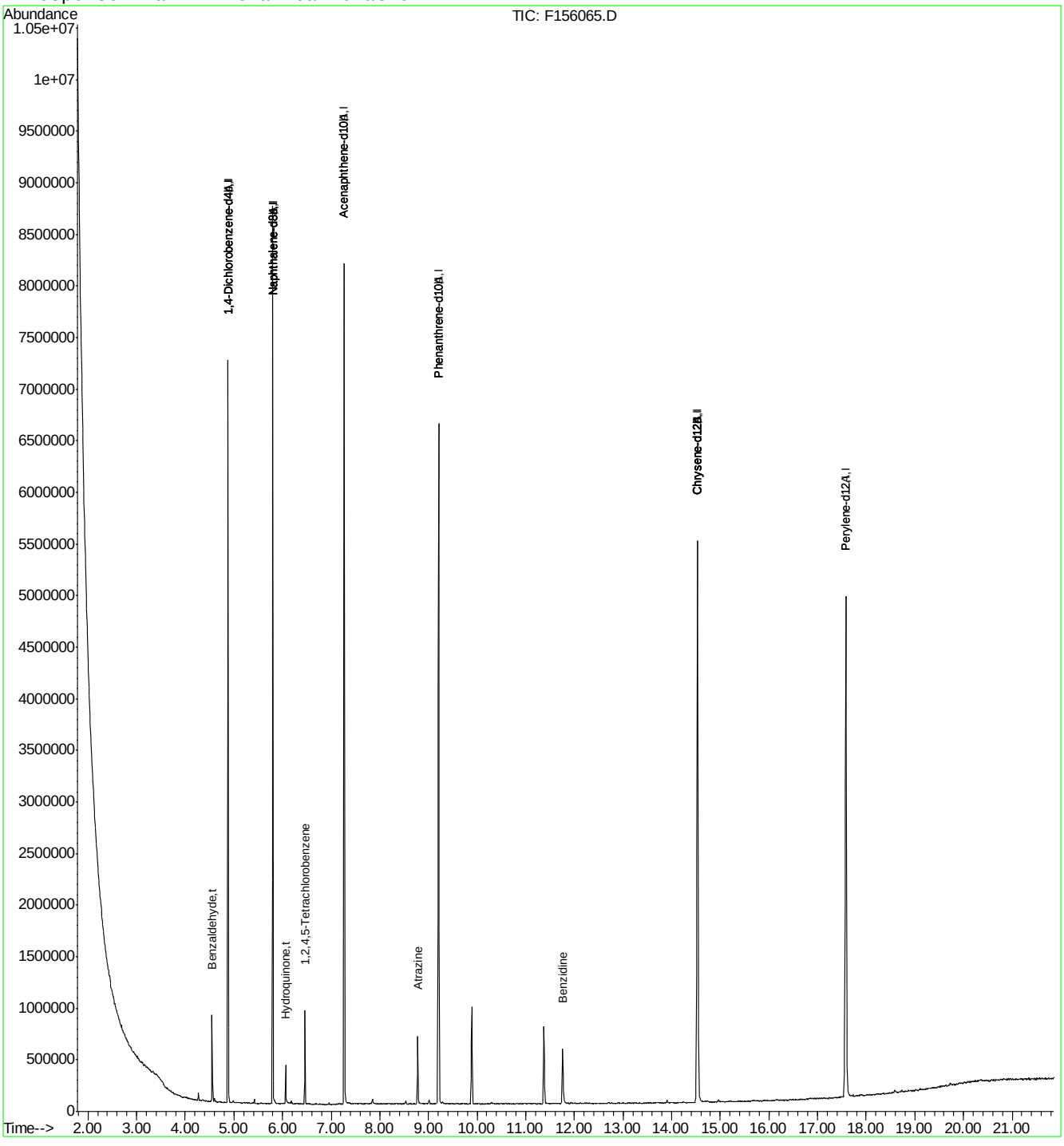
Target Compounds						Qvalue
160) Benzaldehyde	4.55	105	148058	7.75	ppm	91
162) Hydroquinone	6.06	110	146743	5.12	ppm	98
164) 1,2,4,5-Tetrachlorobenzene	6.46	216	152792	7.30	ppm	97
166) Atrazine	8.78	200	90736	6.46	ppm	95
168) Benzidine	11.76	184	331741	9.68	ppm	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
F156065.D MF6563.M Tue Apr 05 10:11:14 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156065.D Vial: 7
Acq On : 5 Apr 2016 1:51 am Operator: sarad
Sample : ic6564-5 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 5 10:11 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:55:18 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156066.D Vial: 8
Acq On : 5 Apr 2016 2:19 am Operator: sarad
Sample : ic6564-2 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 09:56:33 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:55:18 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	962586	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	3652889	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	1925626	40.00	ppm	0.00
69) Phenanthrene-d10	9.21	188	3455884	40.00	ppm	0.00
83) Chrysene-d12	14.53	240	3185957	40.00	ppm	-0.02
92) Perylene-d12	17.58	264	3042111	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4A	4.88	152	962586	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	3652889	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	1925626	40.00	ppm	0.00
132) Phenanthrene-d10A	9.21	188	3455884	40.00	ppm	0.00
147) Chrysene-d12A	14.53	240	3185957	40.00	ppm	-0.02
155) Perylene-d12A	17.58	264	3042111	40.00	ppm	-0.01
159) 1,4-Dichlorobenzene-d4b	4.88	152	962586	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	3652889	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	1925626	40.00	ppm	0.00
165) Phenanthrene-d10b	9.21	188	3455884	40.00	ppm	0.00
167) Chrysene-d12b	14.53	240	3185957	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.88	152	962586	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	3652889	40.00	ppm	0.00
176) Chrysene-d12c	14.53	240	3185957	40.00	ppm	-0.02
178) Naphthalene-d8a	5.80	136	3652889	40.00	ppm	0.15
180) Chrysene-d12B	14.53	240	3185957	40.00	ppm	0.22

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.00	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.00	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.00	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.00	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

Target Compounds						Qvalue
160) Benzaldehyde	4.55	105	63241	3.22	ppm	94
162) Hydroquinone	6.06	110	48989	1.67	ppm	95
164) 1,2,4,5-Tetrachlorobenzene	6.46	216	62433	2.95	ppm	99
166) Atrazine	8.78	200	35152	2.42	ppm	94
168) Benzidine	11.76	184	117911	3.36	ppm	94

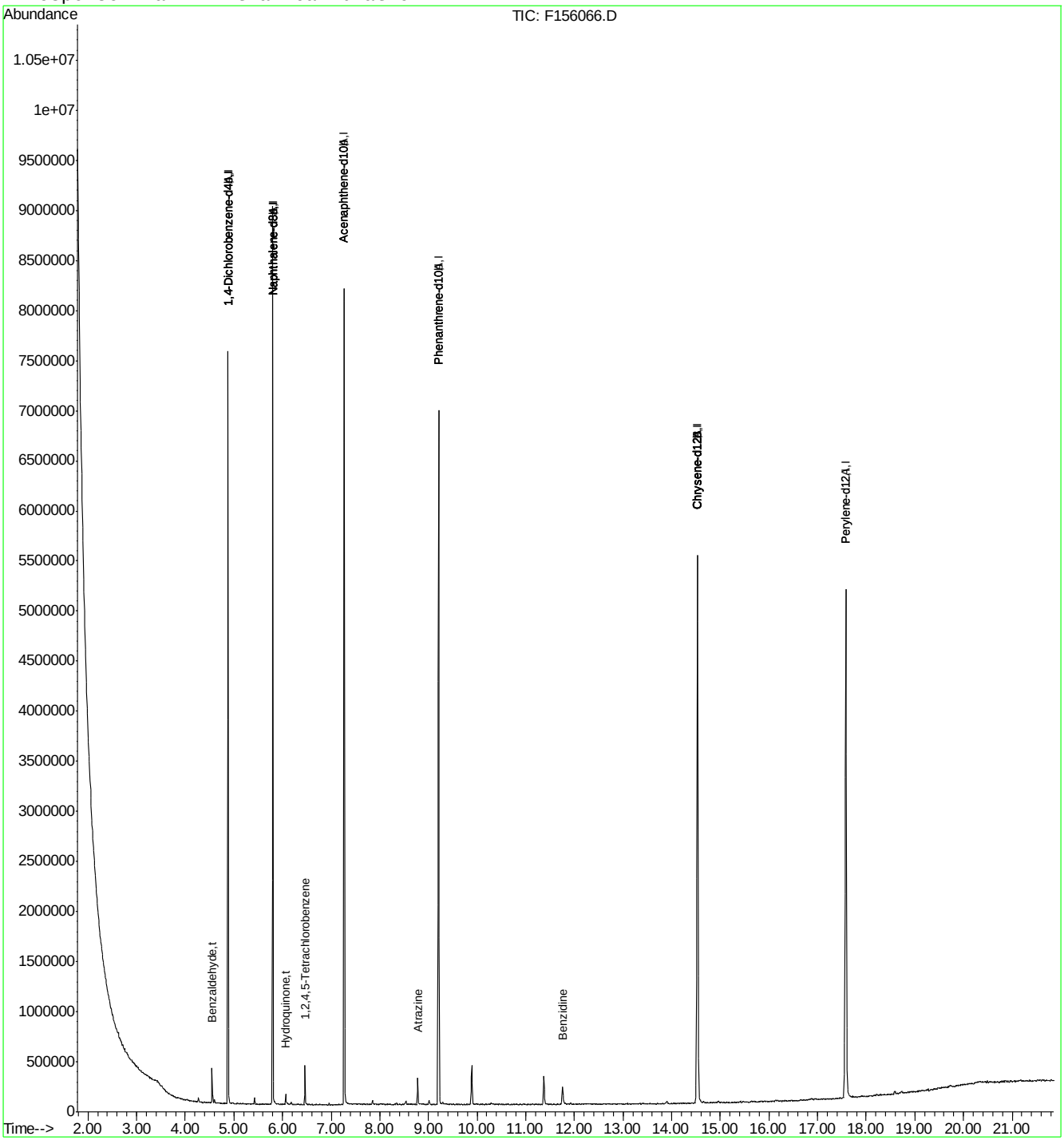
(#) = qualifier out of range (m) = manual integration (+) = signals summed
F156066.D MF6563.M Tue Apr 05 10:12:03 2016 RT1

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156066.D Vial: 8
Acq On : 5 Apr 2016 2:19 am Operator: sarad
Sample : ic6564-2 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 5 10:11 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:55:18 2016
Response via : Initial Calibration



F156066.D MF6563.M Tue Apr 05 10:12:03 2016 RT1 Page 2

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156067.D Vial: 9
Acq On : 5 Apr 2016 2:48 am Operator: sarad
Sample : ic6564-1 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 09:56:35 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:55:18 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	901429	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	3431104	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	1802430	40.00	ppm	0.00
69) Phenanthrene-d10	9.21	188	3227891	40.00	ppm	0.00
83) Chrysene-d12	14.53	240	3012466	40.00	ppm	-0.02
92) Perylene-d12	17.58	264	2866400	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4A	4.88	152	901429	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	3431104	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	1802430	40.00	ppm	0.00
132) Phenanthrene-d10A	9.21	188	3227891	40.00	ppm	0.00
147) Chrysene-d12A	14.53	240	3012466	40.00	ppm	-0.02
155) Perylene-d12A	17.58	264	2866400	40.00	ppm	-0.01
159) 1,4-Dichlorobenzene-d4b	4.88	152	901429	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	3431104	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	1802430	40.00	ppm	0.00
165) Phenanthrene-d10b	9.21	188	3227891	40.00	ppm	0.00
167) Chrysene-d12b	14.53	240	3012466	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.88	152	901429	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	3431104	40.00	ppm	0.00
176) Chrysene-d12c	14.53	240	3012466	40.00	ppm	-0.02
178) Naphthalene-d8a	5.80	136	3431104	40.00	ppm	0.15
180) Chrysene-d12B	14.53	240	3012466	40.00	ppm	0.22

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.00	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.00	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.00	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.00	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

Target Compounds						Qvalue
160) Benzaldehyde	4.56	105	30190	1.64	ppm	94
162) Hydroquinone	6.06	110	21604	0.78	ppm	94
164) 1,2,4,5-Tetrachlorobenzene	6.46	216	29618	1.49	ppm	95
166) Atrazine	8.78	200	16149	1.19	ppm	98
168) Benzidine	11.76	184	50022	1.51	ppm	97

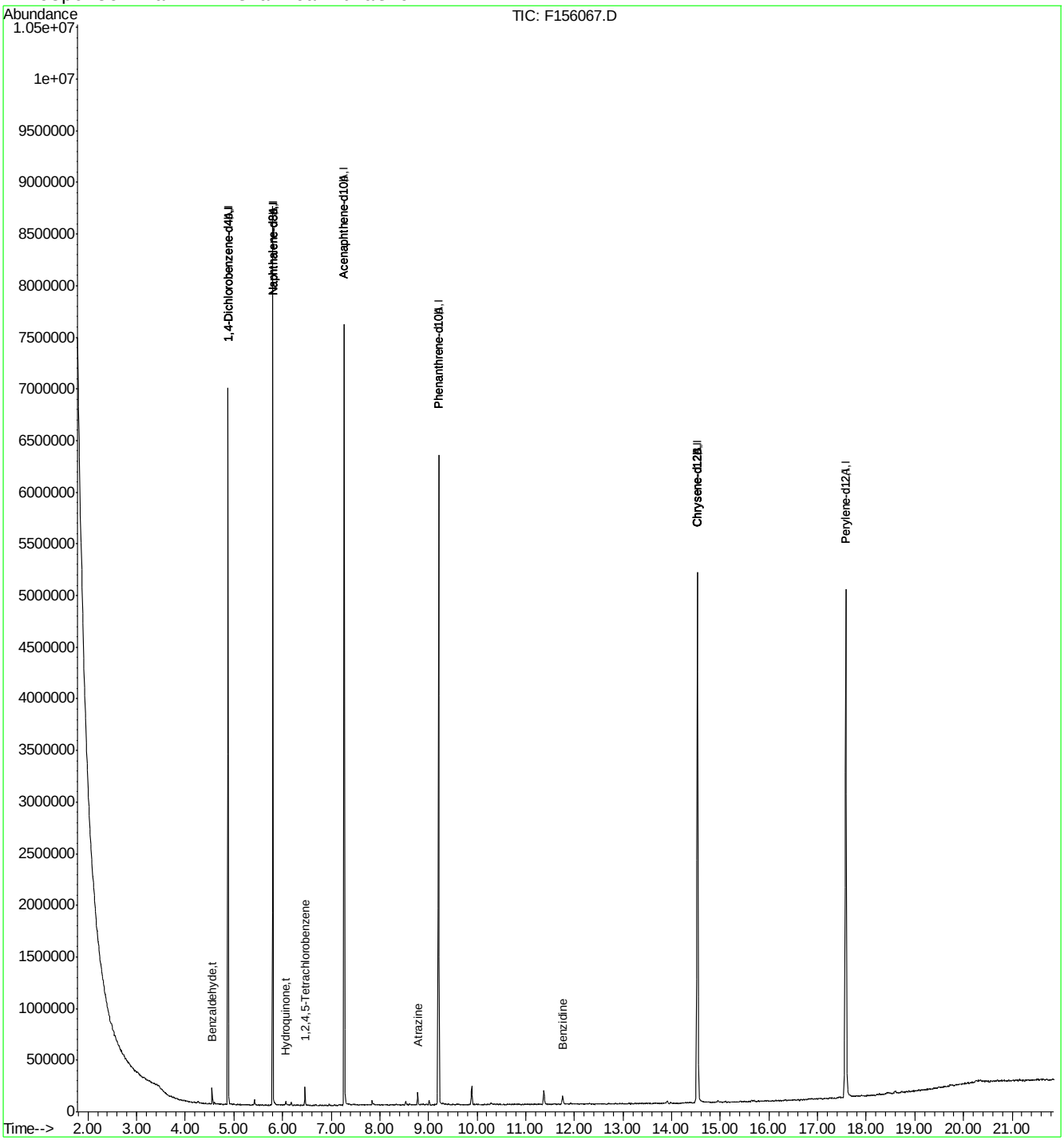
(#) = qualifier out of range (m) = manual integration (+) = signals summed
F156067.D MF6563.M Tue Apr 05 10:12:49 2016 RT1

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156067.D Vial: 9
Acq On : 5 Apr 2016 2:48 am Operator: sarad
Sample : ic6564-1 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 5 10:12 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:55:18 2016
Response via : Initial Calibration



F156067.D MF6563.M Tue Apr 05 10:12:49 2016 RT1 Page 2

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156069.D Vial: 11
Acq On : 5 Apr 2016 3:46 am Operator: sarad
Sample : icv6563-50 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 10:36:52 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 10:36:50 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	864272	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	3423451	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	2005879	40.00	ppm	0.00
69) Phenanthrene-d10	9.21	188	3116817	40.00	ppm	-0.01
83) Chrysene-d12	14.53	240	2569410	40.00	ppm	-0.02
92) Perylene-d12	17.58	264	1956035	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4A	4.88	152	864272	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	3423451	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	2005879	40.00	ppm	0.00
132) Phenanthrene-d10A	9.21	188	3116817	40.00	ppm	-0.01
147) Chrysene-d12A	14.53	240	2569410	40.00	ppm	-0.02
155) Perylene-d12A	17.58	264	1956035	40.00	ppm	-0.01
159) 1,4-Dichlorobenzene-d4b	4.88	152	864272	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	3423451	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	2005879	40.00	ppm	0.00
165) Phenanthrene-d10b	9.21	188	3116817	40.00	ppm	0.00
167) Chrysene-d12b	14.53	240	2569410	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.88	152	864272	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	3423451	40.00	ppm	0.00
176) Chrysene-d12c	14.53	240	2569410	40.00	ppm	-0.02
178) Naphthalene-d8a	5.80	136	3423451	40.00	ppm	0.15
180) Chrysene-d12B	14.53	240	2569410	40.00	ppm	0.22

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.00	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.00	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.00	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.00	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

Target Compounds

						Qvalue
3) Pyridine	2.86	79	1586125	50.31	ppm	99
10) Aniline	4.64	93	2279154	52.93	ppm	100
16) Benzyl alcohol	4.98	108	994014	48.58	ppm	97
39) 4-Chloroaniline	5.85	127	1781416	46.15	ppm	97
44) 2-Methylnaphthalene	6.33	141	2274002	43.13	ppm	100
54) 2-Nitroaniline	6.82	65	730620	44.48	ppm	99
58) 3-Nitroaniline	7.21	138	763794	43.52	ppm	98
62) Dibenzofuran	7.49	168	3529125	43.82	ppm	100
68) 4-Nitroaniline	7.90	138	731613	41.28	ppm	98
79) Carbazole	9.61	167	3790834	44.96	ppm	99

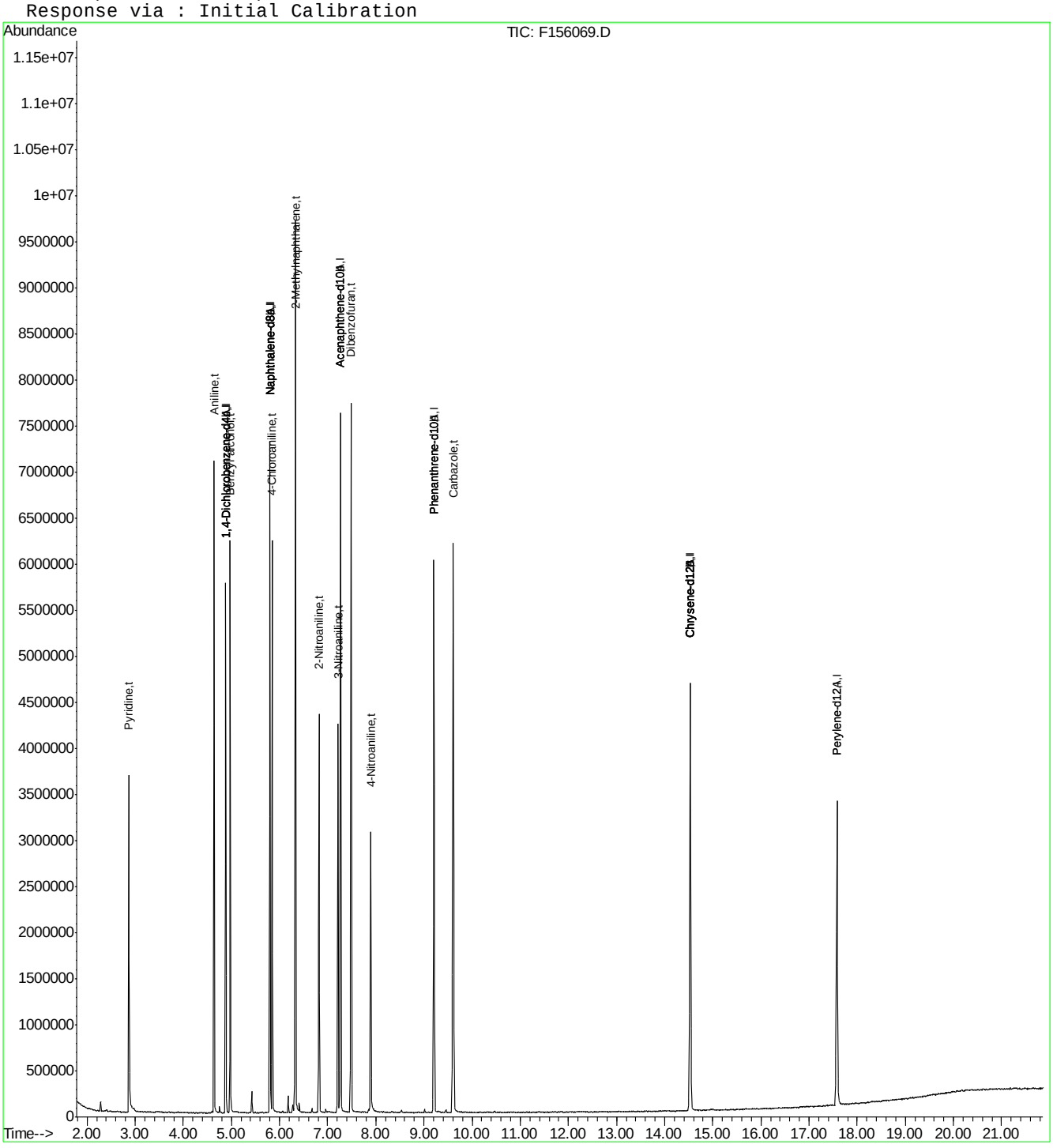
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156069.D Vial: 11
Acq On : 5 Apr 2016 3:46 am Operator: sarad
Sample : icv6563-50 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 5 10:38 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 10:36:50 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156070.D Vial: 12
Acq On : 5 Apr 2016 4:15 am Operator: sarad
Sample : icv6563-50 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 09:46:20 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:45:41 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	887640	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	3267655	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	1882697	40.00	ppm	0.00
69) Phenanthrene-d10	9.21	188	2875140	40.00	ppm	-0.01
83) Chrysene-d12	14.53	240	2396451	40.00	ppm	-0.02
92) Perylene-d12	17.58	264	2121009	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4A	4.88	152	887640	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	3267655	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	1882697	40.00	ppm	0.00
132) Phenanthrene-d10A	9.21	188	2875140	40.00	ppm	-0.01
147) Chrysene-d12A	14.53	240	2396451	40.00	ppm	-0.02
155) Perylene-d12A	17.58	264	2121009	40.00	ppm	-0.01
159) 1,4-Dichlorobenzene-d4b	4.88	152	887640	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	3267655	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	1882697	40.00	ppm	0.00
165) Phenanthrene-d10b	9.21	188	2875140	40.00	ppm	0.00
167) Chrysene-d12b	14.53	240	2396451	40.00	ppm	0.13
169) 1,4-Dichlorobenzene-d4c	4.88	152	887640	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	3267655	40.00	ppm	0.00
176) Chrysene-d12c	14.53	240	2396451	40.00	ppm	-0.02
178) Naphthalene-d8a	5.80	136	3267655	40.00	ppm	0.15
180) Chrysene-d12B	14.53	240	2396451	40.00	ppm	0.22

System Monitoring Compounds						
5) 2-Fluorophenol	3.89	112	1362727	43.66	ppm	0.00
Spiked Amount 50.000			Recovery = 87.32%			
8) Phenol-d5	4.60	99	1634955	43.07	ppm	0.00
Spiked Amount 50.000			Recovery = 86.14%			
25) Nitrobenzene-d5	5.28	82	1353390	44.35	ppm	0.00
Spiked Amount 50.000			Recovery = 88.70%			
51) 2-Fluorobiphenyl	6.63	172	2602481	43.31	ppm	0.00
Spiked Amount 50.000			Recovery = 86.62%			
73) 2,4,6-Tribromophenol	8.19	330	257319	43.86	ppm	-0.01
Spiked Amount 50.000			Recovery = 87.72%			
85) Terphenyl-d14	12.30	244	2096294	43.07	ppm	0.00
Spiked Amount 50.000			Recovery = 86.14%			

Target Compounds Qvalue

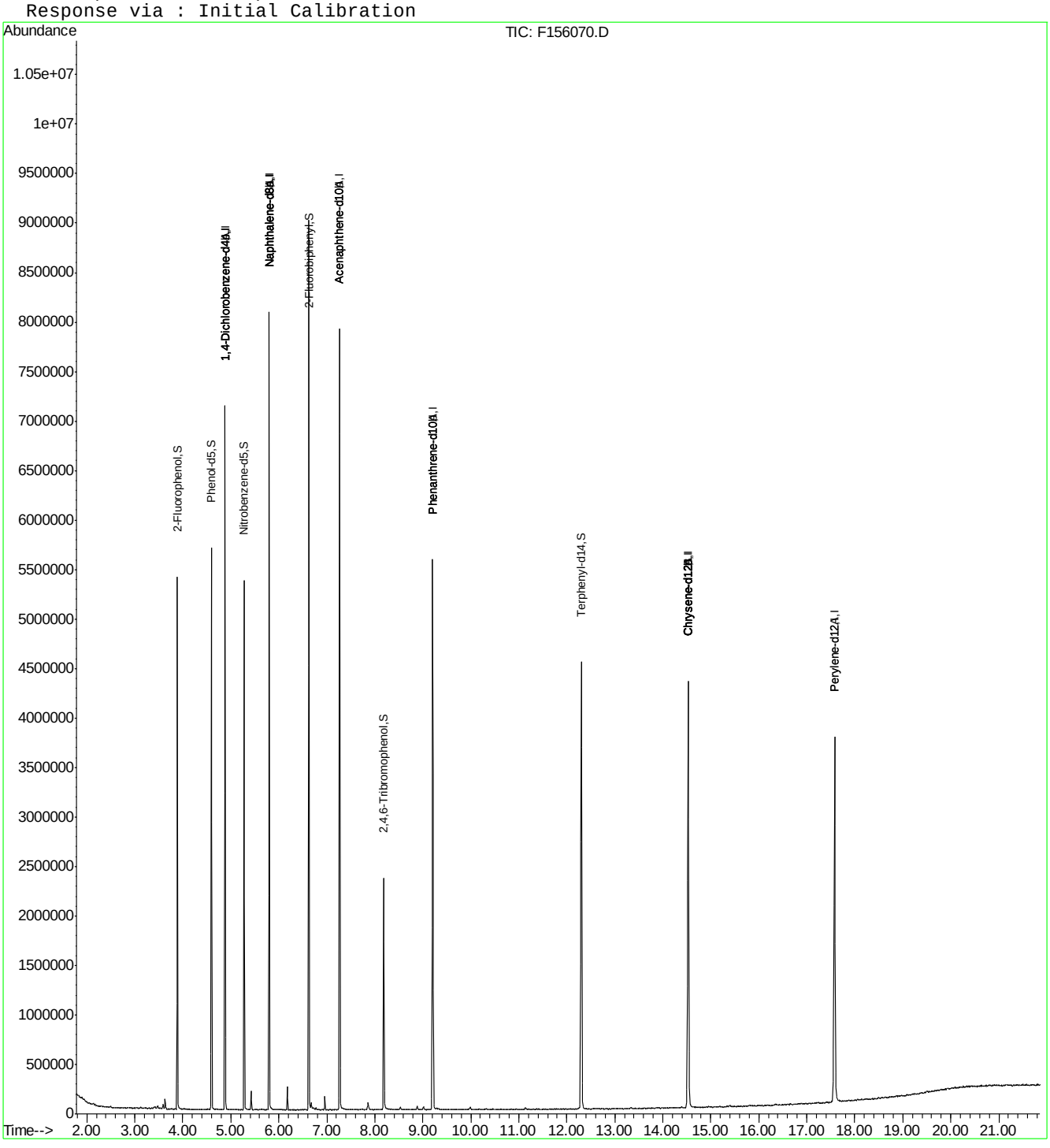
(#) = qualifier out of range (m) = manual integration (+) = signals summed
F156070.D MF6563.M Wed Apr 06 15:30:52 2016 RT1

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156070.D Vial: 12
Acq On : 5 Apr 2016 4:15 am Operator: sarad
Sample : icv6563-50 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 5 10:39 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Apr 06 08:33:31 2016
Response via : Initial Calibration



F156070.D MF6563.M Wed Apr 06 15:30:52 2016 RT1 Page 2

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156071.D Vial: 13
Acq On : 5 Apr 2016 4:44 am Operator: sarad
Sample : icv6563-50 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 10:44:21 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 10:36:50 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	791654	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	2940255	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	1650821	40.00	ppm	0.00
69) Phenanthrene-d10	9.21	188	2527126	40.00	ppm	0.00
83) Chrysene-d12	14.54	240	2041490	40.00	ppm	-0.01
92) Perylene-d12	17.58	264	1894786	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4A	4.88	152	791654	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	2940255	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	1650821	40.00	ppm	0.00
132) Phenanthrene-d10A	9.21	188	2527126	40.00	ppm	0.00
147) Chrysene-d12A	14.54	240	2041490	40.00	ppm	-0.01
155) Perylene-d12A	17.58	264	1894786	40.00	ppm	-0.01
159) 1,4-Dichlorobenzene-d4b	4.88	152	791654	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	2940255	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	1650821	40.00	ppm	0.00
165) Phenanthrene-d10b	9.21	188	2527126	40.00	ppm	0.00
167) Chrysene-d12b	14.54	240	2041490	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.88	152	791654	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	2940255	40.00	ppm	0.00
176) Chrysene-d12c	14.54	240	2041490	40.00	ppm	-0.01
178) Naphthalene-d8a	5.80	136	2940255	40.00	ppm	0.15
180) Chrysene-d12B	14.54	240	2041490	40.00	ppm	0.23

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.00	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.00	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.00	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.00	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

Target Compounds

						Qvalue
4) N-Nitrosodimethylamine	2.76	42	485916	46.76	ppm	98
11) bis(2-Chloroethyl)ether	4.68	93	1249072	48.18	ppm	98
14) 1,3-Dichlorobenzene	4.84	146	1514832	46.47	ppm	98
15) 1,4-Dichlorobenzene	4.89	146	1530755	47.07	ppm	100
17) 1,2-Dichlorobenzene	5.00	146	1452410	47.50	ppm	98
20) 2,2'-oxybis(1-Chloropropan	5.08	121	402803	43.10	ppm	97
22) n-Nitroso-di-n-propylamine	5.17	70	882539	46.14	ppm	94
23) Hexachloroethane	5.25	201	468808	46.54	ppm	96
26) Nitrobenzene	5.29	77	1327194	46.15	ppm	94
28) Isophorone	5.46	82	2413879	49.15	ppm	96
32) bis(2-Chloroethoxy)methane	5.62	93	1407061	45.46	ppm	99
36) 1,2,4-Trichlorobenzene	5.76	180	1103469	45.47	ppm	98

(#) = qualifier out of range (m) = manual integration
F156071.D MF6563.M Thu Apr 07 09:52:13 2016 RT1

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156071.D Vial: 13
Acq On : 5 Apr 2016 4:44 am Operator: sarad
Sample : icv6563-50 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 10:44:21 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 10:36:50 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38)	Naphthalene	5.82	128	3790901	47.22	ppm	99
42)	Hexachlorobutadiene	5.90	225	535368	46.60	ppm	99
52)	2-Chloronaphthalene	6.74	162	2215777	46.45	ppm	97
55)	Dimethylphthalate	6.98	163	2349889	44.02	ppm	100
56)	Acenaphthylene	7.13	152	3539399	45.77	ppm	99
57)	2,6-Dinitrotoluene	7.05	165	515828	44.71	ppm	93
59)	Acenaphthene	7.30	153	2278169	46.91	ppm	99
63)	2,4-Dinitrotoluene	7.46	165	654129	41.83	ppm	99
65)	Diethylphthalate	7.74	149	2254990	42.74	ppm	100
66)	Fluorene	7.89	166	2284573	44.79	ppm	100
67)	4-Chlorophenyl-phenylether	7.89	204	961950	42.80	ppm	96
71)	n-Nitrosodiphenylamine	8.03	169	1599662	44.14	ppm	99
72)	1,2-Diphenylhydrazine	8.08	77	2466045	49.23	ppm	100
74)	4-Bromophenyl-phenylether	8.54	248	568052	46.63	ppm	99
75)	Hexachlorobenzene	8.62	284	556035	47.82	ppm	95
77)	Phenanthrene	9.25	178	3414104	46.87	ppm	98
78)	Anthracene	9.33	178	3410039	46.76	ppm	99
80)	Di-n-butylphthalate	10.32	149	3880513	45.44	ppm	100
81)	Fluoranthene	11.42	202	3358980	46.50	ppm	99
84)	Pyrene	11.88	202	3587015	49.54	ppm	98
86)	Butylbenzylphthalate	13.48	149	1628471	45.79	ppm	98
88)	Benzo[a]anthracene	14.52	228	2835540	45.86	ppm	100
90)	Chrysene	14.59	228	2848434	46.34	ppm	99
91)	bis(2-Ethylhexyl)phthalate	14.89	149	2239893	45.45	ppm	98
93)	Di-n-octylphthalate	16.35	149	3823114	46.05	ppm	99
94)	Benzo[b]fluoranthene	16.83	252	2720341	46.45	ppm	99
95)	Benzo[k]fluoranthene	16.89	252	2848494	49.70	ppm	99
96)	Benzo[a]pyrene	17.47	252	2596492	48.44	ppm	99
97)	Indeno[1,2,3-cd]pyrene	19.53	276	2372059	47.96	ppm	99
99)	Dibenz[a,h]anthracene	19.59	278	2304304	48.15	ppm	98
101)	Benzo[g,h,i]perylene	19.95	276	2556304	47.82	ppm	97

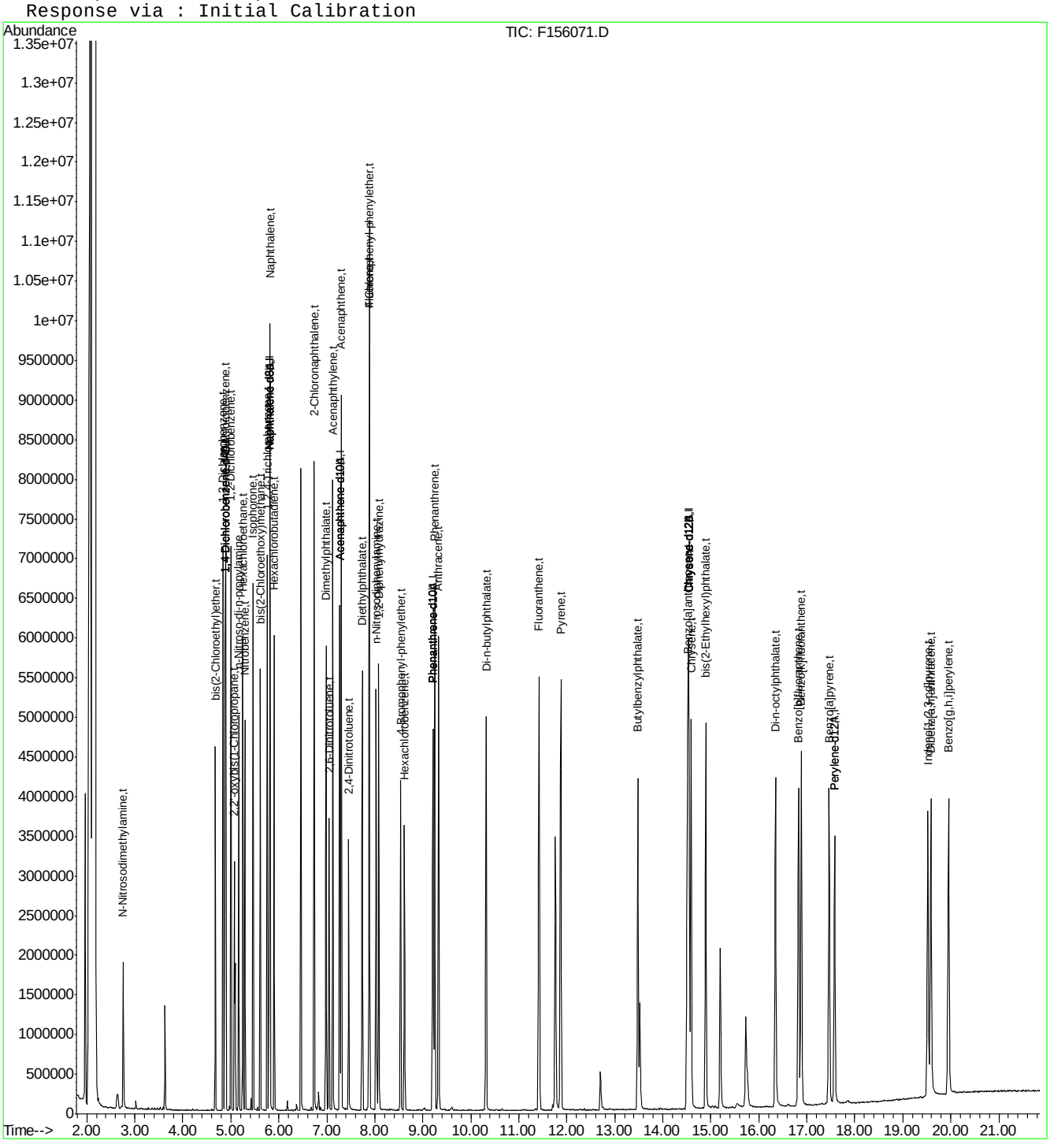
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156071.D Vial: 13
Acq On : 5 Apr 2016 4:44 am Operator: sarad
Sample : icv6563-50 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 7 9:52 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Apr 06 08:33:31 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156071A.D Vial: 13
Acq On : 5 Apr 2016 4:44 am Operator: sarad
Sample : icv6563-50 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 10:44:21 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 10:36:50 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	791654	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	2940255	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	1650821	40.00	ppm	0.00
69) Phenanthrene-d10	9.21	188	2527126	40.00	ppm	0.00
83) Chrysene-d12	14.54	240	2041490	40.00	ppm	-0.01
92) Perylene-d12	17.58	264	1894786	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4A	4.88	152	791654	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	2940255	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	1650821	40.00	ppm	0.00
132) Phenanthrene-d10A	9.21	188	2527126	40.00	ppm	0.00
147) Chrysene-d12A	14.54	240	2041490	40.00	ppm	-0.01
155) Perylene-d12A	17.58	264	1894786	40.00	ppm	-0.01
159) 1,4-Dichlorobenzene-d4b	4.88	152	791654	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	2940255	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	1650821	40.00	ppm	0.00
165) Phenanthrene-d10b	9.21	188	2527126	40.00	ppm	0.00
167) Chrysene-d12b	14.54	240	2041490	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.88	152	791654	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	2940255	40.00	ppm	0.00
176) Chrysene-d12c	14.54	240	2041490	40.00	ppm	-0.01
178) Naphthalene-d8a	5.80	136	2940255	40.00	ppm	0.15
180) Chrysene-d12B	14.54	240	2041490	40.00	ppm	0.23

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.00	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.00	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.00	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.00	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

Target Compounds						Qvalue
164) 1,2,4,5-Tetrachlorobenzene	6.46	216	1023403	44.56	ppm	98

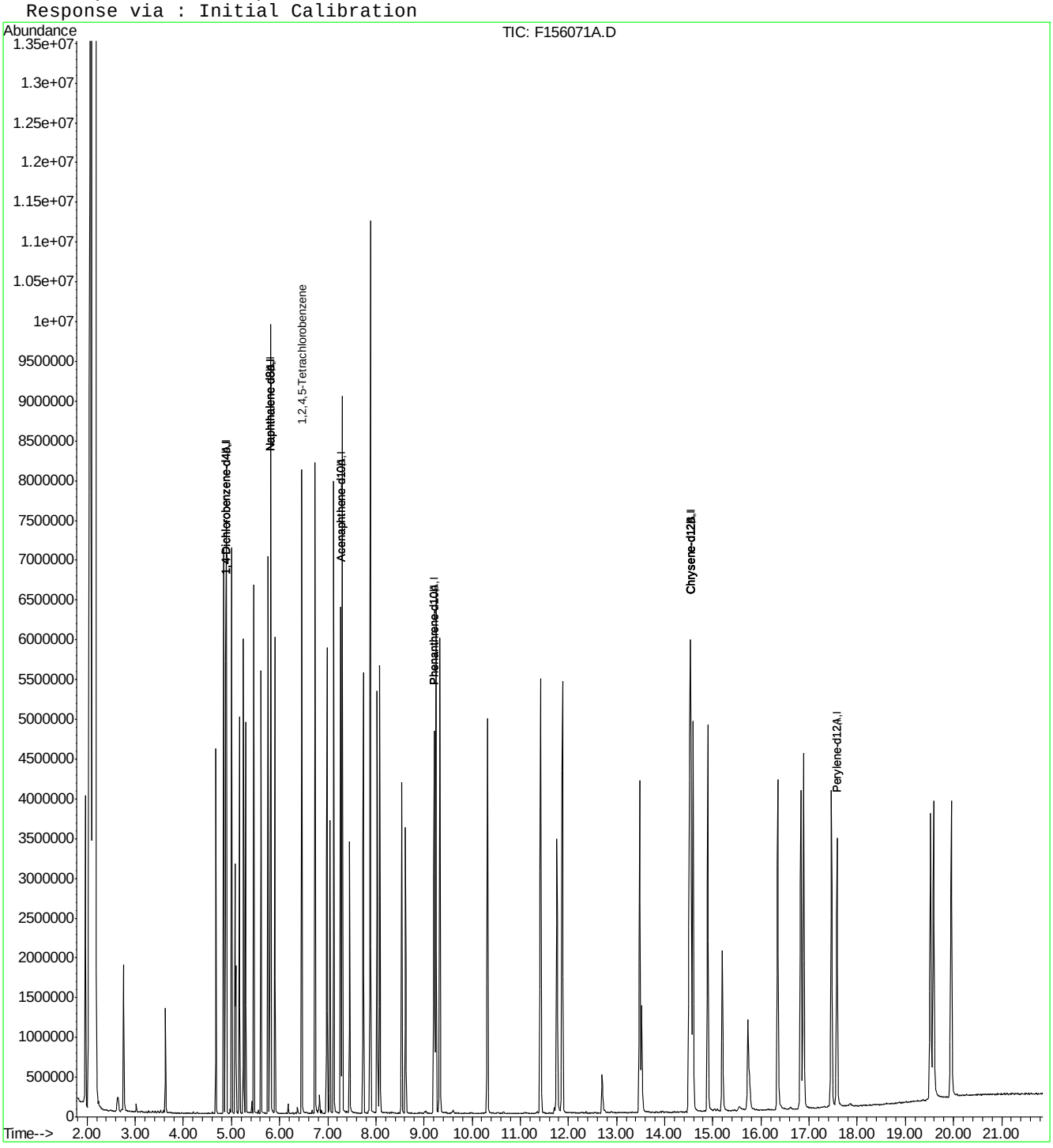
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156071A.D Vial: 13
Acq On : 5 Apr 2016 4:44 am Operator: sarad
Sample : icv6563-50 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 7 9:52 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Apr 06 08:33:31 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156072A.D Vial: 14
Acq On : 5 Apr 2016 5:13 am Operator: sarad
Sample : icv6563-50 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 10:55:42 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 10:36:50 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	857846	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	3576668	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	1817820	40.00	ppm	0.00
69) Phenanthrene-d10	9.21	188	2775738	40.00	ppm	0.00
83) Chrysene-d12	14.53	240	2296061	40.00	ppm	-0.02
92) Perylene-d12	17.58	264	1979067	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4A	4.88	152	857846	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	3576668	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	1817820	40.00	ppm	0.00
132) Phenanthrene-d10A	9.21	188	2775738	40.00	ppm	0.00
147) Chrysene-d12A	14.53	240	2296061	40.00	ppm	-0.02
155) Perylene-d12A	17.58	264	1979067	40.00	ppm	-0.01
159) 1,4-Dichlorobenzene-d4b	4.88	152	857846	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	3576668	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	1817820	40.00	ppm	0.00
165) Phenanthrene-d10b	9.21	188	2775738	40.00	ppm	0.00
167) Chrysene-d12b	14.53	240	2296061	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.88	152	857846	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	3576668	40.00	ppm	0.00
176) Chrysene-d12c	14.53	240	2296061	40.00	ppm	-0.02
178) Naphthalene-d8a	5.80	136	3576668	40.00	ppm	0.15
180) Chrysene-d12B	14.53	240	2296061	40.00	ppm	0.22

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.00	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.00	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.00	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.00	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

Target Compounds						Qvalue
160) Benzaldehyde	4.56	105	1094500	45.31	ppm	99
166) Atrazine	8.79	200	597779	44.80	ppm	99

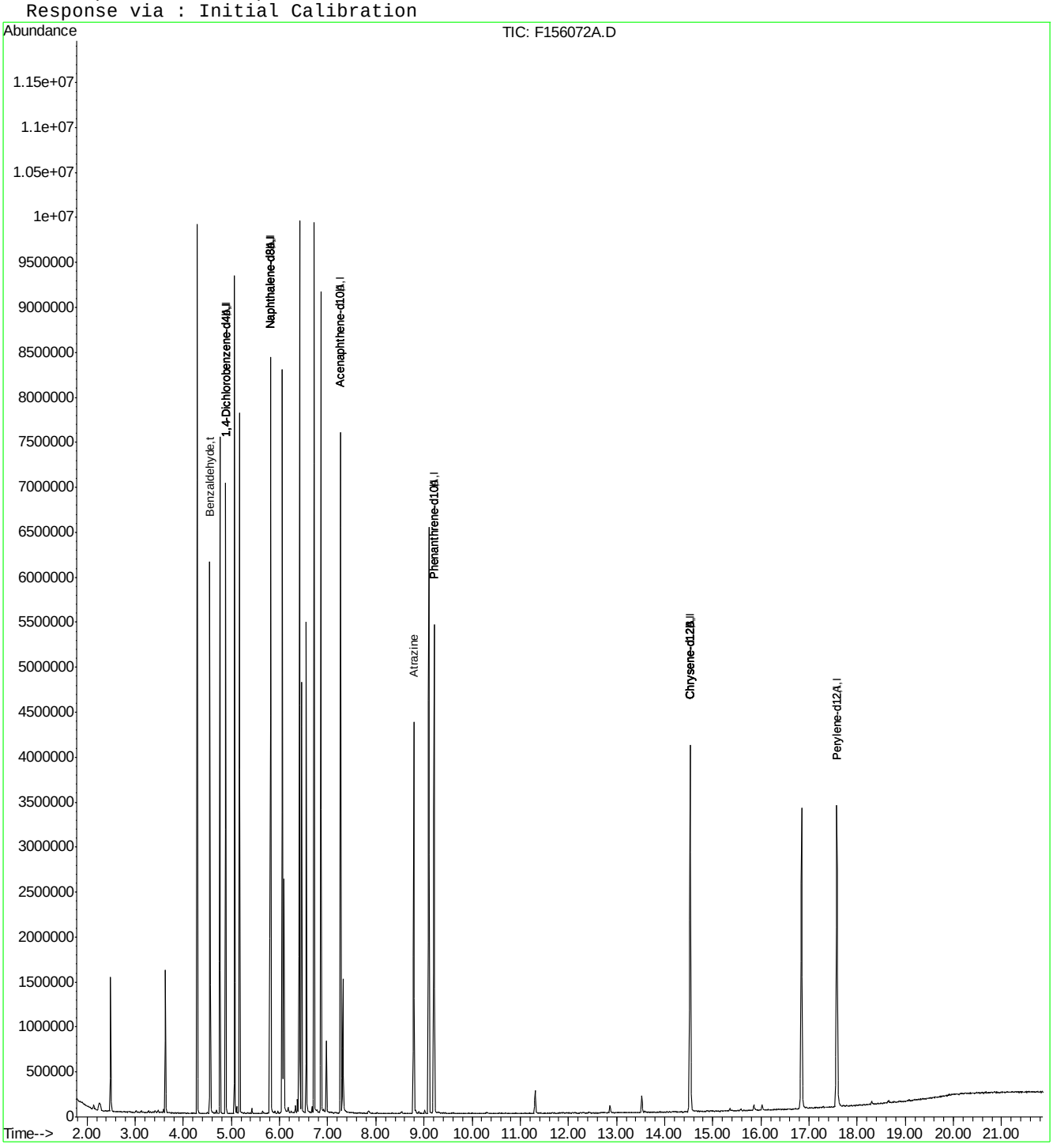
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156072A.D Vial: 14
Acq On : 5 Apr 2016 5:13 am Operator: sarad
Sample : icv6563-50 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 7 9:53 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Apr 06 08:33:31 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156072.D Vial: 14
Acq On : 5 Apr 2016 5:13 am Operator: sarad
Sample : icv6563-50 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 10:55:42 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 10:36:50 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	857846	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	3576668	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	1817820	40.00	ppm	0.00
69) Phenanthrene-d10	9.21	188	2775738	40.00	ppm	0.00
83) Chrysene-d12	14.53	240	2296061	40.00	ppm	-0.02
92) Perylene-d12	17.58	264	1979067	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4A	4.88	152	857846	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	3576668	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	1817820	40.00	ppm	0.00
132) Phenanthrene-d10A	9.21	188	2775738	40.00	ppm	0.00
147) Chrysene-d12A	14.53	240	2296061	40.00	ppm	-0.02
155) Perylene-d12A	17.58	264	1979067	40.00	ppm	-0.01
159) 1,4-Dichlorobenzene-d4b	4.88	152	857846	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	3576668	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	1817820	40.00	ppm	0.00
165) Phenanthrene-d10b	9.21	188	2775738	40.00	ppm	0.00
167) Chrysene-d12b	14.53	240	2296061	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.88	152	857846	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	3576668	40.00	ppm	0.00
176) Chrysene-d12c	14.53	240	2296061	40.00	ppm	-0.02
178) Naphthalene-d8a	5.80	136	3576668	40.00	ppm	0.15
180) Chrysene-d12B	14.53	240	2296061	40.00	ppm	0.22

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.00	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.00	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.00	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.00	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

Target Compounds

						Qvalue
2) 1,4-Dioxane	2.49	88	587733	44.25	ppm	97
6) Indene	5.07	116	2402169	47.31	ppm	99
7) Cumene	4.29	105	3028952	44.41	ppm	100
13) Decane	4.76	43	1199734	43.79	ppm	97
18) Acetophenone	5.17	105	1787382	46.56	ppm	92
27) Quinoline	6.05	129	2584470	37.39	ppm	97
41) Caprolactam	6.09	55	501453	36.96	ppm	97
45) 1-Methylnaphthalene	6.41	141	2097104	36.99	ppm	99
46) Dimethylnaphthalene	6.86	156	2148084	37.40	ppm	100
48) Hexachlorocyclopentadiene	6.46	237	630910	51.15	ppm	99
53) Biphenyl	6.72	154	2917712	43.26	ppm	100
82) Octadecane	9.10	57	1516617	46.58	ppm	100

(#) = qualifier out of range (m) = manual integration
F156072.D MF6563.M Thu Apr 07 09:52:51 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156072.D Vial: 14
Acq On : 5 Apr 2016 5:13 am Operator: sarad
Sample : icv6563-50 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 10:55:42 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 10:36:50 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
100) 7,12-Dimethylbenz(a)anthra	16.84	256	1106284	46.32 ppm	100

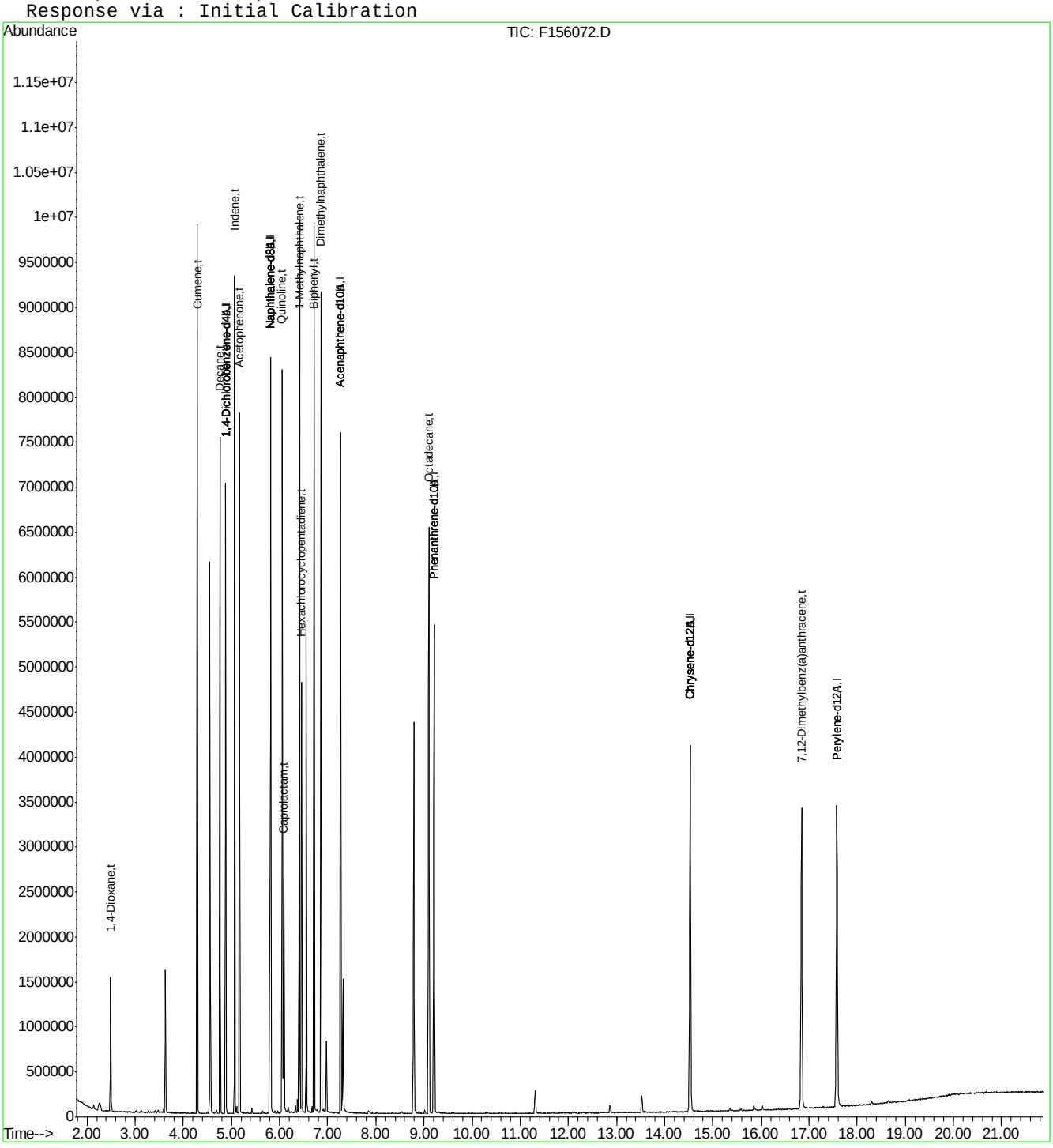
(#) = qualifier out of range (m) = manual integration (+) = signals summed
F156072.D MF6563.M Thu Apr 07 09:52:51 2016 RT1

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156072.D Vial: 14
Acq On : 5 Apr 2016 5:13 am Operator: sarad
Sample : icv6563-50 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 7 9:52 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Apr 06 08:33:31 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156073.D Vial: 15
Acq On : 5 Apr 2016 5:42 am Operator: sarad
Sample : icv6564-50 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 10:58:25 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 10:36:50 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	909903	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	3328731	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	1966387	40.00	ppm	0.00
69) Phenanthrene-d10	9.21	188	3138917	40.00	ppm	-0.01
83) Chrysene-d12	14.53	240	2735429	40.00	ppm	-0.02
92) Perylene-d12	17.58	264	2564354	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4A	4.88	152	909903	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	3328731	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	1966387	40.00	ppm	0.00
132) Phenanthrene-d10A	9.21	188	3138917	40.00	ppm	-0.01
147) Chrysene-d12A	14.53	240	2735429	40.00	ppm	-0.02
155) Perylene-d12A	17.58	264	2564354	40.00	ppm	-0.01
159) 1,4-Dichlorobenzene-d4b	4.88	152	909903	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	3328731	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	1966387	40.00	ppm	0.00
165) Phenanthrene-d10b	9.21	188	3138917	40.00	ppm	0.00
167) Chrysene-d12b	14.53	240	2735429	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.88	152	909903	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	3328731	40.00	ppm	0.00
176) Chrysene-d12c	14.53	240	2735429	40.00	ppm	-0.02
178) Naphthalene-d8a	5.80	136	3328731	40.00	ppm	0.15
180) Chrysene-d12B	14.53	240	2735429	40.00	ppm	0.22

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.00	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.00	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.00	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.00	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

Target Compounds

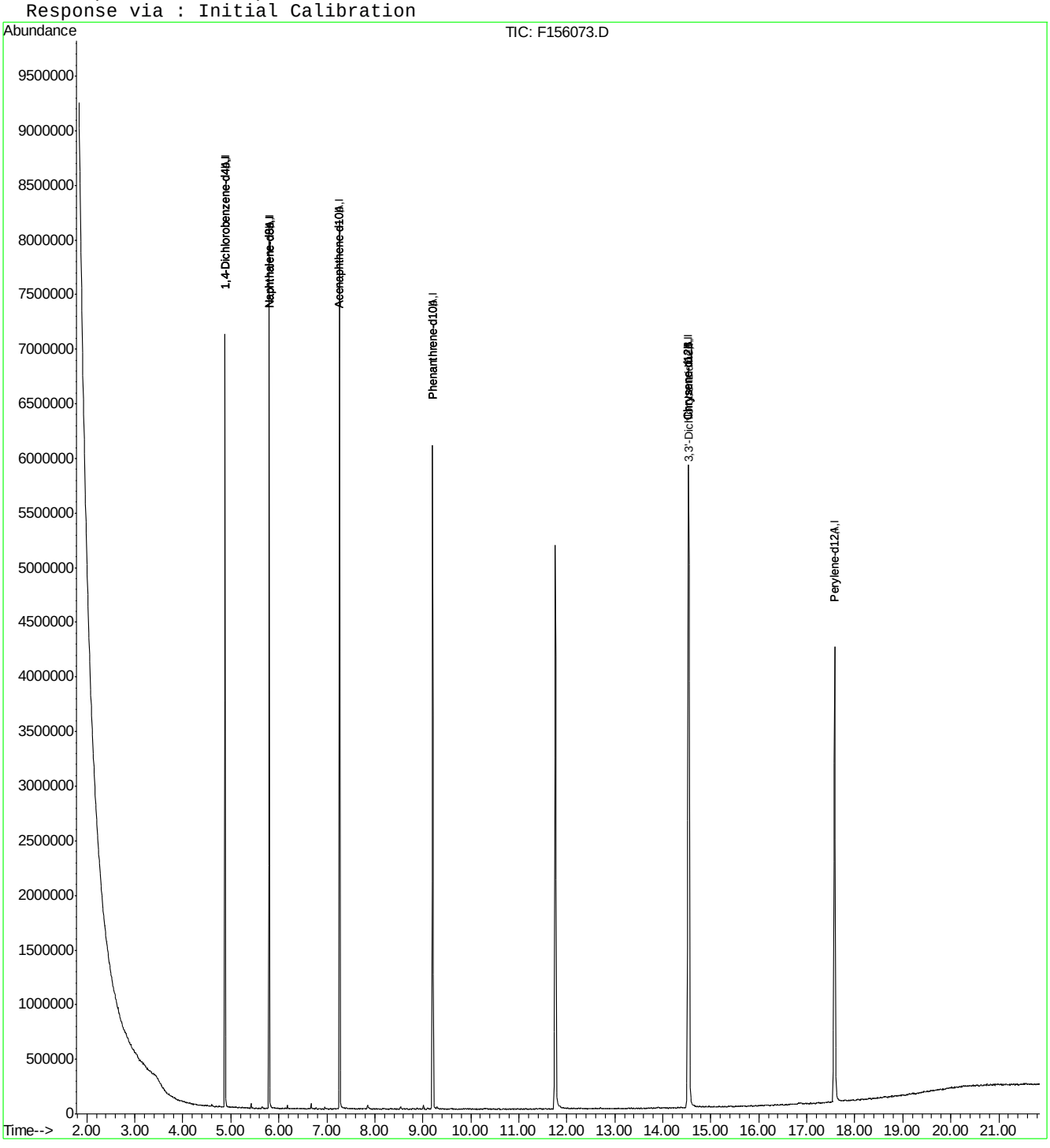
						Qvalue
89) 3,3'-Dichlorobenzidine	14.55	252	1355321	46.96	ppm	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
F156073.D MF6563.M Thu Apr 07 09:53:52 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156073.D Vial: 15
Acq On : 5 Apr 2016 5:42 am Operator: sarad
Sample : icv6564-50 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 7 9:53 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Apr 06 08:33:31 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156073A.D Vial: 15
Acq On : 5 Apr 2016 5:42 am Operator: sarad
Sample : icv6564-50 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 10:58:25 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 10:36:50 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	909903	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	3328731	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	1966387	40.00	ppm	0.00
69) Phenanthrene-d10	9.21	188	3138917	40.00	ppm	-0.01
83) Chrysene-d12	14.53	240	2735429	40.00	ppm	-0.02
92) Perylene-d12	17.58	264	2564354	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4A	4.88	152	909903	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	3328731	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	1966387	40.00	ppm	0.00
132) Phenanthrene-d10A	9.21	188	3138917	40.00	ppm	-0.01
147) Chrysene-d12A	14.53	240	2735429	40.00	ppm	-0.02
155) Perylene-d12A	17.58	264	2564354	40.00	ppm	-0.01
159) 1,4-Dichlorobenzene-d4b	4.88	152	909903	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	3328731	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	1966387	40.00	ppm	0.00
165) Phenanthrene-d10b	9.21	188	3138917	40.00	ppm	0.00
167) Chrysene-d12b	14.53	240	2735429	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.88	152	909903	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	3328731	40.00	ppm	0.00
176) Chrysene-d12c	14.53	240	2735429	40.00	ppm	-0.02
178) Naphthalene-d8a	5.80	136	3328731	40.00	ppm	0.15
180) Chrysene-d12B	14.53	240	2735429	40.00	ppm	0.22

System Monitoring Compounds						
5) 2-Fluorophenol	0.00	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.00	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.00	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.00	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.00	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

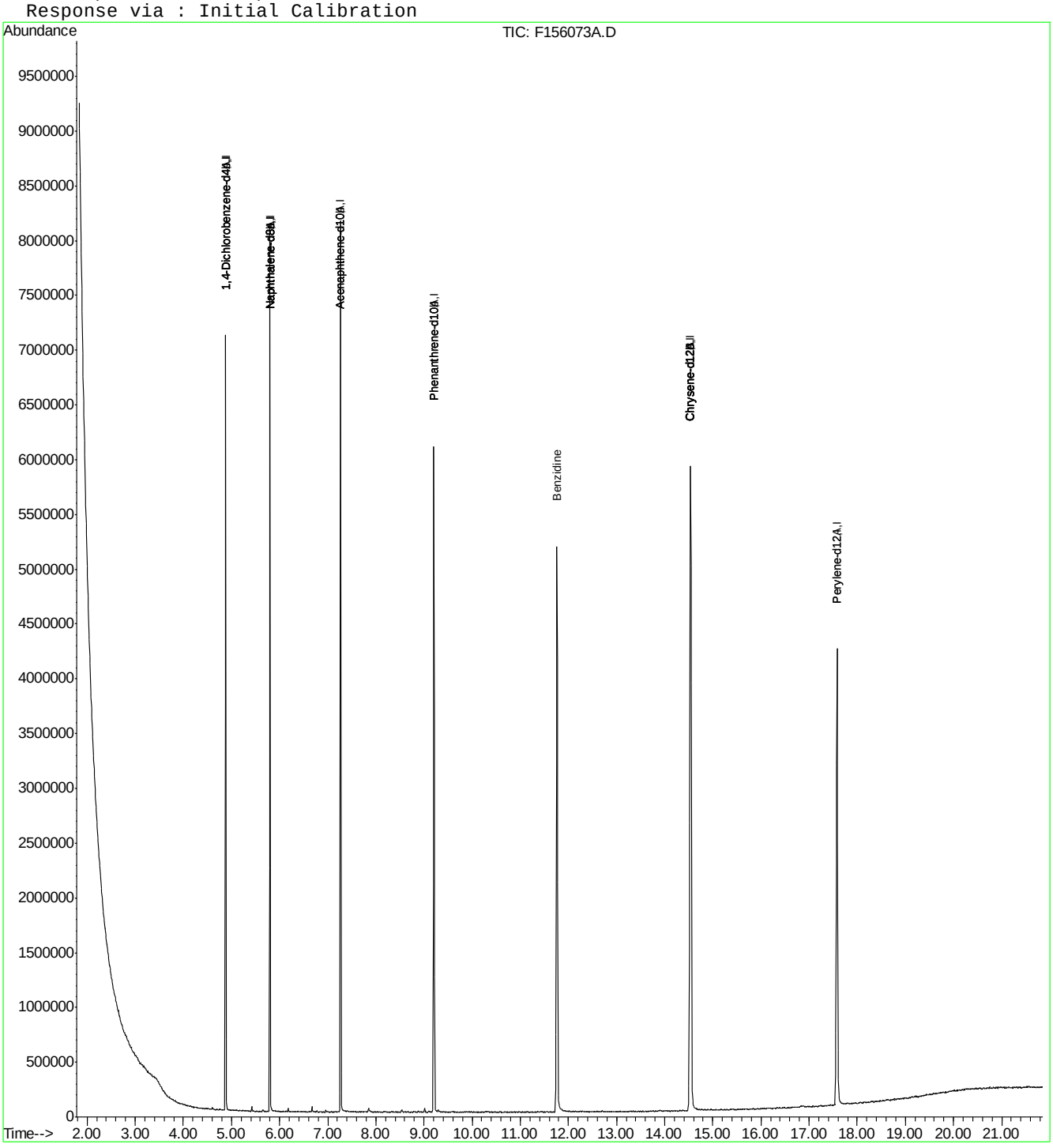
Target Compounds						Qvalue
168) Benzidine	11.76	184	3118781	65.60	ppm	99

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156073A.D Vial: 15
Acq On : 5 Apr 2016 5:42 am Operator: sarad
Sample : icv6564-50 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 7 9:53 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Apr 06 08:33:31 2016
Response via : Initial Calibration



F156073A.D MF6563.M Thu Apr 07 09:54:03 2016 RT1 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6567\F156097.D Vial: 10
Acq On : 5 Apr 2016 10:16 pm Operator: sarad
Sample : icv6564-50 Inst : MSF
Misc : op92661,ef6567 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 08 16:44:02 2016 Quant Results File: MF6563AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 16:43:38 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.87	152	549264	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	2140076	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	1242814	40.00	ppm	0.00
69) Phenanthrene-d10	9.21	188	2015567	40.00	ppm	0.00
83) Chrysene-d12	14.52	240	1762466	40.00	ppm	0.00
92) Perylene-d12	17.58	264	1617527	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4A	4.87	152	549264	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	2140076	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	1242814	40.00	ppm	0.00
132) Phenanthrene-d10A	9.21	188	2015567	40.00	ppm	0.00
147) Chrysene-d12A	14.52	240	1762466	40.00	ppm	0.00
155) Perylene-d12A	17.58	264	1617527	40.00	ppm	-0.01
159) 1,4-Dichlorobenzene-d4b	4.87	152	549264	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	2140076	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	1242814	40.00	ppm	0.00
165) Phenanthrene-d10b	9.21	188	2015567	40.00	ppm	0.00
167) Chrysene-d12b	14.52	240	1762466	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.87	152	549264	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	2140076	40.00	ppm	0.00
176) Chrysene-d12c	14.52	240	1762466	40.00	ppm	0.00
178) Naphthalene-d8a	5.80	136	2140076	40.00	ppm	0.00
180) Chrysene-d12B	14.52	240	1762466	40.00	ppm	0.02

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.00	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.00	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.00	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.00	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

Target Compounds						Qvalue
162) Hydroquinone	6.07	110	986234	56.47	ppm	92

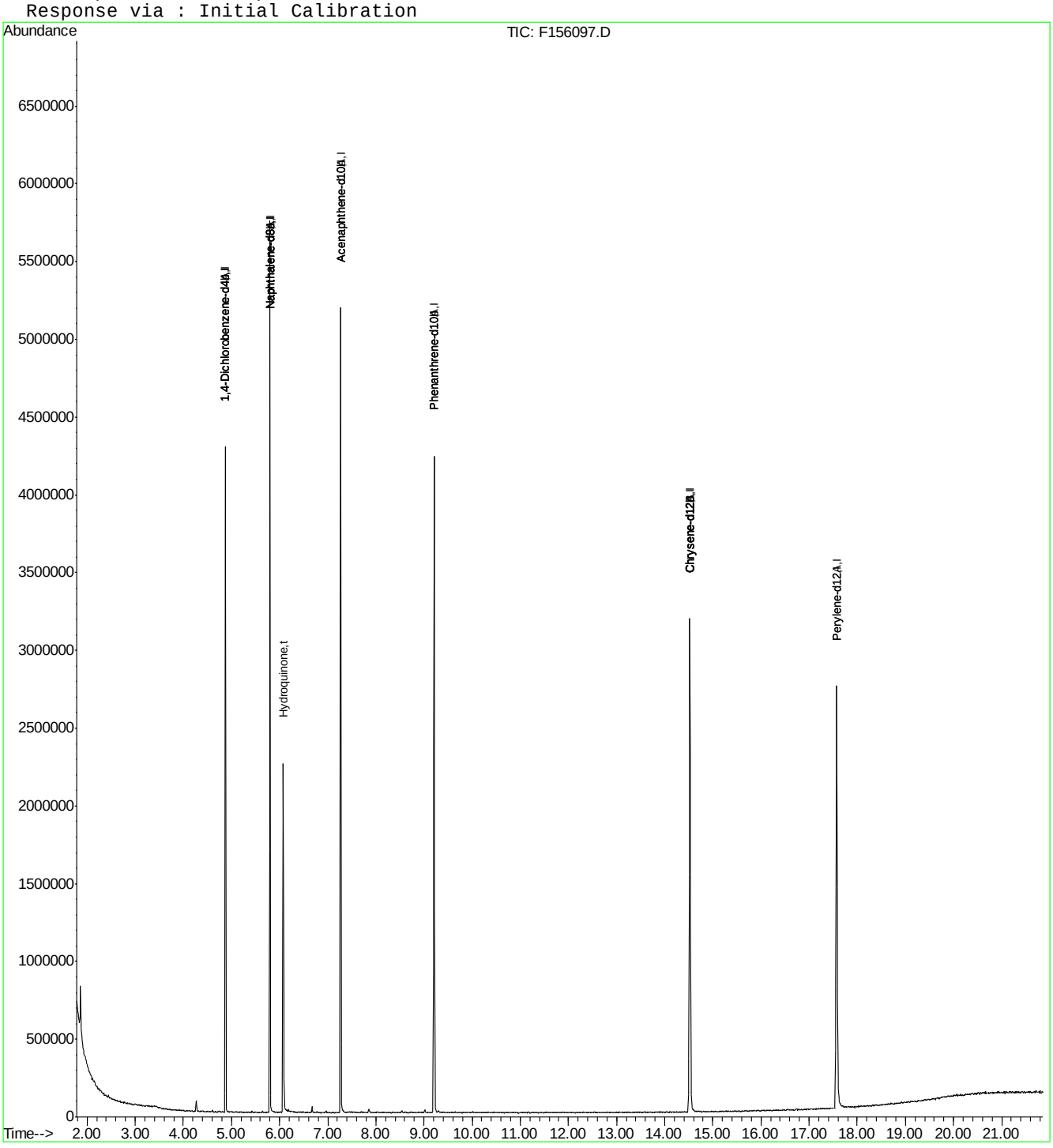
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6567\F156097.D Vial: 10
Acq On : 5 Apr 2016 10:16 pm Operator: sarad
Sample : icv6564-50 Inst : MSF
Misc : op92661,ef6567 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 16:45 2016 Quant Results File: MF6563AP9.RES

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 17:01:57 2016
Response via : Initial Calibration



F156097.D MF6563AP9.M Fri Apr 08 17:25:26 2016 RT1 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6610\F157059.D Vial: 2
Acq On : 13 May 2016 9:00 am Operator: brittanp
Sample : cc6563-50 Inst : MSF
Misc : op93756,ef6610 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 13 09:22:39 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed May 11 16:35:52 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.76	152	528955	40.00	ppm	-0.05
24) Naphthalene-d8	5.68	136	2136943	40.00	ppm	-0.05
47) Acenaphthene-d10	7.12	164	1244658	40.00	ppm	-0.06
69) Phenanthrene-d10	9.01	188	2015648	40.00	ppm	-0.09
83) Chrysene-d12	14.28	240	1869674	40.00	ppm	-0.10
92) Perylene-d12	17.33	264	1726859	40.00	ppm	-0.04
102) 1,4-Dichlorobenzene-d4b	4.76	152	528955	40.00	ppm	-0.05
104) Naphthalene-d8b	5.68	136	2136943	40.00	ppm	-0.05
106) Acenaphthene-d10b	7.12	164	1244658	40.00	ppm	-0.06
108) Phenanthrene-d10b	9.01	188	2015648	40.00	ppm	-0.09
110) Chrysene-d12b	14.28	240	1869674	40.00	ppm	-0.10
System Monitoring Compounds						
5) 2-Fluorophenol	3.81	112	916033	49.25	ppm	-0.02
Spiked Amount 50.000			Recovery = 98.50%			
8) Phenol-d5	4.53	99	1188640	52.54	ppm	-0.01
Spiked Amount 50.000			Recovery = 105.08%			
25) Nitrobenzene-d5	5.17	82	1152780	57.77	ppm	-0.05
Spiked Amount 50.000			Recovery = 115.54%			
51) 2-Fluorobiphenyl	6.50	172	1953980	49.19	ppm	-0.05
Spiked Amount 50.000			Recovery = 98.38%			
73) 2,4,6-Tribromophenol	8.02	330	250741	60.96	ppm	-0.07
Spiked Amount 50.000			Recovery = 121.92%			
85) Terphenyl-d14	12.06	244	1871732	49.29	ppm	-0.10
Spiked Amount 50.000			Recovery = 98.58%			

Target Compounds						Qvalue
2) 1,4-Dioxane	2.33	88	374736	45.75	ppm	98
3) Pyridine	2.65	79	993709	51.50	ppm	97
4) N-Nitrosodimethylamine	2.61	42	392832	56.58	ppm	93
6) Indene	4.94	116	1704136	54.44	ppm	96
7) Cumene	4.16	105	2381302	56.63	ppm	93
9) Phenol	4.54	94	1389899	57.72	ppm	97
10) Aniline	4.52	93	1206086	45.77	ppm #	32
11) bis(2-Chloroethyl)ether	4.56	93	931193	53.75	ppm	96
12) 2-Chlorophenol	4.62	128	970501	49.42	ppm	97
13) Decane	4.63	43	743084	43.98	ppm	90
14) 1,3-Dichlorobenzene	4.71	146	1049159	48.17	ppm	98
15) 1,4-Dichlorobenzene	4.77	146	1080859	49.74	ppm	98
16) Benzyl alcohol	4.87	108	633995	50.63	ppm #	72
17) 1,2-Dichlorobenzene	4.88	146	1012296	49.55	ppm	96
18) Acetophenone	5.05	105	1425140	60.20	ppm	98
19) 2-Methylphenol	4.97	108	884496	52.59	ppm	97
20) 2,2'-oxybis(1-Chloropropan	4.96	121	310580	49.73	ppm #	67
21) 3&4-Methylphenol	5.08	108	947379	54.92	ppm	97
22) n-Nitroso-di-n-propylamine	5.05	70	791484	61.93	ppm	96
23) Hexachloroethane	5.13	201	331837	49.30	ppm	93
26) Nitrobenzene	5.18	77	1224125	58.57	ppm	84
27) Quinoline	5.95	129	1942350	47.03	ppm	97
28) Isophorone	5.35	82	1983133	55.56	ppm	98

(#) = qualifier out of range (m) = manual integration

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6610\F157059.D Vial: 2
Acq On : 13 May 2016 9:00 am Operator: brittanp
Sample : cc6563-50 Inst : MSF
Misc : op93756,ef6610 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 13 09:22:39 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed May 11 16:35:52 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
29)	2-Nitrophenol	5.41	139	532992	49.16	ppm		86
30)	2,4-Dimethylphenol	5.46	107	999079	58.50	ppm		99
31)	Benzoic acid	5.56	105	822811	57.62	ppm		94
32)	bis(2-Chloroethoxy)methane	5.50	93	1120235	49.79	ppm		97
33)	2,4-Dichlorophenol	5.60	162	749657	43.95	ppm		96
34)	2,6-Dichlorophenol	5.75	162	741601	45.27	ppm		95
35)	1,3,5-Trichlorobenzene	5.41	180	823955	45.89	ppm		100
36)	1,2,4-Trichlorobenzene	5.64	180	820010	46.50	ppm		96
37)	1,2,3-Trichlorobenzene	5.80	180	802833	46.14	ppm		99
38)	Naphthalene	5.70	128	2980842	51.08	ppm		100
39)	4-Chloroaniline	5.74	127	1041874	43.24	ppm		97
40)	2,3-Dichloroaniline	6.43	161	904387	45.52	ppm		94
41)	Caprolactam	6.01	55	360897	44.52	ppm		92
42)	Hexachlorobutadiene	5.78	225	416351	49.86	ppm		98
43)	4-Chloro-3-methylphenol	6.12	107	927199	55.42	ppm	#	66
44)	2-Methylnaphthalene	6.20	141	1596853	48.53	ppm		96
45)	1-Methylnaphthalene	6.28	141	1662523	49.08	ppm		97
46)	Dimethylnaphthalene	6.72	156	1676827	48.86	ppm		98
48)	Hexachlorocyclopentadiene	6.33	237	958458	113.48	ppm		99
49)	2,4,6-Trichlorophenol	6.44	196	522098	49.44	ppm		97
50)	2,4,5-Trichlorophenol	6.49	196	560995	48.24	ppm		98
52)	2-Chloronaphthalene	6.60	162	1767258	49.14	ppm		95
53)	Biphenyl	6.58	154	2250341	48.73	ppm		99
54)	2-Nitroaniline	6.69	65	665705	65.31	ppm		87
55)	Dimethylphthalate	6.85	163	2017288	50.12	ppm		99
56)	Acenaphthylene	6.98	152	2878419	49.37	ppm		99
57)	2,6-Dinitrotoluene	6.91	165	459291	52.79	ppm		84
58)	3-Nitroaniline	7.08	138	502440	46.14	ppm		80
59)	Acenaphthene	7.15	153	1851660	50.57	ppm		95
60)	2,4-Dinitrophenol	7.19	184	512463	100.08	ppm	#	73
61)	4-Nitrophenol	7.31	109	341809	66.81	ppm		78
62)	Dibenzofuran	7.33	168	2428165	48.59	ppm		94
63)	2,4-Dinitrotoluene	7.31	165	642686	54.52	ppm		57
64)	2,3,4,6-Tetrachlorophenol	7.47	232	430116	49.05	ppm		94
65)	Diethylphthalate	7.58	149	2084870	52.42	ppm		98
66)	Fluorene	7.72	166	2034564	52.91	ppm		99
67)	4-Chlorophenyl-phenylether	7.72	204	860845	50.80	ppm		98
68)	4-Nitroaniline	7.76	138	508813	46.26	ppm		97
70)	4,6-Dinitro-2-methylphenol	7.78	198	358927	56.37	ppm		89
71)	n-Nitrosodiphenylamine	7.86	169	1364658	47.31	ppm		96
72)	1,2-Diphenylhydrazine	7.91	77	2454283	61.56	ppm		94
74)	4-Bromophenyl-phenylether	8.35	248	477603	49.26	ppm		92
75)	Hexachlorobenzene	8.43	284	511122	55.23	ppm		97
76)	Pentachlorophenol	8.74	266	657983	107.91	ppm		100
77)	Phenanthrene	9.05	178	2880138	49.67	ppm		99
78)	Anthracene	9.13	178	2950204	50.82	ppm		99
79)	Carbazole	9.41	167	2668338	49.03	ppm		99
80)	Di-n-butylphthalate	10.10	149	3567197	52.48	ppm		99
81)	Fluoranthene	11.19	202	2914046	50.68	ppm		99

(#) = qualifier out of range (m) = manual integration

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6610\F157059.D Vial: 2
Acq On : 13 May 2016 9:00 am Operator: brittanp
Sample : cc6563-50 Inst : MSF
Misc : op93756,ef6610 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 13 09:22:39 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed May 11 16:35:52 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
82)	Octadecane	8.90	57	1199924	50.86	ppm	91
84)	Pyrene	11.64	202	3065048	46.22	ppm	98
86)	Butylbenzylphthalate	13.23	149	1579967	48.51	ppm	88
87)	Butyl stearate	13.51	56	801183	45.40	ppm	83
88)	Benzo[a]anthracene	14.26	228	2668081	47.12	ppm	99
89)	3,3'-Dichlorobenzidine	14.31	252	981543	49.76	ppm	97
90)	Chrysene	14.34	228	2675485	47.53	ppm	98
91)	bis(2-Ethylhexyl)phthalate	14.64	149	2210291	48.97	ppm	95
93)	Di-n-octylphthalate	16.09	149	3871198	51.16	ppm	99
94)	Benzo[b]fluoranthene	16.58	252	2791696	52.31	ppm	99
95)	Benzo[k]fluoranthene	16.64	252	2579277	49.38	ppm	99
96)	Benzo[a]pyrene	17.21	252	2442109	49.99	ppm	97
97)	Indeno[1,2,3-cd]pyrene	19.28	276	2324974	51.58	ppm	99
98)	Dibenz(a,h)acridine	18.91	279	2068003	53.42	ppm	98
99)	Dibenz[a,h]anthracene	19.33	278	2342443	53.71	ppm	97
100)	7,12-Dimethylbenz(a)anthra	16.59	256	1240855	59.54	ppm	95
101)	Benzo[g,h,i]perylene	19.70	276	2467069	50.64	ppm	94

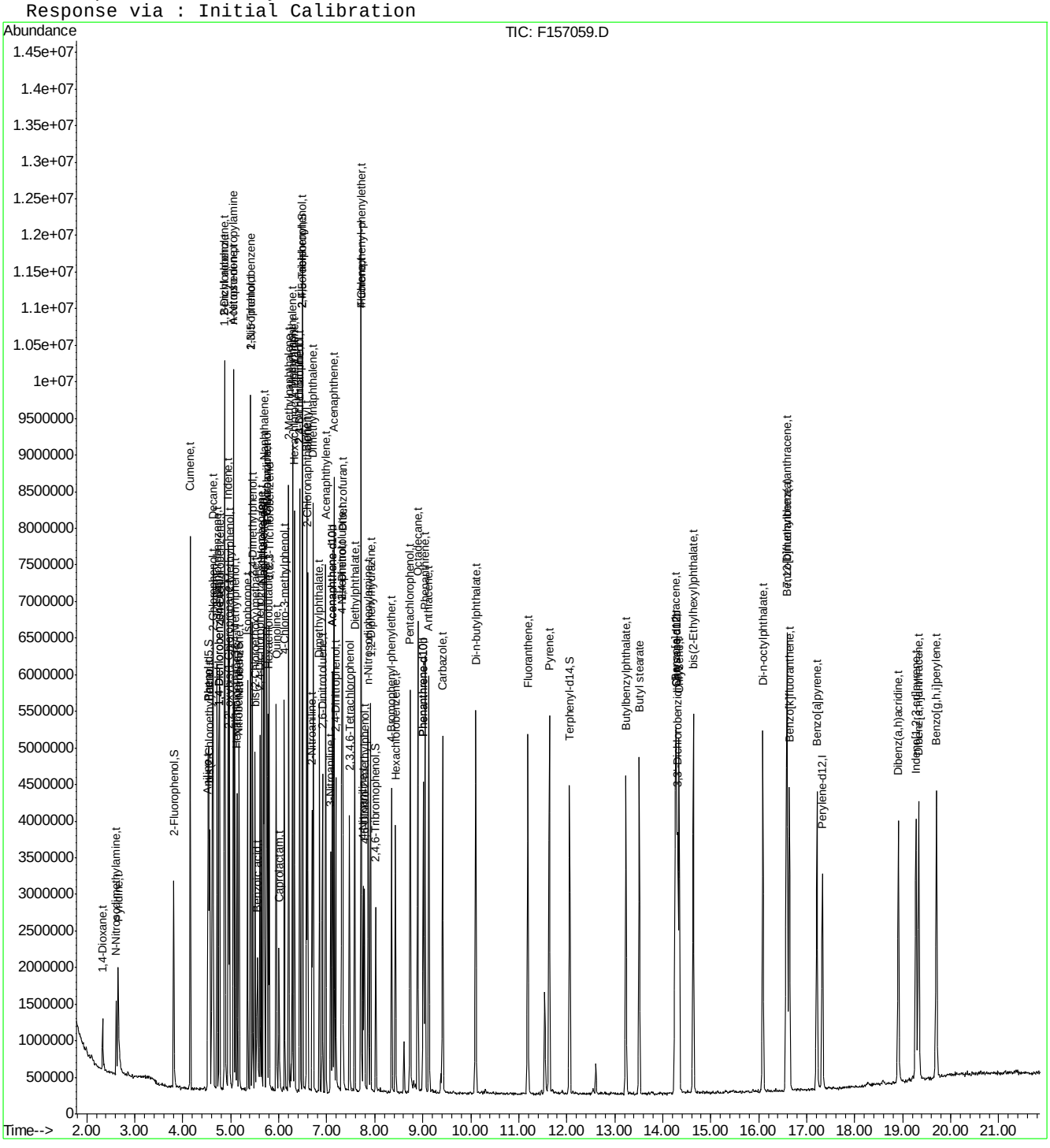
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6610\F157059.D Vial: 2
Acq On : 13 May 2016 9:00 am Operator: brittanp
Sample : cc6563-50 Inst : MSF
Misc : op93756,ef6610 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 13 12:34 2016 Quant Results File: MF6563.RES

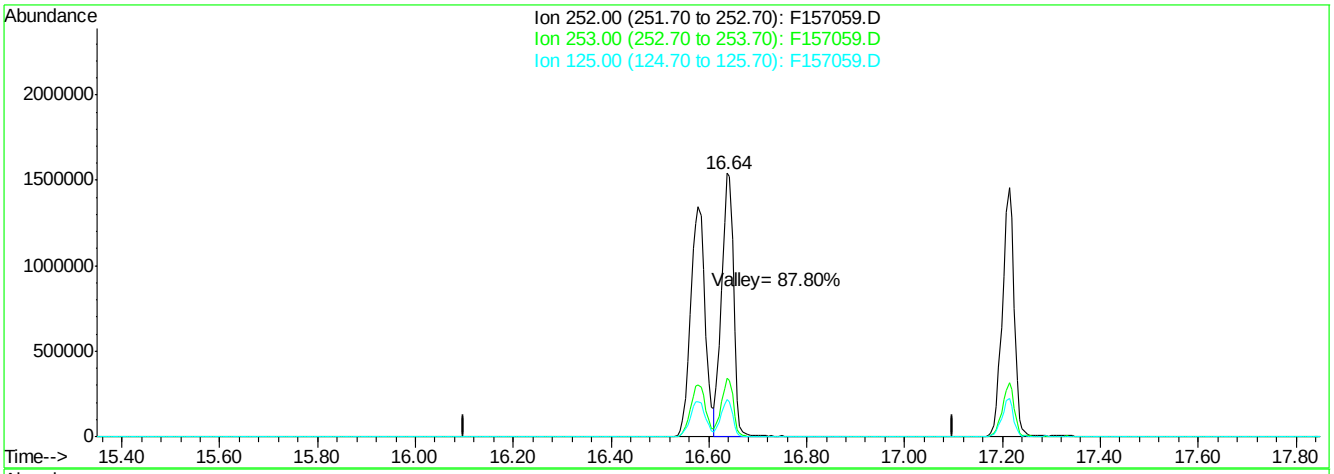
Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed May 11 16:35:52 2016
Response via : Initial Calibration

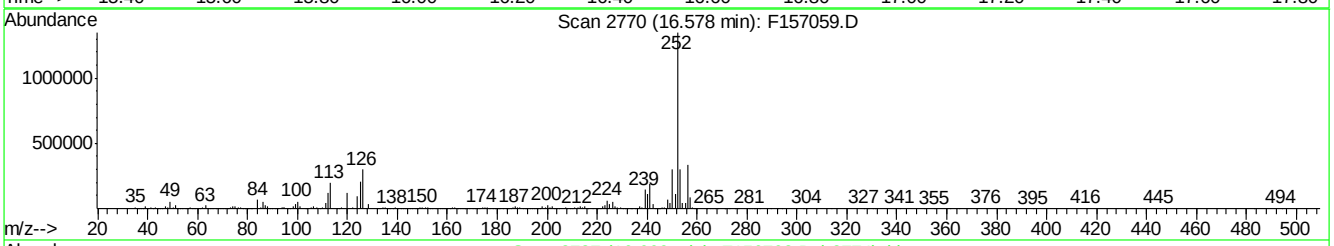


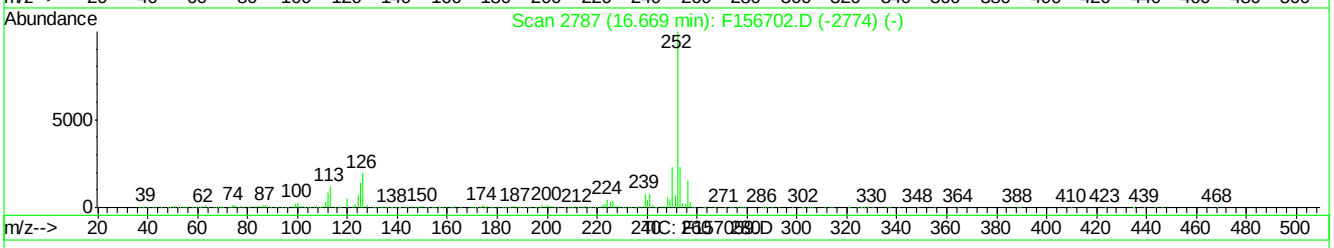
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6610\F157059.D Vial: 2
Acq On : 13 May 2016 9:00 am Operator: brittanp
Sample : cc6563-50 Inst : MSF
Misc : op93756,ef6610 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 13 9:22 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed May 11 16:35:52 2016
Response via : Multiple Level Calibration







(94) Benzo[b]fluoranthene (t)

16.58min 52.31ppm

response 2791696

Ion	Exp%	Act%
252.00	100	100
253.00	22.50	22.09
125.00	14.10	14.92
0.00	0.00	0.00

F157059.D MF6563.M Fri May 13 12:33:32 2016 RT1

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6610\F157060.D Vial: 3
Acq On : 13 May 2016 9:29 am Operator: brittanp
Sample : cc6564-50 Inst : MSF
Misc : op93756,ef6610 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 13 09:51:36 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed May 11 16:35:52 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.76	152	654531	40.00	ppm	-0.05
24) Naphthalene-d8	5.68	136	2810768	40.00	ppm	-0.05
47) Acenaphthene-d10	7.11	164	1679595	40.00	ppm	-0.07
69) Phenanthrene-d10	9.00	188	2665475	40.00	ppm	-0.09
83) Chrysene-d12	14.28	240	2448831	40.00	ppm	-0.10
92) Perylene-d12	17.32	264	2332197	40.00	ppm	-0.04
102) 1,4-Dichlorobenzene-d4b	4.76	152	654531	40.00	ppm	-0.05
104) Naphthalene-d8b	5.68	136	2810768	40.00	ppm	-0.05
106) Acenaphthene-d10b	7.11	164	1679595	40.00	ppm	-0.07
108) Phenanthrene-d10b	9.00	188	2665475	40.00	ppm	-0.09
110) Chrysene-d12b	14.28	240	2448831	40.00	ppm	-0.10

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppm
Spiked Amount 50.000			Recovery = 0.00%		
8) Phenol-d5	0.00	99	0	0.00	ppm
Spiked Amount 50.000			Recovery = 0.00%		
25) Nitrobenzene-d5	0.00	82	0	0.00	ppm
Spiked Amount 50.000			Recovery = 0.00%		
51) 2-Fluorobiphenyl	0.00	172	0	0.00	ppm
Spiked Amount 50.000			Recovery = 0.00%		
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppm
Spiked Amount 50.000			Recovery = 0.00%		
85) Terphenyl-d14	0.00	244	0	0.00	ppm
Spiked Amount 50.000			Recovery = 0.00%		

Target Compounds						Qvalue
103) Benzaldehyde	4.43	105	907122	49.21	ppm	97
105) Hydroquinone	6.01	110	1199133	52.28	ppm	98
107) 1,2,4,5-Tetrachlorobenzene	6.34	216	911888	39.02	ppm	97
109) Atrazine	8.61	200	647209	50.52	ppm	99
111) Benzidine	11.53	184	1487190	34.94	ppm	98

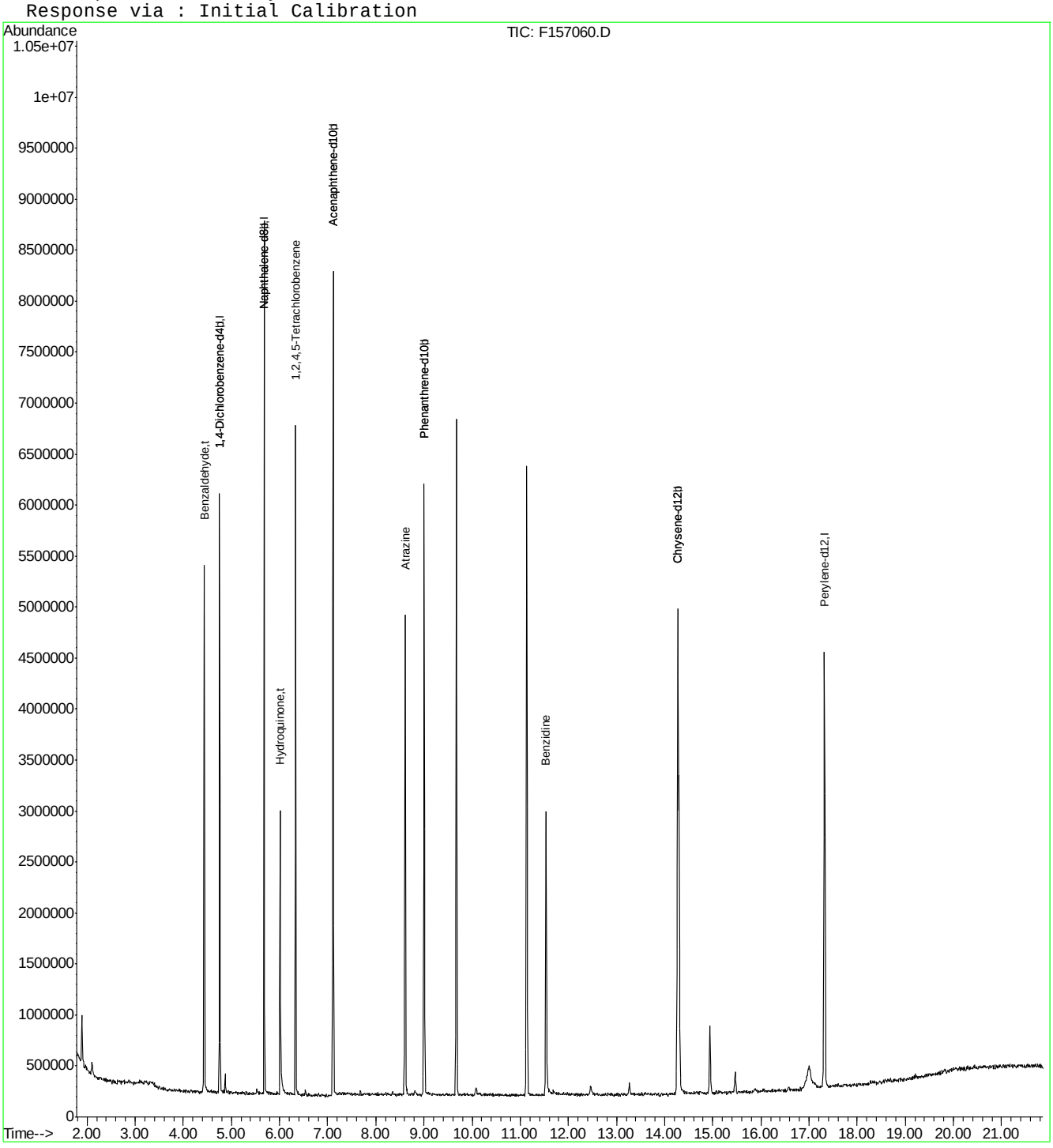
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6610\F157060.D Vial: 3
Acq On : 13 May 2016 9:29 am Operator: brittanp
Sample : cc6564-50 Inst : MSF
Misc : op93756,ef6610 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 13 12:34 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed May 11 16:35:52 2016
Response via : Initial Calibration



F157060.D MF6563.M Fri May 13 12:34:52 2016 RT1 Page 2

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID: E2P2547

Print Analyst Name: ROBERT LA POSTA

Analyst Signature: [signature]

Date: 4/14/16

Columns: RTX-ZB-5MS+30mx0.25mx0.25mm

Method: 8270D/625

Initial Cal. Method: M2P2547

Injection Volume: 1µL

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
MIX1249608	8270	50ppm
SMI1827-107A	BNA	50ppm
CMS7132	DCA 1570	400ppm
167148	DAN (FAST)	—

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: AMG

Date: 4/20/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	E2P5836	DFTBP				1					OK	3:12pm
	5836	ICC2547-50		BNA	W	2					NA	SMI1827-107A + DCA
	5836	ICC2547-50		BNA	W	2					OK	SMI1827-106C
	5836	IC2547-5				3					OK	-106D
	5836	IC2547-80	AMG 4/20/16			4					OK	-106B
	5836	-10				5					OK	-106E
	5836	-100				6					OK	-106A
	5837	-5				7					OK	-106G
	5837	-2				8					OK	-106H
	5837	-1				9					OK	-106I 7:21pm

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

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Form: OR015-07
Rev. Date: 1/19/16

SGS ACCUTEST JC20098

7.7.1

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SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E2P2548 4 SD ② 4/19/16

Print Analyst Name: Sara Davis

Date: 4/19/2016

Analyst Signature: SED

Standard Data

Lot #	Description	Conc.
SV151827-73A	TCL42	100 ppm
-73B	↓	80 ppm
-73C		50 ppm
-73D		25 ppm
-73E		10 ppm
-73G	↓	5 ppm

Standard Data

Lot #	Description	Conc.
SV151829-108	DFTPP	50 ppm
SV151827-73H	TCL42	2 ppm
-73I	↓	1 ppm
CM5732	Internal Std	4000 ppm
159146	DCM (Fisher)	—

Columns: ZB-5ms+ 30m x .25mm x .25um

Method 8270 D/625

Initial Cal. Method M2P2547

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: AMO Date: 4/20/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	2P58373	DFTPP			W	1					OK	H7PM
	58374	TC2548-100		TCL42	W	2					OK	
	58375	-80				3					OK	
	58376	TCL2548-50				4					OK	
	58377	TC2548-25				5					OK	
	58378	-10				6					OK	
	58379	-5				7					OK	
	58380	-2				8					OK	
	58381	-1				9					OK	
	58382	TCV2547-50		Acids		10	AMO 4/20/16				RR OK	SV151827 ~~87~~ 114 SD ② RR for DOO
	58383	-50		Aniline		11					RR OK	~~94~~ 115 4/19/16 RR for DOO
	58384	-50		ABN surr		12					OK	OP151624 20
	58385	-50		BN1		13					OK	SV151827-113
	58386	-50		BN2		14					OK	-95
	58387	TCV2548-50		HQ		15					OK	-98C
	58388	-50		Benzidine 3rd		16					OK	-38F BZD 4/21 am AMO 4/20/16
	58389	aniline-test		extractions test		1					OK	SV151827130 passing

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

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Form: OR015-07
Rev. Date: 1/19/16

SGS ACCUTEST JC20098

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E2P2549

Print Analyst Name: Robert LaPosta

Date: 4/20/16

Analyst Signature: [signature]

Columns: ~~RX-5ILM~~ ZB-MS+ 30mX0.25mm 0.25um

Method 8270D/625

Initial Cal. Method M2P2547

Injection Volume: 1µL

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SMIX 9 OK OF 100		50ppm
CM3732	7570	400ppm
SMIX 11	Dim Cocktail	—

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: AMO

Date: 4/20/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	2P58390	~~IC~~ 70				1					OK	9:38am
	58391	IOW25470		ACID		2					OK	SVM127-129 passes
	58392	70		ANALINES		3					OK	-130 passes 10:16am

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

Form: OR015-07

Rev. Date: 1/19/16

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7.7.3

7

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID: E2P2557

Print Analyst Name: Robert LaPosta

Analyst Signature:

Date: 4/25/16

Columns: Rtx-5Sil (MS) 0.25mm ID 0.25

Method: 8270D625

Initial Cal. Method: M2P0947

Injection Volume: 1µL

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SVIS162401	DFTPP	50ng
CIM5732	Internal Std	4000 ppb
1662418	Dom (Surr)	—

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: 4-25-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	28523	DFTPP				1					not using	reinst c new disc & time for KS.
	58524	DFTPP				1					OK	10:05 AM
	58525	ICV557-50		TCLY2	W	2					OK	~~SVIST~~ ~~SVIT4~~ SV161435-1A
	58526	ICV557-25				3					OK	~~SVIT4~~ SV161435-3D
	58527	-20				4					OK	-3B
	58528	-10				5					OK	-3E
	58529	-100				6					OK	-3A
	58530	-5				7					OK	-3G
	58531	-1				8					OK	-3I
	58532	-2				9					OK	-3H
	58533	ICV557-50		BN1	W	10					RR	SVIS1427-113
	58534	ICV557-25		HQ		11					OK	-9C
	58535	ICV557-50		BZD		12					not using	Benzidine ↑ -3D
	58536	ICV557-50		BN2		13					OK	-9S 4:09p.
												rerun as file method error

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

Form: OR015-07
Rev. Date: 1/19/16

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E2P2559

Print Analyst Name: Ashley N.

Analyst Signature: AM

Date: 4/25/16

Columns: ZB-5MS 30m x 0.25mm x 0.25µm ~~ZB-SIMS 30m x 25mm x 25µm~~

Method 8270D/625

Initial Cal. Method M2P2547 5 AMD 4/26/16 (4)

Injection Volume: 1µL

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV 51879-10	d4pp	50ppm
IM5732	Internal Std	4000ppm
162418	dam (Fisher)	—

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: 4-25-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	d2P58539	d4pp			W1						OK	6:47pm
	S8540	ICV 2557-50		BN1							OK	SV61935-1 6:59pm. benzidine ↑ can not report
												AM

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

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Form: OR015-07
Rev. Date: 1/19/16

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E2P2594

Print Analyst Name: Ashley Mapp

Analyst Signature: AMO

Date: 5/20/16

Columns: 2B5 MS 30m 0.5mm 0.5µm

Method 8270D/625

Initial Cal. Method M2P2557

Injection Volume: 1µL

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV151829-06	DFTPP	50ppm
SV151827-10	BNA	25ppm
SV151827-12	TCL42	25ppm
CU15732	Internal Std.	4000ppm
162641	DCM (Fisher)	—

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: AMO

Date: 5/24/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	2P59358	DFTPP				1					Not run	reinjected chromat. NG.
	59389	D=1/8				1					↓	STP reinject
	59390	D=1/8				1					Not run	STP retune
	59391	D=1/8				1						rows out
	59392	D=1/8				1					↓	↓
	59393	D=1/4				1					not run	STP
	59394	DFTPP				1					not using	robotic rerun.
	59395	DFTPP				1						
	59396	DFTPP				1					↓	
	59397	DFTPP				1					not using	540PM.
	59398	cc2547-25		BNA		2						Areas ↓
	59399	cc2557-25		TCL42		3					not run	retune
	59400	DFTPP				1					OK	6:56 pm
	59401A	cc2547-25		BNA		2					OK	system crash; rerun as "A" file
	59402	cc2557-25		TCL42		3					OK	
	59403	blank 1ppm ver				4					OK	SV151827-62M ✓all
	59404	OP94085-mb1	94085	AB82701	S	5		+	W	W	OK	

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

Form: OR015-07
Rev. Date: 1/19/16

SGS ACCUTEST JC20098

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID: E2P2594

Print Analyst Name: Sean Black

Analyst Signature: Sean T Black

Date: 5/20/16

Columns: ZB-5ms + 30m × 25mm × .25μm

Method: 8270D/625

Initial Cal. Method: M2P2557

Injection Volume: 1μL

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	See page 21	

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: AMO

Date: 5/24/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	SB 5/20/16 E2P59045	OP94085-bx1	94085	ABS270	S	6			V	V	OK	
	59406	JZ20620-1A	94076	ABSW0+	W	7		+	V	V	OK	
	59407	OP94076-msd	↓	ABS270	↓	8			V	V	OK	
	59408	JZ20125-bx	94088	ABTCL20+	S	9		+	V	V	OK	~~RANLY~~ ~~AP5/23/16~~
	59409	JZ20197-1	AMO5/23/16(4)	PAH		10			V	V	OK	RRQ AMO5/23/16(4)
	59410	-2		↓		11			V	V	OK	RRQX
	59411	-3		↓		12			V	V	OK	RRQX
	59412	JZ20431-bx		ABTCL20+		13			V		RR	C/O
	59413	JZ20098-2		ABSL		14			V		RR	C/O
	59414	-3		↓		15			V	V	OK	
	59415	JZ20112-9		ABTCL20+ + 1,2DPH + BNZDNE-NDMA		16		+	V	V	OK	
	59416	JZ20110-6		↓		17		+	V	V	OK	
	59417	JZ20117-8		↓		18		+	V	V	OK	
	59418	JZ20130-1		ABTCL20+		19		+	V	~~V~~ AM	OK	~~AMSUPPL~~ ~~SB 5/23/16~~
	59419	-2		↓		20		+	V	V	OK	
	59420	-3	↓	↓		21		+	V	~~V~~ AM	RX	AMSUPPL
	59421	-4			↓	22		+	V	V	OK	

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

Form: OR015-07
Rev. Date: 1/19/16

SGS ACCUTEST JC20098

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E2P2594

Print Analyst Name: Sean Black

Analyst Signature: Sean T Black

Date: 5/20/16

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	see page 21	

Columns: 7B-5ms + 30m x 25mm x 25µm.

Method 8270D/625

Initial Cal. Method M2P2557

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: AMW

Date: 5/24/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
2A	59422	OP94085 ms	94085	AB8270	S	23			✓	✓	CM	
	59423	msd	↓	↓	↓	24			✓	✓	CM	
	59424	J22050-3		BTCL20+		25		+	✓	✓	CM	
	59425	-4				26		+	✓	✓	CM	RRW X
	59426	-5				27		+	✓	✓	CM	RRF X
	59427	-6				28		+	✓	✓	CM	
	59428	-7				29		+	✓	✓	CM	
	59429	-8	↓	↓	↓	30		+	✓	✓	CM	6:31 Am RRF X

MTX = Matrix . Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

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Form: OR015-07
Rev. Date: 1/19/16

SGS ACCUTEST JC20098

7.7.6

7

ACCUTEST

SEMI-VOLATILE by GCMS ANALYSIS LOG

Batch ID: E3M2855

Date: 4/21/16

Analyst Signature: [illegible]

Columns: Rxi-5SilMS 30m x .25mm x .25um

Method 8270D/625

Initial Cal. Method M8M2855sim

Injection Volume: 1ul

Standard Data		
Lot #	Description	Conc.
		4/14/16

Standard Data		
Lot #	Description	Conc.
SVI51827-68	DFTPP	50ppm
SVI51827-83	SIM Internal	40ppm
159148	Dimethylsulfone	—

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: [illegible]

Date: 4-22-2016

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	3m60750	Condition			W	100					Condition	
	60755				W	100						
	60760	Condition			W	99						
	60761	DFTPP ~~ICC2855-1.0~~ 4/14/16		4/14/16 BFB SIM	W	1					ok	deg ↑ resolution
	60762	DFTPP			W	1					OK	1:31pm
	60763A	ICC2855-1.0			W	2					ok	SVI51827-104C naphthalene-d8
	60764A	IC2855-0.5				3					ok	-104D
	60765A	IC2855-0.2				4					OK	-104E
	60766	IC2855-0.1				5					ok	-104F
	60767	IC2855-0.05				6					OK	-104G
	60768	IC2855-0.02				7					ok	-104H
	60769	IC2855-0.01				8					ok	-104I
	60770	IC2855-5.0				9					ok	-104A
	60771	IC2855-2.5				10					OK	-104B
	60772	ICV2855-1.0		Acid		11					ok	SVI51827-27
	60773	ICV2855-1.0		BN1		12					ok	OP16A12-28
	60774	ICV2855-1.0		BN2		13					ok	SVI51829-85 8:35pm

MTX = 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

SGS ACCUTEST

Batch ID E3M2882

Print Analyst Name: Ashley Moyle

Analyst Signature: AMO.

Date: 5/13/16

Columns: 7135ms (+) 30m x .75mm x .15µL

Method 8270D/605

Initial Cal. Method M3M2855sim

Injection Volume: 1µL

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV15B2908	DFTPP	50 ppm
SV16B359A	Simstd.	1 ppm
SV16B357	Siminternal	400 ppm
162661	DCM (Fisher)	—

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: [illegible]

Date: 5-17-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	3M61294	DFTPP				1					OK	1017AM.
	61295	CC2855-1.0		BASIM	W	2					OK	benzo(k)f
	61296	op93847mhl	938471	B8270	W	3			✓	✓	OK	
	61297	-bsl2				4			✓	✓	OK	
	61298	op93867 bsl	2938671	B8270	W	5			✓	✓	OK	
	61299	-ms				6			✓	✓	OK	
	61300	-msd				7			✓	✓	OK	
	61301	JC19961-1	938471	1,4DIOX	W	8			/	\	OK	run 8270 for 14 dioxx
	61302	-2				9			/	\	OK	↓
	61303	-3				10			/	\	OK	↓
	61304	-4				11			/	\	OK	run by 8270 for 14DIOX
	61305	-5				12			/	\	OK	run by 8270 for 14DIOX ~~run 8270 for 14 dioxx~~
	61306	-6				13			/	\	OK	run 8270 for 14 dioxx
	61307	-7				14			/	\	OK	↓
	61308	-8				15			/	\	OK	↓
	61309	op93847ms		B8270		16			/	\	OK	
	61310	-msd				17			/	\	OK	927PM

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

Form: OR015-07
Rev. Date: 1/19/16

SGS ACCUTEST JC20098

SGS ACCUTEST

SEMI-VOLATILE by GCMS ANALYSIS LOG

Batch ID E3M2882

Print Analyst Name: Ashley Mdyle

Date: 5/13/16

Analyst Signature: AMO

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	see page 65	

Columns: 2135ms ⊕ 30m x 25mm x 5µm

Method 8270D/625

Initial Cal. Method M3M2855sim

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: [illegible]

Date: 5-7-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	3M61311	op93867mbl	938672-1	ABS270	W	18			✓	✓	OK	ran after 3M61300
	61312	JC20098-1		IAD10X+ map		19			✓	✓	OK	
	61313	-4				20			✓	✓	OK	
	61314	-5				21			✓	✓	OK	
	61315	JC19921-10	938802-1	8sim pan	O	22	10		✓	✓	OK	

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

Form: OR015-07
Rev. Date: 1/19/16

SGS ACCUTEST JC20098

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID: E3P2413

Print Analyst Name: ROBERT LA POSTA

Analyst Signature: [signature]

Date: 4/29/16

Columns: ~~DB-5MS~~ 30m x 0.25mm x 0.25µ

Method: 8270D/GCMS

Initial Cal. Method: M3P2413

Injection Volume: µl

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SVIS1524	IC 1625	50ppm
0m72	7310	400ppm
1012409	Dem (Rsl)	

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] Date: 5/2/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	3P53001	IC1625				1					[initials]	4:08Am
	53002	IC2413-50		BNA	W	2					[initials]	SVIS1827-106C
	53003	IC2413-25				3					[initials]	~~106I~~ -106D
	53004	-1				4					[initials]	~~106A~~ -106I
	53005	-100				5					[initials]	-106A
	53006	-2				6					[initials]	-106H
	53007	-80				7					[initials]	-106B
	53008	-5				8					[initials]	-106G
	53009	-10				9					[initials]	12:35Am -106E

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

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Form: OR015-07
Rev. Date: 1/19/16

7.7.9

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SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID: E3P2414

Print Analyst Name: [illegible]

Analyst Signature: [illegible]

Date: 4/29/16

Columns: ZB-5ms+30m×0.25mm×0.25µm

Method: R-700/6-5

Initial Cal. Method: M3P2413

Injection Volume: 1µl

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SVM1827	DE-700	50ppm
CM1832	700	400ppm
[illegible]	[illegible]	[illegible]

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: [illegible] Date: 5-2-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	3P3010	[illegible]				1					[illegible]	1:31pm SCM/2016
	53011	ICCM14-50		TCMX	W	2					[illegible]	~~SV16193~~ SV16193S-3C
	53012	ICCM1425				3					[illegible]	-3D
	53013	-1				4					[illegible]	-3E
	53014	-2				5					[illegible]	-3H
	53015	-5				6					[illegible]	-3G
	53016	-10				7					[illegible]	-3F
	53017	-50				8					[illegible]	-3B
	53018	-100				9					[illegible]	-3A
	53019	ICV2413-50		BN1		10					[illegible]	SV16193S-1
	53020	-50		BN2		11					[illegible]	SV1518Z7-95
	53021	-50		ANILINE		12					[illegible]	~~SV16~~ SV16193S-15 [illegible]
	53022	-50		ALID		13					[illegible]	-16 [illegible]
	53023	-50		SURR		14					[illegible]	OP151024-20 [illegible]
	53024	-50		BTO 3rd		15					[illegible]	SV16193S-14 3 [illegible]
	53025	-50		HQ		16					[illegible]	SV1518Z7-98 3 [illegible]
												[illegible]

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

Form: OR015-07
Rev. Date: 1/19/16

SGS ACCUTEST JC20098

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID: E3P2415

Print Analyst Name: [illegible]

Date: 5/2/16

Analyst Signature: [illegible]

Columns: [illegible]

Method: [illegible]

Initial Cal. Method: E3P2413

Injection Volume: 1µl

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SVI1726A	DFTPP	50ng
[illegible]	4370	40ng/µl
1621489	DCM (BULK)	

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: [illegible]

Date: 5-2-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	E3P5302	DCM		DCM		1					DCM	[illegible]
	J3027	DCM		DCM		[illegible]					DCM	
	J3028	DFTPP				1					not req	ABUD reruns.
	J3029	DFTPP				1					[illegible]	11:46am
	J3030	ICV2413-50		BNA	W	2					[illegible]	~~SVI1726~~ SVI1726 [illegible]
	J3031	ICV2413-50		BNA		3					[illegible]	~~SVI1726~~ SVI1727-95 [illegible]

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

Form: OR015-07
Rev. Date: 1/19/16

SGS ACCUTEST JC20098

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID: E3P2447

Print Analyst Name: ROBERT LA POSTA

Analyst Signature: [signature]

Date: 5/25/16

Columns: ZB-5MS 30m x 0.25mm x 0.25µ

Method: 8270D/625

Initial Cal. Method: M3P2413

Injection Volume: 1µl

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV171827-91	DF 168	50 ppm
SV161875-146	BNA	50 ppm
-146	TCL2	50 ppm
CM5772	2510	4 mg/gm
162641	DCM (R3L65)	—

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: AMO.

Date: 5/26/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	53776	DF 168				1					not injing	68P19778-reinject.
	53777	DF 168				1					↓	PCP tailing & flow to 0.2 mL/min
	53778	DF 168				1					not injing	PCP tailing & reinstall
	53779	DF 168				1					↓	66P1279 reinject
	53780	DF 168				1					not injing	68P PCP tailing & reset
	53781	DF 168				1					↓	Chromat. NG. reinj:
	53782	DF 168				1					not injing	chromat NG, 1279
	53783	DF 168				1					OK	11:29AM
	53784	CCM13-10		BNA	W	2					OK	
	53785	CCM14-13		TCL2	W	3					OK	
	53786	BNA-2mg-µg		BNA	W	4					OK	SV171827-62M (1pm)
	53787	08P16049-MB	94mg	ABB270+	W	5		+	V	V	OK	
	53788	SC20147-5		ABCL+		6		+	V	V	OK	
	53789	+5				7	5	+	V	V	OK	
	53790	08P94085-MB1	94mg	ABBL+0+	S	8		+	V	V	OK	run before 53788
	53791	JC20088-2		ABSL		9			V	V	OK	
	53792	-3				10			V	V	OK	

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

Form: OR015-07
Rev. Date: 1/19/16

SGS ACCUTEST JC20098

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID: E3P2447

Print Analyst Name: ROBERT LABSTA

Analyst Signature: [signature]

Date: 5/25/16

Columns: [illegible]

Method: 8270D/625

Initial Cal. Method: [illegible]

Injection Volume: µL

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	Sel Pg 20	

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] Date: 5/26/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	E3P3713	JC20143-1	94042	8270D	W	11	50		✓	✓	[illegible]	
	53744	JC20145-3		BS/MDS/X		12			✓	✓	[illegible]	
	53745	-5				13			✓	✓	[illegible]	
	53746	-6				14			✓	✓	[illegible]	[illegible]
	53747	JC20137-20	94042	RFAA		15			✓	✓	[illegible]	6:35 pm

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

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Form: OR015-07
Rev. Date: 1/19/16

7.7.12

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SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E4M 2930

Print Analyst Name: Linsey K

Analyst Signature: LK

Date: 5/24/16

Columns: 8B-5MS 30m x .25mm x .25um

Method 8270D/625

Initial Cal. Method M4M2930sim

Injection Volume: 1ul

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV158271	DFTPP	50ppm
SV161935-29	SIM Internal	40ppm
1602641	DCM-Ethers	—

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: AMO

Date: 5/24/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	4M65478	DFTPP			W	1					OK	10:16AM
	65479	ICC2930-1.0				2					OK	SV161935-49C
	65480	ICC2930-0.5				3					OK	D
	65481	-0.2				4					OK	E
	65482	-0.1				5					OK	F
	65483	-0.05				6					OK	G
	65484	-0.02				7					OK	H
	65485	-0.01				8					OK	I
	65486	-5.0				9					OK	A
	65487	-2.5				10					OK	B
	65488	ICV2930-1.0		BSIM 2nd		11					OK	OR151624-73 3.32ppm

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

Form: OR015-07
Rev. Date: 1/19/16

SGS ACCUTEST JC20098

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID: E4M2931

Print Analyst Name: LIRSEYK

Analyst Signature: JK

Date: 5/24/16

Columns: ZB-5MS 30m x .25mm x .25um

Method: 8270D/625

Initial Cal. Method: M4M2930.m

Injection Volume: 1µl

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV151827-91	DFTPP	50ppm
SV160185-49	SIM std.	1.0ppm
-29	SIM INTERNAL	40ppm
1162641	DMC Fisher	—

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: [illegible]

Date: 5-25-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	4m65489	DFTPP			W	1					OK	4:07pm
	65490	CC29130-1.0		B8000.m	W	2					OK	
	65491	OP94049-MB1	94049-1	B8270		3			/	↑	OK	m for sum.
	65492	JC20147-4		1,4dioxane		4			/	↑	OK	nnla/8270!
	65493	-10				5			/	/	OK	nnla/8270!
	65494	-11				6			/	/	OK	
	65495	-12				7			/	/	OK	
	65496	-14				8			/	/	OK	
	65497	-15				9			/	/	OK	nnla/8270!
	65498	-16				10			/	↑	OK	
	65499	OP94049-MS				11			/	↑	OK	
	65500	-MSD				12			/	/	OK	
	65501	OP94085-MS	94085-1	B8270	S	13			/	/	OK	
	65502	-BS12				14			/	/	OK	
	65503	-MS				15			/	/	OK	
	65504	-MSD				16			/	/	OK	
	65505	JC20098-2		NAP+1,4dox		17			/	/	OK	

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

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Form: OR015-07
Rev. Date: 1/19/16

7.7.14

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SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID: E4M2931

Print Analyst Name: Linsey K

Analyst Signature: [signature]

Date: 5/24/16

Columns: 26-5ms @ 30m x 25mm x 25um

Method: 8270D/625

Initial Cal. Method: M4M2930.inu

Injection Volume: 1 ul

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	See Pg 41	

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] Date: 5-25-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	4M05506	JC20098-3	94085-1	naph+1,4dioxane	W	18			/	/	OK	
	05507	OP94591-MB1	94591-1	B8270	W	19			/	↑	OK	m for surr
	05508	-LCS12				20			/	↑	OK	m for surr
	05509	-MS				21			/	↑	OK	
	05510	-MSD				22			/	↑	OK	
	05511	JC20202-1		1,4dioxane		23			/	↑	OK	m for surr
	05512	-2				24			/	/	OK	
	05513	-3				25			/	↑	OK	3:56 AM

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

Form: OR015-07
Rev. Date: 1/19/16

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E6P1209

Print Analyst Name: Arelle Corazza

Analyst Signature:

Date: 5/13/16

Columns: Zb35ms+30m x 25mm x .25um

Method 8270D/625

Initial Cal. Method M6P1209

Injection Volume: 1 ul

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
5182918	DFTPP	25ppm
CM5732	Int. Std	400ppm
627661	DCM (F-Std)	→

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: AMM

Date: 5/16/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	625920	DFTPP			W	1					NG	Rept reinj 24
	25921	DFTPP			W	1					NG	Retune BFB 24 hrs Rept
	25922	DFTPP			W	1					NG	Rept 4hrs 2 hrs Reinstall
	25923	DFTPP			W	1					OK	912AM
	25924	IC1209-2		BNA	W	2					OK	SV151827106H
	25925	-1				3					OK	-106I
	25926	-100				4					OK	-106A
	25927	-80				5					OK	-106B
	25928	IC1209-50				6					OK	-106G
	25929	IC1209-25				7					OK	-107F
	25930	10				8					OK	-106E
	25931	5				9					OK	-106G

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

Form: OR015-07
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SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID: E6P1210

Print Analyst Name: Arthur Cocozza

Analyst Signature:

Date: 5/13/16

Columns: ZB-5ms+ 30mx0.25mmx0.25um

Method: 8270D/625

Initial Cal. Method: M6P1209

Injection Volume: 1ul

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
1517410	DFTPP	50ppm
CW5732	Int-Std	40000ppm
1129661	M(5-Str)	—

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: AMG

Date: 5/16/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	6P25932	DFTPP				1					not using	2751 reinjected
	25933	DFTPP				1						2754 reinjected
	25934	DFTPP				1						
	25935	DFTPP				1					not using	ion 30 out of range
	25936	DFTPP				1						
	25937	DFTPP				1					OK	225PM
	25938	IC1210-100		TCL42	W	2					OK	SU1161935 31A
	25939	-80				3					OK	B
	25940	IC1210-50				4					OK	C
	25941	IC1210-25				5					OK	D
	25942	IC1210-10				6					OK	E
	25943	-5				7					OK	G
	25944	-2				8					OK	H
	25945	-1				9					OK	I
	25946	IC1210-50		AGN Surr		10					RR	OP16171292
	25947	50		Acids		11					RR	SU161935-21
	25948	50		Anilines		12					RR	-20

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

Form: OR015-07
Rev. Date: 1/19/16

SGS ACCUTEST JC20098

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID: E6P1210

Print Analyst Name: Arelle Colozza

Analyst Signature:

Date: 5/13/16

Columns: 25m x 25m

Method 8270D/625

Initial Cal. Method MEP1209

Injection Volume: 1 ul

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	Cocyl	

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: Anne

Date: 5/16/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	25949	FW120-50		BN1		13					OK	5/16/1935 17
	25950	50		BN2		14					OK	-10
	25951	50		Benzidine		15					OK	5/15/1827 383
	25952	50		HQ 2nd AE		16					OK	-98c

MTX = Matrix . Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

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7.7.16

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SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID: E6P1211

Print Analyst Name: Adelle Cocozza

Analyst Signature:

Date: 5/16/16

Columns: 35m x .18mm x .25um

Method: 8270D/625

Initial Cal. Method: MCP1209

Injection Volume: 1ul

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV15782907	DFTPP	50ng/ul
CW5172	Int Std	4000ug/ml
162561	Surr Std	

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: AMLO

Date: 5/16/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	6P25953	DFTPP			W	1					OK	50ng/ul
	25954	CV1209-50		Acids	W	2					OK	SV15782787
	25955	-50		Anilines	W	3					OK	SV18193577
	25956	-50		Abn Surr	W	4					OK	QP16171233 1000ug/ml
	25957	-50		BNA	W	5					not analyzed	

MTX = Matrix . Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

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Rev. Date: 1/19/16

7.7.17

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SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E6P1212

Print Analyst Name: Arelle Cecan

Analyst Signature:

Date: 5/16/16

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV 61829102	DFTPP	50ng/µl
CM5779	Int Std	4000ng/µl
16266	DCM (Esho)	—

Columns: ZB-5MS+ 30m x 25mm x .25µm

Method 8270D/625

Initial Cal. Method MGP1209

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: AMC

Date: 5/16/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	6P25958	DFTPP			W	1					OK	1100 Am
	25960 ~~59~~	ICV1209-50		Aqw Surr	W	2					OK	QP1671292
	25960	-50		BNA	W	3					OK	1140 Am SV61827-98

MTX = Matrix . Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

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SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID: E6P1227

Print Analyst Name: Arelle Cocozza

Analyst Signature:

Date: 5/25/16

Columns: TG5SMS+30m x 25m x .25um

Method: 8270D/625

Initial Cal. Method: M6P1209

Injection Volume: 1 ul

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
IX2791	DFTPP	50ppm
1518907F	BNA	75ppm
161359322	TCL42	50
CM5732	ISTD	40ppm
162641	MCL Surr	

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 5/25/16

Date: 5-25-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	6P26343	DFTPP			W	1					NG	Baseline rise
	26344	DFTPP			W	1					NG	instrument shutdown
	26345	DFTPP			W	1					OK	48 hr 5/25/16 9:10AM
	26346	CC1209-25		BNA	W	2					OK	48 hr 10% 93%
	26347	CC1210-25		TCL42	W	3					OK	Benzidine ↑
	26348	BNA VCHF 1ppm			W	4					OK	SV151827621
	26349	op94085-MB1	94085	AOSL270+	S	5		+	/	/	OK	
	26350	op94190-MB1	94190	AOSL270+	S	6		+	/	/	OK	
	26351	BS1				7			/	/	OK	
	26352	JC20431-1	94085	AOSL270+	S	8		+	/	/	OK	
	26353	JC20772-1	94206	AOSL11 ~~AOPPL+~~	S	9	5		/	~~SU~~ /	OK	Many surr ↓ ~~Sent to QC~~ AC 5/26/16 Pay 1's Comments
	26354	JC20817-1		AOPPL+		10	5	+	/	/	OK	↓
	26355	JC20675-1	94147	AOSL1	S	11	20		/	~~SU~~ /	OK	2 Hydroxybiphenyl ↑ Run 1:2 DFs DF=5
	26356	JC20772-1	94206	AOSL11	S	12	20		/	↓	OK	Many surr ↓ Sent to QC
	26357	JC20585-13	94190	AOPPL+	S	13		+	/	/	OK	
	26358	14				14		+	/	/	OK	
	26359	JC20817-1	94206	AOPPL+	S	15	~~10~~ 20		/	~~SU~~ /	OK	Surr. OK ~~[illegible]~~ AC 5/26/16

AC 5/26/16

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

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Rev. Date: 1/19/16

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID: E6P1227

Print Analyst Name: Arelle Cocoran

Analyst Signature:

Date: 5/24/16 5 5/25/16

Columns: 7035 MSF 30m x 25 m x 25m

Method: 8270D/16-f

Initial Cal. Method: M6P1209

Injection Volume:

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	see p175	

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: Al Nico

Date: 5/26/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	6P26360	JC20149-10	93994	BTEX20H	W	16	60		/	/	OK	
	26361	11				17	60		/	/	OK	
	26362	JC20675-1	94147	AGSL1	S	18	40		/	3/4	OK	rerun Arte 6P26359
	26363	6P94206-MS	94206	AB8270	S	19			/	/	OK	rerun Arte 6P26363
	26364	MSD				20			All ↓		NG	reinject
	26365	JC20801-1		BPH4		21			/	/	OK	
R	26366	JC20817-1				22	20				not used	not needed RESTOLE rerun Arte 6P26361
	26367	JC20617-1	94190	AB8270	S	23			/	/	OK	
	26368	6P94190-MS		AB8270		24			/	/	OK	
	26369	MSD				25			/	/	OK	
	26370	JC20885-1		AB8270		26			/	/	OK	
	26371	2				27			/	/	OK	RR 1:10 8:18 PM
	26372	DCM				28						cleanup - dirty samples

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

Form: OR015-07
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SGS ACCUTEST JC20098

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID EF6563

Print Analyst Name: Linsey

Analyst Signature: [illegible]

Date: 4/4/16

Columns: ZB-5ms Plus ~~Rtx-5Sil MS~~ 30m x .25mm x .25um 7/14/16

Method 8270D/625

Initial Cal. Method MF6563

Injection Volume: 1ul

Standard Data

Lot #	Description	Conc.
SV151827-60A	BNA	100 ppm
-60B	↓	80
-60C		50
-60D		25
-60E		10
-60F	↓	5 ↓

Standard Data

Lot #	Description	Conc.
SV151629-103	DFTPP	50 ppm
SV151827-60H	BNA	2 ppm
-60I	↓	1 ↓
CMS832	Internal Std.	40ppm
K2107	DCM-Fisher's	—

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: [illegible]

Date: 4/6/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	F150036	Condition			W	100					Condition	
	150045	Condition			W	100					↓	
	156046	condition				99						
	↓ 156048	↓				↓					Not run	sequence changed
	156049	DFTPP			W	1					NG	51↓, reinject
	156050	DFTPP			W	1					OK	
	156051	IC6563-100		BNA		2					OK	
	156052	-80				3					OK	
	156053	IC6563-50				4					OK	
	156054	IC6563-25				5					OK	
	156055	-10				6					OK	
	156056	-5				7					OK	
	156057	-2				8					OK	
	156058	-1				9					OK	

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

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Form: OR015-07
Rev. Date: 1/19/16

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SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID EF6564

Print Analyst Name: Sara Davis

Analyst Signature: SED

Date: 4/4/2016

Columns: ZB-5msplus 30m x .25mm x .25um

Method 8270 D/625

Initial Cal. Method MF6563

Injection Volume: 1 ul

Standard Data

Lot #	Description	Conc.
SV151827-73A	TCL42	100 ppm
-73B	↓	80 ↓
-73C		50
-73D		25
-73E		10
-73G	↓	5 ↓

Standard Data

Lot #	Description	Conc.
SV151829-103	DFTPP	50 ppm
SV151827-73 H	TCL42	2 ppm
-73 I	↓	1 ↓
CM5732	Internal Std	4000 ppm
162107	Dcm (Fisher)	—

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: AMO

Date: 4/6/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	F156059	DFTPP			W	1					OK	11:06 pm
	156060	TCL6564-100		TCL42	W	2					OK	
	156061	-80				3					OK	
	156062	TCL6564-50				4					OK	
	156063	TCL6564-25				5					OK	
	156064	-10				6					OK	
	156065	-5				7					OK	
	156066	-2				8					OK	
	156067	-1				9					OK	
	156068	TCV6563-50		Acids		10					rr	SV151827-79
	156069	-50		Aniline		11					OK	-78
	156070	-50		ABN sicc		12					OK	OP161712 33
	156071	-50		BN1		13					OK	SV151827-88
	156072	-50		BN2		14					OK	-80
	156073	TCV6564-50		Benzidine 3rd		15					OK	-38F
	~~156073~~											
	SD 2 4/4/16											

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

Form: OR015-07
Rev. Date: 1/19/16

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SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID EF6567

Print Analyst Name: Sara Davis

Date: 4/5/2016

Analyst Signature: SED

Standard Data

Lot #	Description	Conc.
SV151827-96A	AP9SL	100 ppm
-96B	↓	80 ↓
-96C		50
-96D		25
-96E		10
-96G	↓	5 ↓

Standard Data

Lot #	Description	Conc.
SV151829-108	DFTPP	50 ppm
SV151827-96H	AP9SL	2 ppm
-96I	↓	1 ↓
CM-5732	Internal Std	4000 ppm
162107	DCM (Fisher)	—

Columns: ZB-5ms Plus 30m x .25mm x .25

Method 8270D/625

Initial Cal. Method MF6563

Injection Volume: µL

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to compl with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] Date: 4-5-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	F156088	DFTPP				1					ok	6.00pm
	156089	icc6567-100		AP9SL		2					ok	
	156090	-80				3					ok	
	156091	icc6567-50				4					ok	
	156092	icc6567-25				5					ok	
	156093	-10				6					ok	
	156094	-5				7					ok	
	156095	-2				8					ok	
	156096	-1				9					ok	
	156097	icv6564-50		HQ		10					ok	SV151827-98D
	156098	icv6567-50		m-toluidine		11					ok	OP151624123
	156099	-50		Catechol		12					ok	OP151624 8
	156100	-50		12NB		13					ok	SV151827-99
	156101	-50		2+3CA		14					ok	SV151827-100
	156102	icv6566-50		AP9 2nd		15					ok	OP161712-36
	156103	-50		Methapyrilene 3rd		16					not used	SV151829-128A not needed
	156104	-50		Hexachlorophene 2nd		17					ok	-56

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

Form: OR015-07
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SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID EF6567

Print Analyst Name: Sara Davis

Date: 4/5/2016

Analyst Signature: SED

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	see page 109	

Columns: ZB-5ms plus 30m x .25mm x .25um

Method 8270 D/625

Initial Cal. Method MF6563

Injection Volume: 1 ul

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: [illegible] Date: 4-5-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	F156105	ICV6566-50		APA Megamix 2nd		18					[illegible]	SV151829-68 [illegible]
	156106	-50		APA 3rd		19					[illegible]	-122A

MTX = Matrix . Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

Form: OR015-07
Rev. Date: 1/19/16

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7.7.22

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SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID EF6610

Print Analyst Name: Brittany Perry

Date: 05/13/2016

Analyst Signature: B.P.

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV151829-91	DFTPP	50ppm
SV161935-19B	BNA	25 ppm
S 1106C	TCL42	25 1
CM5732	Internal Std.	4000ppm
1626661	DCM (Fisher)	—

Columns: ZB-5MS ⊕ 30m x .25mm x .25µm

Method 8270D/625

Initial Cal. Method ~~MF~~ BP 5/13/16 ⊕ MF6563

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: EM

Date: 5-20-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
												BP 5/13/16 ⊕
	F157056	DFTPP			W	1					NOT using ~~OK~~	7:53am
	157057	CC6563-25			W	2					NOT using	Areas ↓ ↑EM
	157058	DFTPP			W	1					OK	8:43 am
	157059	CC6563-50		BNA	W	2					OK	# 18, 22, 54, 61, 72, 73 ↑
	157060	CC6564-50		TCL42	W	3					OK	1,2,4,5 Tetrachlbd; Bzd. ↓
	157061	CC6566-50		APQ	W	4					NOT using	SV151827-85A
	157062	CC6567-50		APQSL		5					NOT using	SV151827-96C # 175T
	157063	TCL42-verf. 1ppm				6					OK	-75D
	157064	OP93867-MB1	93867-1	AB8270	W	7					OK	
	157065	-BS1				8					OK	
	157066	JC20098-1		ABSL + Nap + 2mnap		9			✓	✓	OK	
	157067	-4				10			✓	✓	OK	
	157068	-5				11			✓	✓	OK	RR 1:10
	157069	OP93867-MS				12					OK	
	157070	-MSD				13					OK	
	157071	JC19805-6	93801-1	Bmnap ~~Bnat~~ BP 5/13/16 ⊕	W	14					OK	
	157072	-5				15					OK	

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

Form: OR015-07
Rev. Date: 1/19/16

SGS ACCUTEST JC20098

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID EF6610

Print Analyst Name: Brittany Piercy

Date: 05/13/2016

Analyst Signature: B.P.

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	See page 71	

Columns: ZB-5MS ⊕ .30m x .25mm x .25µm

Method 8270D / 625

Initial Cal. Method MF65563

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: dm

Date: 5-20-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	F157073	JC19805-7	93801-1	Bmnap	W	16			/	/	OK	
	157074	-9				17			/	/	OK	
	157075	-10				18			/	/	OK	
	157076	-11				19			/	/	OK	
R	157077	JC19639-2	93668-1	ABSL2	W	20			3S6 ↓		NOT using	Ran at end of seq.
R	157078	OP93668-MS		AB625		21			6 ↓		NOT using	↓
R	157079	OP93756-MSD	93756-1	AB8270	W	22			2 ↓		not using	Reanalyze Internal
R	157080	JC19681-2		ABNJTCL20+		23			6 ↓	/	OK	
R	157081	JC20098-5	93671	ABSLt mnaptzmnap	W	24	10		/	/	OK	ranafter F157070
	157082	JC19722	93544-1	ABCUI +PVRianiline	W	25			J	J	OK	ranafter F157072
	157083	op93544-mbl		AB8270		26						↓
												BP 05/14/2016

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

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Form: OR015-07
Rev. Date: 1/19/16

7.7.23 7

6-1737

LOGBOOK ID:

ABN Aqueous Extraction Logbook

Date Started: 05-12-16 Time Started: 6:00 pm
Date Finished: 05-12-16 Time Finished: 11:00 pm

Extract Method (CHECK OFF "√" /DO NOT CIRCLE):
Separatory Funnel: SW846 3510C/CLP/other ✓ 3510C SIM
Continuous Liquid Liquid: SW846 3520C/CLP/other

BATCH # MS 93867 RACK# Sean

Extracted by: ADC/KS
Concentrated by: KS, RC
Vialed by: KS
Relinquished by:
Accepted by:
Supervisor Review: DA 5/13/16

Equipment/ Range	ID	Observed Temp (°C)	Correction Factor (°C)	Corrected Temp (°C)	Pressure/ Flowrate
Buchi (65-71°C)					
Buchi Chiller					
Waterbath (70-80°C)	6/7	74/73.3	0.5/0.1	75/73	N/A
Waterbath Chiller (GPM)	F-2	1	N/A	N/A	2
NEVAP (32-38°C; LPM)					

SURROGATE	LOT #	CONC (ppm)	AMT (mL)
ABN	161712100	50	1

WITNESS SIGN: SD SPIKE SIGN: KS

MATRIX SPIKE	LOT #	CONC (ppm)	AMT (mL)
Acid	SV161925-21	50	Acid: 1
Acid (for SIM)			A(SIM): .2
Base #1	SV161935-75	50	1
Base #2	SV161935-72	50	1
Anilines	SV161935-U	50	1
BSIM	OP161712-96	1	1

WITNESS SIGN: SD SPIKE SIGN: KS

SOLVENT	LOT #	BRAND	AMT (mL)
METH CHLOR	162661	Fisher	6X60

REAGENT	LOT #	BRAND
NaOH	153903	Fisher
H2SO4	2661910	Ricca
Sodium Sulfate	157477	Fisher
Glass Wool	07205-22	Lab
Filter Paper		
pH strips		

Special Client Spike Instructions

QC ID# for Special Spike	Amt to Spike	Spike ID	Lot #	Conc.	Amt. Spiked

WITNESS SIGN: SPIKE SIGN:
Manager/Supervisor/Team Lead Approval:

SPECIAL PROCESSING INSTRUCTIONS
Rx Reason:
Spiking:
Weights/Volumes:
Required MS/MSD:
Final Volume:
Other:

#	Sample #	Analysis Type	Sample Bottle #	Sample Description	Sample Volume (mL)	pH Adjust(mL) H2SO4	pH Adjust(mL) NaOH	Final Extract Color	Final Extract Vol(mL)	Misc. GPC Cleanup	Misc. Comments
	MB1	ABN		DIH2O	1000	1	5	clear	1		
	BS1			DIH2O	1000	1	5	Yellow	1		
	JC20098-1 MS		2	yellow	905	1	5	Yellow	1		
	MSD		2	yellow	905	1	5	Yellow	1		
	BS	12 SIM		DIH2O	1000	1	5	Yellow	1		
	JC20098-4 MS		1	yellow	975	1	5	Yellow	1		
	MSD		1	yellow	975	1	5	Yellow	1		
	JC20098-1	ABN	1	yellow	800	1	5	clear	1		
2	-4		2	yellow	810	1	5	Yellow	1		
3	-5		1	brown	800	1	5	Yellow	1		
4	JC20049-9		4	clear	950		5	clear	1		
5	~~JC19207-1A~~										
6	~~JC19210-1A~~										
7	~~JC19211-1A~~										
8	~~JC19212-1A~~										
9	JC20058-1		3	clear	1000	1	5	clear	1		
10	-2		4	clear	980	1	5	clear	1		
11	-3		1	clear	1000	1	5	clear	1		
12	-4		4	clear	990	1	5	clear	1		
13	-5		2	clear	1000	1	5	clear	1		
14	-6		1	clear	1000	1	5	clear	1		
15	-7		1	l. orange	1000	1	5	clear	1		
16	-8		1	clear	960	1	5	clear	1		
17	-10		1	l. orange	990	1	5	clear	1		
18	-11		4	clear	970	1	5	clear	1		
19	-12		2	clear	990	1	5	clear	1		
20	-13		2	clear	970	1	5	clear	1		

1d TAT
3d TAT
cl 5/12/16

Comments: okay to split MS/MSD KSIM MS/MSD, not enough bottles
Line 5 through 8: Written incorrectly
Line 5: JC20058-14 | 3 | yellow | 950 | 1 | 5 | clear | 1
Line 6: JC20058-15 | 4 | clear | 950 | 1 | 5 | clear | 1

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SGS ACCUTEST INC.
Form: OP022A-08
Rev Date: 1/13/16

6-1737

LOGBOOK ID:

ABN Aqueous Extraction Logbook

Date Started: 05-12-16 Time Started: 6:00 pm
Date Finished: 05-12-16 Time Finished: 11:00 pm

Extract Method (CHECK OFF "√" /DO NOT CIRCLE):
Separatory Funnel: SW846 3510C/CLP/other ✓ 3510C SIM
Continuous Liquid Liquid: SW846 3520C/CLP/other

BATCH # MS 93867 RACK# Sean

Extracted by: ADC/KS
Concentrated by: KS, RC
Vialed by: KS
Relinquished by:
Accepted by:
Supervisor Review: DA 5/13/16

Equipment/ Range	ID	Observed Temp (°C)	Correction Factor (°C)	Corrected Temp (°C)	Pressure/ Flowrate
Buchi (65-71°C)					
Buchi Chiller					
Waterbath (70-80°C)	6/7	74/73.3	0.5/0.1	75/73	N/A
Waterbath Chiller (GPM)	F-2	1	N/A	N/A	2
NEVAP (32-38°C; LPM)					

SURROGATE	LOT #	CONC (ppm)	AMT (mL)
ABN	161712100	50	1

WITNESS SIGN: SD SPIKE SIGN: KS

MATRIX SPIKE	LOT #	CONC (ppm)	AMT (mL)
Acid	SV161925-21	50	Acid: 1
Acid (for SIM)			A(SIM): 2
Base #1	SV161935-75	50	1
Base #2	SV161935-72	50	1
Anilines	SV161935-U	50	1
BSIM	OP161712-86	1	1

WITNESS SIGN: SD SPIKE SIGN: KS

SOLVENT	LOT #	BRAND	AMT (mL)
METH CHLOR	162661	Fisher	6X60

REAGENT	LOT #	BRAND
NaOH	153903	Fisher
H2SO4	2661910	Ricca
Sodium Sulfate	157477	Fisher
Glass Wool	07205-22	Lab
Filter Paper		
pH strips		

Special Client Spike Instructions

QC ID# for Special Spike	Amt to Spike	Spike ID	Lot #	Conc.	Amt. Spiked

WITNESS SIGN: SPIKE SIGN:
Manager/Supervisor/Team Lead Approval:

SPECIAL PROCESSING INSTRUCTIONS
Rx Reason:
Spiking:
Weights/Volumes:
Required MS/MSD:
Final Volume:
Other:

#	Sample #	Analysis Type	Sample Bottle #	Sample Description	Sample Volume (mL)	pH Adjust(mL) H2SO4	pH Adjust(mL) NaOH	Final Extract Color	Final Extract Vol(mL)	Misc. GPC Cleanup	Misc. Comments
	MB1	ABN		DIH2O	1000	1	5	clear	1		
	BS1			DIH2O	1000	1	5	Yellow	1		
	JC20098-1 MS		2	yellow	905	1	5	Yellow	1		
	MSD		2	yellow	905	1	5	Yellow	1		
	BS	12 SIM		DIH2O	1000	1	5	Yellow	1		
	JC20098-4 MS		1	yellow	975	1	5	Yellow	1		
	MSD		1	yellow	975	1	5	Yellow	1		
1	JC20098-1	ABN	1	yellow	800	1	5	clear	1		
2	-4		2	yellow	810	1	5	Yellow	1		
3	-5		1	brown	800	1	5	Yellow	1		
4	JC20049-9		4	clear	950	1	5	clear	1		
5	~~JC19207-1A~~										
6	~~JC19210-1A~~										
7	~~JC19211-1A~~										
8	~~JC19212-1A~~										
9	JC20058-1		3	clear	1000	1	5	clear	1		
10	-2		4	clear	980	1	5	clear	1		
11	-3		1	clear	1000	1	5	clear	1		
12	-4		4	clear	990	1	5	clear	1		
13	-5		2	clear	1000	1	5	clear	1		
14	-6		1	clear	1000	1	5	clear	1		
15	-7		1	l. orange	1000	1	5	clear	1		
16	-8		1	clear	960	1	5	clear	1		
17	-10		1	l. orange	990	1	5	clear	1		
18	-11		4	clear	970	1	5	clear	1		
19	-12		2	clear	990	1	5	clear	1		
20	-13		2	clear	970	1	5	clear	1		
	JC20058-14		3	yellow	950	1	5	clear	1		
	JC20058-15		4	clear	950	1	5	clear	1		

1d TAT
3d TAT
cl 5/12/16

Comments: okay to split MS/MSD KSIM MS/MSD, not enough bottles
Line 5 through 8: Written incorrectly
Line 5: JC20058-14
Line 6: JC20058-15

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SGS ACCUTEST INC.
Form: OP022A-08
Rev Date: 1/13/16

LOGBOOK ID: 6-1743

ABN Extraction Log - Solids

Date started: ~~5/19/16~~ 5/20/16 Time started: 9:45AM
Date finished: 5/20/16 Time finished: 4pm

Extract Method (CHECK OFF "√" /DO NOT CIRCLE):
Microwave SW3546 √ Sonication SW3550C ____
Waste Dil. SW3580A ____ Soxhlet SW3540C ____

Special Client Spike Instructions

QC ID# for Special Spike	Amt to Spike	Spike ID	Lot #	Conc.	Amt. Spiked

WITNESS SIGN: SPIKE SIGN:
Manager/Supervisor/Team Lead Approval:

SPECIAL PROCESSING INSTRUCTIONS

Rx Reason: MS not spiked.

Spiking:

Weights/Volumes:

Required MS/MSD: JC20130-3

Final Volume:

Other:

30 day TAT

	Sample #	Analysis Type	Sample Bottle #	Sample Description	Sample Wet Wt. (g) Oil (g) Liq (mL)	Decant Y	Decant N	Sonicator ID	Microwave ID	Final Extract Color	Final Extract Vol(mL)	GPC Cleanup	Comments
	MB1	ABN		Sand	30.0			3		Clear	1		
	BS1			Sand	30.0			3		Yellow	1		
	JC20130-3 MS		1	Soil	30.2		/	3		Yellow	1		O
	MSD		1	Soil	30.1		/	3		brown	1		
	BS	12 SIM		Sand	30.0			3		Yellow	1		
	~~JC20098-2~~ MS	4	1	Soil	30.8		/	3		brown	1		*
	MSD	4	1	Soil	33.1		/	3		yellow	1		
1	JC20125-1 rx	ABN	1	Soil	30.5		/	3		Brown	1		
2	JC20197-1		1	Rocks	30.5		/	3		Brown	1		
3	-2		1	Rocks	32.2		/	3		Brown	1		
4	-3		1	Soil	31.8		/	3		Brown	1		
5	JC20098-2		1	Soil	30.3		/	3		Yellow	1		
6	-3		1	Soil	32.1	/		3		Yellow	1		
7	JC20110-6		2	Soil	30.4		/	3		Brown	1		
8	JC20112-9		2	Soil	30.1		/	3		Yellow	1		
9	JC20117-8		1	Soil	30.9		/	3		Brown	1		
10	JC20130-1		1	Soil	30.4		/	3		Yellow	1		
11	-2		1	Soil	30.0		/	3		Yellow	1		
12	-3		1	Soil	30.5		/	3		Yellow	1		
13	-4		1	mud	31.2		/	3		Brown	1		
14	JC20431-1 rx		1	Soil	30.4		/	3		brown	1		
15	JC20560-3		1	Soil	31.4		/	3		Yellow	1		
16	-4		1	Soil	30.4		/	3		Yellow	1		
17	-5		1	Soil	30.0		/	3		Yellow	1		
18	-6		1	Soil	30.0		/	3		Yellow	1		
19	-7		1	Soil	30.5		/	3		Yellow	1		
20	-8		1	Soil	31.3		/	3		Yellow	1		

Comments: MS-MSDA was changed to JC20560-7 due to limited volume.
O color is light brown AQ
* color is light yellow AQ

BATCH # MS 9408.5 RACK# NP1

Weighed/Extracted by:	FN
Concentrated by:	SM
Vialed by:	AQ
Relinquished by:	
Accepted by:	
Supervisor Review:	5/20/16

Equipment/ Range	ID	Observed Temp (°C)	Correction Factor (°C)	Corrected Temp (°C)	Pressure/ Flowrate
Buchi (65-71°C)					
Buchi Chiller					
Waterbath (70-80°C)	10,9	74,72.6	0.6,1.3	73,74	N/A/N/A
Waterbath Chiller (GPM)	m2, m3	10.4	—	—	1.6,1.7
NEVAP (32-38°C, LPM)	2	35.6	0.1	36	10
Balance	5 F2	N/A	N/A	N/A	N/A

SURROGATE	LOT #	CONC (ppm)	AMT (mL)
ABN	1617 12107	50	1.0

WITNESS SIGN: SPIKE SIGN: FN

MATRIX SPIKE	LOT #	CONC (ppm)	AMT (mL)
Acid	16193526	50	Acid: 1.0
Acid (for SIM)			A(SIM): 0.1
Base #1	16193536	50	1.0
Base #2	16193527	50	1.0
Aniline	16193535	50	1.0
BSIM	1617 1286	1	1.0

WITNESS SIGN: SPIKE SIGN: FN

SOLVENT	LOT #	BRAND	AMT (mL)
1:1 METH CHLOR/ ACETONE	162661 / 158571	Fisher / Fisher	30ml
METH CHLOR	162661	Fisher	Var.

REAGENT	LOT #	BRAND
HYDROMATRIX	6280850	Agilent
SODIUM SULFATE	157477	Fisher
FILTER PAPER	9627994	Fisher

MATRIX	LOT #	BRAND
SAND	150805 07A	Fisher

SGS ACCUTEST INC.
Form: OP019A-06
Rev Date: 11/20/15

LOGBOOK ID: 5/20/16 6-1743

Date started: ~~5/19/16~~ 5/24/16 Time started: 9:45AM

Date finished: 5/20/16 Time finished: 4pm

ABN Extraction Log - Solids

Extract Method (CHECK OFF "√" /DO NOT CIRCLE):

Microwave SW3546 √ Sonication SW3550C ____

Waste Dil. SW3580A ____ Soxhlet SW3540C ____

Special Client Spike Instructions

QC ID# for Special Spike	Amt to Spike	Spike ID	Lot #	Conc.	Amt. Spiked

WITNESS SIGN: SPIKE SIGN:

Manager/Supervisor/Team Lead Approval:

SPECIAL PROCESSING INSTRUCTIONS

Rx Reason: MS not spiked.

Spiking:

Weights/Volumes:

Required MS/MSD: JC20130-3

Final Volume:

Other:

30 day TAT

	Sample #	Analysis Type	Sample Bottle #	Sample Description	Sample Wet Wt. (g) Oil (g) Liq (mL)	Decant Y	Decant N	Sonicator ID	Microwave ID	Final Extract Color	Final Extract Vol(mL)	GPC Cleanup	Comments
	MB1	ABN		Sand	30.0			3		Clear	1		
	BS1			Sand	30.0			3		Yellow	1		
	JC20130-3 MS		1	Soil	30.2		/	3		Yellow	1		O
	MSD		1	Soil	30.1		/	3		brown	1		
	BS	12 SIM		Sand	30.0			3		Yellow	1		
	~~JC20098-2~~ MS	4	1	Soil	30.8		/	3		brown	1		*
	MSD	4	1	Soil	33.1		/	3		yellow	1		
1	JC20125-1 rx	ABN	1	Soil	30.5		/	3		Brown	1		
2	JC20197-1		1	Rocks	30.5		/	3		Brown	1		
3	-2		1	Rocks	32.2		/	3		Brown	1		
4	-3		1	Soil	31.8		/	3		Brown	1		
5	JC20098-2		1	Soil	30.3		/	3		Yellow	1		
6	-3		1	Soil	32.1	/		3		Yellow	1		
7	JC20110-6		2	Soil	30.4		/	3		Brown	1		
8	JC20112-9		2	Soil	30.1		/	3		Yellow	1		
9	JC20117-8		1	Soil	30.9		/	3		Brown	1		
10	JC20130-1		1	Soil	30.4		/	3		Yellow	1		
11	-2		1	Soil	30.0		/	3		Yellow	1		
12	-3		1	Soil	30.5		/	3		Yellow	1		
13	-4		1	mud	31.2		/	3		Brown	1		
14	JC20431-1 rx		1	Soil	30.4		/	3		brown	1		
15	JC20560-3		1	Soil	31.4		/	3		Yellow	1		
16	-4		1	Soil	30.4		/	3		Yellow	1		
17	-5		1	Soil	30.0		/	3		Yellow	1		
18	-6		1	Soil	30.0		/	3		Yellow	1		
19	-7		1	Soil	30.5		/	3		Yellow	1		
20	-8		1	Soil	31.3		/	3		Yellow	1		

Comments: MS/MSDA was changed to JC20560-7 due to limited volume.

O color is light brown AQ

* color is light yellow AQ

BATCH # MS 9408.5 RACK# NP1

Weighed/Extracted by:	FN
Concentrated by:	SM
Vialed by:	AQ
Reliuquished by:	
Accepted by:	
Supervisor Review:	5/20/16

Equipment/ Range	ID	Observed Temp (°C)	Correction Factor (°C)	Corrected Temp (°C)	Pressure/ Flowrate
Buchi (65-71°C)					
Buchi Chiller					
Waterbath (70-80°C)	10,9	74,72.6	0.6,1.3	73,74	N/A/N/A
Waterbath Chiller (GPM)	m2, m3	10.4	—	—	1.6,1.7
NEVAP (32-38°C, LPM)	2	35.6	0.1	36	10
Balance	572	N/A	N/A	N/A	N/A

SURROGATE	LOT #	CONC (ppm)	AMT (mL)
ABN	1617 12107	50	1.0

WITNESS SIGN: SPIKE SIGN: FN

MATRIX SPIKE	LOT #	CONC (ppm)	AMT (mL)
Acid	16193526	50	Acid: 1.0
Acid (for SIM)			A(SIM): 0.1
Base #1	16193536	50	1.0
Base #2	16193527	50	1.0
Aniline	16193535	50	1.0
BSIM	1617 1286	1	1.0

WITNESS SIGN: SPIKE SIGN: FN

SOLVENT	LOT #	BRAND	AMT (mL)
1:1 METH CHLOR/ ACETONE	162661 / 158571	Fisher / Fisher	30ml
METH CHLOR	162661	Fisher	Var.

REAGENT	LOT #	BRAND
HYDROMATRIX	6280850	Agilent
SODIUM SULFATE	157477	Fisher
FILTER PAPER	9627994	Fisher

MATRIX	LOT #	BRAND
SAND	150805 07A	Fisher

SGS ACCUTEST INC.

Form: OP019A-06

Rev Date: 11/20/15

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GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- GC Identification Summaries (Hits)
- Surrogate Recovery Summaries
- GC Surrogate Retention Time Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGH5285-MB3 [a]	GH104981.D	1	05/16/16	XPL	n/a	n/a	GGH5285

The QC reported here applies to the following samples: **Method:** SW846-8015C (DAI)

JC20098-1, JC20098-4, JC20098-5

CAS No.	Compound	Result	RL	MDL	Units	Q
64-17-5	Ethanol	ND	100	55	ug/l	
78-83-1	Isobutyl Alcohol	ND	100	36	ug/l	
67-63-0	Isopropyl Alcohol	ND	100	68	ug/l	
71-23-8	n-Propyl Alcohol	ND	100	43	ug/l	
71-36-3	n-Butyl Alcohol	ND	100	87	ug/l	
78-92-2	sec-Butyl Alcohol	ND	100	66	ug/l	
67-56-1	Methanol	ND	200	71	ug/l	

CAS No.	Surrogate Recoveries		Limits
111-27-3	Hexanol	100%	56-145%

(a) Reported from 1st Signal. %RSD of initial calibration on 2nd signal excess method criteria (20%) so using for confirmation only.

Method Blank Summary

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGH5290-MB2	GH105055.D	1	05/18/16	XPL	n/a	n/a	GGH5290

The QC reported here applies to the following samples: **Method:** SW846-8015C (DAI)

JC20098-2, JC20098-3

CAS No.	Compound	Result	RL	MDL	Units	Q
64-17-5	Ethanol	ND	100	69	ug/kg	
78-83-1	Isobutyl Alcohol	ND	100	59	ug/kg	
67-63-0	Isopropyl Alcohol	ND	100	57	ug/kg	
71-23-8	n-Propyl Alcohol	ND	100	40	ug/kg	
71-36-3	n-Butyl Alcohol	ND	100	54	ug/kg	
78-92-2	sec-Butyl Alcohol	ND	100	53	ug/kg	
67-56-1	Methanol	ND	200	48	ug/kg	

CAS No.	Surrogate Recoveries		Limits
111-27-3	Hexanol	87%	52-141%
111-27-3	Hexanol	89%	52-141%

Method Blank Summary

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGH5285-MB1 [a]	GH104961.D	1	05/16/16	XPL	n/a	n/a	GGH5285

The QC reported here applies to the following samples: **Method:** SW846-8015C (DAI)

GGH5285-BS, JC19644-1MS, JC19644-1MSD

CAS No.	Compound	Result	RL	MDL	Units	Q
64-17-5	Ethanol	ND	100	55	ug/l	
78-83-1	Isobutyl Alcohol	ND	100	36	ug/l	
67-63-0	Isopropyl Alcohol	ND	100	68	ug/l	
71-23-8	n-Propyl Alcohol	ND	100	43	ug/l	
71-36-3	n-Butyl Alcohol	ND	100	87	ug/l	
78-92-2	sec-Butyl Alcohol	ND	100	66	ug/l	
67-56-1	Methanol	ND	200	71	ug/l	

CAS No.	Surrogate Recoveries		Limits
111-27-3	Hexanol	104%	56-145%

(a) Reported from 1st Signal. %RSD of initial calibration on 2nd signal excess method criteria (20%) so using for confirmation only.

Method Blank Summary

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGH5290-MB1	GH105050.D	1	05/18/16	XPL	n/a	n/a	GGH5290

The QC reported here applies to the following samples: **Method:** SW846-8015C (DAI)

GGH5290-BS

CAS No.	Compound	Result	RL	MDL	Units	Q
64-17-5	Ethanol	ND	100	69	ug/kg	
78-83-1	Isobutyl Alcohol	ND	100	59	ug/kg	
67-63-0	Isopropyl Alcohol	ND	100	57	ug/kg	
71-23-8	n-Propyl Alcohol	ND	100	40	ug/kg	
71-36-3	n-Butyl Alcohol	ND	100	54	ug/kg	
78-92-2	sec-Butyl Alcohol	ND	100	53	ug/kg	
67-56-1	Methanol	ND	200	48	ug/kg	

CAS No.	Surrogate Recoveries		Limits
111-27-3	Hexanol	87%	52-141%
111-27-3	Hexanol	90%	52-141%

Blank Spike Summary

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGH5285-BS [a]	GH104962.D	1	05/16/16	XPL	n/a	n/a	GGH5285

The QC reported here applies to the following samples: **Method:** SW846-8015C (DAI)

JC20098-1, JC20098-4, JC20098-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
64-17-5	Ethanol	5000	5540	111	74-123
78-83-1	Isobutyl Alcohol	5000	6110	122	70-124
67-63-0	Isopropyl Alcohol	5000	8700	174* [b]	76-121
71-23-8	n-Propyl Alcohol	5000	6100	122	73-122
71-36-3	n-Butyl Alcohol	5000	6320	126* [b]	67-116
78-92-2	sec-Butyl Alcohol	5000	5490	110	74-118
67-56-1	Methanol	5000	4810	96	67-121

CAS No.	Surrogate Recoveries	BSP	Limits
111-27-3	Hexanol	115%	56-145%

(a) Reported from 1st Signal. %RSD of initial calibration on 2nd signal excess method criteria (20%) so using for confirmation only.
(b) High percent recoveries and no associated positive found in the QC batch.

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGH5290-BS	GH105051.D	1	05/18/16	XPL	n/a	n/a	GGH5290

The QC reported here applies to the following samples: **Method:** SW846-8015C (DAI)

JC20098-2, JC20098-3

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
64-17-5	Ethanol	5000	4990	100	75-124
78-83-1	Isobutyl Alcohol	5000	4850	97	67-126
67-63-0	Isopropyl Alcohol	5000	5010	100	76-122
71-23-8	n-Propyl Alcohol	5000	5080	102	72-122
71-36-3	n-Butyl Alcohol	5000	4270	85	62-120
78-92-2	sec-Butyl Alcohol	5000	5120	102	73-120
67-56-1	Methanol	5000	4810	96	66-121

CAS No.	Surrogate Recoveries	BSP	Limits
111-27-3	Hexanol	95%	52-141%
111-27-3	Hexanol	98%	52-141%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC19644-1MS	GH104964.D	1	05/16/16	XPL	n/a	n/a	GGH5285
JC19644-1MSD	GH104965.D	1	05/16/16	XPL	n/a	n/a	GGH5285
JC19644-1	GH104963.D	1	05/16/16	XPL	n/a	n/a	GGH5285

The QC reported here applies to the following samples: **Method:** SW846-8015C (DAI)

JC20098-1, JC20098-4, JC20098-5

CAS No.	Compound	JC19644-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
64-17-5	Ethanol	ND		5000	5730	115	5000	5830	117	2	58-145/27
78-83-1	Isobutyl Alcohol	ND		5000	6360	127	5000	6620	132* [a]	4	69-131/25
67-63-0	Isopropyl Alcohol	ND		5000	5180	104	5000	5900	118	13	70-133/28
71-23-8	n-Propyl Alcohol	ND		5000	6240	125	5000	6730	135	8	66-137/29
71-36-3	n-Butyl Alcohol	ND		5000	6710	134* [a]	5000	6890	138* [a]	3	63-131/25
78-92-2	sec-Butyl Alcohol	ND		5000	5780	116	5000	6090	122	5	64-136/25
67-56-1	Methanol	ND		5000	4920	98	5000	4970	99	1	48-148/34

CAS No.	Surrogate Recoveries	MS	MSD	JC19644-1	Limits
111-27-3	Hexanol	111%	113%	104%	56-145%

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

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC19914-2MS	GH105057.D	1	05/18/16	XPL	n/a	n/a	GGH5290
JC19914-2MSD	GH105058.D	1	05/18/16	XPL	n/a	n/a	GGH5290
JC19914-2	GH105056.D	1	05/18/16	XPL	n/a	n/a	GGH5290

The QC reported here applies to the following samples: **Method:** SW846-8015C (DAI)

JC20098-2, JC20098-3

CAS No.	Compound	JC19914-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
64-17-5	Ethanol	ND		7520	7620	101	7520	7460	99	2	64-132/22
78-83-1	Isobutyl Alcohol	ND		7520	7480	99	7520	7350	98	2	59-141/26
67-63-0	Isopropyl Alcohol	ND		7520	7250	96	7520	7160	95	1	69-131/23
71-23-8	n-Propyl Alcohol	ND		7520	7790	104	7520	7450	99	4	66-135/31
71-36-3	n-Butyl Alcohol	ND		7520	6590	88	7520	6470	86	2	50-140/30
78-92-2	sec-Butyl Alcohol	ND		7520	7730	103	7520	7440	99	4	67-131/30
67-56-1	Methanol	317		7520	6790	86	7520	6840	87	1	58-130/29

CAS No.	Surrogate Recoveries	MS	MSD	JC19914-2	Limits
111-27-3	Hexanol	88%	91%	101%	52-141%
111-27-3	Hexanol	89%	92%	104%	52-141%

* = Outside of Control Limits.

GC Identification Summary

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	GGH5285-CC5269	**Injection Date:**	05/16/16
Lab File ID:	GH104960.D	**Injection Time:**	15:50
Instrument ID:	GCGH	**Method:**	SW846-8015C (DAI)

Sample ID:	GGH5285-BS	**Injection Date:**	05/16/16
Lab File ID:	GH104962.D	**Injection Time:**	16:28
Client ID:	Blank Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Ethanol	1 [a]	1.49	1.49	5540		ug/l	82.3
Ethanol	2	1.11	1.11	2310		ug/l	
Isobutyl Alcohol	1 [a]	3.36	3.36	6110		ug/l	110.9
Isobutyl Alcohol	2	2.89	2.89	1750		ug/l	
Isopropyl Alcohol	1 [a]	1.80	1.80	8700		ug/l	126.8
Isopropyl Alcohol	2	1.37	1.37	1950		ug/l	
n-Propyl Alcohol	1 [a]	2.56	2.56	6100		ug/l	85.7
n-Propyl Alcohol	2	1.94	1.94	2440		ug/l	
n-Butyl Alcohol	1 [a]	3.80	3.80	6320		ug/l	87.9
n-Butyl Alcohol	2	3.38	3.38	2460		ug/l	
sec-Butyl Alcohol	1 [a]	2.99	2.99	5490		ug/l	91.6
sec-Butyl Alcohol	2	2.51	2.51	2040		ug/l	
Methanol	1 [a]	1.15	1.15	4810		ug/l	51.2
Methanol	2	0.86	0.86	2850		ug/l	

(a) QC results reported from this column.

GC Identification Summary

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	GGH5289-CC5288	**Injection Date:**	05/18/16
Lab File ID:	GH105049.D	**Injection Time:**	14:28
Instrument ID:	GCGH	**Method:**	SW846-8015C (DAI)

Sample ID:	GGH5290-BS	**Injection Date:**	05/18/16
Lab File ID:	GH105051.D	**Injection Time:**	14:58
Client ID:	Blank Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Ethanol	1	1.44	1.44	5250		ug/kg	5.1
Ethanol	2 [a]	1.16	1.15	4990		ug/kg	
Isobutyl Alcohol	1	3.30	3.30	4930		ug/kg	1.6
Isobutyl Alcohol	2 [a]	2.94	2.94	4850		ug/kg	
Isopropyl Alcohol	1	1.74	1.74	5250		ug/kg	4.7
Isopropyl Alcohol	2 [a]	1.41	1.40	5010		ug/kg	
n-Propyl Alcohol	1	2.50	2.50	5310		ug/kg	4.4
n-Propyl Alcohol	2 [a]	2.01	2.00	5080		ug/kg	
n-Butyl Alcohol	1	3.75	3.75	5120		ug/kg	18.1
n-Butyl Alcohol	2 [a]	3.42	3.41	4270		ug/kg	
sec-Butyl Alcohol	1 [a]	2.93	2.93	5120		ug/kg	13.3
sec-Butyl Alcohol	2	2.57	2.57	5850		ug/kg	
Methanol	1	1.11	1.11	4940		ug/kg	2.7
Methanol	2 [a]	0.91	0.89	4810		ug/kg	

(a) QC results reported from this column.

GC Identification Summary

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	GGH5285-CC5269	**Injection Date:**	05/16/16
Lab File ID:	GH104960.D	**Injection Time:**	15:50
Instrument ID:	GCGH	**Method:**	SW846-8015C (DAI)

Sample ID:	JC19644-1MS	**Injection Date:**	05/16/16
Lab File ID:	GH104964.D	**Injection Time:**	16:57
Client ID:	Matrix Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Ethanol	1 [a]	1.49	1.49	5730		ug/l	82.3
Ethanol	2	1.12	1.11	2390		ug/l	
Isobutyl Alcohol	1 [a]	3.35	3.36	6360		ug/l	109.5
Isobutyl Alcohol	2	2.89	2.89	1860		ug/l	
Isopropyl Alcohol	1 [a]	1.79	1.80	5180		ug/l	87.8
Isopropyl Alcohol	2	1.37	1.37	2020		ug/l	
n-Propyl Alcohol	1 [a]	2.56	2.56	6240		ug/l	88.9
n-Propyl Alcohol	2	1.95	1.94	2400		ug/l	
n-Butyl Alcohol	1 [a]	3.80	3.80	6710		ug/l	104.3
n-Butyl Alcohol	2	3.38	3.38	2110		ug/l	
sec-Butyl Alcohol	1 [a]	2.99	2.99	5780		ug/l	94.9
sec-Butyl Alcohol	2	2.52	2.51	2060		ug/l	
Methanol	1 [a]	1.15	1.15	4920		ug/l	47.9
Methanol	2	0.86	0.86	3020		ug/l	

(a) QC results reported from this column.

GC Identification Summary

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	GGH5290-CC5288	**Injection Date:**	05/18/16
Lab File ID:	GH105054.D	**Injection Time:**	15:49
Instrument ID:	GCGH	**Method:**	SW846-8015C (DAI)

Sample ID:	JC19914-2MS	**Injection Date:**	05/18/16
Lab File ID:	GH105057.D	**Injection Time:**	16:40
Client ID:	Matrix Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Ethanol	1	1.42	1.45	7440		ug/kg	2.4
Ethanol	2 [a]	1.15	1.15	7620		ug/kg	
Isobutyl Alcohol	1	3.29	3.30	8040		ug/kg	7.2
Isobutyl Alcohol	2 [a]	2.94	2.94	7480		ug/kg	
Isopropyl Alcohol	1	1.72	1.74	7340		ug/kg	1.2
Isopropyl Alcohol	2 [a]	1.40	1.41	7250		ug/kg	
n-Propyl Alcohol	1	2.48	2.50	7750		ug/kg	0.5
n-Propyl Alcohol	2 [a]	2.00	2.00	7790		ug/kg	
n-Butyl Alcohol	1	3.74	3.75	7340		ug/kg	10.8
n-Butyl Alcohol	2 [a]	3.41	3.42	6590		ug/kg	
sec-Butyl Alcohol	1	2.92	2.93	7490		ug/kg	3.2
sec-Butyl Alcohol	2 [a]	2.57	2.57	7730		ug/kg	
Methanol	1 [a]	1.09	1.12	6790		ug/kg	7.2
Methanol	2	0.89	0.90	7300		ug/kg	

(a) QC results reported from this column.

GC Identification Summary

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	GGH5285-CC5269	**Injection Date:**	05/16/16
Lab File ID:	GH104960.D	**Injection Time:**	15:50
Instrument ID:	GCGH	**Method:**	SW846-8015C (DAI)

Sample ID:	JC19644-1MSD	**Injection Date:**	05/16/16
Lab File ID:	GH104965.D	**Injection Time:**	17:12
Client ID:	Matrix Spike Duplicate		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Ethanol	1 [a]	1.49	1.49	5830		ug/l	84.0
Ethanol	2	1.11	1.11	2380		ug/l	
Isobutyl Alcohol	1 [a]	3.35	3.36	6620		ug/l	112.3
Isobutyl Alcohol	2	2.89	2.89	1860		ug/l	
Isopropyl Alcohol	1 [a]	1.79	1.80	5900		ug/l	98.0
Isopropyl Alcohol	2	1.36	1.37	2020		ug/l	
n-Propyl Alcohol	1 [a]	2.56	2.56	6730		ug/l	107.7
n-Propyl Alcohol	2	1.94	1.94	2020		ug/l	
n-Butyl Alcohol	1 [a]	3.80	3.80	6890		ug/l	105.9
n-Butyl Alcohol	2	3.38	3.38	2120		ug/l	
sec-Butyl Alcohol	1 [a]	2.99	2.99	6090		ug/l	98.2
sec-Butyl Alcohol	2	2.51	2.51	2080		ug/l	
Methanol	1 [a]	1.15	1.15	4970		ug/l	47.6
Methanol	2	0.86	0.86	3060		ug/l	

(a) QC results reported from this column.

GC Identification Summary

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	GGH5290-CC5288	**Injection Date:**	05/18/16
Lab File ID:	GH105054.D	**Injection Time:**	15:49
Instrument ID:	GCGH	**Method:**	SW846-8015C (DAI)

Sample ID:	JC19914-2MSD	**Injection Date:**	05/18/16
Lab File ID:	GH105058.D	**Injection Time:**	16:54
Client ID:	Matrix Spike Duplicate		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Ethanol	1	1.44	1.45	7480		ug/kg	0.3
Ethanol	2 [a]	1.15	1.15	7460		ug/kg	
Isobutyl Alcohol	1	3.30	3.30	7830		ug/kg	6.3
Isobutyl Alcohol	2 [a]	2.94	2.94	7350		ug/kg	
Isopropyl Alcohol	1	1.74	1.74	7560		ug/kg	5.4
Isopropyl Alcohol	2 [a]	1.41	1.41	7160		ug/kg	
n-Propyl Alcohol	1	2.50	2.50	7820		ug/kg	4.8
n-Propyl Alcohol	2 [a]	2.00	2.00	7450		ug/kg	
n-Butyl Alcohol	1	3.75	3.75	7310		ug/kg	12.2
n-Butyl Alcohol	2 [a]	3.42	3.42	6470		ug/kg	
sec-Butyl Alcohol	1	2.93	2.93	7670		ug/kg	3.0
sec-Butyl Alcohol	2 [a]	2.57	2.57	7440		ug/kg	
Methanol	1 [a]	1.11	1.12	6840		ug/kg	15.9
Methanol	2	0.90	0.90	8020		ug/kg	

(a) QC results reported from this column.

Volatile Surrogate Recovery Summary

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Method: SW846-8015C (DAI) **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]
JC20098-1	GH104982.D	97
JC20098-4	GH104983.D	102
JC20098-5	GH104984.D	100
GGH5285-BS	GH104962.D	115
GGH5285-MB3	GH104981.D	100
JC19644-1MS	GH104964.D	111
JC19644-1MSD	GH104965.D	113
GGH5285-MB1	GH104961.D	104

Surrogate Compounds	Recovery Limits
S1 = Hexanol	56-145%

(a) Recovery from GC signal #1

Volatile Surrogate Recovery Summary

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Method: SW846-8015C (DAI) **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]
JC20098-2	GH105062.D	107	110
JC20098-3	GH105063.D	110	112
GGH5290-BS	GH105051.D	95	98
GGH5290-MB2	GH105055.D	87	89
JC19914-2MS	GH105057.D	88	89
JC19914-2MSD	GH105058.D	91	92
GGH5290-MB1	GH105050.D	87	90

Surrogate Compounds	Recovery Limits
S1 = Hexanol	52-141%

(a) Recovery from GC signal #2
(b) Recovery from GC signal #1

GC Surrogate Retention Time Summary

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	GGH5285-CC5269	**Injection Date:**	05/16/16
Lab File ID:	GH104960.D	**Injection Time:**	15:50
Instrument ID:	GCGH	**Method:**	SW846-8015C (DAI)

	S1 [a] **RT**
Check Std	5.60

Lab Sample ID	**Lab File ID**	**Date Analyzed**	**Time Analyzed**	**S1** [a] **RT**
GGH5285-MB1	GH104961.D	05/16/16	16:06	5.60
GGH5285-BS	GH104962.D	05/16/16	16:28	5.60
JC19644-1	GH104963.D	05/16/16	16:45	5.60
JC19644-1MS	GH104964.D	05/16/16	16:57	5.60
JC19644-1MSD	GH104965.D	05/16/16	17:12	5.60
ZZZZZZ	GH104966.D	05/16/16	17:30	5.60
ZZZZZZ	GH104967.D	05/16/16	17:45	5.60
ZZZZZZ	GH104968.D	05/16/16	18:07	5.59
ZZZZZZ	GH104969.D	05/16/16	18:21	5.60

Surrogate Compounds

S1 = Hexanol

(a) Retention time from GC signal #1

GC Surrogate Retention Time Summary

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	GGH5285-CC5269	**Injection Date:**	05/16/16
Lab File ID:	GH104980.D	**Injection Time:**	21:21
Instrument ID:	GCGH	**Method:**	SW846-8015C (DAI)

	S1 [a] **RT**
Check Std	5.60

Lab Sample ID	**Lab File ID**	**Date Analyzed**	**Time Analyzed**	**S1** [a] **RT**
GGH5285-MB3	GH104981.D	05/16/16	21:36	5.60
JC20098-1	GH104982.D	05/16/16	21:58	5.60
JC20098-4	GH104983.D	05/16/16	22:12	5.60
JC20098-5	GH104984.D	05/16/16	22:26	5.60
ZZZZZZ	GH104985.D	05/16/16	22:41	5.60
ZZZZZZ	GH104986.D	05/16/16	23:03	5.60

Surrogate Compounds

S1 = Hexanol

(a) Retention time from GC signal #1

GC Surrogate Retention Time Summary

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	GGH5289-CC5288	**Injection Date:**	05/18/16
Lab File ID:	GH105049.D	**Injection Time:**	14:28
Instrument ID:	GCGH	**Method:**	SW846-8015C (DAI)

	S1 [a] RT	S1 [b] RT
Check Std	5.50	5.56

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
GGH5290-MB1	GH105050.D	05/18/16	14:42	5.50	5.56
GGH5290-BS	GH105051.D	05/18/16	14:58	5.50	5.56
ZZZZZZ	GH105052.D	05/18/16	15:13	5.51	5.56
ZZZZZZ	GH105053.D	05/18/16	15:27	5.49	5.56

Surrogate Compounds

S1 = Hexanol

(a) Retention time from GC signal #2
(b) Retention time from GC signal #1

GC Surrogate Retention Time Summary

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	GGH5290-CC5288	**Injection Date:**	05/18/16
Lab File ID:	GH105054.D	**Injection Time:**	15:49
Instrument ID:	GCGH	**Method:**	SW846-8015C (DAI)

	S1 [a] RT	S1 [b] RT
Check Std	5.50	5.56

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
GGH5290-MB2	GH105055.D	05/18/16	16:03	5.50	5.56
JC19914-2	GH105056.D	05/18/16	16:18	5.50	5.56
JC19914-2MS	GH105057.D	05/18/16	16:40	5.50	5.56
JC19914-2MSD	GH105058.D	05/18/16	16:54	5.50	5.56
ZZZZZZ	GH105059.D	05/18/16	17:08	5.50	5.56
ZZZZZZ	GH105060.D	05/18/16	17:23	5.50	5.56
ZZZZZZ	GH105061.D	05/18/16	17:44	5.50	5.56
JC20098-2	GH105062.D	05/18/16	17:59	5.50	5.56
JC20098-3	GH105063.D	05/18/16	18:13	5.50	5.56
ZZZZZZ	GH105064.D	05/18/16	18:35	5.50	5.56

Surrogate Compounds

S1 = Hexanol

(a) Retention time from GC signal #2
(b) Retention time from GC signal #1

Initial Calibration Summary

Job Number: JC20098 **Sample:** GGH5269-ICC5269
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** GH104677.D
Project: BMSMC, Building 5 Area, PR

Response Factor Report GCGH

Method : C:\HPCHEM\1\METHODS\MGH5269.M (Chemstation Integrator)
Title : METHOD SW846-8015C (DAI)
Last Update : Tue May 10 11:06:41 2016
Response via : Initial Calibration

Calibration Files
0.5 =GH104675.D 1 =GH104676.D 5 =GH104677.D 10 =GH104678.D
50 =GH104679.D 0.1 =GH104674.D = =

Compound	0.5	1	5	10	50	0.1	Avg	%RSD
1) Methanol	1.593	1.539	1.394	1.397	1.324	1.614	1.477 E1	8.16
2) Ethanol	1.886	1.927	1.846	1.938	1.739	1.891	1.871 E1	3.88
3) Tert-Butyl A	2.841	2.742	2.685	2.870	2.582	2.661	2.730 E1	4.04
4) 1-Propanol	2.460	2.397	2.412	2.420	2.246	1.437	2.229 E1	17.71
5) 2-Propanol	2.027	2.007	1.963	2.223	1.850	2.379	2.075 E1	9.26
6) Isobutanol	3.098	2.831	2.858	2.791	2.576	2.339	2.749 E1	9.48
7) 1-Butanol	1.745	2.588	2.859	2.723	2.489	2.288	2.449 E1	16.19
8) 2-Butanol	2.464	3.139	2.505	2.469	2.291	2.251	2.520 E1	12.72
9) Hexanol	7.782	7.590	7.989	8.011	8.288	6.248	7.651 E1	9.50

Signal #2

1) Methanol	1.288	3.166	1.383	1.032	2.946	2.383	2.033 E1	45.20
2) Ethanol	2.817	4.146	3.410	2.123	3.657	2.911	3.177 E1	22.41
3) Tert-Butyl A	6.834	6.135	8.110	5.969	5.847	6.282	6.529 E1	12.97
4) 1-Propanol	4.091	3.958	7.681	4.455	4.689	4.687	4.927 E1	28.06
5) 2-Propanol	4.552	4.456	4.692	3.160	4.050	4.175	4.181 E1	13.25
6) Isobutanol	9.360	5.533	5.494	4.786	5.166	6.882	6.204 E1	27.41
7) 1-Butanol	5.498	5.794	5.135	4.164	5.031	5.438	5.177 E1	10.93
8) 2-Butanol	4.534	5.210	5.963	4.341	4.794	4.806	4.941 E1	11.74
9) Hexanol	1.693	1.682	1.706	1.575	1.818	1.401	1.646 E2	8.66

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

MGH5269.M Tue May 10 11:10:00 2016 GCGH

Initial Calibration Verification

Job Number: JC20098 **Sample:** GGH5269-ICV5269
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** GH104683.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\HPCHEM\1\DATA\GH104683.D\FID1A.CH        Vial: 10
Acq On    :  9 May 2016   5:42 pm                   Operator: XULIU
Sample    : ICV5269-5000                            Inst    : GCGH
Misc      : GC48342,GGH5269,5.0,,,,1                Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH104683.D\FID2B.CH        Vial: 10
Acq On    :  9 May 2016   6:04 pm                   Operator: XULIU
Sample    : ICV5269-5000                            Inst    : GCGH
Misc      : GC48342,GGH5269,5.0,,,,1                Multiplr: 1.00
IntFile   : autoint2.e

Method       : C:\HPCHEM\1\METHODS\MGH5269.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Tue May 10 10:29:55 2016
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 : 150%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	Methanol	14.769	13.949	5.6	100	0.00	1.11- 1.17
2	Ethanol	18.712	19.655	-5.0	106	0.00	1.44- 1.53
3	Tert-Butyl Alcohol	27.303	28.294	-3.6	105	0.00	2.01- 2.13
4	1-Propanol	22.287	23.452	-5.2	97	0.00	2.50- 2.62
5	2-Propanol	20.750	19.885	4.2	101	0.00	1.75- 1.84
6	Isobutanol	27.487	29.253	-6.4	102	-0.01	3.31- 3.41
7	1-Butanol	24.487	27.754	-13.3	97	0.00	3.80- 3.86
8	2-Butanol	25.198	24.667	2.1	98	0.00	2.93- 3.05
9 S	Hexanol	76.514	69.300	9.4	87	0.00	5.57- 5.63
*****	Signal #2 *****						
1	Methanol	18.183	29.885	-64.4#	216#	0.00	0.85- 0.91
2	Ethanol	31.774	39.803	-25.3#	117	-0.01	1.10- 1.16
3	Tert-Butyl Alcohol	65.293	63.130	3.3	78	-0.01	1.59- 1.65
4	1-Propanol	49.271	52.689	-6.9	69	0.00	1.93- 2.00
5	2-Propanol	41.806	43.484	-4.0	93	-0.01	1.35- 1.41
6	Isobutanol	62.036	58.038	6.4	106	0.00	2.87- 2.93
7	1-Butanol	51.767	64.401	-24.4#	125	-0.01	3.35- 3.41
8	2-Butanol	49.414	52.519	-6.3	88	0.00	2.50- 2.56
9 S	Hexanol	164.574	152.865	7.1	90	0.01	5.41- 5.47

(#) = Out of Range SPCC's out = 0 CCC's out = 0
GH104677.D MGH5269.M Tue May 10 10:47:36 2016 GCGH

Continuing Calibration Summary

Job Number: JC20098 **Sample:** GGH5285-CC5269
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** GH104960.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\HPCHEM\1\DATA\GH104960.D\FID1A.CH        Vial: 90
Acq On    : 16 May 2016   3:50 pm                   Operator: XULIU
Sample    : CC5269-5000                             Inst    : GCGH
Misc      : GC48420,GGH5285,5.0,,,,1                Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH104960.D\FID2B.CH        Vial: 90
Acq On    : 16 May 2016   4:06 pm                   Operator: XULIU
Sample    : CC5269-5000                             Inst    : GCGH
Misc      : GC48420,GGH5285,5.0,,,,1                Multiplr: 1.00
IntFile   : autoint2.e

Method       : C:\HPCHEM\1\METHODS\MGH5269.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Tue May 10 11:06:41 2016
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 : 150%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	Methanol	14.769	15.539	-5.2	111	0.00	1.12- 1.18
2	Ethanol	18.712	20.181	-7.9	109	0.00	1.45- 1.54
3	Tert-Butyl Alcohol	27.303	27.932	-2.3	104	0.00	2.01- 2.13
4	1-Propanol	22.287	26.640	-19.5	110	0.00	2.50- 2.62
5	2-Propanol	20.750	21.265	-2.5	108	0.00	1.75- 1.84
6	Isobutanol	27.487	29.690	-8.0	104	0.00	3.31- 3.40
7	1-Butanol	24.487	30.580	-24.9#	107	0.00	3.77- 3.83
8	2-Butanol	25.198	26.836	-6.5	107	0.00	2.93- 3.05
9 S	Hexanol	76.514	79.188	-3.5	99	0.00	5.57- 5.63

***** Signal #2 *****

1	Methanol	20.329	12.123	40.4#	88	-0.03	0.83- 0.89
2	Ethanol	31.774	14.023	55.9#	41#	-0.03	1.08- 1.14
3	Tert-Butyl Alcohol	65.293	24.578	62.4#	30#	-0.03	1.57- 1.63
4	1-Propanol	49.271	17.818	63.8#	23#	-0.02	1.91- 1.98
5	2-Propanol	41.806	15.827	62.1#	34#	-0.02	1.34- 1.40
6	Isobutanol	62.036	20.449	67.0#	37#	0.00	2.86- 2.92
7	1-Butanol	51.767	20.165	61.0#	39#	-0.01	3.35- 3.41
8	2-Butanol	49.414	18.847	61.9#	32#	-0.02	2.48- 2.54
9 S	Hexanol	164.574	55.647	66.2#	33#	0.05	5.45- 5.51

(#) = Out of Range SPCC's out = 0 CCC's out = 0
GH104677.D MGH5269.M Tue May 17 07:43:54 2016 GCGH

Continuing Calibration Summary

Job Number: JC20098 **Sample:** GGH5285-CC5269
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** GH104970.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\HPCHEM\1\DATA\GH104970.D\FID1A.CH        Vial: 95
Acq On    : 16 May 2016   6:35 pm                   Operator: XULIU
Sample    : CC5269-10000                            Inst    : GCGH
Misc      : GC48420,GGH5285,5.0,,,,1                Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH104970.D\FID2B.CH        Vial: 95
Acq On    : 16 May 2016   6:50 pm                   Operator: XULIU
Sample    : CC5269-10000                            Inst    : GCGH
Misc      : GC48420,GGH5285,5.0,,,,1                Multiplr: 1.00
IntFile   : autoint2.e

Method       : C:\HPCHEM\1\METHODS\MGH5269.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Tue May 10 11:06:41 2016
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 : 150%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	Methanol	14.769	15.639	-5.9	112	0.00	1.11- 1.17
2	Ethanol	18.712	19.990	-6.8	103	0.00	1.44- 1.53
3	Tert-Butyl Alcohol	27.303	29.597	-8.4	103	0.00	2.01- 2.13
4	1-Propanol	22.287	26.594	-19.3	110	0.00	2.50- 2.62
5	2-Propanol	20.750	21.147	-1.9	95	0.00	1.75- 1.84
6	Isobutanol	27.487	30.720	-11.8	110	-0.02	3.31- 3.40
7	1-Butanol	24.487	29.375	-20.0	108	-0.03	3.77- 3.83
8	2-Butanol	25.198	27.070	-7.4	110	0.00	2.93- 3.05
9 S	Hexanol	76.514	68.194	10.9	85	-0.01	5.57- 5.63
*****	Signal #2 *****						
1	Methanol	20.329	8.116	60.1#	79	-0.02	0.84- 0.90
2	Ethanol	31.774	8.863	72.1#	42#	-0.03	1.08- 1.14
3	Tert-Butyl Alcohol	65.293	15.588	76.1#	26#	-0.03	1.57- 1.63
4	1-Propanol	49.271	10.781	78.1#	24#	-0.02	1.90- 1.97
5	2-Propanol	41.806	8.923	78.7#	28#	-0.03	1.33- 1.39
6	Isobutanol	62.036	16.062	74.1#	34#	0.00	2.87- 2.93
7	1-Butanol	51.767	15.372	70.3#	37#	0.00	3.36- 3.42
8	2-Butanol	49.414	14.363	70.9#	33#	-0.02	2.48- 2.54
9 S	Hexanol	164.574	39.514	76.0#	25#	0.05	5.45- 5.51

(#) = Out of Range SPCC's out = 0 CCC's out = 0
GH104678.D MGH5269.M Tue May 17 08:00:40 2016 GCGH

Continuing Calibration Summary

Job Number: JC20098 **Sample:** GGH5285-CC5269
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** GH104980.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\HPCHEM\1\DATA\GH104980.D\FID1A.CH        Vial: 90
Acq On    : 16 May 2016   9:21 pm                   Operator: XULIU
Sample    : CC5269-5000                             Inst    : GCGH
Misc      : GC48420,GGH5285,5.0,,,,1                Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH104980.D\FID2B.CH        Vial: 90
Acq On    : 16 May 2016   9:36 pm                   Operator: XULIU
Sample    : CC5269-5000                             Inst    : GCGH
Misc      : GC48420,GGH5285,5.0,,,,1                Multiplr: 1.00
IntFile   : autoint2.e

Method       : C:\HPCHEM\1\METHODS\MGH5269.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Tue May 10 11:06:41 2016
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 : 150%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	Methanol	14.769	14.527	1.6	104	0.00	1.12- 1.18
2	Ethanol	18.712	19.163	-2.4	104	0.00	1.45- 1.54
3	Tert-Butyl Alcohol	27.303	28.737	-5.3	107	0.00	2.01- 2.13
4	1-Propanol	22.287	26.006	-16.7	108	0.00	2.50- 2.62
5	2-Propanol	20.750	20.257	2.4	103	0.00	1.75- 1.84
6	Isobutanol	27.487	30.840	-12.2	108	0.00	3.31- 3.41
7	1-Butanol	24.487	29.313	-19.7	103	0.00	3.77- 3.83
8	2-Butanol	25.198	26.896	-6.7	107	0.00	2.93- 3.05
9 S	Hexanol	76.514	76.705	-0.2	96	0.00	5.57- 5.63
*****	Signal #2 *****						
1	Methanol	20.329	12.266	39.7#	89	-0.03	0.83- 0.89
2	Ethanol	31.774	13.387	57.9#	39#	-0.03	1.08- 1.14
3	Tert-Butyl Alcohol	65.293	21.949	66.4#	27#	-0.03	1.57- 1.63
4	1-Propanol	49.271	17.420	64.6#	23#	-0.02	1.91- 1.98
5	2-Propanol	41.806	15.199	63.6#	32#	-0.03	1.33- 1.39
6	Isobutanol	62.036	19.832	68.0#	36#	0.00	2.86- 2.92
7	1-Butanol	51.767	19.625	62.1#	38#	-0.01	3.35- 3.41
8	2-Butanol	49.414	18.338	62.9#	31#	-0.02	2.48- 2.54
9 S	Hexanol	164.574	53.755	67.3#	32#	0.05	5.45- 5.51

(#) = Out of Range SPCC's out = 0 CCC's out = 0
GH104677.D MGH5269.M Tue May 17 08:19:24 2016 GCGH

Continuing Calibration Summary

Job Number: JC20098 **Sample:** GGH5285-CC5269
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** GH104987.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\HPCHEM\1\DATA\GH104987.D\FID1A.CH        Vial: 95
Acq On    : 16 May 2016  11:17 pm                   Operator: XULIU
Sample    : CC5269-10000                            Inst    : GCGH
Misc      : GC48423,GGH5285,5.0,,,,1                Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH104987.D\FID2B.CH        Vial: 95
Acq On    : 16 May 2016  11:31 pm                   Operator: XULIU
Sample    : CC5269-10000                            Inst    : GCGH
Misc      : GC48423,GGH5285,5.0,,,,1                Multiplr: 1.00
IntFile   : autoint2.e

Method       : C:\HPCHEM\1\METHODS\MGH5269.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Tue May 10 11:06:41 2016
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 : 150%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	Methanol	14.769	15.927	-7.8	114	0.00	1.12- 1.18
2	Ethanol	18.712	19.526	-4.4	101	0.00	1.45- 1.54
3	Tert-Butyl Alcohol	27.303	28.688	-5.1	100	0.00	2.01- 2.13
4	1-Propanol	22.287	26.535	-19.1	110	0.00	2.50- 2.62
5	2-Propanol	20.750	20.740	0.0	93	0.00	1.75- 1.85
6	Isobutanol	27.487	29.916	-8.8	107	0.00	3.31- 3.41
7	1-Butanol	24.487	28.850	-17.8	106	0.00	3.77- 3.83
8	2-Butanol	25.198	26.500	-5.2	107	0.00	2.93- 3.05
9 S	Hexanol	76.514	64.512	15.7	81	0.00	5.57- 5.63
*****	Signal #2 *****						
1	Methanol	20.329	11.614	42.9#	113	-0.03	0.83- 0.89
2	Ethanol	31.774	13.333	58.0#	63	-0.03	1.08- 1.14
3	Tert-Butyl Alcohol	65.293	21.428	67.2#	36#	-0.03	1.57- 1.63
4	1-Propanol	49.271	17.206	65.1#	39#	-0.02	1.91- 1.98
5	2-Propanol	41.806	15.020	64.1#	48#	-0.03	1.33- 1.39
6	Isobutanol	62.036	26.984	56.5#	56	-0.01	2.86- 2.92
7	1-Butanol	51.767	19.070	63.2#	46#	-0.01	3.35- 3.41
8	2-Butanol	49.414	18.319	62.9#	42#	-0.02	2.48- 2.54
9 S	Hexanol	164.574	45.374	72.4#	29#	0.05	5.45- 5.51

(#) = Out of Range SPCC's out = 0 CCC's out = 0
GH104678.D MGH5269.M Tue May 17 08:52:13 2016 GCGH

8.7.6

8

Initial Calibration Summary

Job Number: JC20098 **Sample:** GGH5288-ICC5288
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** GH105020.D
Project: BMSMC, Building 5 Area, PR

Response Factor Report GCGH

Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title : METHOD SW846-8015C (DAI)
Last Update : Wed May 18 08:55:49 2016
Response via : Initial Calibration

Calibration Files
0.5 =GH105018.D 1 =GH105019.D 5 =GH105020.D 10 =GH105021.D
50 =GH105022.D 100 =GH105023.D 0.1 =GH105017.D =

Compound	0.5	1	5	10	50	100	0.1	Avg		%RSD
1) Methanol	1.474	1.617	1.549	1.574	1.441	1.381	1.784	1.546	E1	8.59
2) Ethanol	1.481	1.886	1.989	2.027	1.870	1.914	2.099	1.895	E1	10.57
3) Tert-Butyl A	2.644	2.895	2.860	2.948	2.724	2.958	2.806	2.833	E1	4.12
4) 1-Propanol	2.265	2.525	2.568	2.579	2.395	2.511	2.187	2.433	E1	6.38
5) 2-Propanol	1.765	2.050	2.101	2.139	1.981	2.028	1.888	1.993	E1	6.50
6) Isobutanol	2.804	2.950	2.948	2.988	2.739	2.927	2.784	2.877	E1	3.42
7) 1-Butanol	2.898	2.941	2.862	2.890	2.632	2.755	3.014	2.856	E1	4.42
8) 2-Butanol	2.368	2.558	2.588	2.626	2.424	2.540	2.840	2.563	E1	5.95
9) Hexanol	6.661	6.854	6.904	7.104	6.883		6.152	6.760	E1	4.87

Signal #2

1) Methanol	3.395	2.969	3.474	3.464	3.153	3.141	2.982	3.225	E1	6.76
2) Ethanol	4.063	3.635	4.347	4.327	3.993	4.176	3.361	3.986	E1	9.18
3) Tert-Butyl A	6.528	6.375	6.640	6.640	6.134	6.562	5.629	6.358	E1	5.79
4) 1-Propanol	5.216	5.281	5.494	5.499	5.155	5.488	3.458	5.084	E1	14.38
5) 2-Propanol	4.929	4.342	4.733	4.727	4.363	4.597	4.004	4.528	E1	6.88
6) Isobutanol	6.364	5.960	6.233	6.327	5.766	6.160	6.044	6.122	E1	3.48
7) 1-Butanol	7.458	7.365	6.389	6.043	5.678	5.940	7.445	6.617	E1	11.83
8) 2-Butanol	5.511	5.860	5.620	5.660	5.265	5.573	4.510	5.428	E1	8.15
9) Hexanol	1.546	1.555	1.589	1.628	1.578		1.424	1.553	E2	4.50

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

MGH5288.M Wed May 18 09:03:27 2016 GCGH

Initial Calibration Verification

Job Number: JC20098 **Sample:** GGH5288-ICV5288
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** GH105024.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\HPCHEM\1\DATA\GH105024.D\FID1A.CH        Vial: 9
Acq On    : 17 May 2016   6:02 pm                   Operator: XULIU
Sample    : ICV5288-5000                            Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105024.D\FID2B.CH        Vial: 9
Acq On    : 17 May 2016   6:24 pm                   Operator: XULIU
Sample    : ICV5288-5000                            Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                Multiplr: 1.00
IntFile   : autoint2.e

Method       : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Wed May 18 08:55:49 2016
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 : 150%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	Methanol	15.459	13.025	15.7	84	0.00	1.09- 1.15
2	Ethanol	18.950	20.029	-5.7	101	0.00	1.41- 1.50
3	Tert-Butyl Alcohol	28.335	29.971	-5.8	105	0.00	1.96- 2.08
4	1-Propanol	24.326	25.536	-5.0	99	0.00	2.46- 2.58
5	2-Propanol	19.931	21.074	-5.7	100	0.00	1.71- 1.80
6	Isobutanol	28.771	30.222	-5.0	103	0.00	3.27- 3.36
7	1-Butanol	28.561	29.118	-2.0	102	0.00	3.73- 3.79
8	2-Butanol	25.634	26.603	-3.8	103	0.00	2.89- 3.01
9 S	Hexanol	67.597	69.942	-3.5	101	0.00	5.54- 5.60
*****	Signal #2 *****						
1	Methanol	32.254	34.546	-7.1	99	0.00	0.87- 0.93
2	Ethanol	39.861	45.328	-13.7	104	0.00	1.13- 1.19
3	Tert-Butyl Alcohol	63.583	66.584	-4.7	100	0.00	1.63- 1.69
4	1-Propanol	50.842	57.021	-12.2	104	0.01	1.99- 2.06
5	2-Propanol	45.279	47.646	-5.2	101	0.00	1.38- 1.44
6	Isobutanol	61.221	66.607	-8.8	107	0.00	2.91- 2.97
7	1-Butanol	66.170	65.238	1.4	102	0.01	3.39- 3.45
8	2-Butanol	54.284	60.860	-12.1	108	0.00	2.54- 2.60
9 S	Hexanol	155.348	158.160	-1.8	100	0.00	5.47- 5.53

(#) = Out of Range SPCC's out = 0 CCC's out = 0
GH105020.D MGH5288.M Wed May 18 09:09:59 2016 GCGH

Continuing Calibration Summary

Job Number: JC20098 **Sample:** GGH5289-CC5288
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** GH105049.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\HPCHEM\1\DATA\GH105049.D\FID1A.CH        Vial: 95
Acq On    : 18 May 2016   2:28 pm                   Operator: XULIU
Sample    : CC5288-5000                             Inst    : GCGH
Misc      : GC48428,GGH5289,5.0,,,,1                Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105049.D\FID2B.CH        Vial: 95
Acq On    : 18 May 2016   2:42 pm                   Operator: XULIU
Sample    : CC5288-5000                             Inst    : GCGH
Misc      : GC48428,GGH5289,5.0,,,,1                Multiplr: 1.00
IntFile   : autoint2.e

Method       : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Wed May 18 08:55:49 2016
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 : 150%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	Methanol	15.459	14.841	4.0	96	0.00	1.08- 1.14
2	Ethanol	18.950	19.343	-2.1	97	0.00	1.40- 1.49
3	Tert-Butyl Alcohol	28.335	31.328	-10.6	110	0.00	1.94- 2.06
4	1-Propanol	24.326	25.618	-5.3	100	0.00	2.44- 2.56
5	2-Propanol	19.931	21.895	-9.9	104	0.00	1.70- 1.79
6	Isobutanol	28.771	29.460	-2.4	100	0.00	3.26- 3.35
7	1-Butanol	28.561	28.242	1.1	99	0.00	3.72- 3.78
8	2-Butanol	25.634	25.922	-1.1	100	0.00	2.87- 2.99
9 S	Hexanol	67.597	67.224	0.6	97	0.00	5.53- 5.59
*****	Signal #2 *****						
1	Methanol	32.254	32.273	-0.1	93	0.00	0.86- 0.92
2	Ethanol	39.861	40.591	-1.8	93	0.00	1.12- 1.18
3	Tert-Butyl Alcohol	63.583	65.441	-2.9	99	0.00	1.62- 1.68
4	1-Propanol	50.842	52.989	-4.2	96	0.00	1.96- 2.03
5	2-Propanol	45.279	45.818	-1.2	97	0.00	1.37- 1.43
6	Isobutanol	61.221	58.758	4.0	94	0.00	2.91- 2.97
7	1-Butanol	66.170	58.103	12.2	91	0.00	3.38- 3.44
8	2-Butanol	54.284	55.027	-1.4	98	0.00	2.54- 2.60
9 S	Hexanol	155.348	149.347	3.9	94	0.00	5.47- 5.53

(#) = Out of Range SPCC's out = 0 CCC's out = 0
GH105020.D MGH5288.M Wed May 18 14:51:45 2016 GCGH

Continuing Calibration Summary

Job Number: JC20098 **Sample:** GGH5290-CC5288
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** GH105054.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\HPCHEM\1\DATA\GH105054.D\FID1A.CH        Vial: 95
Acq On    : 18 May 2016   3:49 pm                   Operator: XULIU
Sample    : CC5288-10000                            Inst    : GCGH
Misc      : GC48425,GGH5290,5.0,,,,1                Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105054.D\FID2B.CH        Vial: 95
Acq On    : 18 May 2016   4:03 pm                   Operator: XULIU
Sample    : CC5288-10000                            Inst    : GCGH
Misc      : GC48425,GGH5290,5.0,,,,1                Multiplr: 1.00
IntFile   : autoint2.e

Method       : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Wed May 18 08:55:49 2016
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 : 150%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	Methanol	15.459	15.574	-0.7	99	0.00	1.09- 1.15
2	Ethanol	18.950	19.698	-3.9	97	0.00	1.40- 1.49
3	Tert-Butyl Alcohol	28.335	28.257	0.3	96	0.00	1.94- 2.06
4	1-Propanol	24.326	24.185	0.6	94	0.00	2.44- 2.56
5	2-Propanol	19.931	20.438	-2.5	96	0.00	1.70- 1.79
6	Isobutanol	28.771	29.902	-3.9	100	0.00	3.26- 3.35
7	1-Butanol	28.561	28.382	0.6	98	0.00	3.72- 3.78
8	2-Butanol	25.634	26.458	-3.2	101	0.00	2.87- 2.99
9 S	Hexanol	67.597	67.624	-0.0	95	0.00	5.53- 5.59
*****	Signal #2 *****						
1	Methanol	32.254	33.991	-5.4	98	0.00	0.87- 0.93
2	Ethanol	39.861	42.049	-5.5	97	0.00	1.12- 1.18
3	Tert-Butyl Alcohol	63.583	65.711	-3.3	99	0.00	1.62- 1.68
4	1-Propanol	50.842	54.471	-7.1	99	0.00	1.97- 2.04
5	2-Propanol	45.279	46.412	-2.5	98	0.00	1.38- 1.44
6	Isobutanol	61.221	58.995	3.6	93	0.00	2.91- 2.97
7	1-Butanol	66.170	60.450	8.6	100	0.00	3.39- 3.45
8	2-Butanol	54.284	55.698	-2.6	98	0.00	2.54- 2.60
9 S	Hexanol	155.348	151.109	2.7	93	0.00	5.47- 5.53

(#) = Out of Range SPCC's out = 0 CCC's out = 0
GH105021.D MGH5288.M Thu May 19 08:04:13 2016 GCGH

8.7.10

8

Continuing Calibration Summary

Job Number: JC20098 **Sample:** GGH5290-CC5288
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** GH105065.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\HPCHEM\1\DATA\GH105065.D\FID1A.CH        Vial: 10
Acq On    : 18 May 2016   6:49 pm                   Operator: XULIU
Sample    : CC5288-5000                             Inst    : GCGH
Misc      : GC48426,GGH5290,5.0,,,,1                Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105065.D\FID2B.CH        Vial: 10
Acq On    : 18 May 2016   7:04 pm                   Operator: XULIU
Sample    : CC5288-5000                             Inst    : GCGH
Misc      : GC48426,GGH5290,5.0,,,,1                Multiplr: 1.00
IntFile   : autoint2.e

Method       : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Wed May 18 08:55:49 2016
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 : 150%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	Methanol	15.459	15.045	2.7	97	0.00	1.08- 1.14
2	Ethanol	18.950	19.460	-2.7	98	0.00	1.40- 1.49
3	Tert-Butyl Alcohol	28.335	28.125	0.7	98	0.00	1.94- 2.06
4	1-Propanol	24.326	25.708	-5.7	100	0.00	2.44- 2.56
5	2-Propanol	19.931	20.519	-3.0	98	0.00	1.69- 1.78
6	Isobutanol	28.771	30.001	-4.3	102	0.00	3.25- 3.35
7	1-Butanol	28.561	28.166	1.4	98	0.00	3.72- 3.78
8	2-Butanol	25.634	26.054	-1.6	101	0.00	2.87- 2.99
9 S	Hexanol	67.597	66.658	1.4	97	0.00	5.53- 5.59
*****	Signal #2 *****						
1	Methanol	32.254	31.744	1.6	91	0.00	0.87- 0.93
2	Ethanol	39.861	40.118	-0.6	92	0.00	1.12- 1.18
3	Tert-Butyl Alcohol	63.583	64.820	-1.9	98	0.00	1.62- 1.68
4	1-Propanol	50.842	51.285	-0.9	93	0.00	1.97- 2.04
5	2-Propanol	45.279	45.259	0.0	96	0.00	1.38- 1.44
6	Isobutanol	61.221	55.192	9.8	89	0.00	2.92- 2.98
7	1-Butanol	66.170	57.257	13.5	90	0.00	3.39- 3.45
8	2-Butanol	54.284	55.208	-1.7	98	0.00	2.54- 2.60
9 S	Hexanol	155.348	149.462	3.8	94	0.00	5.47- 5.53

(#) = Out of Range SPCC's out = 0 CCC's out = 0
GH105020.D MGH5288.M Thu May 19 08:00:56 2016 GCGH

8.7.11

8

GC Volatiles

Raw Data

Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH104982.D\FID1A.CH          Vial: 18
Acq On    : 16 May 2016   9:58 pm                     Operator: XULIU
Sample    : JC20098-1                                 Inst    : GCGH
Misc      : GC48422,GGH5285,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH104982.D\FID2B.CH          Vial: 18
Acq On    : 16 May 2016  10:12 pm                     Operator: XULIU
Sample    : JC20098-1                                 Inst    : GCGH
Misc      : GC48422,GGH5285,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 17  8:23 2016  Quant Results File: MGH5269.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5269.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Tue May 17 07:48:39 2016
Response via : Initial Calibration
DataAcq Meth : MGH5269.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
System Monitoring Compounds						
9) S Hexanol	5.60	5.48	370683	255680	4844.643	1553.591 #
Spiked Amount 5000.000			Recovery	=	96.89%	31.07%
Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

SGS ACCUTEST JC20098

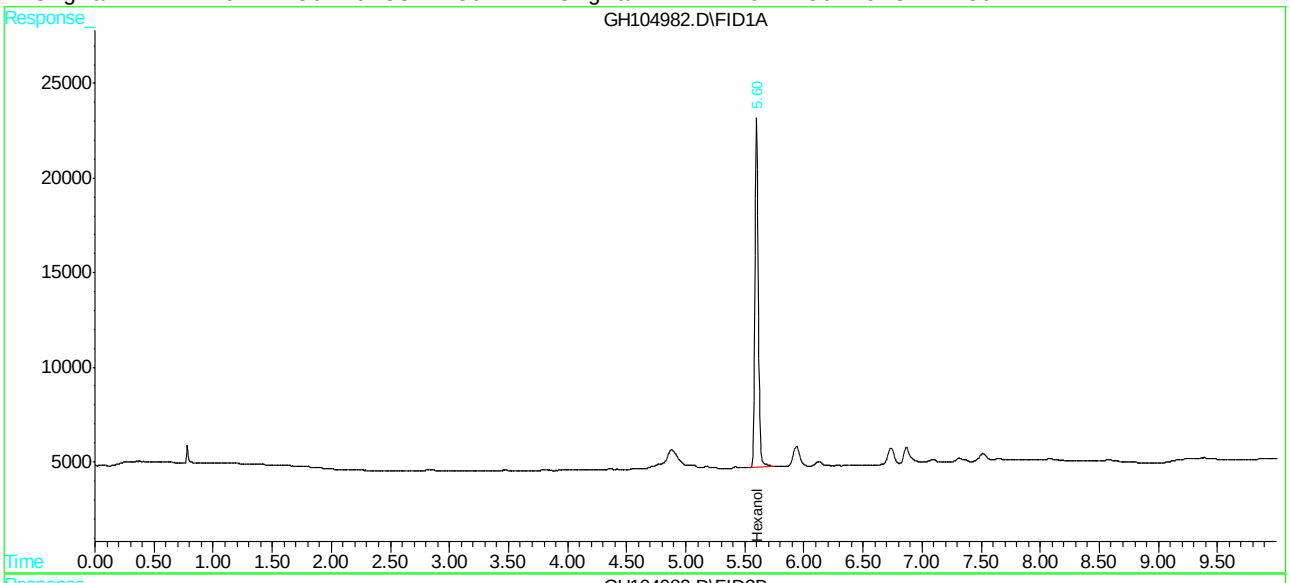
Quantitation Report (QT Reviewed)

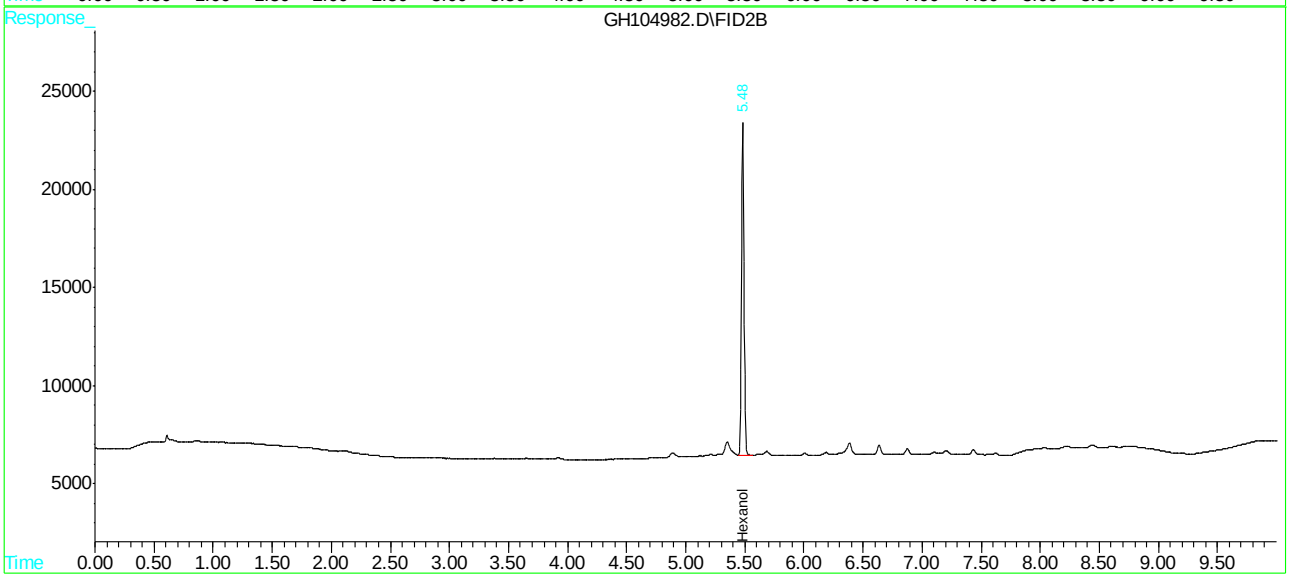
```
Data File : C:\HPCHEM\1\DATA\GH104982.D\FID1A.CH          Vial: 18
Acq On    : 16 May 2016   9:58 pm                     Operator: XULIU
Sample    : JC20098-1                                 Inst    : GCGH
Misc      : GC48422,GGH5285,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH104982.D\FID2B.CH          Vial: 18
Acq On    : 16 May 2016  10:12 pm                     Operator: XULIU
Sample    : JC20098-1                                 Inst    : GCGH
Misc      : GC48422,GGH5285,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 17  8:23 2016  Quant Results File: MGH5269.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5269.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Tue May 17 07:48:39 2016
Response via : Multiple Level Calibration
DataAcq Meth : MGH5269.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```





Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH105062.D\FID1A.CH          Vial: 7
Acq On    : 18 May 2016   5:59 pm                     Operator: XULIU
Sample    : JC20098-2                                 Inst    : GCGH
Misc      : GC48426,GGH5290,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105062.D\FID2B.CH          Vial: 7
Acq On    : 18 May 2016   6:13 pm                     Operator: XULIU
Sample    : JC20098-2                                 Inst    : GCGH
Misc      : GC48426,GGH5290,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 19  7:36 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Thu May 19 07:23:53 2016
Response via : Initial Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um

 Compound          RT#1   RT#2    Resp#1   Resp#2     PPB       PPB
---------------------------------------------------------------------

System Monitoring Compounds
9) S   Hexanol          5.56   5.50    371636   831510 5497.839  5352.579
 Spiked Amount   5000.000                 Recovery     =  109.96%   107.05%

Target Compounds
```

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

GH105062.D MGH5288.M Thu May 19 07:36:19 2016 GCGH

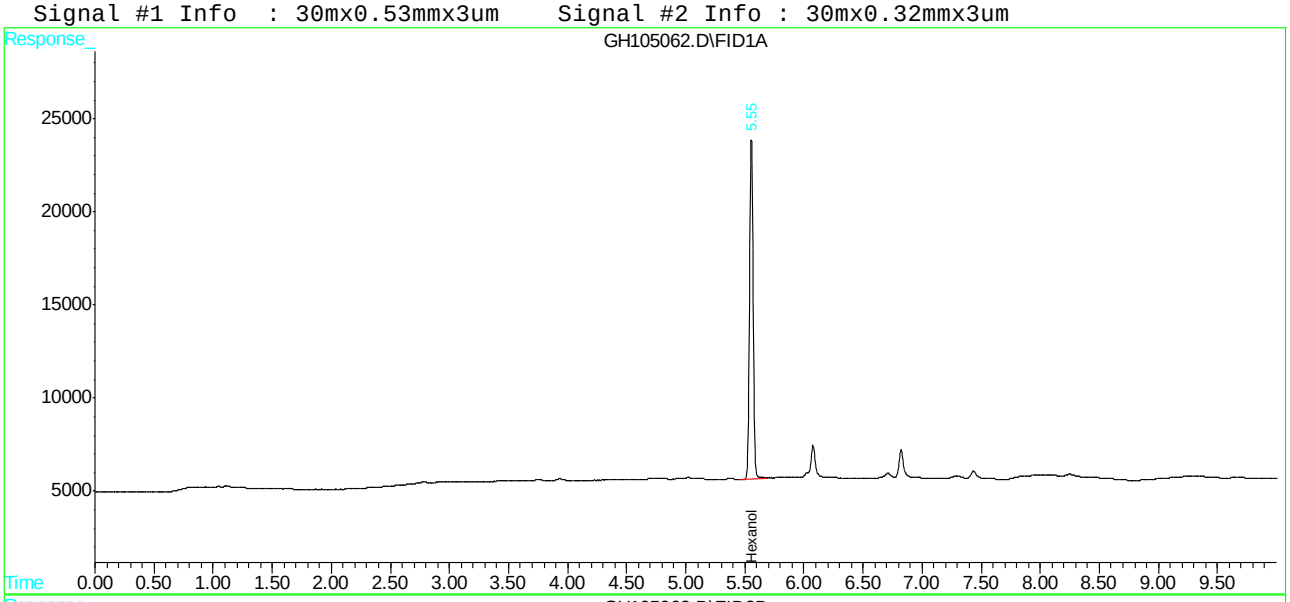
Quantitation Report (QT Reviewed)

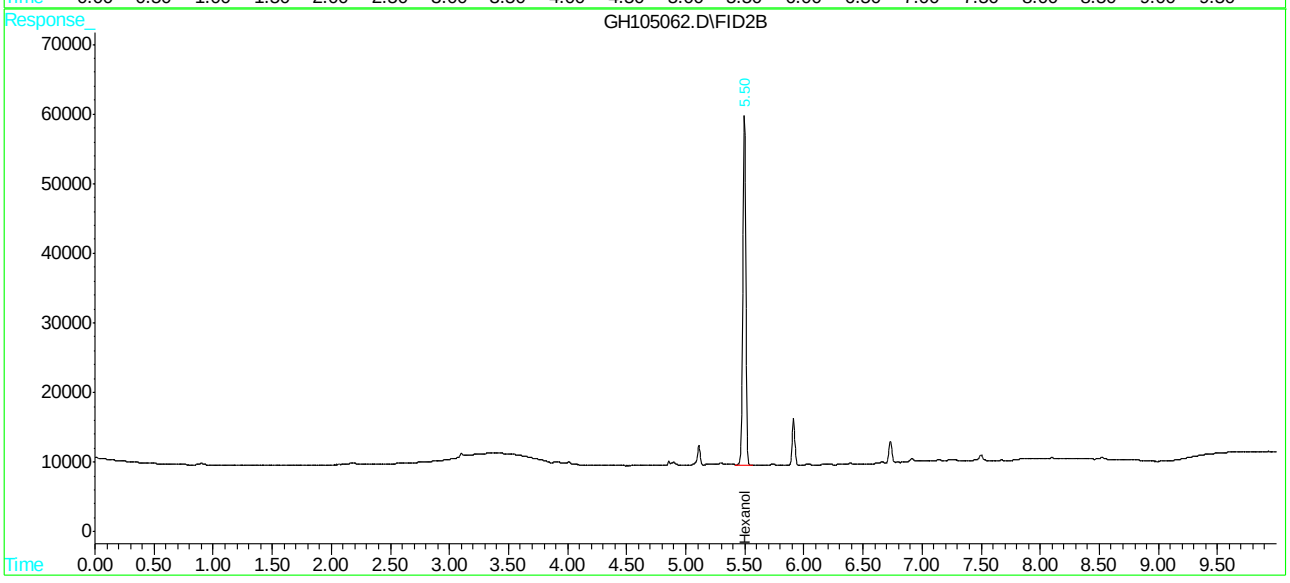
```
Data File : C:\HPCHEM\1\DATA\GH105062.D\FID1A.CH          Vial: 7
Acq On    : 18 May 2016   5:59 pm                     Operator: XULIU
Sample    : JC20098-2                                 Inst    : GCGH
Misc      : GC48426,GGH5290,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105062.D\FID2B.CH          Vial: 7
Acq On    : 18 May 2016   6:13 pm                     Operator: XULIU
Sample    : JC20098-2                                 Inst    : GCGH
Misc      : GC48426,GGH5290,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 19  7:36 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Thu May 19 07:23:53 2016
Response via : Multiple Level Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```





Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH105063.D\FID1A.CH          Vial: 8
Acq On    : 18 May 2016   6:13 pm                     Operator: XULIU
Sample    : JC20098-3                                 Inst    : GCGH
Misc      : GC48426,GGH5290,5.1,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105063.D\FID2B.CH          Vial: 8
Acq On    : 18 May 2016   6:35 pm                     Operator: XULIU
Sample    : JC20098-3                                 Inst    : GCGH
Misc      : GC48426,GGH5290,5.1,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 19  7:36 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Thu May 19 07:23:53 2016
Response via : Initial Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um

 Compound          RT#1   RT#2    Resp#1   Resp#2     PPB       PPB
---------------------------------------------------------------------

System Monitoring Compounds
9) S   Hexanol          5.56   5.50    379950   855300 5620.836  5505.722
 Spiked Amount   5000.000                 Recovery     =  112.42%   110.11%

Target Compounds
```

9.1.3

9

```
---------------------------------------------------------------------------
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40%  (m)=manual int.
GH105063.D  MGH5288.M      Thu May 19 07:36:36 2016      GCGH
```


SGS ACCUTEST JC20098

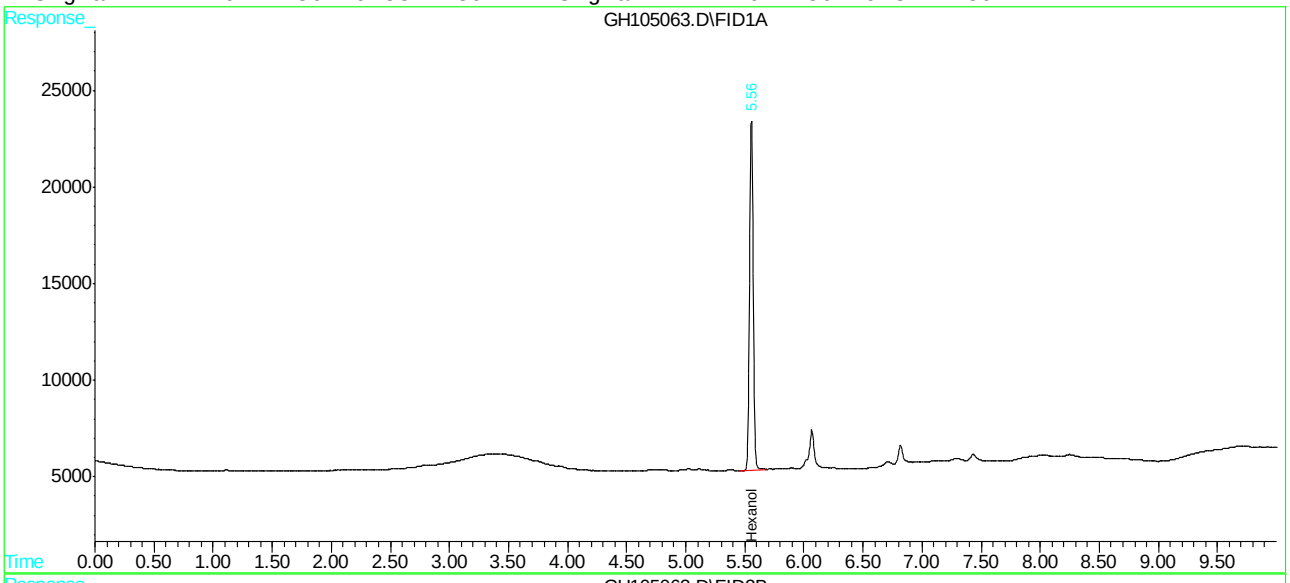
Quantitation Report (QT Reviewed)

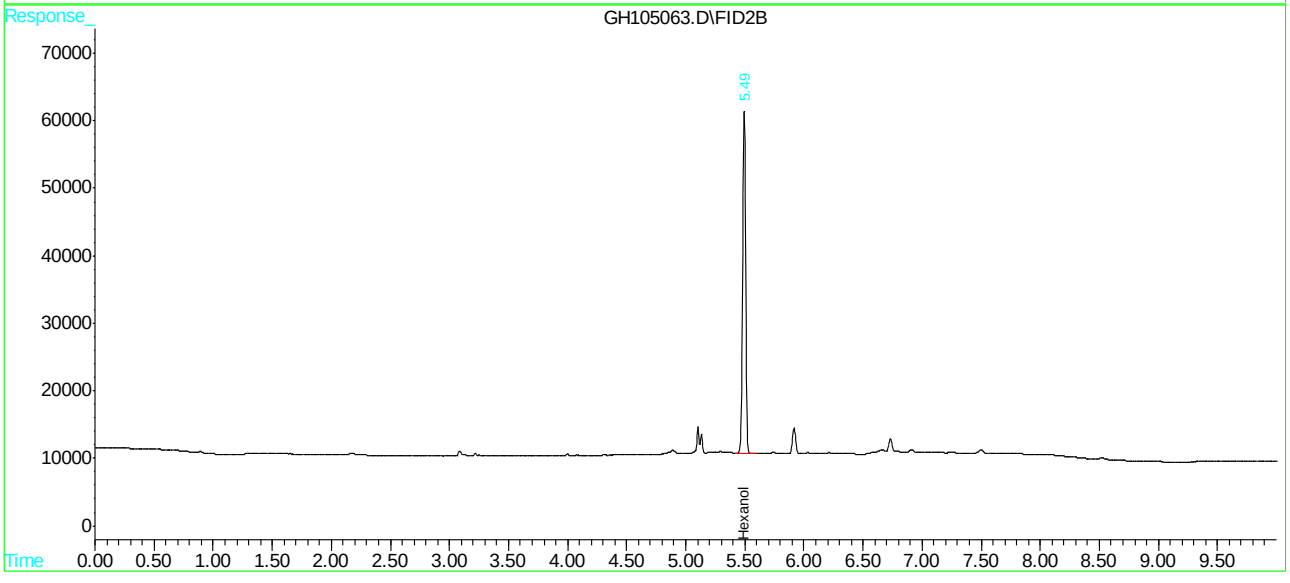
```
Data File : C:\HPCHEM\1\DATA\GH105063.D\FID1A.CH          Vial: 8
Acq On    : 18 May 2016   6:13 pm                     Operator: XULIU
Sample    : JC20098-3                                 Inst    : GCGH
Misc      : GC48426,GGH5290,5.1,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105063.D\FID2B.CH          Vial: 8
Acq On    : 18 May 2016   6:35 pm                     Operator: XULIU
Sample    : JC20098-3                                 Inst    : GCGH
Misc      : GC48426,GGH5290,5.1,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 19  7:36 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Thu May 19 07:23:53 2016
Response via : Multiple Level Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```





Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH104983.D\FID1A.CH          Vial: 19
Acq On    : 16 May 2016  10:12 pm                     Operator: XULIU
Sample    : JC20098-4                                 Inst    : GCGH
Misc      : GC48422,GGH5285,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH104983.D\FID2B.CH          Vial: 19
Acq On    : 16 May 2016  10:26 pm                     Operator: XULIU
Sample    : JC20098-4                                 Inst    : GCGH
Misc      : GC48422,GGH5285,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 17  8:26 2016  Quant Results File: MGH5269.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5269.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Tue May 17 07:48:39 2016
Response via : Initial Calibration
DataAcq Meth : MGH5269.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um

 Compound          RT#1   RT#2    Resp#1   Resp#2     PPB       PPB
---------------------------------------------------------------------

System Monitoring Compounds
9) S   Hexanol           5.60   5.48    391633   262633 5118.446  1595.837 #
 Spiked Amount   5000.000                  Recovery     =  102.37%    31.92%

Target Compounds
```

9.1.4

9

```
---------------------------------------------------------------------------
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40%  (m)=manual int.
GH104983.D  MGH5269.M      Tue May 17 08:26:37 2016      GCGH
```


SGS ACCUTEST JC20098

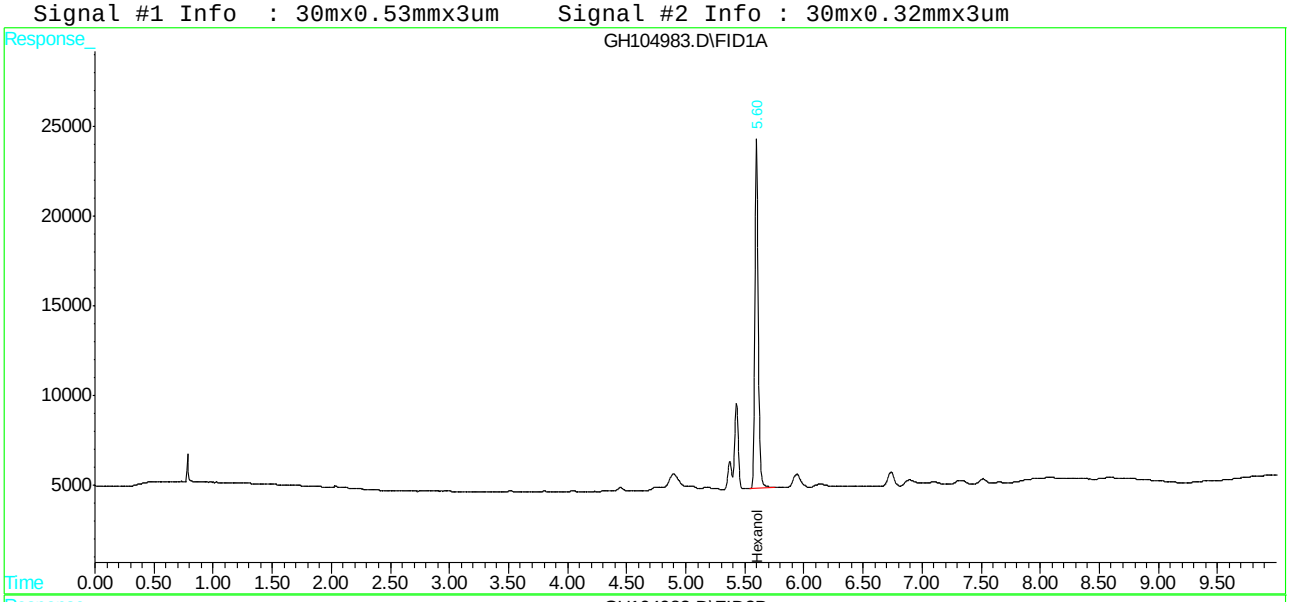
Quantitation Report (QT Reviewed)

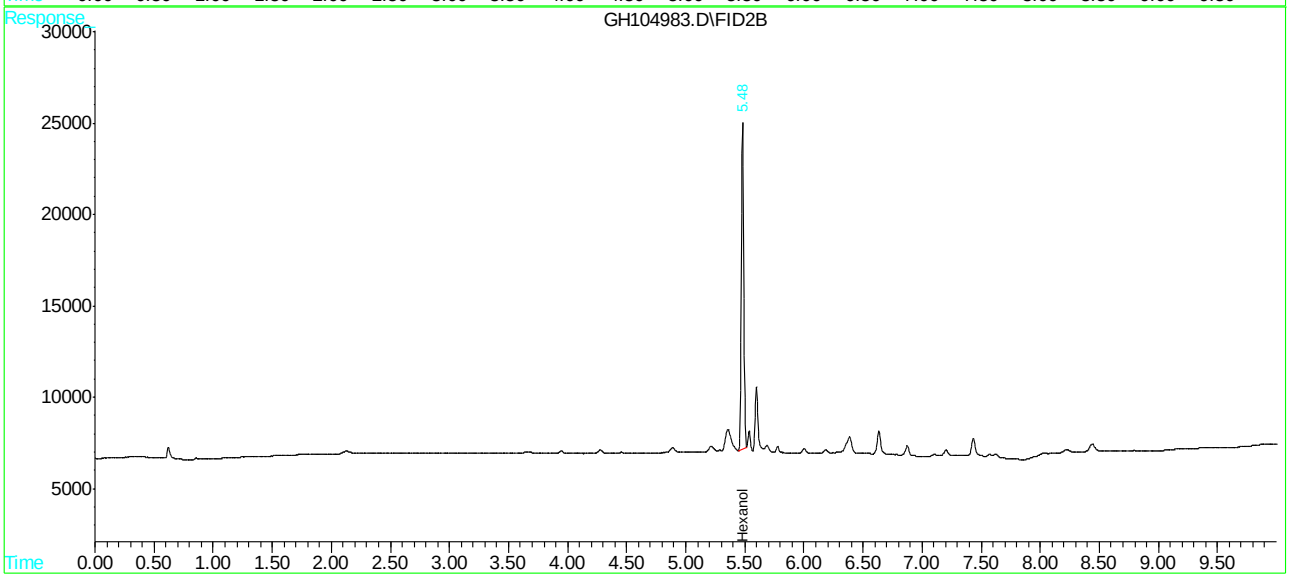
```
Data File : C:\HPCHEM\1\DATA\GH104983.D\FID1A.CH          Vial: 19
Acq On    : 16 May 2016  10:12 pm                     Operator: XULIU
Sample    : JC20098-4                                 Inst    : GCGH
Misc      : GC48422,GGH5285,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH104983.D\FID2B.CH          Vial: 19
Acq On    : 16 May 2016  10:26 pm                     Operator: XULIU
Sample    : JC20098-4                                 Inst    : GCGH
Misc      : GC48422,GGH5285,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 17  8:26 2016  Quant Results File: MGH5269.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5269.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Tue May 17 07:48:39 2016
Response via : Multiple Level Calibration
DataAcq Meth : MGH5269.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```





Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH104984.D\FID1A.CH          Vial: 20
Acq On    : 16 May 2016  10:26 pm                     Operator: XULIU
Sample    : JC20098-5                                 Inst    : GCGH
Misc      : GC48422,GGH5285,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH104984.D\FID2B.CH          Vial: 20
Acq On    : 16 May 2016  10:41 pm                     Operator: XULIU
Sample    : JC20098-5                                 Inst    : GCGH
Misc      : GC48422,GGH5285,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 17  8:26 2016  Quant Results File: MGH5269.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5269.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Tue May 17 07:48:39 2016
Response via : Initial Calibration
DataAcq Meth : MGH5269.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um

 Compound          RT#1   RT#2    Resp#1   Resp#2     PPB       PPB
---------------------------------------------------------------------------

System Monitoring Compounds
9) S   Hexanol           5.60   5.48    384461   257093 5024.713  1562.171 #
 Spiked Amount   5000.000                  Recovery     =  100.49%    31.24%

Target Compounds
```

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

GH104984.D MGH5269.M Tue May 17 08:26:55 2016 GCGH

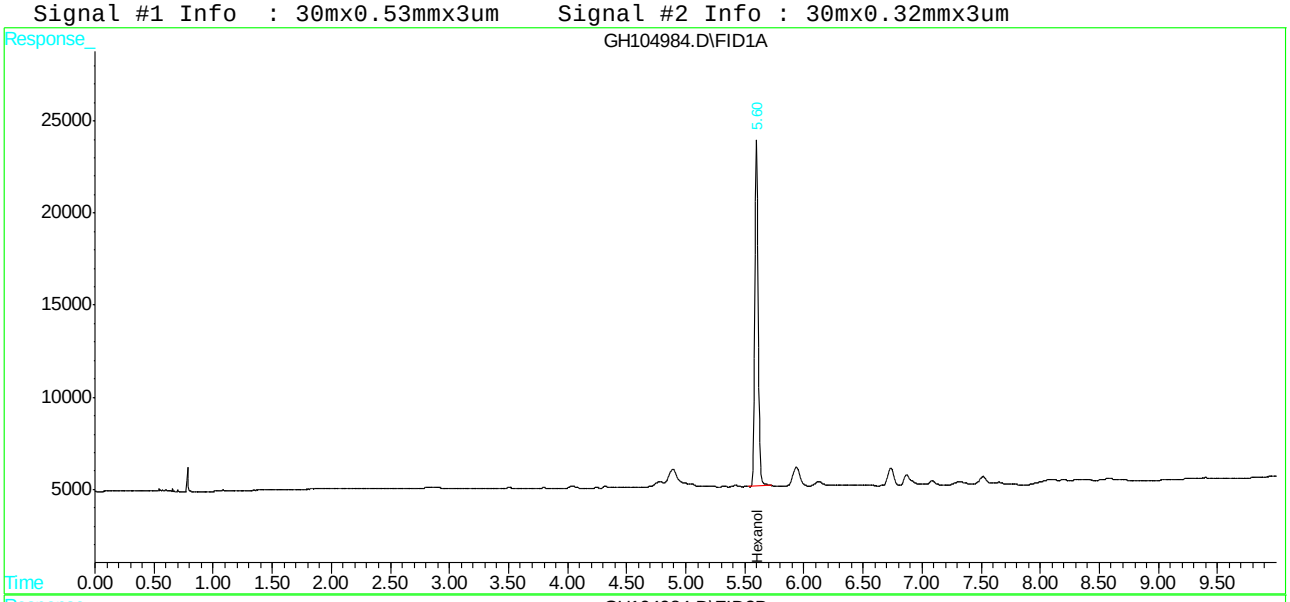
Quantitation Report (QT Reviewed)

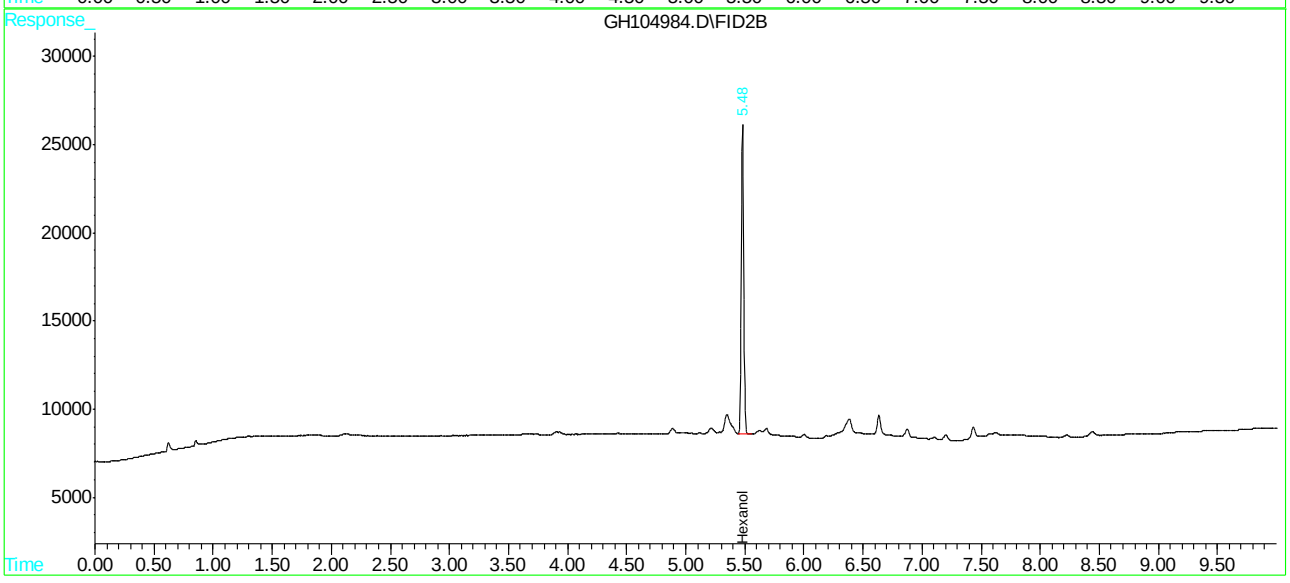
```
Data File : C:\HPCHEM\1\DATA\GH104984.D\FID1A.CH          Vial: 20
Acq On    : 16 May 2016  10:26 pm                     Operator: XULIU
Sample    : JC20098-5                                 Inst    : GCGH
Misc      : GC48422,GGH5285,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH104984.D\FID2B.CH          Vial: 20
Acq On    : 16 May 2016  10:41 pm                     Operator: XULIU
Sample    : JC20098-5                                 Inst    : GCGH
Misc      : GC48422,GGH5285,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 17  8:26 2016  Quant Results File: MGH5269.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5269.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Tue May 17 07:48:39 2016
Response via : Multiple Level Calibration
DataAcq Meth : MGH5269.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```





Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH104981.D\FID1A.CH          Vial: 91
Acq On    : 16 May 2016   9:36 pm                     Operator: XULIU
Sample    : MB3                                       Inst    : GCGH
Misc      : GC48422,GGH5285,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH104981.D\FID2B.CH          Vial: 91
Acq On    : 16 May 2016   9:58 pm                     Operator: XULIU
Sample    : MB3                                       Inst    : GCGH
Misc      : GC48422,GGH5285,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 17  8:23 2016  Quant Results File: MGH5269.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5269.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Tue May 17 07:48:39 2016
Response via : Initial Calibration
DataAcq Meth : MGH5269.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um

 Compound          RT#1   RT#2    Resp#1   Resp#2     PPB       PPB
---------------------------------------------------------------------

System Monitoring Compounds
9) S   Hexanol           5.60   5.48    383448   268039 5011.474  1628.684 #
 Spiked Amount   5000.000                  Recovery     =  100.23%    32.57%

Target Compounds
```

9.2.1

9

```
---------------------------------------------------------------------------
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40%  (m)=manual int.
GH104981.D  MGH5269.M      Tue May 17 08:26:09 2016      GCGH
```


SGS ACCUTEST JC20098

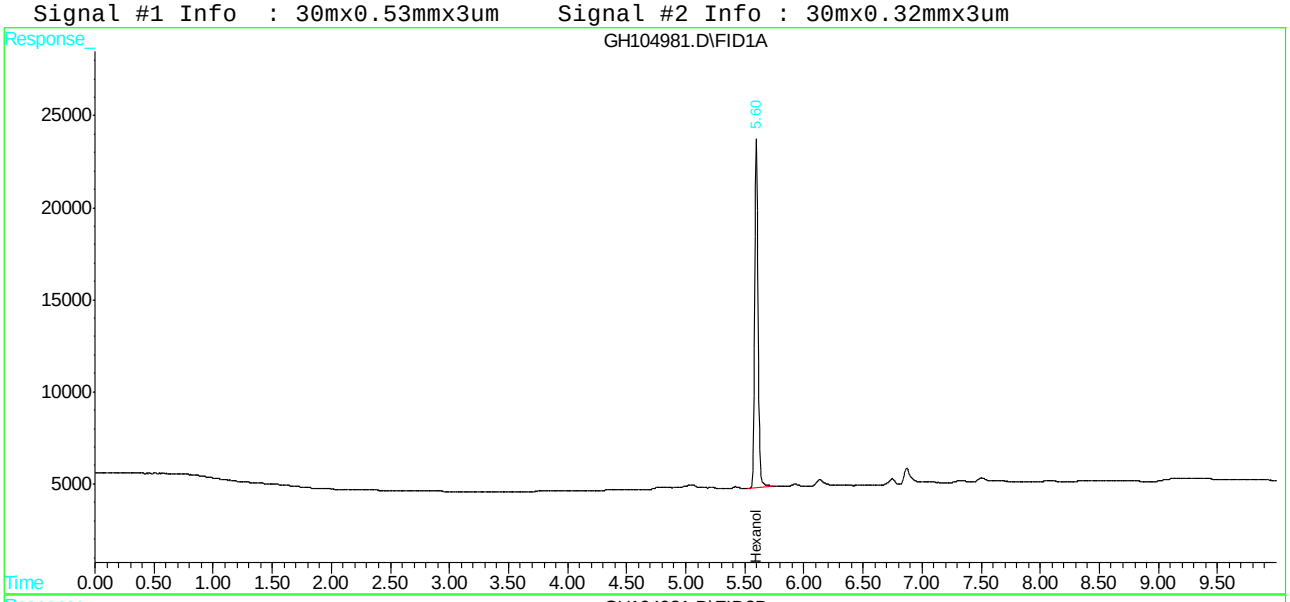
Quantitation Report (QT Reviewed)

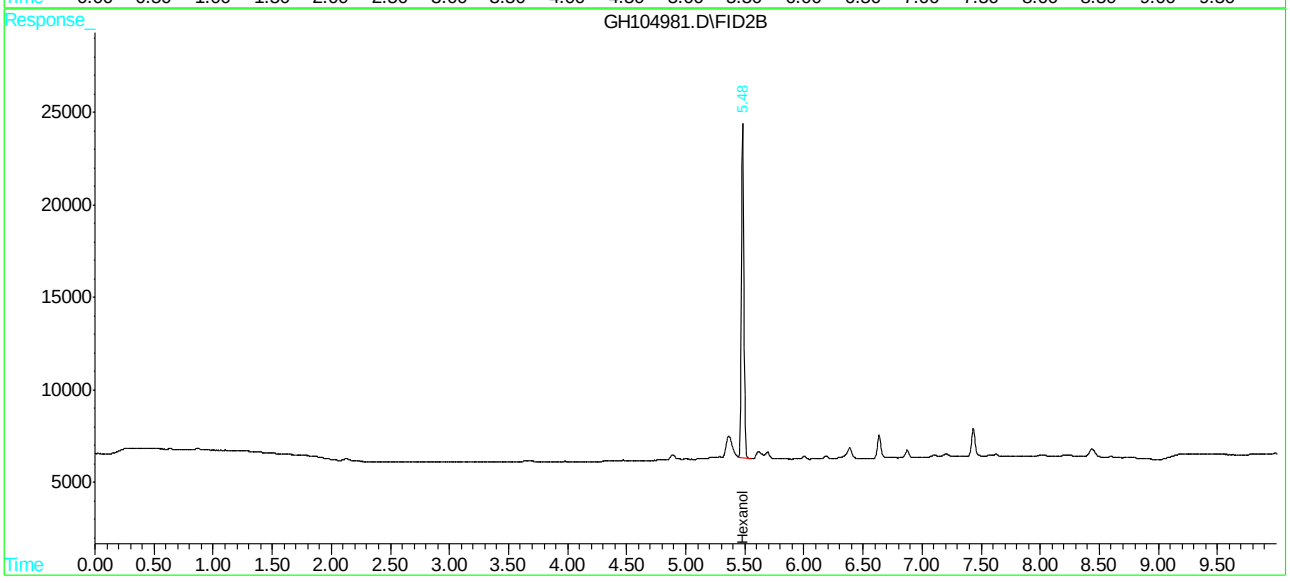
```
Data File : C:\HPCHEM\1\DATA\GH104981.D\FID1A.CH          Vial: 91
Acq On    : 16 May 2016   9:36 pm                     Operator: XULIU
Sample    : MB3                                       Inst    : GCGH
Misc      : GC48422,GGH5285,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH104981.D\FID2B.CH          Vial: 91
Acq On    : 16 May 2016   9:58 pm                     Operator: XULIU
Sample    : MB3                                       Inst    : GCGH
Misc      : GC48422,GGH5285,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 17  8:23 2016  Quant Results File: MGH5269.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5269.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Tue May 17 07:48:39 2016
Response via : Multiple Level Calibration
DataAcq Meth : MGH5269.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```





Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH105055.D\FID1A.CH          Vial: 91
Acq On    : 18 May 2016   4:03 pm                     Operator: XULIU
Sample    : MB2                                       Inst    : GCGH
Misc      : GC48426,GGH5290,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105055.D\FID2B.CH          Vial: 91
Acq On    : 18 May 2016   4:18 pm                     Operator: XULIU
Sample    : MB2                                       Inst    : GCGH
Misc      : GC48426,GGH5290,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 19  7:16 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Wed May 18 09:37:12 2016
Response via : Initial Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um

 Compound          RT#1   RT#2    Resp#1   Resp#2     PPB       PPB
---------------------------------------------------------------------

System Monitoring Compounds
9) S   Hexanol           5.56   5.50    302312   673720 4472.288  4336.857
 Spiked Amount   5000.000                 Recovery     =   89.45%    86.74%

Target Compounds
```

9.2.2

9

```
---------------------------------------------------------------------------
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40%  (m)=manual int.
GH105055.D  MGH5288.M      Thu May 19 07:31:59 2016      GCGH
```

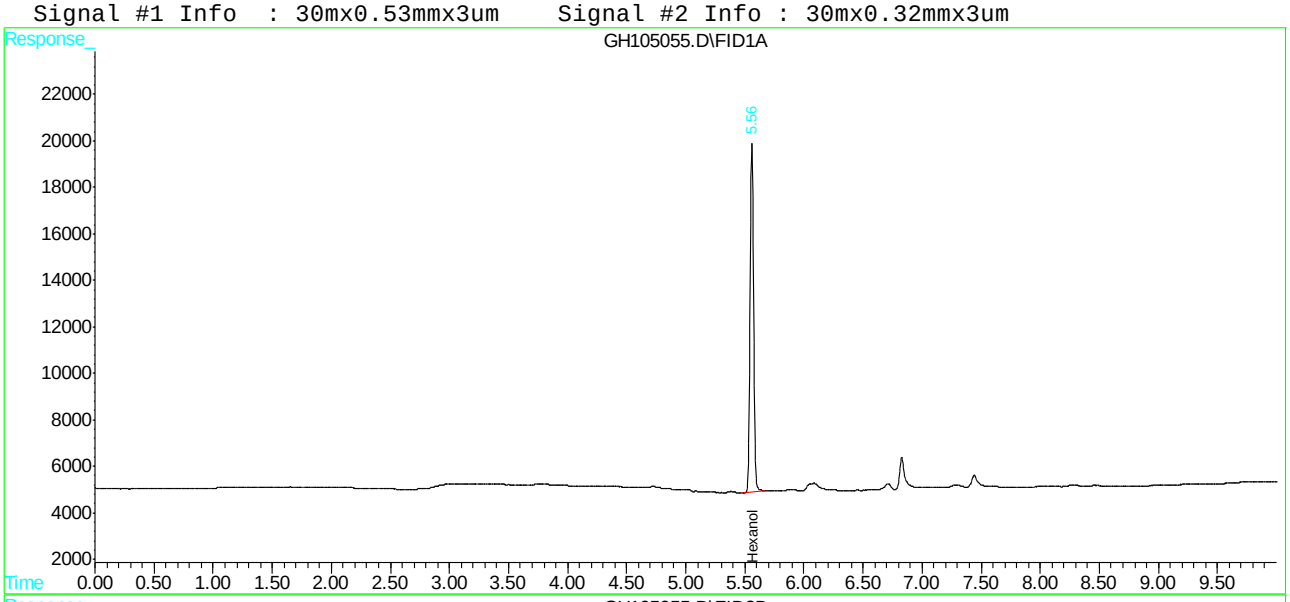
Quantitation Report (QT Reviewed)

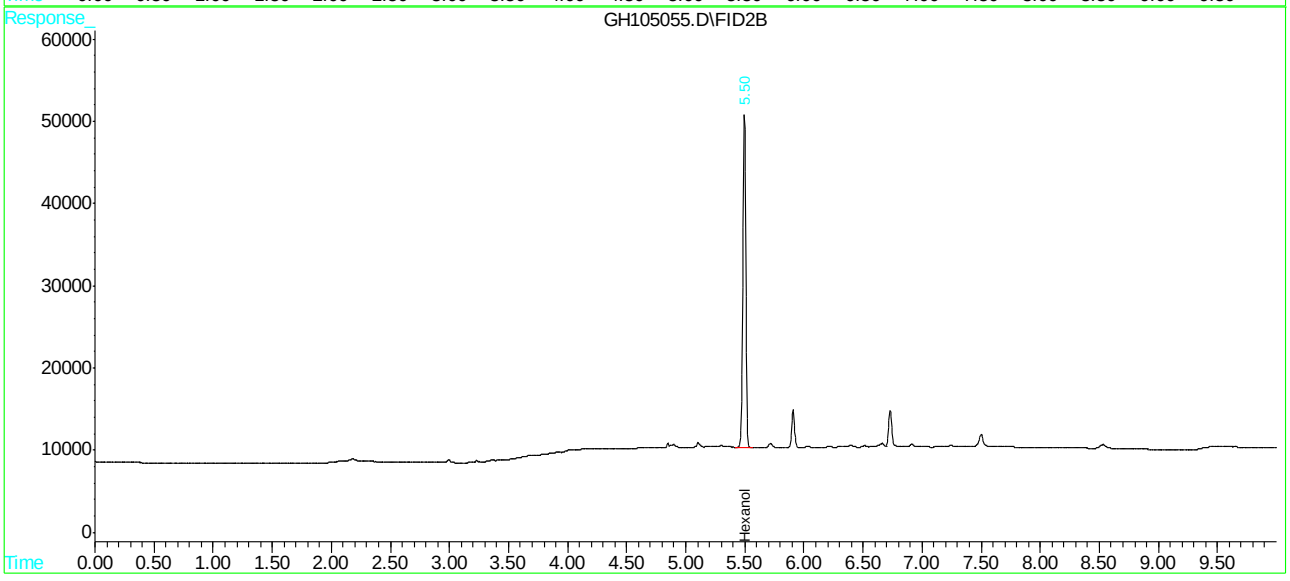
```
Data File : C:\HPCHEM\1\DATA\GH105055.D\FID1A.CH          Vial: 91
Acq On    : 18 May 2016   4:03 pm                     Operator: XULIU
Sample    : MB2                                       Inst    : GCGH
Misc      : GC48426,GGH5290,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105055.D\FID2B.CH          Vial: 91
Acq On    : 18 May 2016   4:18 pm                     Operator: XULIU
Sample    : MB2                                       Inst    : GCGH
Misc      : GC48426,GGH5290,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 19  7:16 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Wed May 18 09:37:12 2016
Response via : Multiple Level Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```





Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH104961.D\FID1A.CH          Vial: 91
Acq On    : 16 May 2016   4:06 pm                     Operator: XULIU
Sample    : MB1                                       Inst    : GCGH
Misc      : GC48420,GGH5285,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH104961.D\FID2B.CH          Vial: 91
Acq On    : 16 May 2016   4:28 pm                     Operator: XULIU
Sample    : MB1                                       Inst    : GCGH
Misc      : GC48420,GGH5285,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 17  7:39 2016  Quant Results File: MGH5269.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5269.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Tue May 17 07:24:13 2016
Response via : Initial Calibration
DataAcq Meth : MGH5269.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
System Monitoring Compounds						
9) S Hexanol	5.60	5.48	398117	284089	5203.193	1726.210 #
Spiked Amount 5000.000			Recovery	=	104.06%	34.52%
Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

SGS ACCUTEST JC20098

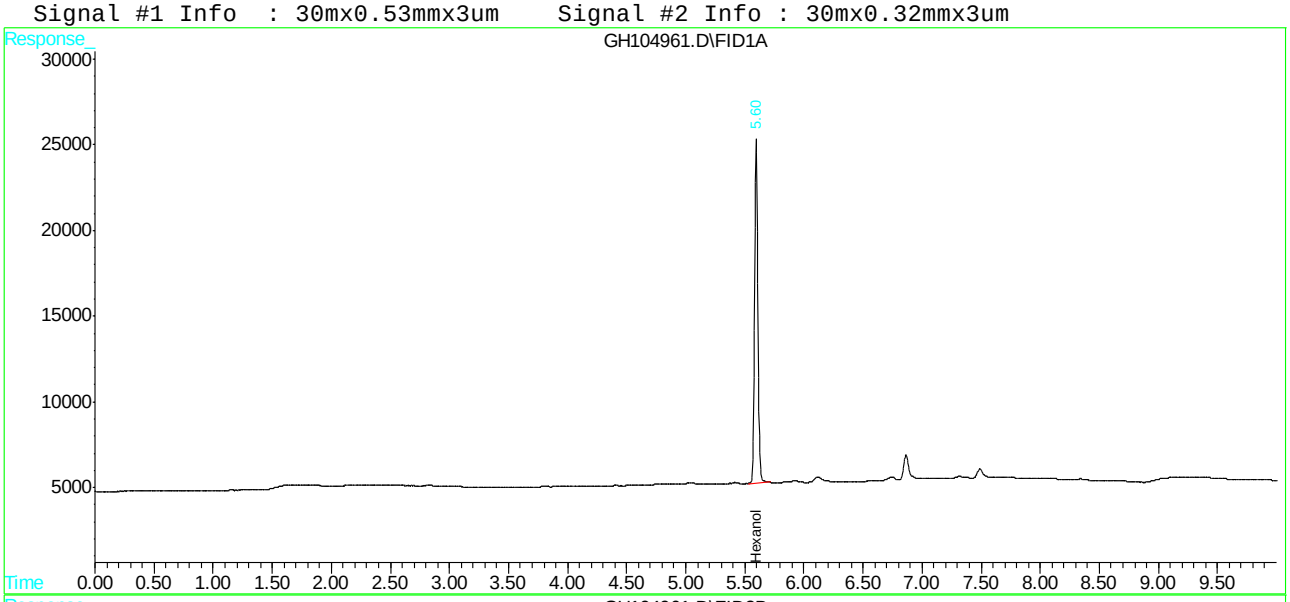
Quantitation Report (QT Reviewed)

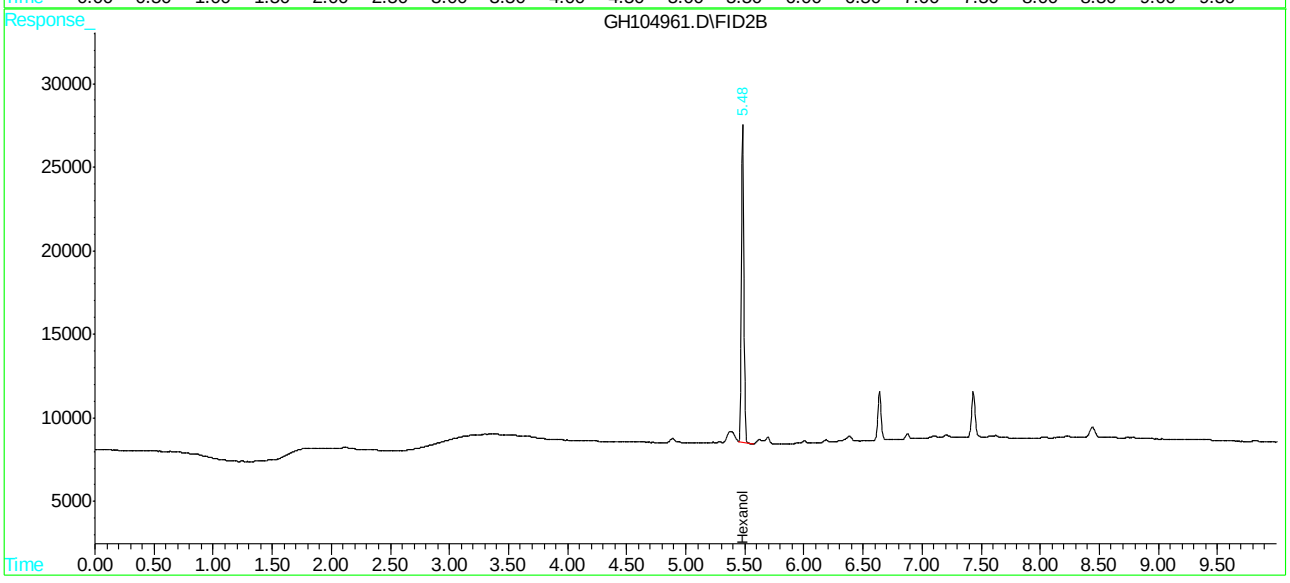
```
Data File : C:\HPCHEM\1\DATA\GH104961.D\FID1A.CH          Vial: 91
Acq On    : 16 May 2016   4:06 pm                     Operator: XULIU
Sample    : MB1                                       Inst    : GCGH
Misc      : GC48420,GGH5285,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH104961.D\FID2B.CH          Vial: 91
Acq On    : 16 May 2016   4:28 pm                     Operator: XULIU
Sample    : MB1                                       Inst    : GCGH
Misc      : GC48420,GGH5285,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 17  7:39 2016  Quant Results File: MGH5269.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5269.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Tue May 17 07:24:13 2016
Response via : Multiple Level Calibration
DataAcq Meth : MGH5269.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```





Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH105050.D\FID1A.CH          Vial: 91
Acq On    : 18 May 2016   2:42 pm                     Operator: XULIU
Sample    : MB1                                       Inst    : GCGH
Misc      : GC48425,GGH5290,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105050.D\FID2B.CH          Vial: 91
Acq On    : 18 May 2016   2:58 pm                     Operator: XULIU
Sample    : MB1                                       Inst    : GCGH
Misc      : GC48425,GGH5290,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 19  7:16 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Wed May 18 09:37:12 2016
Response via : Initial Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um

 Compound          RT#1   RT#2    Resp#1   Resp#2     PPB       PPB
---------------------------------------------------------------------

System Monitoring Compounds
9) S   Hexanol          5.56   5.50    304202   672098 4500.252  4326.419
 Spiked Amount   5000.000                 Recovery     =   90.01%    86.53%

Target Compounds
```

9.2.4

9

```
---------------------------------------------------------------------------
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40%  (m)=manual int.
GH105050.D  MGH5288.M      Thu May 19 07:30:41 2016      GCGH
```

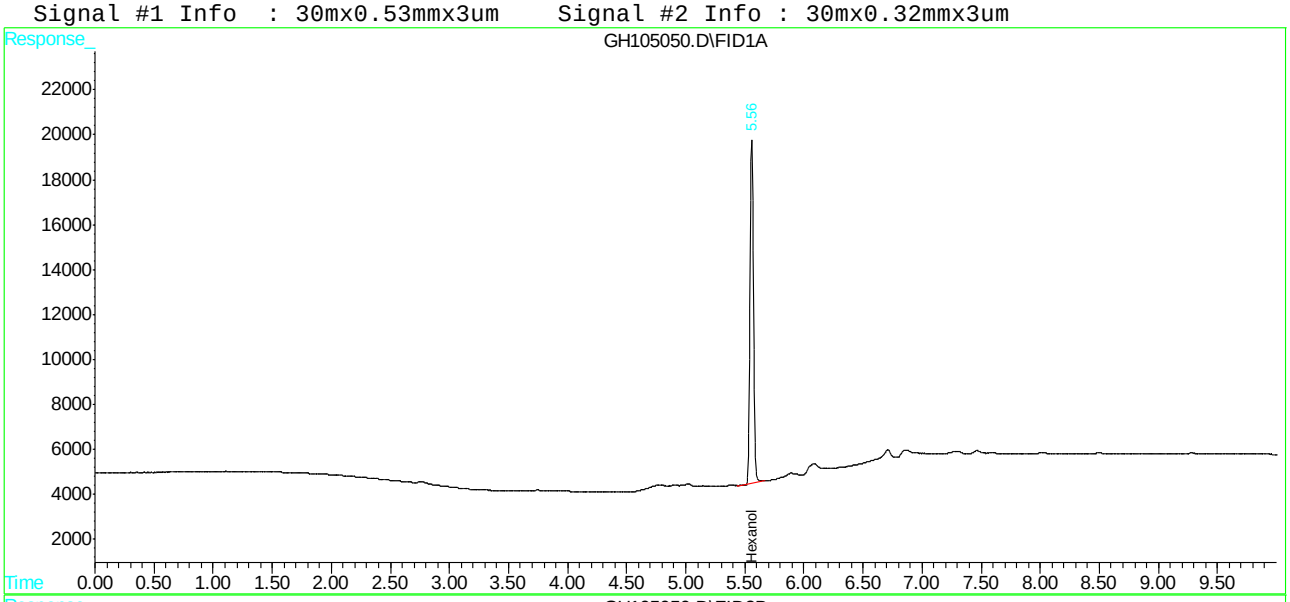
Quantitation Report (QT Reviewed)

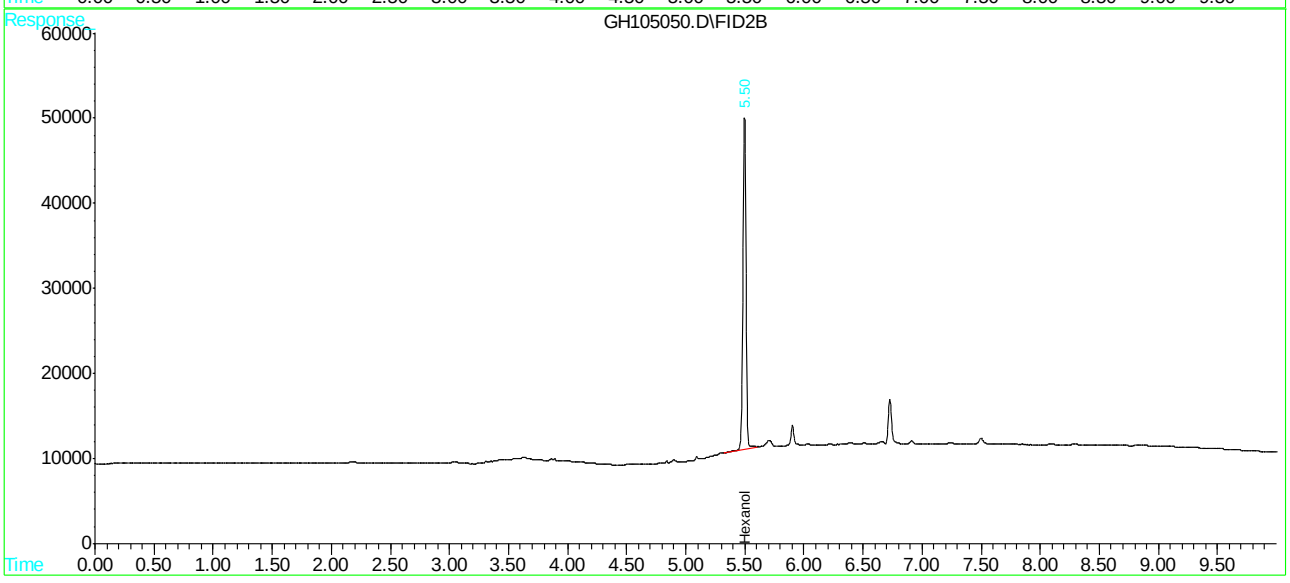
```
Data File : C:\HPCHEM\1\DATA\GH105050.D\FID1A.CH          Vial: 91
Acq On    : 18 May 2016   2:42 pm                     Operator: XULIU
Sample    : MB1                                       Inst    : GCGH
Misc      : GC48425,GGH5290,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105050.D\FID2B.CH          Vial: 91
Acq On    : 18 May 2016   2:58 pm                     Operator: XULIU
Sample    : MB1                                       Inst    : GCGH
Misc      : GC48425,GGH5290,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 19  7:16 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Wed May 18 09:37:12 2016
Response via : Multiple Level Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```





Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH104962.D\FID1A.CH          Vial: 92
Acq On    : 16 May 2016   4:28 pm                     Operator: XULIU
Sample    : BS                                        Inst    : GCGH
Misc      : GC48420,GGH5285,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH104962.D\FID2B.CH          Vial: 92
Acq On    : 16 May 2016   4:45 pm                     Operator: XULIU
Sample    : BS                                        Inst    : GCGH
Misc      : GC48420,GGH5285,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 17  7:38 2016  Quant Results File: MGH5269.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5269.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Tue May 17 07:24:13 2016
Response via : Initial Calibration
DataAcq Meth : MGH5269.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
9) S	Hexanol	5.60	5.48	439726	309830	5746.997	1882.618 #
Spiked Amount	5000.000			Recovery	=	114.94%	37.65%
	Target Compounds						
1)	Methanol	1.15	0.86	71026	57960	4809.159	2851.105 #
2)	Ethanol	1.49	1.11	103628	73446	5537.932	2311.507 #
3)	Tert-Butyl Alcoh	2.07	1.60	194353	120481	7118.284	1845.234 #
4)	1-Propanol	2.56	1.94	135960	120368	6100.301	2443.009 #
5)	2-Propanol	1.80	1.37f	180447	81610	8696.137	1952.102 #
6)	Isobutanol	3.36	2.89	167811	108711	6105.202	1752.384 #
7)	1-Butanol	3.80	3.38	154708	127417	6318.080	2461.364 #
8)	2-Butanol	2.99	2.51f	138399	101020	5492.386	2044.341 #

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

SGS ACCUTEST JC20098

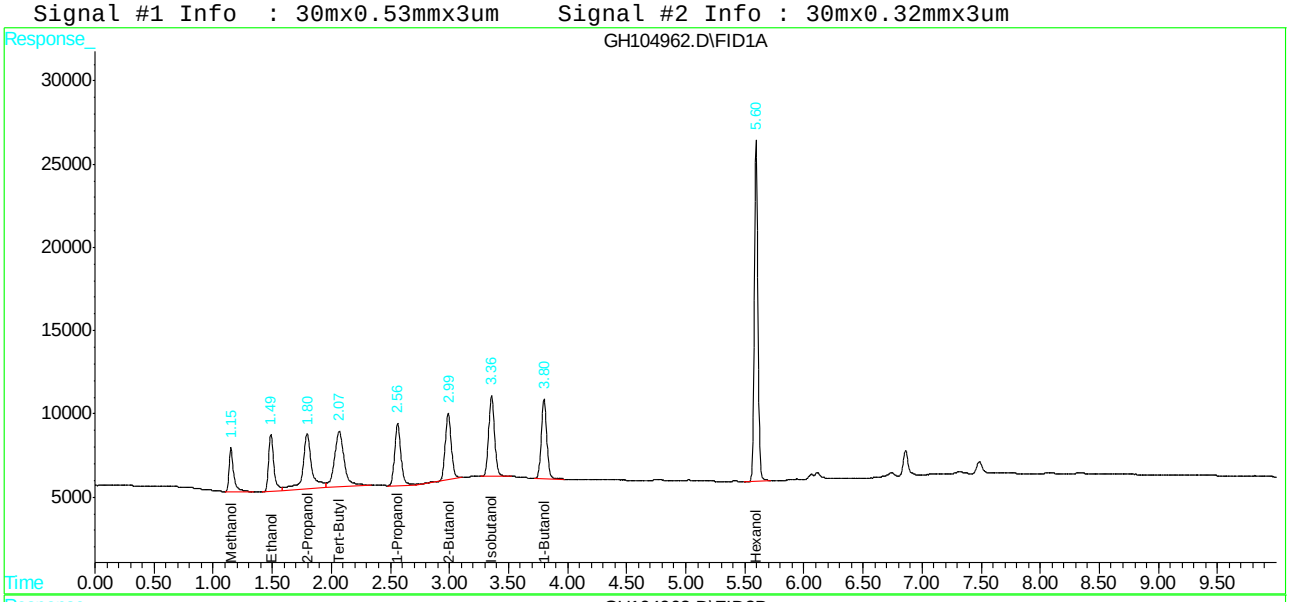
Quantitation Report (QT Reviewed)

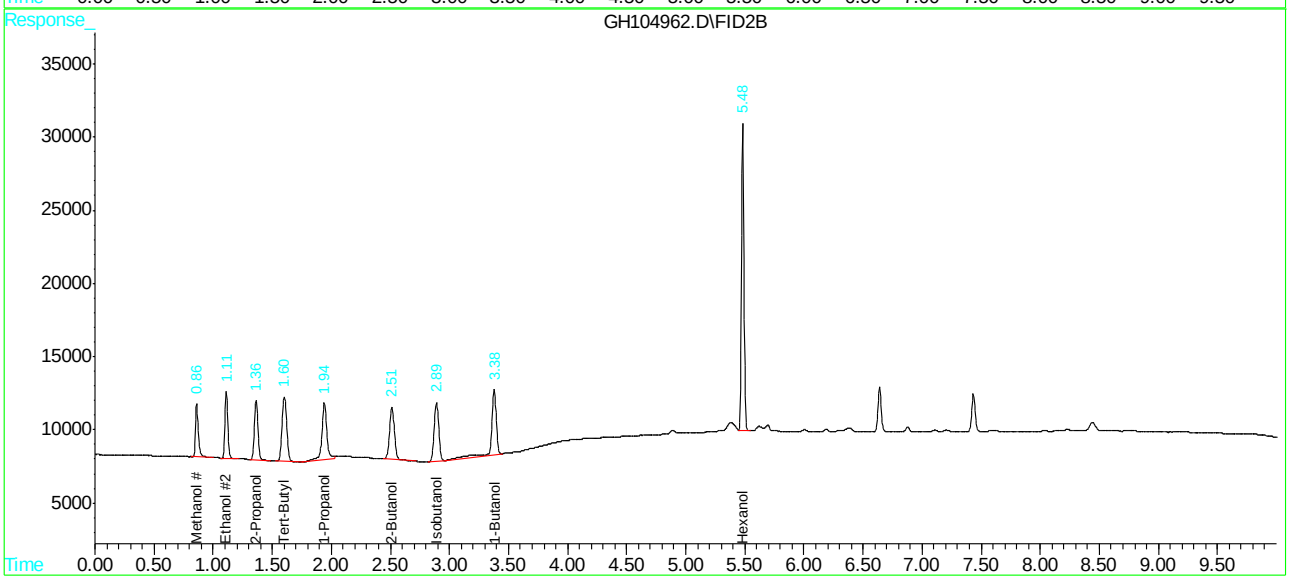
```
Data File : C:\HPCHEM\1\DATA\GH104962.D\FID1A.CH          Vial: 92
Acq On    : 16 May 2016   4:28 pm                     Operator: XULIU
Sample    : BS                                        Inst    : GCGH
Misc      : GC48420,GGH5285,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH104962.D\FID2B.CH          Vial: 92
Acq On    : 16 May 2016   4:45 pm                     Operator: XULIU
Sample    : BS                                        Inst    : GCGH
Misc      : GC48420,GGH5285,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 17  7:38 2016  Quant Results File: MGH5269.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5269.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Tue May 17 07:24:13 2016
Response via : Multiple Level Calibration
DataAcq Meth : MGH5269.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```





Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH105051.D\FID1A.CH          Vial: 92
Acq On    : 18 May 2016   2:58 pm                     Operator: XULIU
Sample    : BS                                        Inst    : GCGH
Misc      : GC48425,GGH5290,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105051.D\FID2B.CH          Vial: 92
Acq On    : 18 May 2016   3:13 pm                     Operator: XULIU
Sample    : BS                                        Inst    : GCGH
Misc      : GC48425,GGH5290,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 19  7:18 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Wed May 18 09:37:12 2016
Response via : Initial Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
9) S	Hexanol	5.56	5.50	331713	735813	4907.236	4736.560
	Spiked Amount 5000.000			Recovery	=	98.14%	94.73%
	Target Compounds						
1)	Methanol	1.11	0.91	76338	155204	4938.195	4811.899
2)	Ethanol	1.44	1.16	99507	198781	5250.978	4986.853
3)	Tert-Butyl Alcoh	2.00	1.65	144637	323706	5104.554	5091.080
4)	1-Propanol	2.50	2.01	129150	258222	5309.109	5078.862
5)	2-Propanol	1.74	1.41	104714	226653	5253.818	5005.689
6)	Isobutanol	3.30	2.94	141712	297186	4925.527	4854.304
7)	1-Butanol	3.75	3.42	146123	282625	5116.251	4271.194
8)	2-Butanol	2.93	2.57	131140	317642	5115.785	5851.450

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

SGS ACCUTEST JC20098

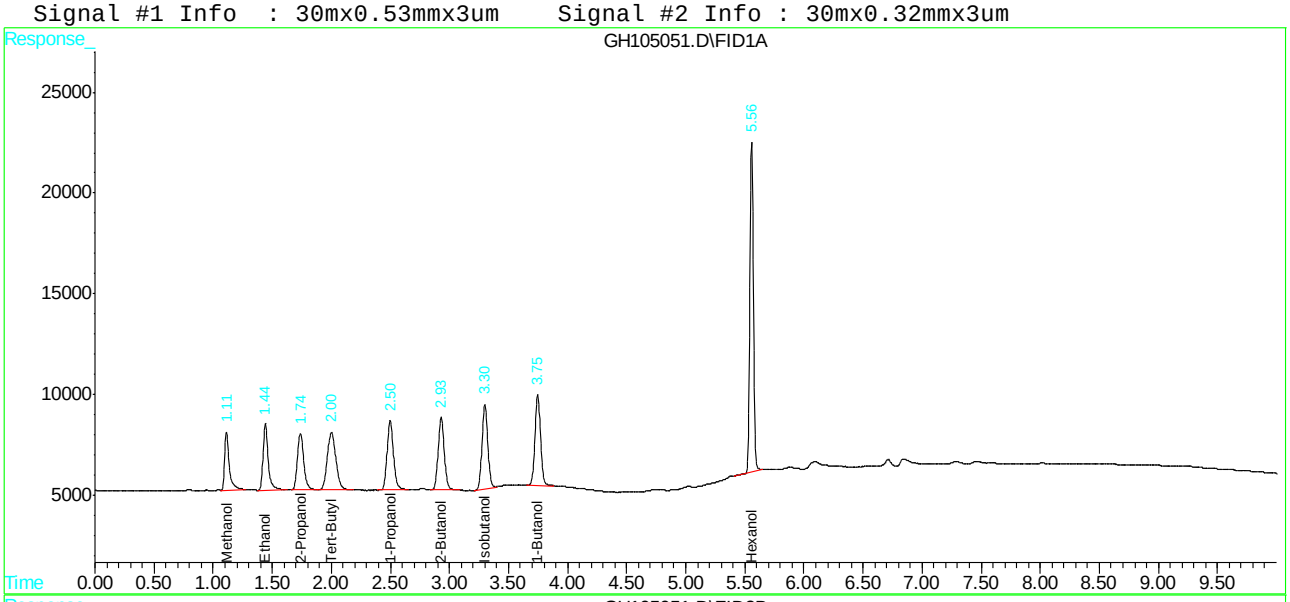
Quantitation Report (QT Reviewed)

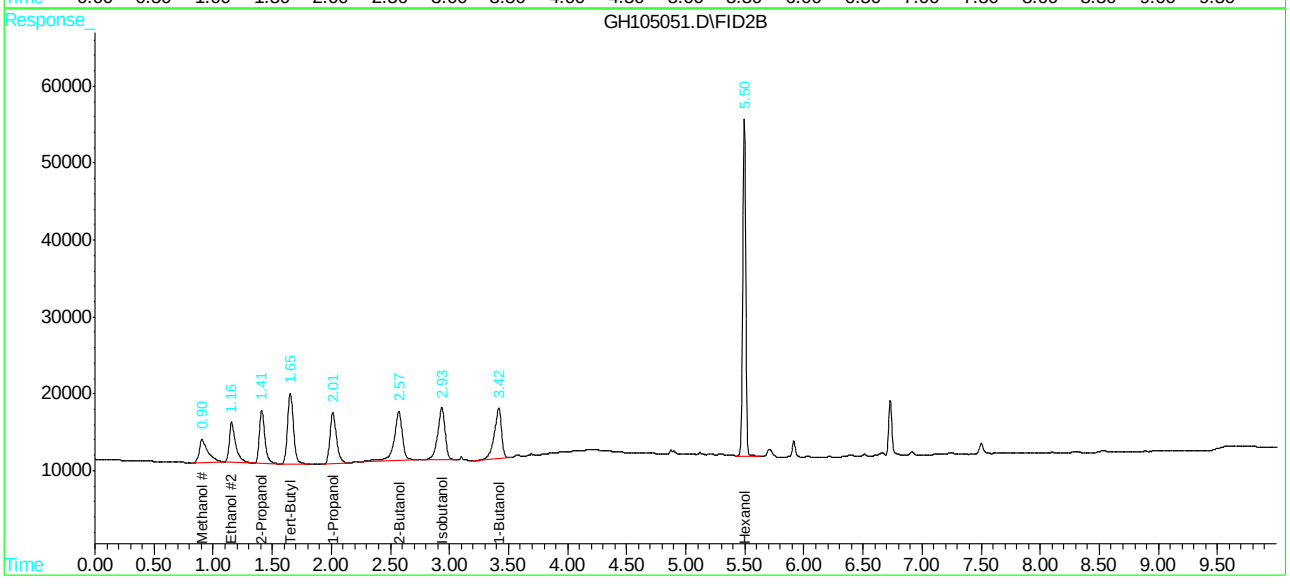
```
Data File : C:\HPCHEM\1\DATA\GH105051.D\FID1A.CH          Vial: 92
Acq On    : 18 May 2016   2:58 pm                     Operator: XULIU
Sample    : BS                                        Inst    : GCGH
Misc      : GC48425,GGH5290,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105051.D\FID2B.CH          Vial: 92
Acq On    : 18 May 2016   3:13 pm                     Operator: XULIU
Sample    : BS                                        Inst    : GCGH
Misc      : GC48425,GGH5290,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 19  7:18 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Wed May 18 09:37:12 2016
Response via : Multiple Level Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```





SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH104964.D\FID1A.CH          Vial: 2
Acq On    : 16 May 2016   4:57 pm                     Operator: XULIU
Sample    : JC19644-1MS                               Inst    : GCGH
Misc      : GC48420,GGH5285,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH104964.D\FID2B.CH          Vial: 2
Acq On    : 16 May 2016   5:12 pm                     Operator: XULIU
Sample    : JC19644-1MS                               Inst    : GCGH
Misc      : GC48420,GGH5285,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 17  7:46 2016  Quant Results File: MGH5269.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5269.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Tue May 17 07:46:40 2016
Response via : Initial Calibration
DataAcq Meth : MGH5269.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB	
	System Monitoring Compounds							
9) S	Hexanol	5.60	5.48	423617	291848	5536.460	1773.354	#
	Spiked Amount 5000.000			Recovery	=	110.73%	35.47%	
	Target Compounds							
1)	Methanol	1.15	0.86	72720	61380	4923.823	3019.335	
2)	Ethanol	1.49	1.12	107138	75953	5725.512	2390.398	#
3)	Tert-Butyl Alcoh	2.07	1.61	171758	124596	6290.720	1908.250	#
4)	1-Propanol	2.56	1.95	138985	118086	6236.037	2396.694	#
5)	2-Propanol	1.79	1.37f	107581	84259	5184.591	2015.454	#
6)	Isobutanol	3.35	2.89	174938	115275	6364.513	1858.191	#
7)	1-Butanol	3.80	3.38	164381	109032	6713.099	2106.225	#
8)	2-Butanol	2.99	2.52	145573	101789	5777.092	2059.904	#

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

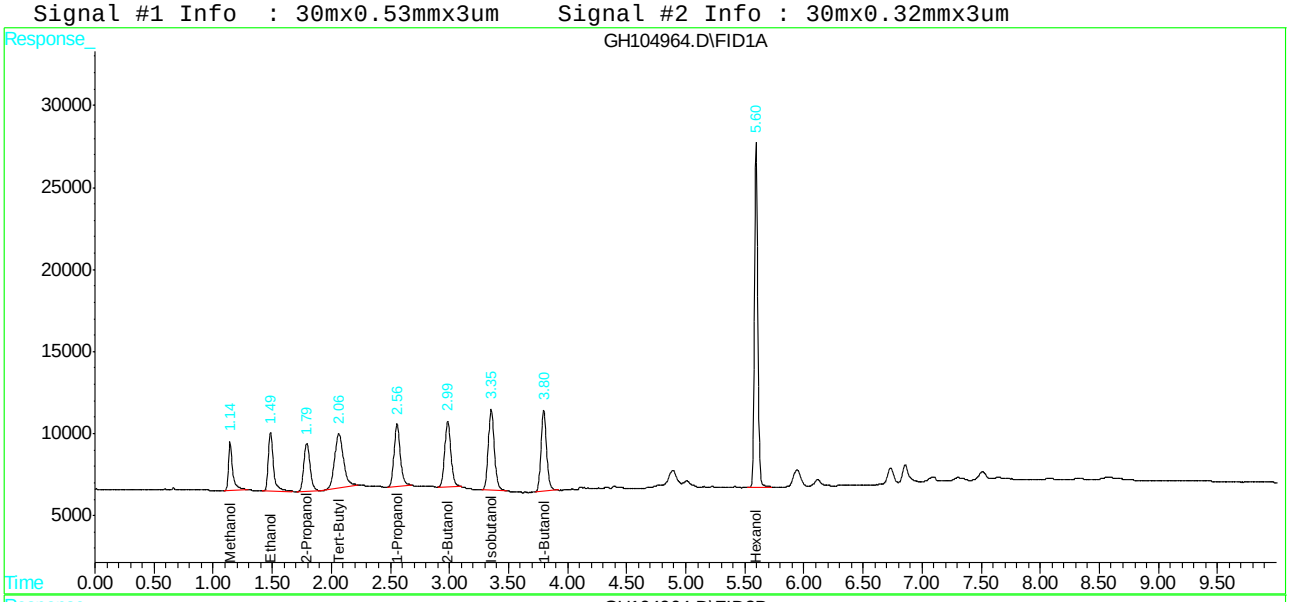
Quantitation Report (QT Reviewed)

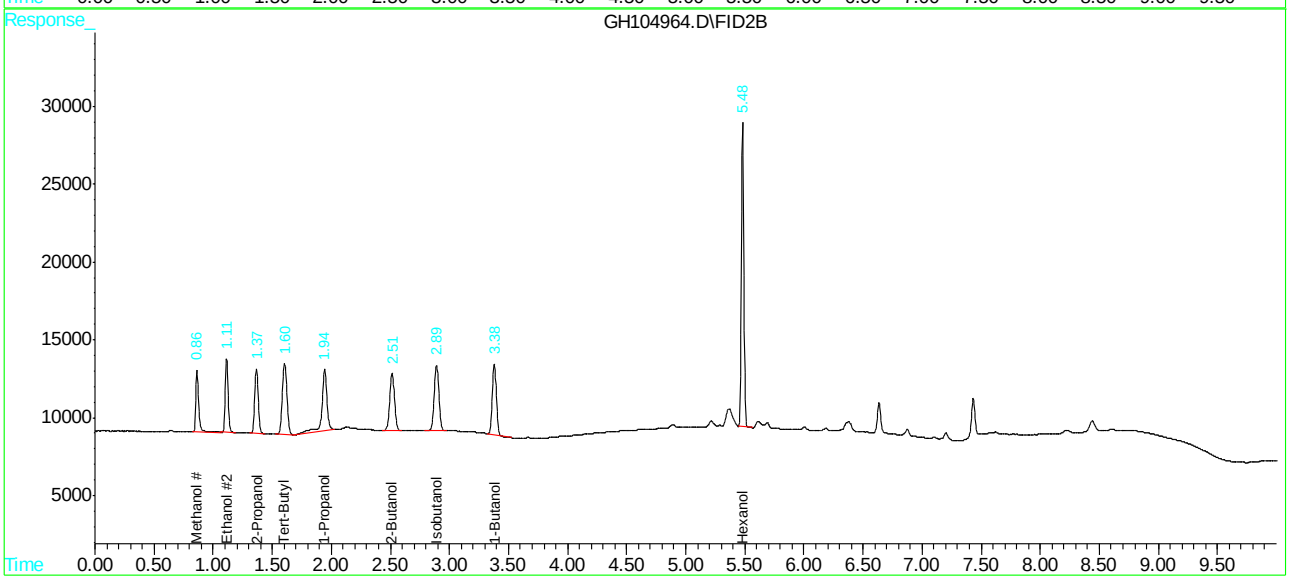
```
Data File : C:\HPCHEM\1\DATA\GH104964.D\FID1A.CH          Vial: 2
Acq On    : 16 May 2016   4:57 pm                     Operator: XULIU
Sample    : JC19644-1MS                               Inst    : GCGH
Misc      : GC48420,GGH5285,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH104964.D\FID2B.CH          Vial: 2
Acq On    : 16 May 2016   5:12 pm                     Operator: XULIU
Sample    : JC19644-1MS                               Inst    : GCGH
Misc      : GC48420,GGH5285,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 17  7:46 2016  Quant Results File: MGH5269.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5269.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Tue May 17 07:46:40 2016
Response via : Multiple Level Calibration
DataAcq Meth : MGH5269.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```





SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH104965.D\FID1A.CH          Vial: 3
Acq On    : 16 May 2016   5:12 pm                     Operator: XULIU
Sample    : JC19644-1MSD                              Inst    : GCGH
Misc      : GC48420,GGH5285,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH104965.D\FID2B.CH          Vial: 3
Acq On    : 16 May 2016   5:30 pm                     Operator: XULIU
Sample    : JC19644-1MSD                              Inst    : GCGH
Misc      : GC48420,GGH5285,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 17  7:47 2016  Quant Results File: MGH5269.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5269.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Tue May 17 07:46:40 2016
Response via : Initial Calibration
DataAcq Meth : MGH5269.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB	
	System Monitoring Compounds							
9) S	Hexanol	5.60	5.48	431149	292567	5634.903	1777.727	#
Spiked Amount	5000.000			Recovery	=	112.70%	35.55%	
	Target Compounds							
1)	Methanol	1.15	0.86	73375	62227	4968.163	3061.026	
2)	Ethanol	1.49	1.11	109011	75678	5825.598	2381.731	#
3)	Tert-Butyl Alcoh	2.07	1.60	169876	125262	6221.802	1918.451	#
4)	1-Propanol	2.56	1.94f	150011	99591	6730.745	2021.302	#
5)	2-Propanol	1.79	1.36f	122453	84591	5901.293	2023.395	#
6)	Isobutanol	3.35	2.89	182004	115401	6621.580	1860.232	#
7)	1-Butanol	3.80	3.38	168796	109734	6893.405	2119.783	#
8)	2-Butanol	2.99	2.51f	153419	102611	6088.456	2076.538	#

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

GH104965.D MGH5269.M Tue May 17 07:50:34 2016 GCGH

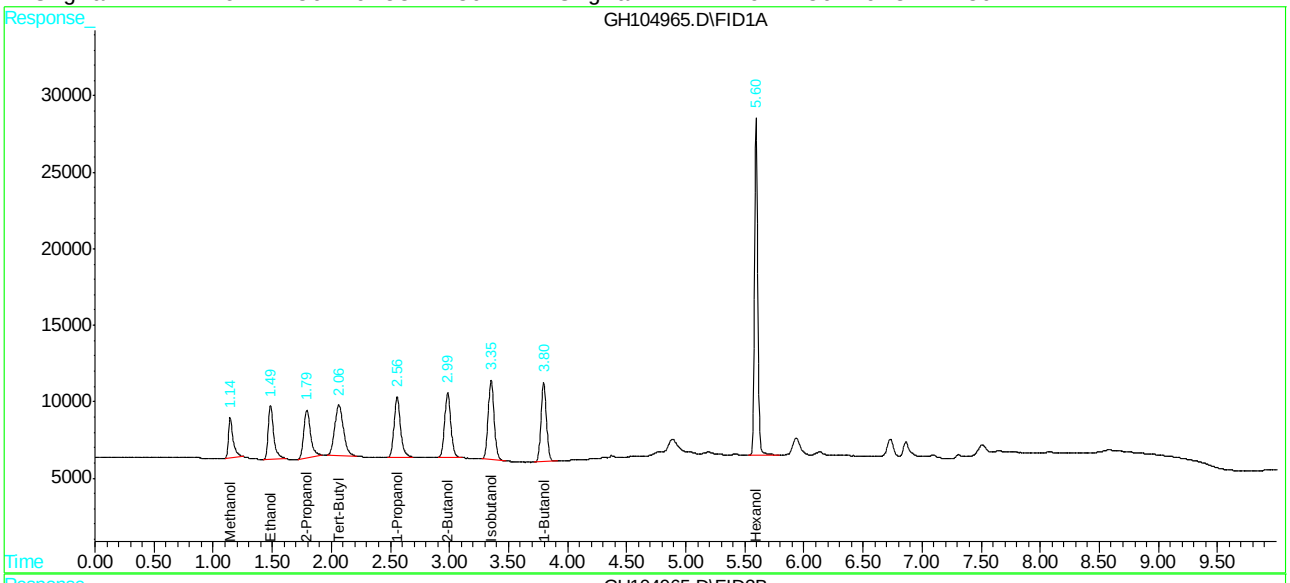
Quantitation Report (QT Reviewed)

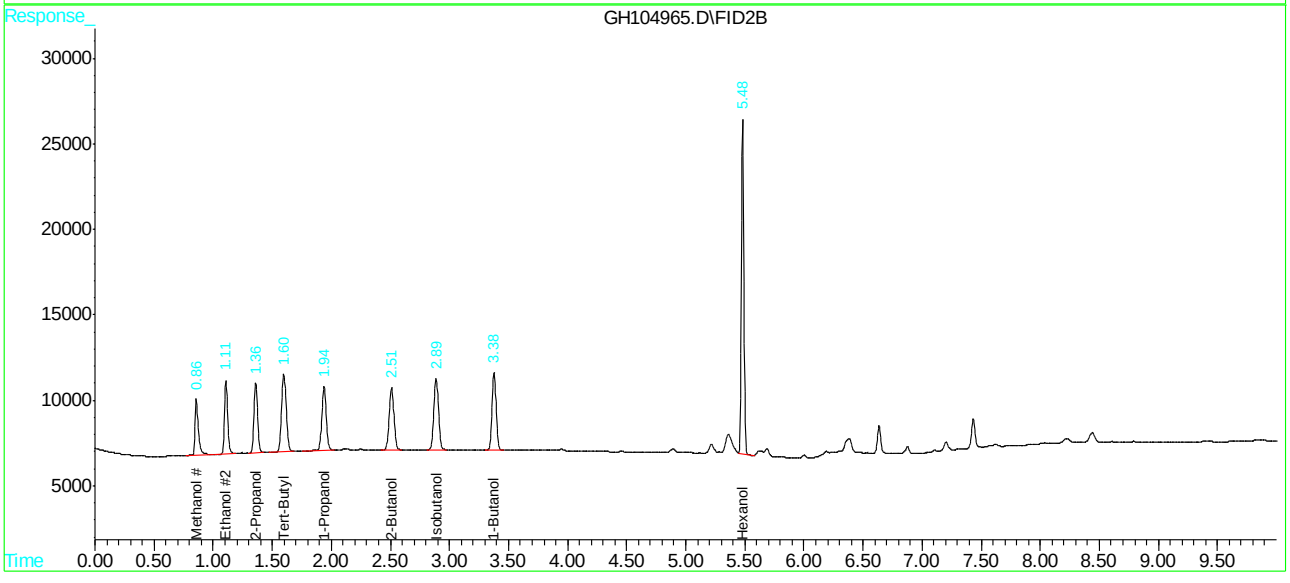
```
Data File : C:\HPCHEM\1\DATA\GH104965.D\FID1A.CH          Vial: 3
Acq On    : 16 May 2016   5:12 pm                     Operator: XULIU
Sample    : JC19644-1MSD                              Inst    : GCGH
Misc      : GC48420,GGH5285,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH104965.D\FID2B.CH          Vial: 3
Acq On    : 16 May 2016   5:30 pm                     Operator: XULIU
Sample    : JC19644-1MSD                              Inst    : GCGH
Misc      : GC48420,GGH5285,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 17  7:47 2016  Quant Results File: MGH5269.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5269.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Tue May 17 07:46:40 2016
Response via : Multiple Level Calibration
DataAcq Meth : MGH5269.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```





SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH105057.D\FID1A.CH          Vial: 2
Acq On    : 18 May 2016   4:40 pm                     Operator: XULIU
Sample    : JC19914-2MS                               Inst    : GCGH
Misc      : GC48426,GGH5290,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105057.D\FID2B.CH          Vial: 2
Acq On    : 18 May 2016   4:54 pm                     Operator: XULIU
Sample    : JC19914-2MS                               Inst    : GCGH
Misc      : GC48426,GGH5290,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 19  7:23 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Thu May 19 07:23:13 2016
Response via : Initial Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
9) S	Hexanol	5.56	5.50	302457	680318	4474.429	4379.330
Spiked Amount	5000.000			Recovery	=	89.49%	87.59%
	Target Compounds						
1)	Methanol	1.09	0.89	69828	156607	4517.047	4855.384
2)	Ethanol	1.42	1.15	93756	202024	4947.473	5068.226
3)	Tert-Butyl Alcoh	1.98	1.65	137454	327161	4851.050	5145.421
4)	1-Propanol	2.48	2.00	125316	263494	5151.500	5182.548
5)	2-Propanol	1.72	1.40	97304	218396	4882.012	4823.334
6)	Isobutanol	3.29	2.94	153867	304710	5347.993	4977.194
7)	1-Butanol	3.74	3.41	139374	289772	4879.922	4379.209
8)	2-Butanol	2.92	2.57	127604	279095	4977.847	5141.355

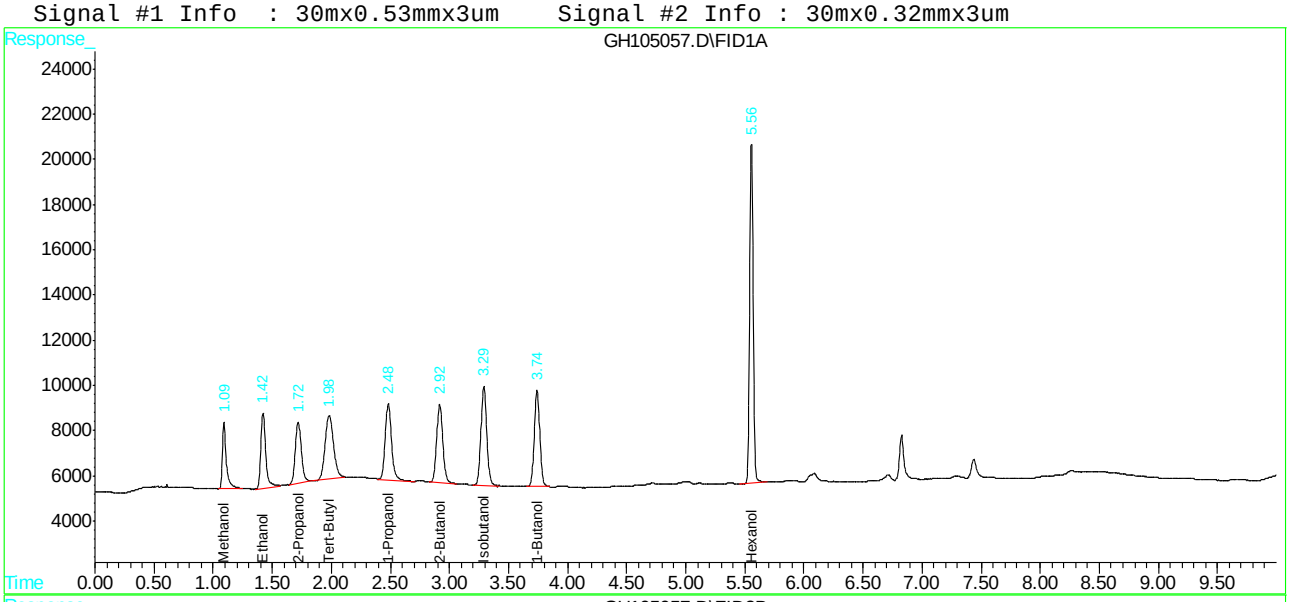
Quantitation Report (QT Reviewed)

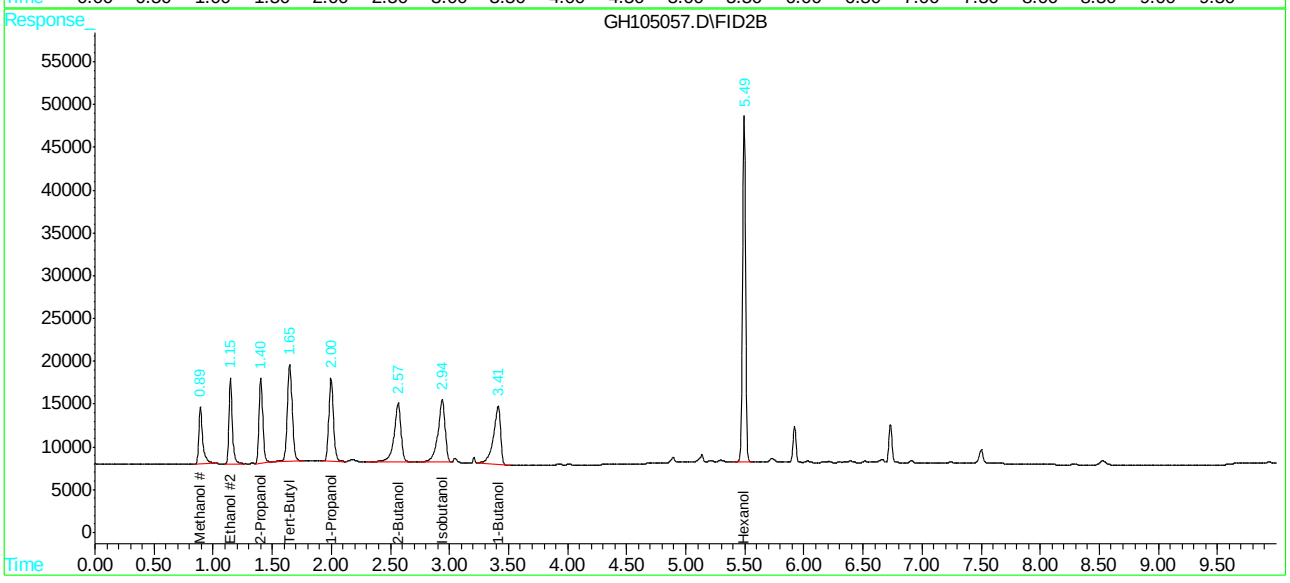
```
Data File : C:\HPCHEM\1\DATA\GH105057.D\FID1A.CH          Vial: 2
Acq On    : 18 May 2016   4:40 pm                     Operator: XULIU
Sample    : JC19914-2MS                               Inst    : GCGH
Misc      : GC48426,GGH5290,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105057.D\FID2B.CH          Vial: 2
Acq On    : 18 May 2016   4:54 pm                     Operator: XULIU
Sample    : JC19914-2MS                               Inst    : GCGH
Misc      : GC48426,GGH5290,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 19  7:23 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Thu May 19 07:23:13 2016
Response via : Multiple Level Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```





Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH105058.D\FID1A.CH          Vial: 3
Acq On    : 18 May 2016   4:54 pm                     Operator: XULIU
Sample    : JC19914-2MSD                              Inst    : GCGH
Misc      : GC48426,GGH5290,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105058.D\FID2B.CH          Vial: 3
Acq On    : 18 May 2016   5:08 pm                     Operator: XULIU
Sample    : JC19914-2MSD                              Inst    : GCGH
Misc      : GC48426,GGH5290,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 19  7:23 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Thu May 19 07:23:53 2016
Response via : Initial Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
System Monitoring Compounds						
9) S Hexanol	5.56	5.50	312519	705204	4623.287	4539.526
Spiked Amount 5000.000			Recovery	=	92.47%	90.79%
Target Compounds						
1) Methanol	1.11	0.90	70280	171919	4546.274	5330.134
2) Ethanol	1.44	1.15	94288	197666	4975.561	4958.899
3) Tert-Butyl Alcoh	2.00	1.65	141562	318534	4996.060	5009.744
4) 1-Propanol	2.50	2.00	126495	251812	5199.971	4952.795
5) 2-Propanol	1.74	1.41	100233	215446	5028.978	4758.175
6) Isobutanol	3.30	2.94	149864	299210	5208.857	4887.365
7) 1-Butanol	3.75	3.42	138845	284857	4861.420	4304.924
8) 2-Butanol	2.93	2.57	130747	268675	5100.438	4949.400

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

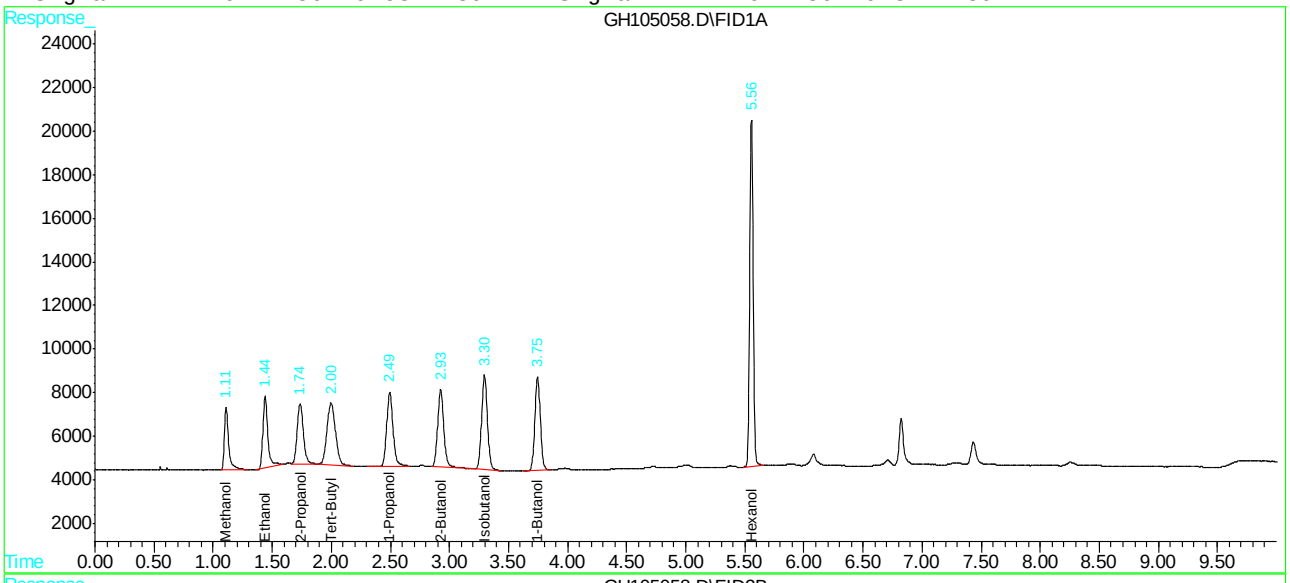
Quantitation Report (QT Reviewed)

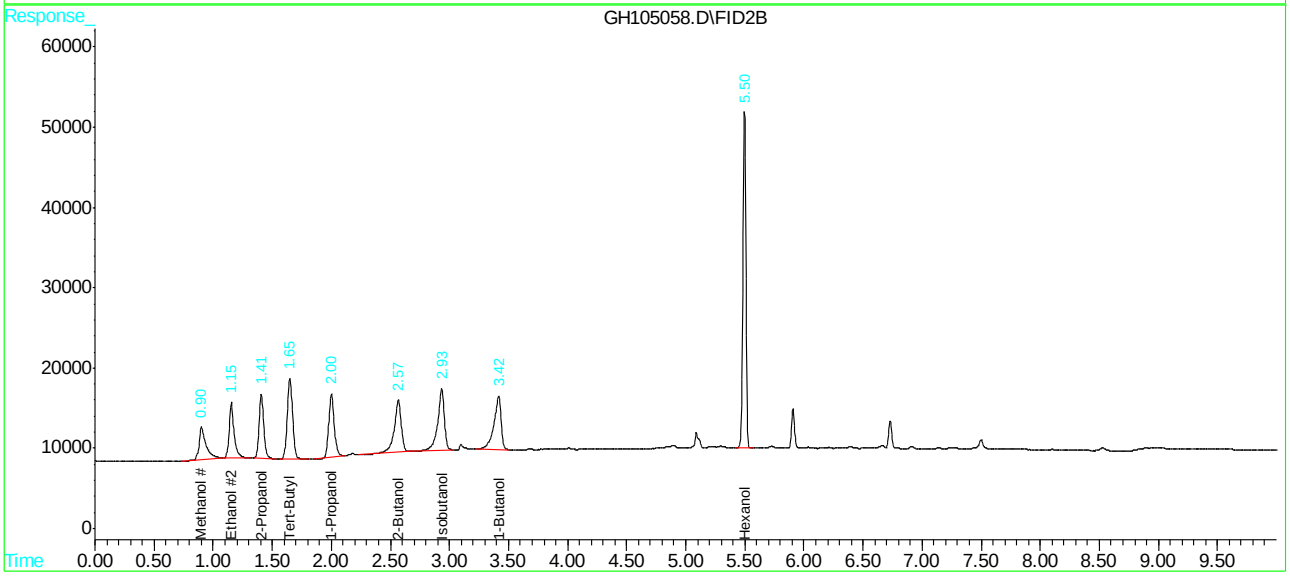
```
Data File : C:\HPCHEM\1\DATA\GH105058.D\FID1A.CH          Vial: 3
Acq On    : 18 May 2016   4:54 pm                     Operator: XULIU
Sample    : JC19914-2MSD                              Inst    : GCGH
Misc      : GC48426,GGH5290,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105058.D\FID2B.CH          Vial: 3
Acq On    : 18 May 2016   5:08 pm                     Operator: XULIU
Sample    : JC19914-2MSD                              Inst    : GCGH
Misc      : GC48426,GGH5290,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 19  7:23 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Thu May 19 07:23:53 2016
Response via : Multiple Level Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```





SGS ACCUTEST JC20098

Manual Integrations
APPROVED
(compounds with "m" flag)
Owen McKenna
05/10/16 12:49

Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH104674.D\FID1A.CH          Vial: 2
Acq On    :  9 May 2016   1:28 pm                     Operator: XULIU
Sample    : IC5269-100                                Inst    : GCGH
Misc      : GC48342,GGH5269,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH104674.D\FID2B.CH          Vial: 2
Acq On    :  9 May 2016   1:49 pm                     Operator: XULIU
Sample    : IC5269-100                                Inst    : GCGH
Misc      : GC48342,GGH5269,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 10 10:29 2016  Quant Results File: MGH5269.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5269.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Tue May 10 09:30:14 2016
Response via : Initial Calibration
DataAcq Meth : MGH5269.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
9) S	Hexanol	5.61	5.44	49985	112111	653.275	663.209
	Spiked Amount 5000.000			Recovery	=	13.07%	13.26%
	Target Compounds						
1)	Methanol	1.15	0.88	1614	2383	109.284	94.588
2)	Ethanol	1.50	1.13	1891	2911	101.049	88.894
3)	Tert-Butyl Alcoh	2.08	1.62	2661	6282	97.471	106.692
4)	1-Propanol	2.58f	1.96	1437	4687	56.648m	117.370 #
5)	2-Propanol	1.81	1.38	2379	4175	114.673	105.617
6)	Isobutanol	3.38	2.91	2339	6882	85.109	109.048
7)	1-Butanol	3.84	3.38	2288	5438	87.938m	102.310
8)	2-Butanol	3.00	2.53	2251	4806	89.595	104.191

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

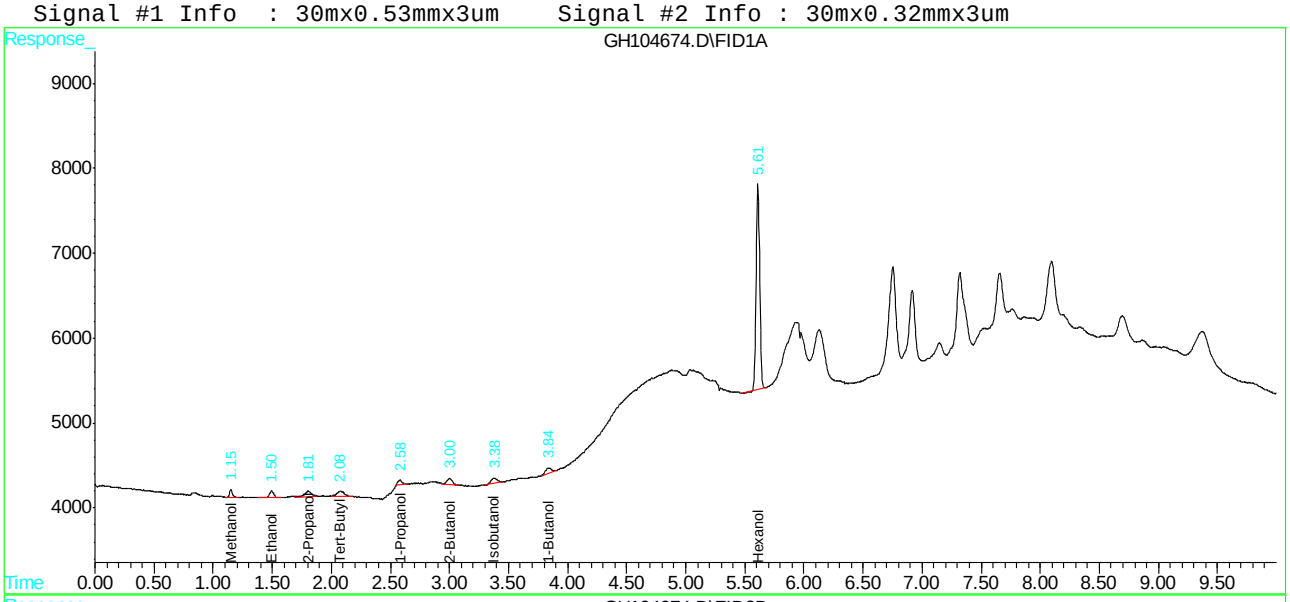
Quantitation Report (QT Reviewed)

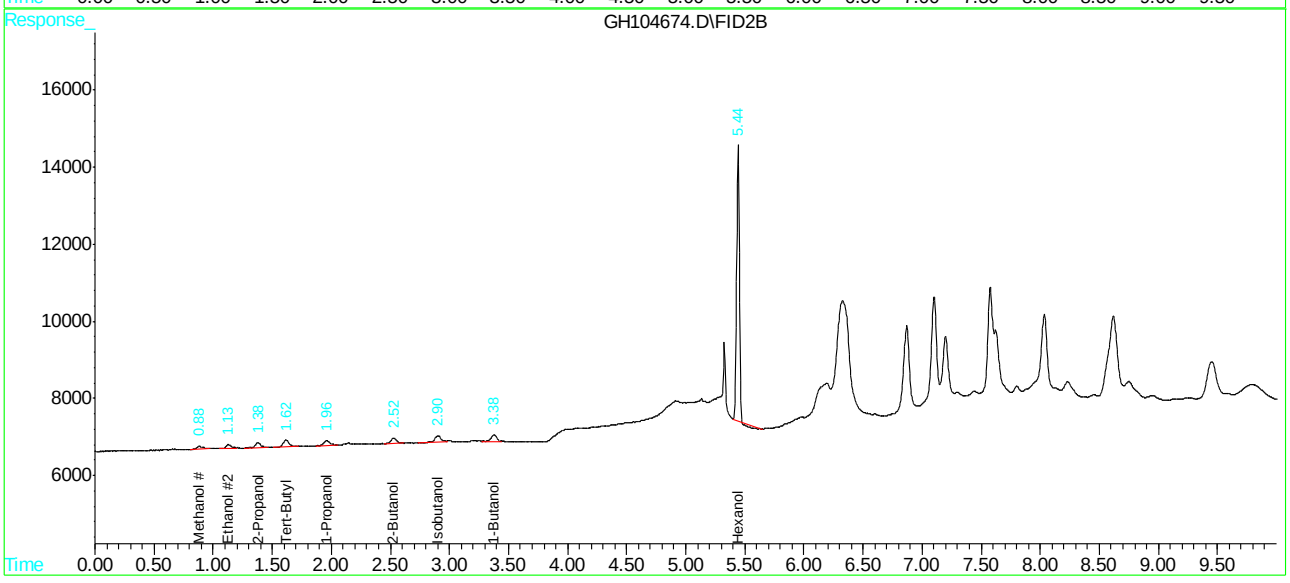
```
Data File : C:\HPCHEM\1\DATA\GH104674.D\FID1A.CH          Vial: 2
Acq On    :  9 May 2016   1:28 pm                     Operator: XULIU
Sample    : IC5269-100                                Inst    : GCGH
Misc      : GC48342,GGH5269,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH104674.D\FID2B.CH          Vial: 2
Acq On    :  9 May 2016   1:49 pm                     Operator: XULIU
Sample    : IC5269-100                                Inst    : GCGH
Misc      : GC48342,GGH5269,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 10 10:29 2016  Quant Results File: MGH5269.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5269.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Tue May 10 09:30:14 2016
Response via : Multiple Level Calibration
DataAcq Meth : MGH5269.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```





Manual Integration Approval Summary

Sample Number:	GGH5269-IC5269	**Method:**	SW846-8015C (DAI)
Lab FileID:	GH104674.D	**Analyst approved:**	05/10/16 10:51 Xu Liu
Injection Time:	05/09/16 13:28	**Supervisor approved:**	05/10/16 12:49 Owen McKenna

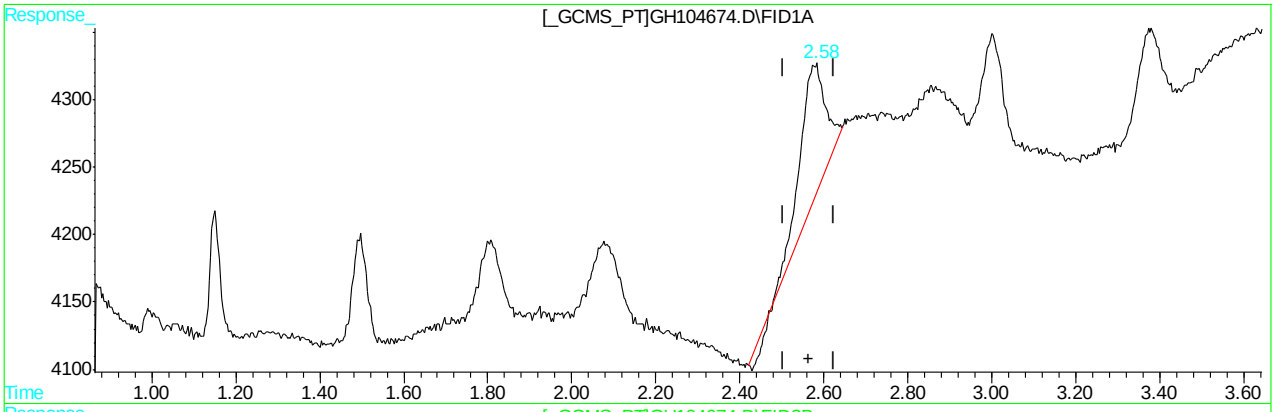
Parameter	CAS	Sig#	R.T. (min.)	Reason
n-Propyl Alcohol	71-23-8	1	2.58	Poor instrument integration
n-Butyl Alcohol	71-36-3	1	3.84	Poor instrument integration

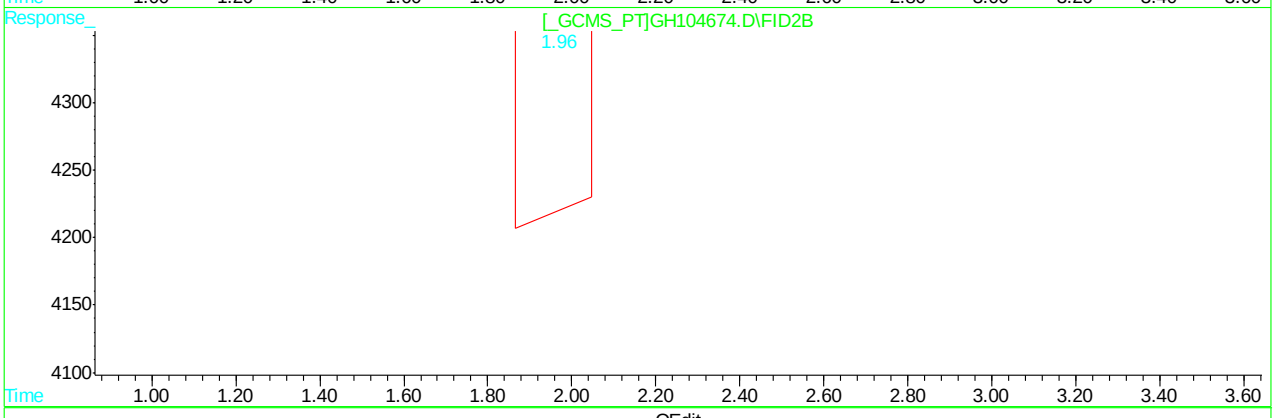
Quantitation Report (Qedit)

```
Data File : C:\HPCHEM\1\DATA\GH104674.D\FID1A.CH          Vial: 2
Acq On    :  9 May 2016   1:28 pm                     Operator: XULIU
Sample    : IC5269-100                                Inst    : GCGH
Misc      : GC48342,GGH5269,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH104674.D\FID2B.CH          Vial: 2
Acq On    :  9 May 2016   1:49 pm                     Operator: XULIU
Sample    : IC5269-100                                Inst    : GCGH
Misc      : GC48342,GGH5269,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 10  9:41 2016  Quant Results File: MGH5269.RES


Method       : C:\HPCHEM\1\METHODS\MGH5269.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Tue May 10 10:22:20 2016
Response via : Multiple Level Calibration
```





QEdit

(4) 1-Propanol

2.58min 150.557PPB

response 3820

(4) 1-Propanol #2

1.96min 117.370PPB

response 4687

(+) = Expected Retention Time

GH104674.D MGH5269.M Tue May 10 10:24:42 2016 GCGH

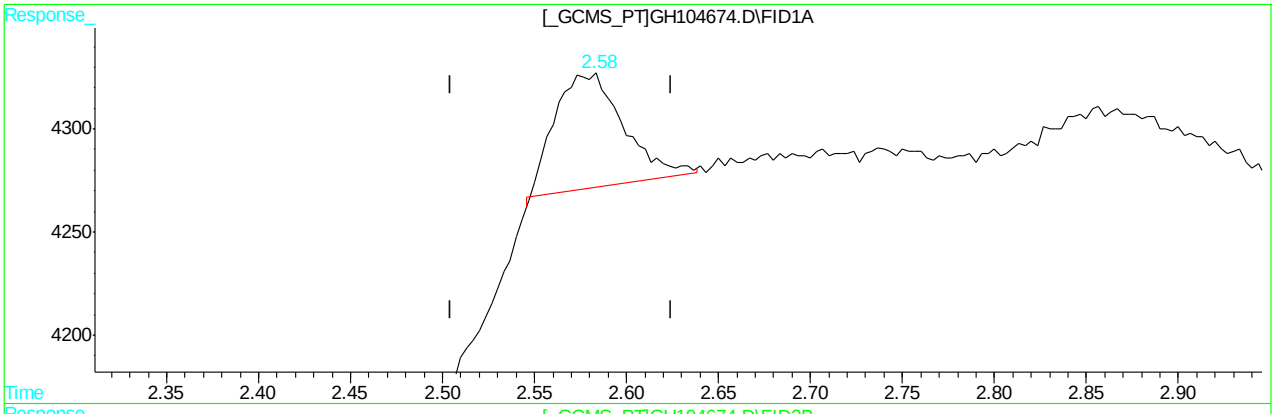
SGS ACCUTEST JC20098

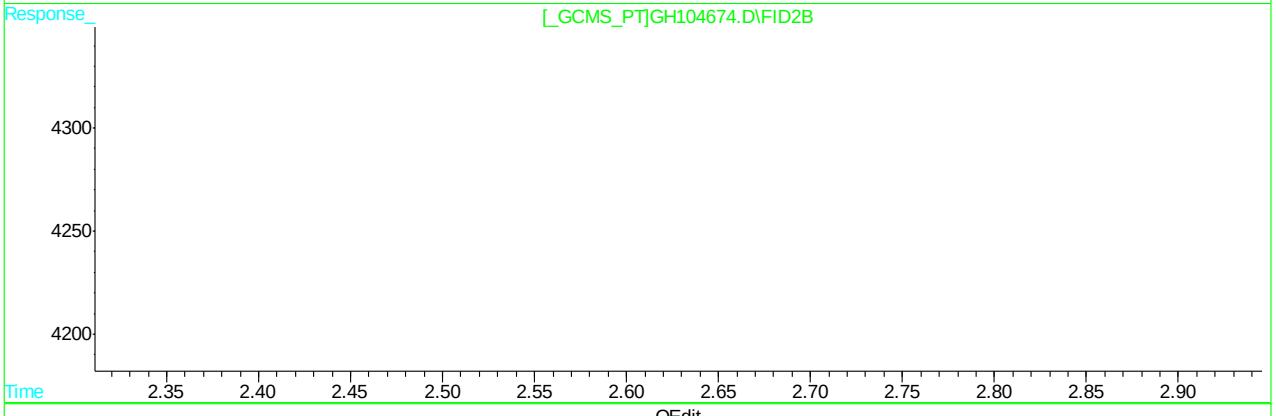
Quantitation Report (Qedit)

```
Data File : C:\HPCHEM\1\DATA\GH104674.D\FID1A.CH          Vial: 2
Acq On    :  9 May 2016   1:28 pm                     Operator: XULIU
Sample    : IC5269-100                                Inst    : GCGH
Misc      : GC48342,GGH5269,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH104674.D\FID2B.CH          Vial: 2
Acq On    :  9 May 2016   1:49 pm                     Operator: XULIU
Sample    : IC5269-100                                Inst    : GCGH
Misc      : GC48342,GGH5269,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 10  9:41 2016  Quant Results File: MGH5269.RES


Method       : C:\HPCHEM\1\METHODS\MGH5269.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Tue May 10 10:22:20 2016
Response via : Multiple Level Calibration
```





QEdit

(4) 1-Propanol

2.58min 56.648PPB m

response 1437

(4) 1-Propanol #2

1.96min 117.370PPB

response 4687

(+) = Expected Retention Time

GH104674.D MGH5269.M Tue May 10 10:26:13 2016 GCGH

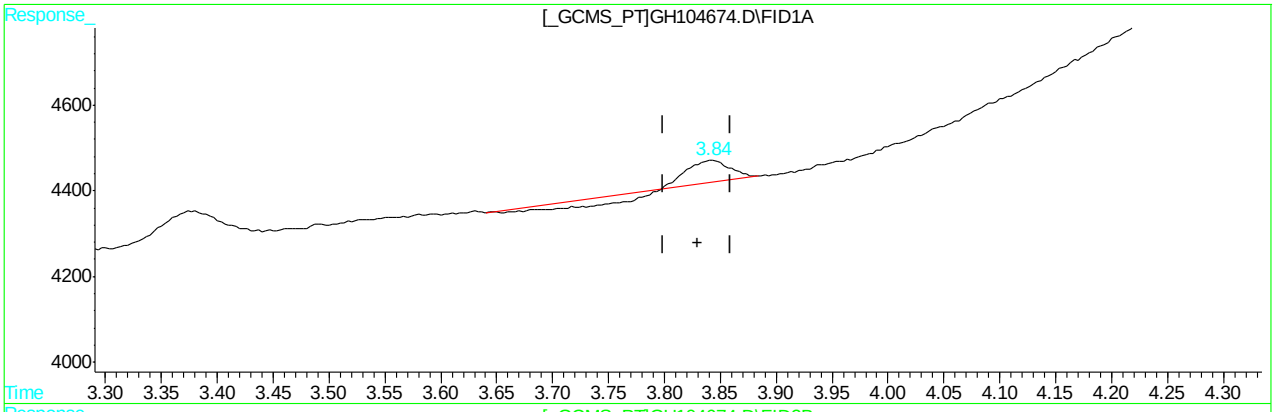
SGS ACCUTEST JC20098

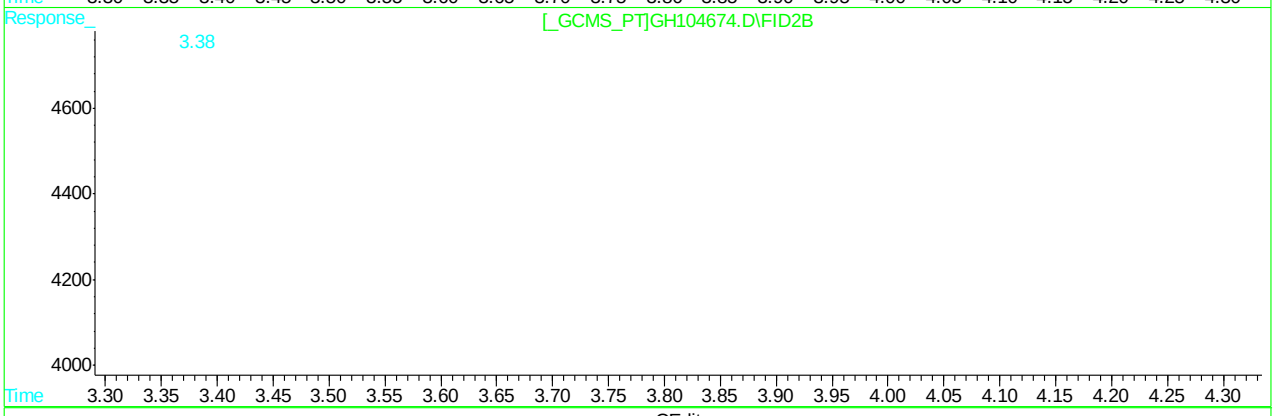
Quantitation Report (Qedit)

```
Data File : C:\HPCHEM\1\DATA\GH104674.D\FID1A.CH          Vial: 2
Acq On    :  9 May 2016   1:28 pm                     Operator: XULIU
Sample    : IC5269-100                                Inst    : GCGH
Misc      : GC48342,GGH5269,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH104674.D\FID2B.CH          Vial: 2
Acq On    :  9 May 2016   1:49 pm                     Operator: XULIU
Sample    : IC5269-100                                Inst    : GCGH
Misc      : GC48342,GGH5269,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 10 10:25 2016  Quant Results File: MGH5269.RES


Method       : C:\HPCHEM\1\METHODS\MGH5269.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Tue May 10 10:27:58 2016
Response via : Multiple Level Calibration
```





QEdit

(7) 1-Butanol

3.84min 11.608PPB

response 302

(7) 1-Butanol #2

3.38min 102.310PPB

response 5438

(+) = Expected Retention Time

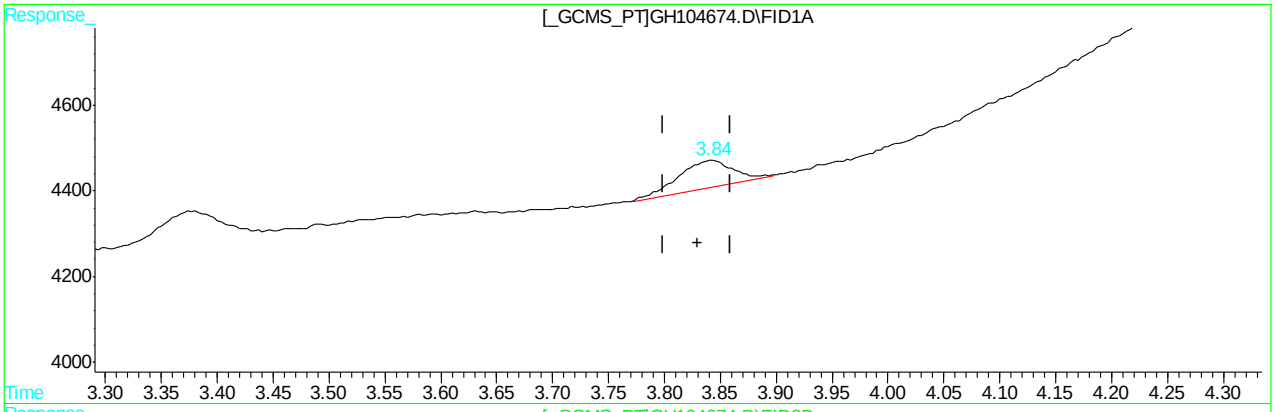
GH104674.D MGH5269.M Tue May 10 10:28:49 2016 GCGH

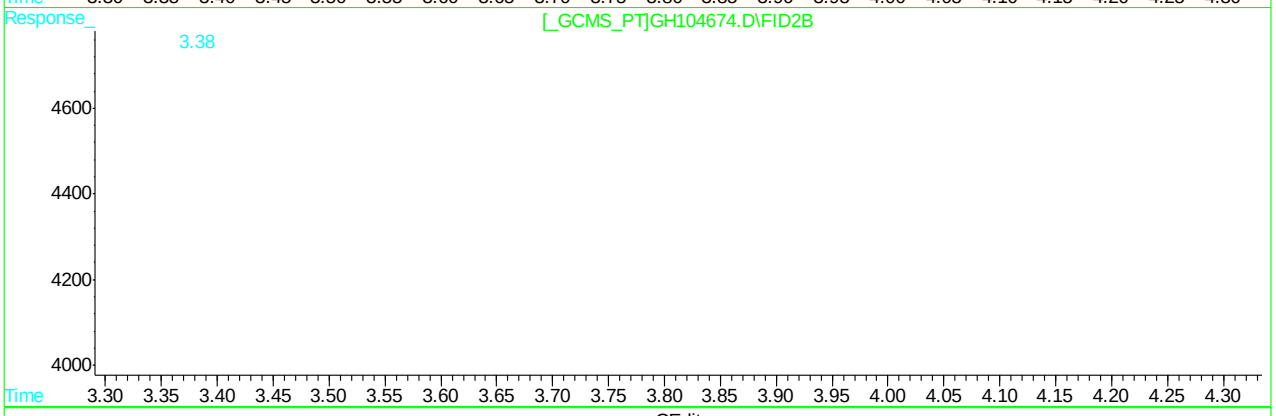
Quantitation Report (Qedit)

```
Data File : C:\HPCHEM\1\DATA\GH104674.D\FID1A.CH          Vial: 2
Acq On    :  9 May 2016   1:28 pm                     Operator: XULIU
Sample    : IC5269-100                                Inst    : GCGH
Misc      : GC48342,GGH5269,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH104674.D\FID2B.CH          Vial: 2
Acq On    :  9 May 2016   1:49 pm                     Operator: XULIU
Sample    : IC5269-100                                Inst    : GCGH
Misc      : GC48342,GGH5269,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 10 10:25 2016  Quant Results File: MGH5269.RES


Method       : C:\HPCHEM\1\METHODS\MGH5269.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Tue May 10 10:27:58 2016
Response via : Multiple Level Calibration
```





QEdit

(7) 1-Butanol

3.84min 87.938PPB m

response 2288

(7) 1-Butanol #2

3.38min 102.310PPB

response 5438

(+) = Expected Retention Time

GH104674.D MGH5269.M Tue May 10 10:29:46 2016 GCGH

Manual Integrations APPROVED (compounds with "m" flag)
Owen McKenna
05/10/16 12:49

Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH104675.D\FID1A.CH          Vial: 3
Acq On    :  9 May 2016   1:49 pm                     Operator: XULIU
Sample    : IC5269-500                                Inst    : GCGH
Misc      : GC48342,GGH5269,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH104675.D\FID2B.CH          Vial: 3
Acq On    :  9 May 2016   2:04 pm                     Operator: XULIU
Sample    : IC5269-500                                Inst    : GCGH
Misc      : GC48342,GGH5269,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 10 11:06 2016  Quant Results File: MGH5269.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5269.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Tue May 10 09:54:33 2016
Response via : Initial Calibration
DataAcq Meth : MGH5269.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
9) S	Hexanol	5.61	5.45	155641	338544	2034.146	2002.705
Spiked Amount	5000.000			Recovery	=	40.68%	40.05%
	Target Compounds						
1)	Methanol	1.14	0.95f	7966	6439	539.359	255.524m#
2)	Ethanol	1.49	1.15	9431	14087	503.977	430.233
3)	Tert-Butyl Alcoh	2.08	1.62f	14207	34168	520.325	580.335
4)	1-Propanol	2.57	1.98	12300	20457	484.805	512.230
5)	2-Propanol	1.80	1.39	10136	22758	488.484	575.762
6)	Isobutanol	3.37	2.91	15489	46800	563.522	741.552
7)	1-Butanol	3.83	3.39	8724	27492	335.300	517.205 #
8)	2-Butanol	3.00	2.53	12319	22672	490.327	491.547

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

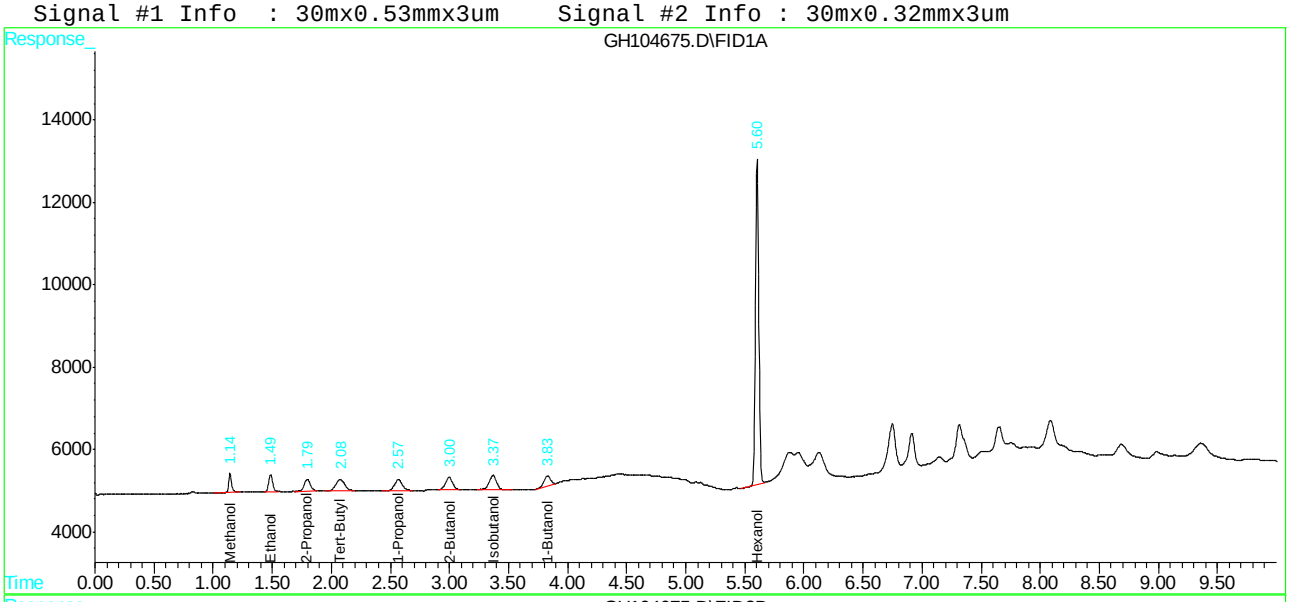
Quantitation Report (QT Reviewed)

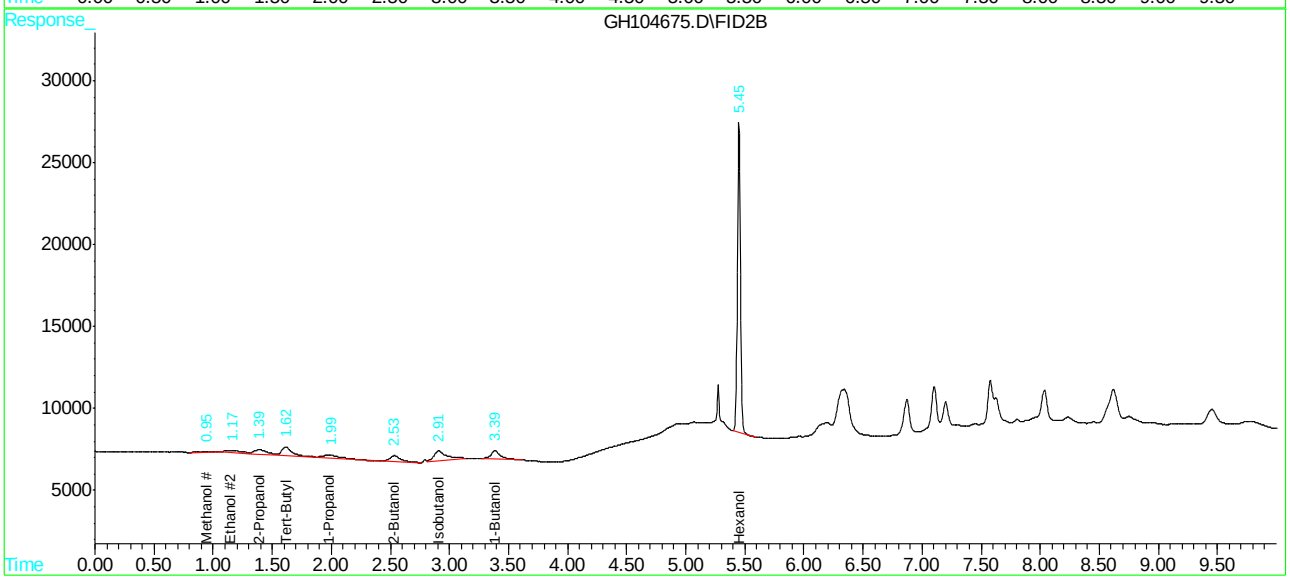
```
Data File : C:\HPCHEM\1\DATA\GH104675.D\FID1A.CH          Vial: 3
Acq On    :  9 May 2016   1:49 pm                     Operator: XULIU
Sample    : IC5269-500                                Inst    : GCGH
Misc      : GC48342,GGH5269,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH104675.D\FID2B.CH          Vial: 3
Acq On    :  9 May 2016   2:04 pm                     Operator: XULIU
Sample    : IC5269-500                                Inst    : GCGH
Misc      : GC48342,GGH5269,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 10 11:06 2016  Quant Results File: MGH5269.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5269.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Tue May 10 09:54:33 2016
Response via : Multiple Level Calibration
DataAcq Meth : MGH5269.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```





Manual Integration Approval Summary

Sample Number:	GGH5269-IC5269	**Method:**	SW846-8015C (DAI)
Lab FileID:	GH104675.D	**Analyst approved:**	05/10/16 11:09 Xu Liu
Injection Time:	05/09/16 13:49	**Supervisor approved:**	05/10/16 12:49 Owen McKenna

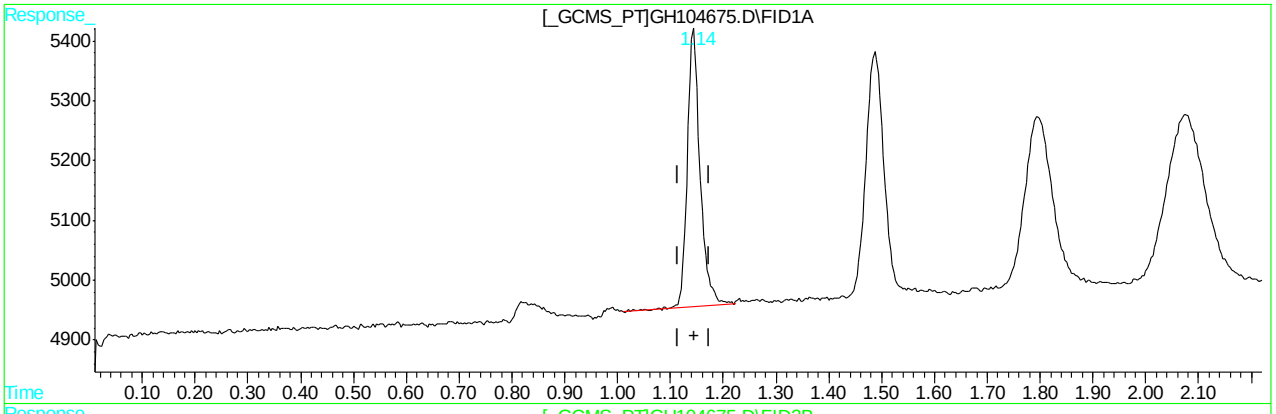
Parameter	CAS	Sig#	R.T. (min.)	Reason
Methanol	67-56-1	2	0.95	Missed peak

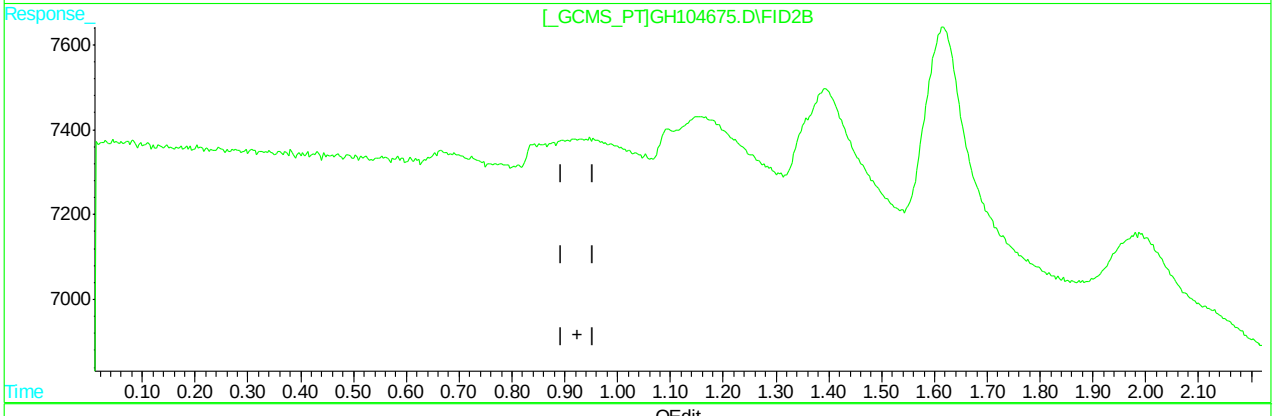
Quantitation Report (Qedit)

```
Data File : C:\HPCHEM\1\DATA\GH104675.D\FID1A.CH          Vial: 3
Acq On    :  9 May 2016   1:49 pm                     Operator: XULIU
Sample    : IC5269-500                                Inst    : GCGH
Misc      : GC48342,GGH5269,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH104675.D\FID2B.CH          Vial: 3
Acq On    :  9 May 2016   2:04 pm                     Operator: XULIU
Sample    : IC5269-500                                Inst    : GCGH
Misc      : GC48342,GGH5269,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 10  9:57 2016  Quant Results File: MGH5269.RES


Method       : C:\HPCHEM\1\METHODS\MGH5269.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Tue May 10 10:29:55 2016
Response via : Multiple Level Calibration
```





QEdit

(1) Methanol

1.14min 539.359PPB

response 7966

(1) Methanol #2

0.00min 0.000PPB

response 0

(+) = Expected Retention Time

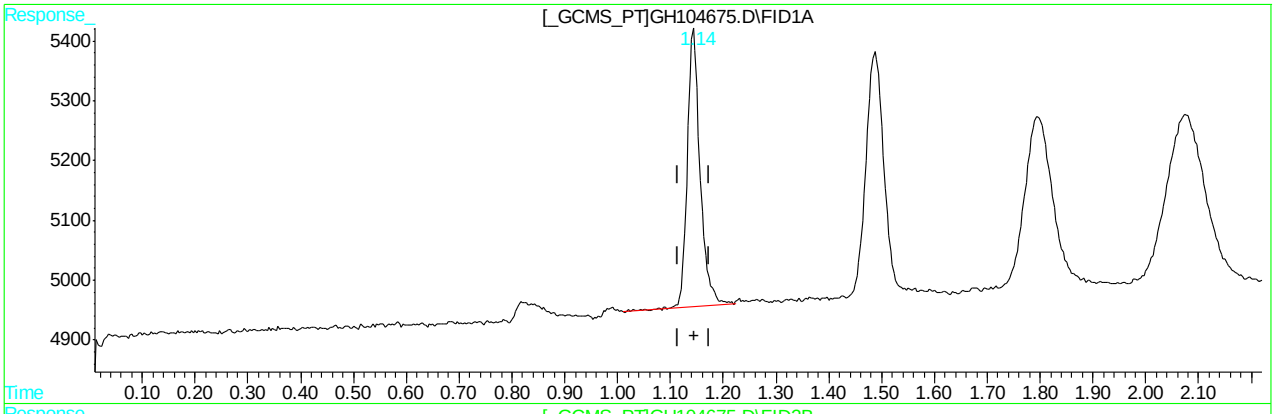
GH104675.D MGH5269.M Tue May 10 11:06:18 2016 GCGH

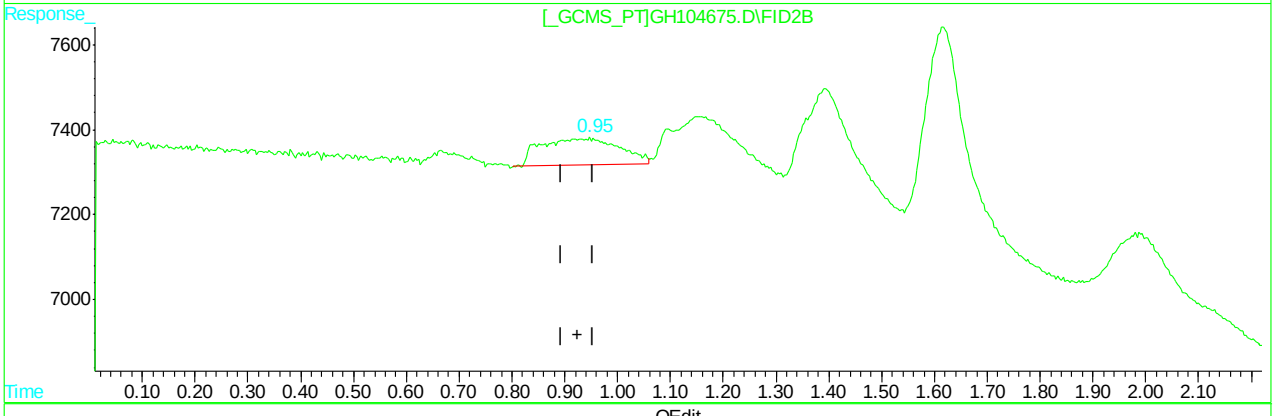
Quantitation Report (Qedit)

```
Data File : C:\HPCHEM\1\DATA\GH104675.D\FID1A.CH          Vial: 3
Acq On    :  9 May 2016   1:49 pm                     Operator: XULIU
Sample    : IC5269-500                                Inst    : GCGH
Misc      : GC48342,GGH5269,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH104675.D\FID2B.CH          Vial: 3
Acq On    :  9 May 2016   2:04 pm                     Operator: XULIU
Sample    : IC5269-500                                Inst    : GCGH
Misc      : GC48342,GGH5269,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 10  9:57 2016  Quant Results File: MGH5269.RES


Method       : C:\HPCHEM\1\METHODS\MGH5269.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Tue May 10 10:29:55 2016
Response via : Multiple Level Calibration
```





QEdit

(1) Methanol

1.14min 539.359PPB

response 7966

(1) Methanol #2

0.95min 255.524PPB m

response 6439

(+) = Expected Retention Time

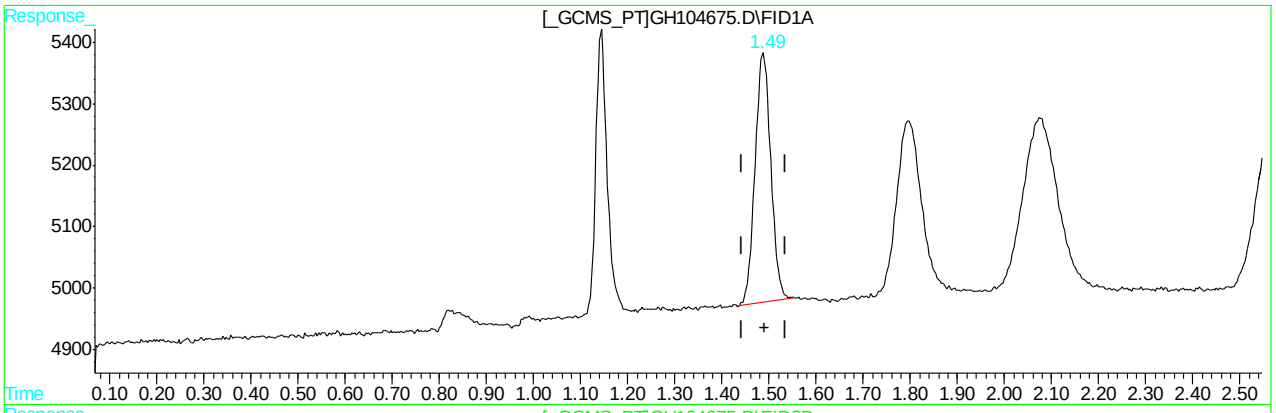
GH104675.D MGH5269.M Tue May 10 11:06:25 2016 GCGH

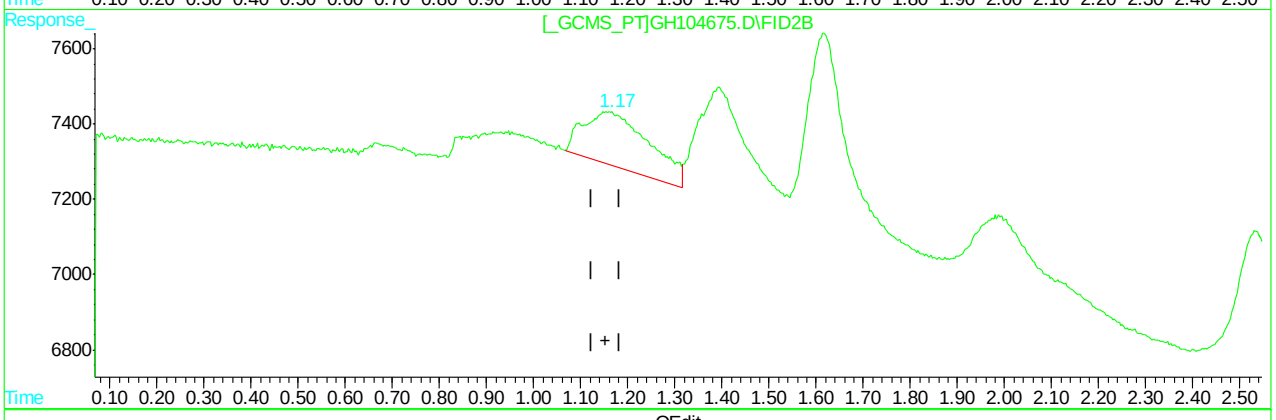
Quantitation Report (Qedit)

```
Data File : C:\HPCHEM\1\DATA\GH104675.D\FID1A.CH          Vial: 3
Acq On    :  9 May 2016   1:49 pm                     Operator: XULIU
Sample    : IC5269-500                                Inst    : GCGH
Misc      : GC48342,GGH5269,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH104675.D\FID2B.CH          Vial: 3
Acq On    :  9 May 2016   2:04 pm                     Operator: XULIU
Sample    : IC5269-500                                Inst    : GCGH
Misc      : GC48342,GGH5269,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 10 11:06 2016  Quant Results File: MGH5269.RES


Method       : C:\HPCHEM\1\METHODS\MGH5269.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Tue May 10 11:06:41 2016
Response via : Multiple Level Calibration
```





QEdit

(2) Ethanol

1.49min 503.977PPB

response 9431

(2) Ethanol #2

1.15min 430.233PPB

response 14087

(+) = Expected Retention Time

GH104675.D MGH5269.M Tue May 10 11:24:42 2016 GCGH

Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH104676.D\FID1A.CH          Vial: 4
Acq On    :  9 May 2016   2:04 pm                     Operator: XULIU
Sample    : IC5269-1000                               Inst    : GCGH
Misc      : GC48342,GGH5269,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH104676.D\FID2B.CH          Vial: 4
Acq On    :  9 May 2016   2:18 pm                     Operator: XULIU
Sample    : IC5269-1000                               Inst    : GCGH
Misc      : GC48342,GGH5269,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 10  9:58 2016  Quant Results File: MGH5269.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5269.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Tue May 10 09:57:36 2016
Response via : Initial Calibration
DataAcq Meth : MGH5269.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
9) S	Hexanol	5.60	5.44	303591	672843	3967.781	3980.295
	Spiked Amount 5000.000			Recovery	=	79.36%	79.61%
	Target Compounds						
1)	Methanol	1.15	0.90	15388	31657	1041.927	1256.339
2)	Ethanol	1.49	1.14	19273	41463	1029.941	1266.307
3)	Tert-Butyl Alcoh	2.07	1.62f	27422	61351	1004.338	1042.011
4)	1-Propanol	2.56	1.97	23966	39583	944.641	991.147
5)	2-Propanol	1.80	1.39	20074	44557	967.396	1127.272
6)	Isobutanol	3.37	2.91	28308	55331	1029.904	876.740
7)	1-Butanol	3.83	3.39	25885	57940	994.891	1090.021
8)	2-Butanol	3.00	2.53	31386	52105	1249.275	1129.682

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

SGS ACCUTEST JC20098

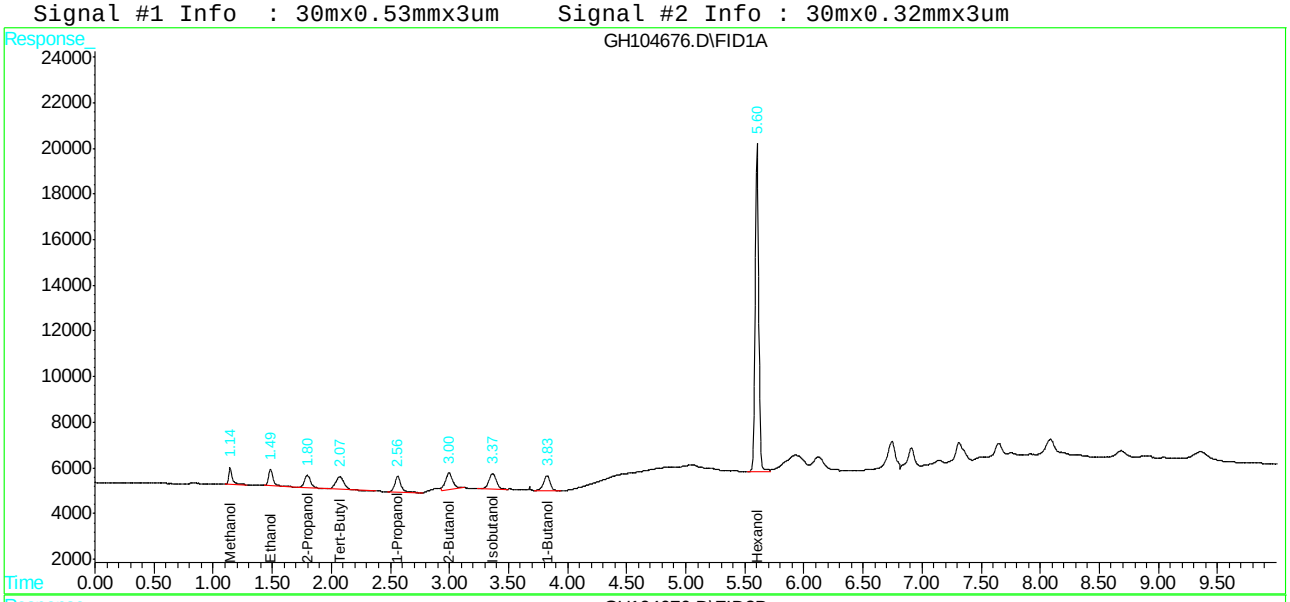
Quantitation Report (QT Reviewed)

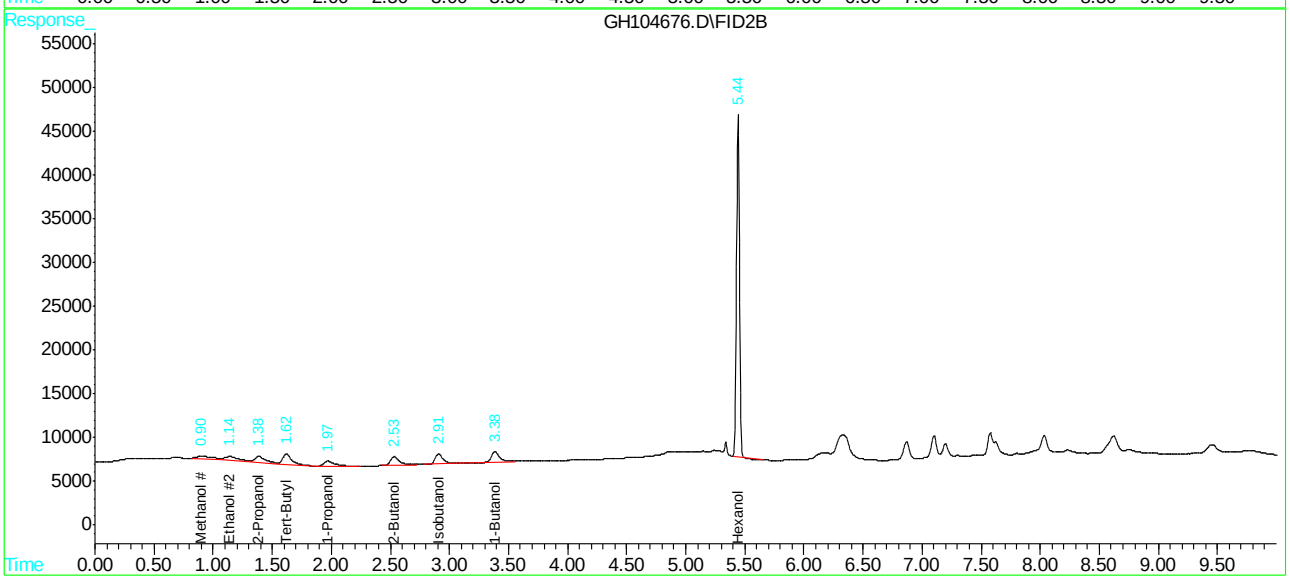
```
Data File : C:\HPCHEM\1\DATA\GH104676.D\FID1A.CH          Vial: 4
Acq On    :  9 May 2016   2:04 pm                     Operator: XULIU
Sample    : IC5269-1000                               Inst    : GCGH
Misc      : GC48342,GGH5269,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH104676.D\FID2B.CH          Vial: 4
Acq On    :  9 May 2016   2:18 pm                     Operator: XULIU
Sample    : IC5269-1000                               Inst    : GCGH
Misc      : GC48342,GGH5269,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 10  9:58 2016  Quant Results File: MGH5269.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5269.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Tue May 10 09:57:36 2016
Response via : Multiple Level Calibration
DataAcq Meth : MGH5269.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```





Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\GH104677.D\FID1A.CH Vial: 5
Acq On : 9 May 2016 2:18 pm Operator: XULIU
Sample : ICC5269-5000 Inst : GCGH
Misc : GC48342,GGH5269,5.0,,,,1 Multiplr: 1.00
IntFile : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH104677.D\FID2B.CH Vial: 5
Acq On : 9 May 2016 2:33 pm Operator: XULIU
Sample : ICC5269-5000 Inst : GCGH
Misc : GC48342,GGH5269,5.0,,,,1 Multiplr: 1.00
IntFile : autoint2.e
Quant Time: May 10 9:53 2016 Quant Results File: MGH5269.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5269.M (Chemstation Integrator)
Title : METHOD SW846-8015C (DAI)
Last Update : Tue May 10 09:53:11 2016
Response via : Initial Calibration
DataAcq Meth : MGH5269.M

Volume Inj. : 2ul
Signal #1 Phase : ZB-624 Signal #2 Phase: RTX-1
Signal #1 Info : 30mx0.53mmx3um Signal #2 Info : 30mx0.32mmx3um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB	
	System Monitoring Compounds							
9) S	Hexanol	5.61	5.45	399452	852765	5220.642	5044.646	
Spiked Amount	5000.000			Recovery	=	104.41%	100.89%	
	Target Compounds							
1)	Methanol	1.14	0.93	69718	69126	4720.585	2743.319	#
2)	Ethanol	1.49	1.16	92298	170511	4932.446	5207.532	
3)	Tert-Butyl Alcoh	2.07	1.62	134234	405477	4916.384	6886.825	#
4)	1-Propanol	2.57	1.98	120620	384047	4754.340	9616.362	#
5)	2-Propanol	1.80	1.39	98162	234600	4730.664	5935.275	
6)	Isobutanol	3.37	2.90	142882	274685	5198.247	4352.446	
7)	1-Butanol	3.83	3.38	142943	256728	5494.115	4829.771	
8)	2-Butanol	3.00	2.53	125245	298157	4985.133	6464.358	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.
GH104677.D MGH5269.M Tue May 10 10:16:59 2016 GCGH

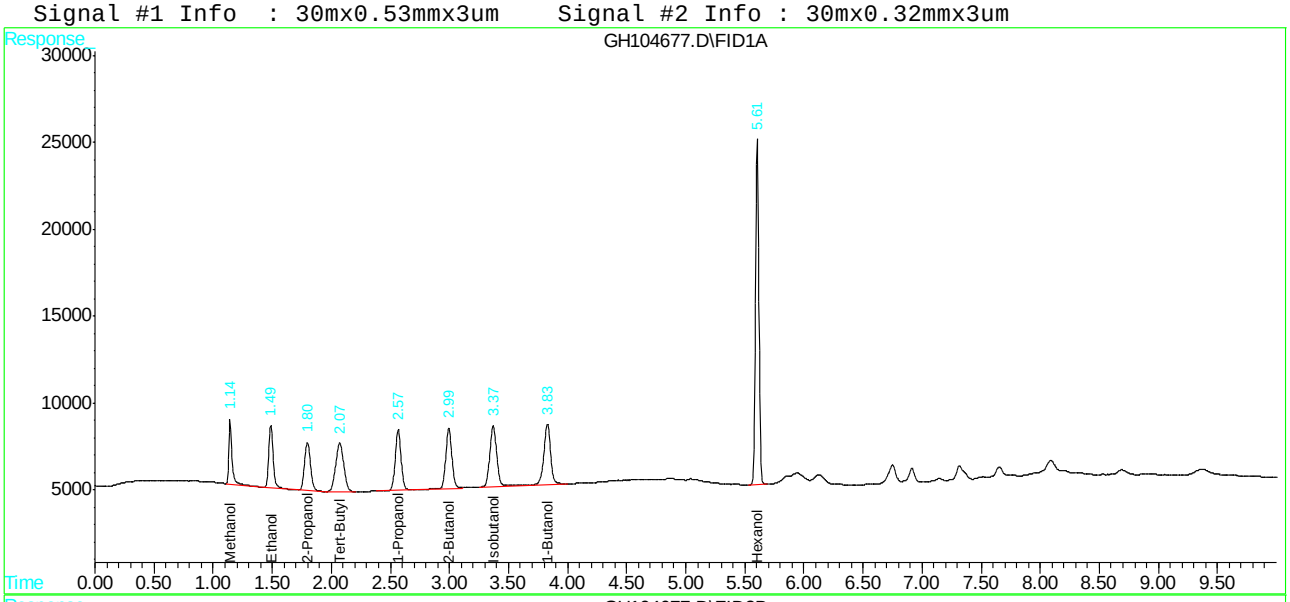
Quantitation Report (QT Reviewed)

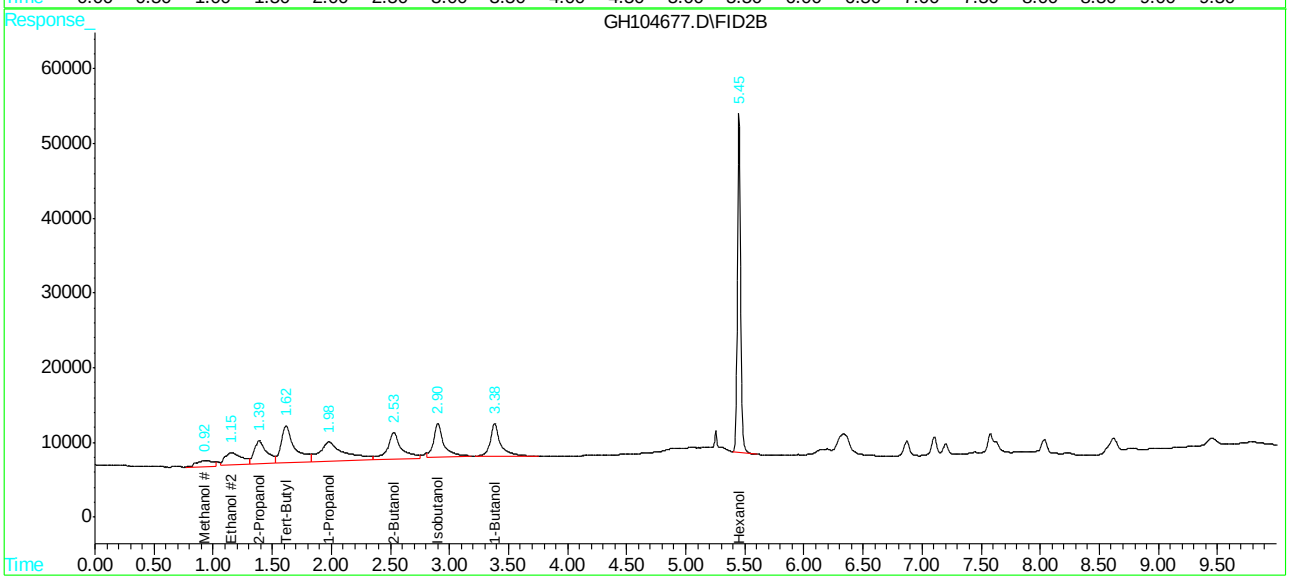
```
Data File : C:\HPCHEM\1\DATA\GH104677.D\FID1A.CH          Vial: 5
Acq On    :  9 May 2016   2:18 pm                     Operator: XULIU
Sample    : ICC5269-5000                              Inst    : GCGH
Misc      : GC48342,GGH5269,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH104677.D\FID2B.CH          Vial: 5
Acq On    :  9 May 2016   2:33 pm                     Operator: XULIU
Sample    : ICC5269-5000                              Inst    : GCGH
Misc      : GC48342,GGH5269,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 10  9:53 2016  Quant Results File: MGH5269.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5269.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Tue May 10 09:53:11 2016
Response via : Multiple Level Calibration
DataAcq Meth : MGH5269.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```





Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH104678.D\FID1A.CH          Vial: 6
Acq On    :  9 May 2016   2:33 pm                     Operator: XULIU
Sample    : IC5269-10000                              Inst    : GCGH
Misc      : GC48342,GGH5269,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH104678.D\FID2B.CH          Vial: 6
Acq On    :  9 May 2016   2:54 pm                     Operator: XULIU
Sample    : IC5269-10000                              Inst    : GCGH
Misc      : GC48342,GGH5269,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 10 10:07 2016  Quant Results File: MGH5269.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5269.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Tue May 10 10:07:17 2016
Response via : Initial Calibration
DataAcq Meth : MGH5269.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
System Monitoring Compounds						
9) S Hexanol	5.61	5.39	400565	787400	5235.190	4657.969
Spiked Amount 5000.000			Recovery	=	104.70%	93.16%
Target Compounds						
1) Methanol	1.15	0.91	139678	103161	9457.541	4094.038 #
2) Ethanol	1.49	1.17f	193822	212310	10357.983	6484.084
3) Tert-Butyl Alcoh	2.07	1.67f	287026	596945	10512.470	10138.817
4) 1-Propanol	2.57	2.01f	241983	445497	9537.952	11155.026
5) 2-Propanol	1.80	1.43f	222300	316022	10713.155	7995.202
6) Isobutanol	3.37	2.95f	279069	478633	10152.927	7584.056
7) 1-Butanol	3.83	3.43f	272252	416396	10464.176	7833.566
8) 2-Butanol	3.00	2.58f	246940	434114	9828.962	9412.052

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

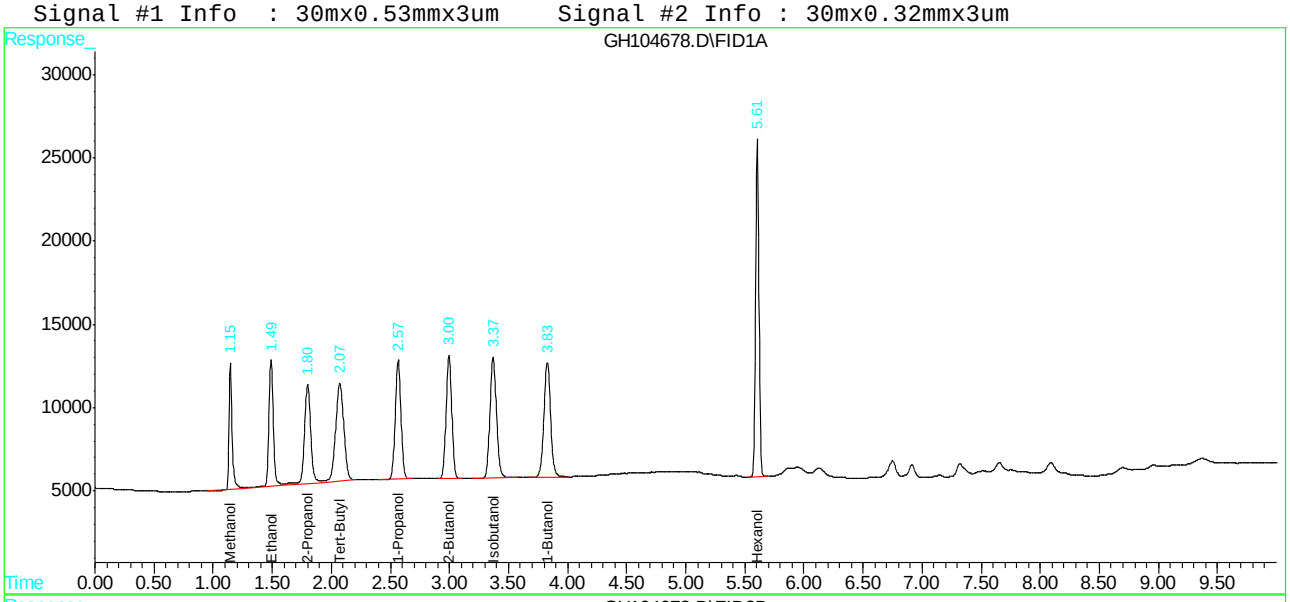
Quantitation Report (QT Reviewed)

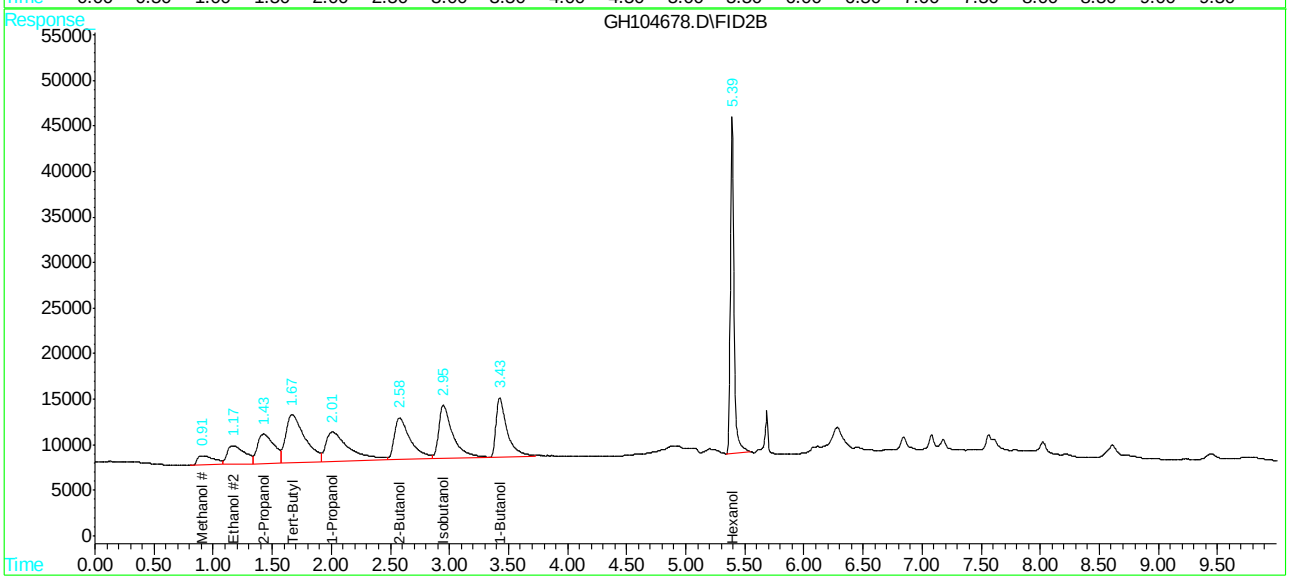
```
Data File : C:\HPCHEM\1\DATA\GH104678.D\FID1A.CH          Vial: 6
Acq On    :  9 May 2016   2:33 pm                     Operator: XULIU
Sample    : IC5269-10000                              Inst    : GCGH
Misc      : GC48342,GGH5269,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH104678.D\FID2B.CH          Vial: 6
Acq On    :  9 May 2016   2:54 pm                     Operator: XULIU
Sample    : IC5269-10000                              Inst    : GCGH
Misc      : GC48342,GGH5269,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 10 10:07 2016  Quant Results File: MGH5269.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5269.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Tue May 10 10:07:17 2016
Response via : Multiple Level Calibration
DataAcq Meth : MGH5269.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```





Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH104679.D\FID1A.CH          Vial: 7
Acq On    :  9 May 2016   2:54 pm                     Operator: XULIU
Sample    : IC5269-50000                              Inst    : GCGH
Misc      : GC48342,GGH5269,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH104679.D\FID2B.CH          Vial: 7
Acq On    :  9 May 2016   3:09 pm                     Operator: XULIU
Sample    : IC5269-50000                              Inst    : GCGH
Misc      : GC48342,GGH5269,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 10 10:09 2016  Quant Results File: MGH5269.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5269.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Tue May 10 10:09:13 2016
Response via : Initial Calibration
DataAcq Meth : MGH5269.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
System Monitoring Compounds						
9) S Hexanol	5.61	5.45f	497290	1090728	6499.330	6452.345
Spiked Amount 5000.000			Recovery	=	129.99%	129.05%
Target Compounds						
1) Methanol	1.14	0.87f	662127	1473199	44832.252	58465.418
2) Ethanol	1.49	1.12f	869497	1828416	46466.502	55841.082
3) Tert-Butyl Alcoh	2.07	1.62	1291147	2923252	47288.930	49649.987
4) 1-Propanol	2.56	1.96	1123233	2344658	44273.121	58709.139
5) 2-Propanol	1.80	1.38	924902	2024797	44573.192	51226.377
6) Isobutanol	3.37	2.90	1287768	2583184	46850.874	40931.194
7) 1-Butanol	3.83	3.38	1244720	2515352	47841.645	47320.746
8) 2-Butanol	2.99	2.53	1145678	2396916	45601.457	51967.691

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

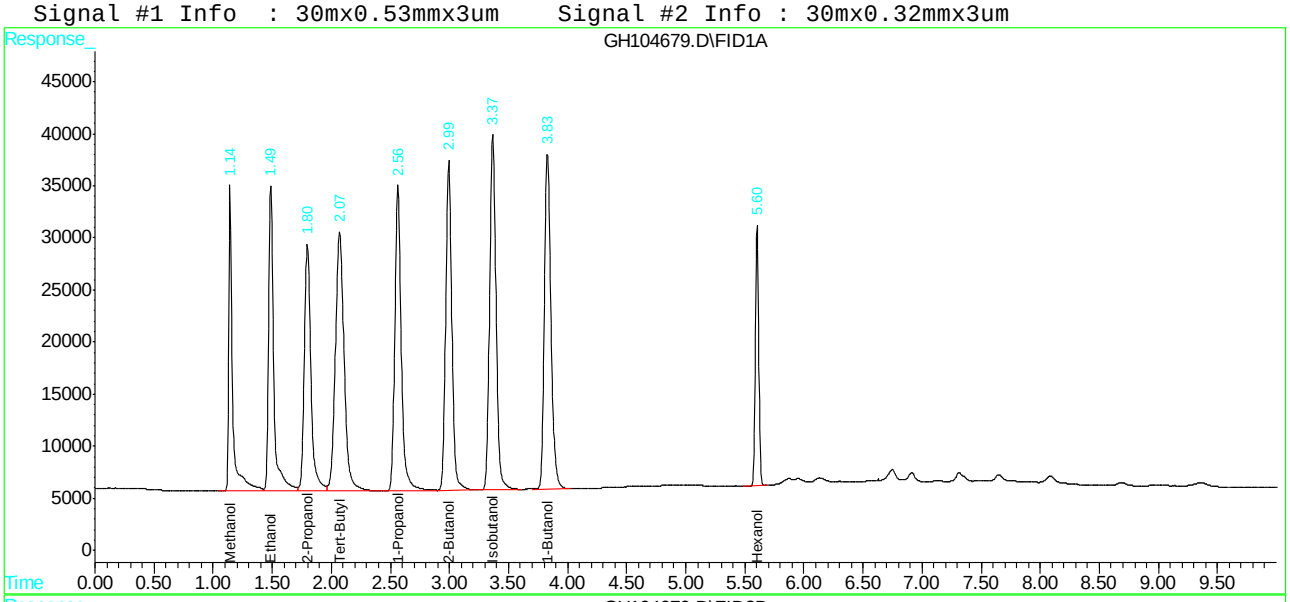
Quantitation Report (QT Reviewed)

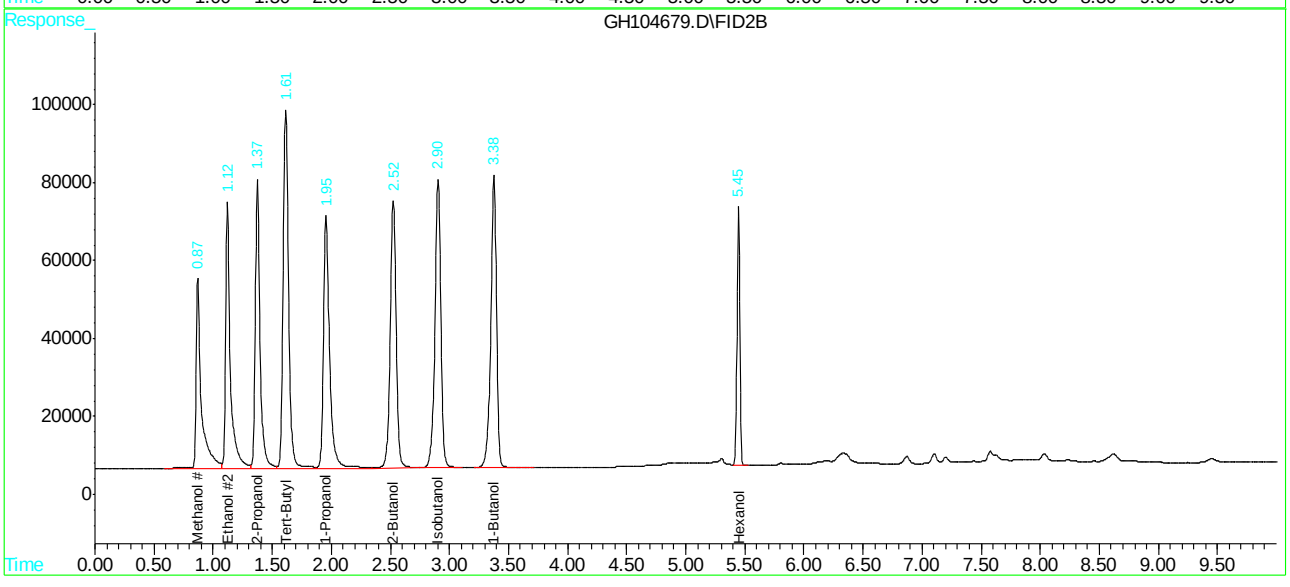
```
Data File : C:\HPCHEM\1\DATA\GH104679.D\FID1A.CH          Vial: 7
Acq On    :  9 May 2016   2:54 pm                     Operator: XULIU
Sample    : IC5269-50000                              Inst    : GCGH
Misc      : GC48342,GGH5269,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH104679.D\FID2B.CH          Vial: 7
Acq On    :  9 May 2016   3:09 pm                     Operator: XULIU
Sample    : IC5269-50000                              Inst    : GCGH
Misc      : GC48342,GGH5269,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 10 10:09 2016  Quant Results File: MGH5269.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5269.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Tue May 10 10:09:13 2016
Response via : Multiple Level Calibration
DataAcq Meth : MGH5269.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```





Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH104683.D\FID1A.CH          Vial: 10
Acq On    :  9 May 2016   5:42 pm                     Operator: XULIU
Sample    : ICV5269-5000                              Inst    : GCGH
Misc      : GC48342,GGH5269,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH104683.D\FID2B.CH          Vial: 10
Acq On    :  9 May 2016   6:04 pm                     Operator: XULIU
Sample    : ICV5269-5000                              Inst    : GCGH
Misc      : GC48342,GGH5269,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 10 10:32 2016  Quant Results File: MGH5269.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5269.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Tue May 10 10:29:55 2016
Response via : Initial Calibration
DataAcq Meth : MGH5269.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
9) S	Hexanol	5.60	5.44	346499	764323	4528.568	4644.253
Spiked Amount	5000.000			Recovery	=	90.57%	92.89%
	Target Compounds						
1)	Methanol	1.14	0.88	69747	149424	4722.538	6848.279 #
2)	Ethanol	1.49	1.13	98274	199013	5251.857	6263.326
3)	Tert-Butyl Alcoh	2.07	1.62	141470	315650	5181.430	4834.343
4)	1-Propanol	2.56	1.96	117258	263447	5261.158	5346.941
5)	2-Propanol	1.79	1.38	99427	217420	4791.629	5200.646
6)	Isobutanol	3.36	2.90	146264	290191	5321.284	4677.799
7)	1-Butanol	3.83	3.38	138769	322004	5667.134	6220.286
8)	2-Butanol	2.99	2.53	123337	262596	4894.660	5314.179

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

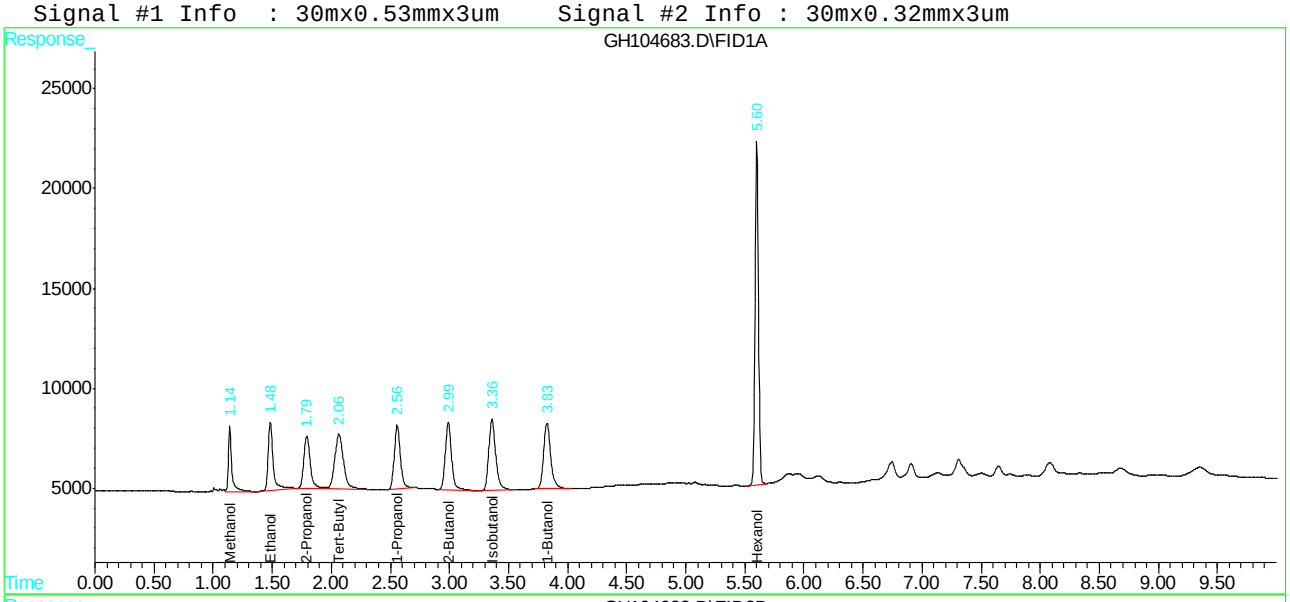
Quantitation Report (QT Reviewed)

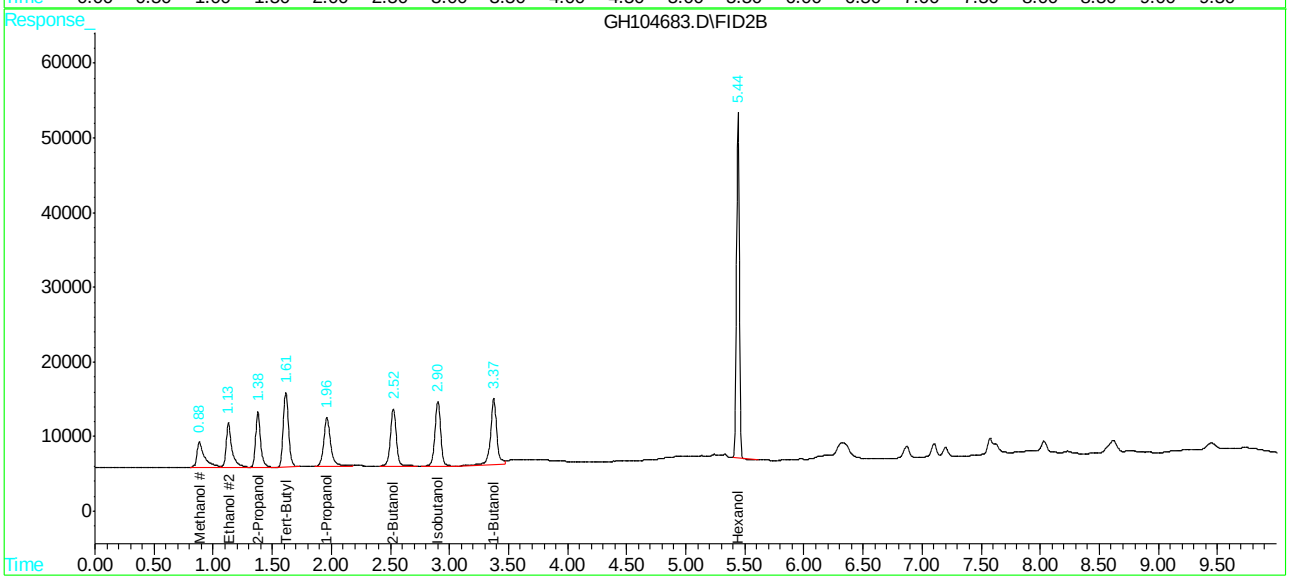
```
Data File : C:\HPCHEM\1\DATA\GH104683.D\FID1A.CH          Vial: 10
Acq On    :  9 May 2016   5:42 pm                     Operator: XULIU
Sample    : ICV5269-5000                              Inst    : GCGH
Misc      : GC48342,GGH5269,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH104683.D\FID2B.CH          Vial: 10
Acq On    :  9 May 2016   6:04 pm                     Operator: XULIU
Sample    : ICV5269-5000                              Inst    : GCGH
Misc      : GC48342,GGH5269,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 10 10:32 2016  Quant Results File: MGH5269.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5269.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Tue May 10 10:29:55 2016
Response via : Multiple Level Calibration
DataAcq Meth : MGH5269.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```





Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH104960.D\FID1A.CH          Vial: 90
Acq On    : 16 May 2016   3:50 pm                     Operator: XULIU
Sample    : CC5269-5000                               Inst    : GCGH
Misc      : GC48420,GGH5285,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH104960.D\FID2B.CH          Vial: 90
Acq On    : 16 May 2016   4:06 pm                     Operator: XULIU
Sample    : CC5269-5000                               Inst    : GCGH
Misc      : GC48420,GGH5285,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 17  7:37 2016  Quant Results File: MGH5269.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5269.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Tue May 17 07:24:13 2016
Response via : Initial Calibration
DataAcq Meth : MGH5269.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB	
	System Monitoring Compounds							
9) S	Hexanol	5.60	5.48	395939	278237	5174.719	1690.654	#
Spiked Amount	5000.000			Recovery	=	103.49%	33.81%	
	Target Compounds							
1)	Methanol	1.15	0.86	77696	60614	5260.772	2981.680	#
2)	Ethanol	1.49	1.11	100907	70117	5392.537	2206.715	#
3)	Tert-Butyl Alcoh	2.07	1.60	139661	122888	5115.166	1882.097	#
4)	1-Propanol	2.56	1.94	133202	89091	5976.549	1808.195	#
5)	2-Propanol	1.80	1.37f	106323	79137	5123.975	1892.937	#
6)	Isobutanol	3.36	2.89	148451	102247	5400.863	1648.192	#
7)	1-Butanol	3.80	3.38	152899	100826	6244.216	1947.702	#
8)	2-Butanol	2.99	2.51f	134178	94233	5324.862	1906.994	#

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

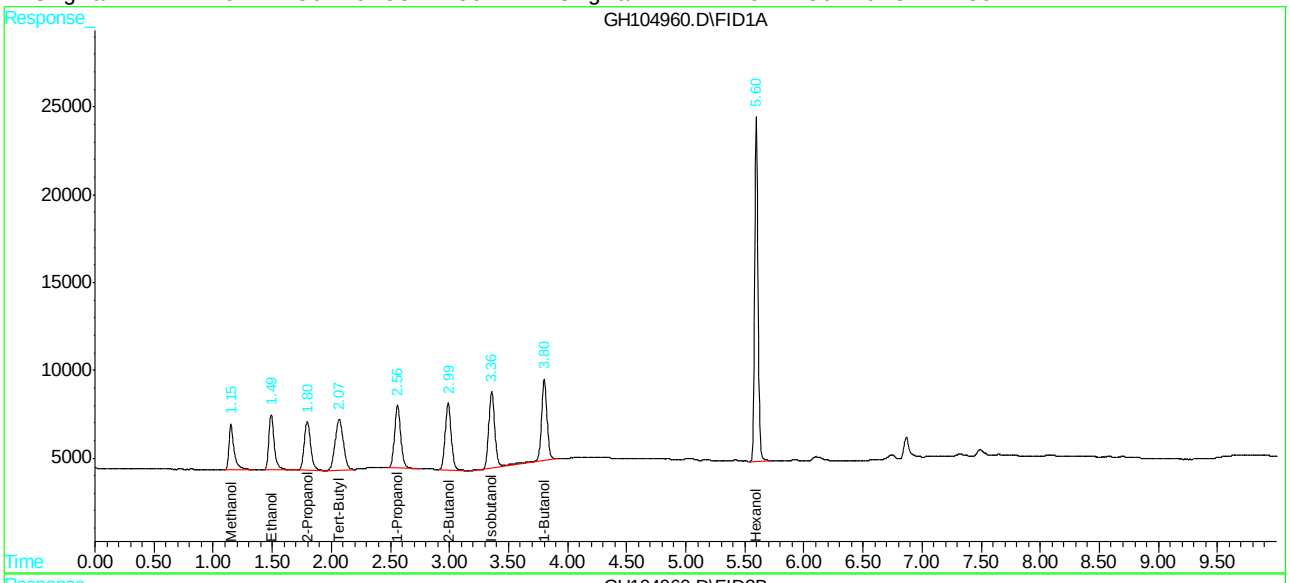
Quantitation Report (QT Reviewed)

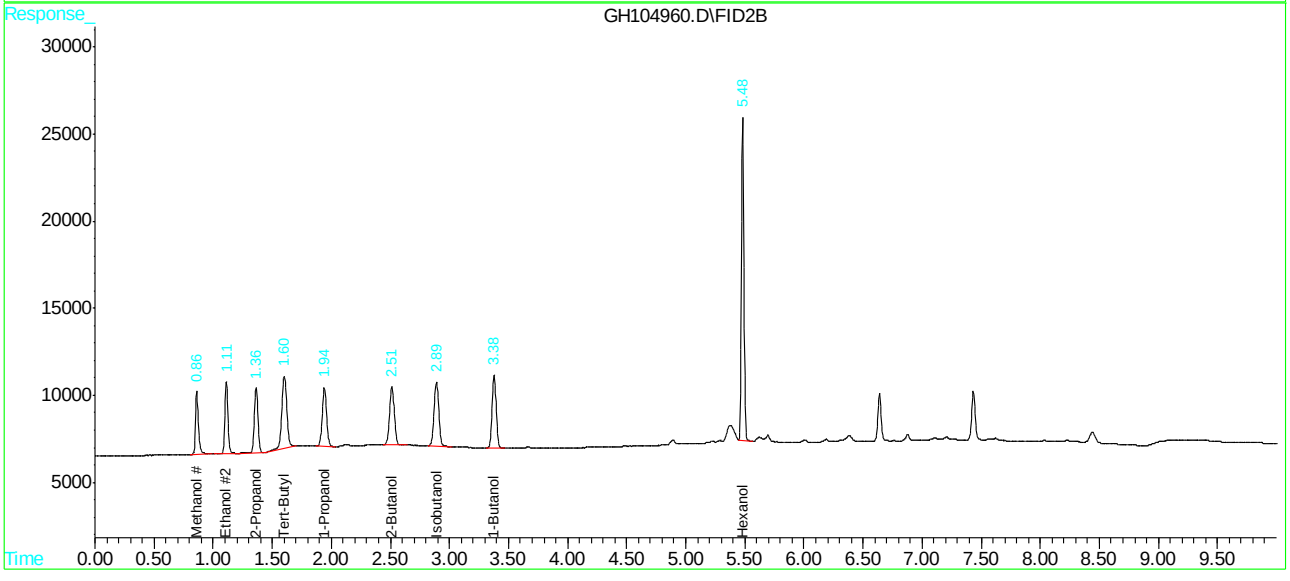
```
Data File : C:\HPCHEM\1\DATA\GH104960.D\FID1A.CH          Vial: 90
Acq On    : 16 May 2016   3:50 pm                     Operator: XULIU
Sample    : CC5269-5000                               Inst    : GCGH
Misc      : GC48420,GGH5285,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH104960.D\FID2B.CH          Vial: 90
Acq On    : 16 May 2016   4:06 pm                     Operator: XULIU
Sample    : CC5269-5000                               Inst    : GCGH
Misc      : GC48420,GGH5285,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 17  7:37 2016  Quant Results File: MGH5269.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5269.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Tue May 17 07:24:13 2016
Response via : Multiple Level Calibration
DataAcq Meth : MGH5269.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```





Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH104970.D\FID1A.CH          Vial: 95
Acq On    : 16 May 2016   6:35 pm                     Operator: XULIU
Sample    : CC5269-10000                              Inst    : GCGH
Misc      : GC48420,GGH5285,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH104970.D\FID2B.CH          Vial: 95
Acq On    : 16 May 2016   6:50 pm                     Operator: XULIU
Sample    : CC5269-10000                              Inst    : GCGH
Misc      : GC48420,GGH5285,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 17  7:48 2016  Quant Results File: MGH5269.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5269.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Tue May 17 07:48:39 2016
Response via : Initial Calibration
DataAcq Meth : MGH5269.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
9) S	Hexanol	5.60	5.48	340971	197569	4456.325	1200.491 #
	Spiked Amount 5000.000			Recovery	=	89.13%	24.01%
	Target Compounds						
1)	Methanol	1.14	0.87	156388	81158	10588.936	3992.234 #
2)	Ethanol	1.49	1.11	199897	88628	10682.620	2789.292 #
3)	Tert-Butyl Alcoh	2.07	1.60	295973	155882	10840.182	2387.419 #
4)	1-Propanol	2.56	1.94f	265940	107810	11932.315	2188.114 #
5)	2-Propanol	1.79	1.36f	211475	89229	10191.453	2134.344 #
6)	Isobutanol	3.35	2.90	307202	160621	11176.453	2589.156 #
7)	1-Butanol	3.80	3.39f	293749	153724	11996.353	2969.557 #
8)	2-Butanol	2.99	2.51f	270702	143634	10742.841	2906.731 #

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

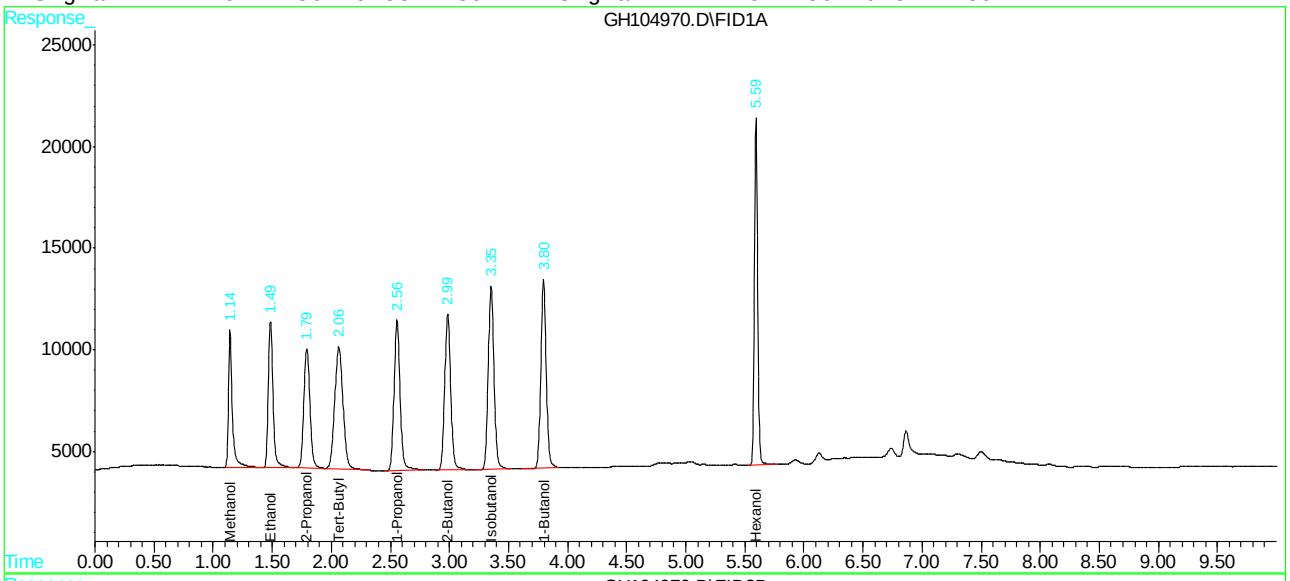
Quantitation Report (QT Reviewed)

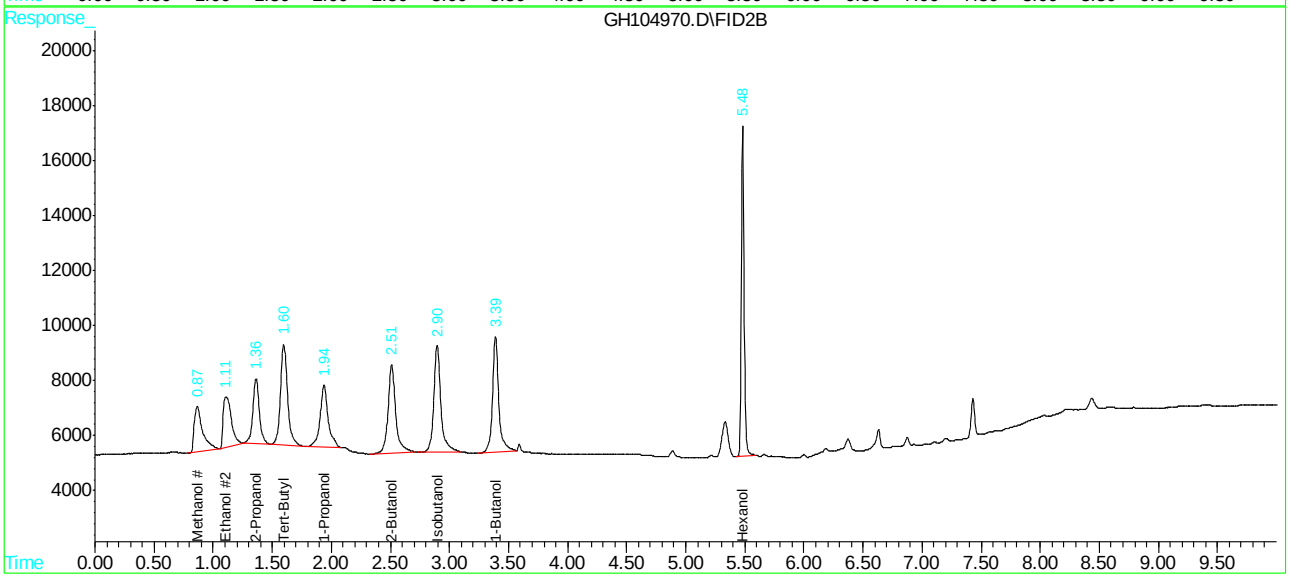
```
Data File : C:\HPCHEM\1\DATA\GH104970.D\FID1A.CH          Vial: 95
Acq On    : 16 May 2016   6:35 pm                     Operator: XULIU
Sample    : CC5269-10000                              Inst    : GCGH
Misc      : GC48420,GGH5285,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH104970.D\FID2B.CH          Vial: 95
Acq On    : 16 May 2016   6:50 pm                     Operator: XULIU
Sample    : CC5269-10000                              Inst    : GCGH
Misc      : GC48420,GGH5285,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 17  7:48 2016  Quant Results File: MGH5269.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5269.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Tue May 17 07:48:39 2016
Response via : Multiple Level Calibration
DataAcq Meth : MGH5269.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```





Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH104980.D\FID1A.CH          Vial: 90
Acq On    : 16 May 2016   9:21 pm                     Operator: XULIU
Sample    : CC5269-5000                               Inst    : GCGH
Misc      : GC48420,GGH5285,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH104980.D\FID2B.CH          Vial: 90
Acq On    : 16 May 2016   9:36 pm                     Operator: XULIU
Sample    : CC5269-5000                               Inst    : GCGH
Misc      : GC48420,GGH5285,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 17  8:05 2016  Quant Results File: MGH5269.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5269.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Tue May 17 07:48:39 2016
Response via : Initial Calibration
DataAcq Meth : MGH5269.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB	
	System Monitoring Compounds							
9) S	Hexanol	5.60	5.48	383526	268777	5012.497	1633.169	#
Spiked Amount	5000.000			Recovery	=	100.25%	32.66%	
	Target Compounds							
1)	Methanol	1.15	0.86	72636	61331	4918.160	3016.948	
2)	Ethanol	1.49	1.11	95816	66937	5120.455	2106.651	#
3)	Tert-Butyl Alcoh	2.07	1.60	143687	109743	5262.618	1680.774	#
4)	1-Propanol	2.56	1.94f	130028	87098	5834.128	1767.750	#
5)	2-Propanol	1.80	1.36f	101286	75996	4881.219	1817.820	#
6)	Isobutanol	3.36	2.89	154201	99160	5610.062	1598.435	#
7)	1-Butanol	3.80	3.38	146566	98125	5985.585	1895.530	#
8)	2-Butanol	2.99	2.51f	134482	91690	5336.932	1855.530	#

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

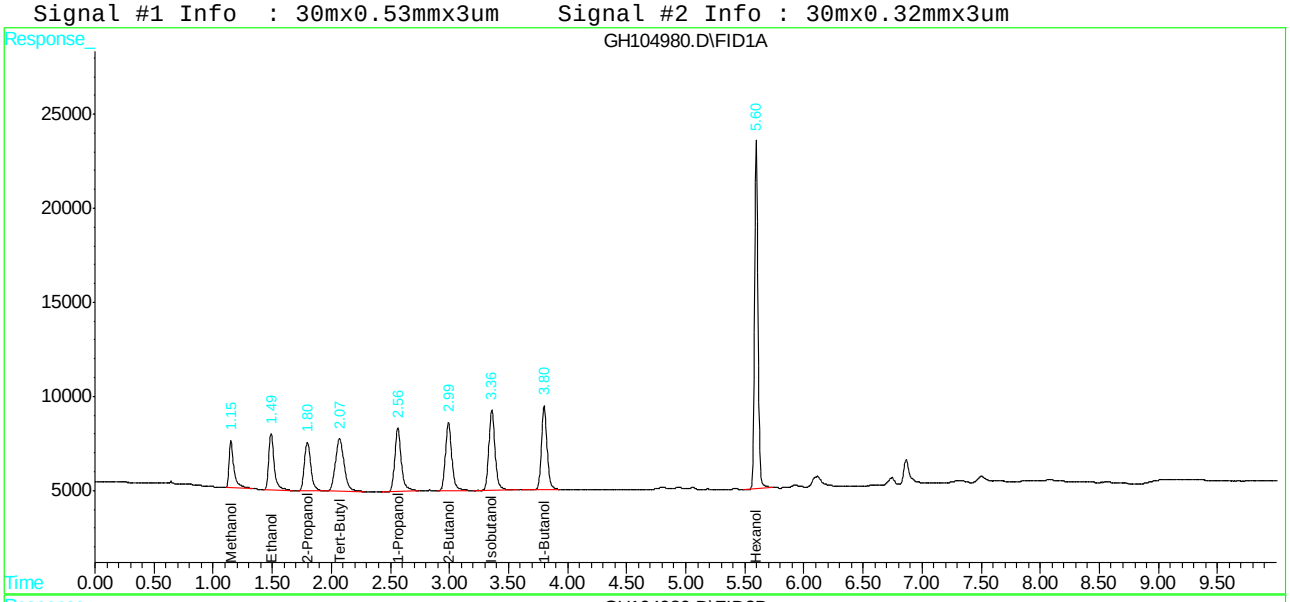
Quantitation Report (QT Reviewed)

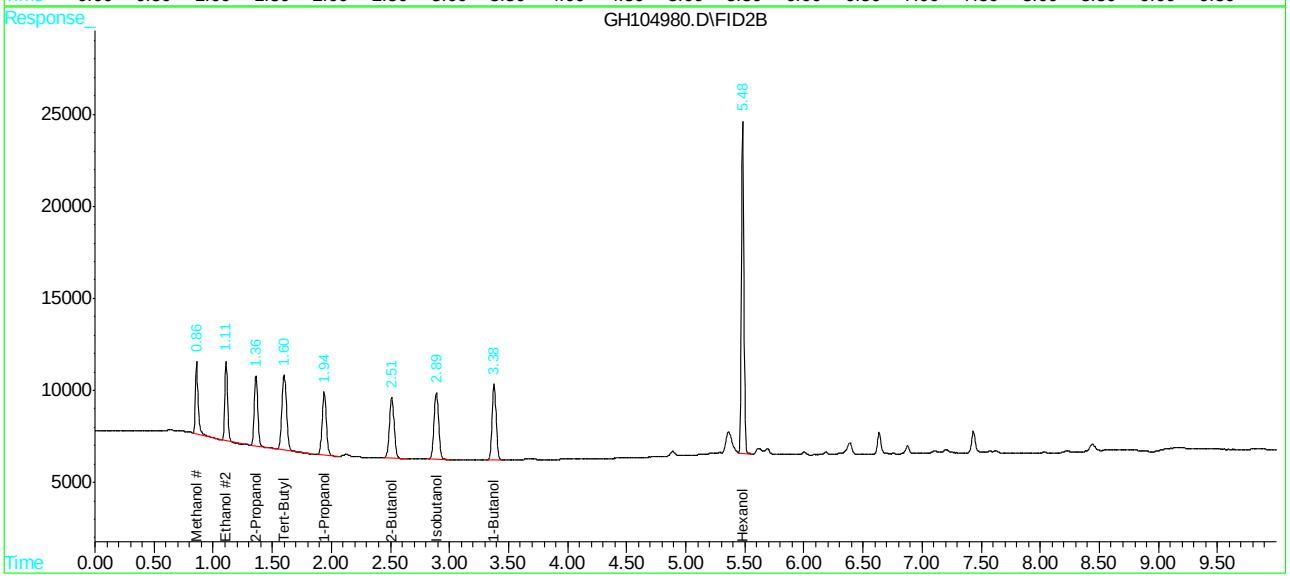
```
Data File : C:\HPCHEM\1\DATA\GH104980.D\FID1A.CH          Vial: 90
Acq On    : 16 May 2016   9:21 pm                     Operator: XULIU
Sample    : CC5269-5000                               Inst    : GCGH
Misc      : GC48420,GGH5285,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH104980.D\FID2B.CH          Vial: 90
Acq On    : 16 May 2016   9:36 pm                     Operator: XULIU
Sample    : CC5269-5000                               Inst    : GCGH
Misc      : GC48420,GGH5285,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 17  8:05 2016  Quant Results File: MGH5269.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5269.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Tue May 17 07:48:39 2016
Response via : Multiple Level Calibration
DataAcq Meth : MGH5269.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```





Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH104987.D\FID1A.CH          Vial: 95
Acq On    : 16 May 2016  11:17 pm                     Operator: XULIU
Sample    : CC5269-10000                              Inst    : GCGH
Misc      : GC48423,GGH5285,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH104987.D\FID2B.CH          Vial: 95
Acq On    : 16 May 2016  11:31 pm                     Operator: XULIU
Sample    : CC5269-10000                              Inst    : GCGH
Misc      : GC48423,GGH5285,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 17  8:25 2016  Quant Results File: MGH5269.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5269.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Tue May 17 07:48:39 2016
Response via : Initial Calibration
DataAcq Meth : MGH5269.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
9) S	Hexanol	5.60	5.48	322562	226870	4215.726	1378.532 #
	Spiked Amount 5000.000			Recovery	=	84.31%	27.57%
	Target Compounds						
1)	Methanol	1.15	0.86	159266	116138	10783.835	5712.929 #
2)	Ethanol	1.49	1.11	195256	133332	10434.606	4196.215 #
3)	Tert-Butyl Alcoh	2.07	1.60	286883	214282	10507.232	3281.842 #
4)	1-Propanol	2.56	1.94f	265353	172058	11905.946	3492.111 #
5)	2-Propanol	1.80	1.36f	207401	150196	9995.159	3592.663 #
6)	Isobutanol	3.36	2.89	299158	269838	10883.820	4349.707 #
7)	1-Butanol	3.80	3.38	288496	190698	11781.823	3683.795 #
8)	2-Butanol	2.99	2.51f	264998	183195	10516.460	3707.332 #

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

SGS ACCUTEST JC20098

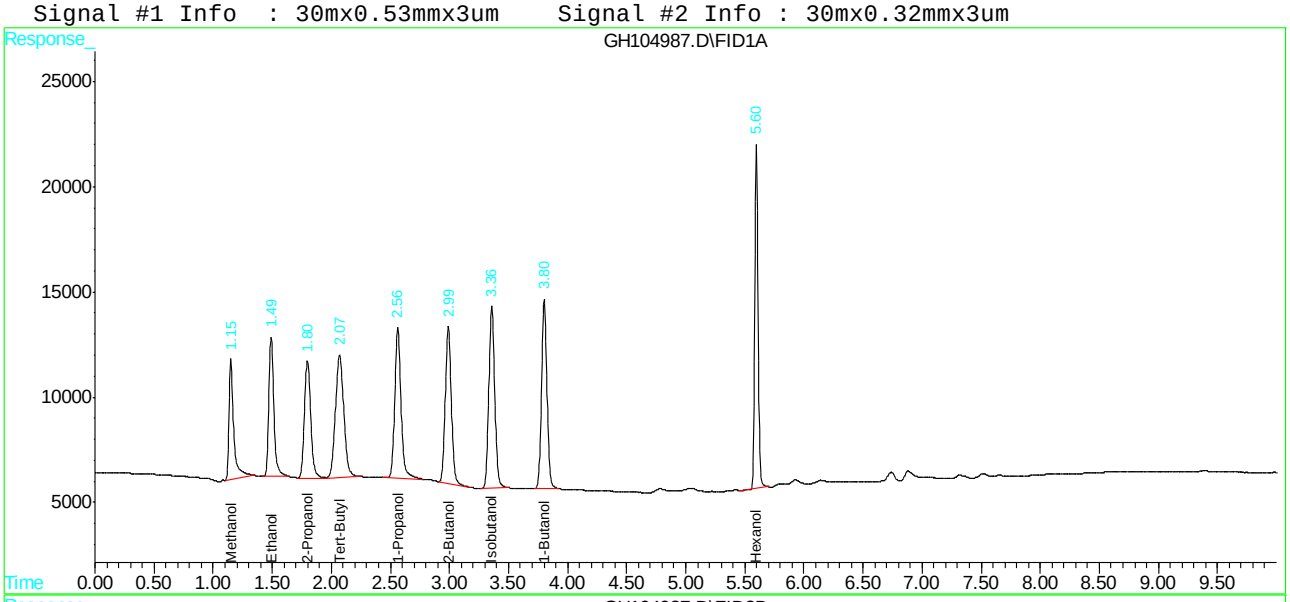
Quantitation Report (QT Reviewed)

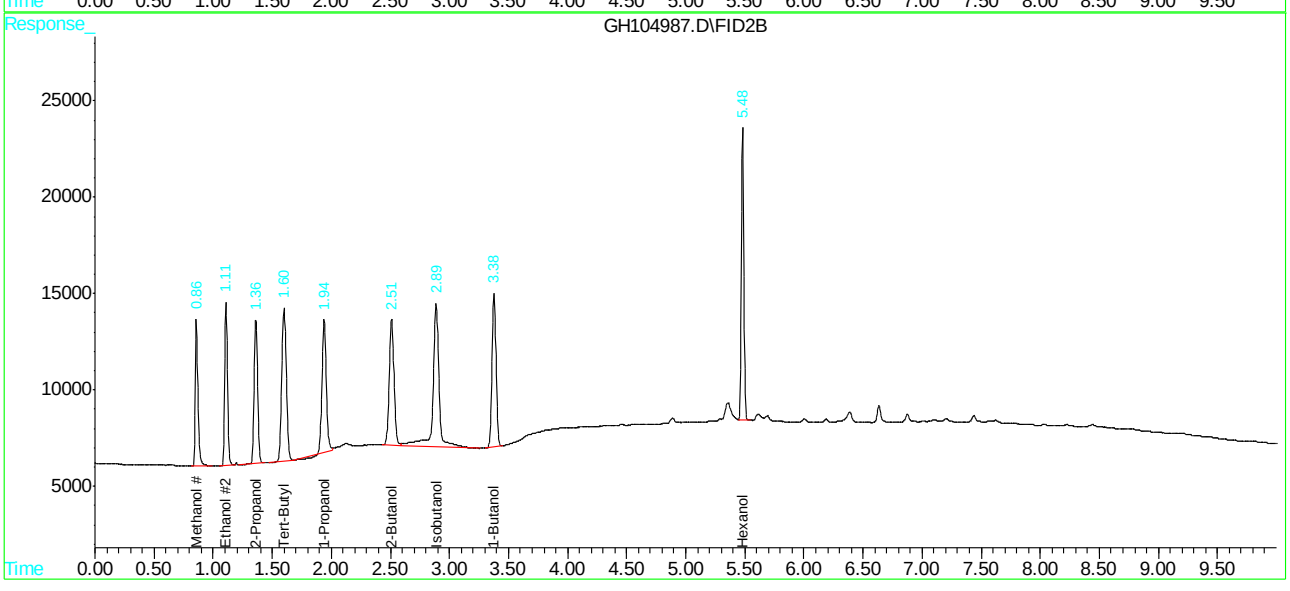
```
Data File : C:\HPCHEM\1\DATA\GH104987.D\FID1A.CH          Vial: 95
Acq On    : 16 May 2016  11:17 pm                     Operator: XULIU
Sample    : CC5269-10000                              Inst    : GCGH
Misc      : GC48423,GGH5285,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH104987.D\FID2B.CH          Vial: 95
Acq On    : 16 May 2016  11:31 pm                     Operator: XULIU
Sample    : CC5269-10000                              Inst    : GCGH
Misc      : GC48423,GGH5285,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 17  8:25 2016  Quant Results File: MGH5269.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5269.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Tue May 17 07:48:39 2016
Response via : Multiple Level Calibration
DataAcq Meth : MGH5269.M

Volume Inj.      : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```





Manual Integrations
APPROVED
(compounds with "m" flag)
Owen McKenna
05/18/16 09:16

Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH105017.D\FID1A.CH          Vial: 2
Acq On    : 17 May 2016   4:14 pm                     Operator: XULIU
Sample    : IC5288-100                                Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105017.D\FID2B.CH          Vial: 2
Acq On    : 17 May 2016   4:28 pm                     Operator: XULIU
Sample    : IC5288-100                                Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 18  8:50 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Wed May 18 07:34:35 2016
Response via : Initial Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
9) S	Hexanol	5.57	5.50	49213	113892	786.392	792.225
Spiked Amount	5000.000			Recovery	=	15.73%	15.84%
	Target Compounds						
1)	Methanol	1.12	0.89f	1784	2982	115.427	93.713m
2)	Ethanol	1.45	1.15	2099	3361	110.763	84.901m
3)	Tert-Butyl Alcoh	2.01	1.66	2806	5629	99.020	88.524
4)	1-Propanol	2.52	2.03	2187	3458	89.885	69.117m
5)	2-Propanol	1.75	1.41	1888	4004	94.702	88.437
6)	Isobutanol	3.32	2.95f	2784	6044	96.777	98.728
7)	1-Butanol	3.76	3.42	3014	7445	105.546	113.606m
8)	2-Butanol	2.95	2.57	2840	4510	121.739m	83.638m

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

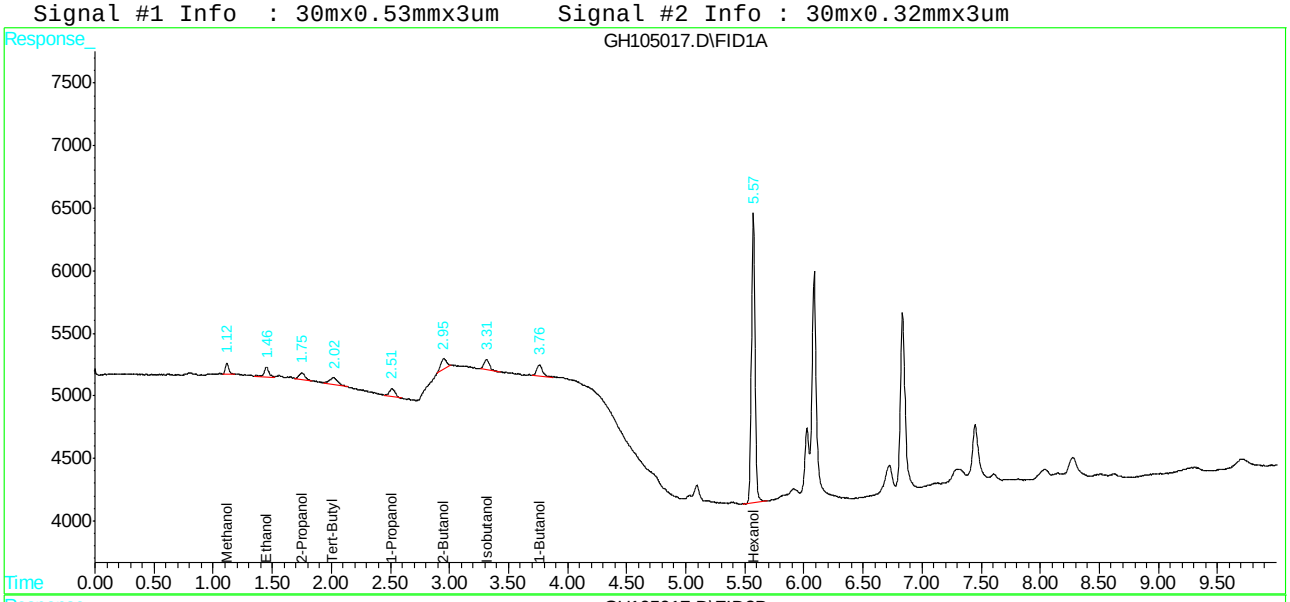
Quantitation Report (QT Reviewed)

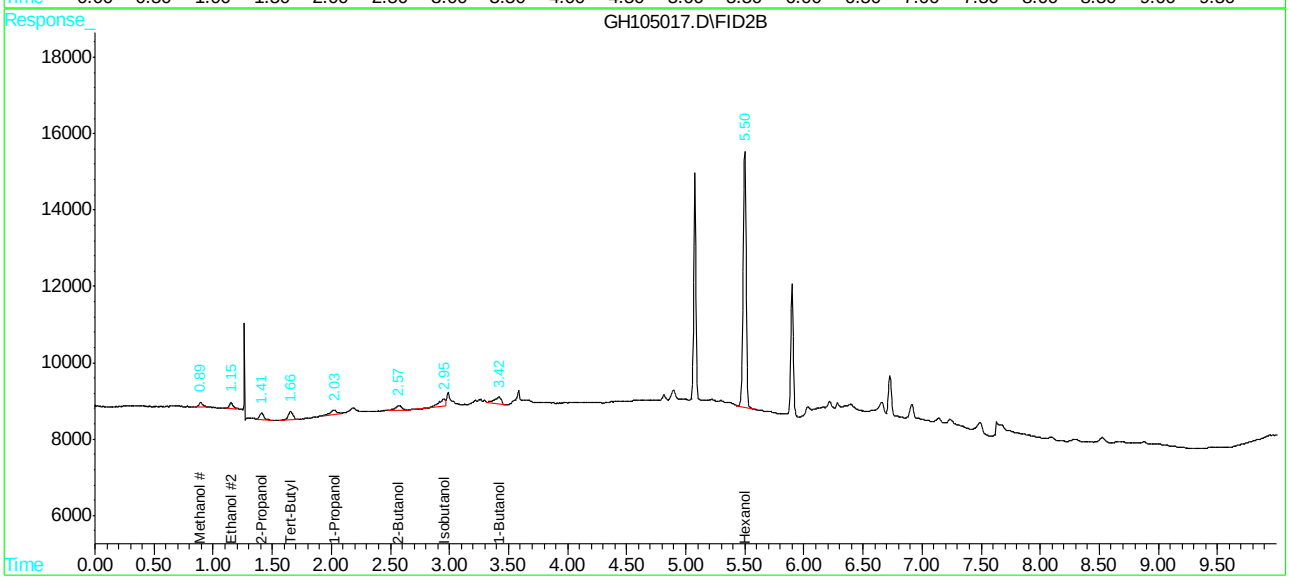
```
Data File : C:\HPCHEM\1\DATA\GH105017.D\FID1A.CH          Vial: 2
Acq On    : 17 May 2016   4:14 pm                     Operator: XULIU
Sample    : IC5288-100                                Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105017.D\FID2B.CH          Vial: 2
Acq On    : 17 May 2016   4:28 pm                     Operator: XULIU
Sample    : IC5288-100                                Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 18  8:50 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Wed May 18 07:34:35 2016
Response via : Multiple Level Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```





Manual Integration Approval Summary

Sample Number:	GGH5288-IC5288	**Method:**	SW846-8015C (DAI)
Lab FileID:	GH105017.D	**Analyst approved:**	05/18/16 09:10 Xu Liu
Injection Time:	05/17/16 16:14	**Supervisor approved:**	05/18/16 09:16 Owen McKenna

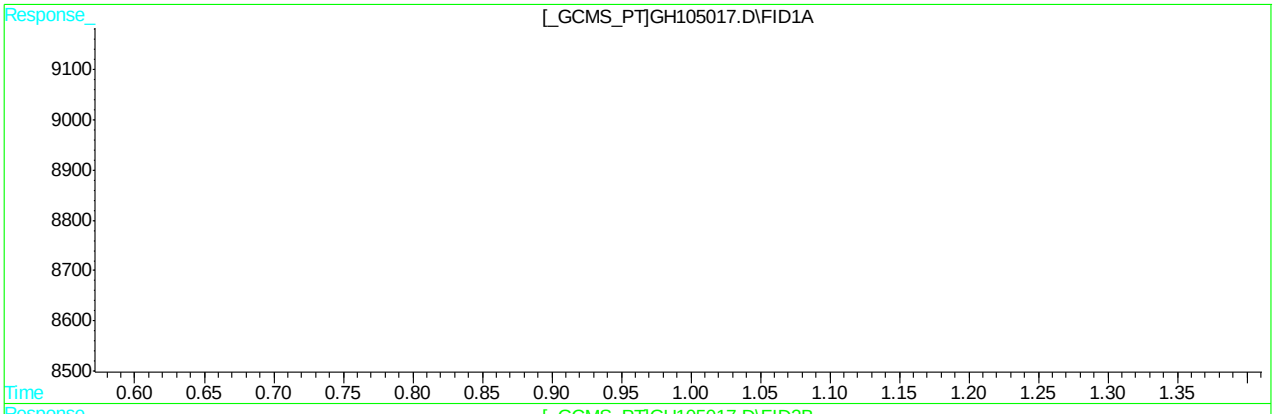
Parameter	CAS	Sig#	R.T. (min.)	Reason
Methanol	67-56-1	2	0.89	Poor instrument integration
Ethanol	64-17-5	2	1.15	Poor instrument integration
n-Propyl Alcohol	71-23-8	2	2.03	Poor instrument integration
sec-Butyl Alcohol	78-92-2	2	2.57	Poor instrument integration
sec-Butyl Alcohol	78-92-2	1	2.95	Poor instrument integration
n-Butyl Alcohol	71-36-3	2	3.42	Poor instrument integration

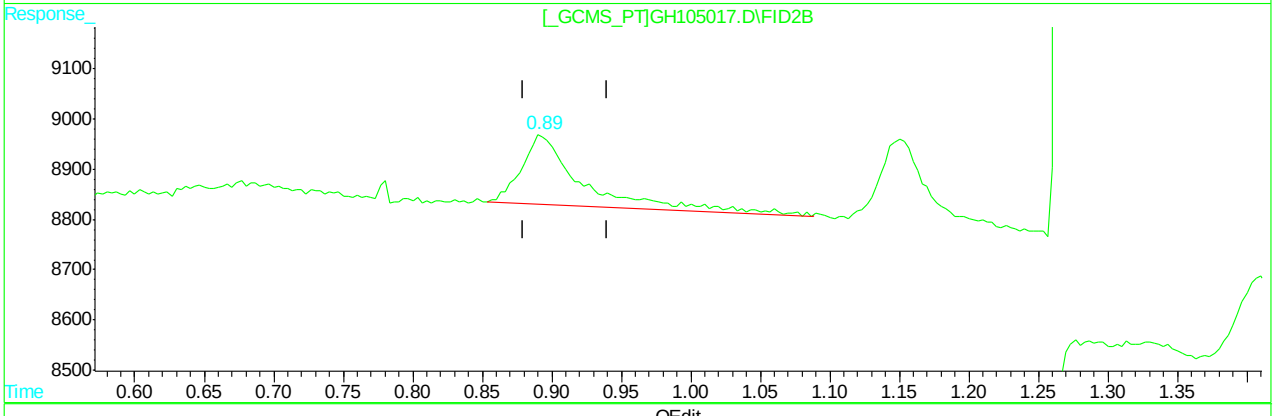
Quantitation Report (Qedit)

```
Data File : C:\HPCHEM\1\DATA\GH105017.D\FID1A.CH          Vial: 2
Acq On    : 17 May 2016   4:14 pm                     Operator: XULIU
Sample    : IC5288-100                                Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105017.D\FID2B.CH          Vial: 2
Acq On    : 17 May 2016   4:28 pm                     Operator: XULIU
Sample    : IC5288-100                                Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 18  7:37 2016  Quant Results File: MGH5288.RES


Method       : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Wed May 18 07:34:35 2016
Response via : Multiple Level Calibration
```





QEdit

(1) Methanol

1.12min 115.427PPB

response 1784

(1) Methanol #2

0.89min 132.645PPB

response 4221

(+) = Expected Retention Time

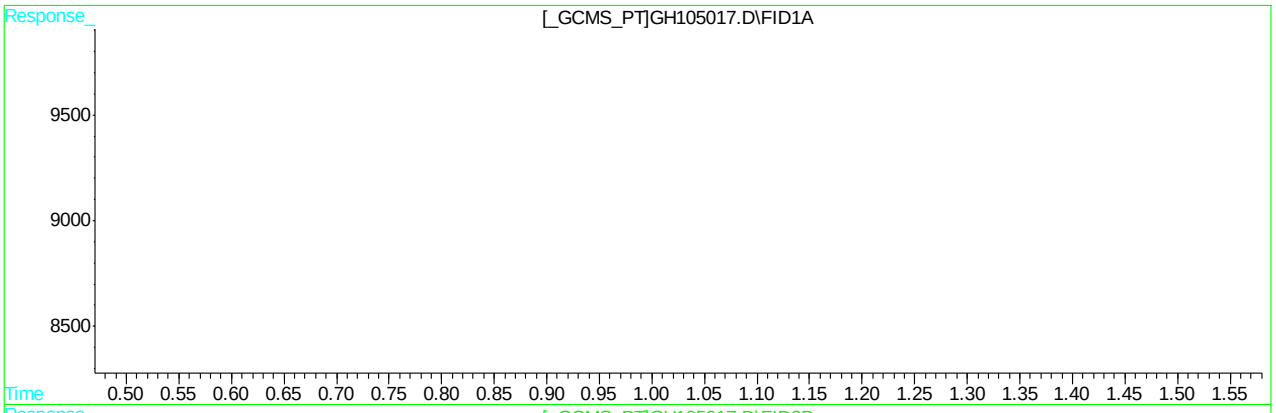
GH105017.D MGH5288.M Wed May 18 08:43:56 2016 GCGH

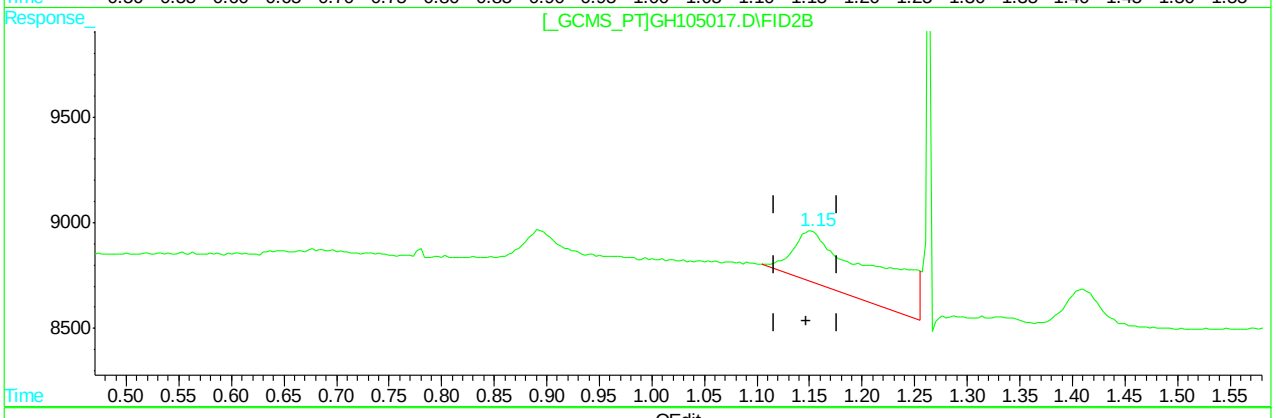
Quantitation Report (Qedit)

```
Data File : C:\HPCHEM\1\DATA\GH105017.D\FID1A.CH          Vial: 2
Acq On    : 17 May 2016   4:14 pm                     Operator: XULIU
Sample    : IC5288-100                                Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105017.D\FID2B.CH          Vial: 2
Acq On    : 17 May 2016   4:28 pm                     Operator: XULIU
Sample    : IC5288-100                                Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 18  7:37 2016  Quant Results File: MGH5288.RES


Method       : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Wed May 18 07:34:35 2016
Response via : Multiple Level Calibration
```





QEdit

(2) Ethanol

1.45min 110.763PPB

response 2099

(2) Ethanol #2

1.15min 367.751PPB

response 14557

(+) = Expected Retention Time

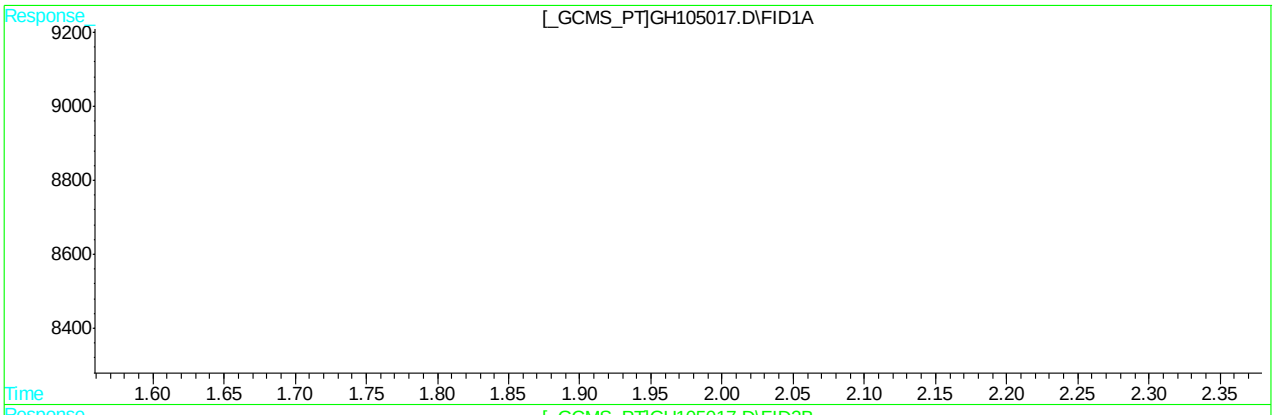
GH105017.D MGH5288.M Wed May 18 08:44:26 2016 GCGH

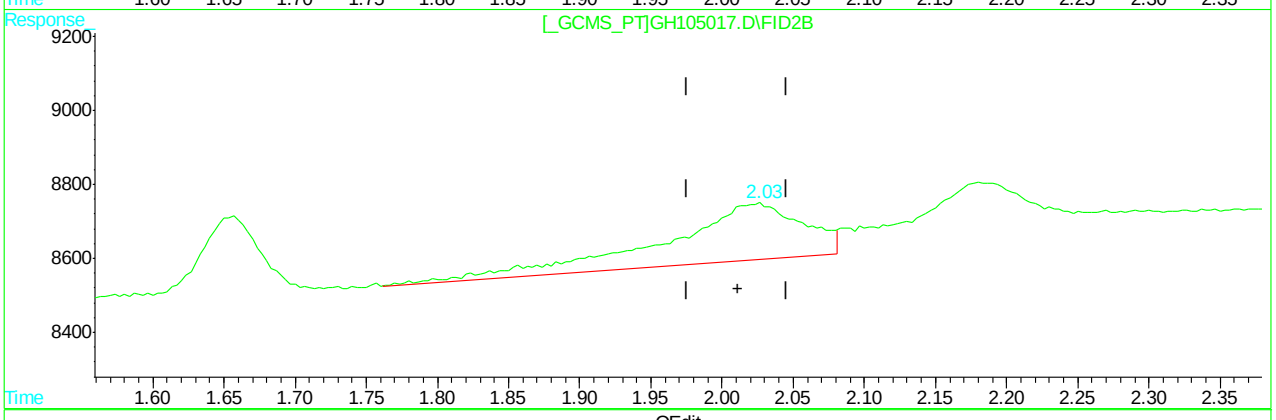
Quantitation Report (Qedit)

```
Data File : C:\HPCHEM\1\DATA\GH105017.D\FID1A.CH          Vial: 2
Acq On    : 17 May 2016   4:14 pm                     Operator: XULIU
Sample    : IC5288-100                                Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105017.D\FID2B.CH          Vial: 2
Acq On    : 17 May 2016   4:28 pm                     Operator: XULIU
Sample    : IC5288-100                                Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 18  7:37 2016  Quant Results File: MGH5288.RES


Method       : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Wed May 18 07:34:35 2016
Response via : Multiple Level Calibration
```





QEdit

(4) 1-Propanol

2.52min 89.885PPB

response 2187

(4) 1-Propanol #2

2.03min 209.050PPB

response 10460

(+) = Expected Retention Time

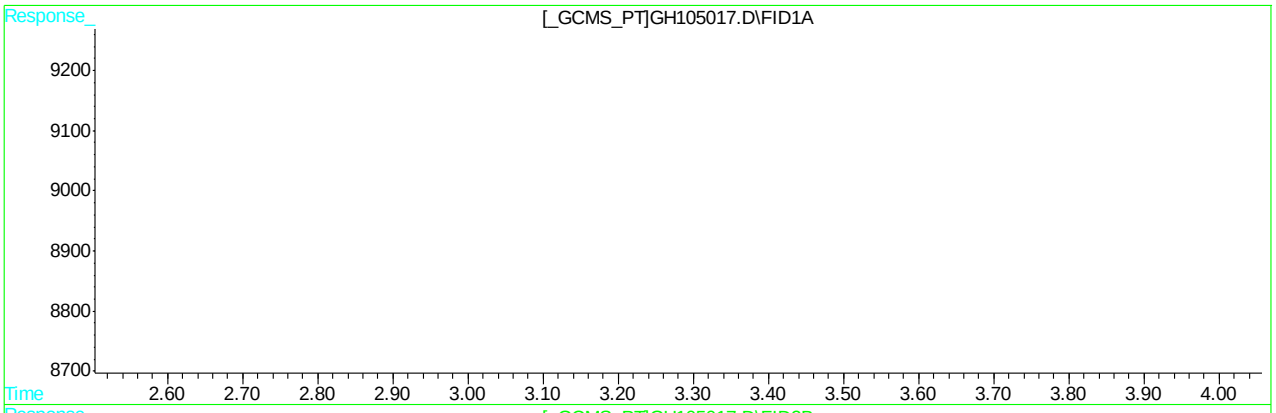
GH105017.D MGH5288.M Wed May 18 08:44:42 2016 GCGH

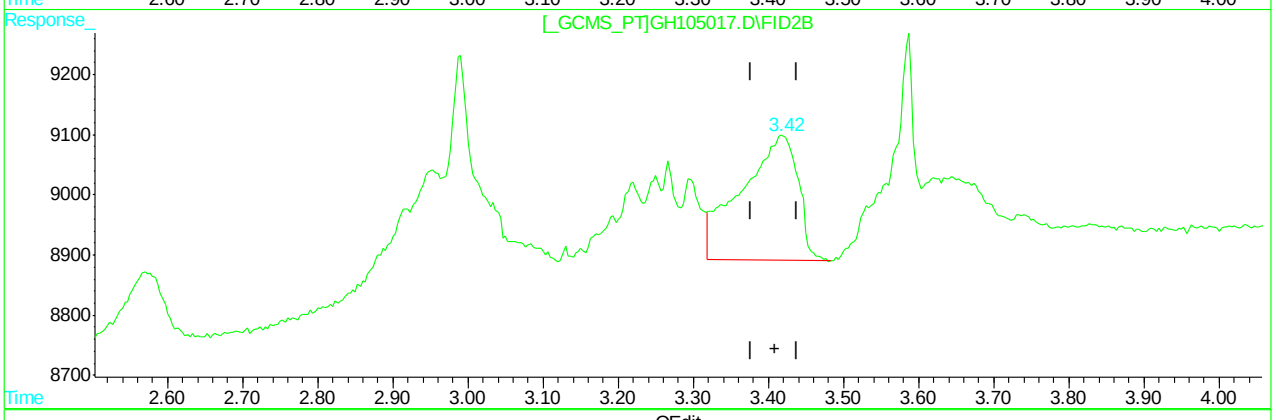
Quantitation Report (Qedit)

```
Data File : C:\HPCHEM\1\DATA\GH105017.D\FID1A.CH          Vial: 2
Acq On    : 17 May 2016   4:14 pm                     Operator: XULIU
Sample    : IC5288-100                                Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105017.D\FID2B.CH          Vial: 2
Acq On    : 17 May 2016   4:28 pm                     Operator: XULIU
Sample    : IC5288-100                                Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 18  7:37 2016  Quant Results File: MGH5288.RES


Method       : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Wed May 18 07:34:35 2016
Response via : Multiple Level Calibration
```





QEdit

(7) 1-Butanol

3.76min 105.546PPB

response 3014

(7) 1-Butanol #2

3.42min 167.388PPB

response 10970

(+) = Expected Retention Time

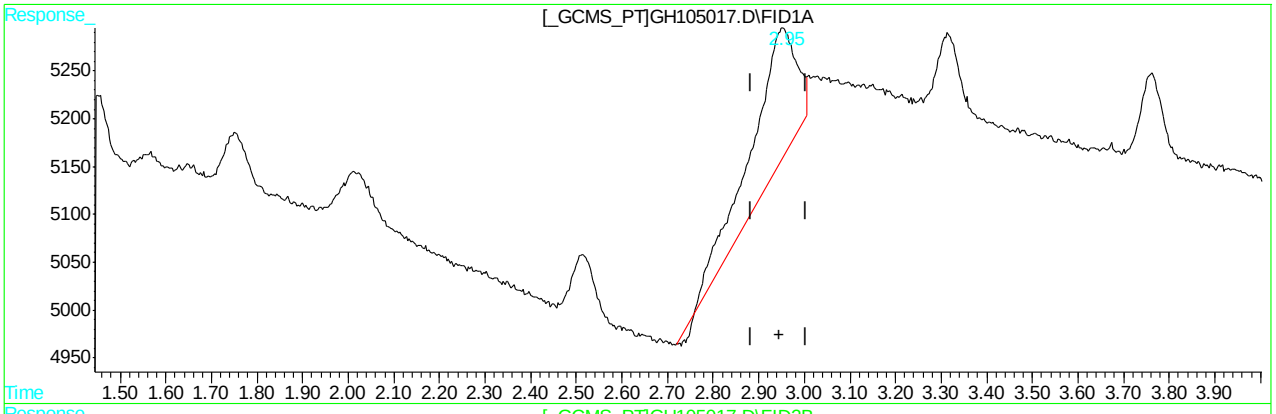
GH105017.D MGH5288.M Wed May 18 08:45:02 2016 GCGH

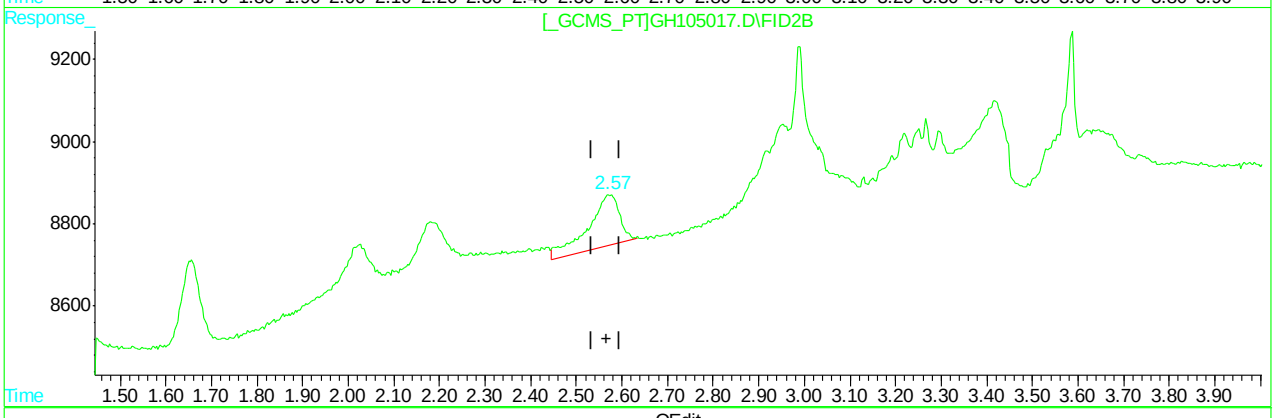
Quantitation Report (Qedit)

```
Data File : C:\HPCHEM\1\DATA\GH105017.D\FID1A.CH          Vial: 2
Acq On    : 17 May 2016   4:14 pm                     Operator: XULIU
Sample    : IC5288-100                                Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105017.D\FID2B.CH          Vial: 2
Acq On    : 17 May 2016   4:28 pm                     Operator: XULIU
Sample    : IC5288-100                                Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 18  7:37 2016  Quant Results File: MGH5288.RES


Method       : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Wed May 18 07:34:35 2016
Response via : Multiple Level Calibration
```





QEdit

(8) 2-Butanol

2.95min 395.696PPB

response 9232

(8) 2-Butanol #2

2.57min 109.800PPB

response 5921

(+) = Expected Retention Time

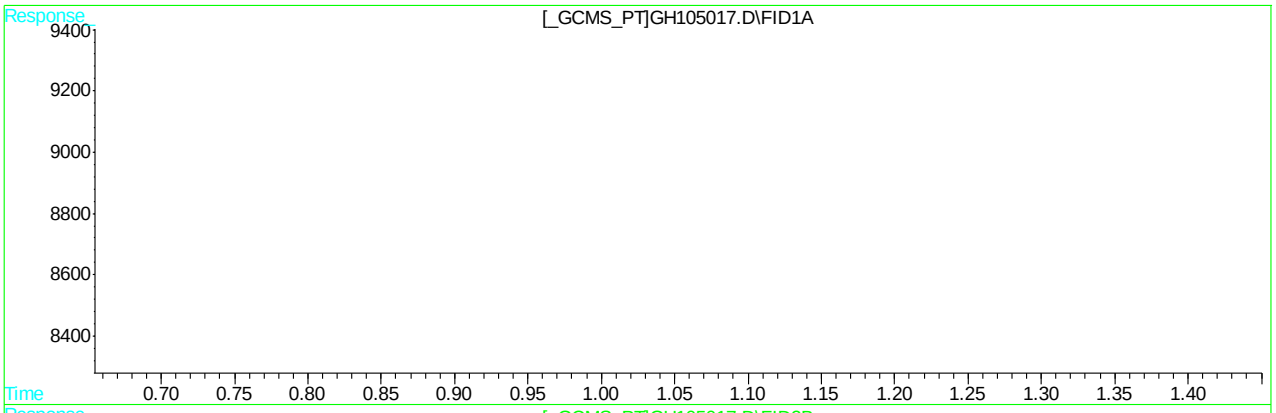
GH105017.D MGH5288.M Wed May 18 08:45:09 2016 GCGH

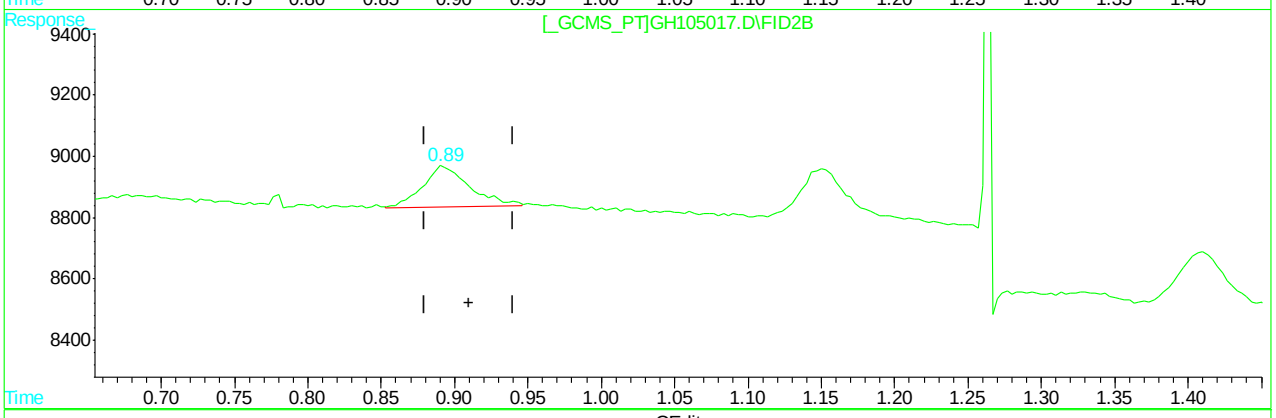
Quantitation Report (Qedit)

```
Data File : C:\HPCHEM\1\DATA\GH105017.D\FID1A.CH          Vial: 2
Acq On    : 17 May 2016   4:14 pm                     Operator: XULIU
Sample    : IC5288-100                                Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105017.D\FID2B.CH          Vial: 2
Acq On    : 17 May 2016   4:28 pm                     Operator: XULIU
Sample    : IC5288-100                                Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 18  7:37 2016  Quant Results File: MGH5288.RES


Method       : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Wed May 18 07:34:35 2016
Response via : Multiple Level Calibration
```





QEdit

(1) Methanol

1.12min 115.427PPB

response 1784

(1) Methanol #2

0.89min 93.713PPB m

response 2982

(+) = Expected Retention Time

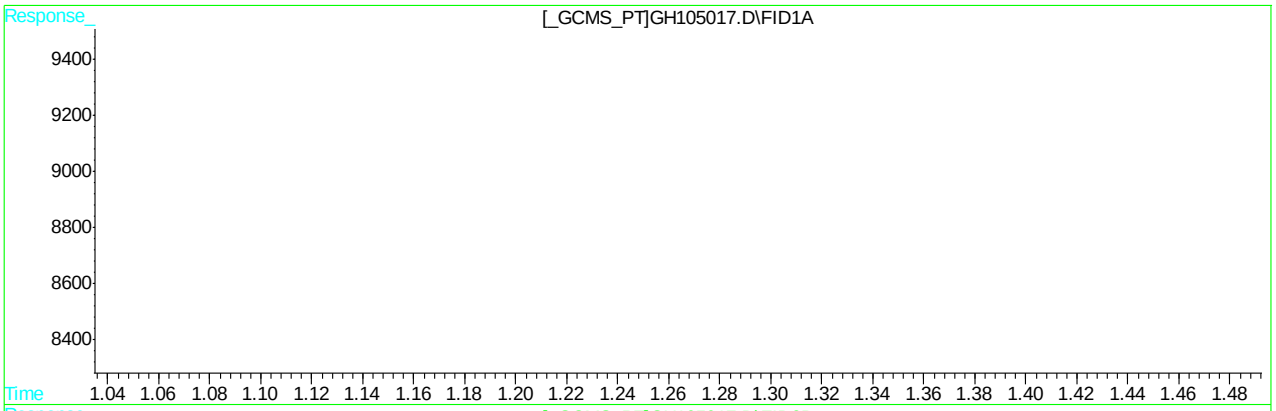
GH105017.D MGH5288.M Wed May 18 08:46:19 2016 GCGH

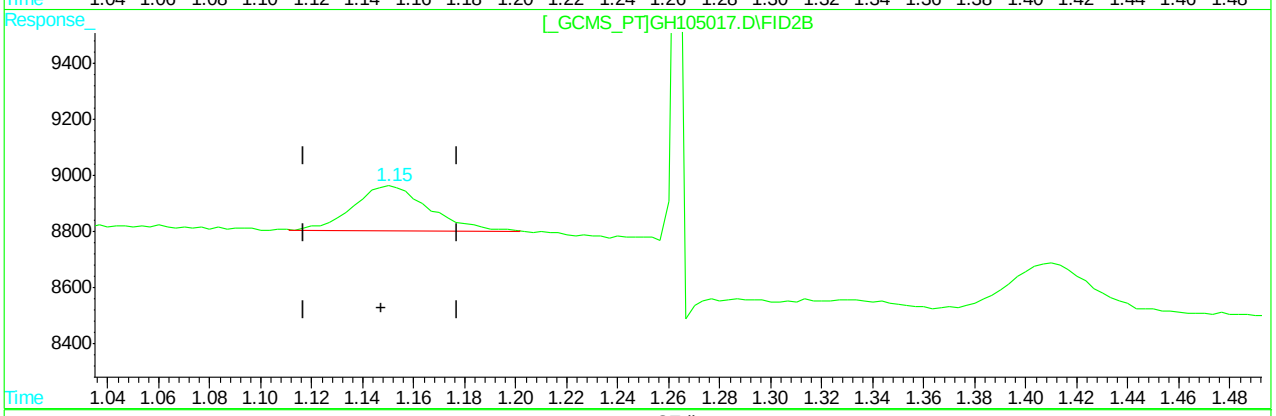
Quantitation Report (Qedit)

```
Data File : C:\HPCHEM\1\DATA\GH105017.D\FID1A.CH          Vial: 2
Acq On    : 17 May 2016   4:14 pm                     Operator: XULIU
Sample    : IC5288-100                                Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105017.D\FID2B.CH          Vial: 2
Acq On    : 17 May 2016   4:28 pm                     Operator: XULIU
Sample    : IC5288-100                                Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 18  7:37 2016  Quant Results File: MGH5288.RES


Method       : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Wed May 18 07:34:35 2016
Response via : Multiple Level Calibration
```





QEdit

(2) Ethanol

1.45min 110.763PPB

response 2099

(2) Ethanol #2

1.15min 84.901PPB m

response 3361

(+) = Expected Retention Time

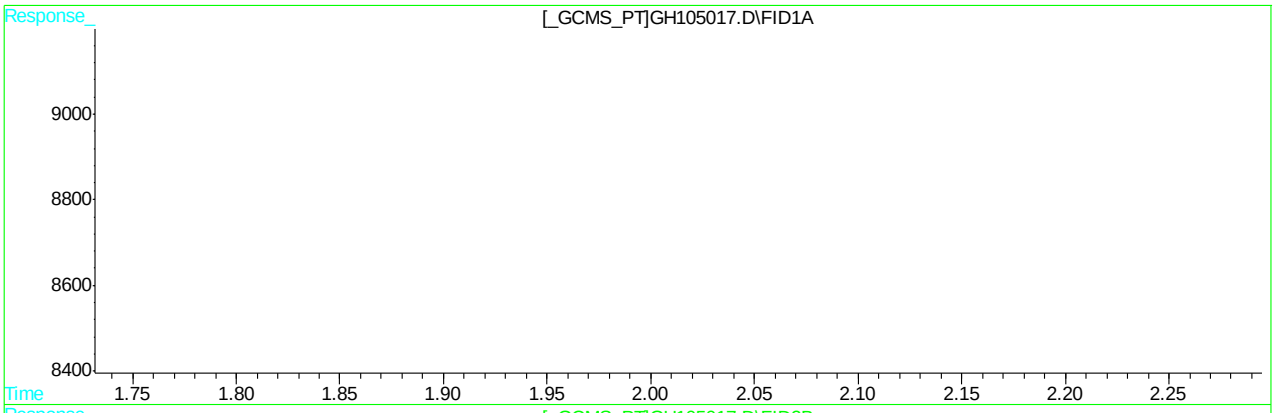
GH105017.D MGH5288.M Wed May 18 08:46:55 2016 GCGH

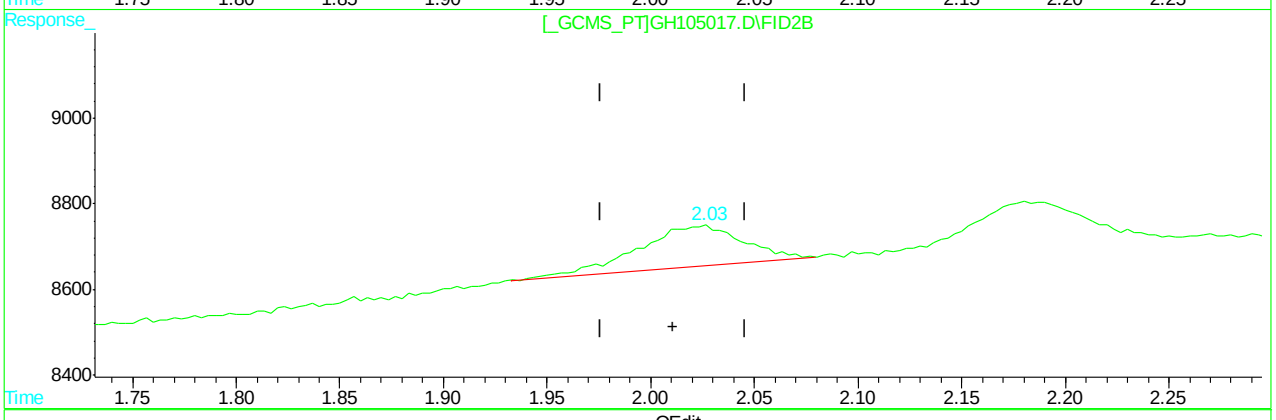
Quantitation Report (Qedit)

```
Data File : C:\HPCHEM\1\DATA\GH105017.D\FID1A.CH          Vial: 2
Acq On    : 17 May 2016   4:14 pm                     Operator: XULIU
Sample    : IC5288-100                                Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105017.D\FID2B.CH          Vial: 2
Acq On    : 17 May 2016   4:28 pm                     Operator: XULIU
Sample    : IC5288-100                                Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 18  7:37 2016  Quant Results File: MGH5288.RES


Method       : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Wed May 18 07:34:35 2016
Response via : Multiple Level Calibration
```





QEdit

(4) 1-Propanol

2.52min 89.885PPB

response 2187

(4) 1-Propanol #2

2.03min 69.117PPB m

response 3458

(+) = Expected Retention Time

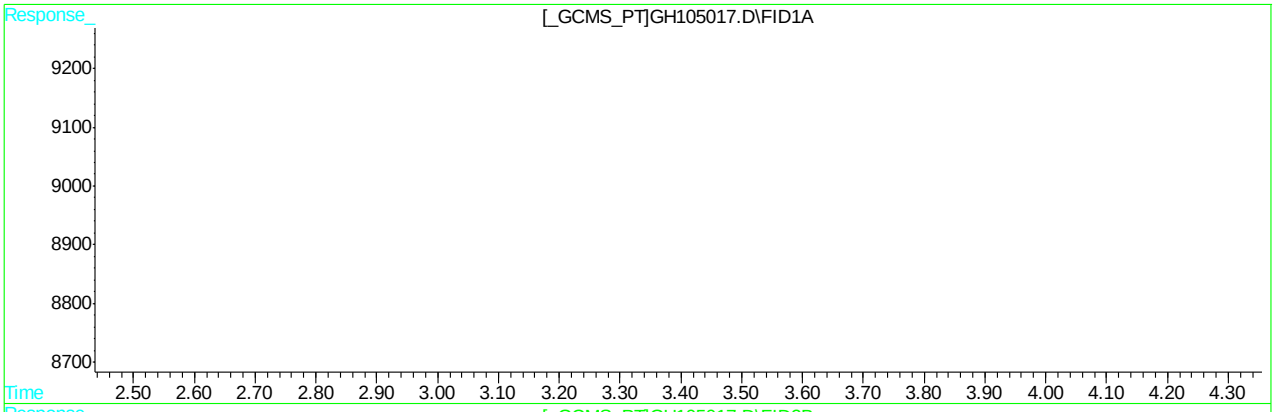
GH105017.D MGH5288.M Wed May 18 08:48:45 2016 GCGH

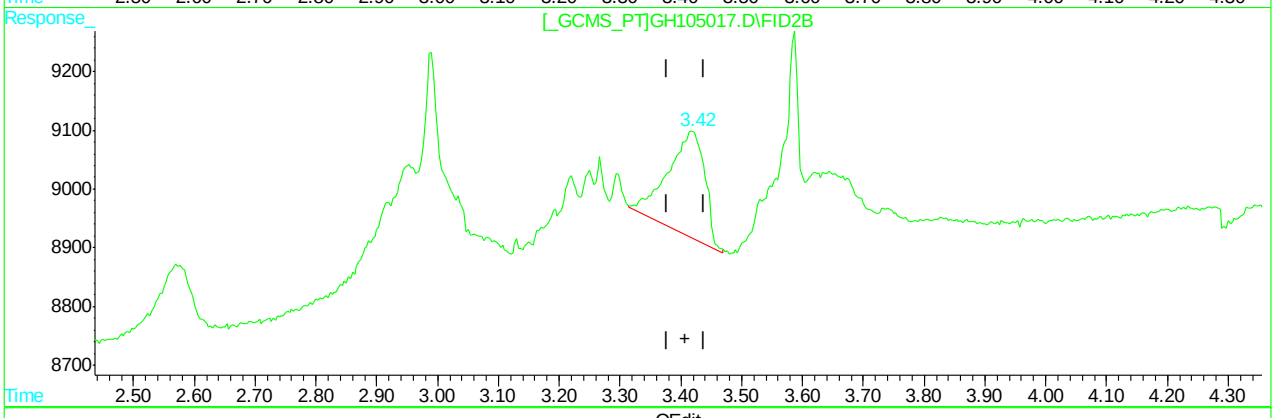
Quantitation Report (Qedit)

```
Data File : C:\HPCHEM\1\DATA\GH105017.D\FID1A.CH          Vial: 2
Acq On    : 17 May 2016   4:14 pm                     Operator: XULIU
Sample    : IC5288-100                                Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105017.D\FID2B.CH          Vial: 2
Acq On    : 17 May 2016   4:28 pm                     Operator: XULIU
Sample    : IC5288-100                                Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 18  7:37 2016  Quant Results File: MGH5288.RES


Method       : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Wed May 18 07:34:35 2016
Response via : Multiple Level Calibration
```





QEdit

(7) 1-Butanol

3.76min 105.546PPB

response 3014

(7) 1-Butanol #2

3.42min 113.606PPB m

response 7445

(+) = Expected Retention Time

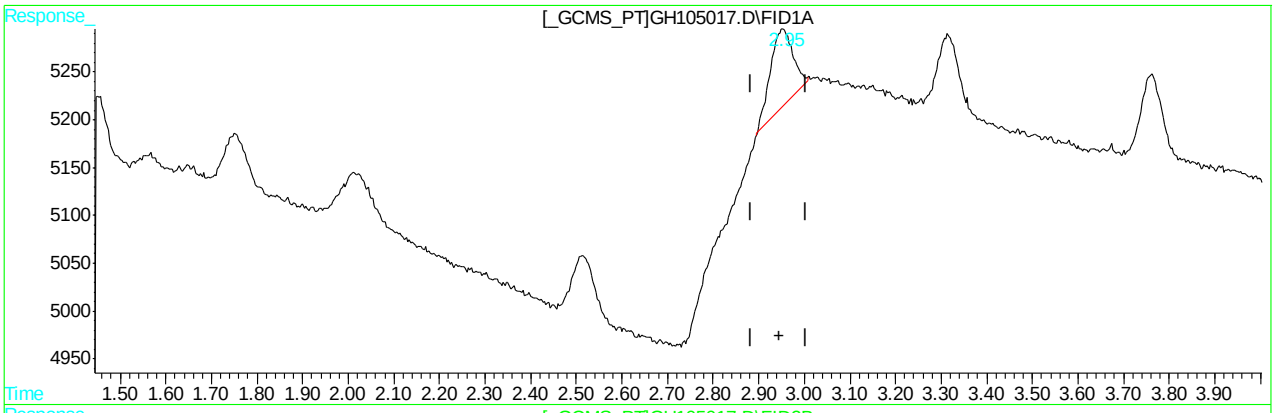
GH105017.D MGH5288.M Wed May 18 08:49:10 2016 GCGH

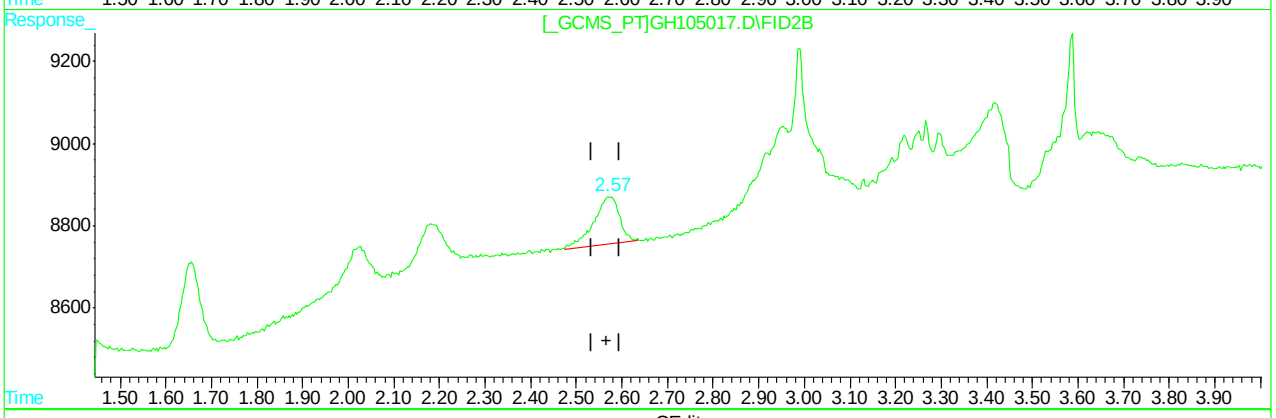
Quantitation Report (Qedit)

```
Data File : C:\HPCHEM\1\DATA\GH105017.D\FID1A.CH          Vial: 2
Acq On    : 17 May 2016   4:14 pm                     Operator: XULIU
Sample    : IC5288-100                                Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105017.D\FID2B.CH          Vial: 2
Acq On    : 17 May 2016   4:28 pm                     Operator: XULIU
Sample    : IC5288-100                                Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 18  7:37 2016  Quant Results File: MGH5288.RES


Method       : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Wed May 18 07:34:35 2016
Response via : Multiple Level Calibration
```





QEdit

(8) 2-Butanol

2.95min 121.739PPB m

response 2840

(8) 2-Butanol #2

2.57min 83.638PPB m

response 4510

(+) = Expected Retention Time

GH105017.D MGH5288.M Wed May 18 08:50:46 2016 GCGH

Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH105018.D\FID1A.CH          Vial: 3
Acq On    : 17 May 2016   4:28 pm                     Operator: XULIU
Sample    : IC5288-500                                Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105018.D\FID2B.CH          Vial: 3
Acq On    : 17 May 2016   4:43 pm                     Operator: XULIU
Sample    : IC5288-500                                Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 18  7:23 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Wed May 18 07:22:56 2016
Response via : Initial Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
9) S	Hexanol	5.57	5.50	133226	309222	2149.239	2179.587
	Spiked Amount 5000.000			Recovery	=	42.98%	43.59%
	Target Compounds						
1)	Methanol	1.12	0.90	7371	16974	487.375	523.867
2)	Ethanol	1.45	1.15	7403	20315	382.175	495.986
3)	Tert-Butyl Alcoh	2.02	1.65	13219	32642	459.462	504.499
4)	1-Propanol	2.52	2.01	11323	26078	450.160	484.442
5)	2-Propanol	1.75	1.41	8826	24643	428.510	541.309
6)	Isobutanol	3.32	2.95f	14018	31821	481.673	522.579
7)	1-Butanol	3.76	3.41	14489	37291	514.513	593.512
8)	2-Butanol	2.95	2.57	11839	27554	464.803	492.431

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

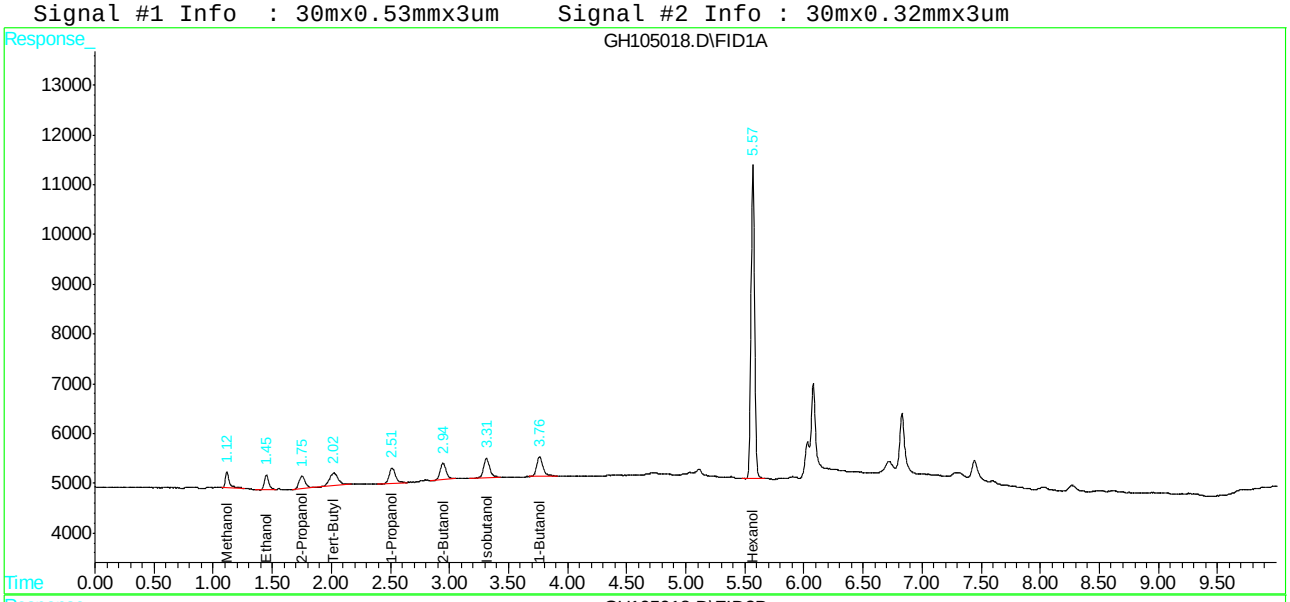
Quantitation Report (QT Reviewed)

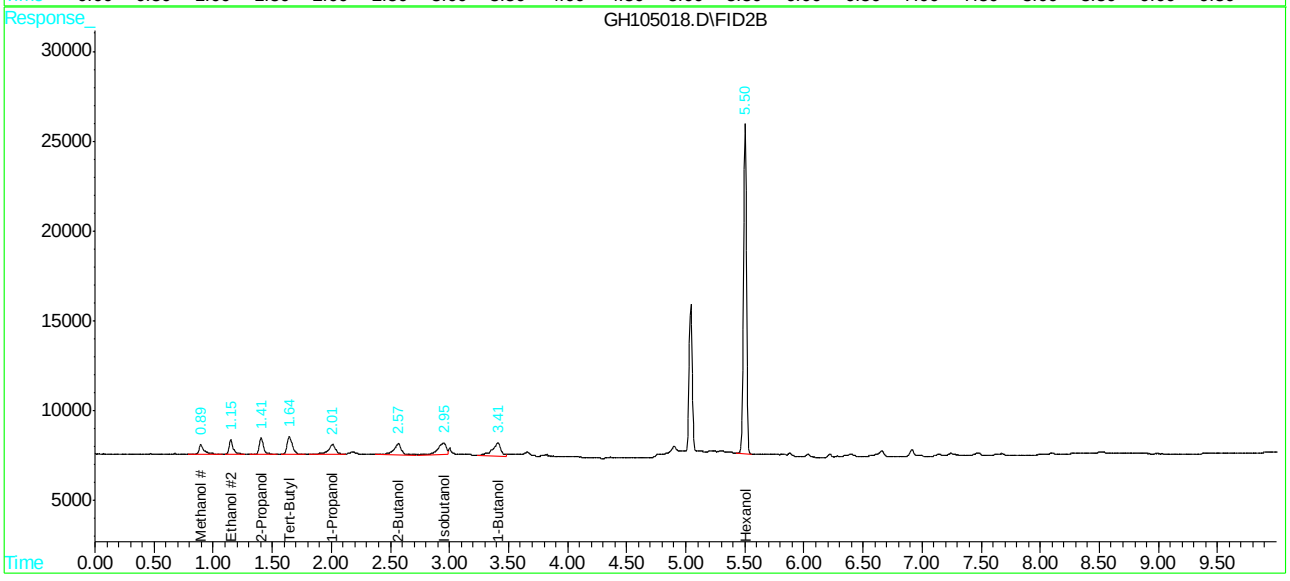
```
Data File : C:\HPCHEM\1\DATA\GH105018.D\FID1A.CH          Vial: 3
Acq On    : 17 May 2016   4:28 pm                     Operator: XULIU
Sample    : IC5288-500                                Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105018.D\FID2B.CH          Vial: 3
Acq On    : 17 May 2016   4:43 pm                     Operator: XULIU
Sample    : IC5288-500                                Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 18  7:23 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Wed May 18 07:22:56 2016
Response via : Multiple Level Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```





SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH105019.D\FID1A.CH          Vial: 4
Acq On    : 17 May 2016   4:43 pm                     Operator: XULIU
Sample    : IC5288-1000                               Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105019.D\FID2B.CH          Vial: 4
Acq On    : 17 May 2016   4:57 pm                     Operator: XULIU
Sample    : IC5288-1000                               Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 18  7:22 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Wed May 18 07:22:21 2016
Response via : Initial Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
9) S	Hexanol	5.57	5.51	274171	622051	4543.104	4492.586
Spiked Amount	5000.000			Recovery	=	90.86%	89.85%
	Target Compounds						
1)	Methanol	1.12	0.92	16166	29685	1087.516	897.349
2)	Ethanol	1.45	1.17f	18855	36354	966.928	863.337
3)	Tert-Butyl Alcoh	2.01	1.66	28949	63750	1007.774	981.673
4)	1-Propanol	2.51	2.02	25248	52807	1004.669	976.309
5)	2-Propanol	1.75	1.42	20497	43421	993.892	942.889
6)	Isobutanol	3.31	2.94	29498	59602	1017.007	973.641
7)	1-Butanol	3.76	3.42	29408	73648	1055.991	1224.889
8)	2-Butanol	2.94	2.57	25576	58599	1005.126	1059.749

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

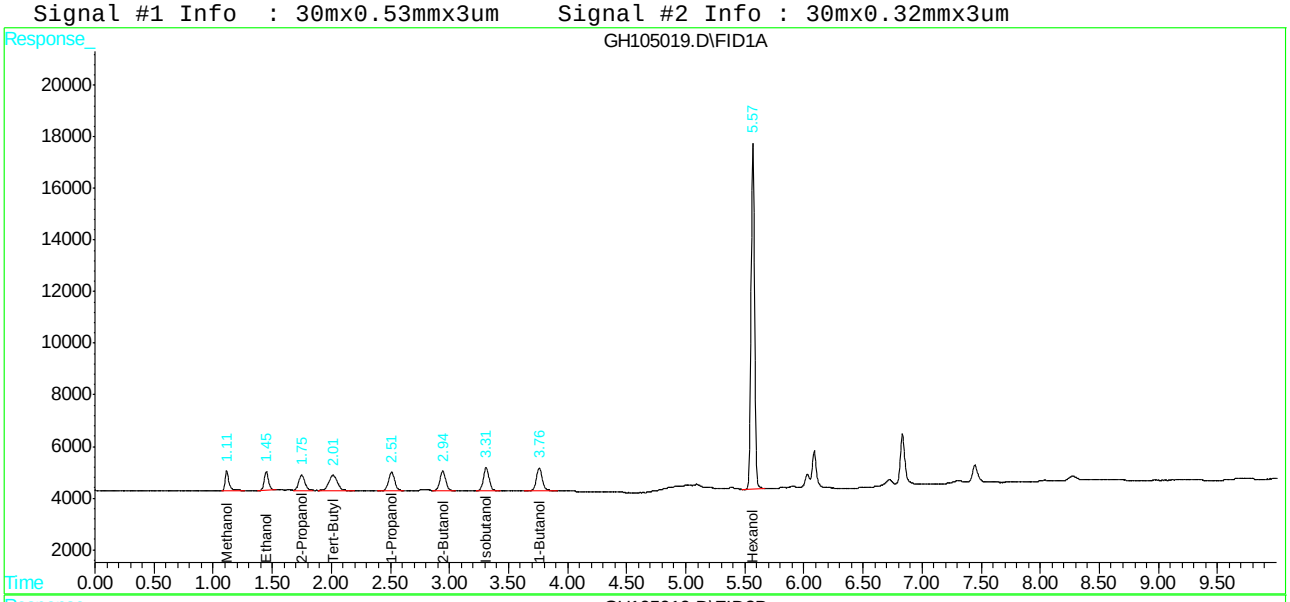
Quantitation Report (QT Reviewed)

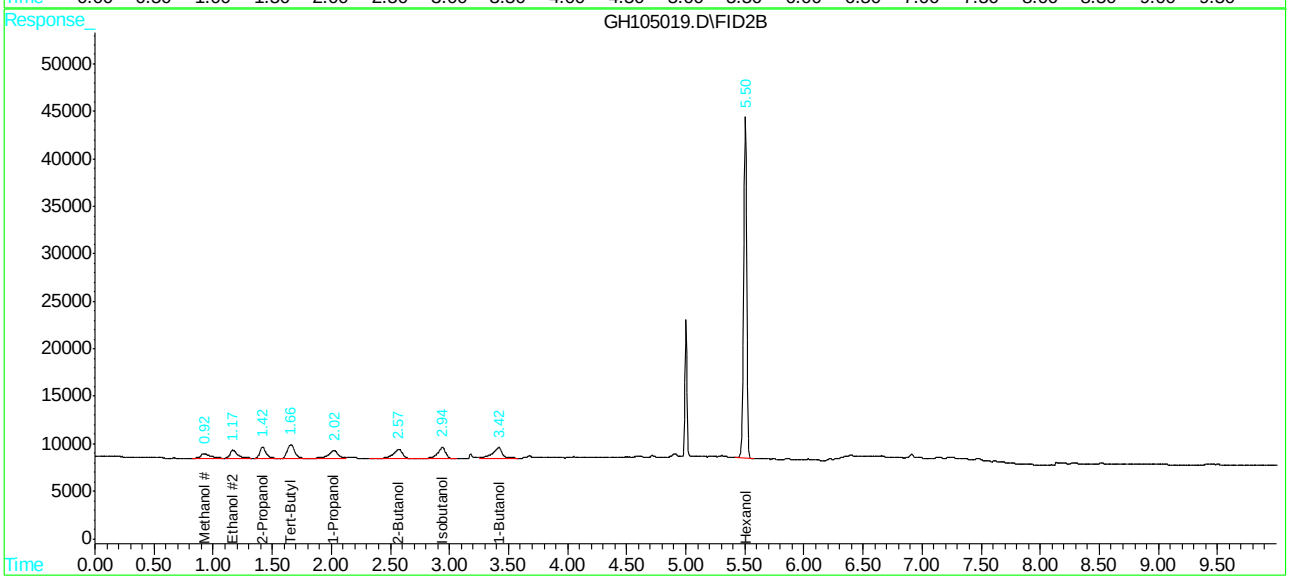
```
Data File : C:\HPCHEM\1\DATA\GH105019.D\FID1A.CH          Vial: 4
Acq On    : 17 May 2016   4:43 pm                     Operator: XULIU
Sample    : IC5288-1000                               Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105019.D\FID2B.CH          Vial: 4
Acq On    : 17 May 2016   4:57 pm                     Operator: XULIU
Sample    : IC5288-1000                               Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 18  7:22 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Wed May 18 07:22:21 2016
Response via : Multiple Level Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```





Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH105020.D\FID1A.CH          Vial: 5
Acq On    : 17 May 2016   4:57 pm                     Operator: XULIU
Sample    : ICC5288-5000                              Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105020.D\FID2B.CH          Vial: 5
Acq On    : 17 May 2016   5:19 pm                     Operator: XULIU
Sample    : ICC5288-5000                              Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 18  7:09 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Tue May 17 15:45:13 2016
Response via : Initial Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
System Monitoring Compounds						
9) S Hexanol	5.57	5.50	345209	794669	4511.712	4828.644
Spiked Amount 5000.000			Recovery	=	90.23%	96.57%
Target Compounds						
1) Methanol	1.12	0.89	77443	173699	5243.603	8544.414 #
2) Ethanol	1.45	1.15	99445	217347	5314.412	6840.346
3) Tert-Butyl Alcoh	2.01	1.65	142996	332018	5237.321	5085.028
4) 1-Propanol	2.51	2.01	128385	274702	5760.408	5575.380
5) 2-Propanol	1.75	1.41	105046	236654	5062.425	5660.735
6) Isobutanol	3.31	2.94	147383	311633	5362.003	5023.429
7) 1-Butanol	3.76	3.42	143097	319465	5843.923	6171.241
8) 2-Butanol	2.94	2.57	129413	280976	5135.753	5686.138

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

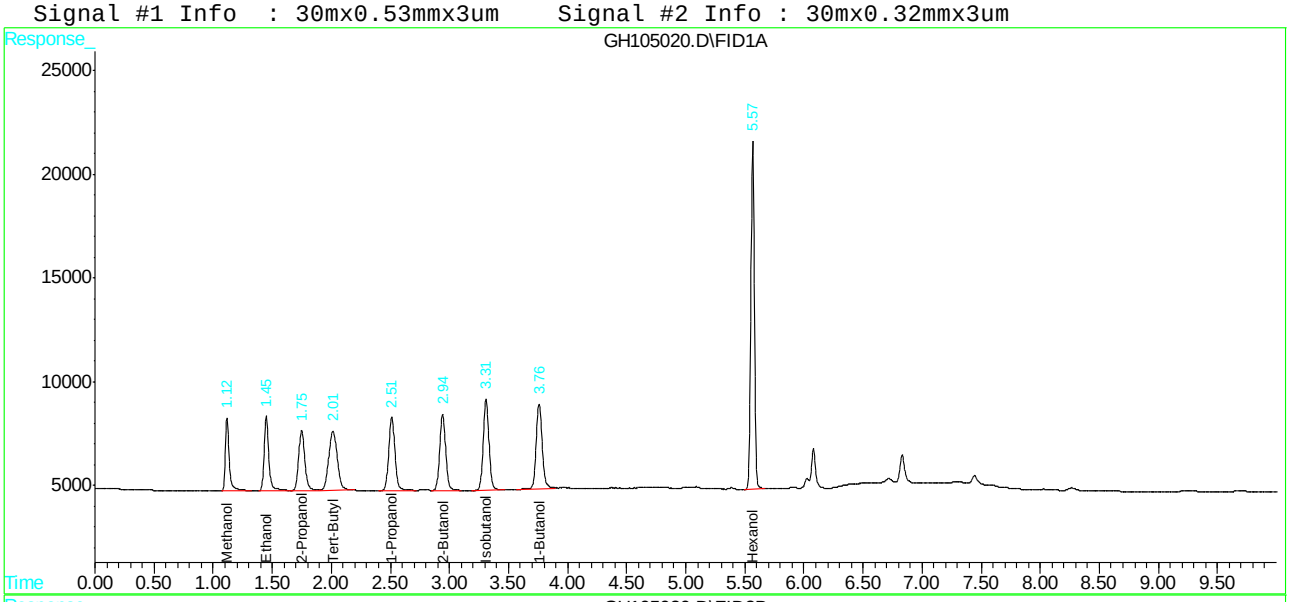
Quantitation Report (QT Reviewed)

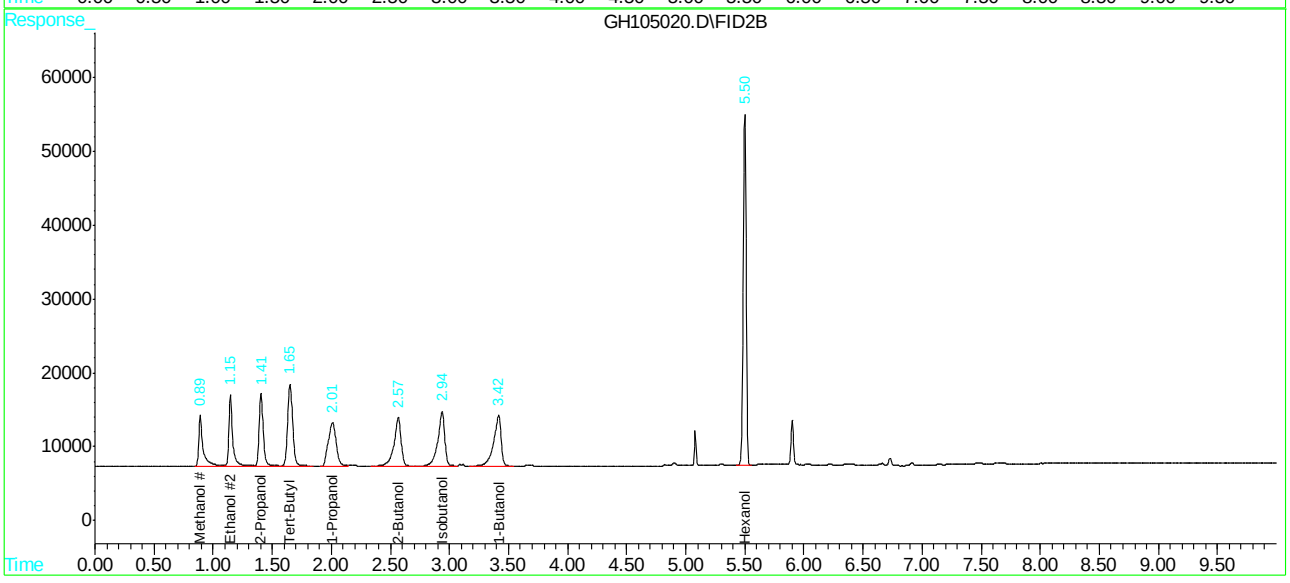
```
Data File : C:\HPCHEM\1\DATA\GH105020.D\FID1A.CH          Vial: 5
Acq On    : 17 May 2016   4:57 pm                     Operator: XULIU
Sample    : ICC5288-5000                              Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105020.D\FID2B.CH          Vial: 5
Acq On    : 17 May 2016   5:19 pm                     Operator: XULIU
Sample    : ICC5288-5000                              Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 18  7:09 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Tue May 17 15:45:13 2016
Response via : Multiple Level Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```





Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH105021.D\FID1A.CH          Vial: 6
Acq On    : 17 May 2016   5:19 pm                     Operator: XULIU
Sample    : IC5288-10000                              Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105021.D\FID2B.CH          Vial: 6
Acq On    : 17 May 2016   5:33 pm                     Operator: XULIU
Sample    : IC5288-10000                              Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 18  7:09 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Tue May 17 15:45:13 2016
Response via : Initial Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
9) S	Hexanol	5.57	5.50	355196	814101	4642.238	4946.724
Spiked Amount	5000.000			Recovery	=	92.84%	98.93%
	Target Compounds						
1)	Methanol	1.12	0.89	157448	346407	10660.697	17040.107 #
2)	Ethanol	1.45	1.15	202728	432745	10833.939	13619.358
3)	Tert-Butyl Alcoh	2.02	1.65	294805	663970	10797.389	10169.042
4)	1-Propanol	2.51	2.02	257894	549862	11571.266	11160.064
5)	2-Propanol	1.75	1.41	213932	472748	10309.866	11308.075
6)	Isobutanol	3.31	2.95	298782	632695	10870.134	10198.859
7)	1-Butanol	3.76	3.41	289038	604299	11803.967	11673.499
8)	2-Butanol	2.94	2.57	262599	566046	10421.277	11455.123

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

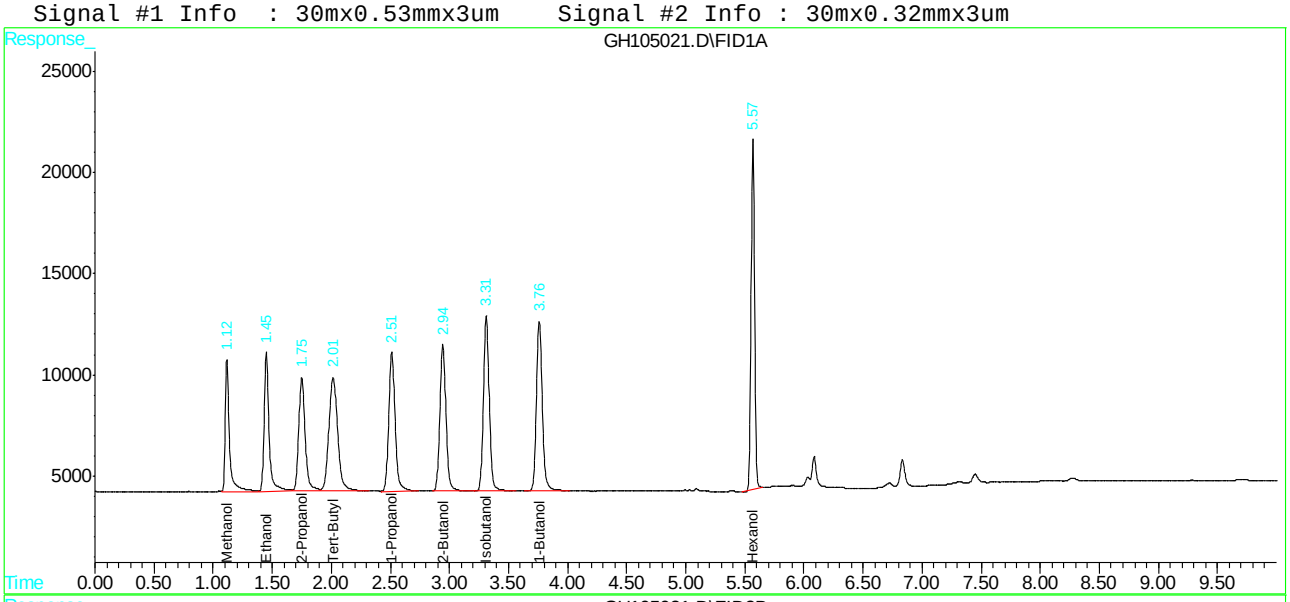
Quantitation Report (QT Reviewed)

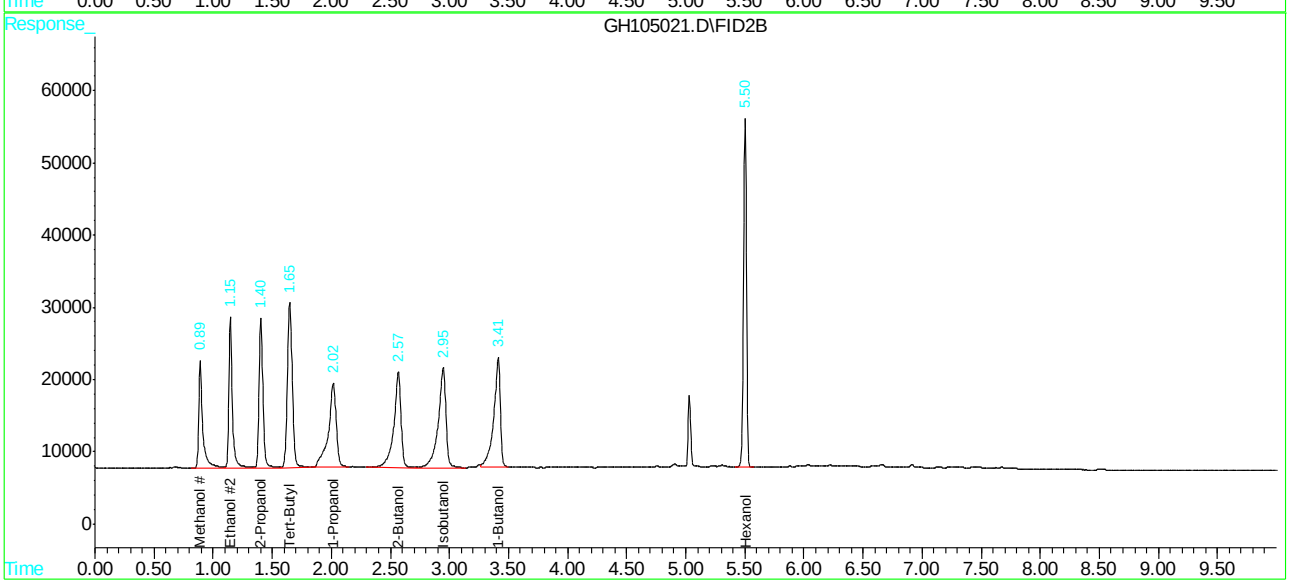
```
Data File : C:\HPCHEM\1\DATA\GH105021.D\FID1A.CH          Vial: 6
Acq On    : 17 May 2016   5:19 pm                     Operator: XULIU
Sample    : IC5288-10000                              Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105021.D\FID2B.CH          Vial: 6
Acq On    : 17 May 2016   5:33 pm                     Operator: XULIU
Sample    : IC5288-10000                              Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 18  7:09 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Tue May 17 15:45:13 2016
Response via : Multiple Level Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```





Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH105022.D\FID1A.CH          Vial: 7
Acq On    : 17 May 2016   5:33 pm                     Operator: XULIU
Sample    : IC5288-50000                              Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105022.D\FID2B.CH          Vial: 7
Acq On    : 17 May 2016   5:48 pm                     Operator: XULIU
Sample    : IC5288-50000                              Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 18  7:10 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Tue May 17 15:45:13 2016
Response via : Initial Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
9) S	Hexanol	5.57	5.50	412961	947054	5397.192	5754.582
	Spiked Amount 5000.000			Recovery	=	107.94%	115.09%
	Target Compounds						
1)	Methanol	1.12	0.89	720543	1576706	48787.500	77559.774 #
2)	Ethanol	1.45	1.15	934936	1996365	49963.655	62829.557
3)	Tert-Butyl Alcoh	2.02	1.65	1362114	3066977	49888.133	46972.339
4)	1-Propanol	2.51	2.02	1197382	2577415	53724.608	52311.489
5)	2-Propanol	1.75	1.41	990575	2181490	47738.100	52180.934
6)	Isobutanol	3.31	2.94	1369639	2883211	49829.464	46476.511
7)	1-Butanol	3.76	3.42	1316221	2839006	53752.804	54842.255
8)	2-Butanol	2.94	2.57	1212229	2632402	48107.436	53272.148

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

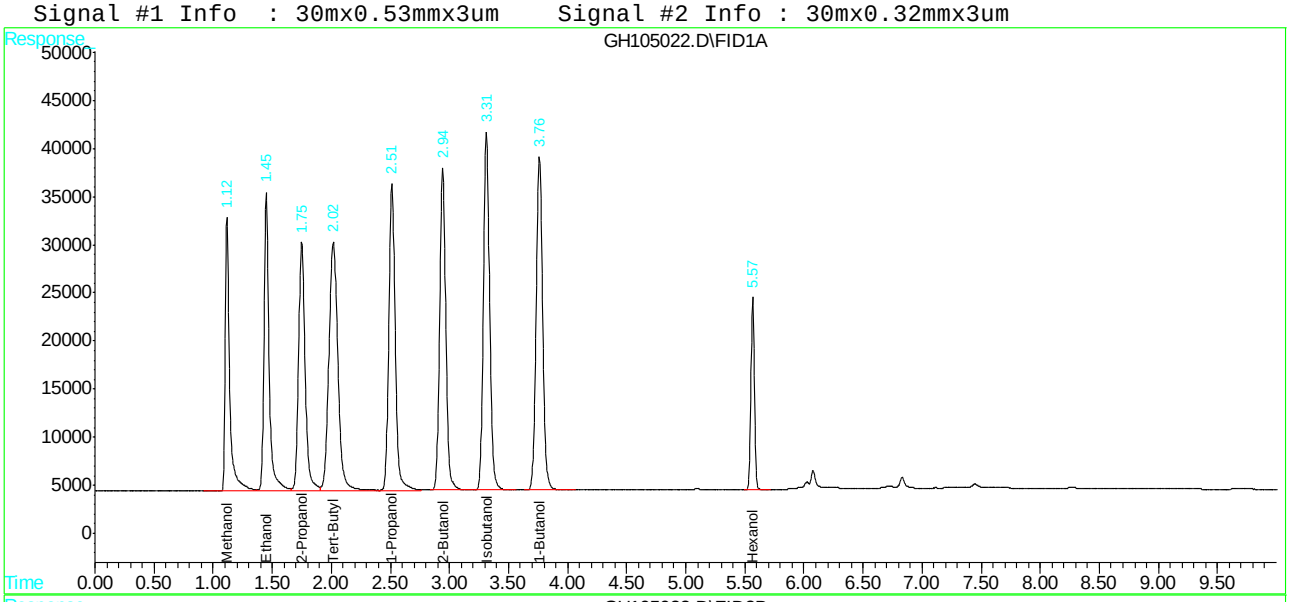
Quantitation Report (QT Reviewed)

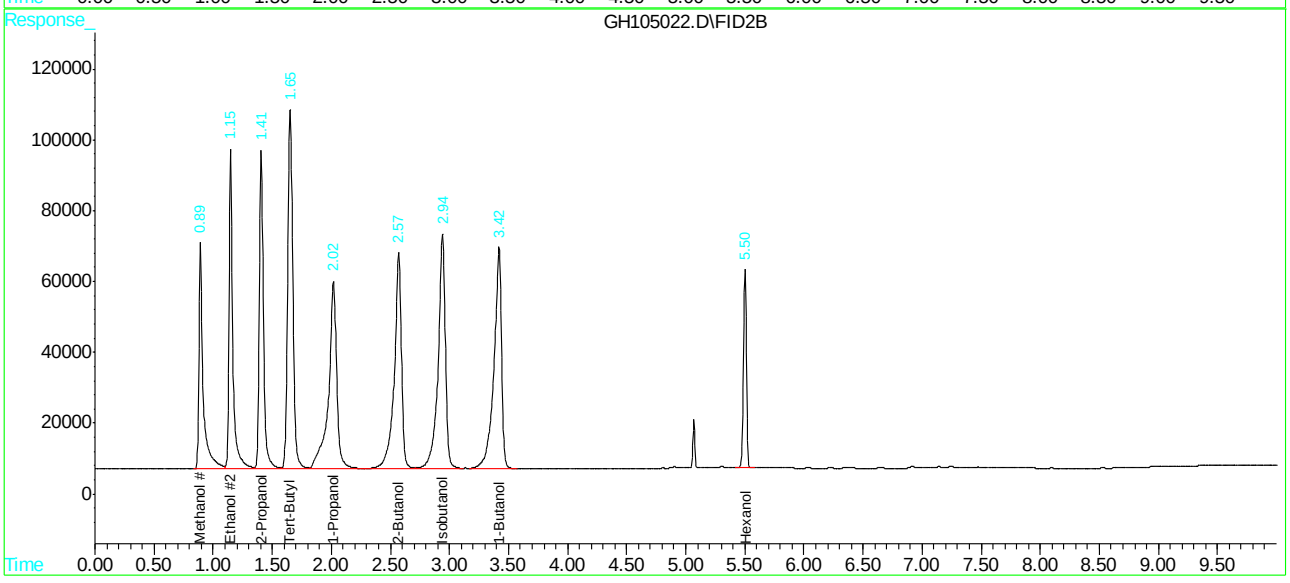
```
Data File : C:\HPCHEM\1\DATA\GH105022.D\FID1A.CH          Vial: 7
Acq On    : 17 May 2016   5:33 pm                     Operator: XULIU
Sample    : IC5288-50000                              Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105022.D\FID2B.CH          Vial: 7
Acq On    : 17 May 2016   5:48 pm                     Operator: XULIU
Sample    : IC5288-50000                              Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 18  7:10 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Tue May 17 15:45:13 2016
Response via : Multiple Level Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```





Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH105023.D\FID1A.CH          Vial: 8
Acq On    : 17 May 2016   5:48 pm                     Operator: XULIU
Sample    : IC5288-100000                             Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105023.D\FID2B.CH          Vial: 8
Acq On    : 17 May 2016   6:02 pm                     Operator: XULIU
Sample    : IC5288-100000                             Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 18  7:10 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Tue May 17 15:45:13 2016
Response via : Initial Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
9) S	Hexanol	5.57	5.50	259897	594005	3396.729	3609.352
	Spiked Amount 5000.000			Recovery	=	67.93%	72.19%
	Target Compounds						
1)	Methanol	1.12	0.89	1381464	3140971	93538.113	154507.580 #
2)	Ethanol	1.45	1.15	1913963	4176473	102283.537	131441.900
3)	Tert-Butyl Alcoh	2.02	1.66	2957875	6562015	108333.721	100500.651
4)	1-Propanol	2.51	2.03	2510870	5487726	112658.677	111379.470
5)	2-Propanol	1.76	1.41	2027830	4596795	97725.857	109954.692
6)	Isobutanol	3.32	2.96f	2927116	6160124	106492.774	99299.394
7)	1-Butanol	3.76	3.42	2754661	5940276	112496.937	114750.761
8)	2-Butanol	2.95	2.57	2539551	5573181	100782.352	112784.937

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

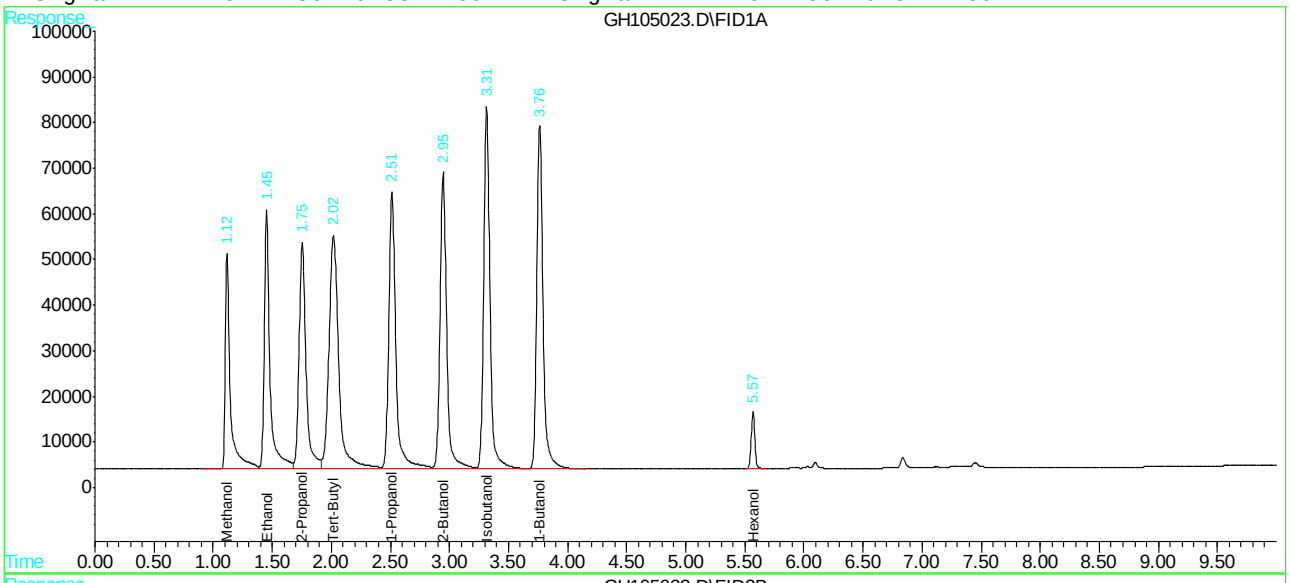
Quantitation Report (QT Reviewed)

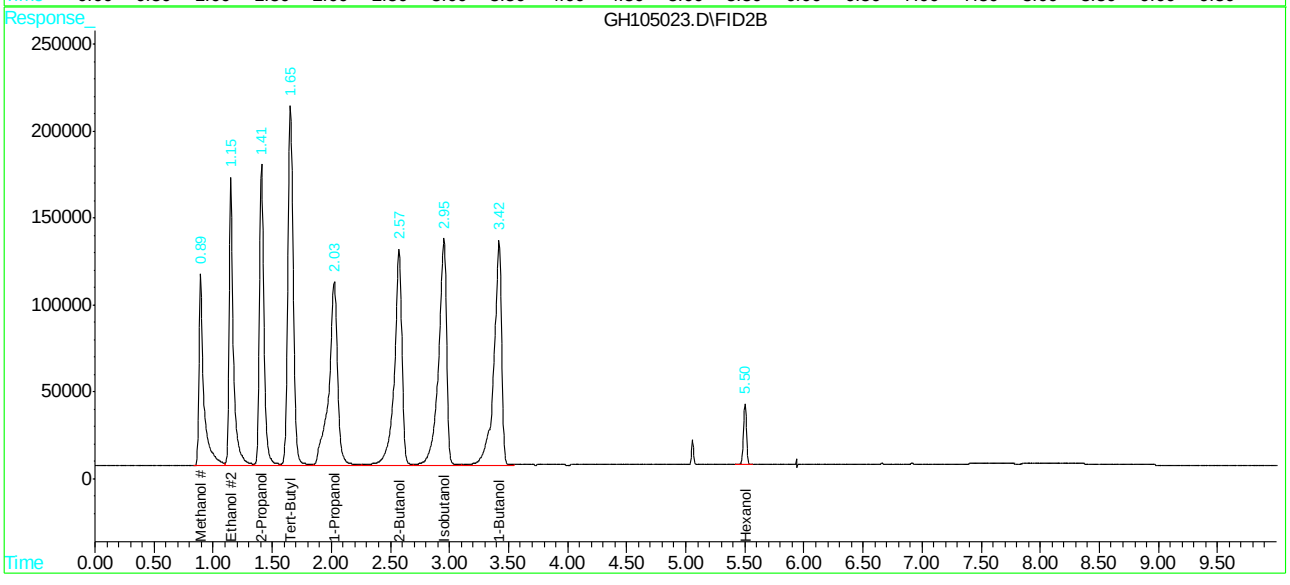
```
Data File : C:\HPCHEM\1\DATA\GH105023.D\FID1A.CH          Vial: 8
Acq On    : 17 May 2016   5:48 pm                     Operator: XULIU
Sample    : IC5288-100000                             Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105023.D\FID2B.CH          Vial: 8
Acq On    : 17 May 2016   6:02 pm                     Operator: XULIU
Sample    : IC5288-100000                             Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 18  7:10 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Tue May 17 15:45:13 2016
Response via : Multiple Level Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```





Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH105024.D\FID1A.CH          Vial: 9
Acq On    : 17 May 2016   6:02 pm                     Operator: XULIU
Sample    : ICV5288-5000                              Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105024.D\FID2B.CH          Vial: 9
Acq On    : 17 May 2016   6:24 pm                     Operator: XULIU
Sample    : ICV5288-5000                              Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 18  9:07 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Wed May 18 08:55:49 2016
Response via : Initial Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
9) S	Hexanol	5.57	5.50	349710	790800	5173.481	5090.525
Spiked Amount	5000.000			Recovery	=	103.47%	101.81%
	Target Compounds						
1)	Methanol	1.12	0.90	65127	172731	4212.940	5355.287
2)	Ethanol	1.45	1.16	100143	226641	5284.554	5685.787
3)	Tert-Butyl Alcoh	2.02	1.66	149854	332921	5288.674	5236.015
4)	1-Propanol	2.52	2.02	127682	285106	5248.735	5607.628
5)	2-Propanol	1.75	1.41	105368	238229	5286.625	5261.345
6)	Isobutanol	3.31	2.94	151110	333033	5252.180	5439.828
7)	1-Butanol	3.76	3.42	145592	326188	5097.649	4929.542
8)	2-Butanol	2.95	2.57	133016	304299	5188.956	5605.638

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

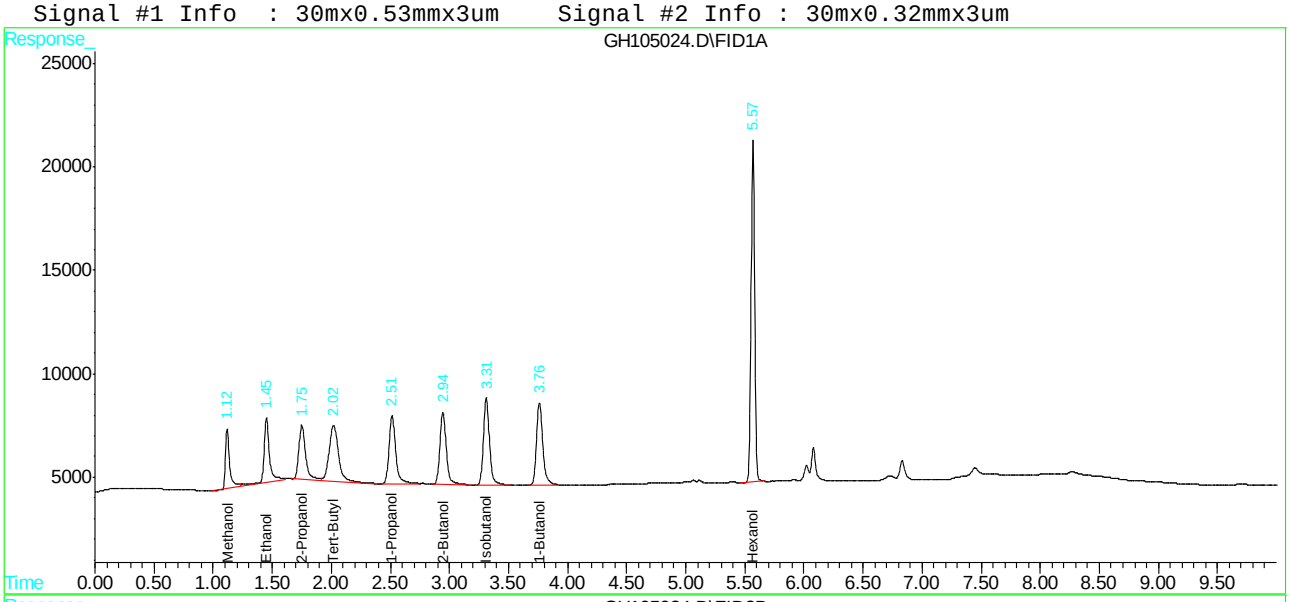
Quantitation Report (QT Reviewed)

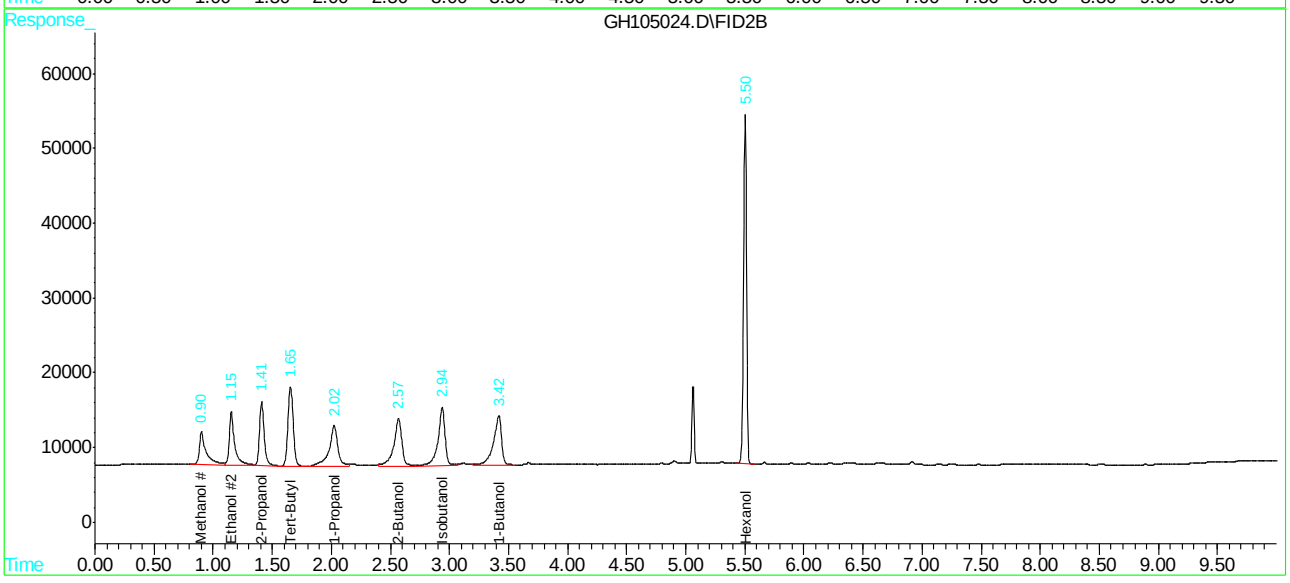
```
Data File : C:\HPCHEM\1\DATA\GH105024.D\FID1A.CH          Vial: 9
Acq On    : 17 May 2016   6:02 pm                     Operator: XULIU
Sample    : ICV5288-5000                              Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105024.D\FID2B.CH          Vial: 9
Acq On    : 17 May 2016   6:24 pm                     Operator: XULIU
Sample    : ICV5288-5000                              Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 18  9:07 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Wed May 18 08:55:49 2016
Response via : Multiple Level Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```





Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH105049.D\FID1A.CH          Vial: 95
Acq On    : 18 May 2016   2:28 pm                     Operator: XULIU
Sample    : CC5288-5000                               Inst    : GCGH
Misc      : GC48428,GGH5289,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105049.D\FID2B.CH          Vial: 95
Acq On    : 18 May 2016   2:42 pm                     Operator: XULIU
Sample    : CC5288-5000                               Inst    : GCGH
Misc      : GC48428,GGH5289,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 18 14:49 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Wed May 18 09:37:12 2016
Response via : Initial Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
9) S	Hexanol	5.56	5.50	336118	746735	4972.404	4806.868
	Spiked Amount 5000.000			Recovery	=	99.45%	96.14%
	Target Compounds						
1)	Methanol	1.11	0.89	74207	161364	4800.351	5002.873
2)	Ethanol	1.44	1.15	96715	202957	5103.662	5091.623
3)	Tert-Butyl Alcoh	2.00	1.65	156640	327203	5528.180	5146.089
4)	1-Propanol	2.50	2.00	128090	264945	5265.538	5211.095
5)	2-Propanol	1.74	1.40	109477	229090	5492.814	5059.511
6)	Isobutanol	3.30	2.94	147301	293790	5119.766	4798.832
7)	1-Butanol	3.75	3.41	141212	290513	4944.269	4390.406
8)	2-Butanol	2.93	2.57	129610	275133	5056.106	5068.369

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

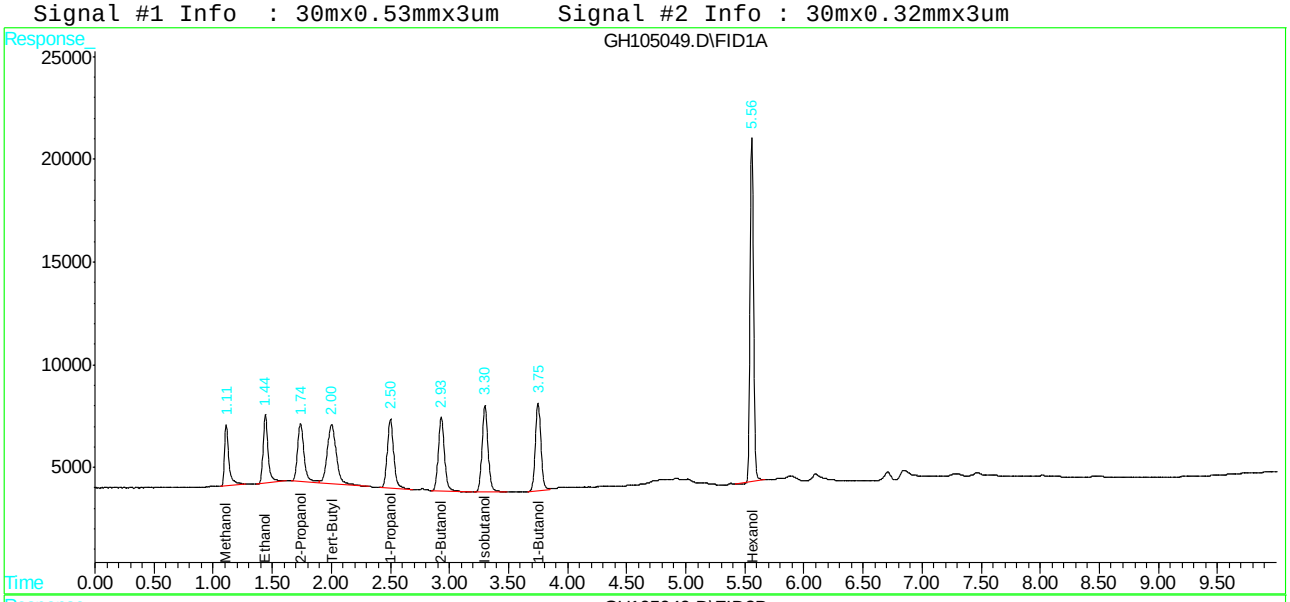
Quantitation Report (QT Reviewed)

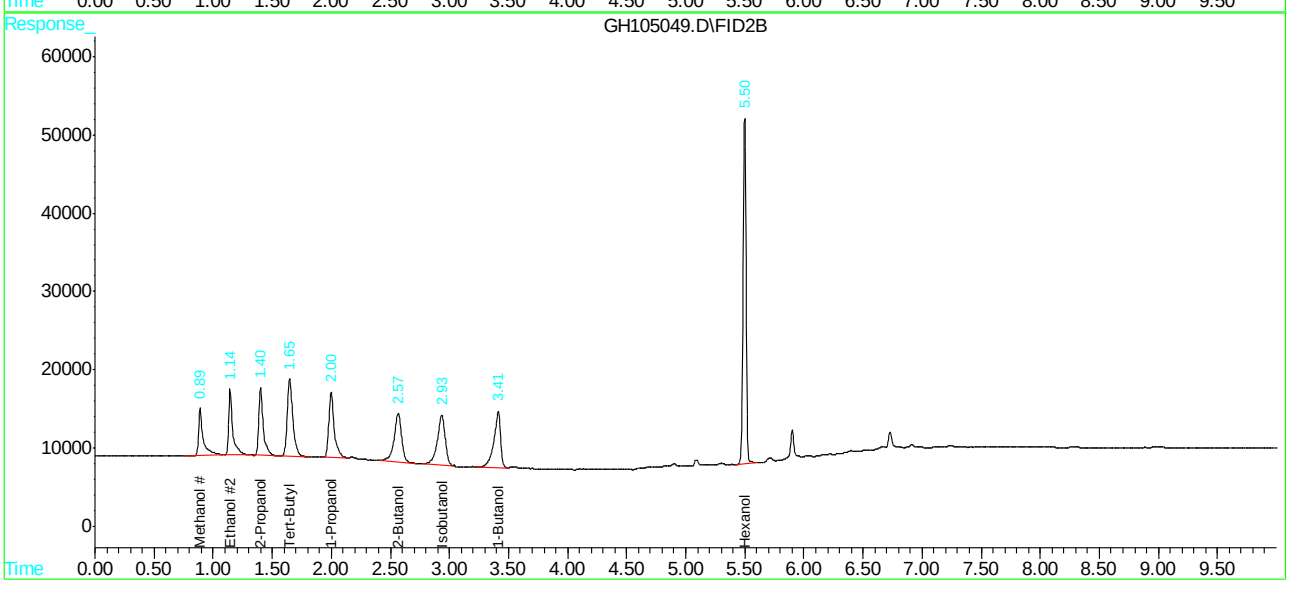
```
Data File : C:\HPCHEM\1\DATA\GH105049.D\FID1A.CH          Vial: 95
Acq On    : 18 May 2016   2:28 pm                     Operator: XULIU
Sample    : CC5288-5000                               Inst    : GCGH
Misc      : GC48428,GGH5289,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105049.D\FID2B.CH          Vial: 95
Acq On    : 18 May 2016   2:42 pm                     Operator: XULIU
Sample    : CC5288-5000                               Inst    : GCGH
Misc      : GC48428,GGH5289,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 18 14:49 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Wed May 18 09:37:12 2016
Response via : Multiple Level Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```





Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH105054.D\FID1A.CH          Vial: 95
Acq On    : 18 May 2016   3:49 pm                     Operator: XULIU
Sample    : CC5288-10000                              Inst    : GCGH
Misc      : GC48425,GGH5290,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105054.D\FID2B.CH          Vial: 95
Acq On    : 18 May 2016   4:03 pm                     Operator: XULIU
Sample    : CC5288-10000                              Inst    : GCGH
Misc      : GC48425,GGH5290,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 19  7:19 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Wed May 18 09:37:12 2016
Response via : Initial Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
9) S	Hexanol	5.56	5.50	338121	755547	5002.038	4863.592
	Spiked Amount 5000.000			Recovery	=	100.04%	97.27%
	Target Compounds						
1)	Methanol	1.12	0.90	155738	339910	10074.450	10538.457
2)	Ethanol	1.45	1.15	196979	420490	10394.572	10548.933
3)	Tert-Butyl Alcoh	2.00	1.65	282574	657111	9972.662	10334.711
4)	1-Propanol	2.50	2.00	241854	544714	9942.144	10713.762
5)	2-Propanol	1.74	1.41	204381	464119	10254.424	10250.174
6)	Isobutanol	3.30	2.94	299019	589948	10393.093	9636.336
7)	1-Butanol	3.75	3.42	283820	604502	9937.443	9135.595
8)	2-Butanol	2.93	2.57	264578	556980	10321.197	10260.406

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

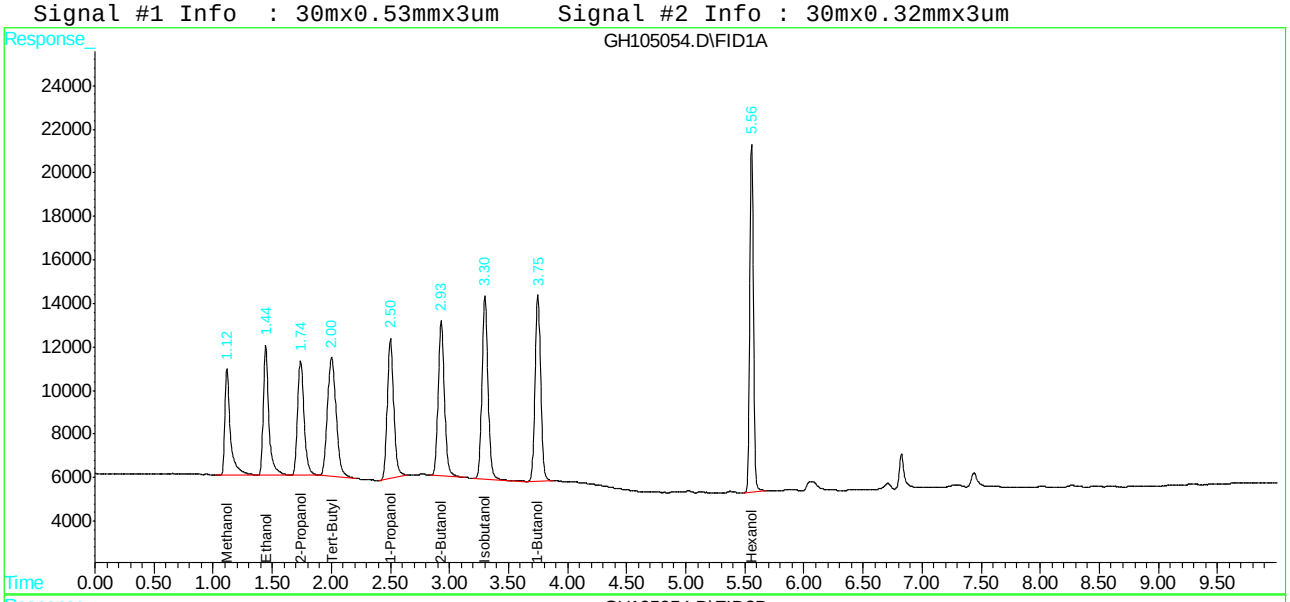
Quantitation Report (QT Reviewed)

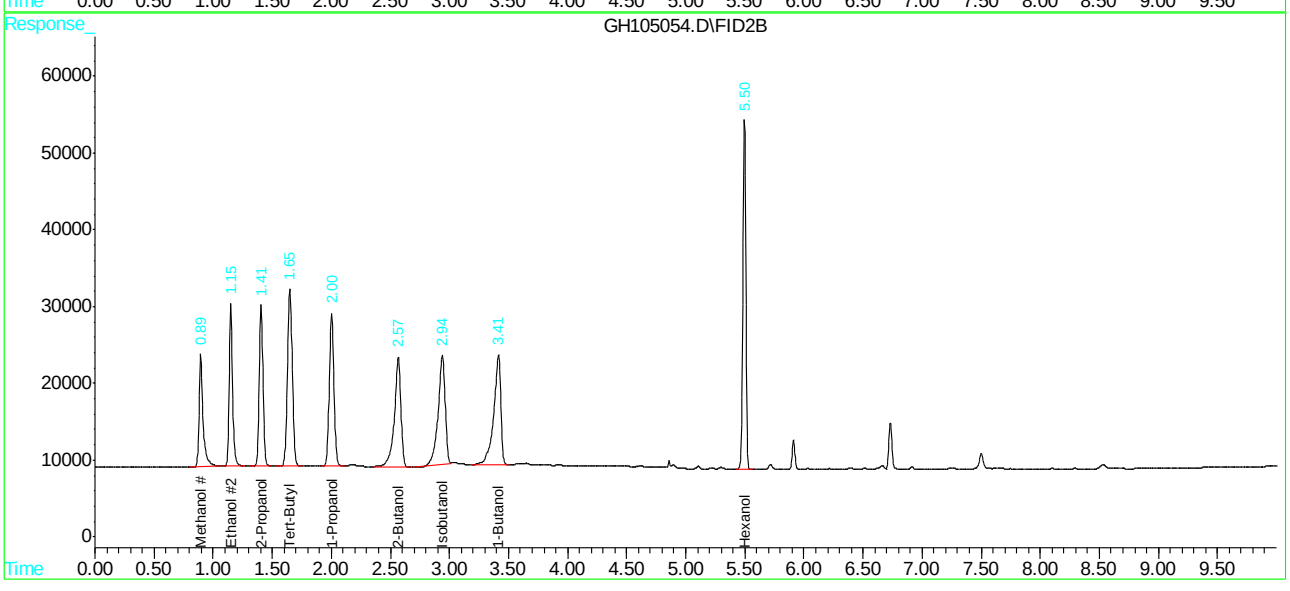
```
Data File : C:\HPCHEM\1\DATA\GH105054.D\FID1A.CH          Vial: 95
Acq On    : 18 May 2016   3:49 pm                     Operator: XULIU
Sample    : CC5288-10000                              Inst    : GCGH
Misc      : GC48425,GGH5290,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105054.D\FID2B.CH          Vial: 95
Acq On    : 18 May 2016   4:03 pm                     Operator: XULIU
Sample    : CC5288-10000                              Inst    : GCGH
Misc      : GC48425,GGH5290,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 19  7:19 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Wed May 18 09:37:12 2016
Response via : Multiple Level Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```





Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\GH105065.D\FID1A.CH Vial: 10
Acq On : 18 May 2016 6:49 pm Operator: XULIU
Sample : CC5288-5000 Inst : GCGH
Misc : GC48426,GGH5290,5.0,,,,1 Multiplr: 1.00
IntFile : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105065.D\FID2B.CH Vial: 10
Acq On : 18 May 2016 7:04 pm Operator: XULIU
Sample : CC5288-5000 Inst : GCGH
Misc : GC48426,GGH5290,5.0,,,,1 Multiplr: 1.00
IntFile : autoint2.e
Quant Time: May 19 7:28 2016 Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title : METHOD SW846-8015C (DAI)
Last Update : Thu May 19 07:23:53 2016
Response via : Initial Calibration
DataAcq Meth : MGH5288.M

Volume Inj. : 2ul
Signal #1 Phase : ZB-624 Signal #2 Phase: RTX-1
Signal #1 Info : 30mx0.53mmx3um Signal #2 Info : 30mx0.32mmx3um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
9) S	Hexanol	5.56	5.50	333289	747312	4930.546	4810.584
Spiked Amount	5000.000			Recovery	=	98.61%	96.21%
	Target Compounds						
1)	Methanol	1.11	0.90	75224	158718	4866.132	4920.856
2)	Ethanol	1.44	1.15	97300	200591	5134.513	5032.264
3)	Tert-Butyl Alcoh	2.00	1.65	140623	324101	4962.895	5097.291
4)	1-Propanol	2.50	2.01	128538	256427	5283.936	5043.553
5)	2-Propanol	1.74	1.41	102593	226293	5147.386	4997.732
6)	Isobutanol	3.30	2.95	150005	275960	5213.766	4507.587
7)	1-Butanol	3.75	3.42	140831	286285	4930.933	4326.511
8)	2-Butanol	2.93	2.57	130268	276039	5081.741	5085.051

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

SGS ACCUTEST JC20098

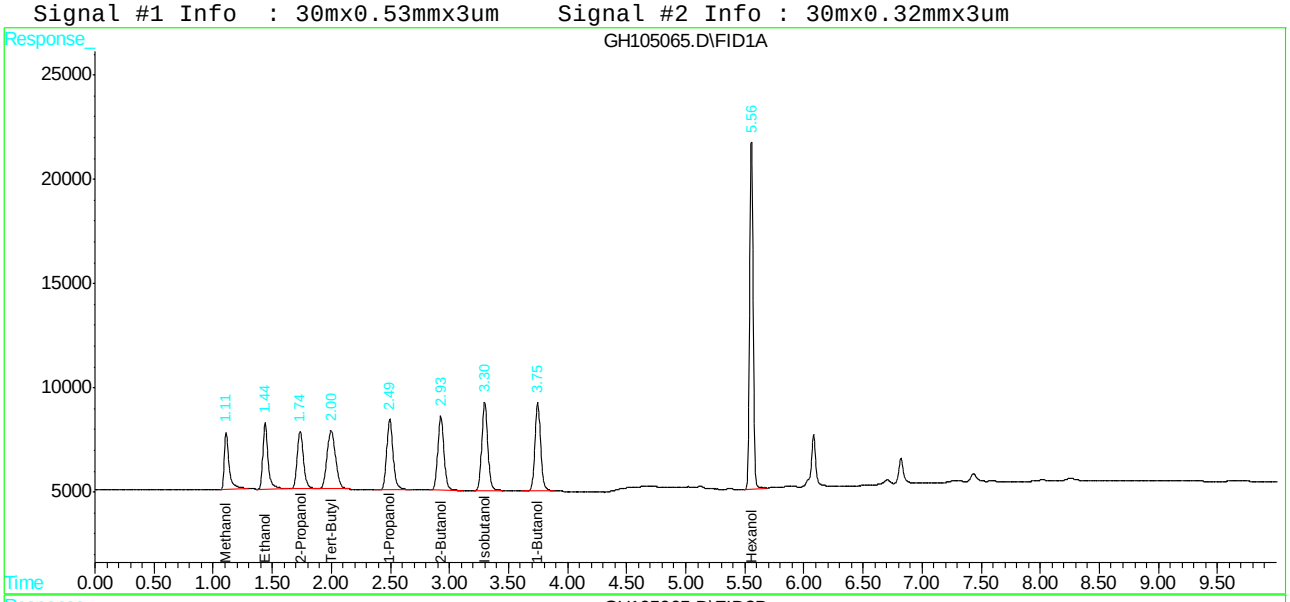
Quantitation Report (QT Reviewed)

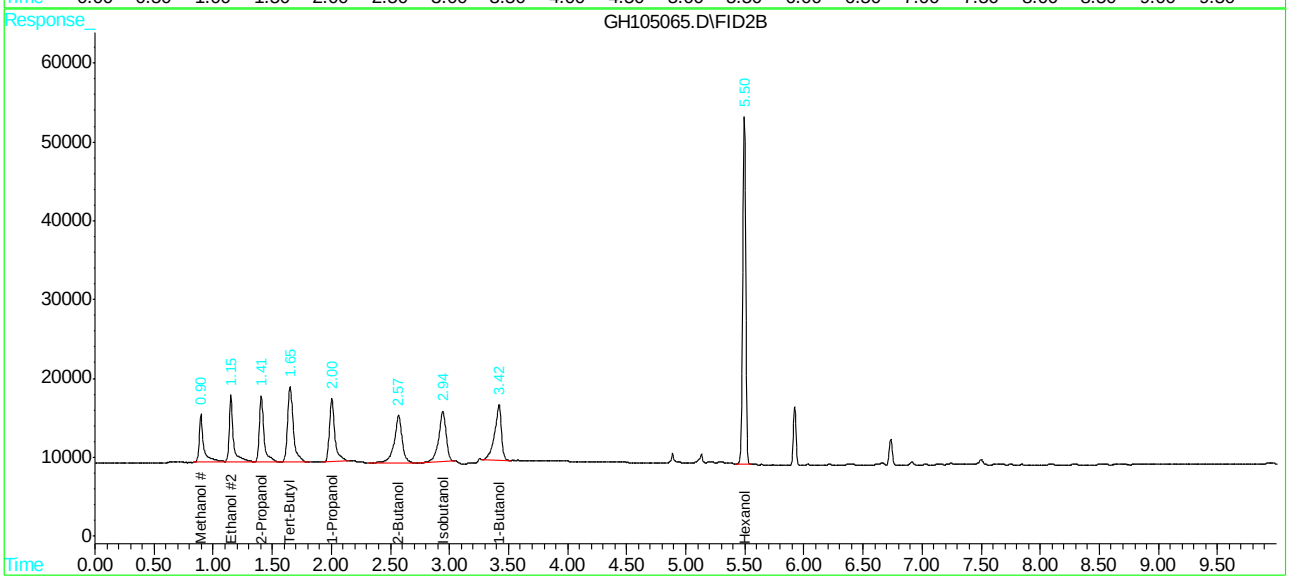
```
Data File : C:\HPCHEM\1\DATA\GH105065.D\FID1A.CH          Vial: 10
Acq On    : 18 May 2016   6:49 pm                     Operator: XULIU
Sample    : CC5288-5000                               Inst    : GCGH
Misc      : GC48426,GGH5290,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105065.D\FID2B.CH          Vial: 10
Acq On    : 18 May 2016   7:04 pm                     Operator: XULIU
Sample    : CC5288-5000                               Inst    : GCGH
Misc      : GC48426,GGH5290,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 19  7:28 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Thu May 19 07:23:53 2016
Response via : Multiple Level Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```





SGS ACCUTEST

VOLATILE ANALYSIS LOG

Batch ID: GGH5269

Print Analyst Name: Xielin

Date: 5/9/16

Analyst Signature:

Columns: ZB624 / RTX-1 (30m x 0.25mm x 3um) (30m x 0.32mm x

Method 8015C ALC

Initial Cal. Method MGH5269

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
015MX-18	ALL SUR	2000ppm
015MX-19	ALL STD	100ppm
015MX-30	ALL STD(2)	100ppm

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: Date: 5/12/16

R	Data File	Sample ID	Test	MTX	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	Secondary dilution	L+	IS	SU	Status (Data)	Comments	pH* < 2
	GH104669	2B					1						not ul		
	104670	2B					1						not ul		
	104671	2B					1						not ul		
	104672	2B					1						not ul		
	104673	2B					1					✓	ok		
	104674	2G5269-100					1					✓	ok	10ul STD, 4ul sur/10ml 1/20	
	104675	2G5269-500					1					✓	ok	5ul STD, 1ul sur/1ml 1/20	
	104676	2G5269-1000					1					✓	ok	10ul STD, 2ul sur/1ml 1/20	
	104677	2G5269-5000					1					✓	ok	50ul STD, 2.5ul sur/1ml 1/20	
	104678	2G5269-10,000					1					✓	ok	100ul STD, 2.5ul sur/1ml 1/20	
	104679	2G5269-50,000					1					✓	ok	500ul STD, 2ul sur/1ml 1/20	
	104680	2G5269-100,000					1					✓	not need		
	104681	2G5269-100,000					1						N/G	1000ul STD, 4ul sur/ml	
	104682	2G5269-5000					1						N/G		
	104683	2G5269-5000					1					✓	ok	50ul STD(2), 2.5ul sur/1ml 1/20	

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: OR001-10
Rev. Date: 1/19/16

SGS ACCUTEST JC20098

9.6.1

9

SGS ACCUTEST

VOLATILE ANALYSIS LOG

Batch ID: GGH5285

Print Analyst Name: [illegible]

Analyst Signature: [illegible]

Date: 5/16/16

Columns: 2B624 / RTX-1 (30m x 0.32mm x 3um) (30m x 0.32mm x 3um)

Method 8015C ALL

Initial Cal. Method MGH5269

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
015mxc19	ALL SUR (5/15)	2000 ppm
015mxc19	ALL SUR (5/15)	100 ppm
015mxc30	ALL SUR (5/15)	100 ppm

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: [illegible] **Date:** 5/17/16

R	Data File	Sample ID	Test	MTX	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	Secondary dilution	L+	IS	SU	Status (Data)	Comments	pH* <2
	GH10459	2B					1					✓	ok		
	10460	CC5269-5000					1					✓	ok	50µl STD/mlw	
	10461	MB1					1					✓	ok		
	10462	BS					1					✓	ok	50µl STD/mlw	
	10463	JC19644-1	48420 CMTX	W	6		1					✓	ok		✓
	10464	JC19644-1MS	✓	W	6		1					✓	ok		✓
	10465	JC19644-1MSD	✓	W	6		1					✓	ok		✓
	10466	JC19644-2	✓	W	5		1					✓	ok		✓
	10467	JC19644-3	✓	W	6		1					✓	ok		✓
	10468	JC19759-1	✓	W	6		1					✓	ok		✓
	10469	JC19759-2	✓	W	6		1					✓	ok		✓
	10470	CC5269-10,000					1					✓	ok		
	10471	MB2					1					✓	ok		
	10472	JC19759-3	✓	W	6		1					✓	ok		✓
	10473	JC19759-4	✓	W	5		1					✓	ok		✓
	10474	JC19759-5	✓	W	6		1					✓	ok		✓
	10475	JC19759-6	✓	W	6		1					✓	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: OR001-10
Rev. Date: 1/19/16

SGS ACCUTEST

VOLATILE ANALYSIS LOG

Batch ID: GGH5285

Print Analyst Name: Xi Liu

Analyst Signature:

Date: 5/16/16

Columns: ZB624 / RTX-1 (30m x 0.53mm x 3µm) (30m x 0.25mm x 1µ)

Method 8015CAK

Initial Cal. Method MGH5269

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	Pg 153	

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: Date: 5/17/16

R	Data File	Sample ID	Test	MTX	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	Secondary dilution	L+	IS	SU	Status (Data)	Comments	pH* < 2
	GH104976	JC19914-1	48420 CMB	G W	5		1					✓	ok		✓
	104977	JC19114-2	✓	G W	5		1					✓	ok		✓
	104978	JC19114-4	✓	G W	5		1					✓	ok		✓
	104979	JC19114-5	✓	G W	5		1					✓	ok		✓
	104980	CC5269-5000					1					✓	ok	50ul std/mL	
	104981	MBX3					1					✓	ok		
	104982	JC20098-1	48422 CMB	G W	5		1					✓	ok	JC20098-1	✓
	104983	JC20098-4	✓	G W	5		1					✓	ok	JC20098-4	✓
	104984	JC20098-5	✓	G W	5		1					✓	ok	JC20098-5	✓
	104985	JC20314-2	48423 CMB	G W	4		1					✓	ok		✓
	104986	JC20314-4	✓	G W	2		1					✓	ok		✓
	104987	CC5269-10,000					1					✓	ok	100ul std/mL	
	104988						1								
	104989						1								
													5/16		

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: OR001-10
Rev. Date: 1/19/16

SGS ACCUTEST

VOLATILE ANALYSIS LOG

Batch ID: GGH 5288

Print Analyst Name: Xu Gu

Analyst Signature:

Date: 5/17/16

Columns: ZB624 / RTX-1 (30m x0.53mm x3μm) (30m x0.32mm x3μm)

Method 8015C All

Initial Cal. Method m Cal 5288

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
015M4108	All Sur (5/15)	2000 ppm
015M4510	All STD (5/15)	100 ppm
015M4130	All SD012 (5/15)	100 ppm

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: Date: 5/19/16

R	Data File	Sample ID	Test	MTX	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	Secondary dilution	L+	IS	SU	Status (Data)	Comments	pH* < 2
	Cal 105015	ZB					1					✓	not used		
	105016	ZB					1					✓	ok		
	105017	ZC5288-100					1					✓	ok	10μl STD, 4μl SW / 10 ml H2O	
	105018	ZC5288-500					1					✓	ok	5μl STD, 1μl SW / 10 ml H2O	
	105019	ZC5288-1000					1					✓	ok	10μl STD, 2.5μl SW / ml H2O	
	105020	ZC5288-5000					1					✓	ok	50μl STD, 2.5μl SW / ml H2O	
	105021	ZC5288-10,000					1					✓	ok	100μl STD, 2.5μl SW / ml H2O	
	105022	ZC5288-50,000					1					✓	ok	500μl STD, 3μl SW / ml H2O	
	105023	ZC5288-100,000					1					✓	ok	1000μl STD, 4μl SW / ml H2O	
	105024	ZC5288-5000					1					✓	ok	2.5μl SW / 50μl STD (1:10) / ml H2O	

5/17

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: OR001-10
Rev. Date: 1/19/16

SGS ACCUTEST

VOLATILE ANALYSIS LOG

Batch ID: GGH5289

Print Analyst Name: Xulin

Date: 5/18/16

Analyst Signature:

Columns: ZB624 / RTX-1 (30m x0.53mm x3μm) (30m x0.32mm x2μm)

Method 8015C All

Initial Cal. Method MGH5288

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
015244128	All Surr (5/15)	2000 ppm
015244129	All SUD (5/15)	100 ppm
015244130	All (5012) (5/15)	100 ppm

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: **Date:** 5/19/16

R	Data File	Sample ID	Test	MTX	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	Secondary dilution	L+	IS	SU	Status (Data)	Comments	pH* < 2
	GH105025	2B					1						not used		
	105026	2B					1						not used		
	105027	2B					1					✓	OK		
	105028	CC5288-50000					1					✓	OK	50ml 5000/ml dw	
	105029	MB1					1					✓	OK		
	105030	BS					1					✓	OK	50ml 5012/ml dw	
	105031	JCW386-1	484235 LMA	G W	3		1					✓	OK		✓
	105032	JCW386-1MS	✓	G W	3		1					✓	OK	50ml 5012/ml sple	✓
	105033	JCW386-1MSD	✓	G W	3		1					✓	OK	50ml 5012/ml sple	✓
	105034	JC18855-1	484242 LMA	W G	5		1					✓	OK		✓
5/18	105035	JC18855-2	✓	G W	5		1					✓	OK		✓
(2)	105036	JC18950-1	484248 LMA	G W	5		1					✓	OK		✓
	105037	JC18950-3	✓	G W	6		1					✓	OK		✓
	105038	CC5288-10,000					1					✓	OK	100ml 5000/ml dw	
	105039						1								
	105040						1								
	105041						1							5/18	

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: OR001-10
Rev. Date: 1/19/16

SGS ACCUTEST

VOLATILE ANALYSIS LOG

Batch ID: GGH5289

Print Analyst Name: Xulici

Analyst Signature:

Date: 5/18/16

Columns: 28620 / RTX-1 (30m x 0.53mm x 3µm) (30m x 0.32mm x 3µ)

Method 8015C ALL

Initial Cal. Method MGH5288

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	Pg 165	

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: Date: 5/19/16

R	Data File	Sample ID	Test	MTX	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	Secondary dilution	L+	IS	SU	Status (Data)	Comments	pH* < 2
	GH105040	MB2					1					✓	ok		
	105041	JC19950-6	48428 CMA	G W	3		1					✓	ok		✓
	105042	JC19950-11	✓	W F	6		1					✓	ok		✓
	105043	JC19961-1	✓	G W	7		1					✓	ok		✓
	105044	JC19961-2	✓	G W	9		1					✓	ok		✓
	105045	JC19961-3	✓	G W	9		1					✓	ok		✓
	105046	JC19961-6	✓	G W	7		1					✓	ok		✓
	105047	JC19961-7	✓	G W	8		1					✓	ok		✓
	105048	JC19961-8	✓	G W	5		1					✓	ok		✓
	105049	CC5288-5000					1					✓	ok	standard/mixture	
												(ux)		5/18	

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: OR001-10
Rev. Date: 1/19/16

SGS ACCUTEST

VOLATILE ANALYSIS LOG

Batch ID: GGH5290

Print Analyst Name: Xu Liu

Date: 5/18/16

Analyst Signature:

Columns: 2BGX / RTX-1 (30m x 0.53 mm x 3um) (30m x 0.32mm x 2µ)

Method 8015C ALL

Initial Cal. Method MGH5288

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
015mix218	ALL SUR (5/15)	2000 ppm
015mix219	ALL STD (5/15)	100 ppm
015mix130	ALL STD (5/15)	100 ppm

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: **Date:** 5/19/16

R	Data File	Sample ID	Test	MTX	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	Secondary dilution	L+	IS	SU	Status (Data)	Comments	pH* <2
	GH1050 50	MB1										✓	ok		
	1050 51	BS										✓	ok	50µl STD(2) / ml H2O	
	1050 52	JC19644-4	48425 LMA	S	1		5.0/5					✓	ok		
	1050 53	JC19644-5	✓	S	1		5.0/5					✓	ok		
	~~JC19914-~~													(x) 5/18	
	1050 54	CC5288-10,000										✓	ok	10µl STD / ml H2O	
	1050 55	MB2										✓	ok		
	1050 56	JC19914-2	48426 LMA	S	1		5.0/5					✓	ok		
	1050 57	JC19914-2MS	✓	S	1		5.0/5					✓	ok	50µl STD(2) / ml sample	
	1050 58	JC19914-2MSD	✓	S	1		5.0/5					✓	ok	50µl STD(2) / ml sample	
	1050 59	JC ~~19914-6~~ 19492-28	48362 MeH	S	1		5.0/5			5/18		✓	ok	~~5/18~~ (x) 5/19	ok
	1050 60	JC ~~19914-7~~ 19492-29	5/19 (x)	S	1		5.0/5					✓	ok	JC 19492-29 5/19	
	1050 61	JC19996-2	48426 LMA	S	1		4.8/5					✓	ok		
	1050 62	JC20098-2	✓	S	1		5.0/5					✓	ok		
	1050 63	JC20098-3	✓	S	1		5.1/5					✓	ok		
	1050 64	JC20388-2	48436 LMA	S	2		5.0/5					✓	ok		
	1050 65	CC5288-5000										✓	ok	50µl STD / ml H2O	

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: OR001-10
Rev. Date: 1/19/16

GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- DDT/Endrin Breakdown Checks
- GC Identification Summaries (Hits)
- Surrogate Recovery Summaries
- GC Surrogate Retention Time Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93870-MB1	4G68215.D	1	05/13/16	DS	05/12/16	OP93870	G4G1788

The QC reported here applies to the following samples: **Method:** SW846 8081B

JC20098-4

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.010	0.0060	ug/l	
319-84-6	alpha-BHC	ND	0.010	0.0060	ug/l	
319-85-7	beta-BHC	ND	0.010	0.0057	ug/l	
319-86-8	delta-BHC	ND	0.010	0.0046	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.010	0.0028	ug/l	
5103-71-9	alpha-Chlordane	ND	0.010	0.0046	ug/l	
5103-74-2	gamma-Chlordane	ND	0.010	0.0046	ug/l	
60-57-1	Dieldrin	ND	0.010	0.0036	ug/l	
72-54-8	4,4'-DDD	ND	0.010	0.0038	ug/l	
72-55-9	4,4'-DDE	ND	0.010	0.0062	ug/l	
50-29-3	4,4'-DDT	ND	0.010	0.0050	ug/l	
72-20-8	Endrin	ND	0.010	0.0050	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.010	0.0053	ug/l	
7421-93-4	Endrin aldehyde	ND	0.010	0.0051	ug/l	
53494-70-5	Endrin ketone	ND	0.010	0.0051	ug/l	
959-98-8	Endosulfan-I	ND	0.010	0.0050	ug/l	
33213-65-9	Endosulfan-II	ND	0.010	0.0043	ug/l	
76-44-8	Heptachlor	ND	0.010	0.0038	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.010	0.0065	ug/l	
72-43-5	Methoxychlor	ND	0.020	0.0057	ug/l	
8001-35-2	Toxaphene	ND	0.25	0.18	ug/l	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	99%	26-132%
877-09-8	Tetrachloro-m-xylene	94%	26-132%
2051-24-3	Decachlorobiphenyl	80%	10-118%
2051-24-3	Decachlorobiphenyl	70%	10-118%

Method Blank Summary

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93898-MB1	6G35096A.D	1	05/16/16	RK	05/13/16	OP93898	G6G1011

The QC reported here applies to the following samples: **Method:** SW846 8081B

JC20098-5

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.010	0.0060	ug/l	
319-84-6	alpha-BHC	ND	0.010	0.0060	ug/l	
319-85-7	beta-BHC	ND	0.010	0.0057	ug/l	
319-86-8	delta-BHC	ND	0.010	0.0046	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.010	0.0028	ug/l	
5103-71-9	alpha-Chlordane	ND	0.010	0.0046	ug/l	
5103-74-2	gamma-Chlordane	ND	0.010	0.0046	ug/l	
60-57-1	Dieldrin	ND	0.010	0.0036	ug/l	
72-54-8	4,4'-DDD	ND	0.010	0.0038	ug/l	
72-55-9	4,4'-DDE	ND	0.010	0.0062	ug/l	
50-29-3	4,4'-DDT	ND	0.010	0.0050	ug/l	
72-20-8	Endrin	ND	0.010	0.0050	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.010	0.0053	ug/l	
7421-93-4	Endrin aldehyde	ND	0.010	0.0051	ug/l	
53494-70-5	Endrin ketone	ND	0.010	0.0051	ug/l	
959-98-8	Endosulfan-I	ND	0.010	0.0050	ug/l	
33213-65-9	Endosulfan-II	ND	0.010	0.0043	ug/l	
76-44-8	Heptachlor	ND	0.010	0.0038	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.010	0.0065	ug/l	
72-43-5	Methoxychlor	ND	0.020	0.0057	ug/l	
8001-35-2	Toxaphene	ND	0.25	0.18	ug/l	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	92%	26-132%
877-09-8	Tetrachloro-m-xylene	90%	26-132%
2051-24-3	Decachlorobiphenyl	87%	10-118%
2051-24-3	Decachlorobiphenyl	93%	10-118%

Blank Spike Summary

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93870-BS1	6G35053.D	1	05/13/16	DS	05/12/16	OP93870	G6G1010

The QC reported here applies to the following samples: **Method:** SW846 8081B

JC20098-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
309-00-2	Aldrin	0.25	0.25	100	38-138
319-84-6	alpha-BHC	0.25	0.21	84	51-144
319-85-7	beta-BHC	0.25	0.26	104	55-137
319-86-8	delta-BHC	0.25	0.014	6* [a]	33-148
58-89-9	gamma-BHC (Lindane)	0.25	0.23	92	53-142
5103-71-9	alpha-Chlordane	0.25	0.27	108	52-137
5103-74-2	gamma-Chlordane	0.25	0.27	108	52-140
60-57-1	Dieldrin	0.25	0.27	108	54-144
72-54-8	4,4'-DDD	0.25	0.27	108	46-151
72-55-9	4,4'-DDE	0.25	0.24	96	51-142
50-29-3	4,4'-DDT	0.25	0.25	100	53-158
72-20-8	Endrin	0.25	0.27	108	53-149
1031-07-8	Endosulfan sulfate	0.25	0.17	68	49-148
7421-93-4	Endrin aldehyde	0.25	0.26	104	45-137
53494-70-5	Endrin ketone	0.25	0.26	104	48-142
959-98-8	Endosulfan-I	0.25	0.27	108	54-139
33213-65-9	Endosulfan-II	0.25	0.28	112	54-142
76-44-8	Heptachlor	0.25	0.24	96	45-137
1024-57-3	Heptachlor epoxide	0.25	0.27	108	54-140
72-43-5	Methoxychlor	0.25	0.26	104	51-157

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	109%	26-132%
877-09-8	Tetrachloro-m-xylene	99%	26-132%
2051-24-3	Decachlorobiphenyl	77%	10-118%
2051-24-3	Decachlorobiphenyl	82%	10-118%

(a) Outside the QC limits.

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93898-BS1	6G35090.D	1	05/16/16	RK	05/13/16	OP93898	G6G1011

The QC reported here applies to the following samples: **Method:** SW846 8081B

JC20098-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
309-00-2	Aldrin	0.25	0.24	96	38-138
319-84-6	alpha-BHC	0.25	0.26	104	51-144
319-85-7	beta-BHC	0.25	0.25	100	55-137
319-86-8	delta-BHC	0.25	0.25	100	33-148
58-89-9	gamma-BHC (Lindane)	0.25	0.25	100	53-142
5103-71-9	alpha-Chlordane	0.25	0.25	100	52-137
5103-74-2	gamma-Chlordane	0.25	0.25	100	52-140
60-57-1	Dieldrin	0.25	0.26	104	54-144
72-54-8	4,4'-DDD	0.25	0.26	104	46-151
72-55-9	4,4'-DDE	0.25	0.25	100	51-142
50-29-3	4,4'-DDT	0.25	0.24	96	53-158
72-20-8	Endrin	0.25	0.27	108	53-149
1031-07-8	Endosulfan sulfate	0.25	0.27	108	49-148
7421-93-4	Endrin aldehyde	0.25	0.27	108	45-137
53494-70-5	Endrin ketone	0.25	0.27	108	48-142
959-98-8	Endosulfan-I	0.25	0.25	100	54-139
33213-65-9	Endosulfan-II	0.25	0.26	104	54-142
76-44-8	Heptachlor	0.25	0.23	92	45-137
1024-57-3	Heptachlor epoxide	0.25	0.25	100	54-140
72-43-5	Methoxychlor	0.25	0.26	104	51-157

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	102%	26-132%
877-09-8	Tetrachloro-m-xylene	98%	26-132%
2051-24-3	Decachlorobiphenyl	71%	10-118%
2051-24-3	Decachlorobiphenyl	75%	10-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93870-MS	4G68220.D	1	05/13/16	DS	05/12/16	OP93870	G4G1788
OP93870-MSD	4G68221.D	1	05/13/16	DS	05/12/16	OP93870	G4G1788
JC20058-1 [a]	4G68219.D	1	05/13/16	DS	05/12/16	OP93870	G4G1788

The QC reported here applies to the following samples: **Method:** SW846 8081B

JC20098-4

CAS No.	Compound	JC20058-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
309-00-2	Aldrin	ND		0.5	0.40	80	0.5	0.44	88	10	37-159/40
319-84-6	alpha-BHC	ND		0.5	0.33	66	0.5	0.36	72	9	37-164/37
319-85-7	beta-BHC	ND		0.5	0.43	86	0.5	0.46	92	7	46-151/36
319-86-8	delta-BHC	ND		0.5	0.025	5* [b]	0.5	0.026	5* [b]	4	32-168/36
58-89-9	gamma-BHC (Lindane)	ND		0.5	0.36	72	0.5	0.39	78	8	44-160/37
5103-71-9	alpha-Chlordane	ND		0.5	0.40	80	0.5	0.44	88	10	38-160/35
5103-74-2	gamma-Chlordane	ND		0.5	0.42	84	0.5	0.47	94	11	39-157/37
60-57-1	Dieldrin	ND		0.5	0.44	88	0.5	0.48	96	9	42-161/36
72-54-8	4,4'-DDD	ND		0.5	0.39	78	0.5	0.43	86	10	40-161/36
72-55-9	4,4'-DDE	ND		0.5	0.36	72	0.5	0.39	78	8	34-158/36
50-29-3	4,4'-DDT	ND		0.5	0.33	66	0.5	0.36	72	9	41-173/33
72-20-8	Endrin	ND		0.5	0.43	86	0.5	0.47	94	9	44-166/35
1031-07-8	Endosulfan sulfate	ND		0.5	0.28	56	0.5	0.31	62	10	46-161/36
7421-93-4	Endrin aldehyde	ND		0.5	0.45	90	0.5	0.50	100	11	34-149/36
53494-70-5	Endrin ketone	ND		0.5	0.45	90	0.5	0.49	98	9	44-157/36
959-98-8	Endosulfan-I	ND		0.5	0.46	92	0.5	0.51	102	10	43-154/35
33213-65-9	Endosulfan-II	ND		0.5	0.46	92	0.5	0.51	102	10	40-162/35
76-44-8	Heptachlor	ND		0.5	0.43	86	0.5	0.48	96	11	33-153/37
1024-57-3	Heptachlor epoxide	ND		0.5	0.43	86	0.5	0.48	96	11	45-154/37
72-43-5	Methoxychlor	ND		0.5	0.37	74	0.5	0.40	80	8	48-169/32
8001-35-2	Toxaphene	ND			ND			ND		nc	50-150/30

CAS No.	Surrogate Recoveries	MS	MSD	JC20058-1	Limits
877-09-8	Tetrachloro-m-xylene	89%	96%		26-132%
877-09-8	Tetrachloro-m-xylene	89%	95%		26-132%
2051-24-3	Decachlorobiphenyl	84%	93%		10-118%
2051-24-3	Decachlorobiphenyl	83%	91%		10-118%

(a) Sample used for QC purposes only.
(b) Outside the QC limits.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93898-MS	6G35150.D	1	05/17/16	RK	05/13/16	OP93898	G6G1012
OP93898-MSD	6G35151.D	1	05/17/16	RK	05/13/16	OP93898	G6G1012
JC20137-2	6G35149.D	1	05/17/16	RK	05/13/16	OP93898	G6G1012

The QC reported here applies to the following samples: **Method:** SW846 8081B

JC20098-5

CAS No.	Compound	JC20137-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
309-00-2	Aldrin	ND		0.505	0.54	107	0.505	0.59	117	9	37-159/40
319-84-6	alpha-BHC	ND		0.505	0.59	117	0.505	0.64	127	8	37-164/37
319-85-7	beta-BHC	ND		0.505	0.57	113	0.505	0.62	123	8	46-151/36
319-86-8	delta-BHC	ND		0.505	0.57	113	0.505	0.61	121	7	32-168/36
58-89-9	gamma-BHC (Lindane)	ND		0.505	0.59	117	0.505	0.64	127	8	44-160/37
5103-71-9	alpha-Chlordane	ND		0.505	0.55	109	0.505	0.60	119	9	38-160/35
5103-74-2	gamma-Chlordane	ND		0.505	0.55	109	0.505	0.61	121	10	39-157/37
60-57-1	Dieldrin	ND		0.505	0.57	113	0.505	0.63	125	10	42-161/36
72-54-8	4,4'-DDD	ND		0.505	0.55	109	0.505	0.61	121	10	40-161/36
72-55-9	4,4'-DDE	ND		0.505	0.52	103	0.505	0.56	111	7	34-158/36
50-29-3	4,4'-DDT	ND		0.505	0.47	93	0.505	0.52	103	10	41-173/33
72-20-8	Endrin	ND		0.505	0.60	119	0.505	0.66	131	10	44-166/35
1031-07-8	Endosulfan sulfate	ND		0.505	0.61	121	0.505	0.66	131	8	46-161/36
7421-93-4	Endrin aldehyde	ND		0.505	0.60	119	0.505	0.68	135	13	34-149/36
53494-70-5	Endrin ketone	ND		0.505	0.60	119	0.505	0.66	131	10	44-157/36
959-98-8	Endosulfan-I	ND		0.505	0.57	113	0.505	0.62	123	8	43-154/35
33213-65-9	Endosulfan-II	ND		0.505	0.57	113	0.505	0.63	125	10	40-162/35
76-44-8	Heptachlor	ND		0.505	0.55	109	0.505	0.60	119	9	33-153/37
1024-57-3	Heptachlor epoxide	ND		0.505	0.59	117	0.505	0.63	125	7	45-154/37
72-43-5	Methoxychlor	ND		0.505	0.50	99	0.505	0.56	111	11	48-169/32
8001-35-2	Toxaphene	ND			ND			ND		nc	50-150/30

CAS No.	Surrogate Recoveries	MS	MSD	JC20137-2	Limits
877-09-8	Tetrachloro-m-xylene	111%	94%	100%	26-132%
877-09-8	Tetrachloro-m-xylene	105%	101%	95%	26-132%
2051-24-3	Decachlorobiphenyl	71%	80%	60%	10-118%
2051-24-3	Decachlorobiphenyl	71%	82%	57%	10-118%

* = Outside of Control Limits.

Semivolatile Internal Standard Area Summary

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	G4G1787-CC1778	**Injection Date:**	05/12/16
Lab File ID:	4G68206.D	**Injection Time:**	22:24
Instrument ID:	GC4G	**Method:**	SW846 8081B

	IS 1 AREA	RT	IS 2 AREA	RT
Check Std	384776037	2.09	456783950	1.83
Upper Limit [a]	769552074	2.59	913567900	2.33
Lower Limit [b]	192388019	1.59	228391975	1.33

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT
ZZZZZZ	394777882	2.08	424367335	1.82
OP93826-MS	394434217	2.09	394140127	1.82
OP93826-LS4	394434217	2.09	394140127	1.82
OP93826-MSD	386901263	2.08	381883727	1.82
OP93826-LB11	402330265	2.10	404589595	1.84
OP93870-MB1	374295736	2.06	410860202	1.80
JC20098-4 [c]	367654760	2.06	333021950	1.79
JC20058-1	395290040	2.06	459350490	1.80
OP93870-MS	403992138	2.06	511006188	1.79
OP93870-MSD	387080315	2.07	484757519	1.80

IS 1 = 1-Bromo-2-nitrobenzene (Signal #2)
IS 2 = 1-Bromo-2-nitrobenzene (Signal #1)

(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) There is no additional sample for re-extraction.

Semivolatile Internal Standard Area Summary

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	G6G1010-CC987	**Injection Date:**	05/13/16
Lab File ID:	6G35034.D	**Injection Time:**	09:21
Instrument ID:	GC6G	**Method:**	SW846 8081B

	IS 1 AREA	RT	IS 2 AREA	RT
Check Std	49527034	1.57	134085773	1.29
Upper Limit [a]	99054068	2.07	268171546	1.79
Lower Limit [b]	24763517	1.07	67042887	0.79

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT
OP93857-MB1	55620982	1.56	153522112	1.29
OP93857-BS1	55143117	1.57	152633632	1.29
OP93857-BS13	56613016	1.57	156949817	1.29
JC19931-1	54984497	1.57	144551137	1.29
JC19951-1	50884308	1.56	135851435	1.29
OP93857-MS	55334485	1.57	157280003	1.30
OP93857-MSD	55729038	1.57	153308826	1.30
ZZZZZZ	46745597	1.57	111270589	1.30
ZZZZZZ	56520575	1.57	152137225	1.29
ZZZZZZ	49672848	1.57	124346051	1.29
ZZZZZZ	58935973	1.57	162169803	1.29
ZZZZZZ	48821512	1.57	120938265	1.30
ZZZZZZ	55430056	1.56	152950948	1.29
OP93870-BS1	52615384	1.57	141152600	1.29
ZZZZZZ	49399060	1.56	122007871	1.29
ZZZZZZ	57716165	1.57	161363098	1.30
ZZZZZZ	59502920	1.57	153945504	1.29
ZZZZZZ	58575842	1.57	160780596	1.29

IS 1 = 1-Bromo-2-nitrobenzene (Signal #2)
IS 2 = 1-Bromo-2-nitrobenzene (Signal #1)

(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

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	G6G1011-CC987	**Injection Date:**	05/16/16
Lab File ID:	6G35087.D	**Injection Time:**	09:35
Instrument ID:	GC6G	**Method:**	SW846 8081B

	IS 1 AREA	RT	IS 2 AREA	RT
Check Std	50400413	1.57	119028072	1.30
Upper Limit [a]	100800826	2.07	238056144	1.80
Lower Limit [b]	25200207	1.07	59514036	0.80

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT
OP93898-BS1	53454824	1.57	129407378	1.30
JC20098-5	52112669	1.57	123953155	1.30
OP93899-MB1	42444743	1.57	101323207	1.30
OP93899-BS1	41418126	1.57	105625130	1.30
OP93876-MB1	56439108	1.57	141622054	1.30
OP93876-BS1	57622321	1.57	141417901	1.30
ZZZZZZ	60273452	1.57	141334342	1.30
OP93898-MB1	51900154	1.57	128878891	1.30
ZZZZZZ	61126609	1.57	153071080	1.30
JC20045-3A	55437684	1.57	130173423	1.30
ZZZZZZ	60504778	1.57	149839884	1.30
ZZZZZZ	60128940	1.57	142354571	1.30
ZZZZZZ	62709969	1.57	153823484	1.30
ZZZZZZ	58181896	1.57	136673826	1.30
ZZZZZZ	63454382	1.57	153756816	1.30
ZZZZZZ	62260912	1.57	154754269	1.30

IS 1 = 1-Bromo-2-nitrobenzene (Signal #2)
IS 2 = 1-Bromo-2-nitrobenzene (Signal #1)

(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

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	G6G1012-CC987	**Injection Date:**	05/17/16
Lab File ID:	6G35139.D	**Injection Time:**	08:41
Instrument ID:	GC6G	**Method:**	SW846 8081B

	IS 1 AREA	RT	IS 2 AREA	RT
Check Std	49865169	1.57	124629763	1.30
Upper Limit [a]	99730338	2.07	249259526	1.80
Lower Limit [b]	24932585	1.07	62314882	0.80

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT
OP93928-MB1	48688257	1.57	123717336	1.29
OP93928-BS1	56189411	1.56	143019596	1.29
OP93899-MS	48438848	1.56	122398640	1.29
OP93899-MSD	50915041	1.56	127392679	1.29
ZZZZZZ	49148680	1.56	122633476	1.29
ZZZZZZ	49632570	1.56	125851234	1.29
JC20137-2	53146624	1.56	133068232	1.29
OP93898-MS	49693014	1.56	124284678	1.29
OP93898-MSD	48722602	1.56	119714634	1.29
ZZZZZZ	47073328	1.56	123786474	1.29
ZZZZZZ	56336239	1.56	145501458	1.29
JC20260-3	38205699	1.56	92184316	1.29
OP93928-MS	41181289	1.56	98864238	1.29
OP93928-MSD	41731023	1.56	100633797	1.29

IS 1 = 1-Bromo-2-nitrobenzene (Signal #2)
IS 2 = 1-Bromo-2-nitrobenzene (Signal #1)

(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.

DDT/Endrin Breakdown Check

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: G4G1778-DDT
Lab File ID: 4G67830.D
Instrument ID: GC4G
Injection Date: 05/02/16
Injection Time: 13:55

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	10193689	13113095
4,4'-DDE	4928073	5619299
4,4'-DDT	619882928	599939835
DDT Breakdown [a]	2.4 %	3 %
Endrin aldehyde	4622381	4711235
Endrin ketone	15245220	18350578
Endrin	357925656	324995826
Endrin Breakdown [b]	5.3 %	6.6 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

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
G4G1778-IC1778	4G67832.D	05/02/16	14:26	00:31	Initial cal 1
G4G1778-IC1778	4G67833.D	05/02/16	14:41	00:46	Initial cal 2
G4G1778-IC1778	4G67834.D	05/02/16	14:56	01:01	Initial cal 5
G4G1778-IC1778	4G67835.D	05/02/16	15:11	01:16	Initial cal 10
G4G1778-ICC1778	4G67836.D	05/02/16	15:26	01:31	Initial cal 25
G4G1778-IC1778	4G67837.D	05/02/16	15:41	01:46	Initial cal 50
G4G1778-IC1778	4G67838.D	05/02/16	15:57	02:02	Initial cal 75
G4G1778-IC1778	4G67839.D	05/02/16	16:12	02:17	Initial cal 100
G4G1778-IC1778	4G67840.D	05/02/16	16:27	02:32	Initial cal 500
G4G1778-IC1778	4G67841.D	05/02/16	16:42	02:47	Initial cal 500
G4G1778-ICV1778	4G67842.D	05/02/16	16:57	03:02	Initial cal verification 25
G4G1778-ICV1778	4G67843.D	05/02/16	17:12	03:17	Initial cal verification 25
G4G1778-ICV1778	4G67844.D	05/02/16	17:27	03:32	Initial cal verification 500
G4G1778-ICV1778	4G67845.D	05/02/16	17:43	03:48	Initial cal verification 500

DDT/Endrin Breakdown Check

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: G4G1787-DDT
Lab File ID: 4G68184.D
Instrument ID: GC4G
Injection Date: 05/12/16
Injection Time: 16:37

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	8315921	11802118
4,4'-DDE	3127241	5199566
4,4'-DDT	633980028	667035723
DDT Breakdown [a]	1.8 %	2.5 %
Endrin aldehyde	3869363	3080216
Endrin ketone	17727040	15380000
Endrin	416572324	375437430
Endrin Breakdown [b]	4.9 %	4.7 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

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
G4G1787-CC1778	4G68185.D	05/12/16	16:52	00:15	Continuing cal 25
OP93826-MB1	4G68191.D	05/12/16	18:37	02:00	Method Blank
OP93826-BS1	4G68192.D	05/12/16	18:52	02:15	Blank Spike
ZZZZZZ	4G68193.D	05/12/16	19:08	02:31	(unrelated sample)
ZZZZZZ	4G68194.D	05/12/16	19:23	02:46	(unrelated sample)
ZZZZZZ	4G68195.D	05/12/16	19:38	03:01	(unrelated sample)
JC19951-5A	4G68196.D	05/12/16	19:53	03:16	(used for QC only; not part of job JC20098)
ZZZZZZ	4G68197.D	05/12/16	20:08	03:31	(unrelated sample)
ZZZZZZ	4G68198.D	05/12/16	20:23	03:46	(unrelated sample)
ZZZZZZ	4G68199.D	05/12/16	20:38	04:01	(unrelated sample)
ZZZZZZ	4G68200.D	05/12/16	20:53	04:16	(unrelated sample)
ZZZZZZ	4G68201.D	05/12/16	21:09	04:32	(unrelated sample)
ZZZZZZ	4G68202.D	05/12/16	21:24	04:47	(unrelated sample)
ZZZZZZ	4G68203.D	05/12/16	21:39	05:02	(unrelated sample)
ZZZZZZ	4G68204.D	05/12/16	21:54	05:17	(unrelated sample)
ZZZZZZ	4G68205.D	05/12/16	22:09	05:32	(unrelated sample)
G4G1787-CC1778	4G68206.D	05/12/16	22:24	05:47	Continuing cal 50
ZZZZZZ	4G68208.D	05/12/16	22:55	06:18	(unrelated sample)
OP93826-MS	4G68209.D	05/12/16	23:10	06:33	Matrix Spike
OP93826-LS4	4G68209.D	05/12/16	23:10	06:33	Leachate Spike
OP93826-MSD	4G68210.D	05/12/16	23:25	06:48	Matrix Spike Duplicate
OP93826-LB11	4G68211.D	05/12/16	23:40	07:03	Leachate Blank
OP93870-MB1	4G68215.D	05/13/16	10:06	17:29	Method Blank
JC20098-4	4G68217.D	05/13/16	10:36	17:59	S-39S

DDT/Endrin Breakdown Check

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample:	G4G1787-DDT	**Injection Date:**	05/12/16
Lab File ID:	4G68184.D	**Injection Time:**	16:37
Instrument ID:	GC4G		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
JC20058-1	4G68219.D	05/13/16	11:06	18:29	(used for QC only; not part of job JC20098)
OP93870-MS	4G68220.D	05/13/16	11:21	18:44	Matrix Spike
OP93870-MSD	4G68221.D	05/13/16	11:37	19:00	Matrix Spike Duplicate

DDT/Endrin Breakdown Check

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: G6G987-DDT
Lab File ID: 6G34128.D
Instrument ID: GC6G
Injection Date: 04/14/16
Injection Time: 15:16

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	1311683	538829
4,4'-DDE	1018177	323855
4,4'-DDT	241695475	69919881
DDT Breakdown [a]	1 %	1.2 %
Endrin aldehyde	837149	354536
Endrin ketone	4035110	1631820
Endrin	120930300	37292116
Endrin Breakdown [b]	3.9 %	5.1 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

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
G6G987-IC987	6G34130.D	04/14/16	15:49	00:33	Initial cal 1
G6G987-IC987	6G34131.D	04/14/16	16:05	00:49	Initial cal 2
G6G987-IC987	6G34132.D	04/14/16	16:22	01:06	Initial cal 5
G6G987-IC987	6G34133.D	04/14/16	16:38	01:22	Initial cal 10
G6G987-ICC987	6G34134.D	04/14/16	16:55	01:39	Initial cal 25
G6G987-IC987	6G34135.D	04/14/16	17:11	01:55	Initial cal 50
G6G987-IC987	6G34136.D	04/14/16	17:27	02:11	Initial cal 75
G6G987-IC987	6G34137.D	04/14/16	17:44	02:28	Initial cal 100
G6G987-IC987	6G34138.D	04/14/16	18:00	02:44	Initial cal 500
G6G987-IC987	6G34139.D	04/14/16	18:17	03:01	Initial cal 500
G6G987-ICV987	6G34140.D	04/14/16	18:33	03:17	Initial cal verification 25
G6G987-ICV987	6G34141.D	04/14/16	18:49	03:33	Initial cal verification 25
G6G987-ICV987	6G34142.D	04/14/16	19:06	03:50	Initial cal verification 500
G6G987-ICV987	6G34143.D	04/14/16	19:22	04:06	Initial cal verification 500
G6G988-CC987	6G34144.D	04/14/16	19:39	04:23	Continuing cal 25
OP93053-MB1	6G34149.D	04/14/16	20:12	04:56	Method Blank
OP93053-BS1	6G34150.D	04/14/16	20:28	05:12	Blank Spike
ZZZZZZ	6G34148.D	04/14/16	21:17	06:01	(unrelated sample)
JC18127-1	6G34151.D	04/14/16	21:34	06:18	(used for QC only; not part of job JC20098)
OP93053-MS	6G34152.D	04/14/16	21:50	06:34	Matrix Spike
OP93053-MSD	6G34153.D	04/14/16	22:06	06:50	Matrix Spike Duplicate
ZZZZZZ	6G34154.D	04/14/16	22:23	07:07	(unrelated sample)
ZZZZZZ	6G34155.D	04/14/16	22:39	07:23	(unrelated sample)
ZZZZZZ	6G34156.D	04/14/16	22:56	07:40	(unrelated sample)

DDT/Endrin Breakdown Check

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample:	G6G987-DDT	**Injection Date:**	04/14/16
Lab File ID:	6G34128.D	**Injection Time:**	15:16
Instrument ID:	GC6G		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	6G34157.D	04/14/16	23:12	07:56	(unrelated sample)

DDT/Endrin Breakdown Check

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: G6G1010-DDT
Lab File ID: 6G35033.D
Instrument ID: GC6G
Injection Date: 05/13/16
Injection Time: 09:04

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	913107	1118577
4,4'-DDE	873583	362417
4,4'-DDT	269957616	89052964
DDT Breakdown [a]	0.7 %	1.6 %
Endrin aldehyde	1118465	515702
Endrin ketone	6002712	2461035
Endrin	146264457	52675190
Endrin Breakdown [b]	4.6 %	5.3 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

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
G6G1010-CC987	6G35034.D	05/13/16	09:21	00:17	Continuing cal 25
OP93857-MB1	6G35036.D	05/13/16	09:53	00:49	Method Blank
OP93857-BS1	6G35037.D	05/13/16	10:10	01:06	Blank Spike
OP93857-BS13	6G35038.D	05/13/16	10:26	01:22	Blank Spike
JC19931-1	6G35039.D	05/13/16	10:43	01:39	(used for QC only; not part of job JC20098)
JC19951-1	6G35040.D	05/13/16	10:59	01:55	(used for QC only; not part of job JC20098)
OP93857-MS	6G35041A.D	05/13/16	11:25	02:21	Matrix Spike
OP93857-MSD	6G35042.D	05/13/16	11:41	02:37	Matrix Spike Duplicate
ZZZZZZ	6G35043.D	05/13/16	11:57	02:53	(unrelated sample)
ZZZZZZ	6G35044.D	05/13/16	12:14	03:10	(unrelated sample)
ZZZZZZ	6G35045.D	05/13/16	12:30	03:26	(unrelated sample)
ZZZZZZ	6G35046.D	05/13/16	12:47	03:43	(unrelated sample)
ZZZZZZ	6G35047.D	05/13/16	13:03	03:59	(unrelated sample)
ZZZZZZ	6G35048.D	05/13/16	13:19	04:15	(unrelated sample)
OP93870-BS1	6G35053.D	05/13/16	13:49	04:45	Blank Spike
ZZZZZZ	6G35049A.D	05/13/16	14:40	05:36	(unrelated sample)
ZZZZZZ	6G35050.D	05/13/16	14:57	05:53	(unrelated sample)
ZZZZZZ	6G35051.D	05/13/16	15:13	06:09	(unrelated sample)
ZZZZZZ	6G35052.D	05/13/16	15:29	06:25	(unrelated sample)

DDT/Endrin Breakdown Check

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: G6G1011-DDT
Lab File ID: 6G35086.D
Instrument ID: GC6G
Injection Date: 05/16/16
Injection Time: 09:18

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	1582798	1095247
4,4'-DDE	1293188	393463
4,4'-DDT	187855941	69466544
DDT Breakdown [a]	1.5 %	2.1 %
Endrin aldehyde	1074730	482008
Endrin ketone	4573451	2078662
Endrin	102034987	41268096
Endrin Breakdown [b]	5.2 %	5.8 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

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
G6G1011-CC987	6G35087.D	05/16/16	09:35	00:17	Continuing cal 25
OP93898-BS1	6G35090.D	05/16/16	10:29	01:11	Blank Spike
JC20098-5	6G35091.D	05/16/16	10:46	01:28	RA19-GWD
OP93899-MB1	6G35092.D	05/16/16	11:02	01:44	Method Blank
OP93899-BS1	6G35093.D	05/16/16	11:19	02:01	Blank Spike
OP93876-MB1	6G35094.D	05/16/16	11:35	02:17	Method Blank
OP93876-BS1	6G35095.D	05/16/16	11:51	02:33	Blank Spike
ZZZZZZ	6G35096.D	05/16/16	12:08	02:50	(unrelated sample)
OP93898-MB1	6G35096A.D	05/16/16	12:24	03:06	Method Blank
ZZZZZZ	6G35097.D	05/16/16	12:41	03:23	(unrelated sample)
JC20045-3A	6G35098.D	05/16/16	12:57	03:39	(used for QC only; not part of job JC20098)
ZZZZZZ	6G35099.D	05/16/16	13:14	03:56	(unrelated sample)
ZZZZZZ	6G35100.D	05/16/16	13:30	04:12	(unrelated sample)
ZZZZZZ	6G35101.D	05/16/16	13:46	04:28	(unrelated sample)
ZZZZZZ	6G35102.D	05/16/16	14:03	04:45	(unrelated sample)
ZZZZZZ	6G35103.D	05/16/16	14:19	05:01	(unrelated sample)
ZZZZZZ	6G35104.D	05/16/16	14:35	05:17	(unrelated sample)

DDT/Endrin Breakdown Check

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: G6G1012-DDT
Lab File ID: 6G35138.D
Instrument ID: GC6G
Injection Date: 05/17/16
Injection Time: 08:25

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	699190	694169
4,4'-DDE	595628	301434
4,4'-DDT	190763475	71454990
DDT Breakdown [a]	0.7 %	1.4 %
Endrin aldehyde	841520	373436
Endrin ketone	4471118	2370650
Endrin	107651820	42174233
Endrin Breakdown [b]	4.7 %	6.1 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

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
G6G1012-CC987	6G35139.D	05/17/16	08:41	00:16	Continuing cal 25
OP93928-MB1	6G35143.D	05/17/16	09:47	01:22	Method Blank
OP93928-BS1	6G35144.D	05/17/16	10:04	01:39	Blank Spike
OP93899-MS	6G35145.D	05/17/16	10:20	01:55	Matrix Spike
OP93899-MSD	6G35146.D	05/17/16	10:36	02:11	Matrix Spike Duplicate
ZZZZZZ	6G35147.D	05/17/16	10:53	02:28	(unrelated sample)
ZZZZZZ	6G35148.D	05/17/16	11:09	02:44	(unrelated sample)
JC20137-2	6G35149.D	05/17/16	11:26	03:01	(used for QC only; not part of job JC20098)
OP93898-MS	6G35150.D	05/17/16	11:42	03:17	Matrix Spike
OP93898-MSD	6G35151.D	05/17/16	11:58	03:33	Matrix Spike Duplicate
ZZZZZZ	6G35152.D	05/17/16	12:15	03:50	(unrelated sample)
ZZZZZZ	6G35153.D	05/17/16	12:31	04:06	(unrelated sample)
JC20260-3	6G35154.D	05/17/16	12:48	04:23	(used for QC only; not part of job JC20098)
OP93928-MS	6G35155.D	05/17/16	13:04	04:39	Matrix Spike
OP93928-MSD	6G35156.D	05/17/16	13:20	04:55	Matrix Spike Duplicate

GC Identification Summary

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	G6G1010-CC987	**Injection Date:**	05/13/16
Lab File ID:	6G35034.D	**Injection Time:**	09:21
Instrument ID:	GC6G	**Method:**	SW846 8081B

Sample ID:	OP93870-BS1	**Injection Date:**	05/13/16
Lab File ID:	6G35053.D	**Injection Time:**	13:49
Client ID:	Blank Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aldrin	1	3.67	3.67	0.26		ug/l	3.9
Aldrin	2 [a]	4.69	4.69	0.25		ug/l	
alpha-BHC	1	2.48	2.48	0.22		ug/l	4.7
alpha-BHC	2 [a]	3.16	3.16	0.21		ug/l	
beta-BHC	1	2.88	2.88	0.28		ug/l	7.4
beta-BHC	2 [a]	3.70	3.70	0.26		ug/l	
delta-BHC	1 [a]	3.07	3.07	0.014		ug/l	13.3
delta-BHC	2	4.12	4.12	0.016		ug/l	
gamma-BHC (Lindane)	1	2.79	2.80	0.24		ug/l	4.3
gamma-BHC (Lindane)	2 [a]	3.61	3.61	0.23		ug/l	
alpha-Chlordane	1	4.77	4.77	0.27		ug/l	0.0
alpha-Chlordane	2 [a]	6.11	6.11	0.27		ug/l	
gamma-Chlordane	1	4.59	4.59	0.28		ug/l	3.6
gamma-Chlordane	2 [a]	5.87	5.87	0.27		ug/l	
Dieldrin	1	5.29	5.30	0.28		ug/l	3.6
Dieldrin	2 [a]	6.68	6.68	0.27		ug/l	
4,4'-DDD	1	5.79	5.79	0.27		ug/l	0.0
4,4'-DDD	2 [a]	7.45	7.45	0.27		ug/l	
4,4'-DDE	1	4.90	4.90	0.26		ug/l	8.0
4,4'-DDE	2 [a]	6.41	6.41	0.24		ug/l	
4,4'-DDT	1	6.24	6.24	0.25		ug/l	0.0
4,4'-DDT	2 [a]	8.02	8.02	0.25		ug/l	
Endrin	1	5.63	5.64	0.29		ug/l	7.1
Endrin	2 [a]	7.22	7.22	0.27		ug/l	
Endosulfan sulfate	1	7.38	7.38	0.19		ug/l	11.1
Endosulfan sulfate	2 [a]	8.75	8.75	0.17		ug/l	
Endrin aldehyde	1	6.65	6.65	0.28		ug/l	7.4
Endrin aldehyde	2 [a]	8.23	8.23	0.26		ug/l	
Endrin ketone	1	7.86	7.86	0.27		ug/l	3.8
Endrin ketone	2 [a]	9.79	9.79	0.26		ug/l	
Endosulfan-I	1	4.95	4.95	0.29		ug/l	7.1
Endosulfan-I	2 [a]	6.21	6.21	0.27		ug/l	
Endosulfan-II	1	5.98	5.98	0.28		ug/l	0.0
Endosulfan-II	2 [a]	7.60	7.61	0.28		ug/l	
Heptachlor	1	3.32	3.32	0.26		ug/l	8.0
Heptachlor	2 [a]	4.21	4.21	0.24		ug/l	
Heptachlor epoxide	1	4.42	4.42	0.29		ug/l	7.1
Heptachlor epoxide	2 [a]	5.56	5.57	0.27		ug/l	
Methoxychlor	1 [a]	7.11	7.11	0.26		ug/l	0.0
Methoxychlor	2	9.40	9.40	0.26		ug/l	

(a) QC results reported from this column.

GC Identification Summary

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	G6G1011-CC987	**Injection Date:**	05/16/16
Lab File ID:	6G35087.D	**Injection Time:**	09:35
Instrument ID:	GC6G	**Method:**	SW846 8081B

Sample ID:	OP93898-BS1	**Injection Date:**	05/16/16
Lab File ID:	6G35090.D	**Injection Time:**	10:29
Client ID:	Blank Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aldrin	1 [a]	3.67	3.67	0.24		ug/l	4.1
Aldrin	2	4.69	4.69	0.25		ug/l	
alpha-BHC	1	2.48	2.48	0.27		ug/l	3.8
alpha-BHC	2 [a]	3.16	3.16	0.26		ug/l	
beta-BHC	1	2.88	2.88	0.27		ug/l	7.7
beta-BHC	2 [a]	3.70	3.70	0.25		ug/l	
delta-BHC	1	3.07	3.07	0.26		ug/l	3.9
delta-BHC	2 [a]	4.12	4.12	0.25		ug/l	
gamma-BHC (Lindane)	1	2.80	2.79	0.27		ug/l	7.7
gamma-BHC (Lindane)	2 [a]	3.61	3.61	0.25		ug/l	
alpha-Chlordane	1 [a]	4.77	4.77	0.25		ug/l	0.0
alpha-Chlordane	2	6.11	6.11	0.25		ug/l	
gamma-Chlordane	1 [a]	4.59	4.59	0.25		ug/l	0.0
gamma-Chlordane	2	5.87	5.87	0.25		ug/l	
Dieldrin	1 [a]	5.30	5.29	0.26		ug/l	3.8
Dieldrin	2	6.68	6.68	0.27		ug/l	
4,4'-DDD	1 [a]	5.79	5.79	0.26		ug/l	0.0
4,4'-DDD	2	7.44	7.44	0.26		ug/l	
4,4'-DDE	1 [a]	4.90	4.90	0.25		ug/l	3.9
4,4'-DDE	2	6.41	6.41	0.26		ug/l	
4,4'-DDT	1 [a]	6.24	6.24	0.24		ug/l	4.1
4,4'-DDT	2	8.02	8.02	0.25		ug/l	
Endrin	1	5.63	5.64	0.40		ug/l	38.8
Endrin	2 [a]	7.22	7.22	0.27		ug/l	
Endosulfan sulfate	1	7.38	7.38	0.28		ug/l	3.6
Endosulfan sulfate	2 [a]	8.75	8.75	0.27		ug/l	
Endrin aldehyde	1	6.65	6.64	0.28		ug/l	3.6
Endrin aldehyde	2 [a]	8.23	8.23	0.27		ug/l	
Endrin ketone	1	7.86	7.85	0.28		ug/l	3.6
Endrin ketone	2 [a]	9.79	9.79	0.27		ug/l	
Endosulfan-I	1	4.95	4.95	0.25		ug/l	0.0
Endosulfan-I	2 [a]	6.21	6.21	0.25		ug/l	
Endosulfan-II	1	5.98	5.98	0.27		ug/l	3.8
Endosulfan-II	2 [a]	7.60	7.60	0.26		ug/l	
Heptachlor	1	3.32	3.32	0.24		ug/l	4.3
Heptachlor	2 [a]	4.21	4.21	0.23		ug/l	
Heptachlor epoxide	1	4.42	4.42	0.26		ug/l	3.9
Heptachlor epoxide	2 [a]	5.56	5.56	0.25		ug/l	
Methoxychlor	1	7.10	7.10	0.26		ug/l	0.0
Methoxychlor	2 [a]	9.40	9.40	0.26		ug/l	

(a) QC results reported from this column.

GC Identification Summary

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	G4G1787-CC1778	**Injection Date:**	05/12/16
Lab File ID:	4G68206.D	**Injection Time:**	22:24
Instrument ID:	GC4G	**Method:**	SW846 8081B

Sample ID:	OP93870-MS	**Injection Date:**	05/13/16
Lab File ID:	4G68220.D	**Injection Time:**	11:21
Client ID:	Matrix Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aldrin	1 [a]	4.42	4.43	0.40		ug/l	7.2
Aldrin	2	5.44	5.45	0.43		ug/l	
alpha-BHC	1 [a]	3.14	3.16	0.33		ug/l	5.9
alpha-BHC	2	3.85	3.87	0.35		ug/l	
beta-BHC	1 [a]	3.60	3.61	0.43		ug/l	11.0
beta-BHC	2	4.43	4.44	0.48		ug/l	
delta-BHC	1	3.82	4.06	0.021		ug/l	17.4
delta-BHC	2 [a]	4.86	4.87	0.025		ug/l	
gamma-BHC (Lindane)	1 [a]	3.49	3.50	0.36		ug/l	10.5
gamma-BHC (Lindane)	2	4.33	4.34	0.40		ug/l	
alpha-Chlordane	1 [a]	5.55	5.55	0.40		ug/l	11.8
alpha-Chlordane	2	6.83	6.84	0.45		ug/l	
gamma-Chlordane	1 [a]	5.37	5.37	0.42		ug/l	6.9
gamma-Chlordane	2	6.60	6.61	0.45		ug/l	
Dieldrin	1 [a]	6.07	6.07	0.44		ug/l	6.6
Dieldrin	2	7.39	7.39	0.47		ug/l	
4,4'-DDD	1 [a]	6.57	6.57	0.39		ug/l	14.3
4,4'-DDD	2	8.07	8.07	0.45		ug/l	
4,4'-DDE	1 [a]	5.68	5.69	0.36		ug/l	28.6
4,4'-DDE	2	7.09	7.10	0.48		ug/l	
4,4'-DDT	1 [a]	6.98	6.99	0.33		ug/l	30.8
4,4'-DDT	2	8.61	8.61	0.45		ug/l	
Endrin	1 [a]	6.41	6.41	0.43		ug/l	13.0
Endrin	2	7.90	7.91	0.49		ug/l	
Endosulfan sulfate	1 [a]	8.08	8.08	0.28		ug/l	10.2
Endosulfan sulfate	2	9.32	9.32	0.31		ug/l	
Endrin aldehyde	1 [a]	7.38	7.39	0.45		ug/l	10.5
Endrin aldehyde	2	8.84	8.84	0.50		ug/l	
Endrin ketone	1 [a]	8.54	8.54	0.45		ug/l	8.5
Endrin ketone	2	10.18	10.18	0.49		ug/l	
Endosulfan-I	1 [a]	5.73	5.74	0.46		ug/l	2.2
Endosulfan-I	2	6.94	6.94	0.45		ug/l	
Endosulfan-II	1 [a]	6.75	6.75	0.46		ug/l	2.2
Endosulfan-II	2	8.26	8.27	0.47		ug/l	
Heptachlor	1	4.04	3.83	0.37		ug/l	15.0
Heptachlor	2 [a]	4.96	4.97	0.43		ug/l	
Heptachlor epoxide	1 [a]	5.18	5.19	0.43		ug/l	6.7
Heptachlor epoxide	2	6.30	6.31	0.46		ug/l	
Methoxychlor	1 [a]	7.80	7.80	0.37		ug/l	23.8
Methoxychlor	2	9.82	9.82	0.47		ug/l	

(a) QC results reported from this column.

GC Identification Summary

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	G6G1012-CC987	**Injection Date:**	05/17/16
Lab File ID:	6G35139.D	**Injection Time:**	08:41
Instrument ID:	GC6G	**Method:**	SW846 8081B

Sample ID:	OP93898-MS	**Injection Date:**	05/17/16
Lab File ID:	6G35150.D	**Injection Time:**	11:42
Client ID:	Matrix Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aldrin	1 [a]	3.67	3.67	0.54		ug/l	5.7
Aldrin	2	4.68	4.68	0.51		ug/l	
alpha-BHC	1 [a]	2.48	2.48	0.59		ug/l	5.2
alpha-BHC	2	3.16	3.16	0.56		ug/l	
beta-BHC	1 [a]	2.87	2.87	0.57		ug/l	7.3
beta-BHC	2	3.70	3.70	0.53		ug/l	
delta-BHC	1 [a]	3.07	3.07	0.57		ug/l	5.4
delta-BHC	2	4.11	4.11	0.54		ug/l	
gamma-BHC (Lindane)	1 [a]	2.79	2.79	0.59		ug/l	7.0
gamma-BHC (Lindane)	2	3.61	3.61	0.55		ug/l	
alpha-Chlordane	1 [a]	4.77	4.77	0.55		ug/l	5.6
alpha-Chlordane	2	6.11	6.11	0.52		ug/l	
gamma-Chlordane	1 [a]	4.59	4.59	0.55		ug/l	5.6
gamma-Chlordane	2	5.87	5.87	0.52		ug/l	
Dieldrin	1 [a]	5.29	5.29	0.57		ug/l	5.4
Dieldrin	2	6.68	6.68	0.54		ug/l	
4,4'-DDD	1 [a]	5.79	5.79	0.55		ug/l	1.8
4,4'-DDD	2	7.44	7.44	0.54		ug/l	
4,4'-DDE	1 [a]	4.90	4.90	0.52		ug/l	8.0
4,4'-DDE	2	6.41	6.41	0.48		ug/l	
4,4'-DDT	1 [a]	6.23	6.24	0.47		ug/l	2.1
4,4'-DDT	2	8.02	8.02	0.48		ug/l	
Endrin	1 [a]	5.63	5.63	0.60		ug/l	5.1
Endrin	2	7.22	7.22	0.57		ug/l	
Endosulfan sulfate	1 [a]	7.38	7.38	0.61		ug/l	8.5
Endosulfan sulfate	2	8.74	8.74	0.56		ug/l	
Endrin aldehyde	1 [a]	6.64	6.64	0.60		ug/l	6.9
Endrin aldehyde	2	8.23	8.23	0.56		ug/l	
Endrin ketone	1 [a]	7.85	7.85	0.60		ug/l	6.9
Endrin ketone	2	9.79	9.79	0.56		ug/l	
Endosulfan-I	1 [a]	4.95	4.95	0.57		ug/l	7.3
Endosulfan-I	2	6.21	6.21	0.53		ug/l	
Endosulfan-II	1 [a]	5.97	5.97	0.57		ug/l	1.8
Endosulfan-II	2	7.60	7.60	0.56		ug/l	
Heptachlor	1 [a]	3.32	3.32	0.55		ug/l	7.5
Heptachlor	2	4.21	4.21	0.51		ug/l	
Heptachlor epoxide	1 [a]	4.41	4.41	0.59		ug/l	7.0
Heptachlor epoxide	2	5.56	5.56	0.55		ug/l	
Methoxychlor	1 [a]	7.10	7.10	0.50		ug/l	0.0
Methoxychlor	2	9.40	9.39	0.50		ug/l	

(a) QC results reported from this column.

GC Identification Summary

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	G4G1787-CC1778	**Injection Date:**	05/12/16
Lab File ID:	4G68206.D	**Injection Time:**	22:24
Instrument ID:	GC4G	**Method:**	SW846 8081B

Sample ID:	OP93870-MSD	**Injection Date:**	05/13/16
Lab File ID:	4G68221.D	**Injection Time:**	11:37
Client ID:	Matrix Spike Duplicate		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aldrin	1 [a]	4.42	4.43	0.44		ug/l	6.6
Aldrin	2	5.44	5.45	0.47		ug/l	
alpha-BHC	1 [a]	3.15	3.16	0.36		ug/l	5.4
alpha-BHC	2	3.86	3.87	0.38		ug/l	
beta-BHC	1 [a]	3.61	3.61	0.46		ug/l	10.3
beta-BHC	2	4.43	4.44	0.51		ug/l	
delta-BHC	1	3.83	4.06	0.025		ug/l	3.9
delta-BHC	2 [a]	4.86	4.87	0.026		ug/l	
gamma-BHC (Lindane)	1 [a]	3.49	3.50	0.39		ug/l	9.8
gamma-BHC (Lindane)	2	4.33	4.34	0.43		ug/l	
alpha-Chlordane	1 [a]	5.55	5.55	0.44		ug/l	10.8
alpha-Chlordane	2	6.83	6.84	0.49		ug/l	
gamma-Chlordane	1 [a]	5.37	5.37	0.47		ug/l	6.2
gamma-Chlordane	2	6.60	6.61	0.50		ug/l	
Dieldrin	1 [a]	6.07	6.07	0.48		ug/l	8.0
Dieldrin	2	7.39	7.39	0.52		ug/l	
4,4'-DDD	1 [a]	6.57	6.57	0.43		ug/l	13.0
4,4'-DDD	2	8.07	8.07	0.49		ug/l	
4,4'-DDE	1 [a]	5.68	5.69	0.39		ug/l	28.6
4,4'-DDE	2	7.09	7.10	0.52		ug/l	
4,4'-DDT	1 [a]	6.99	6.99	0.36		ug/l	30.6
4,4'-DDT	2	8.61	8.61	0.49		ug/l	
Endrin	1 [a]	6.41	6.41	0.47		ug/l	12.0
Endrin	2	7.91	7.91	0.53		ug/l	
Endosulfan sulfate	1 [a]	8.08	8.08	0.31		ug/l	9.2
Endosulfan sulfate	2	9.32	9.32	0.34		ug/l	
Endrin aldehyde	1 [a]	7.38	7.39	0.50		ug/l	7.7
Endrin aldehyde	2	8.84	8.84	0.54		ug/l	
Endrin ketone	1 [a]	8.54	8.54	0.49		ug/l	7.8
Endrin ketone	2	10.18	10.18	0.53		ug/l	
Endosulfan-I	1 [a]	5.73	5.74	0.51		ug/l	4.0
Endosulfan-I	2	6.94	6.94	0.49		ug/l	
Endosulfan-II	1 [a]	6.75	6.75	0.51		ug/l	0.0
Endosulfan-II	2	8.26	8.27	0.51		ug/l	
Heptachlor	1	4.05	3.83	0.42		ug/l	13.3
Heptachlor	2 [a]	4.96	4.97	0.48		ug/l	
Heptachlor epoxide	1 [a]	5.18	5.19	0.48		ug/l	4.1
Heptachlor epoxide	2	6.30	6.31	0.50		ug/l	
Methoxychlor	1 [a]	7.80	7.80	0.40		ug/l	24.2
Methoxychlor	2	9.82	9.82	0.51		ug/l	

(a) QC results reported from this column.

GC Identification Summary

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	G6G1012-CC987	**Injection Date:**	05/17/16
Lab File ID:	6G35139.D	**Injection Time:**	08:41
Instrument ID:	GC6G	**Method:**	SW846 8081B

Sample ID:	OP93898-MSD	**Injection Date:**	05/17/16
Lab File ID:	6G35151.D	**Injection Time:**	11:58
Client ID:	Matrix Spike Duplicate		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aldrin	1 [a]	3.67	3.67	0.59		ug/l	5.2
Aldrin	2	4.68	4.68	0.56		ug/l	
alpha-BHC	1 [a]	2.48	2.48	0.64		ug/l	8.1
alpha-BHC	2	3.16	3.16	0.59		ug/l	
beta-BHC	1 [a]	2.87	2.87	0.62		ug/l	10.2
beta-BHC	2	3.70	3.70	0.56		ug/l	
delta-BHC	1 [a]	3.07	3.07	0.61		ug/l	5.0
delta-BHC	2	4.11	4.11	0.58		ug/l	
gamma-BHC (Lindane)	1 [a]	2.79	2.79	0.64		ug/l	8.1
gamma-BHC (Lindane)	2	3.61	3.61	0.59		ug/l	
alpha-Chlordane	1 [a]	4.77	4.77	0.60		ug/l	5.1
alpha-Chlordane	2	6.11	6.11	0.57		ug/l	
gamma-Chlordane	1 [a]	4.59	4.59	0.61		ug/l	6.8
gamma-Chlordane	2	5.87	5.87	0.57		ug/l	
Dieldrin	1 [a]	5.29	5.29	0.63		ug/l	8.3
Dieldrin	2	6.68	6.68	0.58		ug/l	
4,4'-DDD	1 [a]	5.79	5.79	0.61		ug/l	1.7
4,4'-DDD	2	7.44	7.44	0.60		ug/l	
4,4'-DDE	1 [a]	4.90	4.90	0.56		ug/l	1.8
4,4'-DDE	2	6.41	6.41	0.57		ug/l	
4,4'-DDT	1 [a]	6.24	6.24	0.52		ug/l	3.8
4,4'-DDT	2	8.02	8.02	0.54		ug/l	
Endrin	1 [a]	5.63	5.63	0.66		ug/l	4.7
Endrin	2	7.22	7.22	0.63		ug/l	
Endosulfan sulfate	1 [a]	7.38	7.38	0.66		ug/l	9.5
Endosulfan sulfate	2	8.74	8.74	0.60		ug/l	
Endrin aldehyde	1 [a]	6.64	6.64	0.68		ug/l	10.9
Endrin aldehyde	2	8.23	8.23	0.61		ug/l	
Endrin ketone	1 [a]	7.85	7.85	0.66		ug/l	9.5
Endrin ketone	2	9.79	9.79	0.60		ug/l	
Endosulfan-I	1 [a]	4.95	4.95	0.62		ug/l	6.7
Endosulfan-I	2	6.21	6.21	0.58		ug/l	
Endosulfan-II	1 [a]	5.98	5.97	0.63		ug/l	1.6
Endosulfan-II	2	7.60	7.60	0.62		ug/l	
Heptachlor	1 [a]	3.32	3.32	0.60		ug/l	10.5
Heptachlor	2	4.21	4.21	0.54		ug/l	
Heptachlor epoxide	1 [a]	4.41	4.41	0.63		ug/l	6.6
Heptachlor epoxide	2	5.56	5.56	0.59		ug/l	
Methoxychlor	1 [a]	7.10	7.10	0.56		ug/l	3.5
Methoxychlor	2	9.39	9.39	0.58		ug/l	

(a) QC results reported from this column.

Semivolatile Surrogate Recovery Summary

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Method: SW846 8081B **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]	S2 [a]	S2 [b]
JC20098-4	4G68217.D	109	72	82	51
JC20098-5	6G35091.D	81	73	37	38
OP93870-BS1	6G35053.D	109	99	77	82
OP93870-MB1	4G68215.D	99	94	80	70
OP93870-MS	4G68220.D	89	89	84	83
OP93870-MSD	4G68221.D	96	95	93	91
OP93898-BS1	6G35090.D	102	98	71	75
OP93898-MB1	6G35096A.D	92	90	87	93
OP93898-MS	6G35150.D	111	105	71	71
OP93898-MSD	6G35151.D	94	101	80	82

Surrogate Compounds	Recovery Limits
S1 = Tetrachloro-m-xylene	26-132%
S2 = Decachlorobiphenyl	10-118%

(a) Recovery from GC signal #1
(b) Recovery from GC signal #2

GC Surrogate Retention Time Summary

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	G6G1011-CC987	**Injection Date:**	05/16/16
Lab File ID:	6G35087.D	**Injection Time:**	09:35
Instrument ID:	GC6G	**Method:**	SW846 8081B

	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
Check Std	1.97	2.46	9.89	11.73

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
OP93898-BS1	6G35090.D	05/16/16	10:29	1.97	2.46	9.89	11.73
JC20098-5	6G35091.D	05/16/16	10:46	1.97	2.46	9.89	11.73
OP93899-MB1	6G35092.D	05/16/16	11:02	1.97	2.46	9.89	11.73
OP93899-BS1	6G35093.D	05/16/16	11:19	1.97	2.46	9.89	11.73
OP93876-MB1	6G35094.D	05/16/16	11:35	1.97	2.46	9.89	11.73
OP93876-BS1	6G35095.D	05/16/16	11:51	1.97	2.46	9.89	11.73
ZZZZZZ	6G35096.D	05/16/16	12:08	1.97	2.46	9.89	11.73
OP93898-MB1	6G35096A.D	05/16/16	12:24	1.97	2.46	9.89	11.73
ZZZZZZ	6G35097.D	05/16/16	12:41	1.97	2.46	9.89	11.73
JC20045-3A	6G35098.D	05/16/16	12:57	1.97	2.46	9.89	11.73
ZZZZZZ	6G35099.D	05/16/16	13:14	1.97	2.46	9.89	11.73
ZZZZZZ	6G35100.D	05/16/16	13:30	1.97	2.46	9.89	11.73
ZZZZZZ	6G35101.D	05/16/16	13:46	1.97	2.46	9.89	11.73
ZZZZZZ	6G35102.D	05/16/16	14:03	1.97	2.46	9.89	11.73
ZZZZZZ	6G35103.D	05/16/16	14:19	1.97	2.46	9.89	11.73
ZZZZZZ	6G35104.D	05/16/16	14:35	1.97	2.46	9.89	11.73

Surrogate Compounds

S1 = Tetrachloro-m-xylene
S2 = Decachlorobiphenyl

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

GC Surrogate Retention Time Summary

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	G4G1787-CC1778	**Injection Date:**	05/12/16
Lab File ID:	4G68206.D	**Injection Time:**	22:24
Instrument ID:	GC4G	**Method:**	SW846 8081B

	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
Check Std	2.60	3.11	10.23	11.63

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
ZZZZZZ	4G68208.D	05/12/16	22:55	2.60	3.11	10.24	11.63
OP93826-MS	4G68209.D	05/12/16	23:10	2.60	3.11	10.24	11.63
OP93826-LS4	4G68209.D	05/12/16	23:10	2.60	3.11	10.24	11.63
OP93826-MSD	4G68210.D	05/12/16	23:25	2.60	3.11	10.23	11.63
OP93826-LB11	4G68211.D	05/12/16	23:40	2.61	3.12	10.24	11.63
OP93870-MB1	4G68215.D	05/13/16	10:06	2.59	3.09	10.24	11.64
JC20098-4	4G68217.D	05/13/16	10:36	2.58	3.10	10.23	11.63
JC20058-1	4G68219.D	05/13/16	11:06				
OP93870-MS	4G68220.D	05/13/16	11:21	2.58	3.09	10.23	11.64
OP93870-MSD	4G68221.D	05/13/16	11:37	2.59	3.10	10.23	11.64

Surrogate Compounds

S1 = Tetrachloro-m-xylene
S2 = Decachlorobiphenyl

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

GC Surrogate Retention Time Summary

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	G6G1010-CC987	**Injection Date:**	05/13/16
Lab File ID:	6G35034.D	**Injection Time:**	09:21
Instrument ID:	GC6G	**Method:**	SW846 8081B

	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
Check Std	1.97	2.46	9.89	11.74

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
OP93857-MB1	6G35036.D	05/13/16	09:53	1.97	2.46	9.89	11.74
OP93857-BS1	6G35037.D	05/13/16	10:10	1.97	2.46	9.89	11.74
OP93857-BS13	6G35038.D	05/13/16	10:26	1.97	2.46	9.89	11.74
JC19931-1	6G35039.D	05/13/16	10:43	1.97	2.46	9.89	11.73
JC19951-1	6G35040.D	05/13/16	10:59	1.97	2.46	9.89	11.74
OP93857-MS	6G35041A.D	05/13/16	11:25	1.98	2.46	9.90	11.74
OP93857-MSD	6G35042.D	05/13/16	11:41	1.97	2.46	9.89	11.74
ZZZZZZ	6G35043.D	05/13/16	11:57	1.97	2.46	9.89	11.74
ZZZZZZ	6G35044.D	05/13/16	12:14	1.97	2.46	9.89	11.74
ZZZZZZ	6G35045.D	05/13/16	12:30	1.97	2.46	9.89	11.74
ZZZZZZ	6G35046.D	05/13/16	12:47	1.97	2.46	9.89	11.74
ZZZZZZ	6G35047.D	05/13/16	13:03	1.97	2.46	9.89	11.74
ZZZZZZ	6G35048.D	05/13/16	13:19	1.97	2.46	9.89	11.74
OP93870-BS1	6G35053.D	05/13/16	13:49	1.97	2.46	9.89	11.74
ZZZZZZ	6G35049A.D	05/13/16	14:40	1.97	2.46	9.89	11.73
ZZZZZZ	6G35050.D	05/13/16	14:57	1.97	2.46	9.89	11.74
ZZZZZZ	6G35051.D	05/13/16	15:13	1.97	2.46	9.89	11.74
ZZZZZZ	6G35052.D	05/13/16	15:29	1.97	2.46	9.89	11.74

Surrogate Compounds

S1 = Tetrachloro-m-xylene
S2 = Decachlorobiphenyl

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

GC Surrogate Retention Time Summary

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	G6G1012-CC987	**Injection Date:**	05/17/16
Lab File ID:	6G35139.D	**Injection Time:**	08:41
Instrument ID:	GC6G	**Method:**	SW846 8081B

	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
Check Std	1.97	2.46	9.88	11.73

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
OP93928-MB1	6G35143.D	05/17/16	09:47	1.97	2.46	9.88	11.73
OP93928-BS1	6G35144.D	05/17/16	10:04	1.97	2.46	9.89	11.73
OP93899-MS	6G35145.D	05/17/16	10:20	1.97	2.46	9.88	11.73
OP93899-MSD	6G35146.D	05/17/16	10:36	1.97	2.46	9.88	11.73
ZZZZZZ	6G35147.D	05/17/16	10:53	1.97	2.46	9.90	11.72
ZZZZZZ	6G35148.D	05/17/16	11:09	1.97	2.46	9.88	11.73
JC20137-2	6G35149.D	05/17/16	11:26	1.97	2.45	9.88	11.73
OP93898-MS	6G35150.D	05/17/16	11:42	1.97	2.46	9.88	11.73
OP93898-MSD	6G35151.D	05/17/16	11:58	1.97	2.46	9.88	11.73
ZZZZZZ	6G35152.D	05/17/16	12:15	1.97	2.46	9.88	11.73
ZZZZZZ	6G35153.D	05/17/16	12:31	1.97	2.46	9.88	11.73
JC20260-3	6G35154.D	05/17/16	12:48	1.97	2.46	9.89	11.73
OP93928-MS	6G35155.D	05/17/16	13:04	1.97	2.46	9.89	11.73
OP93928-MSD	6G35156.D	05/17/16	13:20	1.97	2.46	9.89	11.73

Surrogate Compounds

S1 = Tetrachloro-m-xylene
S2 = Decachlorobiphenyl

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

Initial Calibration Summary

Job Number: JC20098 **Sample:** G4G1778-ICC1778
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4G67836.D
Project: BMSMC, Building 5 Area, PR

Response Factor Report GC4G

Method : C:\MSDCHEM\1\METHODS\4PST1778.M (ChemStation Integrator)
Title : PEST/PCB
Last Update : Tue May 03 15:20:09 2016
Response via : Initial Calibration

Calibration Files
2 =4g67833.D 5 =4g67834.D 10 =4g67835.D 25 =4g67836.D
50 =4g67837.D 100 =4g67839.D 1 =4g67832.D 75 =4g67838.D

Compound	2	5	10	25	50	100	1	75	Avg	%RSD
1) I 1-bromo-2-nitrobenzen	ISTD									
2) Tetrachloro-	0.874	0.852	0.846	0.862	0.858	0.889	0.860	0.854	0.862	1.59
3) alpha-BHC	1.097	1.061	1.094	1.157	1.230	1.321	1.166	1.312	1.180	8.42
4) gamma-BHC	0.955	0.931	0.975	1.022	1.086	1.165	0.960	1.159	1.032	9.08
5) Heptachlor	0.867	0.848	0.880	0.938	1.060	1.151	0.871	1.133	0.968	13.05
6) beta-BHC	0.452	0.450	0.484	0.485	0.524	0.537	0.475	0.547	0.494	7.54
7) delta-BHC	0.866	0.845	0.875	0.904	0.988	1.071	0.917	1.051	0.940	9.20
8) Aldrin	0.916	0.887	0.925	0.971	1.033	1.114	0.953	1.106	0.988	8.78
9) Heptachlor E	0.823	0.784	0.824	0.860	0.931	1.000	0.859	0.982	0.883	8.94
10) gamma-Chlord	0.789	0.793	0.807	0.873	0.941	1.026	0.824	1.007	0.883	10.97
11) alpha-Chlord	0.960	0.876	0.862	0.897	0.952	1.020	1.036	1.008	0.952	7.07
12) Endosulfan I	0.941	0.886	0.899	0.940	0.992	1.056	1.065	1.050	0.979	7.39
13) 4,4'-DDE	0.876	0.782	0.755	0.811	0.886	0.979	1.016	0.954	0.882	10.82
14) Dieldrin	0.799	0.819	0.852	0.923	1.004	1.097	0.853	1.077	0.928	12.65
15) Endrin	0.853	0.769	0.804	0.849	0.923	1.009	0.861	1.000	0.883	9.85
16) 4,4'-DDD	0.689	0.624	0.657	0.729	0.790	0.881	0.747	0.867	0.748	12.49
17) Endosulfan I	0.782	0.750	0.784	0.850	0.910	1.002	0.727	0.995	0.850	12.70
18) 4,4'-DDT	0.360	0.374	0.438	0.520	0.606	0.722	0.369	0.685	0.509	28.81
----- Quadratic regression ----- Coefficient = 0.9995										
Response Ratio = -0.01241 + 0.51421 *A + 0.10940 *A^2										
19) Endrin Aldeh	0.669	0.627	0.665	0.702	0.755	0.796	0.727	0.800	0.718	8.83
20) Endosulfan S	0.743	0.697	0.731	0.763	0.812	0.863	0.768	0.858	0.779	7.70
21) Methoxychlor	0.287	0.262	0.310	0.337	0.370	0.402	0.302	0.396	0.333	15.53
22) Mirex	0.757	0.744	0.768	0.767	0.781	0.797	0.793	0.808	0.777	2.77
23) Endrin Keton	0.871	0.787	0.839	0.904	0.969	1.026	0.783	1.030	0.901	10.98
24) Decachlorobi	0.832	0.761	0.795	0.807	0.799	0.835	0.833	0.837	0.812	3.31
25) I 1-bromo-2-nitrobenzen	ISTD									
26) Toxaphene{A}					0.032				0.032	0.00
27) Toxaphene{B}					0.033				0.033	0.00
28) Toxaphene{C}					0.045				0.045	0.00
29) Toxaphene{D}					0.030				0.030	0.00
30) Toxaphene{E}					0.020				0.020	0.00
31) I 1-bromo-2-nitrobenzen	ISTD									
32) Chlordane {A					0.028				0.028	0.00
33) Chlordane {B					0.036				0.036	0.00
34) Chlordane {C					0.122				0.122	0.00
35) Chlordane {D					0.199				0.199	0.00
36) Chlordane {E					0.030				0.030	0.00

Signal #2

1) I 1-bromo-2-nitrobenzen ----------ISTD----------

Initial Calibration Summary

Job Number: JC20098 **Sample:** G4G1778-ICC1778
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4G67836.D
Project: BMSMC, Building 5 Area, PR

2)	Tetrachloro-	0.938	0.839	0.878	0.882	0.874	0.911	0.871	0.851	0.881	3.58
3)	alpha-BHC	1.239	1.156	1.205	1.261	1.307	1.406	1.375	1.349	1.287	6.75
4)	gamma-BHC	1.114	1.064	1.098	1.127	1.168	1.253	1.127	1.203	1.144	5.33
5)	Heptachlor	1.156	1.125	1.139	1.156	1.175	1.251	1.217	1.210	1.179	3.67
6)	beta-BHC	0.529	0.506	0.510	0.508	0.514	0.531	0.532	0.516	0.518	2.12
7)	delta-BHC	1.054	0.990	1.028	1.067	1.105	1.201	0.997	1.100	1.068	6.42
8)	Aldrin	1.213	1.077	1.089	1.113	1.135	1.208	1.287	1.166	1.161	6.17
9)	Heptachlor E	1.092	0.992	1.009	1.012	1.022	1.072	1.151	1.039	1.049	5.06
10)	gamma-Chlord	1.019	0.969	0.988	0.999	1.020	1.082	0.985	1.044	1.013	3.60
11)	alpha-Chlord	1.109	0.964	0.983	0.978	0.984	1.040	1.111	0.972	1.018	6.05
12)	Endosulfan I	1.029	0.936	0.948	0.947	0.961	1.011	0.963	0.978	0.972	3.37
13)	4,4'-DDE	1.001	0.964	0.989	1.003	1.028	1.092	0.991	1.052	1.015	4.00
14)	Dieldrin	0.962	0.946	0.977	1.008	1.037	1.105	1.008	1.064	1.013	5.27
15)	Endrin	0.868	0.859	0.890	0.893	0.918	0.978	0.881	0.940	0.903	4.42
16)	4,4'-DDD	0.831	0.768	0.787	0.808	0.831	0.886	0.797	0.852	0.820	4.64
17)	Endosulfan I	0.893	0.848	0.879	0.880	0.898	0.944	0.890	0.911	0.893	3.09
18)	4,4'-DDT	0.628	0.638	0.680	0.713	0.749	0.825	0.720	0.782	0.717	9.51
19)	Endrin Aldeh	0.672	0.654	0.664	0.671	0.673	0.705	0.724	0.665	0.678	3.46
20)	Endosulfan S	0.773	0.737	0.730	0.728	0.732	0.761	0.778	0.739	0.747	2.71
21)	Methoxychlor	0.413	0.381	0.383	0.378	0.379	0.403	0.389	0.390	0.390	3.21
22)	Mirex	0.661	0.603	0.624	0.598	0.598	0.609	0.723	0.599	0.627	7.09
23)	Endrin Keton	0.801	0.766	0.792	0.806	0.830	0.870	0.850	0.848	0.820	4.27
24)	Decachlorobi	0.672	0.614	0.626	0.613	0.603	0.604	0.661	0.602	0.625	4.39

25) I 1-bromo-2-nitrobenzen ----------ISTD----------

26)	Toxaphene{A}	0.018	0.018	0.00
27)	Toxaphene{B}	0.021	0.021	0.00
28)	Toxaphene{C}	0.036	0.036	0.00
29)	Toxaphene{D}	0.021	0.021	0.00
30)	Toxaphene{E}	0.017	0.017	0.00

31) I 1-bromo-2-nitrobenzen ----------ISTD----------

32)	Chlordane {A	0.037	0.037	0.00
33)	Chlordane {B	0.035	0.035	0.00
34)	Chlordane {C	0.128	0.128	0.00
35)	Chlordane {D	0.208	0.208	0.00
36)	Chlordane {E	0.033	0.033	0.00

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

4PST1778.M Tue May 03 15:34:49 2016 RPT1

10.9.1

10

Initial Calibration Verification

Job Number: JC20098 **Sample:** G4G1778-ICV1778
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4G67842.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\4G1778\4g67842.D\ECD1A.ch  Vial: 13
Signal #2 : C:\msdchem\1\DATA\4G1778\4g67842.D\ECD2B.ch
Acq On    :  2 May 2016   4:57 pm                    Operator: dharas
Sample    : icv1778-25                               Inst    : GC4G
Misc      : op93464,g4g1778,100,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\4PST1778.M (ChemStation Integrator)
Title        : PEST/PCB
Last Update  : Tue May 03 15:20:09 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	104	0.00	1.77- 1.83
2	SAB	Tetrachloro-m-xylene	0.862	0.804	6.7	97	0.00	2.56- 2.62
3	A	alpha-BHC	1.180	1.032	12.5	93	0.00	3.13- 3.19
4	MA	gamma-BHC	1.032	0.946	8.3	96	0.00	3.47- 3.53
5	MA	Heptachlor	0.968	0.938	3.1	104	0.00	3.79- 3.85
6	B	beta-BHC	0.494	0.477	3.4	102	0.01	3.58- 3.64
7	B	delta-BHC	0.940	0.845	10.1	97	0.00	4.03- 4.09
8	MB	Aldrin	0.988	0.890	9.9	95	0.00	4.41- 4.47
9	B	Heptachlor Epoxide	0.883	0.810	8.3	98	0.00	5.18- 5.24
10	B	gamma-Chlordane	0.883	0.836	5.3	99	0.00	5.36- 5.42
11	B	alpha-Chlordane	0.952	0.832	12.6	96	0.00	5.54- 5.60
12	A	Endosulfan I	0.979	0.873	10.8	96	0.00	5.72- 5.78
13	B	4,4'-DDE	0.882	0.722	18.1	92	0.00	5.67- 5.73
14	MA	Dieldrin	0.928	0.857	7.7	96	0.00	6.06- 6.12
15	MA	Endrin	0.883	0.810	8.3	99	0.00	6.40- 6.46
16	A	4,4'-DDD	0.748	0.667	10.8	95	0.01	6.55- 6.61
17	B	Endosulfan II	0.850	0.781	8.1	95	0.00	6.74- 6.80
		----------	True	Calc.	% Drift		----------	
18	MA	4,4'-DDT	25.000	21.374	14.5	91	0.00	6.97- 7.03
		----------	AvgRF	CCRF	% Dev		----------	
19	B	Endrin Aldehyde	0.718	0.719	-0.1	106	0.00	7.38- 7.44
20	B	Endosulfan Sulfate	0.779	0.707	9.2	96	0.00	8.07- 8.13
21	A	Methoxychlor	0.333	0.298	10.5	92	0.00	7.79- 7.85
23	B	Endrin Ketone	0.901	0.832	7.7	95	0.00	8.54- 8.60
24	SA	Decachlorobiphenyl	0.812	0.720	11.3	93	0.00	10.22-10.28

***** Signal #2 *****

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	105	0.00	2.04- 2.10
2	SAB	Tetrachloro-m-xylene	0.881	0.786	10.8	94	0.00	3.08- 3.14
3	A	alpha-BHC	1.287	1.115	13.4	93	0.00	3.84- 3.90
4	MA	gamma-BHC	1.144	1.014	11.4	95	0.00	4.32- 4.38
5	MA	Heptachlor	1.179	1.029	12.7	94	0.00	4.95- 5.01
6	B	beta-BHC	0.518	0.465	10.2	96	0.00	4.42- 4.48
7	B	delta-BHC	1.068	0.975	8.7	96	0.00	4.85- 4.91
8	MB	Aldrin	1.161	0.986	15.1	93	0.00	5.44- 5.50
9	B	Heptachlor Epoxide	1.049	0.921	12.2	96	0.00	6.30- 6.36
10	B	gamma-Chlordane	1.013	0.919	9.3	97	0.00	6.60- 6.66

Initial Calibration Verification

Job Number: JC20098 **Sample:** G4G1778-ICV1778
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4G67842.D
Project: BMSMC, Building 5 Area, PR

11	B	alpha-Chlordane	1.018	0.869	14.6	94	0.00	6.83- 6.89
12	A	Endosulfan I	0.972	0.843	13.3	94	0.00	6.94- 7.00
13	B	4,4'-DDE	1.015	0.921	9.3	97	0.00	7.09- 7.15
14	MA	Dieldrin	1.013	0.921	9.1	96	0.00	7.38- 7.44
15	MA	Endrin	0.903	0.837	7.3	99	0.00	7.91- 7.97
16	A	4,4'-DDD	0.820	0.752	8.3	98	0.00	8.07- 8.13
17	B	Endosulfan II	0.893	0.804	10.0	96	0.00	8.26- 8.32
18	MA	4,4'-DDT	0.717	0.632	11.9	93	0.00	8.61- 8.67
19	B	Endrin Aldehyde	0.678	0.620	8.6	97	0.00	8.84- 8.90
20	B	Endosulfan Sulfate	0.747	0.658	11.9	95	0.00	9.32- 9.38
21	A	Methoxychlor	0.390	0.340	12.8	95	0.00	9.82- 9.88
23	B	Endrin Ketone	0.820	0.720	12.2	94	0.00	10.17-10.23
24	SA	Decachlorobiphenyl	0.625	0.593	5.1	102	0.00	11.63-11.69

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4g67836.D 4PST1778.M Tue May 03 15:57:39 2016 RPT1

10.9.2

10

Initial Calibration Verification

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: G4G1778-ICV1778
Lab FileID: 4G67843.D

```
                    Evaluate Continuing Calibration Report

 Signal #1 : C:\msdchem\1\DATA\4G1778\4g67843.D\ECD1A.ch  Vial: 14
 Signal #2 : C:\msdchem\1\DATA\4G1778\4g67843.D\ECD2B.ch
 Acq On    :  2 May 2016   5:12 pm                    Operator: dharas
 Sample    : icv1778-25                               Inst    : GC4G
 Misc      : op93464,g4g1778,100,,,10,1               Multiplr: 1.00
 IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

 Method       : C:\MSDCHEM\1\METHODS\4PST1778.M (ChemStation Integrator)
 Title        : PEST/PCB
 Last Update  : Tue May 03 15:20:09 2016
 Response via : Multiple Level Calibration

 Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
 Max. RRF Dev :  20%     Max. Rel. Area : 200%

        Compound                AvgRF   CCRF      %Dev Area% Dev(min)RT Window
 ---------------------------------------------------------------------------
 1 I   1-bromo-2-nitrobenzene   1.000   1.000      0.0  110   0.00    1.77- 1.83
22     Mirex                    0.777   0.802     -3.2  115   0.00    7.97- 8.03

*****  Signal #2   *****

 1 I   1-bromo-2-nitrobenzene   1.000   1.000      0.0  111   0.00    2.05- 2.11
22     Mirex                    0.627   0.642     -2.4  119   0.00   10.13-10.19

---------------------------------------------------------------------------
---------------------------------------------------------------------------

   (#) = Out of Range              SPCC's out = 0  CCC's out = 0
    4g67836.D  4PST1778.M       Tue May 03 15:57:41 2016   RPT1
```

Initial Calibration Verification

Job Number: JC20098 **Sample:** G4G1778-ICV1778
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4G67844.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\4G1778\4g67844.D\ECD1A.ch  Vial: 15
Signal #2 : C:\msdchem\1\DATA\4G1778\4g67844.D\ECD2B.ch
Acq On    :  2 May 2016   5:27 pm                    Operator: dharas
Sample    : icv1778-500                              Inst    : GC4G
Misc      : op93464,g4g1778,100,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\4PST1778.M (ChemStation Integrator)
Title        : PEST/PCB
Last Update  : Tue May 03 15:20:09 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
31 I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	104	0.00	1.70- 1.90
32	Chlordane {A}	0.028	0.033	-17.9	121	0.00	3.86- 4.06
33	Chlordane {B}	0.036	0.036	0.0	103	0.00	4.49- 4.69
34	Chlordane {C}	0.122	0.118	3.3	100	0.00	5.29- 5.49
35	Chlordane {D}	0.199	0.195	2.0	102	0.00	5.46- 5.66
36	Chlordane {E}	0.030	0.025	16.7	87	0.00	6.58- 6.78

***** Signal #2 *****

31 I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	103	0.00	1.98- 2.18
32	Chlordane {A}	0.037	0.040	-8.1	112	0.00	4.67- 4.87
33	Chlordane {B}	0.035	0.035	0.0	104	0.00	5.57- 5.77
34	Chlordane {C}	0.128	0.122	4.7	99	0.00	6.53- 6.73
35	Chlordane {D}	0.208	0.201	3.4	100	0.00	6.76- 6.96
36	Chlordane {E}	0.033	0.032	3.0	99	0.00	8.27- 8.47

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4g67837.D 4PST1778.M Tue May 03 15:57:54 2016 RPT1

Initial Calibration Verification

Job Number: JC20098 **Sample:** G4G1778-ICV1778
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4G67845.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\4G1778\4g67845.D\ECD1A.ch  Vial: 16
Signal #2 : C:\msdchem\1\DATA\4G1778\4g67845.D\ECD2B.ch
Acq On    :  2 May 2016   5:43 pm                    Operator: dharas
Sample    : icv1778-500                              Inst    : GC4G
Misc      : op93464,g4g1778,100,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\4PST1778.M (ChemStation Integrator)
Title        : PEST/PCB
Last Update  : Tue May 03 15:20:09 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	100	0.00	1.70- 1.90
26	L8	Toxaphene{A}	0.032	0.031	3.1	95	0.00	6.38- 6.58
27	L8	Toxaphene{B}	0.033	0.032	3.0	98	0.00	6.66- 6.86
28	L8	Toxaphene{C}	0.045	0.044	2.2	99	0.00	6.82- 7.02
29	L8	Toxaphene{D}	0.030	0.030	0.0	100	0.00	7.20- 7.40
30	L8	Toxaphene{E}	0.020	0.020	0.0	100	0.00	7.87- 8.07

***** Signal #2 *****

25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	101	0.00	1.98- 2.18
26	L8	Toxaphene{A}	0.018	0.018	0.0	105	0.00	7.27- 7.47
27	L8	Toxaphene{B}	0.021	0.023	-9.5	109	0.00	8.16- 8.36
28	L8	Toxaphene{C}	0.036	0.036	0.0	103	0.00	8.33- 8.53
29	L8	Toxaphene{D}	0.021	0.022	-4.8	106	0.00	8.77- 8.97
30	L8	Toxaphene{E}	0.017	0.017	0.0	103	0.00	9.67- 9.87

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4g67837.D 4PST1778.M Tue May 03 15:57:56 2016 RPT1

10.9.5 10

Continuing Calibration Summary

Job Number: JC20098 **Sample:** G4G1787-CC1778
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4G68206.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\4G1787\4g68206.D\ECD1A.ch  Vial: 4
Signal #2 : C:\msdchem\1\DATA\4G1787\4g68206.D\ECD2B.ch
Acq On    : 12 May 2016  10:24 pm                    Operator: dharas
Sample    : cc1778-50                                Inst    : GC4G
Misc      : op93765,g4g1787,100,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\4PST1778.M (ChemStation Integrator)
Title        : PEST/PCB
Last Update  : Fri May 13 11:39:02 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	109	0.00	1.80- 1.86
2	SAB	Tetrachloro-m-xylene	0.862	0.858	0.5	109	0.00	2.57- 2.63
3	A	alpha-BHC	1.180	1.211	-2.6	107	0.00	3.13- 3.19
4	MA	gamma-BHC	1.032	1.065	-3.2	107	0.00	3.47- 3.53
5	MA	Heptachlor	0.968	1.047	-8.2	108	0.00	3.80- 3.86
6	B	beta-BHC	0.494	0.528	-6.9	110	0.00	3.58- 3.64
7	B	delta-BHC	0.940	0.997	-6.1	110	0.00	4.03- 4.09
8	MB	Aldrin	0.988	1.044	-5.7	110	0.00	4.40- 4.46
9	B	Heptachlor Epoxide	0.883	0.970	-9.9	113	0.00	5.16- 5.22
10	B	gamma-Chlordane	0.883	0.987	-11.8	114	0.00	5.34- 5.40
11	B	alpha-Chlordane	0.952	0.979	-2.8	112	0.00	5.52- 5.58
12	A	Endosulfan I	0.979	1.117	-14.1	123	0.00	5.71- 5.77
13	B	4,4'-DDE	0.882	0.799	9.4	98	-0.01	5.66- 5.72
14	MA	Dieldrin	0.928	1.033	-11.3	112	-0.01	6.04- 6.10
15	MA	Endrin	0.883	0.814	7.8	96	-0.01	6.38- 6.44
16	A	4,4'-DDD	0.748	0.771	-3.1	106	-0.02	6.54- 6.60
17	B	Endosulfan II	0.850	0.971	-14.2	116	-0.01	6.72- 6.78
		----------	True	Calc.	% Drift	----------		
18	MA	4,4'-DDT	50.000	47.161	5.7	102	-0.01	6.96- 7.02
		----------	AvgRF	CCRF	% Dev	----------		
19	B	Endrin Aldehyde	0.718	0.846	-17.8	122	-0.01	7.36- 7.42
20	B	Endosulfan Sulfate	0.779	0.828	-6.3	111	-0.02	8.05- 8.11
21	A	Methoxychlor	0.333	0.329	1.2	97	-0.02	7.77- 7.83
22		Mirex	0.777	0.799	-2.8	111	0.00	7.95- 8.01
23	B	Endrin Ketone	0.901	1.034	-14.8	116	-0.02	8.51- 8.57
24	SA	Decachlorobiphenyl	0.812	0.857	-5.5	117	0.00	10.20-10.26
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	104	0.00	1.73- 1.93
26	L8	Toxaphene{A}		----------NA----------				
27	L8	Toxaphene{B}		----------NA----------				
28	L8	Toxaphene{C}		----------NA----------				
29	L8	Toxaphene{D}		----------NA----------				
30	L8	Toxaphene{E}		----------NA----------				
31	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	108	0.00	1.73- 1.93
32		Chlordane {A}		----------NA----------				
33		Chlordane {B}		----------NA----------				
34		Chlordane {C}		----------NA----------				
35		Chlordane {D}		----------NA----------				

10.9.6 10

Continuing Calibration Summary

Job Number: JC20098 **Sample:** G4G1787-CC1778
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4G68206.D
Project: BMSMC, Building 5 Area, PR

36		Chlordane {E}			----------NA----------				
*****		Signal #2 *****							
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	104	0.00	2.06- 2.12	
2	SAB	Tetrachloro-m-xylene	0.881	0.875	0.7	104	0.00	3.08- 3.14	
3	A	alpha-BHC	1.287	1.314	-2.1	104	0.00	3.84- 3.90	
4	MA	gamma-BHC	1.144	1.190	-4.0	106	0.00	4.31- 4.37	
5	MA	Heptachlor	1.179	1.178	0.1	104	0.00	4.94- 5.00	
6	B	beta-BHC	0.518	0.531	-2.5	107	0.00	4.41- 4.47	
7	B	delta-BHC	1.068	1.134	-6.2	107	0.00	4.84- 4.90	
8	MB	Aldrin	1.161	1.166	-0.4	107	0.00	5.42- 5.48	
9	B	Heptachlor Epoxide	1.049	1.054	-0.5	107	0.00	6.28- 6.34	
10	B	gamma-Chlordane	1.013	1.062	-4.8	108	0.00	6.58- 6.64	
11	B	alpha-Chlordane	1.018	1.021	-0.3	108	0.00	6.81- 6.87	
12	A	Endosulfan I	0.972	0.994	-2.3	107	0.00	6.91- 6.97	
13	B	4,4'-DDE	1.015	1.064	-4.8	107	-0.01	7.07- 7.13	
14	MA	Dieldrin	1.013	1.078	-6.4	108	0.00	7.36- 7.42	
15	MA	Endrin	0.903	0.829	8.2	94	-0.01	7.88- 7.94	
16	A	4,4'-DDD	0.820	0.859	-4.8	107	-0.01	8.04- 8.10	
17	B	Endosulfan II	0.893	0.932	-4.4	108	-0.01	8.24- 8.30	
18	MA	4,4'-DDT	0.717	0.739	-3.1	102	-0.01	8.58- 8.64	
19	B	Endrin Aldehyde	0.678	0.763	-12.5	118	-0.01	8.81- 8.87	
20	B	Endosulfan Sulfate	0.747	0.772	-3.3	110	-0.01	9.29- 9.35	
21	A	Methoxychlor	0.390	0.364	6.7	100	-0.01	9.79- 9.85	
22		Mirex	0.627	0.629	-0.3	109	0.00	10.11-10.17	
23	B	Endrin Ketone	0.820	0.913	-11.3	114	-0.01	10.15-10.21	
24	SA	Decachlorobiphenyl	0.625	0.616	1.4	106	0.00	11.60-11.66	
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	100	0.00	1.99- 2.19	
26	L8	Toxaphene{A}			----------NA----------				
27	L8	Toxaphene{B}			----------NA----------				
28	L8	Toxaphene{C}			----------NA----------				
29	L8	Toxaphene{D}			----------NA----------				
30	L8	Toxaphene{E}			----------NA----------				
31	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	104	0.00	1.99- 2.19	
32		Chlordane {A}			----------NA----------				
33		Chlordane {B}			----------NA----------				
34		Chlordane {C}			----------NA----------				
35		Chlordane {D}			----------NA----------				
36		Chlordane {E}			----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4g67837.D 4PST1778.M Fri May 13 12:03:44 2016 RPT1

10.9.6 10

Initial Calibration Summary

Job Number: JC20098 **Sample:** G6G987-ICC987
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 6G34134.D
Project: BMSMC, Building 5 Area, PR

Response Factor Report HP G1530A

Method : C:\MSDCHEM\1\METHODS\6PST987.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon Apr 18 11:27:24 2016
Response via : Initial Calibration

Calibration Files
2 =6g34131.D 5 =6g34132.D 10 =6g34133.D 25 =6g34134.D
50 =6g34135.D 100 =6g34137.D 1 =6g34130.D 75 =6g34136.D

Compound	2	5	10	25	50	100	1	75	Avg	%RSD
1) I 1-bromo-2-nitrobenzen	ISTD									
2) Tetrachloro-	0.920	0.893	0.885	0.883	0.900	0.945	0.988	0.918	0.916	3.88
3) alpha-BHC	1.041	1.037	1.096	1.173	1.280	1.407	1.071	1.346	1.181	12.28
4) gamma-BHC	1.002	0.996	1.038	1.090	1.166	1.262	1.029	1.217	1.100	9.33
5) Heptachlor	1.052	1.032	1.055	1.077	1.131	1.203	1.115	1.169	1.104	5.51
6) beta-BHC	0.555	0.546	0.532	0.528	0.532	0.540	0.550	0.535	0.540	1.79
7) delta-BHC	0.896	0.903	0.936	1.033	1.124	1.196	0.966	1.148	1.025	11.50
8) Aldrin	0.952	0.928	0.961	0.994	1.057	1.137	1.025	1.103	1.020	7.35
9) Heptachlor E	0.922	0.908	0.919	0.932	0.970	1.018	0.971	0.997	0.955	4.20
10) gamma-Chlord	0.914	0.896	0.917	0.938	0.983	1.040	0.985	1.015	0.961	5.43
11) alpha-Chlord	0.920	0.898	0.915	0.931	0.965	1.015	0.991	0.993	0.954	4.55
12) Endosulfan I	0.926	0.877	0.890	0.913	0.948	1.002	0.991	0.984	0.941	5.04
13) 4,4'-DDE	0.732	0.713	0.722	0.765	0.825	0.896	0.803	0.865	0.790	8.66
14) Dieldrin	0.889	0.851	0.868	0.905	0.956	1.024	0.957	0.998	0.931	6.71
15) Endrin	0.811	0.786	0.801	0.823	0.865	0.916	0.855	0.897	0.844	5.52
16) 4,4'-DDD	0.631	0.601	0.607	0.633	0.698	0.743	0.712	0.720	0.668	8.39
17) Endosulfan I	0.801	0.777	0.772	0.794	0.852	0.892	0.907	0.870	0.833	6.42
18) 4,4'-DDT	0.668	0.653	0.659	0.706	0.746	0.825	0.778	0.779	0.727	8.90
19) Endrin Aldeh	0.645	0.641	0.650	0.655	0.673	0.724	0.753	0.690	0.679	6.00
20) Endosulfan S	0.718	0.683	0.687	0.703	0.726	0.763	0.827	0.747	0.732	6.48
21) Methoxychlor	0.412	0.397	0.403	0.433	0.436	0.441	0.521	0.440	0.436	8.90
22) Mirex	0.766	0.748	0.732	0.730	0.719	0.716	0.838	0.719	0.746	5.48
23) Endrin Keton	0.823	0.800	0.805	0.855	0.892	0.929	0.943	0.913	0.870	6.53
24) Decachlorobi	0.831	0.802	0.796	0.774	0.761	0.757	0.894	0.759	0.797	5.90
25) I 1-bromo-2-nitrobenzen	ISTD									
26) Toxaphene{A}					0.014				0.014	0.00
27) Toxaphene{B}					0.029				0.029	0.00
28) Toxaphene{C}					0.043				0.043	0.00
29) Toxaphene{D}					0.024				0.024	0.00
30) Toxaphene{E}					0.027				0.027	0.00
31) I 1-bromo-2-nitrobenzen	ISTD									
32) Chlordane {A					0.031				0.031	0.00
33) Chlordane {B					0.041				0.041	0.00
34) Chlordane {C					0.131				0.131	0.00
35) Chlordane {D					0.206				0.206	0.00
36) Chlordane {E					0.032				0.032	0.00

Signal #2

1) I 1-bromo-2-nitrobenzen	ISTD									
2) Tetrachloro-	0.962	0.918	0.884	0.869	0.864	0.884	0.972	0.874	0.903	4.72
3) alpha-BHC	1.139	1.104	1.107	1.136	1.192	1.282	1.217	1.238	1.177	5.54
4) gamma-BHC	1.107	1.056	1.044	1.060	1.100	1.161	1.155	1.132	1.102	4.12

Initial Calibration Summary

Job Number: JC20098 **Sample:** G6G987-ICC987
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 6G34134.D
Project: BMSMC, Building 5 Area, PR

5)	Heptachlor	1.142	1.066	1.070	1.043	1.075	1.103	1.323	1.088	1.114	8.03
6)	beta-BHC	0.543	0.541	0.528	0.509	0.526	0.522	0.606	0.521	0.537	5.56
7)	delta-BHC	1.023	0.939	0.958	0.987	1.031	1.094	1.114	1.069	1.027	6.16
8)	Aldrin	1.041	1.030	0.993	0.982	0.993	1.035	1.198	1.013	1.036	6.67
9)	Heptachlor E	1.044	0.951	0.948	0.930	0.925	0.945	1.047	0.931	0.965	5.20
10)	gamma-Chlord	1.015	0.931	0.917	0.894	0.901	0.924	1.056	0.910	0.944	6.26
11)	alpha-Chlord	0.972	0.946	0.913	0.892	0.890	0.904	1.087	0.895	0.937	7.17
12)	Endosulfan I	0.942	0.904	0.893	0.857	0.858	0.871	1.096	0.864	0.911	8.81
13)	4,4'-DDE	0.845	0.758	0.727	0.711	0.812	0.821	0.992	0.802	0.808	10.85
14)	Dieldrin	0.988	0.930	0.891	0.872	0.881	0.910	1.076	0.893	0.930	7.47
15)	Endrin	0.903	0.883	0.801	0.787	0.798	0.819	0.963	0.809	0.845	7.50
16)	4,4'-DDD	0.707	0.720	0.707	0.681	0.703	0.708	0.651	0.704	0.698	3.12
17)	Endosulfan I	0.871	0.816	0.790	0.768	0.803	0.815	0.941	0.809	0.827	6.65
18)	4,4'-DDT	0.651	0.601	0.576	0.597	0.625	0.656	0.717	0.642	0.633	6.98
19)	Endrin Aldeh	0.691	0.653	0.648	0.635	0.643	0.648	0.798	0.646	0.670	8.12
20)	Endosulfan S	0.801	0.702	0.706	0.676	0.679	0.686	0.889	0.681	0.727	10.56
21)	Methoxychlor	0.340	0.357	0.338	0.341	0.351	0.359	0.349	0.356	0.349	2.33
22)	Mirex	0.784	0.734	0.702	0.658	0.640	0.626	0.952	0.634	0.716	15.36
23)	Endrin Keton	0.917	0.840	0.803	0.789	0.803	0.828	1.006	0.816	0.850	8.75
24)	Decachlorobi	0.777	0.577	0.680	0.677	0.666	0.657	0.755	0.645	0.679	9.24

25) I 1-bromo-2-nitrobenzen ----------ISTD----------

26)	Toxaphene{A}	0.015	0.015	0.00
27)	Toxaphene{B}	0.026	0.026	0.00
28)	Toxaphene{C}	0.039	0.039	0.00
29)	Toxaphene{D}	0.026	0.026	0.00
30)	Toxaphene{E}	0.022	0.022	0.00

31) I 1-bromo-2-nitrobenzen ----------ISTD----------

32)	Chlordane {A	0.031	0.031	0.00
33)	Chlordane {B	0.038	0.038	0.00
34)	Chlordane {C	0.113	0.113	0.00
35)	Chlordane {D	0.189	0.189	0.00
36)	Chlordane {E	0.030	0.030	0.00

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

6PST987.M Mon Apr 18 11:29:41 2016

10.9.7

10

Initial Calibration Verification

Job Number: JC20098 **Sample:** G6G987-ICV987
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 6G34140.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\987\6g34140.D\ECD1A.CH     Vial: 13
Signal #2 : C:\msdchem\1\DATA\987\6g34140.D\ECD2B.CH
Acq On    : 14 Apr 2016   6:33 pm                    Operator: dharas
Sample    : icv987-25                                Inst    : HP G1530A
Misc      : op92908,g6g987,6.8,,,10,1                Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\6PST987.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon Apr 18 11:27:24 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	99	0.00	1.28- 1.34
2	SAB	Tetrachloro-m-xylene	0.916	0.874	4.6	98	0.00	1.96- 2.02
3	A	alpha-BHC	1.181	1.114	5.7	94	0.00	2.47- 2.53
4	MA	gamma-BHC	1.100	1.046	4.9	95	0.00	2.79- 2.85
5	MA	Heptachlor	1.104	1.038	6.0	96	0.00	3.31- 3.37
6	B	beta-BHC	0.540	0.507	6.1	95	0.00	2.87- 2.93
7	B	delta-BHC	1.025	1.045	-2.0	101	0.00	3.06- 3.12
8	MB	Aldrin	1.020	0.950	6.9	95	0.00	3.66- 3.73
9	B	Heptachlor Epoxide	0.955	0.899	5.9	96	0.00	4.41- 4.47
10	B	gamma-Chlordane	0.961	0.924	3.9	98	0.00	4.59- 4.65
11	B	alpha-Chlordane	0.954	0.904	5.2	97	0.00	4.77- 4.83
12	A	Endosulfan I	0.941	0.877	6.8	95	0.00	4.95- 5.01
13	B	4,4'-DDE	0.790	0.718	9.1	93	0.00	4.90- 4.96
14	MA	Dieldrin	0.931	0.881	5.4	97	0.00	5.30- 5.36
15	MA	Endrin	0.844	0.820	2.8	99	-0.01	5.64- 5.70
16	A	4,4'-DDD	0.668	0.637	4.6	100	-0.01	5.79- 5.85
17	B	Endosulfan II	0.833	0.789	5.3	99	0.00	5.98- 6.04
18	MA	4,4'-DDT	0.727	0.694	4.5	98	-0.01	6.24- 6.30
19	B	Endrin Aldehyde	0.679	0.694	-2.2	105	-0.01	6.65- 6.71
20	B	Endosulfan Sulfate	0.732	0.724	1.1	102	-0.01	7.39- 7.45
21	A	Methoxychlor	0.436	0.413	5.3	95	-0.01	7.11- 7.17
22		Mirex		----------NA----------				
23	B	Endrin Ketone	0.870	0.850	2.3	99	-0.01	7.87- 7.93
24	SAB	Decachlorobiphenyl	0.797	0.781	2.0	100	-0.01	9.89- 9.95
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	95	0.00	1.28- 1.34
26	L8	Toxaphene{A}		----------NA----------				
27	L8	Toxaphene{B}		----------NA----------				
28	L8	Toxaphene{C}		----------NA----------				
29	L8	Toxaphene{D}		----------NA----------				
30	L8	Toxaphene{E}		----------NA----------				
31	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	95	0.00	1.28- 1.34
32		Chlordane {A}		----------NA----------				
33		Chlordane {B}		----------NA----------				
34		Chlordane {C}		----------NA----------				
35		Chlordane {D}		----------NA----------				
36		Chlordane {E}		----------NA----------				

***** Signal #2 *****

10.9.8 10

Initial Calibration Verification

Job Number: JC20098 **Sample:** G6G987-ICV987
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 6G34140.D
Project: BMSMC, Building 5 Area, PR

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	100	0.00	1.55- 1.61
2	SAB	Tetrachloro-m-xylene	0.903	0.865	4.2	99	0.00	2.45- 2.51
3	A	alpha-BHC	1.177	1.083	8.0	95	0.00	3.15- 3.21
4	MA	gamma-BHC	1.102	1.014	8.0	95	0.00	3.61- 3.67
5	MA	Heptachlor	1.114	1.023	8.2	98	0.00	4.21- 4.27
6	B	beta-BHC	0.537	0.489	8.9	96	0.00	3.70- 3.76
7	B	delta-BHC	1.027	0.987	3.9	100	0.00	4.12- 4.18
8	MB	Aldrin	1.036	0.940	9.3	96	0.00	4.69- 4.75
9	B	Heptachlor Epoxide	0.965	0.896	7.2	96	-0.01	5.57- 5.63
10	B	gamma-Chlordane	0.944	0.878	7.0	98	-0.01	5.88- 5.94
11	B	alpha-Chlordane	0.937	0.862	8.0	96	-0.01	6.12- 6.18
12	A	Endosulfan I	0.911	0.822	9.8	96	-0.01	6.22- 6.28
13	B	4,4'-DDE	0.808	0.777	3.8	109	-0.01	6.42- 6.48
14	MA	Dieldrin	0.930	0.848	8.8	97	-0.01	6.69- 6.75
15	MA	Endrin	0.845	0.771	8.8	98	-0.01	7.23- 7.29
16	A	4,4'-DDD	0.698	0.676	3.2	99	-0.01	7.46- 7.52
17	B	Endosulfan II	0.827	0.783	5.3	102	-0.01	7.62- 7.68
18	MA	4,4'-DDT	0.633	0.574	9.3	96	-0.01	8.04- 8.10
19	B	Endrin Aldehyde	0.670	0.646	3.6	101	-0.01	8.25- 8.31
20	B	Endosulfan Sulfate	0.727	0.678	6.7	100	-0.01	8.76- 8.82
21	A	Methoxychlor	0.349	0.337	3.4	99	-0.02	9.41- 9.47
22		Mirex		----------NA----------				
23	B	Endrin Ketone	0.850	0.785	7.6	99	-0.02	9.81- 9.87
24	SAB	Decachlorobiphenyl	0.679	0.707	-4.1	104	-0.01	11.73-11.79
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	93	0.00	1.55- 1.61
26	L8	Toxaphene{A}		----------NA----------				
27	L8	Toxaphene{B}		----------NA----------				
28	L8	Toxaphene{C}		----------NA----------				
29	L8	Toxaphene{D}		----------NA----------				
30	L8	Toxaphene{E}		----------NA----------				
31	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	93	0.00	1.48- 1.68
32		Chlordane {A}		----------NA----------				
33		Chlordane {B}		----------NA----------				
34		Chlordane {C}		----------NA----------				
35		Chlordane {D}		----------NA----------				
36		Chlordane {E}		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6g34134.D 6PST987.M Mon Apr 18 12:19:50 2016

10.9.8 10

Initial Calibration Verification

Job Number: JC20098 **Sample:** G6G987-ICV987
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 6G34141.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\987\6g34141.D\ECD1A.CH     Vial: 14
Signal #2 : C:\msdchem\1\DATA\987\6g34141.D\ECD2B.CH
Acq On    : 14 Apr 2016   6:49 pm                    Operator: dharas
Sample    : icv987-25                                Inst    : HP G1530A
Misc      : op92908,g6g987,6.8,,,10,1                Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\6PST987.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon Apr 18 11:27:24 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	96	0.00	1.28- 1.34
2	SAB	Tetrachloro-m-xylene		----------NA----------				
3	A	alpha-BHC		----------NA----------				
4	MA	gamma-BHC		----------NA----------				
5	MA	Heptachlor		----------NA----------				
6	B	beta-BHC		----------NA----------				
7	B	delta-BHC		----------NA----------				
8	MB	Aldrin		----------NA----------				
9	B	Heptachlor Epoxide		----------NA----------				
10	B	gamma-Chlordane		----------NA----------				
11	B	alpha-Chlordane		----------NA----------				
12	A	Endosulfan I		----------NA----------				
13	B	4,4'-DDE		----------NA----------				
14	MA	Dieldrin		----------NA----------				
15	MA	Endrin		----------NA----------				
16	A	4,4'-DDD		----------NA----------				
17	B	Endosulfan II		----------NA----------				
18	MA	4,4'-DDT		----------NA----------				
19	B	Endrin Aldehyde		----------NA----------				
20	B	Endosulfan Sulfate		----------NA----------				
21	A	Methoxychlor		----------NA----------				
22		Mirex	0.746	0.778	-4.3	103	0.00	7.24- 7.30
23	B	Endrin Ketone		----------NA----------				
24	SAB	Decachlorobiphenyl		----------NA----------				
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	93	0.00	1.28- 1.34
26	L8	Toxaphene{A}		----------NA----------				
27	L8	Toxaphene{B}		----------NA----------				
28	L8	Toxaphene{C}		----------NA----------				
29	L8	Toxaphene{D}		----------NA----------				
30	L8	Toxaphene{E}		----------NA----------				
31	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	93	0.00	1.28- 1.34
32		Chlordane {A}		----------NA----------				
33		Chlordane {B}		----------NA----------				
34		Chlordane {C}		----------NA----------				
35		Chlordane {D}		----------NA----------				
36		Chlordane {E}		----------NA----------				

***** Signal #2 *****

10.9.9 10

Initial Calibration Verification

Job Number: JC20098 **Sample:** G6G987-ICV987
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 6G34141.D
Project: BMSMC, Building 5 Area, PR

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	98	0.00	1.56- 1.62
2	SAB	Tetrachloro-m-xylene		----------NA----------				
3	A	alpha-BHC		----------NA----------				
4	MA	gamma-BHC		----------NA----------				
5	MA	Heptachlor		----------NA----------				
6	B	beta-BHC		----------NA----------				
7	B	delta-BHC		----------NA----------				
8	MB	Aldrin		----------NA----------				
9	B	Heptachlor Epoxide		----------NA----------				
10	B	gamma-Chlordane		----------NA----------				
11	B	alpha-Chlordane		----------NA----------				
12	A	Endosulfan I		----------NA----------				
13	B	4,4'-DDE		----------NA----------				
14	MA	Dieldrin		----------NA----------				
15	MA	Endrin		----------NA----------				
16	A	4,4'-DDD		----------NA----------				
17	B	Endosulfan II		----------NA----------				
18	MA	4,4'-DDT		----------NA----------				
19	B	Endrin Aldehyde		----------NA----------				
20	B	Endosulfan Sulfate		----------NA----------				
21	A	Methoxychlor		----------NA----------				
22		Mirex	0.716	0.722	-0.8	108	-0.01	9.73- 9.79
23	B	Endrin Ketone		----------NA----------				
24	SAB	Decachlorobiphenyl		----------NA----------				
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	92	0.00	1.56- 1.62
26	L8	Toxaphene{A}		----------NA----------				
27	L8	Toxaphene{B}		----------NA----------				
28	L8	Toxaphene{C}		----------NA----------				
29	L8	Toxaphene{D}		----------NA----------				
30	L8	Toxaphene{E}		----------NA----------				
31	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	92	0.00	1.49- 1.69
32		Chlordane {A}		----------NA----------				
33		Chlordane {B}		----------NA----------				
34		Chlordane {C}		----------NA----------				
35		Chlordane {D}		----------NA----------				
36		Chlordane {E}		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6g34134.D 6PST987.M Mon Apr 18 12:20:19 2016

10.9.9 10

Initial Calibration Verification

Job Number: JC20098 **Sample:** G6G987-ICV987
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 6G34142.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\987\6g34142.D\ECD1A.CH     Vial: 15
Signal #2 : C:\msdchem\1\DATA\987\6g34142.D\ECD2B.CH
Acq On    : 14 Apr 2016   7:06 pm                    Operator: dharas
Sample    : icv987-500                               Inst    : HP G1530A
Misc      : op92908,g6g987,6.8,,,10,1                Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\6PST987.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon Apr 18 11:27:24 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	98	0.00	1.28- 1.34
2	SAB	Tetrachloro-m-xylene	0.916	0.850	7.2	92	0.00	1.96- 2.02
3	A	alpha-BHC		----------NA----------				
4	MA	gamma-BHC		----------NA----------				
5	MA	Heptachlor		----------NA----------				
6	B	beta-BHC		----------NA----------				
7	B	delta-BHC		----------NA----------				
8	MB	Aldrin		----------NA----------				
9	B	Heptachlor Epoxide		----------NA----------				
10	B	gamma-Chlordane		----------NA----------				
11	B	alpha-Chlordane		----------NA----------				
12	A	Endosulfan I		----------NA----------				
13	B	4,4'-DDE		----------NA----------				
14	MA	Dieldrin		----------NA----------				
15	MA	Endrin		----------NA----------				
16	A	4,4'-DDD		----------NA----------				
17	B	Endosulfan II		----------NA----------				
18	MA	4,4'-DDT		----------NA----------				
19	B	Endrin Aldehyde		----------NA----------				
20	B	Endosulfan Sulfate		----------NA----------				
21	A	Methoxychlor		----------NA----------				
22		Mirex		----------NA----------				
23	B	Endrin Ketone		----------NA----------				
24	SAB	Decachlorobiphenyl	0.797	0.776	2.6	99	-0.01	9.90- 9.96
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	96	0.00	1.28- 1.34
26	L8	Toxaphene{A}		----------NA----------				
27	L8	Toxaphene{B}		----------NA----------				
28	L8	Toxaphene{C}		----------NA----------				
29	L8	Toxaphene{D}		----------NA----------				
30	L8	Toxaphene{E}		----------NA----------				
31	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	99	0.00	1.28- 1.34
32		Chlordane {A}	0.031	0.036	-16.1	114	0.00	3.15- 3.35
33		Chlordane {B}	0.041	0.040	2.4	97	0.00	3.75- 3.95
34		Chlordane {C}	0.131	0.129	1.5	96	0.00	4.52- 4.72
35		Chlordane {D}	0.206	0.209	-1.5	100	0.00	4.69- 4.89
36		Chlordane {E}	0.032	0.030	6.3	91	0.00	5.82- 6.02

***** Signal #2 *****

Initial Calibration Verification

Job Number: JC20098 **Sample:** G6G987-ICV987
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 6G34142.D
Project: BMSMC, Building 5 Area, PR

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	100	0.00	1.55- 1.61
2	SAB	Tetrachloro-m-xylene	0.903	0.804	11.0	93	0.00	2.45- 2.51
3	A	alpha-BHC		----------NA----------				
4	MA	gamma-BHC		----------NA----------				
5	MA	Heptachlor		----------NA----------				
6	B	beta-BHC		----------NA----------				
7	B	delta-BHC		----------NA----------				
8	MB	Aldrin		----------NA----------				
9	B	Heptachlor Epoxide		----------NA----------				
10	B	gamma-Chlordane		----------NA----------				
11	B	alpha-Chlordane		----------NA----------				
12	A	Endosulfan I		----------NA----------				
13	B	4,4'-DDE		----------NA----------				
14	MA	Dieldrin		----------NA----------				
15	MA	Endrin		----------NA----------				
16	A	4,4'-DDD		----------NA----------				
17	B	Endosulfan II		----------NA----------				
18	MA	4,4'-DDT		----------NA----------				
19	B	Endrin Aldehyde		----------NA----------				
20	B	Endosulfan Sulfate		----------NA----------				
21	A	Methoxychlor		----------NA----------				
22		Mirex		----------NA----------				
23	B	Endrin Ketone		----------NA----------				
24	SAB	Decachlorobiphenyl	0.679	0.672	1.0	101	-0.01	11.73-11.79
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	98	0.00	1.55- 1.61
26	L8	Toxaphene{A}		----------NA----------				
27	L8	Toxaphene{B}		----------NA----------				
28	L8	Toxaphene{C}		----------NA----------				
29	L8	Toxaphene{D}		----------NA----------				
30	L8	Toxaphene{E}		----------NA----------				
31	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	101	0.00	1.48- 1.68
32		Chlordane {A}	0.031	0.035	-12.9	114	0.00	3.93- 4.13
33		Chlordane {B}	0.038	0.038	0.0	102	0.00	4.83- 5.03
34		Chlordane {C}	0.113	0.110	2.7	98	-0.01	5.81- 6.01
35		Chlordane {D}	0.189	0.188	0.5	100	-0.01	6.05- 6.25
36		Chlordane {E}	0.030	0.027	10.0	91	-0.01	7.63- 7.83

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6g34135.D 6PST987.M Mon Apr 18 12:21:19 2016

Initial Calibration Verification

Job Number: JC20098 **Sample:** G6G987-ICV987
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 6G34143.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\987\6g34143.D\ECD1A.CH     Vial: 16
Signal #2 : C:\msdchem\1\DATA\987\6g34143.D\ECD2B.CH
Acq On    : 14 Apr 2016   7:22 pm                    Operator: dharas
Sample    : icv987-500                               Inst    : HP G1530A
Misc      : op92908,g6g987,6.8,,,10,1                Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\6PST987.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon Apr 18 11:27:24 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	101	0.00	1.28- 1.34
2	SAB	Tetrachloro-m-xylene	0.916	0.801	12.6	90	0.00	1.96- 2.02
3	A	alpha-BHC		----------NA----------				
4	MA	gamma-BHC		----------NA----------				
5	MA	Heptachlor		----------NA----------				
6	B	beta-BHC		----------NA----------				
7	B	delta-BHC		----------NA----------				
8	MB	Aldrin		----------NA----------				
9	B	Heptachlor Epoxide		----------NA----------				
10	B	gamma-Chlordane		----------NA----------				
11	B	alpha-Chlordane		----------NA----------				
12	A	Endosulfan I		----------NA----------				
13	B	4,4'-DDE		----------NA----------				
14	MA	Dieldrin		----------NA----------				
15	MA	Endrin		----------NA----------				
16	A	4,4'-DDD		----------NA----------				
17	B	Endosulfan II		----------NA----------				
18	MA	4,4'-DDT		----------NA----------				
19	B	Endrin Aldehyde		----------NA----------				
20	B	Endosulfan Sulfate		----------NA----------				
21	A	Methoxychlor		----------NA----------				
22		Mirex		----------NA----------				
23	B	Endrin Ketone		----------NA----------				
24	SAB	Decachlorobiphenyl	0.797	0.743	6.8	99	-0.01	9.89- 9.95
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	100	0.00	1.28- 1.34
26	L8	Toxaphene{A}	0.014	0.015	-7.1	108	-0.01	5.24- 5.44
27	L8	Toxaphene{B}	0.029	0.028	3.4	97	0.00	5.63- 5.83
28	L8	Toxaphene{C}	0.043	0.042	2.3	98	-0.01	5.90- 6.10
29	L8	Toxaphene{D}	0.024	0.024	0.0	96	-0.01	6.46- 6.66
30	L8	Toxaphene{E}	0.027	0.025	7.4	92	-0.01	7.16- 7.36
31	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	102	0.00	1.28- 1.34
32		Chlordane {A}		----------NA----------				
33		Chlordane {B}		----------NA----------				
34		Chlordane {C}		----------NA----------				
35		Chlordane {D}		----------NA----------				
36		Chlordane {E}		----------NA----------				

***** Signal #2 *****

Initial Calibration Verification

Job Number: JC20098 **Sample:** G6G987-ICV987
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 6G34143.D
Project: BMSMC, Building 5 Area, PR

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	97	0.00	1.55- 1.61
2	SAB	Tetrachloro-m-xylene	0.903	0.823	8.9	93	0.00	2.45- 2.51
3	A	alpha-BHC		----------NA----------				
4	MA	gamma-BHC		----------NA----------				
5	MA	Heptachlor		----------NA----------				
6	B	beta-BHC		----------NA----------				
7	B	delta-BHC		----------NA----------				
8	MB	Aldrin		----------NA----------				
9	B	Heptachlor Epoxide		----------NA----------				
10	B	gamma-Chlordane		----------NA----------				
11	B	alpha-Chlordane		----------NA----------				
12	A	Endosulfan I		----------NA----------				
13	B	4,4'-DDE		----------NA----------				
14	MA	Dieldrin		----------NA----------				
15	MA	Endrin		----------NA----------				
16	A	4,4'-DDD		----------NA----------				
17	B	Endosulfan II		----------NA----------				
18	MA	4,4'-DDT		----------NA----------				
19	B	Endrin Aldehyde		----------NA----------				
20	B	Endosulfan Sulfate		----------NA----------				
21	A	Methoxychlor		----------NA----------				
22		Mirex		----------NA----------				
23	B	Endrin Ketone		----------NA----------				
24	SAB	Decachlorobiphenyl	0.679	0.680	-0.1	99	-0.01	11.73-11.79
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	95	0.00	1.55- 1.61
26	L8	Toxaphene{A}	0.015	0.013	13.3	85	-0.01	6.59- 6.79
27	L8	Toxaphene{B}	0.026	0.025	3.8	92	-0.01	7.52- 7.72
28	L8	Toxaphene{C}	0.039	0.037	5.1	90	-0.01	7.70- 7.90
29	L8	Toxaphene{D}	0.026	0.025	3.8	92	-0.01	8.18- 8.38
30	L8	Toxaphene{E}	0.022	0.024	-9.1	102	-0.01	9.16- 9.36
31	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	98	0.00	1.48- 1.68
32		Chlordane {A}		----------NA----------				
33		Chlordane {B}		----------NA----------				
34		Chlordane {C}		----------NA----------				
35		Chlordane {D}		----------NA----------				
36		Chlordane {E}		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6g34135.D 6PST987.M Mon Apr 18 12:22:01 2016

10.9.11 10

Continuing Calibration Summary

Job Number: JC20098 **Sample:** G6G1010-CC987
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 6G35034.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\1010\6g35034.D\ECD1A.CH    Vial: 2
Signal #2 : C:\msdchem\1\DATA\1010\6g35034.D\ECD2B.CH
Acq On    : 13 May 2016   9:21 am                    Operator: dharas
Sample    : cc987-25                                 Inst    : HP G1530A
Misc      : op93838,g6g1010,15.8,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\6PST987.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed May 11 16:27:57 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	93	0.00	1.26- 1.32
2	SAB	Tetrachloro-m-xylene	0.916	0.913	0.3	96	0.00	1.94- 2.00
3	A	alpha-BHC	1.181	1.214	-2.8	96	0.00	2.45- 2.51
4	MA	gamma-BHC	1.100	1.121	-1.9	96	0.00	2.77- 2.83
5	MA	Heptachlor	1.104	1.027	7.0	89	0.00	3.29- 3.35
6	B	beta-BHC	0.540	0.556	-3.0	98	0.00	2.85- 2.91
7	B	delta-BHC	1.025	0.953	7.0	86	0.00	3.04- 3.10
8	MB	Aldrin	1.020	0.972	4.7	91	0.00	3.64- 3.71
9	B	Heptachlor Epoxide	0.955	0.885	7.3	88	0.00	4.39- 4.45
10	B	gamma-Chlordane	0.961	0.835	13.1	83	0.00	4.56- 4.62
11	B	alpha-Chlordane	0.954	0.861	9.7	86	0.00	4.74- 4.80
12	A	Endosulfan I	0.941	0.892	5.2	91	0.00	4.92- 4.98
13	B	4,4'-DDE	0.790	0.732	7.3	89	0.00	4.87- 4.93
14	MA	Dieldrin	0.931	0.883	5.2	91	0.00	5.27- 5.33
15	MA	Endrin	0.844	0.816	3.3	92	0.00	5.61- 5.67
16	A	4,4'-DDD	0.668	0.627	6.1	92	0.00	5.76- 5.82
17	B	Endosulfan II	0.833	0.794	4.7	93	0.00	5.95- 6.01
18	MA	4,4'-DDT	0.727	0.632	13.1	83	0.00	6.21- 6.27
19	B	Endrin Aldehyde	0.679	0.649	4.4	92	0.00	6.62- 6.68
20	B	Endosulfan Sulfate	0.732	0.729	0.4	96	0.00	7.35- 7.41
21	A	Methoxychlor	0.436	0.386	11.5	83	0.00	7.08- 7.14
22		Mirex	0.746	0.720	3.5	92	0.00	7.20- 7.26
23	B	Endrin Ketone	0.870	0.861	1.0	94	0.00	7.83- 7.89
24	SAB	Decachlorobiphenyl	0.797	0.748	6.1	90	0.00	9.86- 9.92
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	89	0.00	1.26- 1.32
26	L8	Toxaphene{A}		----------NA----------				
27	L8	Toxaphene{B}		----------NA----------				
28	L8	Toxaphene{C}		----------NA----------				
29	L8	Toxaphene{D}		----------NA----------				
30	L8	Toxaphene{E}		----------NA----------				
31	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	89	0.00	1.26- 1.32
32		Chlordane {A}		----------NA----------				
33		Chlordane {B}		----------NA----------				
34		Chlordane {C}		----------NA----------				
35		Chlordane {D}		----------NA----------				
36		Chlordane {E}		----------NA----------				

***** Signal #2 *****

10.9.12 10

Continuing Calibration Summary

Job Number: JC20098 **Sample:** G6G1010-CC987
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 6G35034.D
Project: BMSMC, Building 5 Area, PR

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	105	0.00	1.54- 1.60
2	SAB	Tetrachloro-m-xylene	0.903	0.899	0.4	109	0.00	2.43- 2.49
3	A	alpha-BHC	1.177	1.199	-1.9	111	0.00	3.13- 3.19
4	MA	gamma-BHC	1.102	1.101	0.1	109	0.00	3.58- 3.64
5	MA	Heptachlor	1.114	1.058	5.0	107	0.00	4.18- 4.24
6	B	beta-BHC	0.537	0.502	6.5	104	0.00	3.67- 3.73
7	B	delta-BHC	1.027	1.016	1.1	108	0.00	4.09- 4.15
8	MB	Aldrin	1.036	0.997	3.8	107	0.00	4.66- 4.72
9	B	Heptachlor Epoxide	0.965	0.910	5.7	103	0.00	5.54- 5.60
10	B	gamma-Chlordane	0.944	0.905	4.1	107	0.00	5.84- 5.90
11	B	alpha-Chlordane	0.937	0.903	3.6	107	0.00	6.08- 6.14
12	A	Endosulfan I	0.911	0.861	5.5	106	0.00	6.18- 6.24
13	B	4,4'-DDE	0.808	0.776	4.0	115	0.00	6.38- 6.44
14	MA	Dieldrin	0.930	0.890	4.3	107	0.00	6.65- 6.71
15	MA	Endrin	0.845	0.816	3.4	109	0.00	7.19- 7.25
16	A	4,4'-DDD	0.698	0.686	1.7	106	0.00	7.42- 7.48
17	B	Endosulfan II	0.827	0.779	5.8	107	0.00	7.58- 7.64
18	MA	4,4'-DDT	0.633	0.593	6.3	105	0.00	7.99- 8.05
19	B	Endrin Aldehyde	0.670	0.641	4.3	106	0.00	8.20- 8.26
20	B	Endosulfan Sulfate	0.727	0.718	1.2	112	0.00	8.72- 8.78
21	A	Methoxychlor	0.349	0.330	5.4	102	0.00	9.37- 9.43
22		Mirex	0.716	0.684	4.5	109	0.00	9.68- 9.74
23	B	Endrin Ketone	0.850	0.835	1.8	111	0.00	9.76- 9.82
24	SAB	Decachlorobiphenyl	0.679	0.729	-7.4	113	0.00	11.71-11.77
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	99	0.00	1.54- 1.60
26	L8	Toxaphene{A}		----------NA----------				
27	L8	Toxaphene{B}		----------NA----------				
28	L8	Toxaphene{C}		----------NA----------				
29	L8	Toxaphene{D}		----------NA----------				
30	L8	Toxaphene{E}		----------NA----------				
31	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	99	0.00	1.47- 1.67
32		Chlordane {A}		----------NA----------				
33		Chlordane {B}		----------NA----------				
34		Chlordane {C}		----------NA----------				
35		Chlordane {D}		----------NA----------				
36		Chlordane {E}		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6g34134.D 6PST987.M Fri May 13 11:10:38 2016

10.9.12 10

Continuing Calibration Summary

Job Number: JC20098 **Sample:** G6G1010-CC987
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 6G35055.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\1010\6g35055.D\ECD1A.CH    Vial: 4
Signal #2 : C:\msdchem\1\DATA\1010\6g35055.D\ECD2B.CH
Acq On    : 13 May 2016   5:21 pm                    Operator: thomasl
Sample    : cc987-50                                 Inst    : HP G1530A
Misc      : op93857,g6g1010,9.2,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\6PST987.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon May 16 10:05:37 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	104	0.00	1.26- 1.32
2	SAB	Tetrachloro-m-xylene	0.916	0.894	2.4	103	0.00	1.94- 2.00
3	A	alpha-BHC	1.181	1.268	-7.4	103	0.00	2.45- 2.51
4	MA	gamma-BHC	1.100	1.152	-4.7	102	0.00	2.76- 2.82
5	MA	Heptachlor	1.104	1.096	0.7	101	0.00	3.29- 3.35
6	B	beta-BHC	0.540	0.513	5.0	100	0.00	2.85- 2.91
7	B	delta-BHC	1.025	1.074	-4.8	99	0.00	3.04- 3.10
8	MB	Aldrin	1.020	1.036	-1.6	102	0.00	3.64- 3.71
9	B	Heptachlor Epoxide	0.955	0.967	-1.3	103	0.00	4.39- 4.45
10	B	gamma-Chlordane	0.961	0.902	6.1	95	0.00	4.56- 4.62
11	B	alpha-Chlordane	0.954	0.893	6.4	96	0.00	4.74- 4.80
12	A	Endosulfan I	0.941	0.947	-0.6	104	0.00	4.92- 4.98
13	B	4,4'-DDE	0.790	0.737	6.7	93	0.00	4.87- 4.93
14	MA	Dieldrin	0.931	0.930	0.1	101	0.00	5.27- 5.33
15	MA	Endrin	0.844	0.863	-2.3	103	0.00	5.61- 5.67
16	A	4,4'-DDD	0.668	0.670	-0.3	100	0.00	5.76- 5.82
17	B	Endosulfan II	0.833	0.830	0.4	101	0.00	5.95- 6.01
18	MA	4,4'-DDT	0.727	0.690	5.1	96	0.00	6.21- 6.27
19	B	Endrin Aldehyde	0.679	0.672	1.0	103	0.00	6.62- 6.68
20	B	Endosulfan Sulfate	0.732	0.763	-4.2	109	0.00	7.35- 7.41
21	A	Methoxychlor	0.436	0.397	8.9	94	0.00	7.08- 7.14
22		Mirex	0.746	0.714	4.3	103	0.00	7.20- 7.26
23	B	Endrin Ketone	0.870	0.834	4.1	97	0.00	7.83- 7.89
24	SAB	Decachlorobiphenyl	0.797	0.733	8.0	100	0.00	9.86- 9.92
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	102	0.00	1.26- 1.32
26	L8	Toxaphene{A}		----------NA----------				
27	L8	Toxaphene{B}		----------NA----------				
28	L8	Toxaphene{C}		----------NA----------				
29	L8	Toxaphene{D}		----------NA----------				
30	L8	Toxaphene{E}		----------NA----------				
31	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	105	0.00	1.26- 1.32
32		Chlordane {A}		----------NA----------				
33		Chlordane {B}		----------NA----------				
34		Chlordane {C}		----------NA----------				
35		Chlordane {D}		----------NA----------				
36		Chlordane {E}		----------NA----------				

***** Signal #2 *****

10.9.13 10

Continuing Calibration Summary

Job Number: JC20098 **Sample:** G6G1010-CC987
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 6G35055.D
Project: BMSMC, Building 5 Area, PR

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	111	0.00	1.53- 1.59
2	SAB	Tetrachloro-m-xylene	0.903	0.847	6.2	109	0.00	2.43- 2.49
3	A	alpha-BHC	1.177	1.191	-1.2	111	0.00	3.13- 3.19
4	MA	gamma-BHC	1.102	1.088	1.3	110	0.00	3.58- 3.64
5	MA	Heptachlor	1.114	1.059	4.9	110	0.00	4.18- 4.24
6	B	beta-BHC	0.537	0.489	8.9	103	0.00	3.67- 3.73
7	B	delta-BHC	1.027	0.988	3.8	107	0.00	4.09- 4.15
8	MB	Aldrin	1.036	0.981	5.3	110	0.00	4.66- 4.72
9	B	Heptachlor Epoxide	0.965	0.902	6.5	108	0.00	5.53- 5.59
10	B	gamma-Chlordane	0.944	0.875	7.3	108	0.00	5.84- 5.90
11	B	alpha-Chlordane	0.937	0.866	7.6	108	0.00	6.08- 6.14
12	A	Endosulfan I	0.911	0.840	7.8	109	0.00	6.18- 6.24
13	B	4,4'-DDE	0.808	0.704	12.9	96	0.00	6.38- 6.44
14	MA	Dieldrin	0.930	0.872	6.2	110	0.00	6.65- 6.71
15	MA	Endrin	0.845	0.815	3.6	114	0.00	7.19- 7.25
16	A	4,4'-DDD	0.698	0.680	2.6	107	0.00	7.42- 7.48
17	B	Endosulfan II	0.827	0.806	2.5	112	0.00	7.58- 7.64
18	MA	4,4'-DDT	0.633	0.597	5.7	106	0.00	7.99- 8.05
19	B	Endrin Aldehyde	0.670	0.631	5.8	109	0.00	8.20- 8.26
20	B	Endosulfan Sulfate	0.727	0.686	5.6	112	0.00	8.72- 8.78
21	A	Methoxychlor	0.349	0.328	6.0	104	0.00	9.37- 9.43
22		Mirex	0.716	0.664	7.3	115	0.00	9.67- 9.73
23	B	Endrin Ketone	0.850	0.786	7.5	109	0.00	9.76- 9.82
24	SAB	Decachlorobiphenyl	0.679	0.697	-2.7	116	0.00	11.70-11.76
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	109	0.00	1.53- 1.59
26	L8	Toxaphene{A}		----------NA----------				
27	L8	Toxaphene{B}		----------NA----------				
28	L8	Toxaphene{C}		----------NA----------				
29	L8	Toxaphene{D}		----------NA----------				
30	L8	Toxaphene{E}		----------NA----------				
31	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	112	0.00	1.46- 1.66
32		Chlordane {A}		----------NA----------				
33		Chlordane {B}		----------NA----------				
34		Chlordane {C}		----------NA----------				
35		Chlordane {D}		----------NA----------				
36		Chlordane {E}		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6g34135.D 6PST987.M Mon May 16 10:52:05 2016

10.9.13 10

Continuing Calibration Summary

Job Number: JC20098 **Sample:** G6G1011-CC987
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 6G35087.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\1011\6g35087.D\ECD1A.CH    Vial: 2
Signal #2 : C:\msdchem\1\DATA\1011\6g35087.D\ECD2B.CH
Acq On    : 16 May 2016   9:35 am                    Operator: rebeccak
Sample    : cc987-25                                 Inst    : HP G1530A
Misc      : op93772,g6g1011,1000,,,5,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\6PST987.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon May 16 10:05:37 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	83	0.00	1.27- 1.33
2	SAB	Tetrachloro-m-xylene	0.916	0.898	2.0	84	0.00	1.94- 2.00
3	A	alpha-BHC	1.181	1.169	1.0	82	0.00	2.45- 2.51
4	MA	gamma-BHC	1.100	1.078	2.0	82	0.00	2.76- 2.82
5	MA	Heptachlor	1.104	0.994	10.0	76	0.00	3.29- 3.35
6	B	beta-BHC	0.540	0.540	0.0	84	0.00	2.85- 2.91
7	B	delta-BHC	1.025	0.898	12.4	72	0.00	3.04- 3.10
8	MB	Aldrin	1.020	0.944	7.5	78	0.00	3.64- 3.71
9	B	Heptachlor Epoxide	0.955	0.859	10.1	76	0.00	4.39- 4.45
10	B	gamma-Chlordane	0.961	0.827	13.9	73	0.00	4.56- 4.62
11	B	alpha-Chlordane	0.954	0.855	10.4	76	0.00	4.74- 4.80
12	A	Endosulfan I	0.941	0.874	7.1	79	0.00	4.92- 4.98
13	B	4,4'-DDE	0.790	0.731	7.5	79	0.00	4.87- 4.93
14	MA	Dieldrin	0.931	0.865	7.1	79	0.00	5.26- 5.32
15	MA	Endrin	0.844	0.811	3.9	81	0.00	5.61- 5.67
16	A	4,4'-DDD	0.668	0.622	6.9	81	0.00	5.76- 5.82
17	B	Endosulfan II	0.833	0.795	4.6	83	0.00	5.95- 6.01
18	MA	4,4'-DDT	0.727	0.620	14.7	73	0.00	6.21- 6.27
19	B	Endrin Aldehyde	0.679	0.676	0.4	85	0.00	6.61- 6.67
20	B	Endosulfan Sulfate	0.732	0.720	1.6	85	0.00	7.35- 7.41
21	A	Methoxychlor	0.436	0.388	11.0	74	0.00	7.07- 7.13
22		Mirex	0.746	0.709	5.0	80	0.00	7.20- 7.26
23	B	Endrin Ketone	0.870	0.862	0.9	83	0.00	7.82- 7.88
24	SAB	Decachlorobiphenyl	0.797	0.764	4.1	81	0.00	9.86- 9.92
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	79	0.00	1.27- 1.33
26	L8	Toxaphene{A}		----------NA----------				
27	L8	Toxaphene{B}		----------NA----------				
28	L8	Toxaphene{C}		----------NA----------				
29	L8	Toxaphene{D}		----------NA----------				
30	L8	Toxaphene{E}		----------NA----------				
31	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	79	0.00	1.27- 1.33
32		Chlordane {A}		----------NA----------				
33		Chlordane {B}		----------NA----------				
34		Chlordane {C}		----------NA----------				
35		Chlordane {D}		----------NA----------				
36		Chlordane {E}		----------NA----------				

***** Signal #2 *****

10.9.14 10

Continuing Calibration Summary

Job Number: JC20098 **Sample:** G6G1011-CC987
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 6G35087.D
Project: BMSMC, Building 5 Area, PR

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	107	0.00	1.54- 1.60
2	SAB	Tetrachloro-m-xylene	0.903	0.878	2.8	108	0.00	2.43- 2.49
3	A	alpha-BHC	1.177	1.151	2.2	109	0.00	3.13- 3.19
4	MA	gamma-BHC	1.102	1.055	4.3	107	0.00	3.58- 3.64
5	MA	Heptachlor	1.114	0.989	11.2	102	0.00	4.18- 4.24
6	B	beta-BHC	0.537	0.492	8.4	103	0.00	3.67- 3.73
7	B	delta-BHC	1.027	0.962	6.3	104	0.00	4.09- 4.15
8	MB	Aldrin	1.036	0.957	7.6	104	0.00	4.66- 4.72
9	B	Heptachlor Epoxide	0.965	0.884	8.4	102	0.00	5.53- 5.59
10	B	gamma-Chlordane	0.944	0.872	7.6	104	0.00	5.84- 5.90
11	B	alpha-Chlordane	0.937	0.853	9.0	103	0.00	6.08- 6.14
12	A	Endosulfan I	0.911	0.829	9.0	104	0.00	6.18- 6.24
13	B	4,4'-DDE	0.808	0.769	4.8	116	0.00	6.38- 6.44
14	MA	Dieldrin	0.930	0.871	6.3	107	0.00	6.65- 6.71
15	MA	Endrin	0.845	0.803	5.0	109	0.00	7.19- 7.25
16	A	4,4'-DDD	0.698	0.677	3.0	107	0.00	7.41- 7.47
17	B	Endosulfan II	0.827	0.801	3.1	112	0.00	7.57- 7.63
18	MA	4,4'-DDT	0.633	0.600	5.2	108	0.00	7.99- 8.05
19	B	Endrin Aldehyde	0.670	0.646	3.6	109	0.00	8.20- 8.26
20	B	Endosulfan Sulfate	0.727	0.708	2.6	112	0.00	8.72- 8.78
21	A	Methoxychlor	0.349	0.332	4.9	104	0.00	9.37- 9.43
22		Mirex	0.716	0.655	8.5	107	0.00	9.67- 9.73
23	B	Endrin Ketone	0.850	0.829	2.5	113	0.00	9.76- 9.82
24	SAB	Decachlorobiphenyl	0.679	0.706	-4.0	112	0.00	11.70-11.76
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	100	0.00	1.54- 1.60
26	L8	Toxaphene{A}		----------NA----------				
27	L8	Toxaphene{B}		----------NA----------				
28	L8	Toxaphene{C}		----------NA----------				
29	L8	Toxaphene{D}		----------NA----------				
30	L8	Toxaphene{E}		----------NA----------				
31	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	100	0.00	1.47- 1.67
32		Chlordane {A}		----------NA----------				
33		Chlordane {B}		----------NA----------				
34		Chlordane {C}		----------NA----------				
35		Chlordane {D}		----------NA----------				
36		Chlordane {E}		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6g34134.D 6PST987.M Mon May 16 12:48:13 2016

10.9.14 10

Continuing Calibration Summary

Job Number: JC20098 **Sample:** G6G1011-CC987
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 6G35106.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\1011\6g35106.D\ECD1A.CH    Vial: 4
Signal #2 : C:\msdchem\1\DATA\1011\6g35106.D\ECD2B.CH
Acq On    : 16 May 2016   3:56 pm                    Operator: rebeccak
Sample    : cc987-50                                 Inst    : HP G1530A
Misc      : op93876,g6g1011,100,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\6PST987.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon May 16 10:05:37 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	85	0.00	1.26- 1.32
2	SAB	Tetrachloro-m-xylene	0.916	0.892	2.6	84	0.00	1.94- 2.00
3	A	alpha-BHC	1.181	1.254	-6.2	83	0.00	2.45- 2.51
4	MA	gamma-BHC	1.100	1.134	-3.1	83	0.00	2.76- 2.82
5	MA	Heptachlor	1.104	1.048	5.1	79	0.00	3.29- 3.35
6	B	beta-BHC	0.540	0.513	5.0	82	0.00	2.84- 2.90
7	B	delta-BHC	1.025	0.978	4.6	74	0.00	3.04- 3.10
8	MB	Aldrin	1.020	1.001	1.9	81	0.00	3.63- 3.70
9	B	Heptachlor Epoxide	0.955	0.878	8.1	77	0.00	4.38- 4.44
10	B	gamma-Chlordane	0.961	0.857	10.8	74	0.00	4.56- 4.62
11	B	alpha-Chlordane	0.954	0.874	8.4	77	0.00	4.74- 4.80
12	A	Endosulfan I	0.941	0.882	6.3	79	0.00	4.92- 4.98
13	B	4,4'-DDE	0.790	0.812	-2.8	84	0.00	4.87- 4.93
14	MA	Dieldrin	0.931	0.901	3.2	80	0.00	5.26- 5.32
15	MA	Endrin	0.844	0.834	1.2	82	0.00	5.60- 5.66
16	A	4,4'-DDD	0.668	0.664	0.6	81	0.00	5.76- 5.82
17	B	Endosulfan II	0.833	0.803	3.6	80	0.00	5.94- 6.00
18	MA	4,4'-DDT	0.727	0.647	11.0	74	0.00	6.21- 6.27
19	B	Endrin Aldehyde	0.679	0.682	-0.4	86	0.00	6.61- 6.67
20	B	Endosulfan Sulfate	0.732	0.716	2.2	84	0.00	7.35- 7.41
21	A	Methoxychlor	0.436	0.391	10.3	77	0.00	7.07- 7.13
22		Mirex	0.746	0.690	7.5	82	0.00	7.20- 7.26
23	B	Endrin Ketone	0.870	0.887	-2.0	85	0.00	7.82- 7.88
24	SAB	Decachlorobiphenyl	0.797	0.798	-0.1	89	0.00	9.85- 9.91
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	84	0.00	1.26- 1.32
26	L8	Toxaphene{A}		----------NA----------				
27	L8	Toxaphene{B}		----------NA----------				
28	L8	Toxaphene{C}		----------NA----------				
29	L8	Toxaphene{D}		----------NA----------				
30	L8	Toxaphene{E}		----------NA----------				
31	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	86	0.00	1.26- 1.32
32		Chlordane {A}		----------NA----------				
33		Chlordane {B}		----------NA----------				
34		Chlordane {C}		----------NA----------				
35		Chlordane {D}		----------NA----------				
36		Chlordane {E}		----------NA----------				

***** Signal #2 *****

10.9.15 10

Continuing Calibration Summary

Job Number: JC20098 **Sample:** G6G1011-CC987
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 6G35106.D
Project: BMSMC, Building 5 Area, PR

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	106	0.00	1.53- 1.59
2	SAB	Tetrachloro-m-xylene	0.903	0.857	5.1	105	0.00	2.43- 2.49
3	A	alpha-BHC	1.177	1.182	-0.4	105	0.00	3.13- 3.19
4	MA	gamma-BHC	1.102	1.076	2.4	104	0.00	3.58- 3.64
5	MA	Heptachlor	1.114	0.996	10.6	98	0.00	4.18- 4.24
6	B	beta-BHC	0.537	0.494	8.0	100	0.00	3.67- 3.73
7	B	delta-BHC	1.027	0.975	5.1	100	0.00	4.08- 4.14
8	MB	Aldrin	1.036	0.954	7.9	102	0.00	4.65- 4.71
9	B	Heptachlor Epoxide	0.965	0.871	9.7	100	0.00	5.53- 5.59
10	B	gamma-Chlordane	0.944	0.857	9.2	101	0.00	5.84- 5.90
11	B	alpha-Chlordane	0.937	0.836	10.8	100	0.00	6.08- 6.14
12	A	Endosulfan I	0.911	0.816	10.4	101	0.00	6.18- 6.24
13	B	4,4'-DDE	0.808	0.772	4.5	101	0.00	6.38- 6.44
14	MA	Dieldrin	0.930	0.862	7.3	104	0.00	6.65- 6.71
15	MA	Endrin	0.845	0.799	5.4	106	0.00	7.19- 7.25
16	A	4,4'-DDD	0.698	0.689	1.3	104	0.00	7.41- 7.47
17	B	Endosulfan II	0.827	0.796	3.7	105	0.00	7.57- 7.63
18	MA	4,4'-DDT	0.633	0.598	5.5	101	0.00	7.99- 8.05
19	B	Endrin Aldehyde	0.670	0.650	3.0	107	0.00	8.20- 8.26
20	B	Endosulfan Sulfate	0.727	0.687	5.5	108	0.00	8.71- 8.77
21	A	Methoxychlor	0.349	0.335	4.0	101	0.00	9.37- 9.43
22		Mirex	0.716	0.643	10.2	107	0.00	9.67- 9.73
23	B	Endrin Ketone	0.850	0.837	1.5	111	0.00	9.76- 9.82
24	SAB	Decachlorobiphenyl	0.679	0.721	-6.2	115	0.00	11.70-11.76
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	104	0.00	1.53- 1.59
26	L8	Toxaphene{A}		----------NA----------				
27	L8	Toxaphene{B}		----------NA----------				
28	L8	Toxaphene{C}		----------NA----------				
29	L8	Toxaphene{D}		----------NA----------				
30	L8	Toxaphene{E}		----------NA----------				
31	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	107	0.00	1.46- 1.66
32		Chlordane {A}		----------NA----------				
33		Chlordane {B}		----------NA----------				
34		Chlordane {C}		----------NA----------				
35		Chlordane {D}		----------NA----------				
36		Chlordane {E}		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6g34135.D 6PST987.M Mon May 16 17:44:06 2016

10.9.15 10

Continuing Calibration Summary

Job Number: JC20098 **Sample:** G6G1012-CC987
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 6G35139.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\1012\6g35139.D\ECD1A.CH    Vial: 2
Signal #2 : C:\msdchem\1\DATA\1012\6g35139.D\ECD2B.CH
Acq On    : 17 May 2016   8:41 am                    Operator: rebeccak
Sample    : cc987-25                                 Inst    : HP G1530A
Misc      : op93898,g6g1012,495,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\6PST987.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon May 16 10:05:37 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	86	0.00	1.27- 1.33
2	SAB	Tetrachloro-m-xylene	0.916	0.876	4.4	86	0.00	1.94- 2.00
3	A	alpha-BHC	1.181	1.163	1.5	86	0.00	2.45- 2.51
4	MA	gamma-BHC	1.100	1.073	2.5	85	0.00	2.76- 2.82
5	MA	Heptachlor	1.104	0.999	9.5	80	0.00	3.29- 3.35
6	B	beta-BHC	0.540	0.516	4.4	84	0.00	2.84- 2.90
7	B	delta-BHC	1.025	0.933	9.0	78	0.00	3.04- 3.10
8	MB	Aldrin	1.020	0.937	8.1	81	0.00	3.63- 3.70
9	B	Heptachlor Epoxide	0.955	0.857	10.3	79	0.00	4.38- 4.44
10	B	gamma-Chlordane	0.961	0.827	13.9	76	0.00	4.56- 4.62
11	B	alpha-Chlordane	0.954	0.850	10.9	79	0.00	4.74- 4.80
12	A	Endosulfan I	0.941	0.861	8.5	81	0.00	4.92- 4.98
13	B	4,4'-DDE	0.790	0.730	7.6	82	0.00	4.87- 4.93
14	MA	Dieldrin	0.931	0.861	7.5	82	0.00	5.26- 5.32
15	MA	Endrin	0.844	0.803	4.9	84	0.00	5.60- 5.66
16	A	4,4'-DDD	0.668	0.618	7.5	84	0.00	5.76- 5.82
17	B	Endosulfan II	0.833	0.777	6.7	85	0.00	5.94- 6.00
18	MA	4,4'-DDT	0.727	0.626	13.9	77	0.00	6.21- 6.27
19	B	Endrin Aldehyde	0.679	0.647	4.7	85	0.00	6.61- 6.67
20	B	Endosulfan Sulfate	0.732	0.718	1.9	88	0.00	7.35- 7.41
21	A	Methoxychlor	0.436	0.382	12.4	76	0.00	7.07- 7.13
22		Mirex	0.746	0.697	6.6	82	0.00	7.20- 7.26
23	B	Endrin Ketone	0.870	0.865	0.6	87	0.00	7.82- 7.88
24	SAB	Decachlorobiphenyl	0.797	0.759	4.8	85	0.00	9.85- 9.91
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	83	0.00	1.27- 1.33
26	L8	Toxaphene{A}		----------NA----------				
27	L8	Toxaphene{B}		----------NA----------				
28	L8	Toxaphene{C}		----------NA----------				
29	L8	Toxaphene{D}		----------NA----------				
30	L8	Toxaphene{E}		----------NA----------				
31	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	83	0.00	1.27- 1.33
32		Chlordane {A}		----------NA----------				
33		Chlordane {B}		----------NA----------				
34		Chlordane {C}		----------NA----------				
35		Chlordane {D}		----------NA----------				
36		Chlordane {E}		----------NA----------				

***** Signal #2 *****

10.9.16 10

Continuing Calibration Summary

Job Number: JC20098 **Sample:** G6G1012-CC987
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 6G35139.D
Project: BMSMC, Building 5 Area, PR

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	106	0.00	1.54- 1.60
2	SAB	Tetrachloro-m-xylene	0.903	0.869	3.8	106	0.00	2.43- 2.49
3	A	alpha-BHC	1.177	1.156	1.8	108	0.00	3.13- 3.19
4	MA	gamma-BHC	1.102	1.061	3.7	106	0.00	3.58- 3.64
5	MA	Heptachlor	1.114	1.009	9.4	103	0.00	4.18- 4.24
6	B	beta-BHC	0.537	0.497	7.4	104	0.00	3.67- 3.73
7	B	delta-BHC	1.027	0.990	3.6	106	0.00	4.08- 4.14
8	MB	Aldrin	1.036	0.959	7.4	104	0.00	4.65- 4.71
9	B	Heptachlor Epoxide	0.965	0.891	7.7	102	0.00	5.53- 5.59
10	B	gamma-Chlordane	0.944	0.868	8.1	103	0.00	5.84- 5.90
11	B	alpha-Chlordane	0.937	0.857	8.5	102	0.00	6.08- 6.14
12	A	Endosulfan I	0.911	0.836	8.2	103	0.00	6.18- 6.24
13	B	4,4'-DDE	0.808	0.766	5.2	114	0.00	6.38- 6.44
14	MA	Dieldrin	0.930	0.872	6.2	106	0.00	6.65- 6.71
15	MA	Endrin	0.845	0.814	3.7	110	0.00	7.19- 7.25
16	A	4,4'-DDD	0.698	0.690	1.1	108	0.00	7.41- 7.47
17	B	Endosulfan II	0.827	0.808	2.3	112	0.00	7.57- 7.63
18	MA	4,4'-DDT	0.633	0.616	2.7	109	0.00	7.99- 8.05
19	B	Endrin Aldehyde	0.670	0.651	2.8	109	0.00	8.20- 8.26
20	B	Endosulfan Sulfate	0.727	0.716	1.5	112	0.00	8.71- 8.77
21	A	Methoxychlor	0.349	0.342	2.0	106	0.00	9.36- 9.42
22		Mirex	0.716	0.654	8.7	105	0.00	9.67- 9.73
23	B	Endrin Ketone	0.850	0.844	0.7	113	0.00	9.76- 9.82
24	SAB	Decachlorobiphenyl	0.679	0.721	-6.2	113	0.00	11.70-11.76
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	99	0.00	1.54- 1.60
26	L8	Toxaphene{A}		----------NA----------				
27	L8	Toxaphene{B}		----------NA----------				
28	L8	Toxaphene{C}		----------NA----------				
29	L8	Toxaphene{D}		----------NA----------				
30	L8	Toxaphene{E}		----------NA----------				
31	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	99	0.00	1.47- 1.67
32		Chlordane {A}		----------NA----------				
33		Chlordane {B}		----------NA----------				
34		Chlordane {C}		----------NA----------				
35		Chlordane {D}		----------NA----------				
36		Chlordane {E}		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6g34134.D 6PST987.M Tue May 17 11:23:02 2016

10.9.16 10

Continuing Calibration Summary

Job Number: JC20098 **Sample:** G6G1012-CC987
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 6G35158.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\1012\6g35158.D\ECD1A.CH    Vial: 4
Signal #2 : C:\msdchem\1\DATA\1012\6g35158.D\ECD2B.CH
Acq On    : 17 May 2016   3:28 pm                    Operator: dharas
Sample    : cc987-50                                 Inst    : HP G1530A
Misc      : op93928,g6g1012,15.6,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\6PST987.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon May 16 10:05:37 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	90	0.00	1.27- 1.33
2	SAB	Tetrachloro-m-xylene	0.916	0.909	0.8	91	0.00	1.94- 2.00
3	A	alpha-BHC	1.181	1.279	-8.3	90	0.00	2.45- 2.51
4	MA	gamma-BHC	1.100	1.163	-5.7	90	0.00	2.76- 2.82
5	MA	Heptachlor	1.104	1.062	3.8	85	0.00	3.29- 3.35
6	B	beta-BHC	0.540	0.530	1.9	90	0.00	2.85- 2.91
7	B	delta-BHC	1.025	1.020	0.5	82	0.00	3.04- 3.10
8	MB	Aldrin	1.020	1.010	1.0	86	0.00	3.63- 3.70
9	B	Heptachlor Epoxide	0.955	0.928	2.8	86	0.00	4.38- 4.44
10	B	gamma-Chlordane	0.961	0.867	9.8	79	0.00	4.56- 4.62
11	B	alpha-Chlordane	0.954	0.882	7.5	82	0.00	4.74- 4.80
12	A	Endosulfan I	0.941	0.921	2.1	87	0.00	4.92- 4.98
13	B	4,4'-DDE	0.790	0.761	3.7	83	0.00	4.87- 4.93
14	MA	Dieldrin	0.931	0.921	1.1	87	0.00	5.26- 5.32
15	MA	Endrin	0.844	0.853	-1.1	89	0.00	5.60- 5.66
16	A	4,4'-DDD	0.668	0.646	3.3	83	0.00	5.76- 5.82
17	B	Endosulfan II	0.833	0.821	1.4	87	0.00	5.94- 6.00
18	MA	4,4'-DDT	0.727	0.699	3.9	84	0.00	6.21- 6.27
19	B	Endrin Aldehyde	0.679	0.689	-1.5	92	0.00	6.61- 6.67
20	B	Endosulfan Sulfate	0.732	0.756	-3.3	94	0.00	7.35- 7.41
21	A	Methoxychlor	0.436	0.404	7.3	83	0.00	7.07- 7.13
22		Mirex	0.746	0.705	5.5	88	0.00	7.20- 7.26
23	B	Endrin Ketone	0.870	0.902	-3.7	91	0.00	7.82- 7.88
24	SAB	Decachlorobiphenyl	0.797	0.757	5.0	89	0.00	9.85- 9.91
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	88	0.00	1.27- 1.33
26	L8	Toxaphene{A}		----------NA----------				
27	L8	Toxaphene{B}		----------NA----------				
28	L8	Toxaphene{C}		----------NA----------				
29	L8	Toxaphene{D}		----------NA----------				
30	L8	Toxaphene{E}		----------NA----------				
31	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	91	0.00	1.27- 1.33
32		Chlordane {A}		----------NA----------				
33		Chlordane {B}		----------NA----------				
34		Chlordane {C}		----------NA----------				
35		Chlordane {D}		----------NA----------				
36		Chlordane {E}		----------NA----------				

***** Signal #2 *****

10.9.17 10

Continuing Calibration Summary

Job Number: JC20098 **Sample:** G6G1012-CC987
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 6G35158.D
Project: BMSMC, Building 5 Area, PR

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	108	0.00	1.54- 1.60
2	SAB	Tetrachloro-m-xylene	0.903	0.857	5.1	108	0.00	2.43- 2.49
3	A	alpha-BHC	1.177	1.189	-1.0	108	0.00	3.13- 3.19
4	MA	gamma-BHC	1.102	1.082	1.8	107	0.00	3.58- 3.64
5	MA	Heptachlor	1.114	1.013	9.1	102	0.00	4.18- 4.24
6	B	beta-BHC	0.537	0.482	10.2	99	0.00	3.67- 3.73
7	B	delta-BHC	1.027	1.008	1.9	106	0.00	4.08- 4.14
8	MB	Aldrin	1.036	0.958	7.5	104	0.00	4.65- 4.71
9	B	Heptachlor Epoxide	0.965	0.886	8.2	104	0.00	5.53- 5.59
10	B	gamma-Chlordane	0.944	0.868	8.1	104	0.00	5.84- 5.90
11	B	alpha-Chlordane	0.937	0.859	8.3	105	0.00	6.08- 6.14
12	A	Endosulfan I	0.911	0.828	9.1	105	0.00	6.18- 6.24
13	B	4,4'-DDE	0.808	0.743	8.0	99	0.00	6.38- 6.44
14	MA	Dieldrin	0.930	0.860	7.5	106	0.00	6.65- 6.71
15	MA	Endrin	0.845	0.811	4.0	110	0.00	7.19- 7.25
16	A	4,4'-DDD	0.698	0.680	2.6	105	0.00	7.41- 7.47
17	B	Endosulfan II	0.827	0.806	2.5	109	0.00	7.57- 7.63
18	MA	4,4'-DDT	0.633	0.618	2.4	107	0.00	7.99- 8.05
19	B	Endrin Aldehyde	0.670	0.643	4.0	108	0.00	8.20- 8.26
20	B	Endosulfan Sulfate	0.727	0.706	2.9	113	0.00	8.71- 8.77
21	A	Methoxychlor	0.349	0.349	0.0	108	0.00	9.37- 9.43
22		Mirex	0.716	0.655	8.5	111	0.00	9.67- 9.73
23	B	Endrin Ketone	0.850	0.841	1.1	114	0.00	9.76- 9.82
24	SAB	Decachlorobiphenyl	0.679	0.707	-4.1	115	0.00	11.70-11.76
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	106	0.00	1.54- 1.60
26	L8	Toxaphene{A}		----------NA----------				
27	L8	Toxaphene{B}		----------NA----------				
28	L8	Toxaphene{C}		----------NA----------				
29	L8	Toxaphene{D}		----------NA----------				
30	L8	Toxaphene{E}		----------NA----------				
31	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	109	0.00	1.47- 1.67
32		Chlordane {A}		----------NA----------				
33		Chlordane {B}		----------NA----------				
34		Chlordane {C}		----------NA----------				
35		Chlordane {D}		----------NA----------				
36		Chlordane {E}		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6g34135.D 6PST987.M Tue May 17 17:23:25 2016

10.9.17 10

GC Semi-volatiles

Raw Data

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
05/16/16 17:57

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1788\
Data File : 4g68217.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 May 2016 10:36 am
Operator : dharas
Sample : jc20098-4
Misc : op93870,g4g1788,980,,,10,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 16 16:58:12 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.786	2.061	333.0E6	367.7E6	50.000	50.000
25) I	1-bromo-2...	1.786	2.061	333.0E6	367.7E6	50.000	50.000
31) I	1-bromo-2...	1.786	2.061	333.0E6	367.7E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	2.579	3.096	250.7E6	186.0E6	43.653	28.726m#
Spiked Amount		40.000	Range	30 - 150	Recovery	= 109.13%	71.81%
24) SA	Decachlor...	10.232f	11.632f	177.8E6	94369256	32.850m	20.550m#
Spiked Amount		40.000			Recovery	= 82.13%	51.38%
	Target Compounds						
	SemiQuant Compounds - Not Calibrated on this Instrument						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

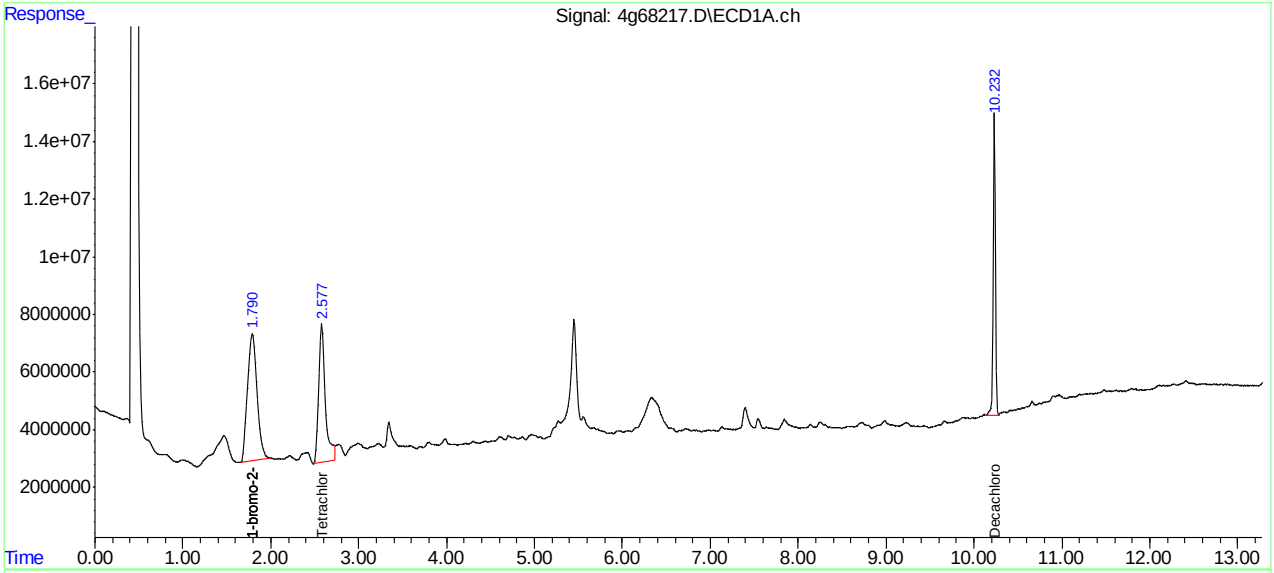
11.1.1
11

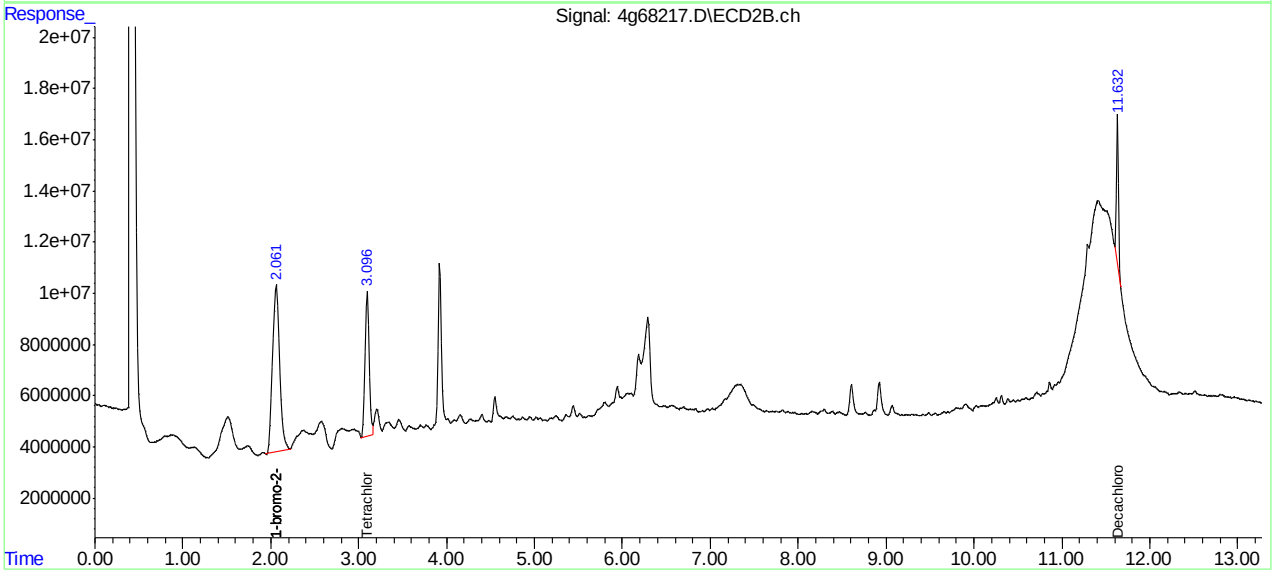
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1788\
Data File : 4g68217.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 May 2016 10:36 am
Operator : dharas
Sample : jc20098-4
Misc : op93870,g4g1788,980,,,10,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 16 16:58:12 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





Manual Integration Approval Summary

Sample Number:	JC20098-4	**Method:**	SW846 8081B
Lab FileID:	4G68217.D	**Analyst approved:**	05/16/16 17:00 Dhara Saparia
Injection Time:	05/13/16 10:36	**Supervisor approved:**	05/16/16 17:57 Gwendolyn Burns

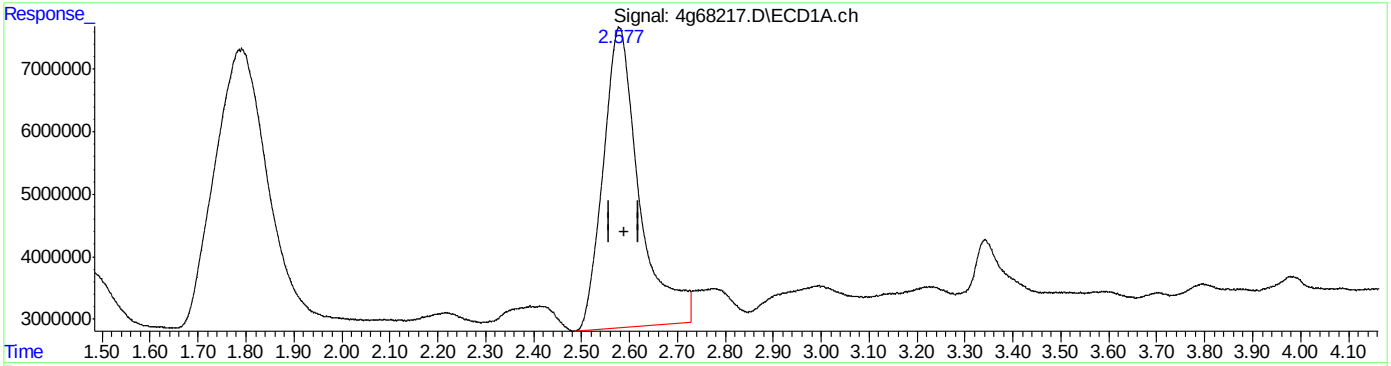
Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrachloro-m-xylene	877-09-8	2	3.10	Poorly defined baseline
Decachlorobiphenyl	2051-24-3	1	10.23	Poorly defined baseline
Decachlorobiphenyl	2051-24-3	2	11.63	Poorly defined baseline

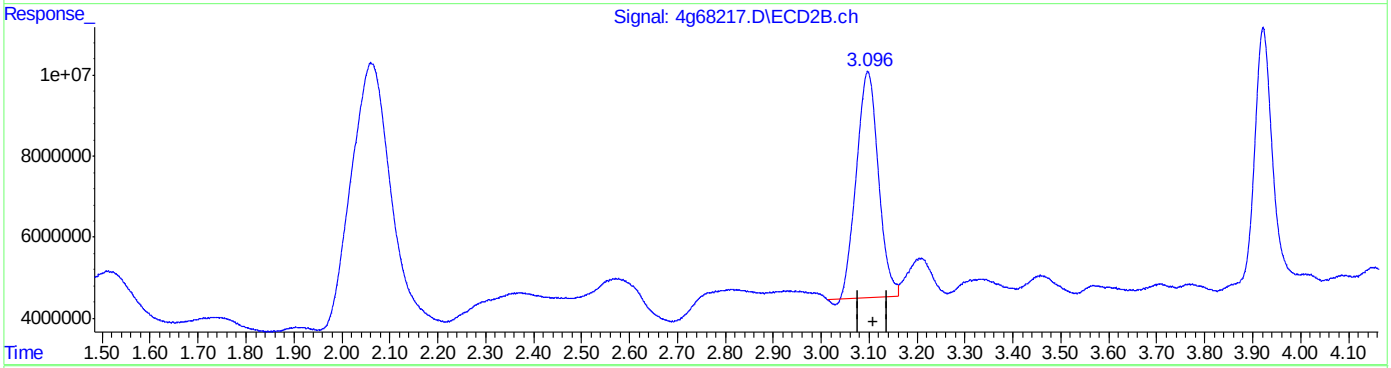
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1788\
Data File : 4g68217.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 May 2016 10:36 am
Operator : dharas
Sample : jc20098-4
Misc : op93870,g4g1788,980,,,10,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 16 16:57:13 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(2) Tetrachloro-m-xylene (SAB)
2.579min 43.653 PPB
response 250663721

(2) Tetrachloro-m-xylene #2 (SAB)
3.097min 27.565 PPB
response 178493245

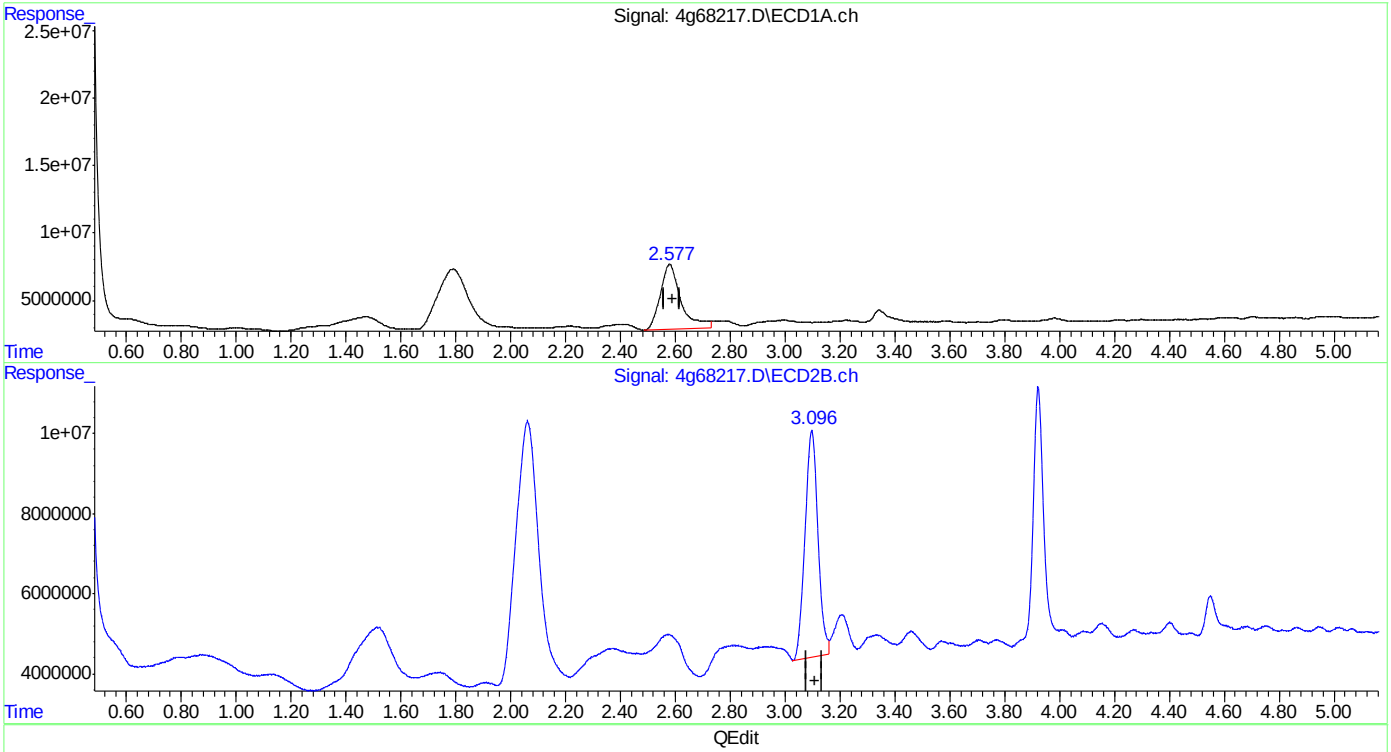
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1788\
Data File : 4g68217.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 May 2016 10:36 am
Operator : dharas
Sample : jc20098-4
Misc : op93870,g4g1788,980,,,10,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 16 16:57:13 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



(2) Tetrachloro-m-xylene (SAB)
2.579min 43.653 PPB
response 250663721

(2) Tetrachloro-m-xylene #2 (SAB)
3.096min 28.726 PPB m
response 186011993

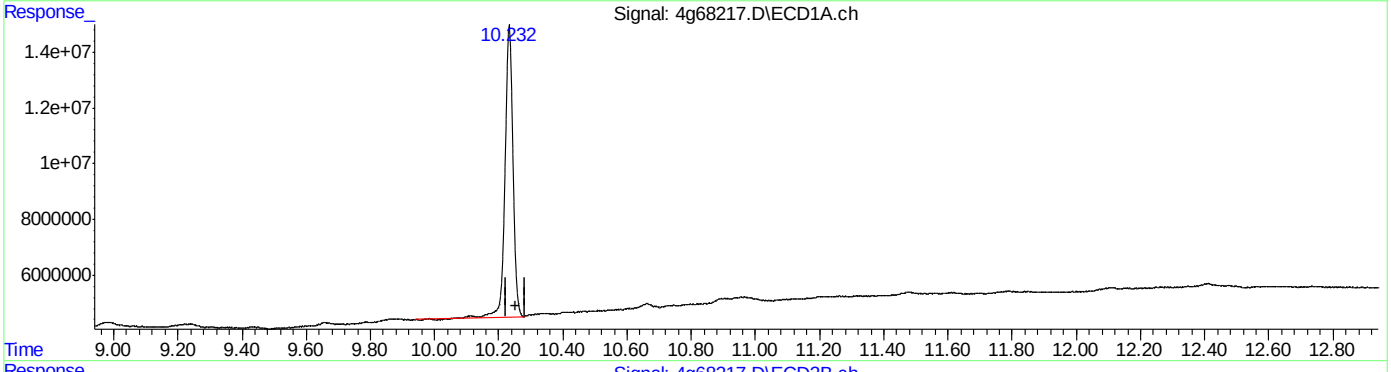
(+) = Expected Retention Time
4PST1778.M Mon May 16 16:57:29 2016 RPT1

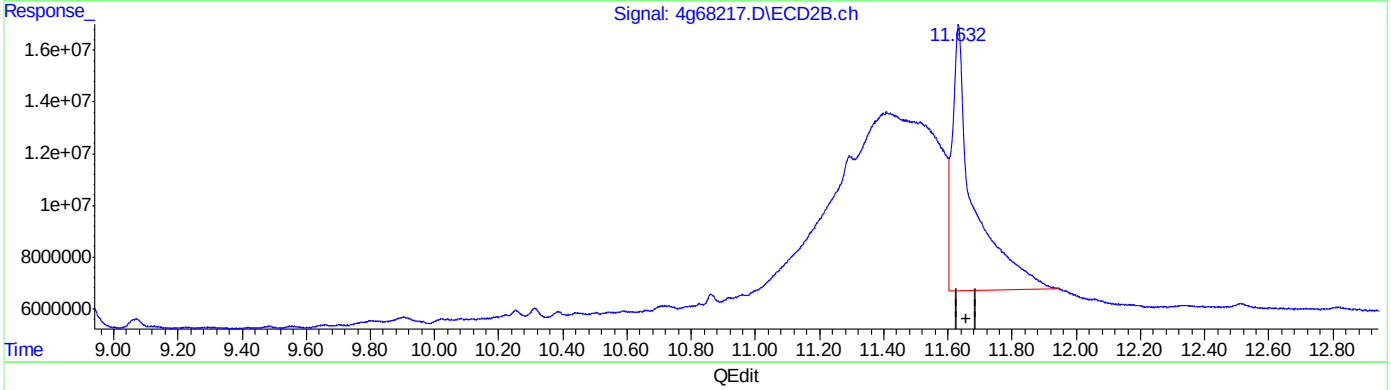
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1788\
Data File : 4g68217.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 May 2016 10:36 am
Operator : dharas
Sample : jc20098-4
Misc : op93870,g4g1788,980,,,10,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 16 16:57:13 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(24) Decachlorobiphenyl (SA)
10.233min 33.365 PPB
response 180544597

(24) Decachlorobiphenyl #2 (SA)
11.633min 103.007 PPB
response 473032438

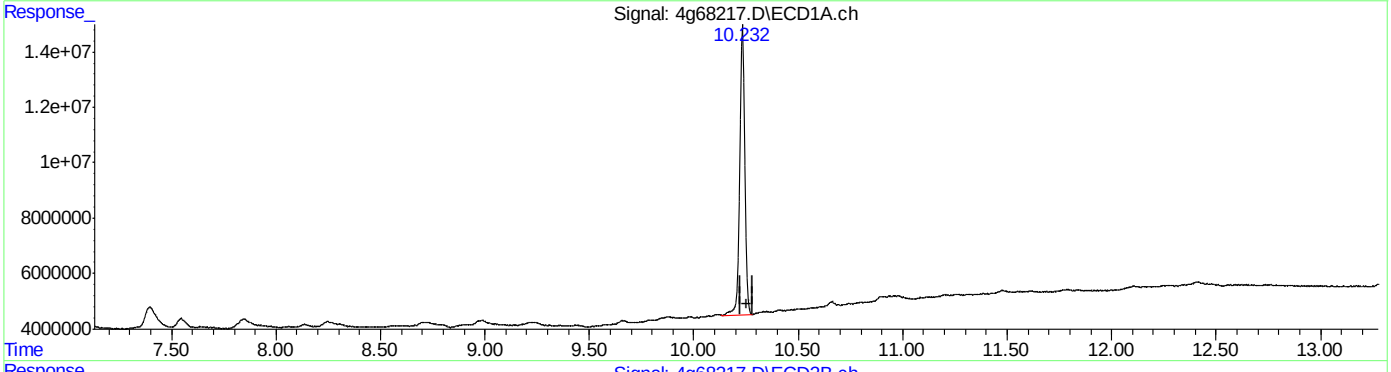
(+) = Expected Retention Time
4PST1778.M Mon May 16 16:57:33 2016 RPT1

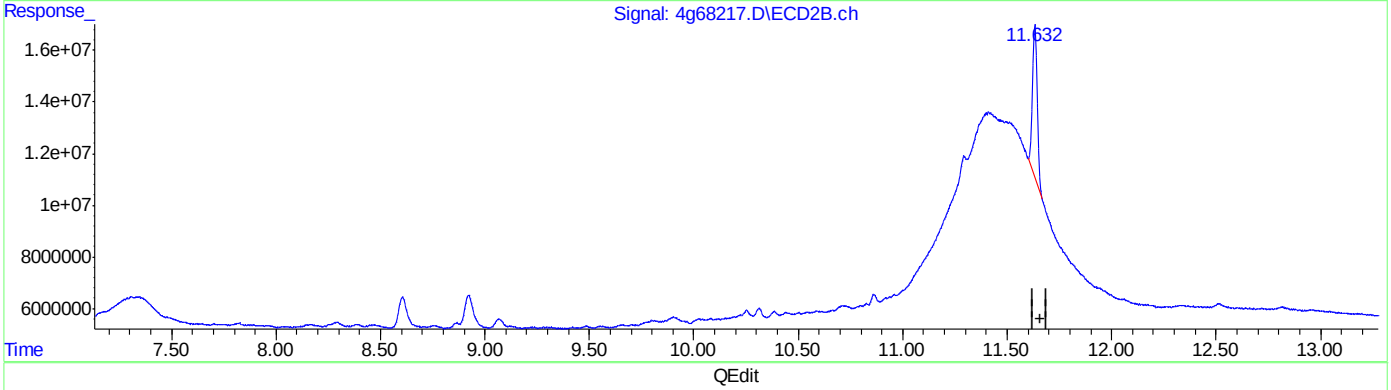
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1788\
Data File : 4g68217.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 May 2016 10:36 am
Operator : dharas
Sample : jc20098-4
Misc : op93870,g4g1788,980,,,10,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 16 16:57:13 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(24) Decachlorobiphenyl (SA)
10.232min 32.850 PPB m
response 177755778

(24) Decachlorobiphenyl #2 (SA)
11.632min 20.550 PPB m
response 94369256

(+) = Expected Retention Time

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1011\
Data File : 6g35091.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 May 2016 10:46 am
Operator : dharas
Sample : jc20098-5
Misc : op93898,g6g1011,870,,,10,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 16 11:57:41 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 16 10:05:37 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
Internal Standards						
1) I 1-bromo-2...	1.297	1.567	124.0E6	52112669	50.000	50.000
25) I 1-bromo-2...	1.297	1.567	124.0E6	52112669	50.000	50.000
31) I 1-bromo-2...	1.297	1.567	124.0E6	52112669	50.000	50.000
System Monitoring Compounds						
2) SAB Tetrachlo...	1.971	2.458	73166369	27652237	32.204	29.370
Spiked Amount	40.000	Range	30 - 150	Recovery	= 80.51%	73.43%
24) SAB Decachlor...	9.887	11.731	29232472	10874550	14.797	15.362
Spiked Amount	40.000			Recovery	= 36.99%	38.41%

Target Compounds

SemiQuant Compounds - Not Calibrated on this Instrument

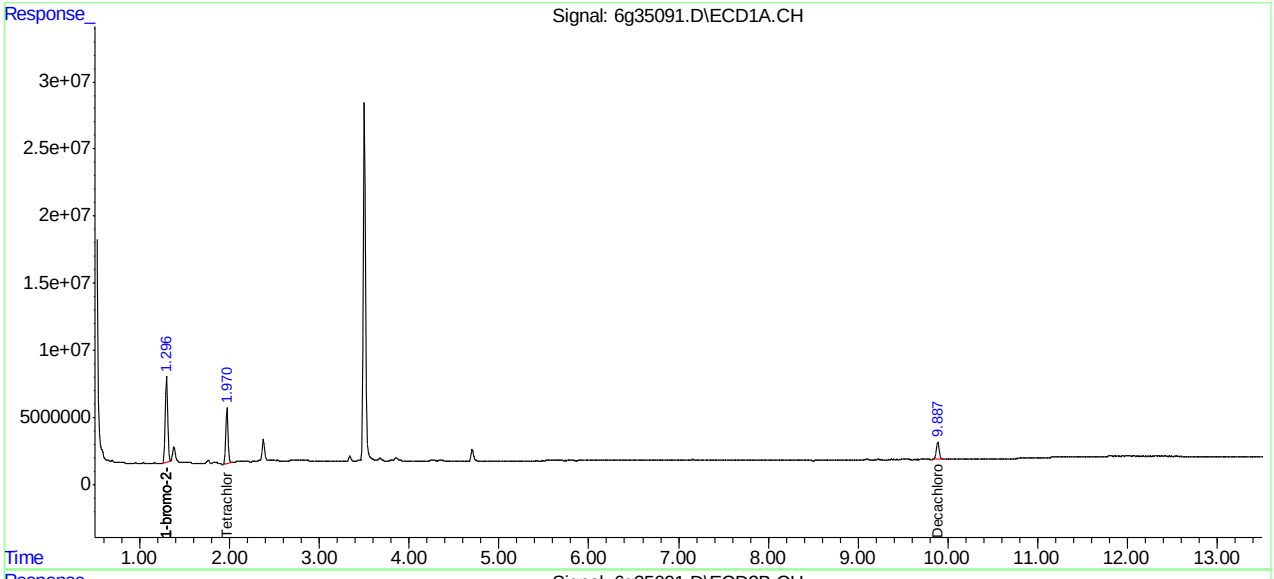
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

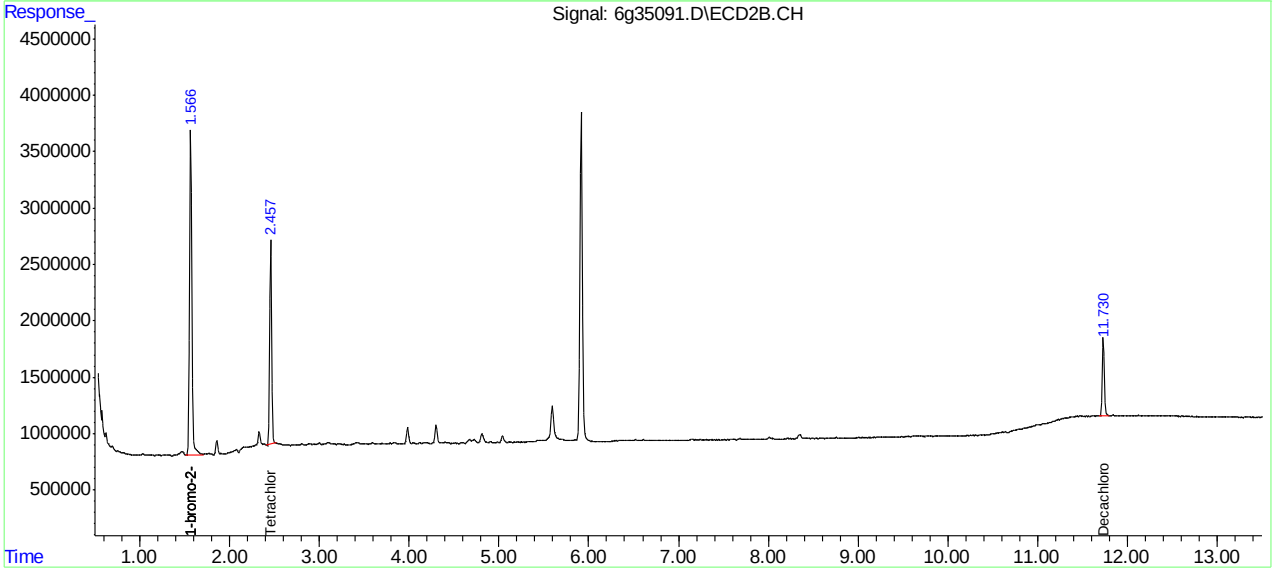
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1011\
Data File : 6g35091.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 May 2016 10:46 am
Operator : dharas
Sample : jc20098-5
Misc : op93898,g6g1011,870,,,10,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 16 11:57:41 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 16 10:05:37 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
05/16/16 17:57

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1788\
Data File : 4g68215.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 May 2016 10:06 am
Operator : dharas
Sample : op93870-mb1
Misc : op93870,g4g1788,1000,,,10,1
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 13 13:24:34 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Fri May 13 13:23:02 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
Internal Standards						
1) I 1-bromo-2...	1.800	2.062	410.9E6	374.3E6	50.000	50.000
25) I 1-bromo-2...	1.800	2.062	410.9E6	374.3E6	50.000	50.000
31) I 1-bromo-2...	1.800	2.062	410.9E6	374.3E6	50.000	50.000
System Monitoring Compounds						
2) SAB Tetrachlo...	2.590f	3.093	280.0E6	248.5E6	39.517m	37.693
Spiked Amount	40.000	Range	30 - 150	Recovery	= 98.79%	94.23%
24) SA Decachlor...	10.240	11.639	213.7E6	130.8E6	32.004	27.978
Spiked Amount	40.000			Recovery	= 80.01%	69.95%
Target Compounds						
SemiQuant Compounds - Not Calibrated on this Instrument						

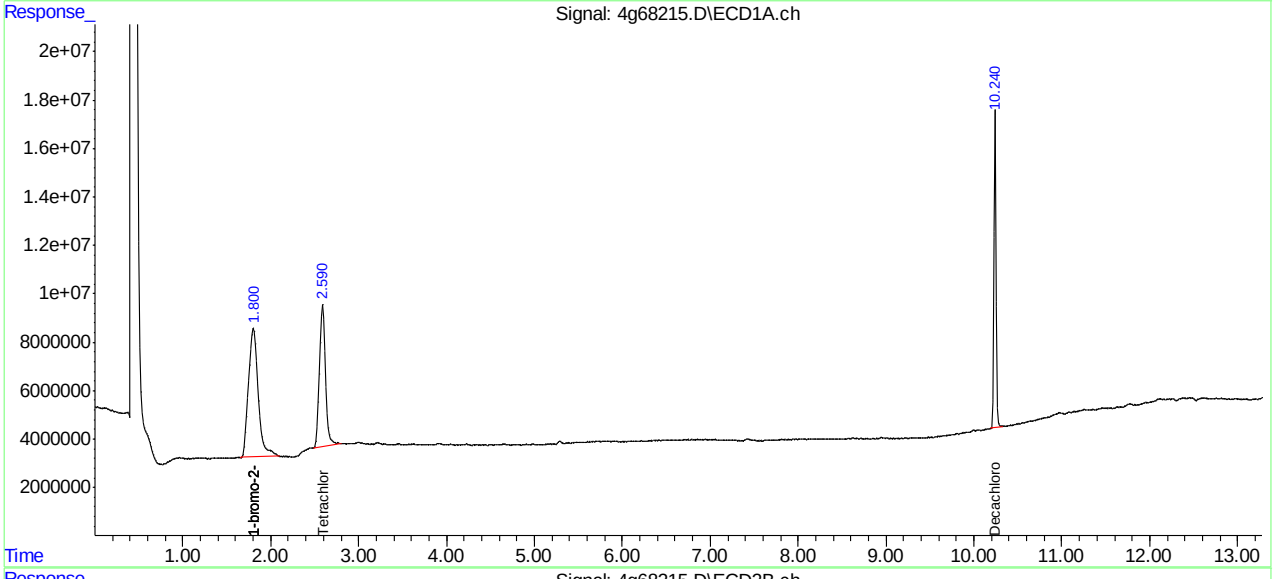
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

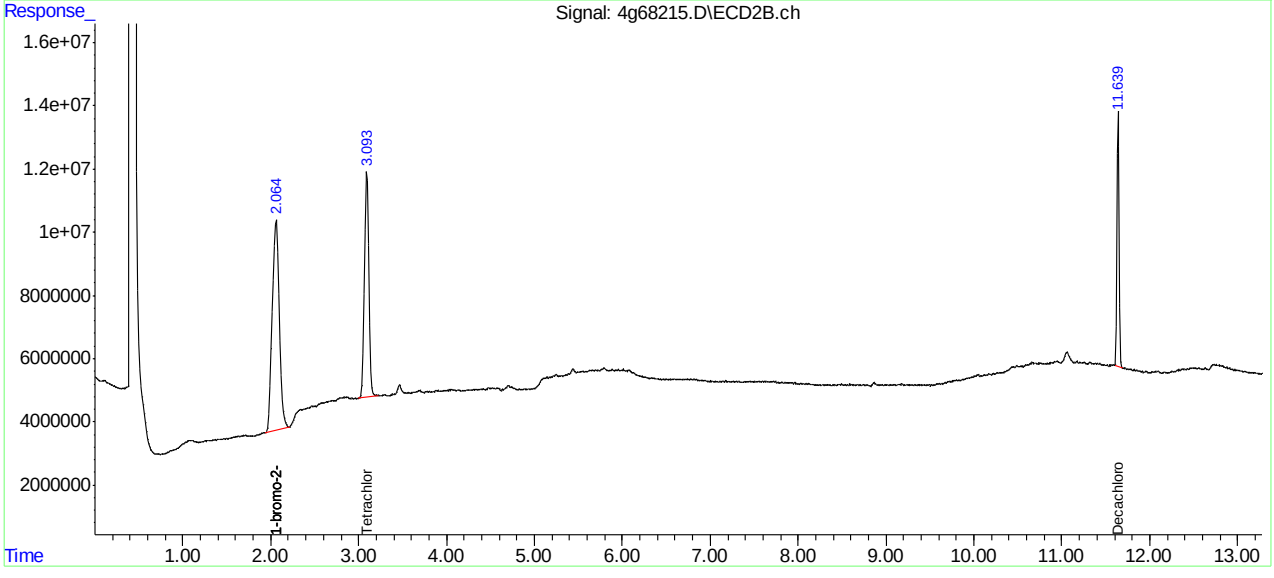
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1788\
Data File : 4g68215.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 May 2016 10:06 am
Operator : dharas
Sample : op93870-mb1
Misc : op93870,g4g1788,1000,,,10,1
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 13 13:24:34 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Fri May 13 13:23:02 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





SGS ACCUTEST JC20098

Manual Integration Approval Summary

Sample Number:	OP93870-MB1	**Method:**	SW846 8081B
Lab FileID:	4G68215.D	**Analyst approved:**	05/16/16 17:00 Dhara Saparia
Injection Time:	05/13/16 10:06	**Supervisor approved:**	05/16/16 17:57 Gwendolyn Burns

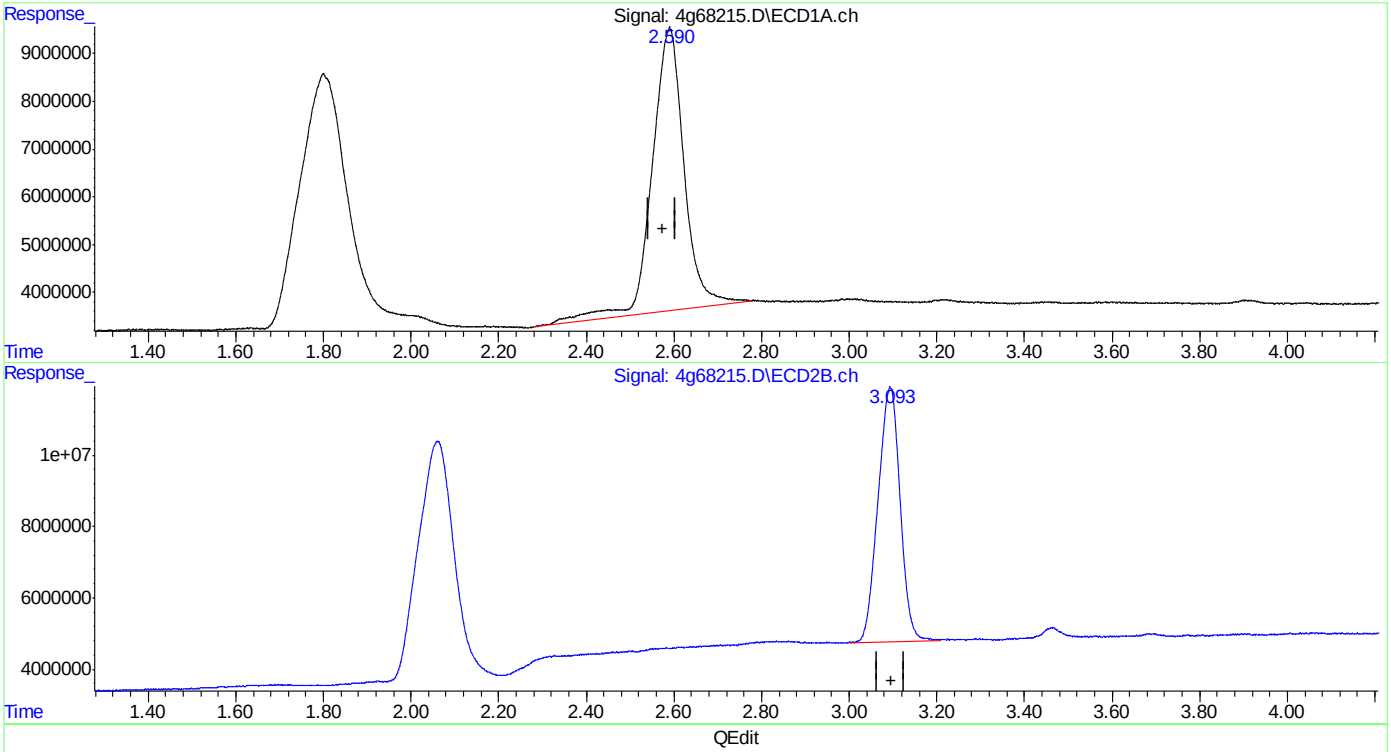
Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrachloro-m-xylene	877-09-8	1	2.59	Poor instrument integration

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\4G1788\
Data File : 4g68215.D
Signal(s) : Signal #1: ECD1A.ch  Signal #2: ECD2B.ch
Acq On    : 13 May 2016  10:06 am
Operator  : dharas
Sample    : op93870-mb1
Misc      : op93870,g4g1788,1000,,,10,1
ALS Vial  : 5   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 13 13:23:54 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title  : PEST/PCB
QLast Update : Fri May 13 13:23:02 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.     : 1ul/column
Signal #1 Phase : RTXCLP I          Signal #2 Phase: RTX-CLP II
Signal #1 Info  : 30mx.32mmx.32um   Signal #2 Info : 30m x .32mm x .25um
```



(2) Tetrachloro-m-xylene (SAB)

2.591min 42.703 PPB

response 302526251

(2) Tetrachloro-m-xylene #2 (SAB)

3.093min 37.693 PPB

response 248484582

(+) = Expected Retention Time

4PST1778.M Fri May 13 13:24:00 2016 RPT1

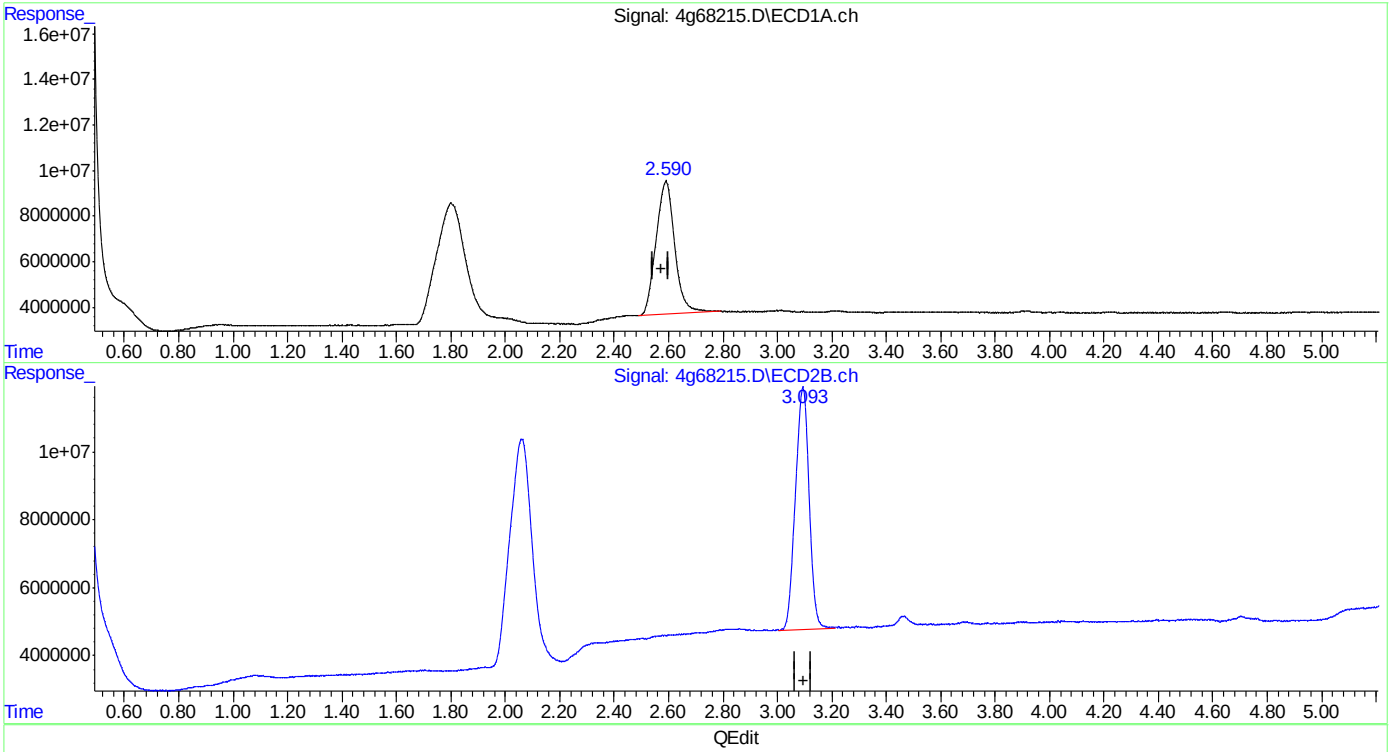
SGS ACCUTEST JC20098

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1788\
Data File : 4g68215.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 May 2016 10:06 am
Operator : dharas
Sample : op93870-mb1
Misc : op93870,g4g1788,1000,,,10,1
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 13 13:23:54 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Fri May 13 13:23:02 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



(2) Tetrachloro-m-xylene (SAB)
2.590min 39.517 PPB m
response 279954194

(2) Tetrachloro-m-xylene #2 (SAB)
3.093min 37.693 PPB
response 248484582

(+) = Expected Retention Time
4PST1778.M Fri May 13 13:24:07 2016 RPT1

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1011\
Data File : 6g35096a.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 May 2016 12:24 pm
Operator : dharas
Sample : op93898-mb1
Misc : op93898,g6g1011,1000,,,10,1
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 16 12:43:53 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 16 10:05:37 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
Internal Standards						
1) I 1-bromo-2...	1.296	1.566	128.9E6	51900154	50.000	50.000
25) I 1-bromo-2...	1.296	1.566	128.9E6	51900154	50.000	50.000
31) I 1-bromo-2...	1.296	1.566	128.9E6	51900154	50.000	50.000
System Monitoring Compounds						
2) SAB Tetrachlo...	1.970	2.457	86986474	33918180	36.823	36.172
Spiked Amount	40.000	Range	30 - 150	Recovery	= 92.06%	90.43%
24) SAB Decachlor...	9.886	11.732	71257759	26339537	34.690	37.360
Spiked Amount	40.000			Recovery	= 86.72%	93.40%

Target Compounds

SemiQuant Compounds - Not Calibrated on this Instrument

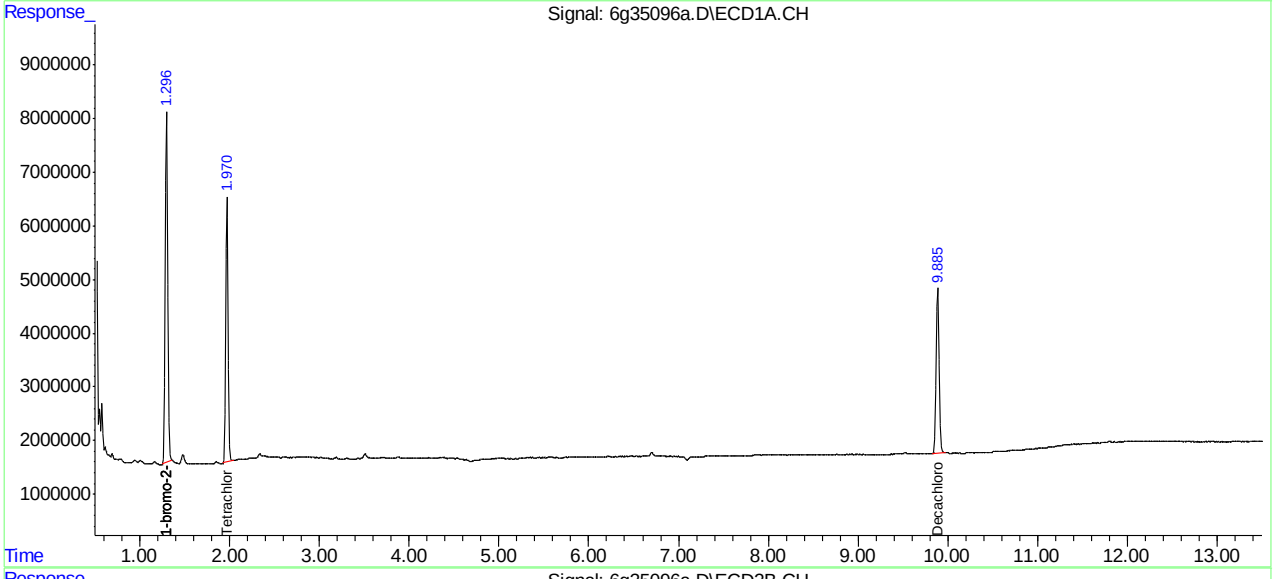
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

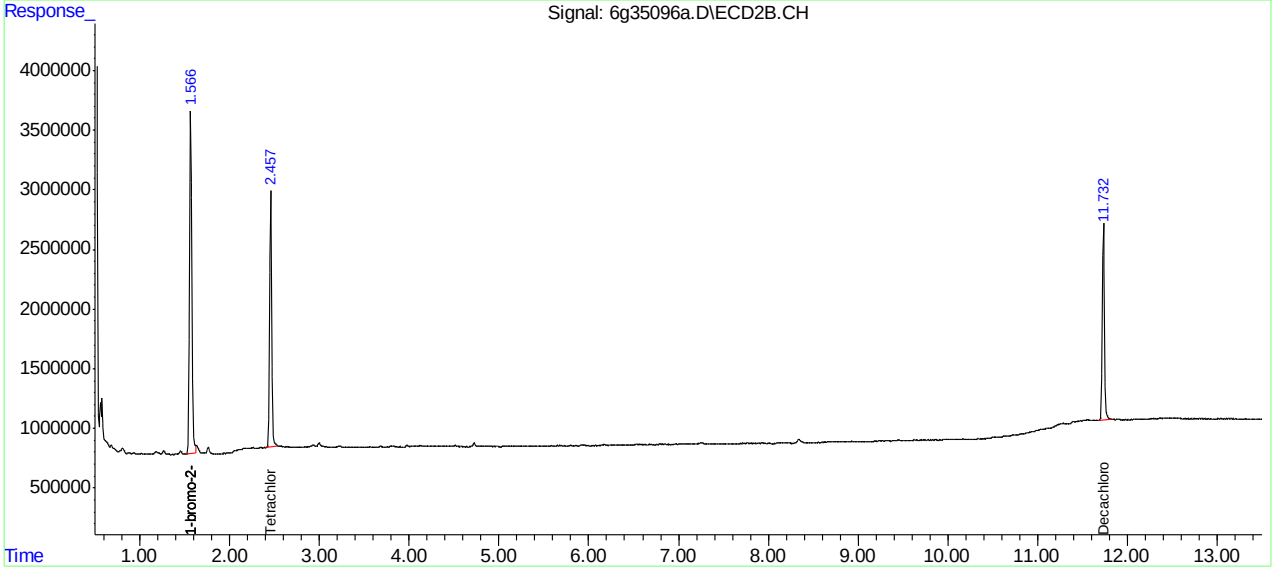
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1011\
Data File : 6g35096a.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 May 2016 12:24 pm
Operator : dharas
Sample : op93898-mb1
Misc : op93898,g6g1011,1000,,,10,1
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 16 12:43:53 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 16 10:05:37 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





SGS ACCUTEST JC20098

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
05/18/16 15:17

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1010\
Data File : 6g35053.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 May 2016 1:49 pm
Operator : dharas
Sample : op93870-bs1
Misc : op93870,g6g1010,1000,,,10,1
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 13 14:04:17 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Fri May 13 12:22:26 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.294	1.565	141.2E6	52615384	50.000	50.000
25) I	1-bromo-2...	1.294	1.565	141.2E6	52615384	50.000	50.000
31) I	1-bromo-2...	1.294	1.565	141.2E6	52615384	50.000	50.000
	System Monitoring Compounds						
2)	SAB Tetrachlo...	1.968	2.458	112.8E6	37457584	43.606	39.404
	Spiked Amount	40.000	Range	30 - 150	Recovery	= 109.02%	98.51%
24)	SAB Decachlor...	9.886	11.735	68998370	23378852	30.670	32.710
	Spiked Amount	40.000			Recovery	= 76.68%	81.77%
	Target Compounds						
3) A	alpha-BHC	2.480	3.158	72942700	26130769	21.870	21.099
4) MA	gamma-BHC	2.794	3.609	75735121	26904506	24.390	23.202
5) MA	Heptachlor	3.319	4.212	81878864	28307244	26.268	24.155
6) B	beta-BHC	2.876	3.702	42342626	14718010	27.780	26.051
7) B	delta-BHC	3.070	4.117	4064440	1704641	1.404	1.577m
8) MB	Aldrin	3.670	4.686	73430188	26809959	25.507	24.603
9) B	Heptachlo...	4.415	5.565	78629673	27819664	29.173	27.391
10) B	gamma-Chl...	4.590	5.870	75987144	26583885	28.015	26.774
11) B	alpha-Chl...	4.771	6.112	73763888	26291984	27.402	26.654
12) A	Endosulfan I	4.952	6.211	76535092	25478794	28.799	26.587
13) B	4,4'-DDE	4.904	6.413	57877828	20381192	25.946	23.961
14) MA	Dieldrin	5.295	6.680	74397120	26176780	28.312	26.742
15) MA	Endrin	5.635	7.220	70299921	24369696	29.492	27.401
16) A	4,4'-DDD	5.792	7.446	50747978	19672001	26.910	26.798
17) B	Endosulfa...	5.976	7.605	66248955	24320589	28.168	27.959
18) MA	4,4'-DDT	6.240	8.023	51286682	16481054	25.002	24.736
19) B	Endrin Al...	6.647	8.233	53873032	18443616	28.103	26.151
20) B	Endosulfa...	7.381	8.747	38665700	13379878	18.720	17.479
21) A	Methoxychlor	7.106	9.401	31824296	9616711	25.885	26.195
23) B	Endrin Ke...	7.856	9.794	66097712	22945429	26.911	25.646

SemiQuant Compounds - Not Calibrated on this Instrument

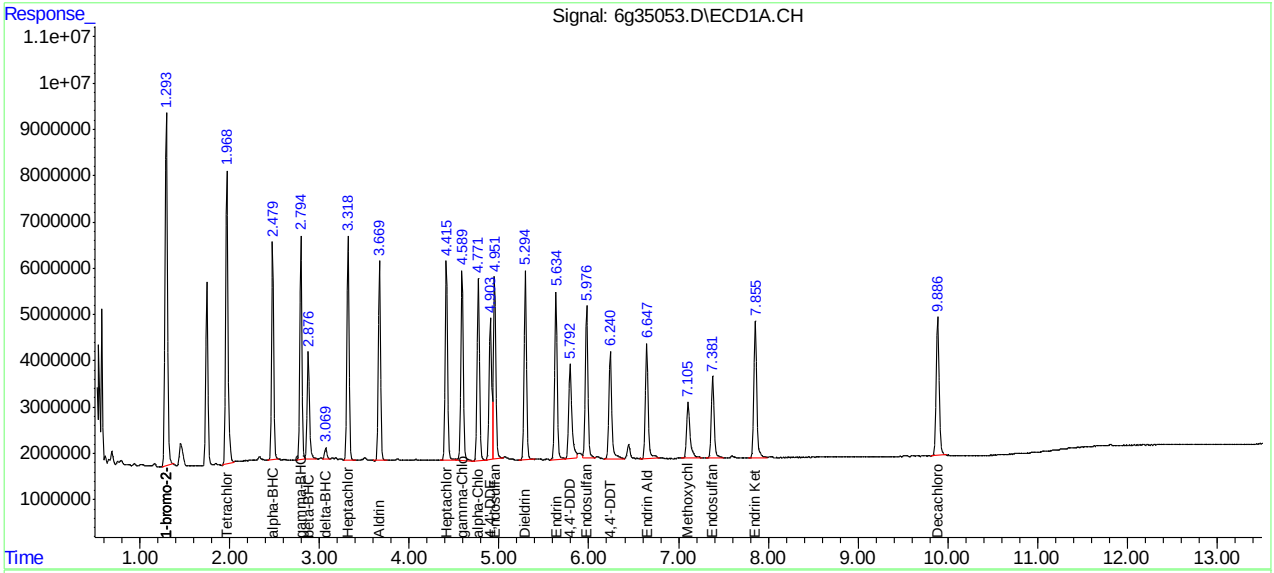
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

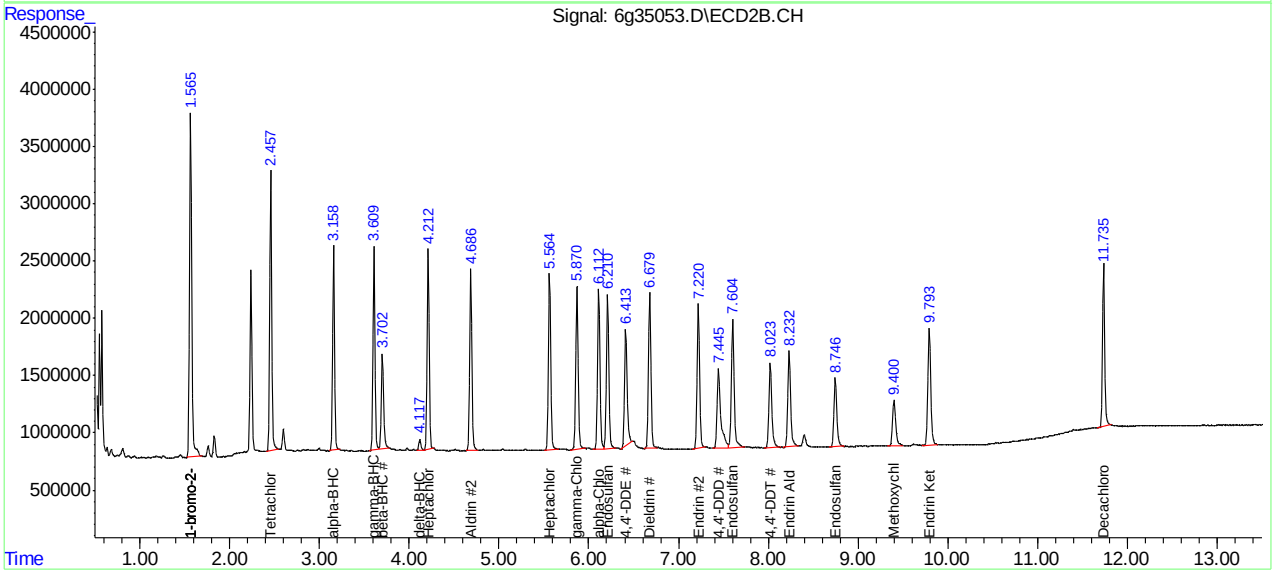
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1010\
Data File : 6g35053.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 May 2016 1:49 pm
Operator : dharas
Sample : op93870-bs1
Misc : op93870,g6g1010,1000,,,10,1
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 13 14:04:17 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Fri May 13 12:22:26 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





Manual Integration Approval Summary

Sample Number:	OP93870-BS1	**Method:**	SW846 8081B
Lab FileID:	6G35053.D	**Analyst approved:**	05/13/16 14:04 Dhara Saparia
Injection Time:	05/13/16 13:49	**Supervisor approved:**	05/18/16 15:17 Gwendolyn Burns

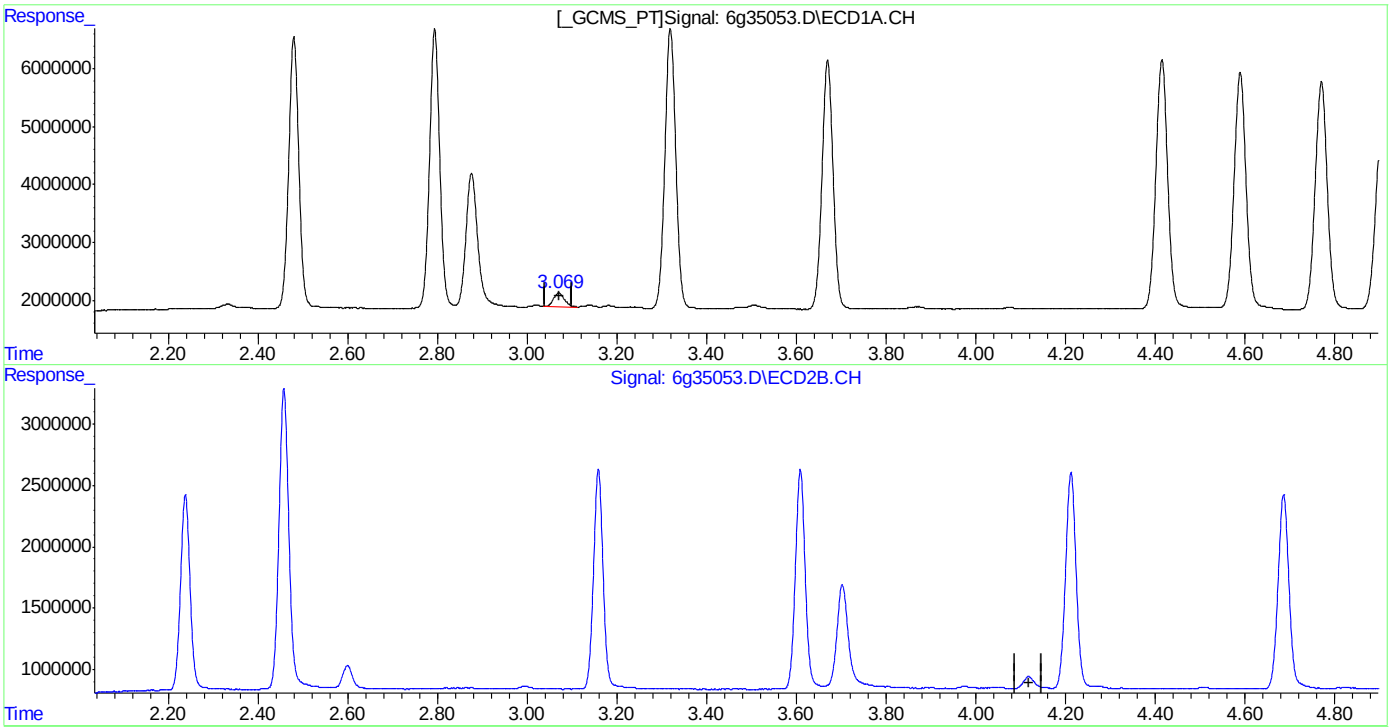
Parameter	CAS	Sig#	R.T. (min.)	Reason
delta-BHC	319-86-8	2	4.12	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1010\
Data File : 6g35053.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 May 2016 1:49 pm
Operator : dharas
Sample : op93870-bs1
Misc : op93870,g6g1010,1000,,,10,1
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 13 14:03:41 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Fri May 13 12:22:26 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um



QEdit

(7) delta-BHC (B)
3.070min 1.404PPB
response 4064440

(7) delta-BHC #2 (B)
0.000min 0.000PPB
response 0

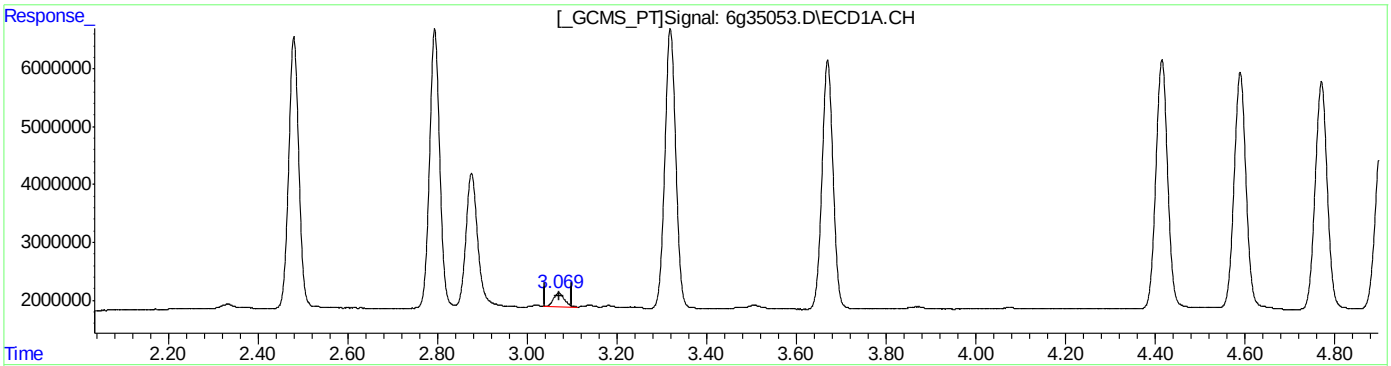
(+) = Expected Retention Time
6PST987.M Fri May 13 14:03:51 2016

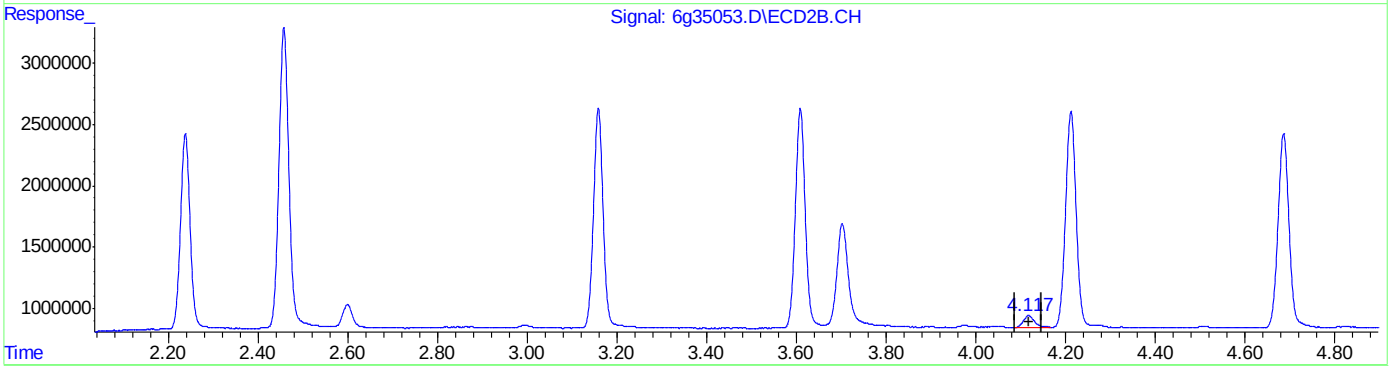
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1010\
Data File : 6g35053.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 May 2016 1:49 pm
Operator : dharas
Sample : op93870-bs1
Misc : op93870,g6g1010,1000,,,10,1
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 13 14:03:41 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Fri May 13 12:22:26 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





QEdit

(7) delta-BHC (B)
3.070min 1.404PPB
response 4064440

(7) delta-BHC #2 (B)
4.117min 1.577PPB m
response 1704641

(+) = Expected Retention Time
6PST987.M Fri May 13 14:03:58 2016

SGS ACCUTEST JC20098

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
05/16/16 13:43

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1011\
Data File : 6g35090.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 May 2016 10:29 am
Operator : dharas
Sample : op93898-bs1
Misc : op93898,g6g1011,1000,,,10,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 16 12:02:05 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 16 10:05:37 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB	
	Internal Standards							
1) I	1-bromo-2...	1.299	1.567	129.4E6	53454824	50.000	50.000	
25) I	1-bromo-2...	1.299	1.567	129.4E6	53454824	50.000	50.000	
31) I	1-bromo-2...	1.299	1.567	129.4E6	53454824	50.000	50.000	
	System Monitoring Compounds							
2) SAB	Tetrachlo...	1.971	2.458	96874482	37801350	40.841	39.141	
Spiked Amount		40.000 Range	30 - 150	Recovery	=	102.10%	97.85%	
24) SAB	Decachlor...	9.887	11.734	58379178	21726268	28.305	29.920	
Spiked Amount		40.000		Recovery	=	70.76%	74.80%	
	Target Compounds							
3) A	alpha-BHC	2.482	3.158	82442794	32280976	26.961	25.656	
4) MA	gamma-BHC	2.796	3.607	76091467	30009302	26.729	25.473	
5) MA	Heptachlor	3.321	4.211	69625582	27526872	24.364	23.120	
6) B	beta-BHC	2.877	3.701	38207670	14538492	27.342	25.329	
7) B	delta-BHC	3.070	4.115	67784369	27119742	25.549	24.703	
8) MB	Aldrin	3.671	4.686	64623484	27493976	24.486	24.834	
9) B	Heptachlo...	4.416	5.562	65145128	26274731	26.364	25.463	
10) B	gamma-Chl...	4.591	5.868	61034434	25395120	24.545	25.175	
11) B	alpha-Chl...	4.771	6.111	60785320	24815705	24.630	24.762	
12) A	Endosulfan I	4.954	6.209	61598046	24083633	25.282	24.737	
13) B	4,4'-DDE	4.903	6.409	51871502	22195678	25.364	25.684	
14) MA	Dieldrin	5.296	6.678	62520766	26874917	25.952	27.024	
15) MA	Endrin	5.635	7.221	86616697	24113825	39.635m	26.688	#
16) A	4,4'-DDD	5.787	7.442	44745948	19644349	25.880m	26.340	
17) B	Endosulfa...	5.977	7.603	57833238	23410117	26.822m	26.490	
18) MA	4,4'-DDT	6.238	8.020	45576961	17223269	24.235	25.444	
19) B	Endrin Al...	6.646	8.231	50020641	19013739	28.462	26.536	
20) B	Endosulfa...	7.382	8.746	53645584	20751163	28.330	26.683	
21) A	Methoxychlor	7.103	9.397	29073877	9571928	25.794	25.663	
23) B	Endrin Ke...	7.855	9.792	62265607	24365584	27.651	26.805	

SemiQuant Compounds - Not Calibrated on this Instrument

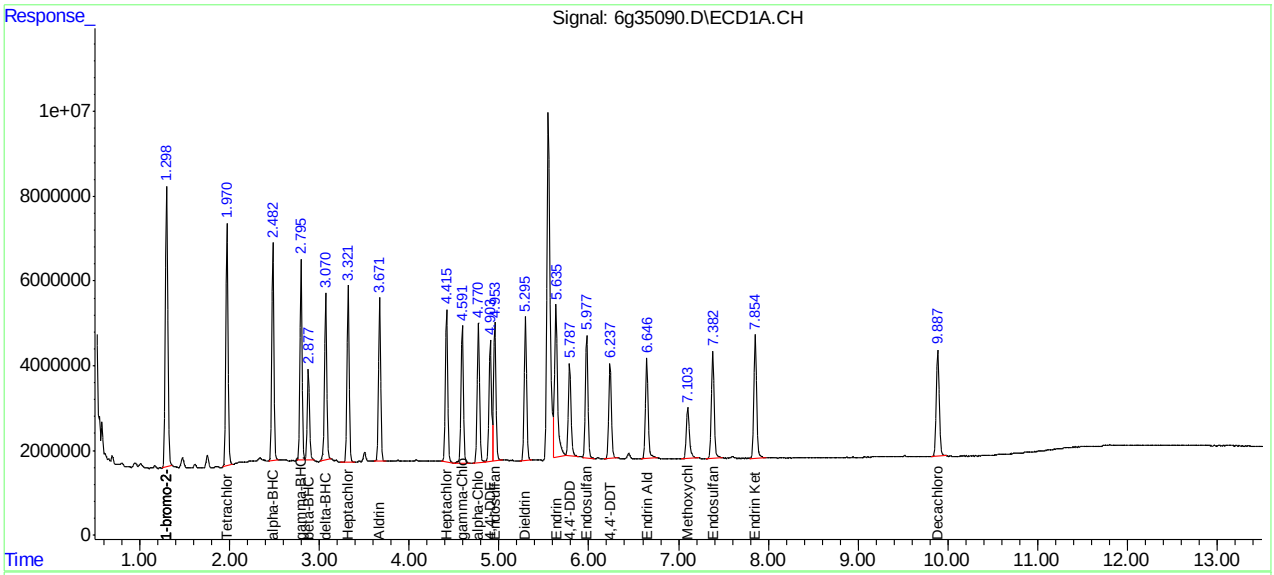
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

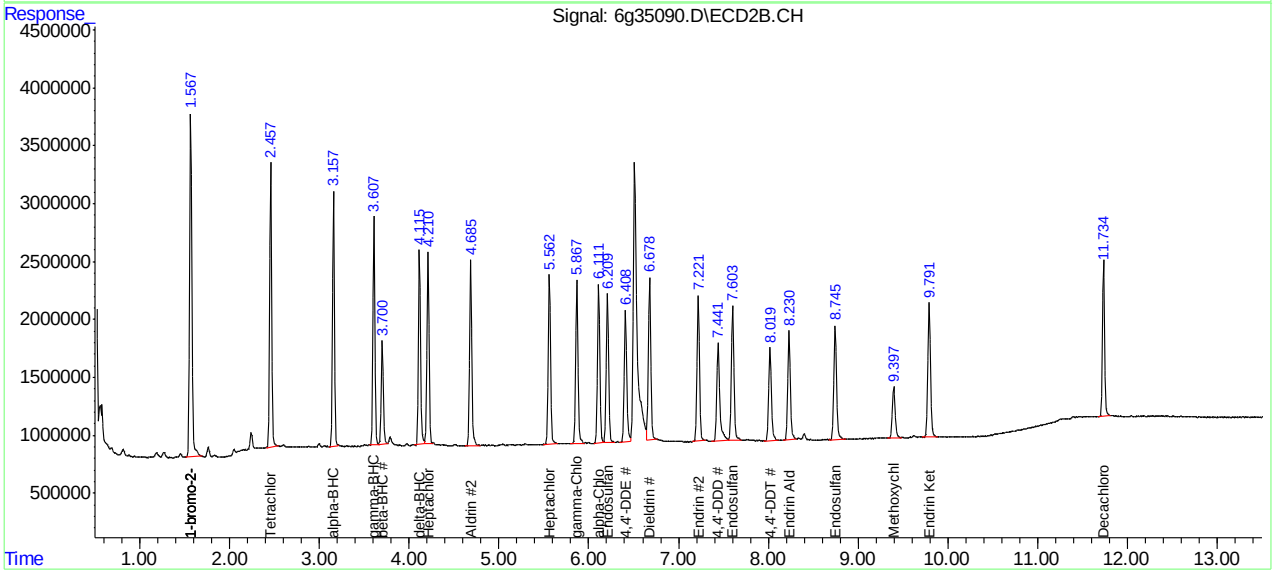
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1011\
Data File : 6g35090.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 May 2016 10:29 am
Operator : dharas
Sample : op93898-bs1
Misc : op93898,g6g1011,1000,,,10,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 16 12:02:05 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 16 10:05:37 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





Manual Integration Approval Summary

Sample Number:	OP93898-BS1	**Method:**	SW846 8081B
Lab FileID:	6G35090.D	**Analyst approved:**	05/16/16 12:52 Dhara Saparia
Injection Time:	05/16/16 10:29	**Supervisor approved:**	05/16/16 13:43 Gwendolyn Burns

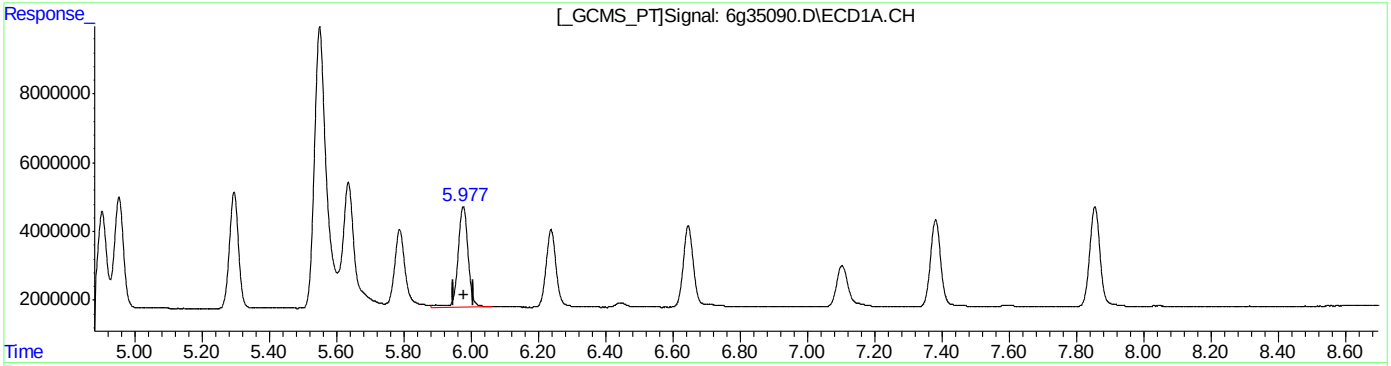
Parameter	CAS	Sig#	R.T. (min.)	Reason
Endrin	72-20-8	1	5.63	Poor instrument integration
4,4'-DDD	72-54-8	1	5.79	Poor instrument integration
Endosulfan-II	33213-65-9	1	5.98	Poor instrument integration

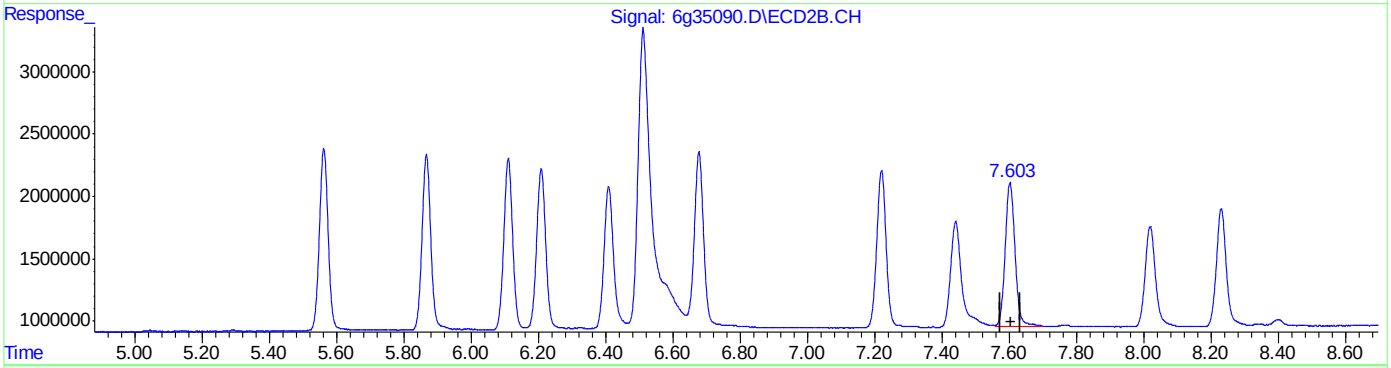
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1011\
Data File : 6g35090.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 May 2016 10:29 am
Operator : dharas
Sample : op93898-bs1
Misc : op93898,g6g1011,1000,,,10,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 16 12:00:11 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 16 10:05:37 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





QEdit

(17) Endosulfan II (B)
5.977min 28.132PPB
response 60657810

(17) Endosulfan II #2 (B)
7.603min 26.490PPB
response 23410117

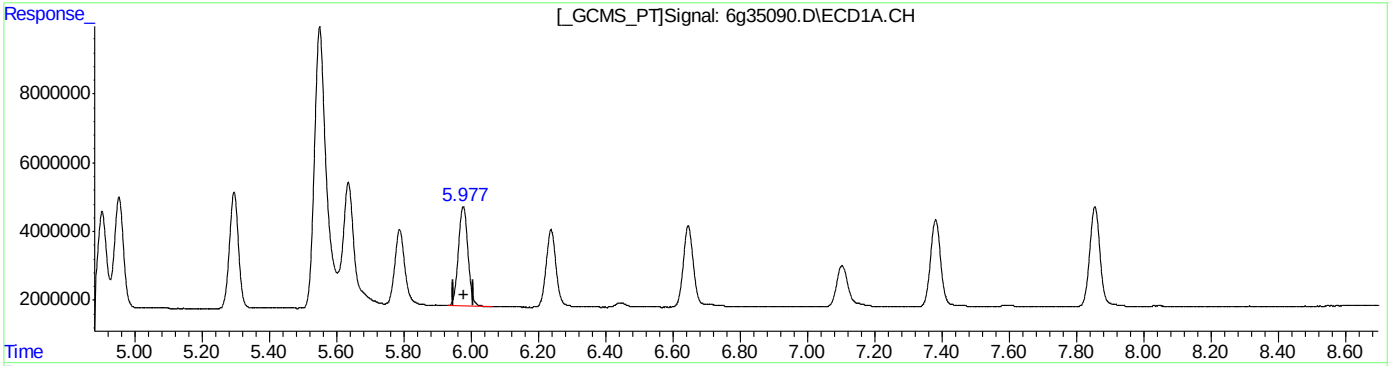
(+) = Expected Retention Time

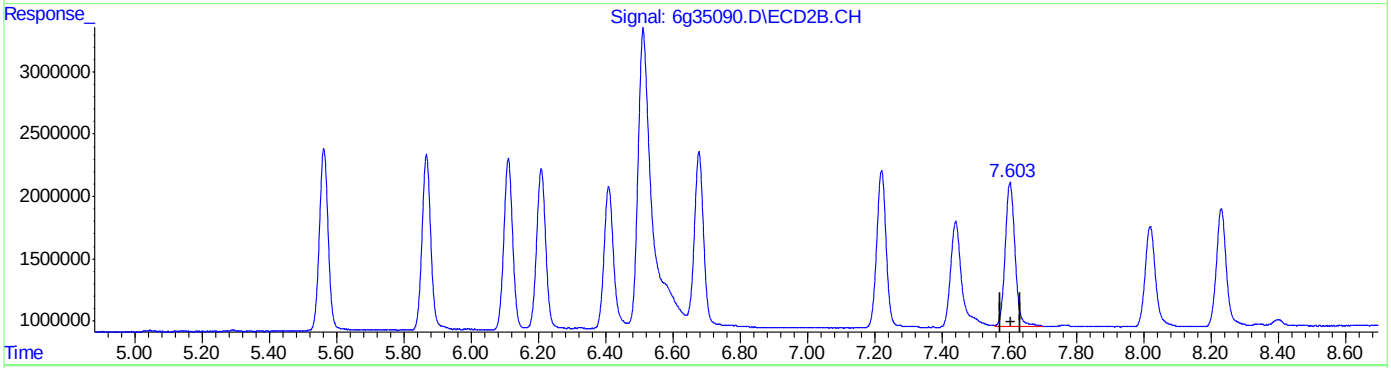
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1011\
Data File : 6g35090.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 May 2016 10:29 am
Operator : dharas
Sample : op93898-bs1
Misc : op93898,g6g1011,1000,,,10,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 16 12:00:11 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 16 10:05:37 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





QEdit

(17) Endosulfan II (B)
5.977min 26.822PPB m
response 57833238

(17) Endosulfan II #2 (B)
7.603min 26.490PPB
response 23410117

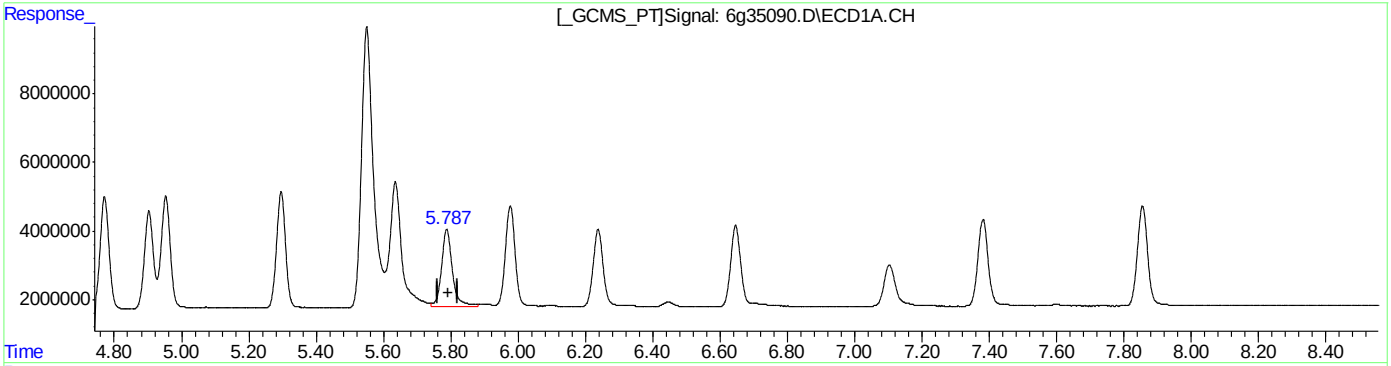
(+) = Expected Retention Time

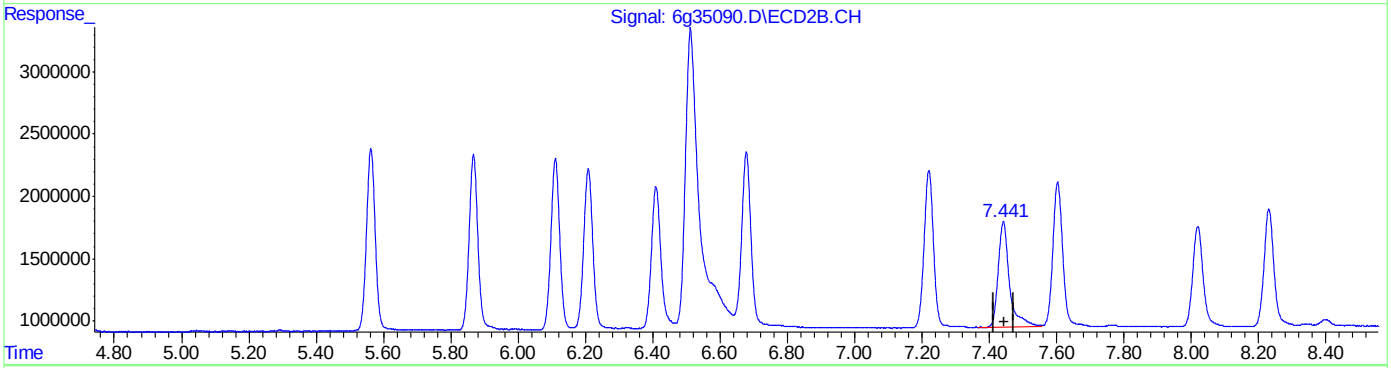
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1011\
Data File : 6g35090.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 May 2016 10:29 am
Operator : dharas
Sample : op93898-bs1
Misc : op93898,g6g1011,1000,,,10,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 16 12:00:11 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 16 10:05:37 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





QEdit

(16) 4,4'-DDD (A)
5.788min 29.536PPB
response 51066187

(16) 4,4'-DDD #2 (A)
7.442min 26.340PPB
response 19644349

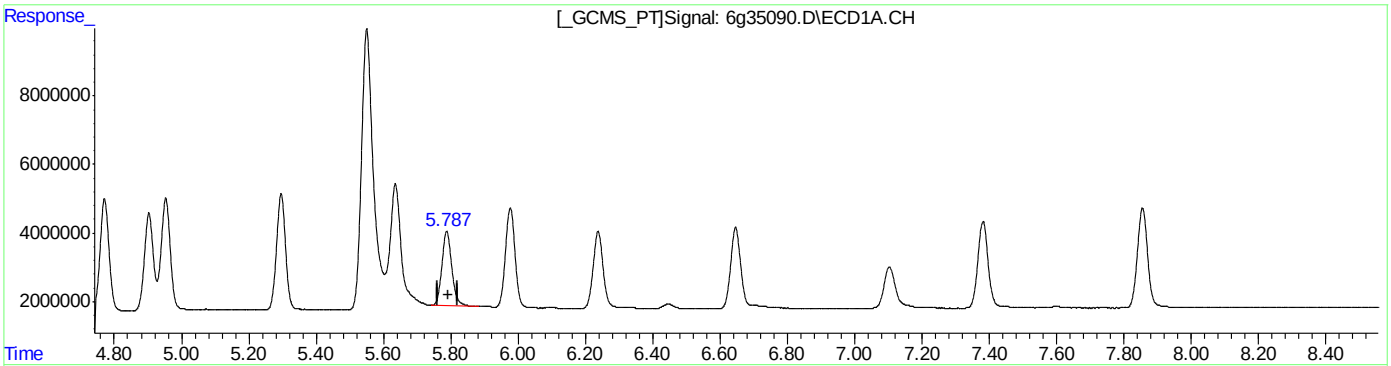
(+) = Expected Retention Time

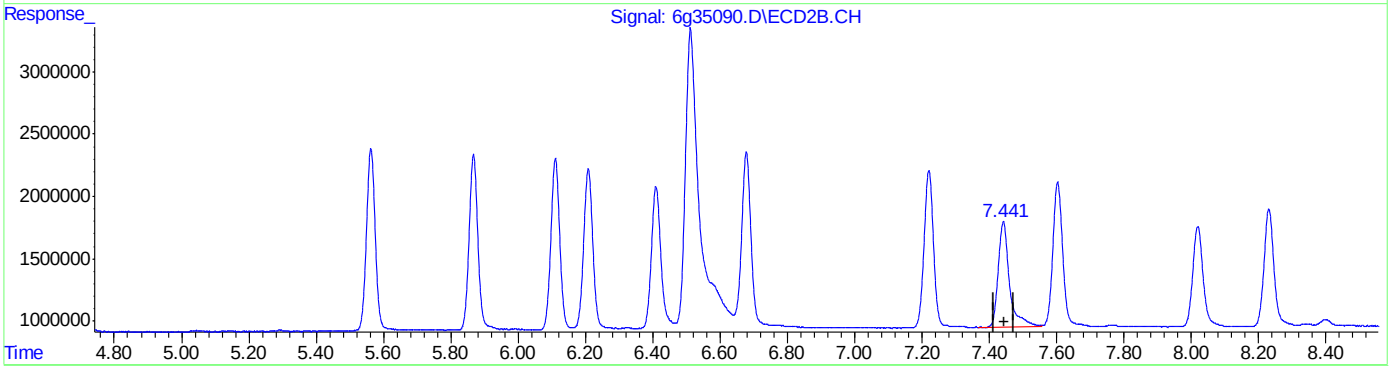
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1011\
Data File : 6g35090.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 May 2016 10:29 am
Operator : dharas
Sample : op93898-bs1
Misc : op93898,g6g1011,1000,,,10,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 16 12:00:11 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 16 10:05:37 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





QEdit

(16) 4,4'-DDD (A)
5.787min 25.880PPB m
response 44745948

(16) 4,4'-DDD #2 (A)
7.442min 26.340PPB
response 19644349

(+) = Expected Retention Time

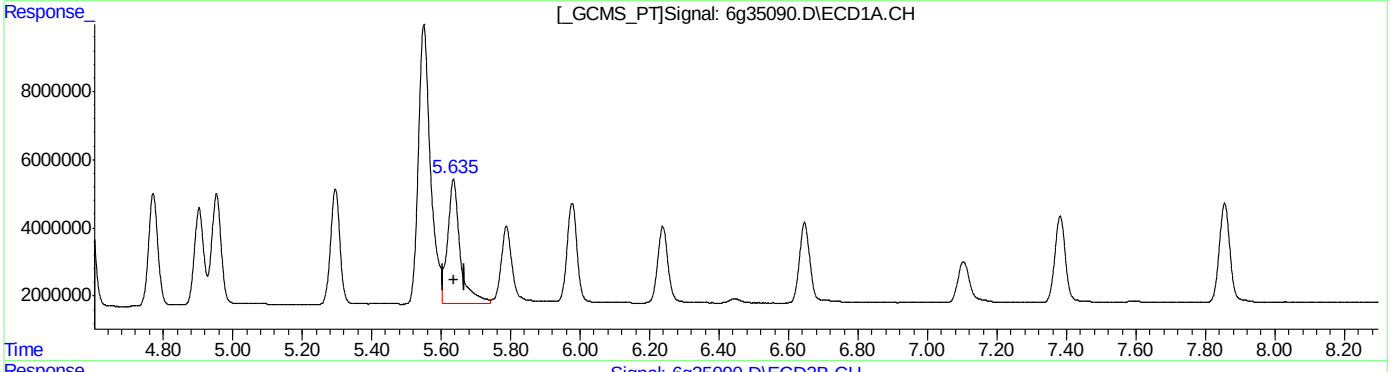
SGS ACCUTEST JC20098

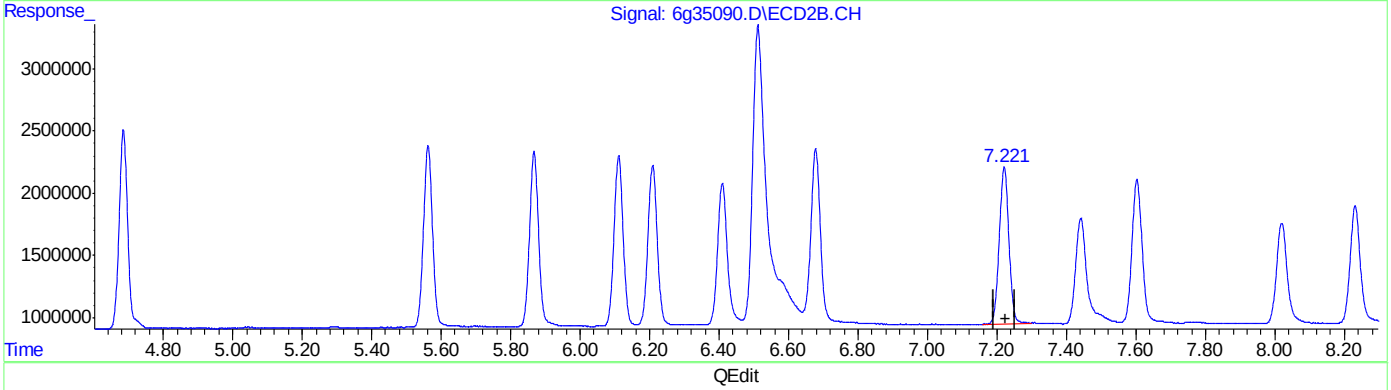
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1011\
Data File : 6g35090.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 May 2016 10:29 am
Operator : dharas
Sample : op93898-bs1
Misc : op93898,g6g1011,1000,,,10,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 16 12:00:11 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 16 10:05:37 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





QEdit

(15) Endrin (MA)
5.635min 42.243PPB
response 92317959

(15) Endrin #2 (MA)
7.221min 26.688PPB
response 24113825

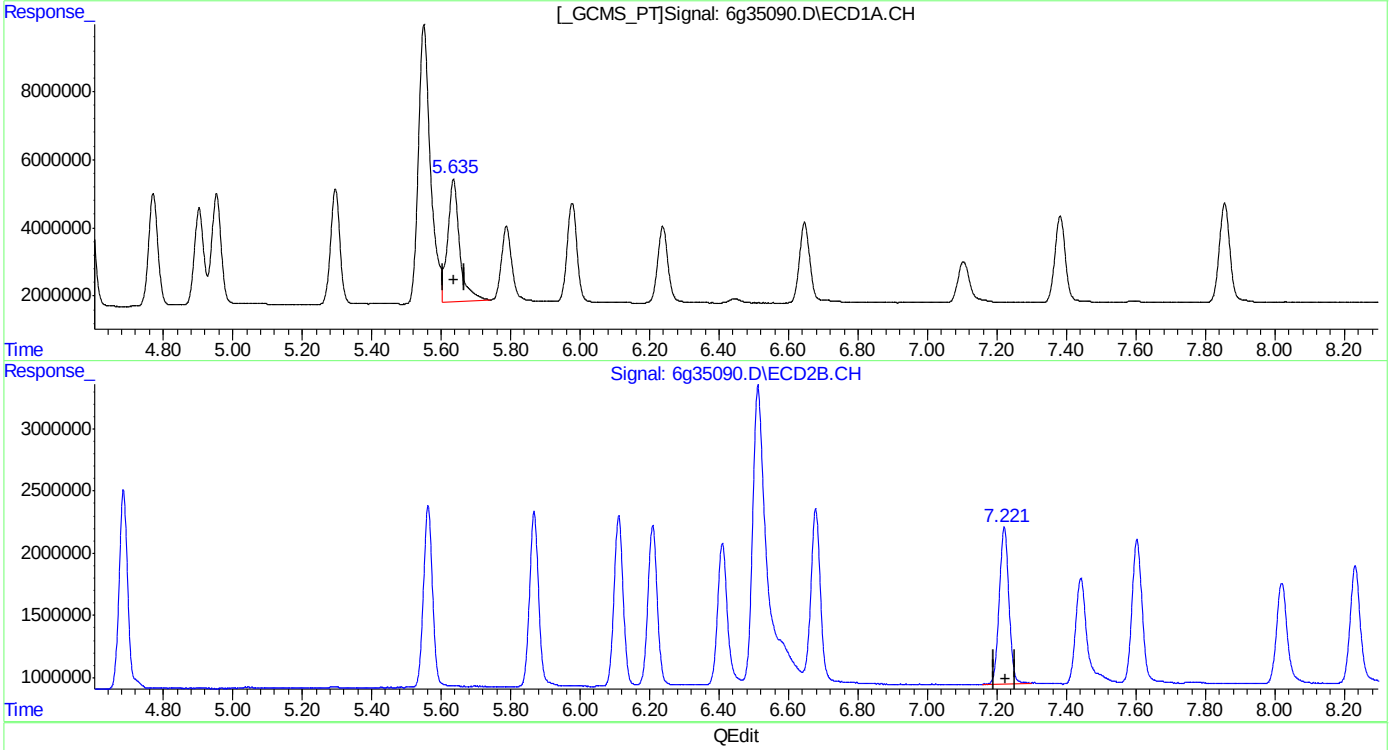
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1011\
Data File : 6g35090.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 May 2016 10:29 am
Operator : dharas
Sample : op93898-bs1
Misc : op93898,g6g1011,1000,,,10,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 16 12:00:11 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 16 10:05:37 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um



QEdit

(15) Endrin (MA)
5.635min 39.635PPB m
response 86616697

(15) Endrin #2 (MA)
7.221min 26.688PPB
response 24113825

(+) = Expected Retention Time
6PST987.M Mon May 16 12:02:10 2016

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 05/31/16 14:58

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1788\
Data File : 4g68220.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 May 2016 11:21 am
Operator : dharas
Sample : op93870-ms
Misc : op93870,g4g1788,500,,,10,1
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 31 14:25:30 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 31 14:24:34 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB	
	Internal Standards							
1) I	1-bromo-2...	1.792	2.058	511.0E6	404.0E6	50.000	50.000	
25) I	1-bromo-2...	1.792	2.058	511.0E6	404.0E6	50.000	50.000	
31) I	1-bromo-2...	1.792	2.058	511.0E6	404.0E6	50.000	50.000	
	System Monitoring Compounds							
2) SAB	Tetrachlo...	2.582	3.092	314.8E6	254.7E6	35.732	35.796	
	Spiked Amount	40.000	Range	30 - 150	Recovery	= 89.33%	89.49%	
24) SA	Decachlor...	10.234	11.636	277.9E6	167.4E6	33.466	33.168	
	Spiked Amount	40.000			Recovery	= 83.67%	82.92%	
	Target Compounds							
3) A	alpha-BHC	3.142	3.854	201.3E6	183.8E6	16.692	17.670	
4) MA	gamma-BHC	3.489	4.331	190.7E6	183.8E6	18.090	19.876	
5) MA	Heptachlor	4.045	4.955	185.3E6	205.5E6	18.720	21.575	
6) B	beta-BHC	3.604	4.430	107.6E6	99783932	21.305	23.837	
7) B	delta-BHC	3.824	4.857	10255260	10636309	1.068m	1.233	
8) MB	Aldrin	4.419	5.441	199.9E6	200.2E6	19.801	21.343	
9) B	Heptachlo...	5.182	6.303	193.0E6	193.4E6	21.393	22.826	
10) B	gamma-Chl...	5.366	6.601	191.5E6	186.1E6	21.223	22.728	
11) B	alpha-Chl...	5.546	6.832	193.9E6	183.1E6	19.943	22.272	
12) A	Endosulfan I	5.729	6.938	230.4E6	177.9E6	23.037	22.658	
13) B	4,4'-DDE	5.682	7.092	161.1E6	196.8E6	17.868	23.998	#
14) MA	Dieldrin	6.068	7.385	207.3E6	194.4E6	21.857	23.739	
15) MA	Endrin	6.407	7.905	195.7E6	179.0E6	21.674	24.528	
16) A	4,4'-DDD	6.567	8.067	150.7E6	150.4E6	19.722	22.697	
17) B	Endosulfa...	6.748	8.263	200.4E6	169.8E6	23.069	23.532	
18) MA	4,4'-DDT	6.985	8.609	87574448	131.5E6	16.686	22.709	#
19) B	Endrin Al...	7.385	8.840	165.2E6	136.3E6	22.529	24.863	
20) B	Endosulfa...	8.078	9.316	111.6E6	94846282	14.018	15.707	
21) A	Methoxychlor	7.800	9.822	63479454	73845312	18.646	23.461	#
23) B	Endrin Ke...	8.540	10.180	205.2E6	161.5E6	22.278	24.358	

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

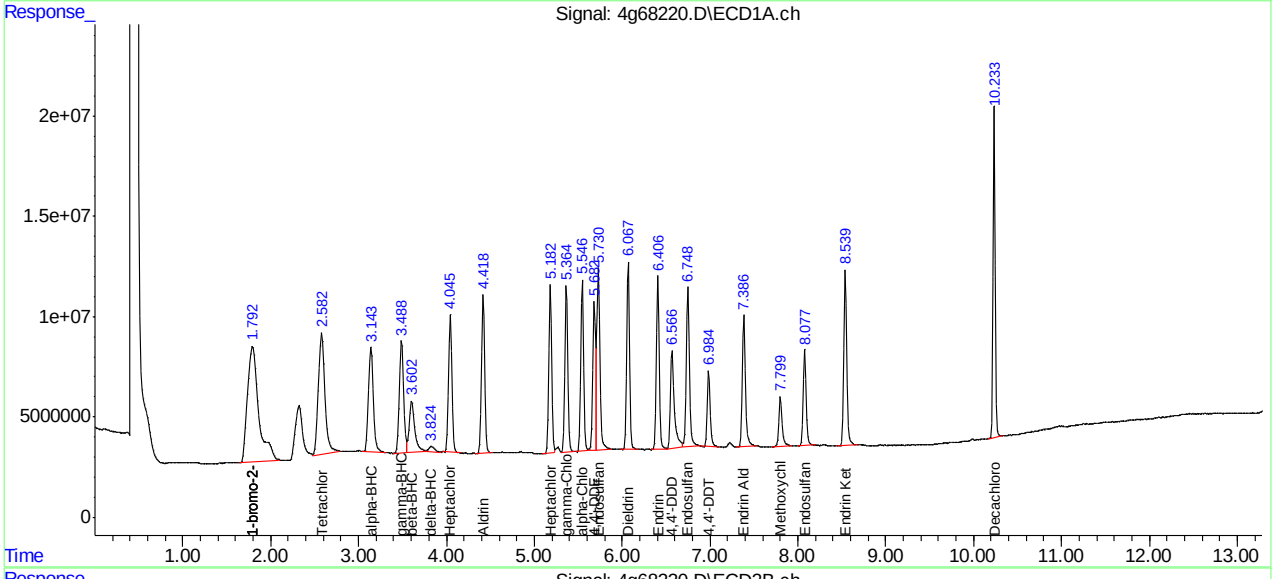
SGS ACCUTEST JC20098

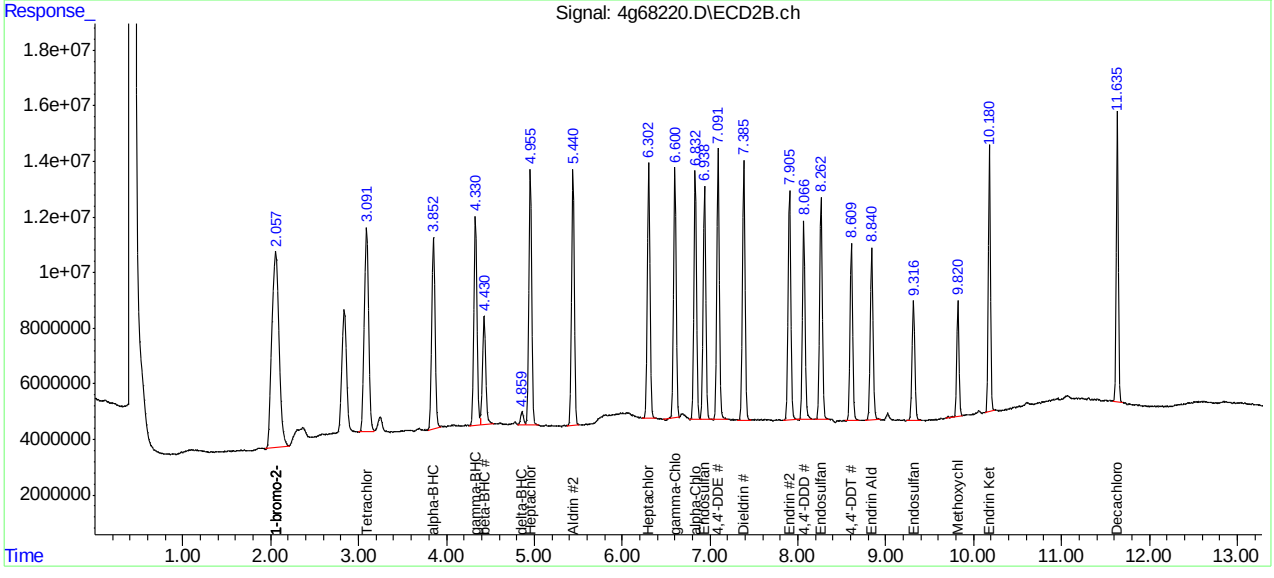
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1788\
Data File : 4g68220.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 May 2016 11:21 am
Operator : dharas
Sample : op93870-ms
Misc : op93870,g4g1788,500,,,10,1
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 31 14:25:30 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 31 14:24:34 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





Manual Integration Approval Summary

Sample Number:	OP93870-MS	**Method:**	SW846 8081B
Lab FileID:	4G68220.D	**Analyst approved:**	05/31/16 14:33 Joseph Ravino
Injection Time:	05/13/16 11:21	**Supervisor approved:**	05/31/16 14:58 Gwendolyn Burns

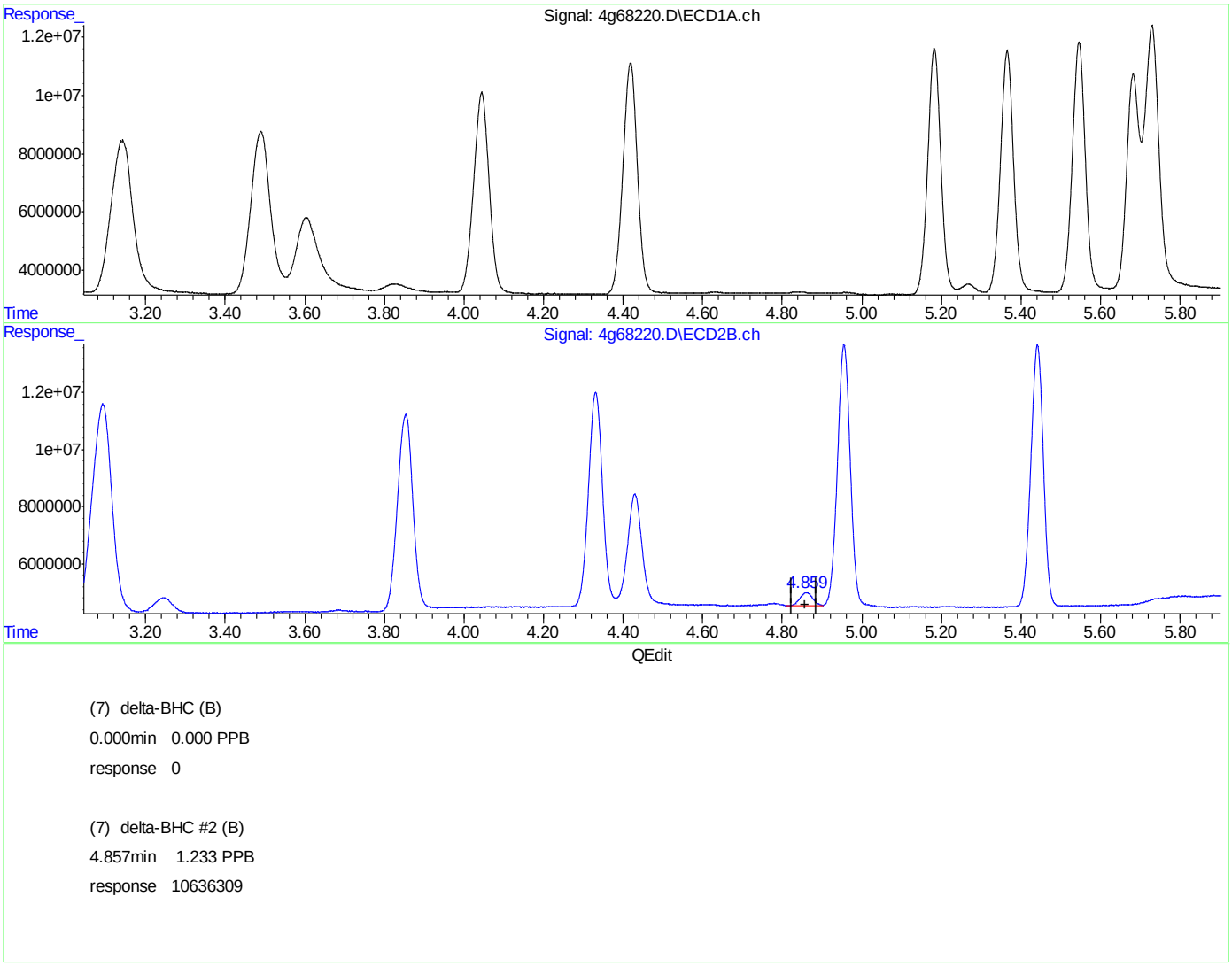
Parameter	CAS	Sig#	R.T. (min.)	Reason
delta-BHC	319-86-8	1	3.82	Poorly defined baseline

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1788\
Data File : 4g68220.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 May 2016 11:21 am
Operator : dharas
Sample : op93870-ms
Misc : op93870,g4g1788,500,,,10,1
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 31 14:24:39 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 31 14:24:34 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



(7) delta-BHC (B)
0.000min 0.000 PPB
response 0

(7) delta-BHC #2 (B)
4.857min 1.233 PPB
response 10636309

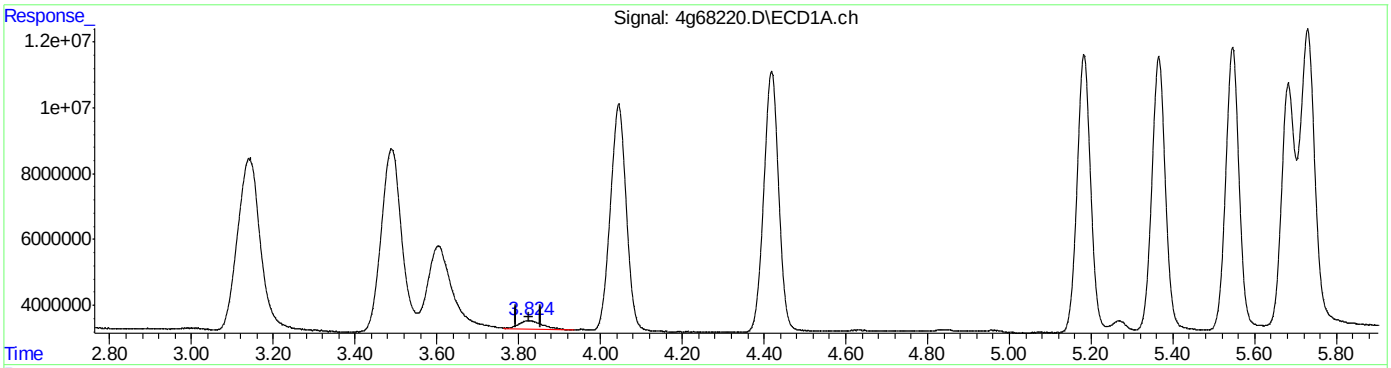
(+) = Expected Retention Time
4PST1778.M Tue May 31 14:25:03 2016 RPT1

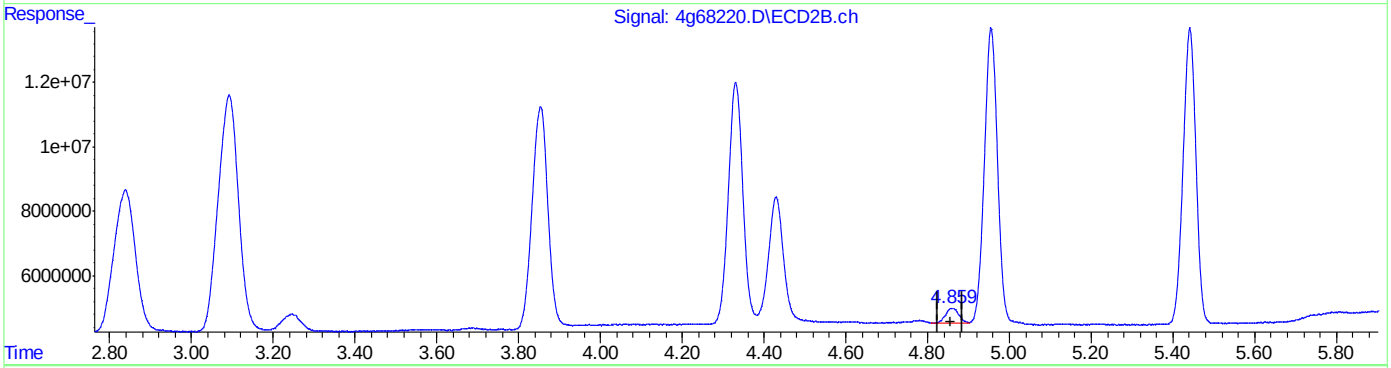
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1788\
Data File : 4g68220.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 May 2016 11:21 am
Operator : dharas
Sample : op93870-ms
Misc : op93870,g4g1788,500,,,10,1
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 31 14:24:39 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 31 14:24:34 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(7) delta-BHC (B)
3.824min 1.068 PPB m
response 10255260

(7) delta-BHC #2 (B)
4.857min 1.233 PPB
response 10636309

(+) = Expected Retention Time
4PST1778.M Tue May 31 14:25:14 2016 RPT1

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 05/31/16 14:58

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1788\
Data File : 4g68221.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 May 2016 11:37 am
Operator : dharas
Sample : op93870-msd
Misc : op93870,g4g1788,500,,,10,1
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 31 14:26:08 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 31 14:24:34 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB	
	Internal Standards							
1) I	1-bromo-2...	1.803	2.069	484.8E6	387.1E6	50.000	50.000	
25) I	1-bromo-2...	1.803	2.069	484.8E6	387.1E6	50.000	50.000	
31) I	1-bromo-2...	1.803	2.069	484.8E6	387.1E6	50.000	50.000	
	System Monitoring Compounds							
2) SAB	Tetrachlo...	2.586	3.097	321.0E6	258.8E6	38.404	37.958	
Spiked Amount		40.000	Range	30 - 150	Recovery	=	96.01%	94.89%
24) SA	Decachlor...	10.233	11.635	291.3E6	176.3E6	36.979	36.471	
Spiked Amount		40.000			Recovery	=	92.45%	91.18%
	Target Compounds							
3) A	alpha-BHC	3.146	3.857	206.8E6	191.1E6	18.085	19.173	
4) MA	gamma-BHC	3.492	4.335	197.3E6	190.1E6	19.725	21.462	
5) MA	Heptachlor	4.047	4.958	195.0E6	217.3E6	20.767	23.820	
6) B	beta-BHC	3.607	4.432	110.6E6	102.7E6	23.081	25.617	
7) B	delta-BHC	3.829	4.863	11399356	10767413	1.251m	1.302	
8) MB	Aldrin	4.421	5.443	212.6E6	209.9E6	22.199	23.350	
9) B	Heptachlo...	5.184	6.304	204.5E6	201.9E6	23.895	24.873	
10) B	gamma-Chl...	5.366	6.602	199.5E6	195.4E6	23.316	24.913	
11) B	alpha-Chl...	5.547	6.834	201.7E6	192.4E6	21.868	24.423	
12) A	Endosulfan I	5.731	6.938	240.9E6	185.8E6	25.385	24.704	
13) B	4,4'-DDE	5.683	7.094	165.0E6	203.6E6	19.284	25.916	#
14) MA	Dieldrin	6.070	7.386	217.3E6	202.7E6	24.159	25.840	
15) MA	Endrin	6.407	7.905	202.9E6	184.6E6	23.684	26.402	
16) A	4,4'-DDD	6.567	8.067	157.6E6	156.0E6	21.738	24.566	
17) B	Endosulfa...	6.748	8.264	210.5E6	177.0E6	25.543	25.602	
18) MA	4,4'-DDT	6.986	8.609	90319284	134.8E6	17.952	24.289	#
19) B	Endrin Al...	7.384	8.840	173.9E6	142.8E6	25.000	27.201	
20) B	Endosulfa...	8.077	9.316	116.9E6	98342286	15.477	16.998	
21) A	Methoxychlor	7.801	9.821	64931725	76768760	20.105	25.455	#
23) B	Endrin Ke...	8.539	10.181	214.7E6	168.6E6	24.580	26.539	

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

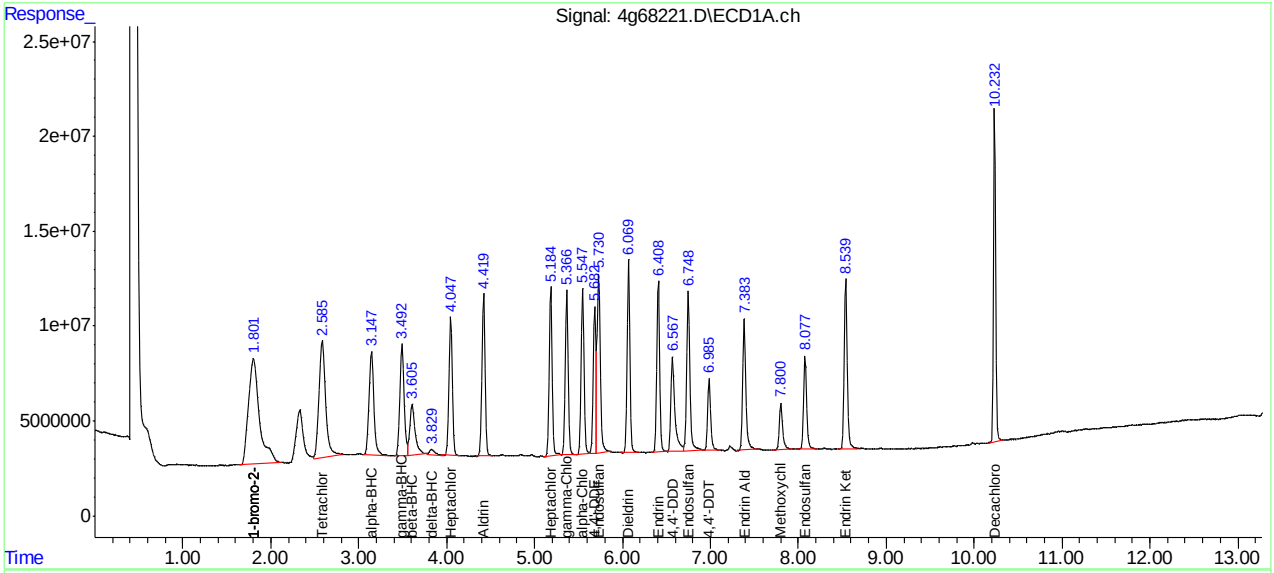
SGS ACCUTEST JC20098

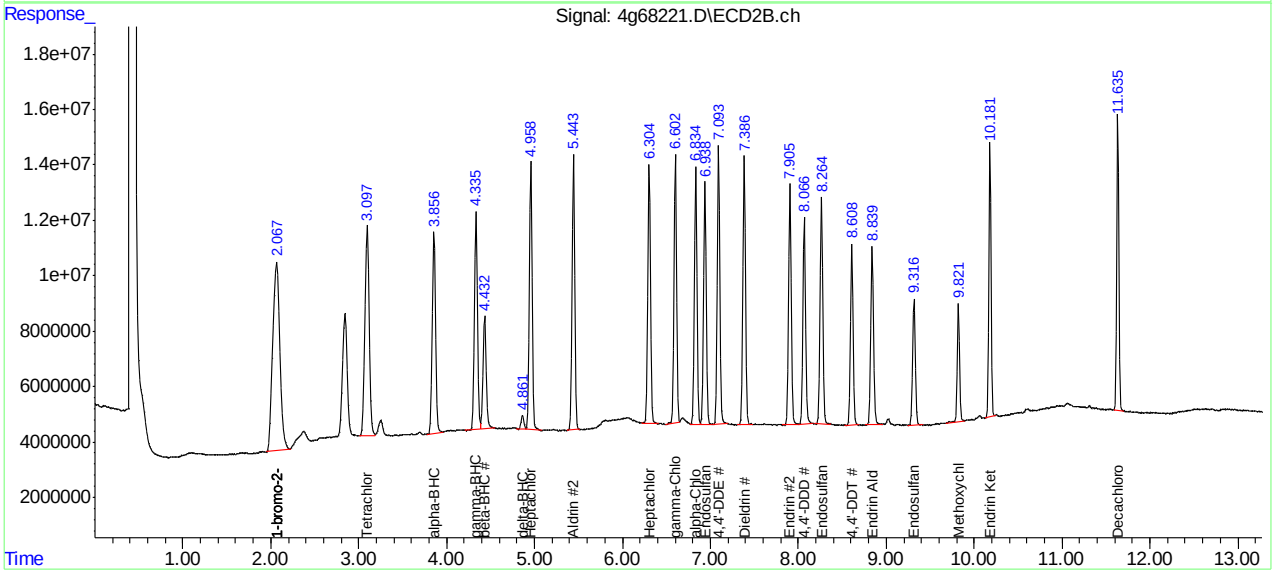
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1788\
Data File : 4g68221.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 May 2016 11:37 am
Operator : dharas
Sample : op93870-msd
Misc : op93870,g4g1788,500,,,10,1
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 31 14:26:08 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 31 14:24:34 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





Manual Integration Approval Summary

Sample Number:	OP93870-MSD	**Method:**	SW846 8081B
Lab FileID:	4G68221.D	**Analyst approved:**	05/31/16 14:33 Joseph Ravino
Injection Time:	05/13/16 11:37	**Supervisor approved:**	05/31/16 14:58 Gwendolyn Burns

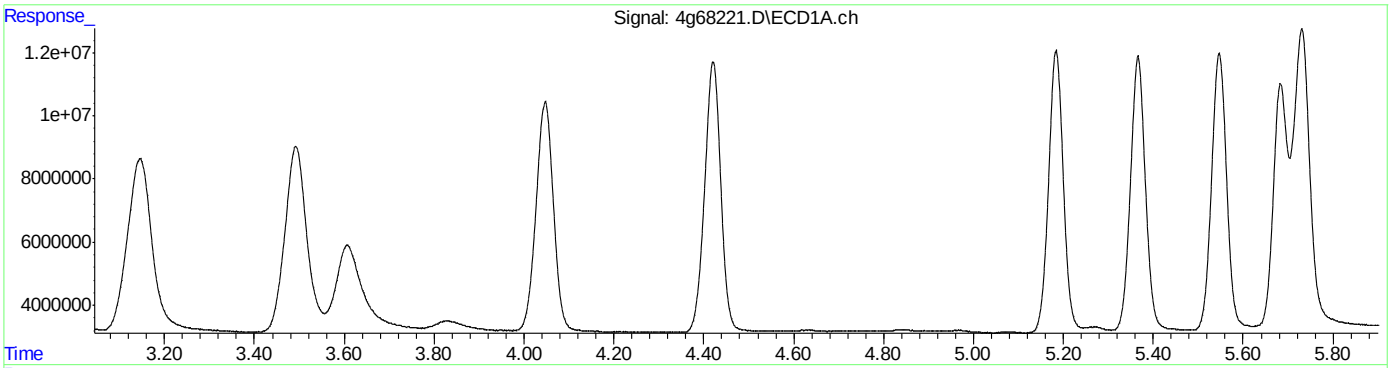
Parameter	CAS	Sig#	R.T. (min.)	Reason
delta-BHC	319-86-8	1	3.83	Poorly defined baseline

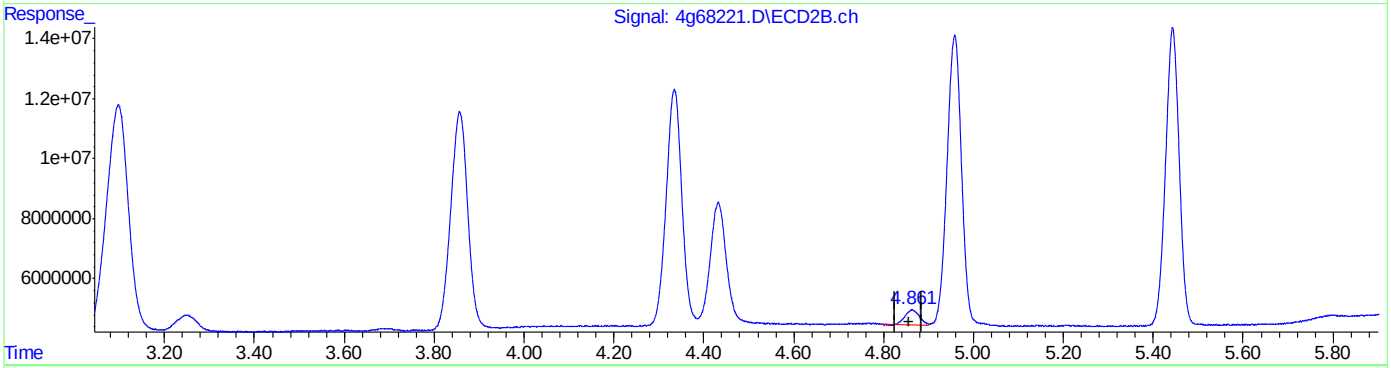
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1788\
Data File : 4g68221.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 May 2016 11:37 am
Operator : dharas
Sample : op93870-msd
Misc : op93870,g4g1788,500,,,10,1
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 31 14:25:44 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 31 14:24:34 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(7) delta-BHC (B)
0.000min 0.000 PPB
response 0

(7) delta-BHC #2 (B)
4.863min 1.302 PPB
response 10767413

(+) = Expected Retention Time

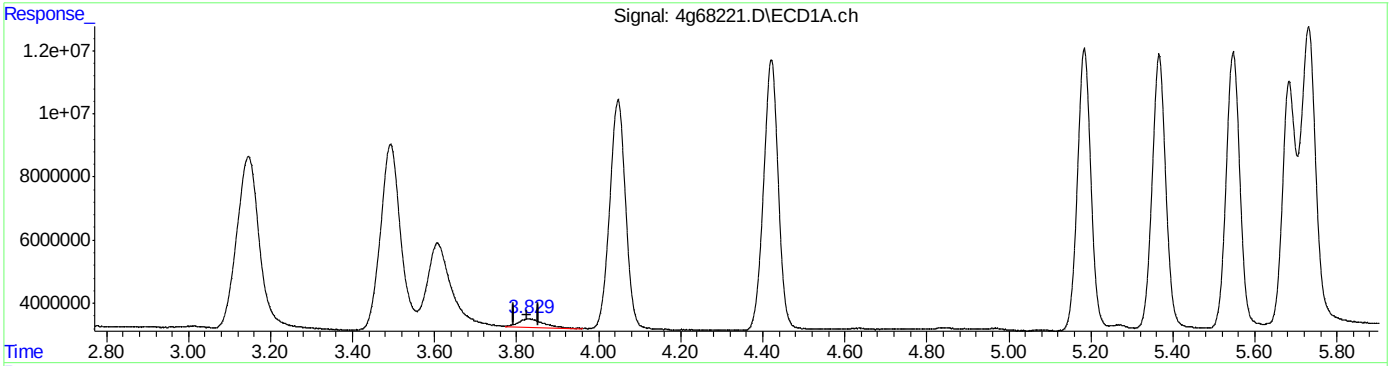
SGS ACCUTEST JC20098

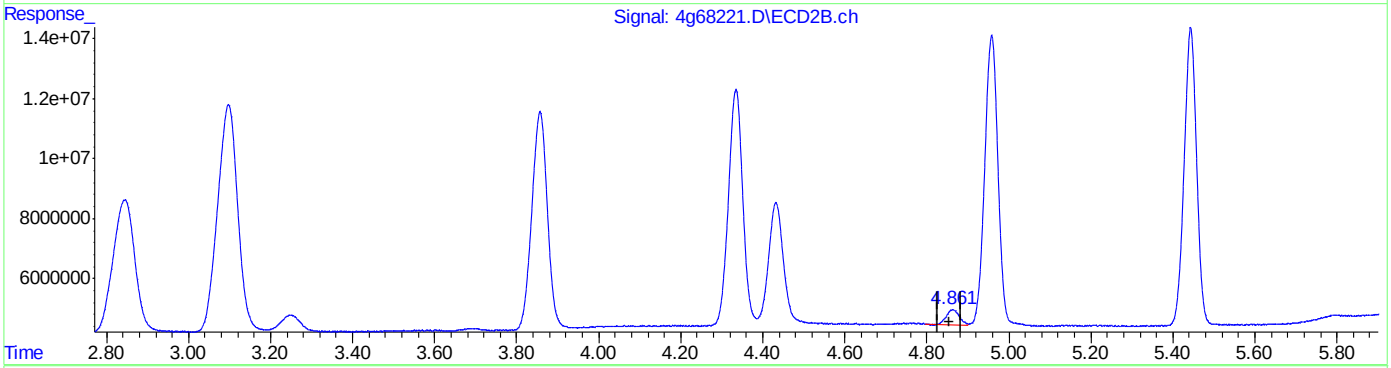
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1788\
Data File : 4g68221.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 May 2016 11:37 am
Operator : dharas
Sample : op93870-msd
Misc : op93870,g4g1788,500,,,10,1
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 31 14:25:44 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 31 14:24:34 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(7) delta-BHC (B)
3.829min 1.251 PPB m
response 11399356

(7) delta-BHC #2 (B)
4.863min 1.302 PPB
response 10767413

(+) = Expected Retention Time
4PST1778.M Tue May 31 14:26:14 2016 RPT1

SGS ACCUTEST JC20098

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 05/18/16 11:34

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1012\
Data File : 6g35150.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 May 2016 11:42 am
Operator : rebeccak
Sample : op93898-ms
Misc : op93898,g6g1012,495,,,10,1
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 17 13:06:19 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 16 10:05:37 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.292	1.563	124.3E6	49693014	50.000	50.000
25) I	1-bromo-2...	1.292	1.563	124.3E6	49693014	50.000	50.000
31) I	1-bromo-2...	1.292	1.563	124.3E6	49693014	50.000	50.000
	System Monitoring Compounds						
2)	SAB Tetrachlo...	1.967	2.455	101.3E6	37738449	44.485	42.034
	Spiked Amount 40.000	Range	30 - 150	Recovery	=	111.21%	105.09%
24)	SAB Decachlor...	9.883	11.732	56011946	19198662	28.276	28.441
	Spiked Amount 40.000			Recovery	=	70.69%	71.10%
	Target Compounds						
3) A	alpha-BHC	2.479	3.155	85825400	32180420	29.224	27.512
4) MA	gamma-BHC	2.793	3.606	79941373	30018715	29.239	27.410
5) MA	Heptachlor	3.318	4.210	74510154	27780703	27.148	25.100
6) B	beta-BHC	2.874	3.700	38059456	14085096	28.358	26.397
7) B	delta-BHC	3.067	4.114	71623606	27171498	28.109	26.623
8) MB	Aldrin	3.669	4.685	67658257	26063666	26.692	25.324
9) B	Heptachlo...	4.414	5.562	69153468	25911261	29.139	27.012
10) B	gamma-Chl...	4.588	5.867	65371160	24328985	27.372	25.944
11) B	alpha-Chl...	4.770	6.110	64395847	24134660	27.168	25.906
12) A	Endosulfan I	4.950	6.209	65459778	23808694	27.975	26.305
13) B	4,4'-DDE	4.900	6.409	50332406	18916415	25.626	23.547
14) MA	Dieldrin	5.293	6.677	65605168	24895053	28.355	26.928
15) MA	Endrin	5.633	7.219	62549816	23689864	29.802	28.203
16) A	4,4'-DDD	5.787	7.440	45344656	18506614	27.308	26.693
17) B	Endosulfa...	5.974	7.602	58203047	22664130	28.106	27.587
18) MA	4,4'-DDT	6.235	8.019	41854582	15080756	23.173	23.965
19) B	Endrin Al...	6.643	8.229	50151654	18366613	29.713	27.574
20) B	Endosulfa...	7.378	8.742	54484911	19905497	29.960	27.534m
21) A	Methoxychlor	7.100	9.395	26948468	8633354	24.894	24.899
23) B	Endrin Ke...	7.851	9.787	64170343	23545519	29.672	27.864m

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

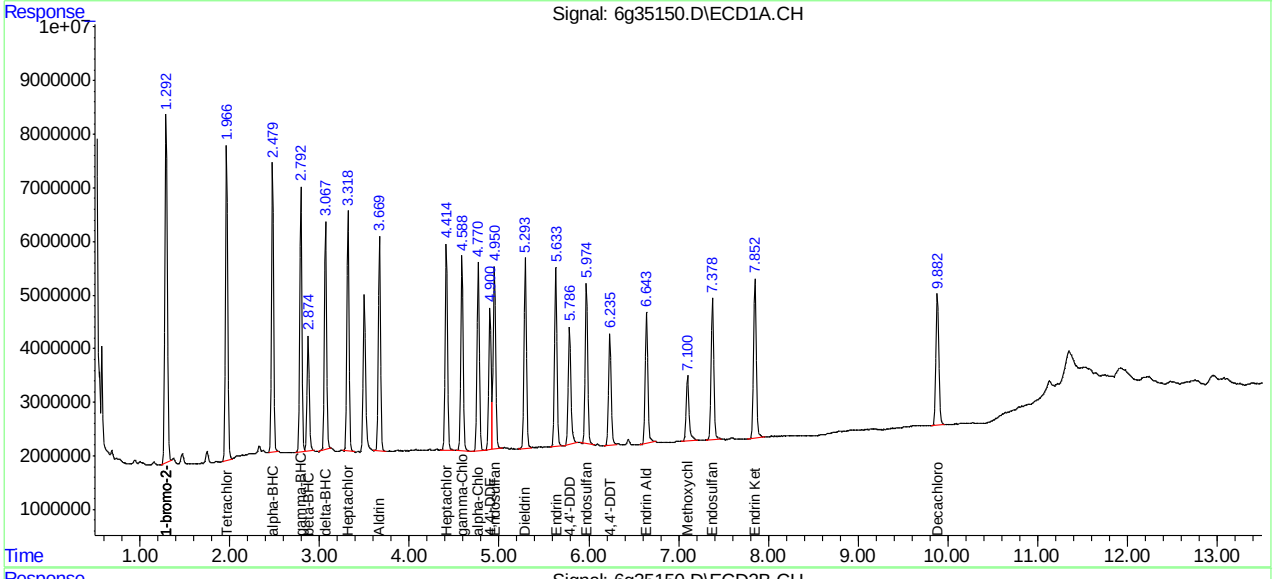
SGS ACCUTEST JC20098

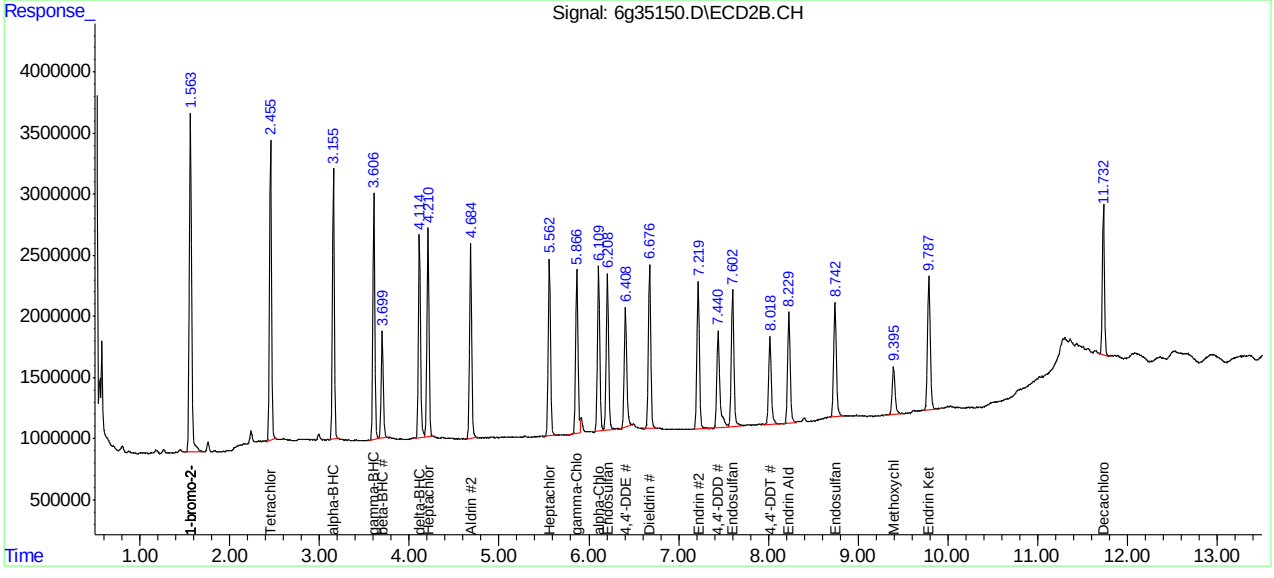
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1012\
Data File : 6g35150.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 May 2016 11:42 am
Operator : rebeccak
Sample : op93898-ms
Misc : op93898,g6g1012,495,,,10,1
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 17 13:06:19 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 16 10:05:37 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





SGS ACCUTEST JC20098

Manual Integration Approval Summary

Sample Number:	OP93898-MS	**Method:**	SW846 8081B
Lab FileID:	6G35150.D	**Analyst approved:**	05/17/16 17:12 Dhara Saparia
Injection Time:	05/17/16 11:42	**Supervisor approved:**	05/18/16 11:34 Gwendolyn Burns

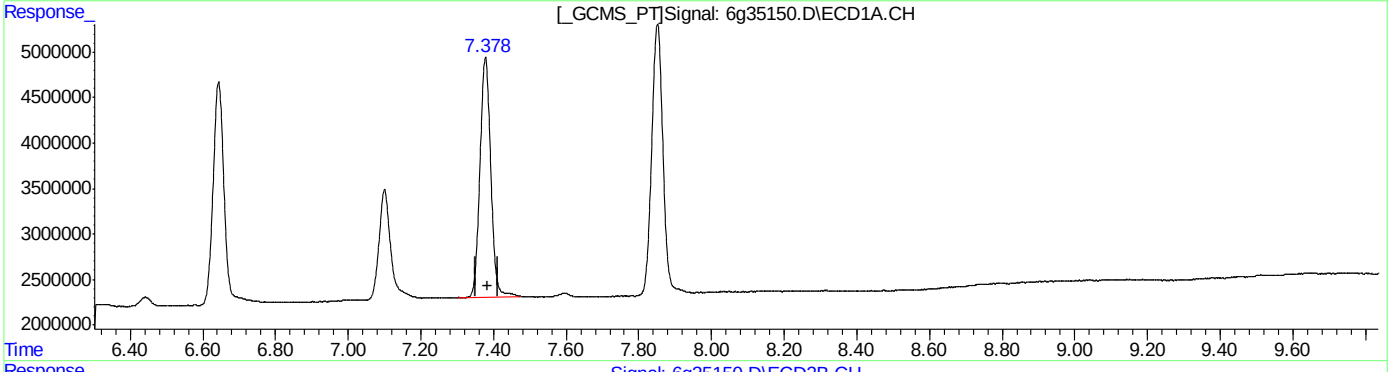
Parameter	CAS	Sig#	R.T. (min.)	Reason
Endosulfan sulfate	1031-07-8	2	8.74	Poor instrument integration
Endrin ketone	53494-70-5	2	9.79	Poor instrument integration

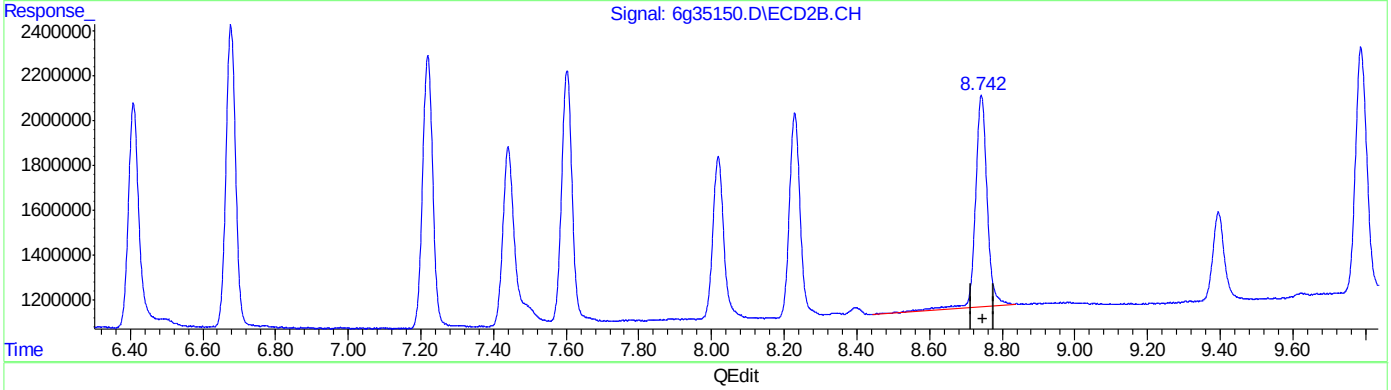
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1012\
Data File : 6g35150.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 May 2016 11:42 am
Operator : rebeccak
Sample : op93898-ms
Misc : op93898,g6g1012,495,,,10,1
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 17 13:05:29 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 16 10:05:37 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





QEdit

(20) Endosulfan Sulfate (B)
7.378min 29.960PPB
response 54484911

(20) Endosulfan Sulfate #2 (B)
8.743min 29.430PPB
response 21276308

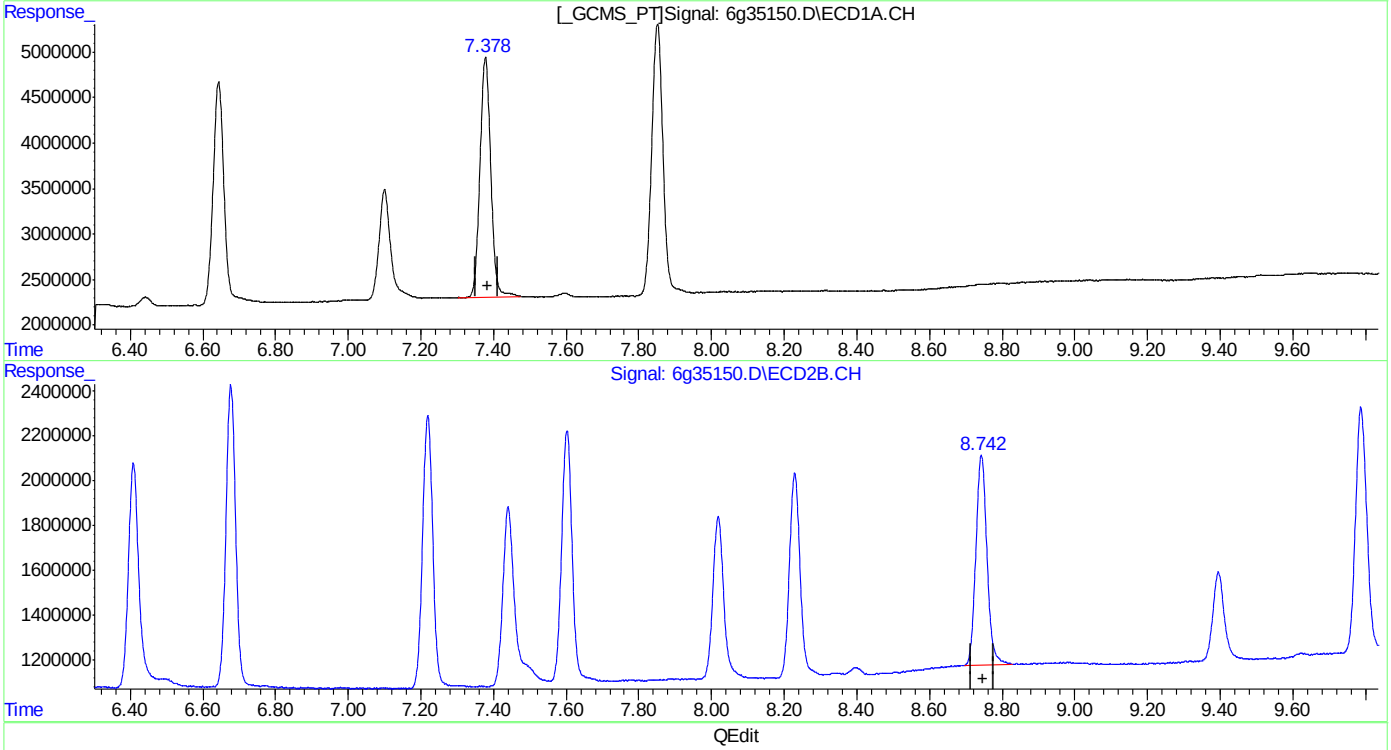
(+) = Expected Retention Time
6PST987.M Tue May 17 13:05:48 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1012\
Data File : 6g35150.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 May 2016 11:42 am
Operator : rebeccak
Sample : op93898-ms
Misc : op93898,g6g1012,495,,,10,1
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 17 13:05:29 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 16 10:05:37 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um



(20) Endosulfan Sulfate (B)
7.378min 29.960PPB
response 54484911

(20) Endosulfan Sulfate #2 (B)
8.742min 27.534PPB m
response 19905497

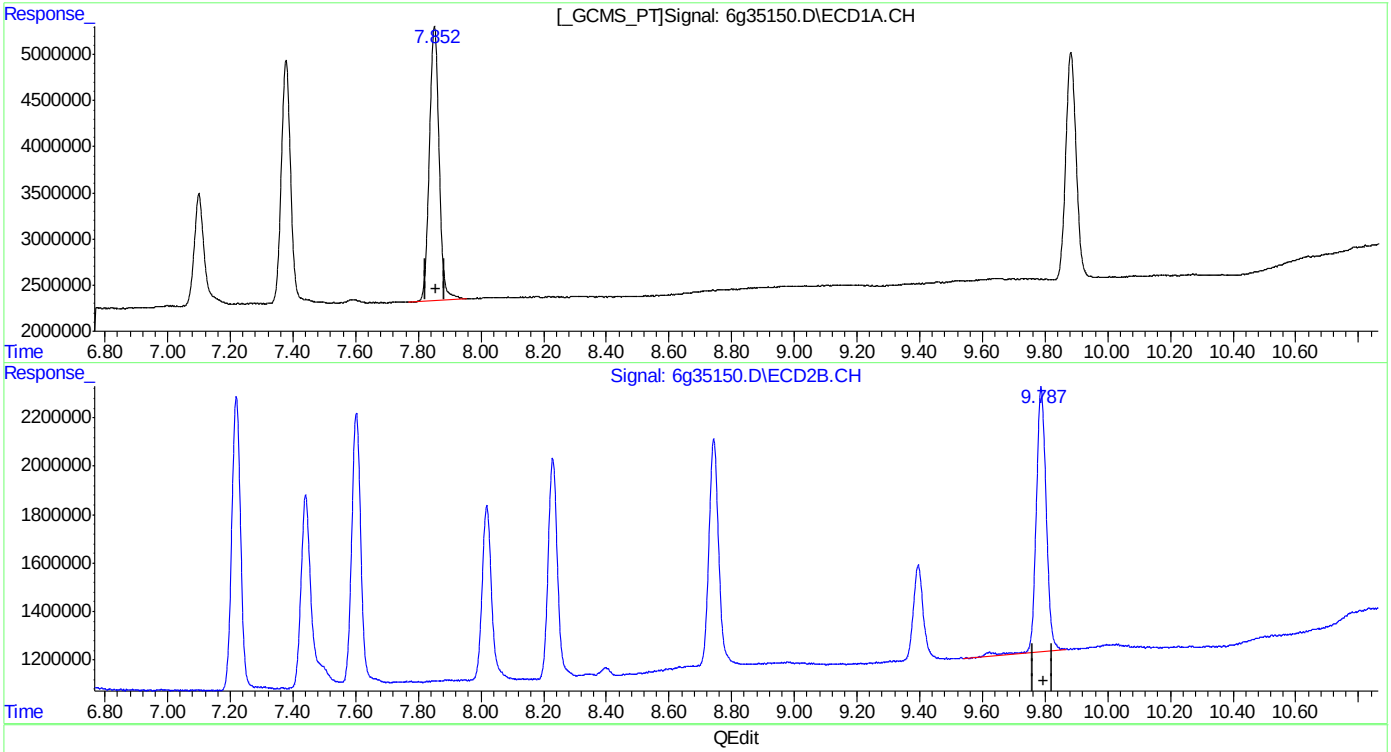
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1012\
Data File : 6g35150.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 May 2016 11:42 am
Operator : rebeccak
Sample : op93898-ms
Misc : op93898,g6g1012,495,,,10,1
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 17 13:05:29 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 16 10:05:37 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um



QEdit

(23) Endrin Ketone (B)
7.851min 29.672PPB
response 64170343

(23) Endrin Ketone #2 (B)
9.788min 28.467PPB
response 24055122

(+) = Expected Retention Time
6PST987.M Tue May 17 13:06:01 2016

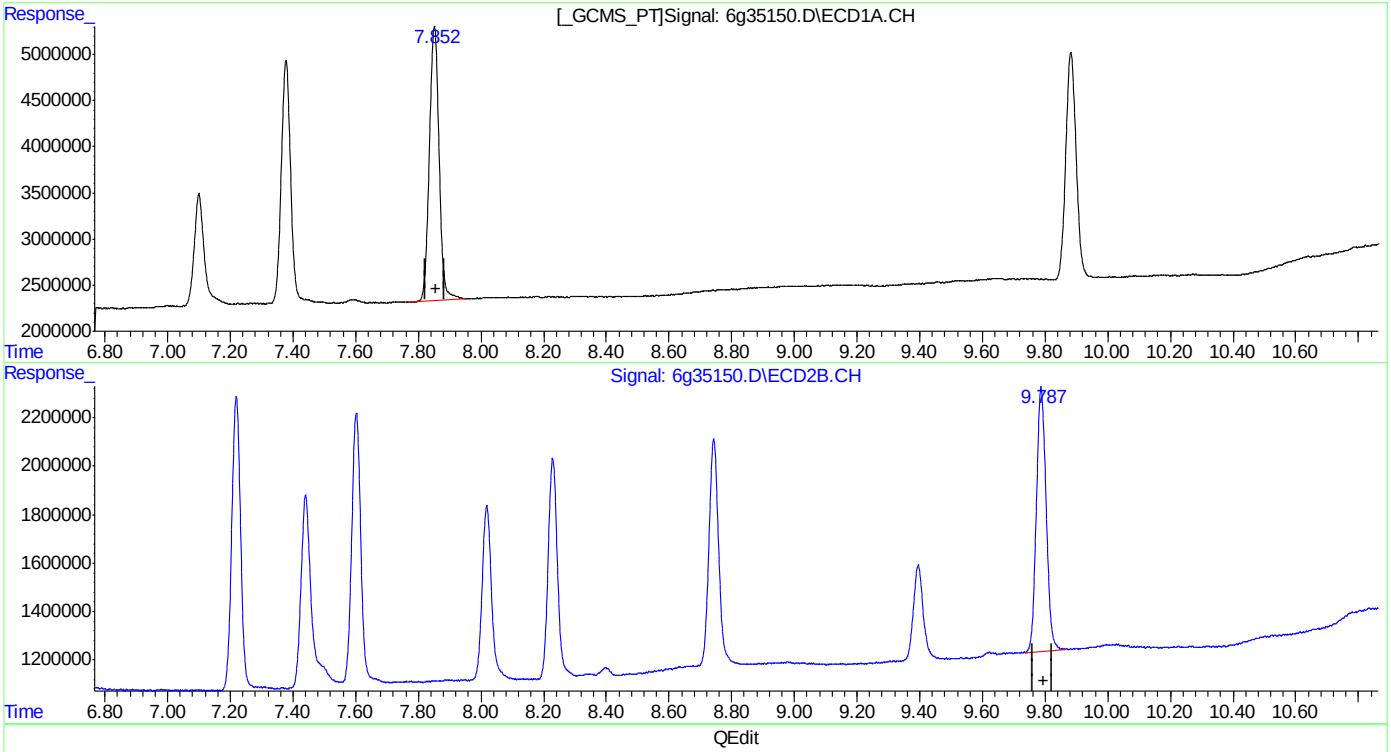
SGS ACCUTEST JC20098

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1012\
Data File : 6g35150.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 May 2016 11:42 am
Operator : rebeccak
Sample : op93898-ms
Misc : op93898,g6g1012,495,,,10,1
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 17 13:05:29 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 16 10:05:37 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um



QEdit

(23) Endrin Ketone (B)
7.851min 29.672PPB
response 64170343

(23) Endrin Ketone #2 (B)
9.787min 27.864PPB m
response 23545519

(+) = Expected Retention Time
6PST987.M Tue May 17 13:06:09 2016

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1012\
Data File : 6g35151.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 May 2016 11:58 am
Operator : rebeccak
Sample : op93898-msd
Misc : op93898,g6g1012,495,,,10,1
ALS Vial : 36 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 17 13:06:57 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 16 10:05:37 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.292	1.564	119.7E6	48722602	50.000	50.000
25) I	1-bromo-2...	1.292	1.564	119.7E6	48722602	50.000	50.000
31) I	1-bromo-2...	1.292	1.564	119.7E6	48722602	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	1.967	2.455	82592665	35395464	37.640	40.210
Spiked Amount		40.000 Range	30 - 150	Recovery	=	94.10%	100.52%
24) SAB	Decachlor...	9.884	11.732	61365231	21636448	32.161	32.691
Spiked Amount		40.000		Recovery	=	80.40%	81.73%
	Target Compounds						
3) A	alpha-BHC	2.479	3.156	89433652	33354544	31.616	29.084
4) MA	gamma-BHC	2.794	3.607	83798595	31213821	31.820	29.069
5) MA	Heptachlor	3.318	4.210	78521753	29008784	29.702	26.731
6) B	beta-BHC	2.875	3.700	39564254	14554720	30.605	27.821
7) B	delta-BHC	3.068	4.115	74280863	28522592	30.265	28.504
8) MB	Aldrin	3.669	4.685	71538414	27760883	29.300	27.511
9) B	Heptachlo...	4.413	5.562	71124208	27244808	31.114	28.968
10) B	gamma-Chl...	4.589	5.867	69281490	25828250	30.117	28.092
11) B	alpha-Chl...	4.770	6.110	68350410	25742008	29.937	28.182
12) A	Endosulfan I	4.951	6.208	69409245	25616306	30.795	28.866
13) B	4,4'-DDE	4.900	6.409	52806135	22378844	27.912	28.411
14) MA	Dieldrin	5.293	6.677	69770714	26132888	31.307	28.830
15) MA	Endrin	5.634	7.220	66178376	25574551	32.734	31.053
16) A	4,4'-DDD	5.787	7.440	47913290	20206745	29.956	29.726
17) B	Endosulfa...	5.976	7.601	61998524	24523027	31.082	30.445
18) MA	4,4'-DDT	6.236	8.019	44727794	16347564	25.709	26.496
19) B	Endrin Al...	6.643	8.229	54356982	19837660	33.433	30.375
20) B	Endosulfa...	7.377	8.743	57216874	20897241	32.663	29.481
21) A	Methoxychlor	7.100	9.394	28738505	9778498	27.561	28.763
23) B	Endrin Ke...	7.851	9.788	68246769	24608199	32.762	29.701

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

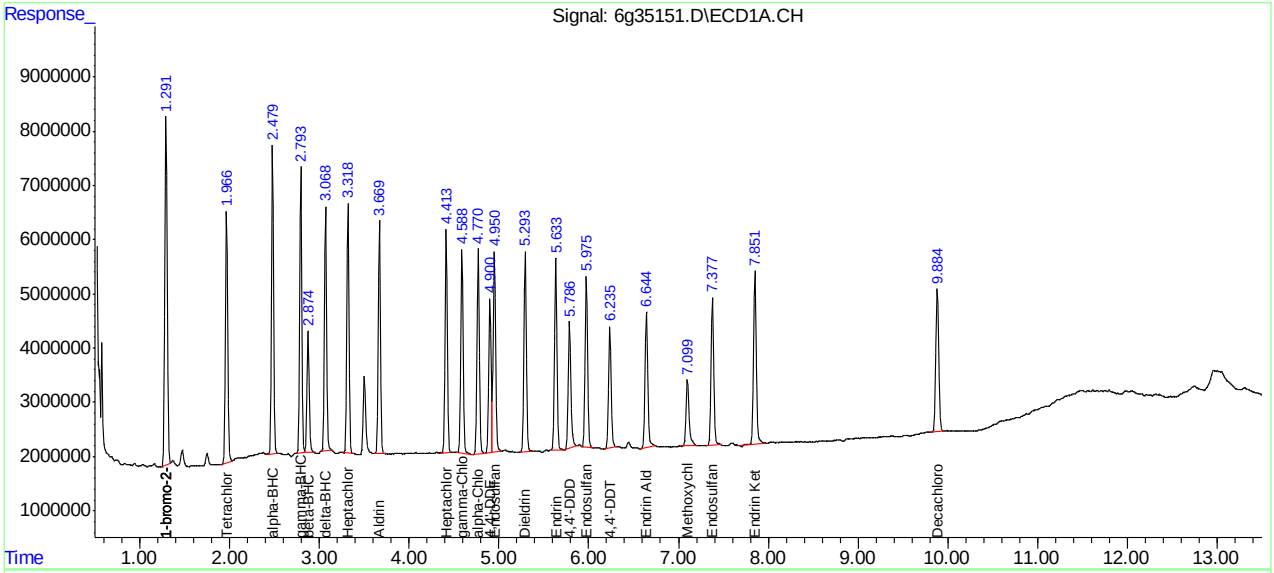
SGS ACCUTEST JC20098

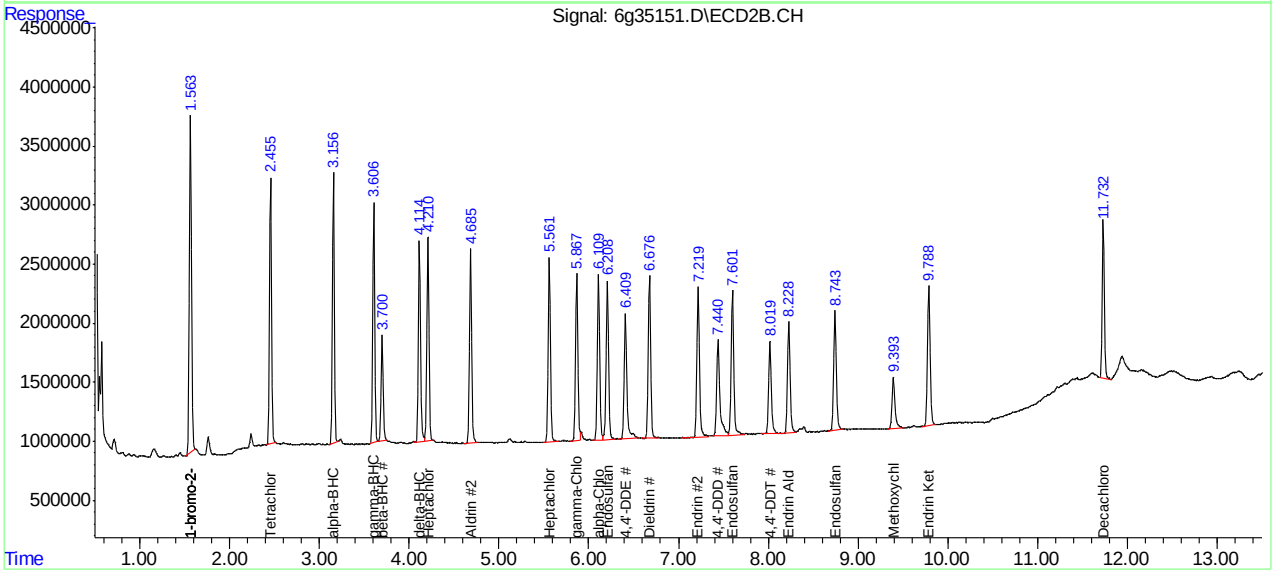
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1012\
Data File : 6g35151.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 May 2016 11:58 am
Operator : rebeccak
Sample : op93898-msd
Misc : op93898,g6g1012,495,,,10,1
ALS Vial : 36 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 17 13:06:57 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 16 10:05:37 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
05/04/16 11:11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67830.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 1:55 pm
Operator : dharas
Sample : ddt
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:31:10 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.785f	2.062	328.2E6	300.2E6	50.000	50.000
25) I	1-bromo-2...	1.785	2.062	328.2E6	300.2E6	50.000	50.000
31) I	1-bromo-2...	1.785	2.062	328.2E6	300.2E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	2.586	3.101	126.8E6	120.2E6	22.413m	22.735m
	Spiked Amount	40.000	Range	30 - 150	Recovery	= 56.03%	56.84%
24) SA	Decachlor...	10.262	11.666	153.3E6	107.1E6	28.756m	28.560
	Spiked Amount	40.000			Recovery	= 71.89%	71.40%
	Target Compounds						
13) B	4,4'-DDE	5.705	7.115	4928073	5619299	0.851	0.922m
15) MA	Endrin	6.446f	7.932	357.9E6	325.0E6	61.726	59.920
16) A	4,4'-DDD	6.578	8.089	10193689	13113095	2.077	2.663 #
18) MA	4,4'-DDT	7.006	8.635	619.9E6	599.9E6	121.777	139.372
19) B	Endrin Al...	7.417	8.867	4622381	4711235	0.981m	1.157m
23) B	Endrin Ke...	8.571	10.201	15245220	18350578	2.578	3.725m#

SemiQuant Compounds - Not Calibrated on this Instrument

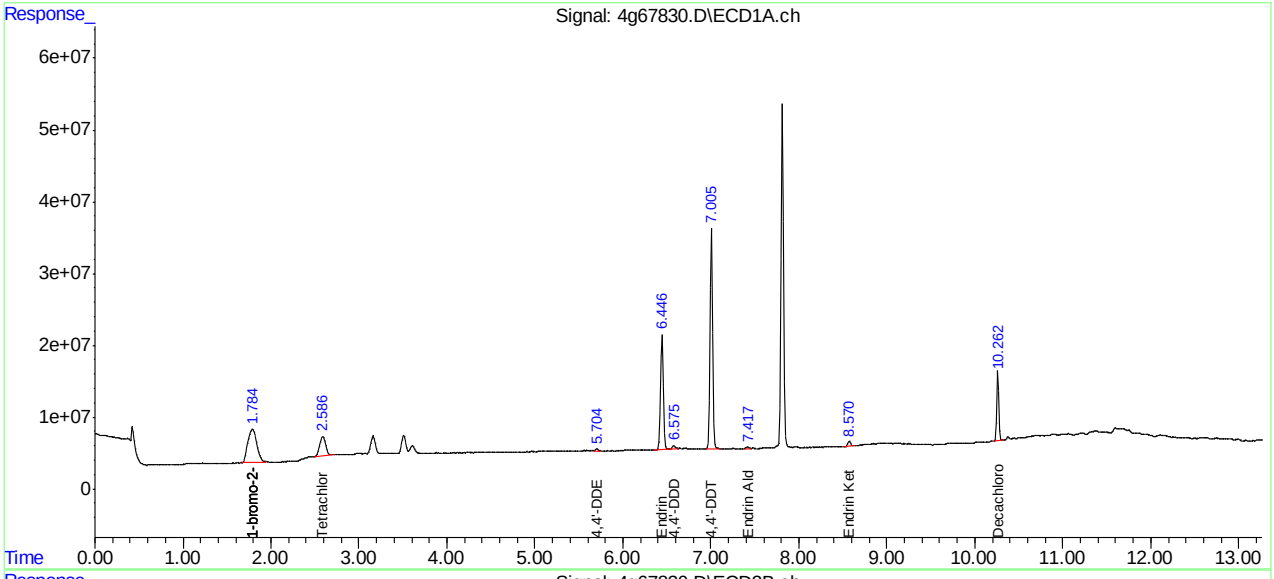
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

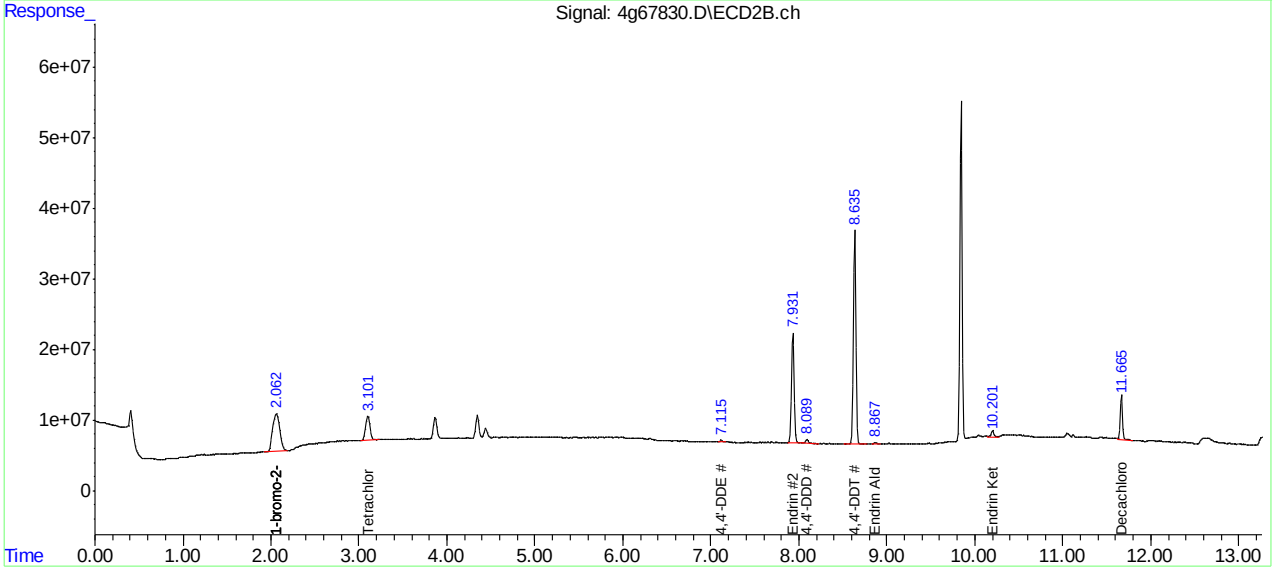
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67830.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 1:55 pm
Operator : dharas
Sample : ddt
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:31:10 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





Manual Integration Approval Summary

Sample Number:	G4G1778-DDT	**Method:**	SW846 8081B
Lab FileID:	4G67830.D	**Analyst approved:**	05/03/16 15:32 Joseph Ravino
Injection Time:	05/02/16 13:55	**Supervisor approved:**	05/04/16 11:11 Gwendolyn Burns

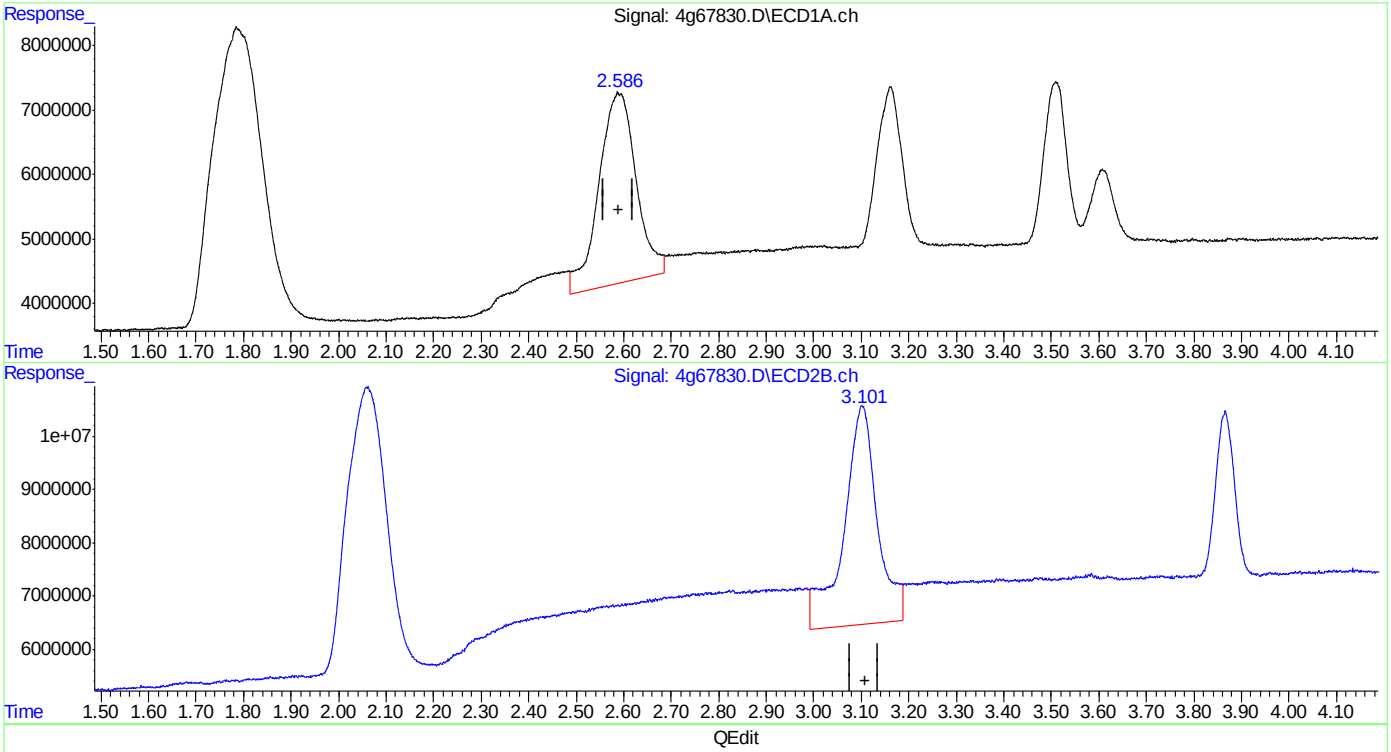
Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrachloro-m-xylene	877-09-8	1	2.59	Poorly defined baseline
Tetrachloro-m-xylene	877-09-8	2	3.10	Poorly defined baseline
4,4'-DDE	72-55-9	2	7.12	Poorly defined baseline
Endrin aldehyde	7421-93-4	1	7.42	Poorly defined baseline
Endrin aldehyde	7421-93-4	2	8.87	Poorly defined baseline
Endrin ketone	53494-70-5	2	10.20	Poorly defined baseline
Decachlorobiphenyl	2051-24-3	1	10.26	Poorly defined baseline

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67830.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 1:55 pm
Operator : dharas
Sample : ddt
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:28:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(2) Tetrachloro-m-xylene (SAB)
2.587min 28.485 PPB
response 161188028

(2) Tetrachloro-m-xylene #2 (SAB)
3.101min 38.318 PPB
response 202621898

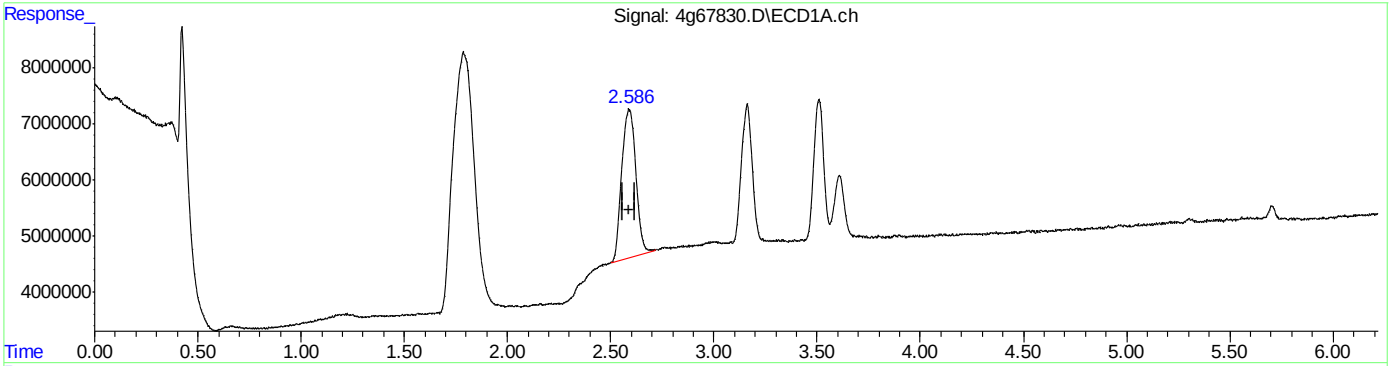
(+) = Expected Retention Time
4PST1778.M Tue May 03 15:29:00 2016 RPT1

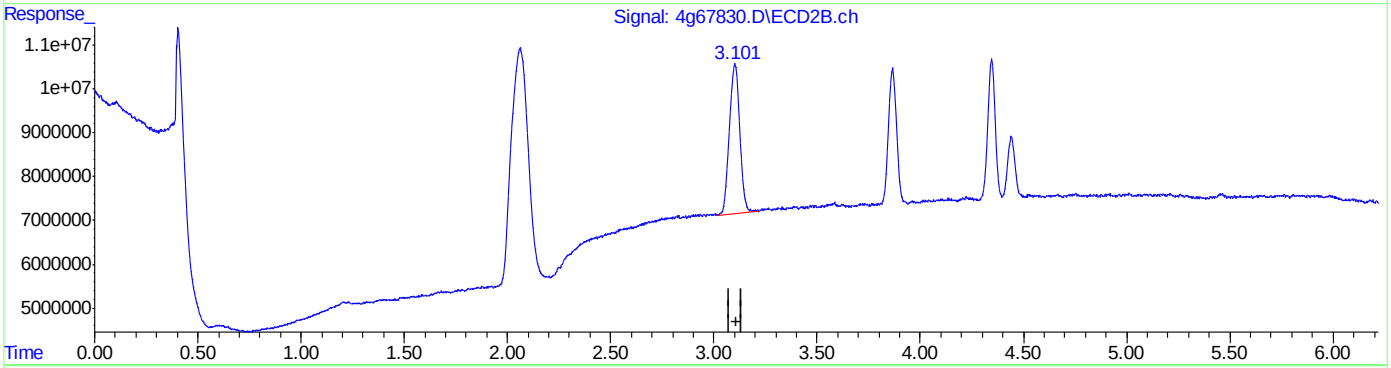
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67830.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 1:55 pm
Operator : dharas
Sample : ddt
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:28:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(2) Tetrachloro-m-xylene (SAB)
2.586min 22.413 PPB m
response 126825495

(2) Tetrachloro-m-xylene #2 (SAB)
3.101min 22.735 PPB m
response 120220429

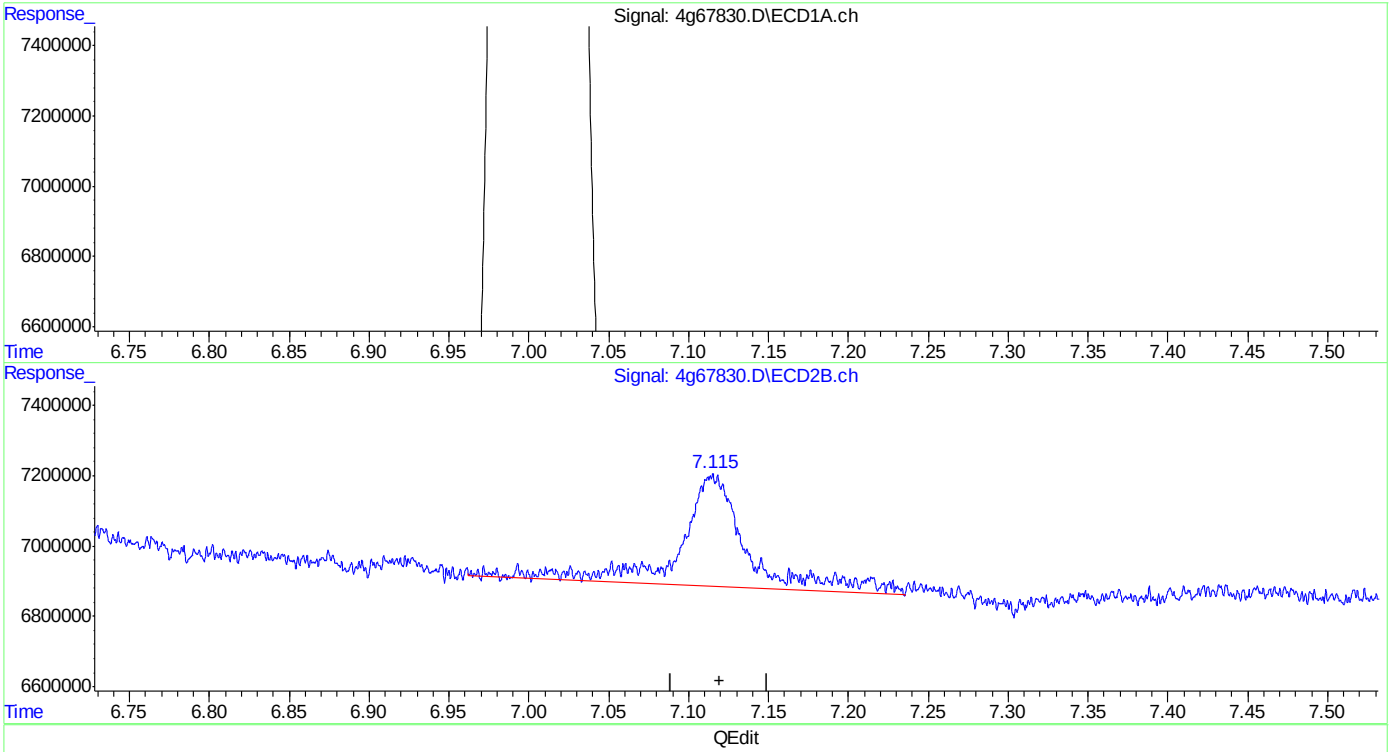
(+) = Expected Retention Time
4PST1778.M Tue May 03 15:29:10 2016 RPT1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67830.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 1:55 pm
Operator : dharas
Sample : ddt
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:28:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



(13) 4,4'-DDE (B)
5.705min 0.851 PPB
response 4928073

(13) 4,4'-DDE #2 (B)
7.115min 1.548 PPB
response 9432058

(+) = Expected Retention Time

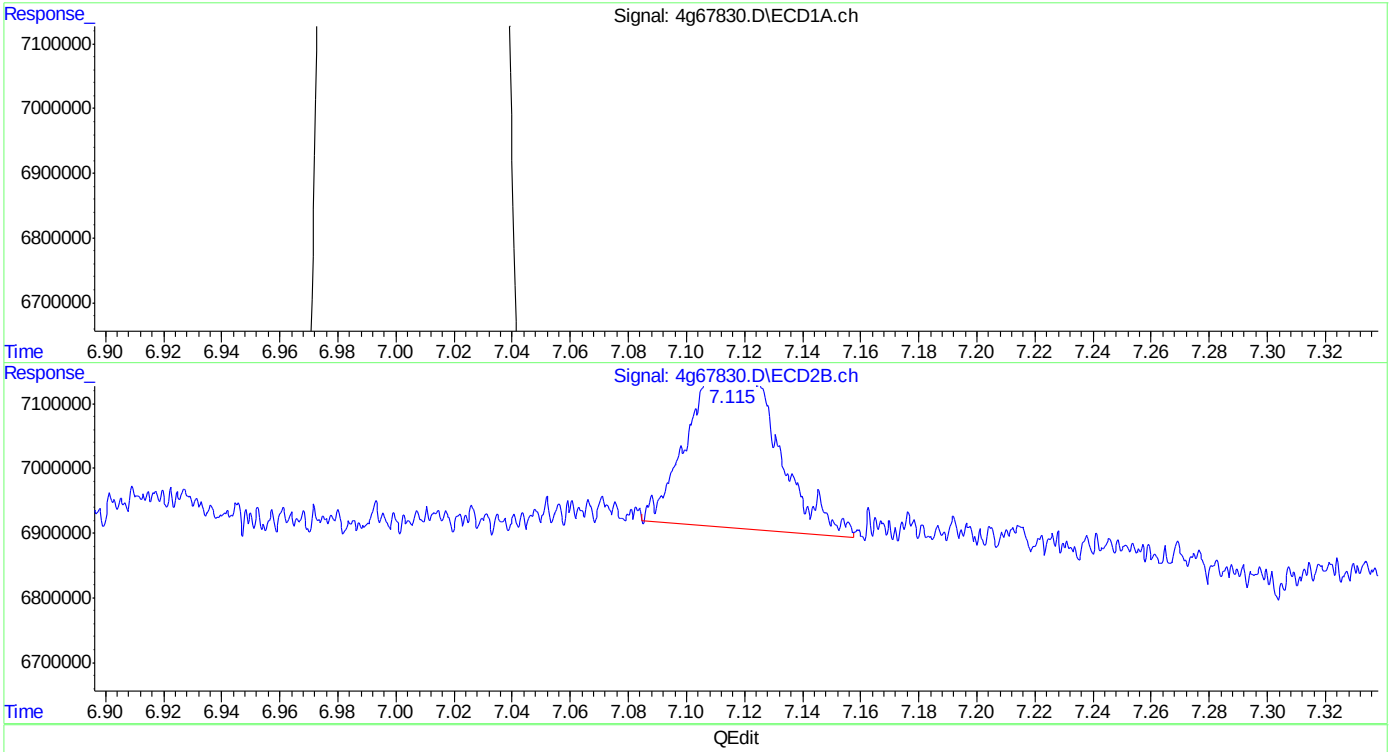
SGS ACCUTEST JC20098

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67830.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 1:55 pm
Operator : dharas
Sample : ddt
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:28:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(13) 4,4'-DDE (B)
5.705min 0.851 PPB
response 4928073

(13) 4,4'-DDE #2 (B)
7.115min 0.922 PPB m
response 5619299

(+) = Expected Retention Time
4PST1778.M Tue May 03 15:29:29 2016 RPT1

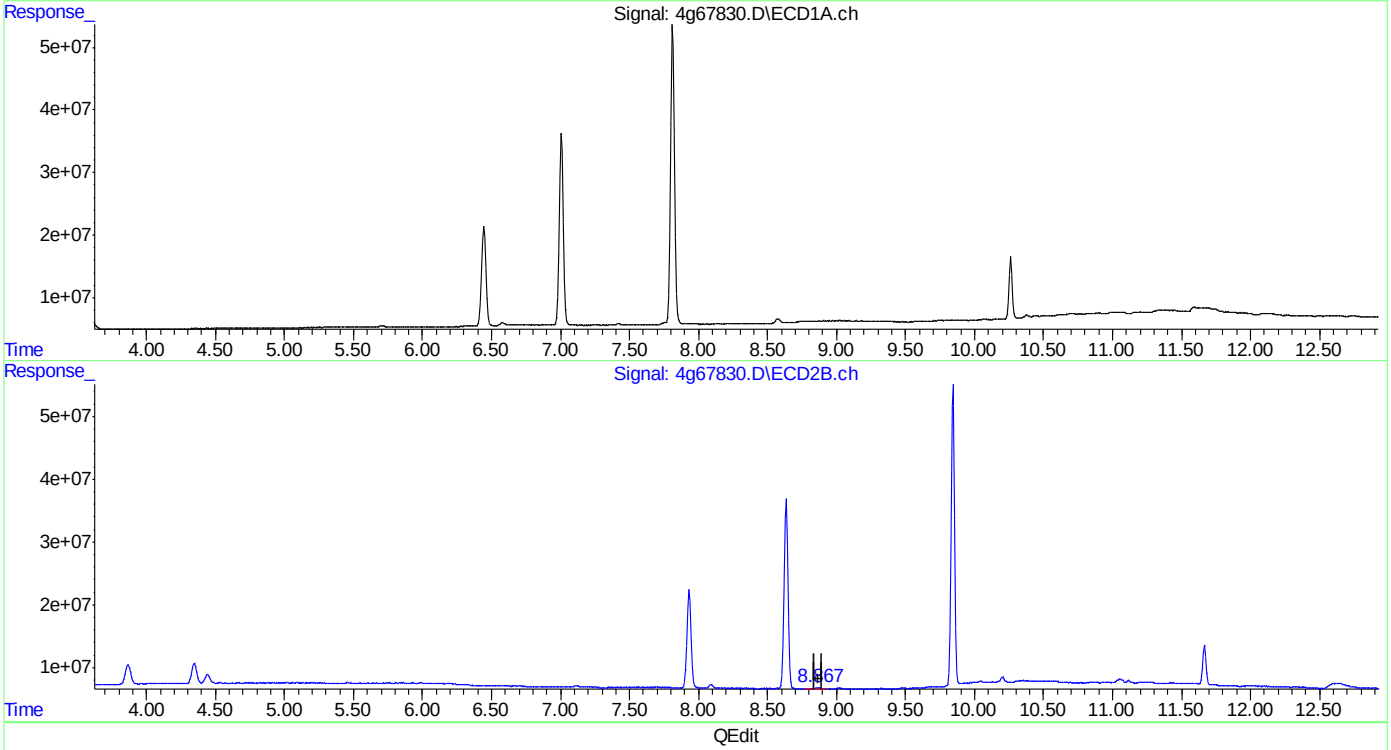
SGS ACCUTEST JC20098

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67830.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 1:55 pm
Operator : dharas
Sample : ddt
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:28:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(19) Endrin Aldehyde (B)
0.000min 0.000 PPB
response 0

(19) Endrin Aldehyde #2 (B)
8.867min 1.311 PPB
response 5341379

(+) = Expected Retention Time
4PST1778.M Tue May 03 15:30:09 2016 RPT1

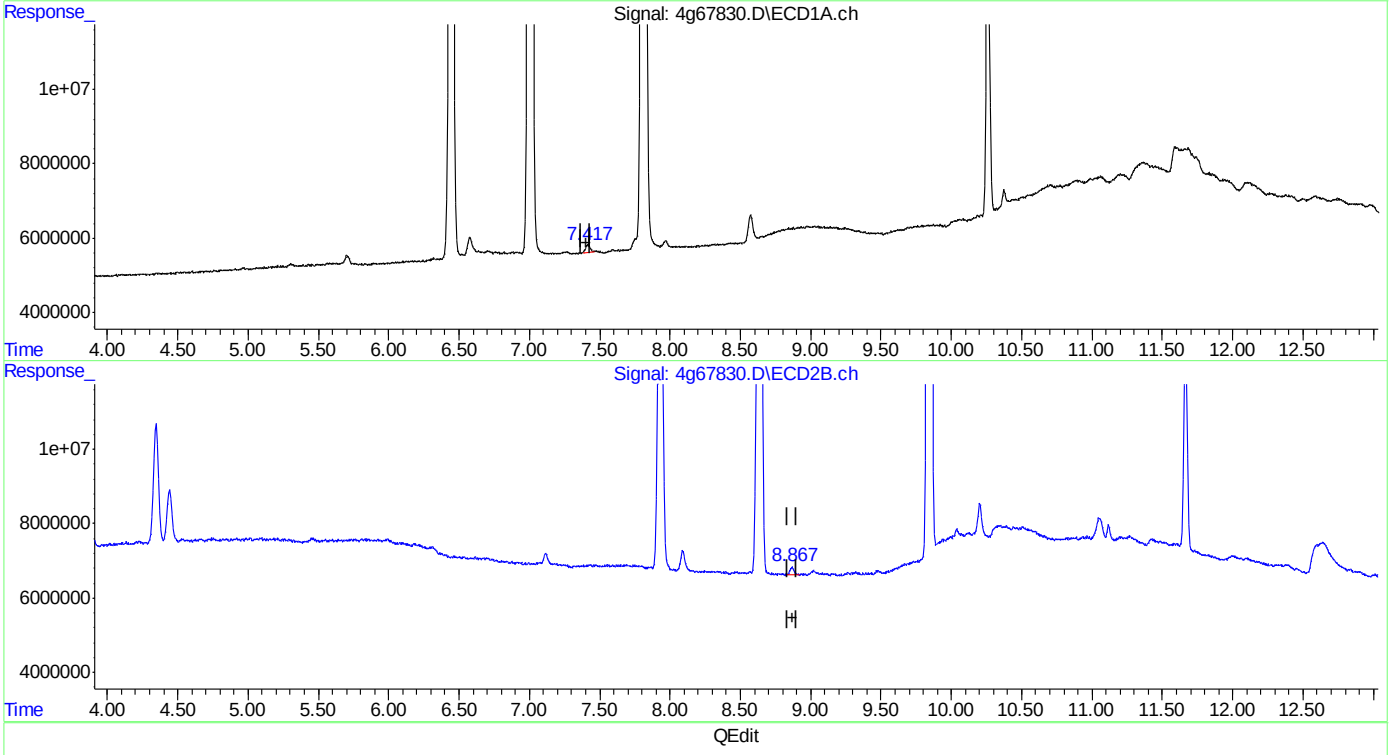
SGS ACCUTEST JC20098

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67830.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 1:55 pm
Operator : dharas
Sample : ddt
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:28:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(19) Endrin Aldehyde (B)
7.417min 0.981 PPB m
response 4622381

(19) Endrin Aldehyde #2 (B)
8.867min 1.157 PPB m
response 4711235

(+) = Expected Retention Time
4PST1778.M Tue May 03 15:30:41 2016 RPT1

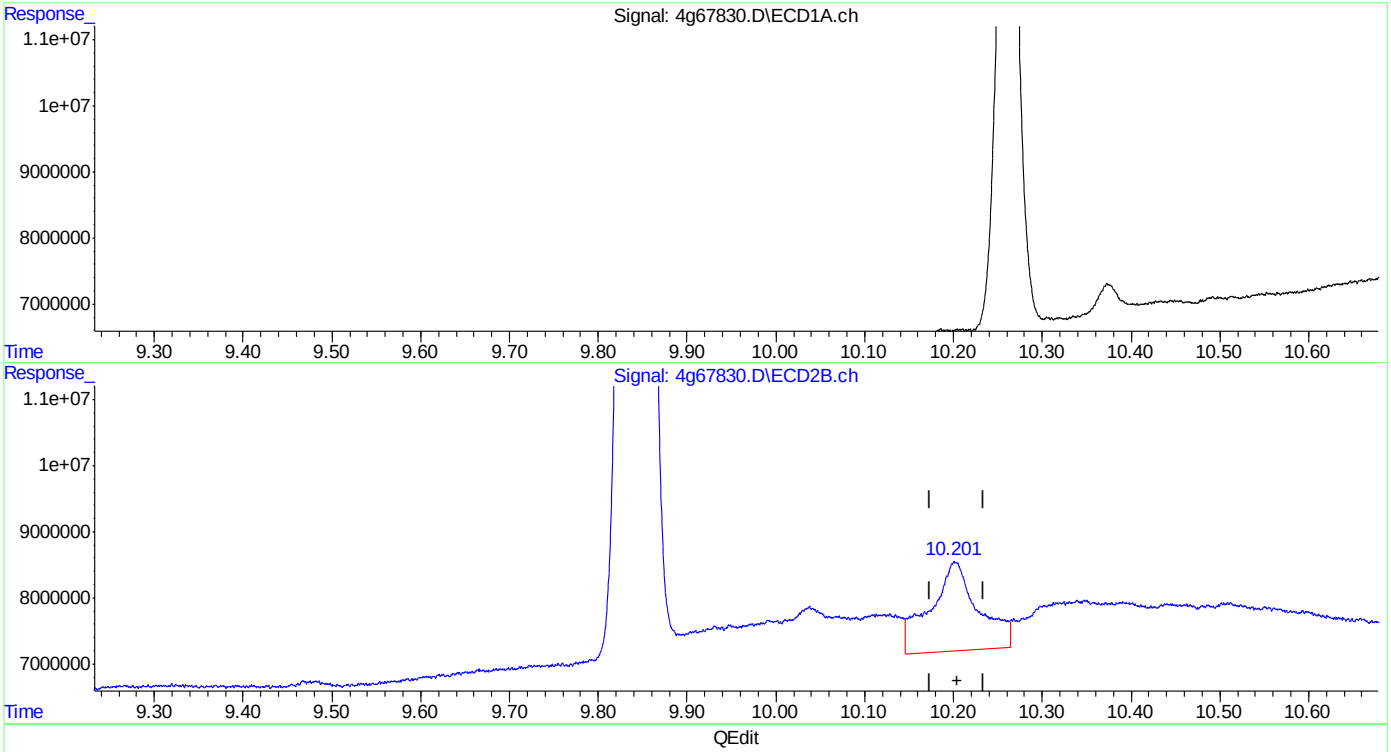
SGS ACCUTEST JC20098

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67830.D
Signal(s) : Signal #1: ECD1A.ch  Signal #2: ECD2B.ch
Acq On    :  2 May 2016   1:55 pm
Operator  : dharas
Sample    : ddt
Misc      : op93464,g4g1778,100,,,10,1
ALS Vial  : 1   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:28:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title  : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.     : 1ul/column
Signal #1 Phase : RTXCLP I          Signal #2 Phase: RTX-CLP II
Signal #1 Info  : 30mx.32mmx.32um   Signal #2 Info : 30m x .32mm x .25um
```



QEdit

(23) Endrin Ketone (B)
8.571min 2.578 PPB
response 15245220

(23) Endrin Ketone #2 (B)
10.202min 10.275 PPB
response 50617081

(+) = Expected Retention Time

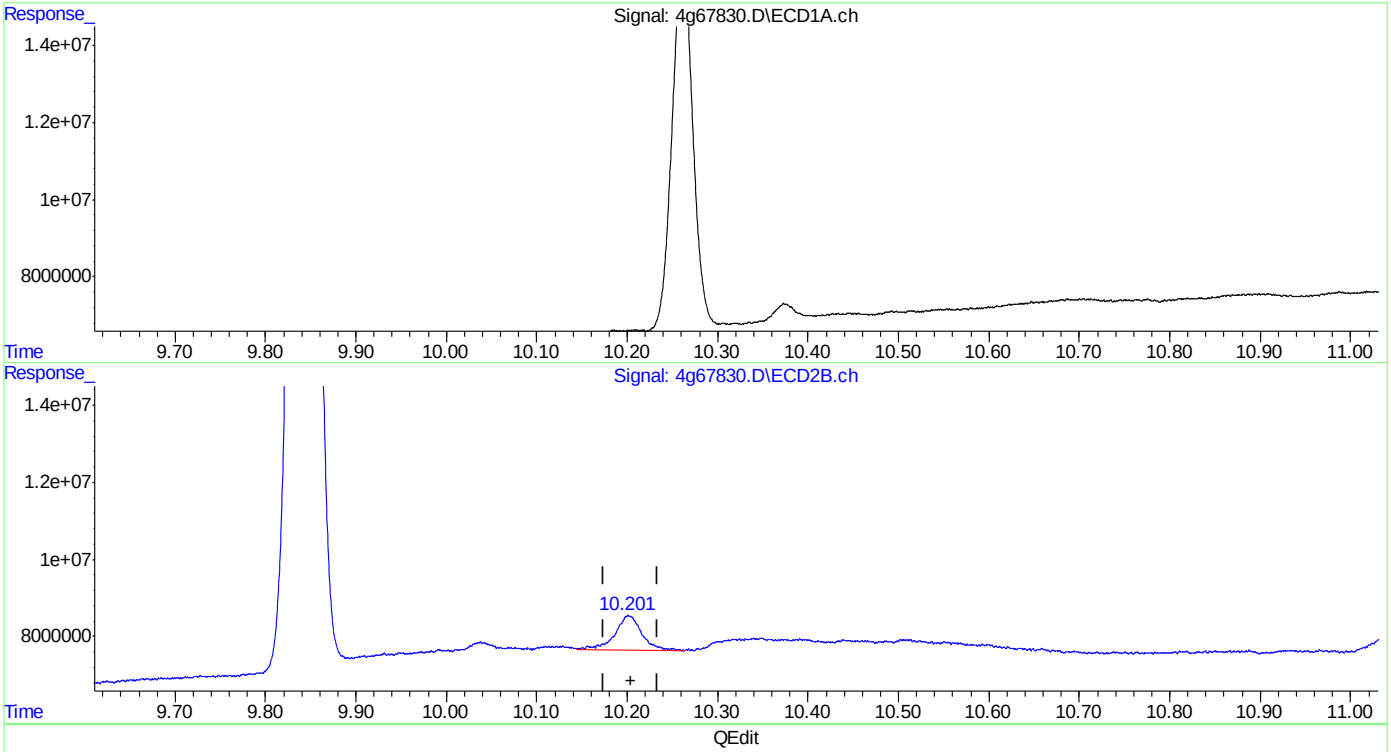
SGS ACCUTEST JC20098

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67830.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 1:55 pm
Operator : dharas
Sample : ddt
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:28:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(23) Endrin Ketone (B)
8.571min 2.578 PPB
response 15245220

(23) Endrin Ketone #2 (B)
10.201min 3.725 PPB m
response 18350578

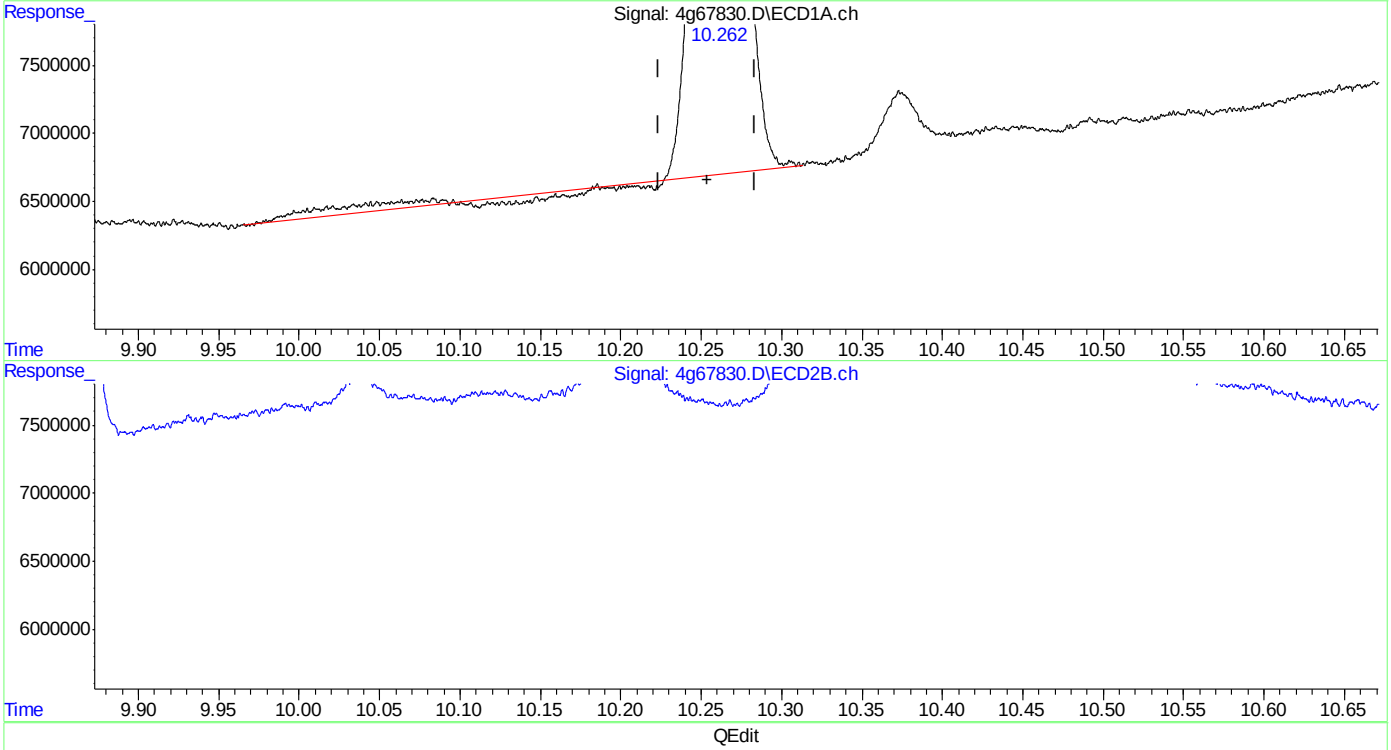
(+) = Expected Retention Time
4PST1778.M Tue May 03 15:30:56 2016 RPT1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67830.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 1:55 pm
Operator : dharas
Sample : ddt
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:28:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(24) Decachlorobiphenyl (SA)
10.262min 28.644 PPB
response 152738547

(24) Decachlorobiphenyl #2 (SA)
11.666min 28.560 PPB
response 107104234

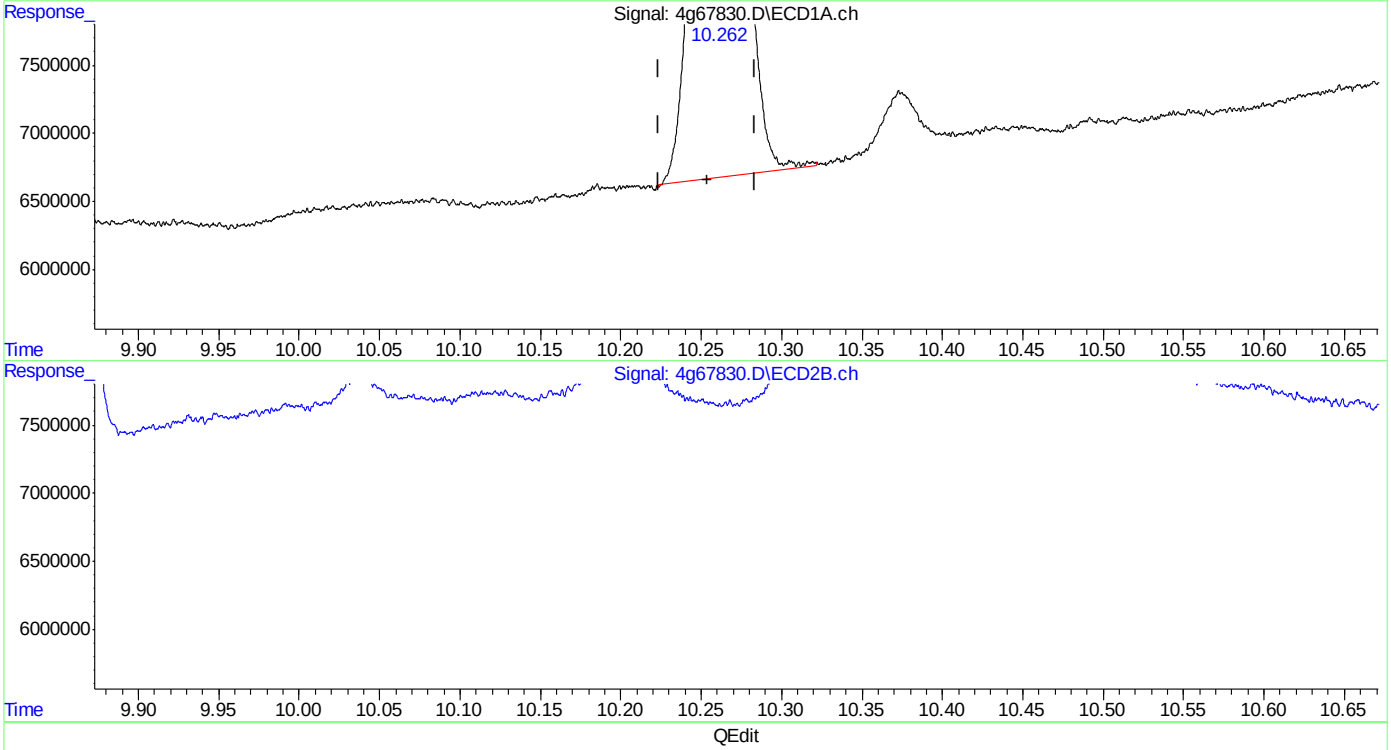
(+) = Expected Retention Time
4PST1778.M Tue May 03 15:31:08 2016 RPT1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67830.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 1:55 pm
Operator : dharas
Sample : ddt
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:28:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(24) Decachlorobiphenyl (SA)
10.262min 28.756 PPB m
response 153337754

(24) Decachlorobiphenyl #2 (SA)
11.666min 28.560 PPB
response 107104234

(+) = Expected Retention Time

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
05/13/16 12:49

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1787\
Data File : 4g68184.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 May 2016 4:37 pm
Operator : dharas
Sample : ddt
Misc : op93485,g4g1787,500,,,5,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 13 11:53:58 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Fri May 13 11:39:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.810f	2.085	420.9E6	367.5E6	50.000	50.000
25) I	1-bromo-2...	1.810	2.085	420.9E6	367.5E6	50.000	50.000
31) I	1-bromo-2...	1.810	2.085	420.9E6	367.5E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	2.588	3.106	154.1E6	139.1E6	21.239	21.494
Spiked Amount		40.000 Range	30 - 150	Recovery	=	53.10%	53.73%
24) SA	Decachlor...	10.227	11.631	173.7E6	108.2E6	25.400	23.580
Spiked Amount		40.000		Recovery	=	63.50%	58.95%
	Target Compounds						
13) B	4,4'-DDE	5.669f	7.101	3127241	5199566	0.421m	0.697m#
15) MA	Endrin	6.401f	7.907	416.6E6	375.4E6	56.015	56.550
16) A	4,4'-DDD	6.551f	8.068f	8315921	11802118	1.321m	1.958 #
18) MA	4,4'-DDT	6.967f	8.609f	634.0E6	667.0E6	102.752m	126.595
19) B	Endrin Al...	7.375f	8.840f	3869363	3080216	0.641m	0.618m
23) B	Endrin Ke...	8.529f	10.181	17727040	15380000	2.337	2.551m

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

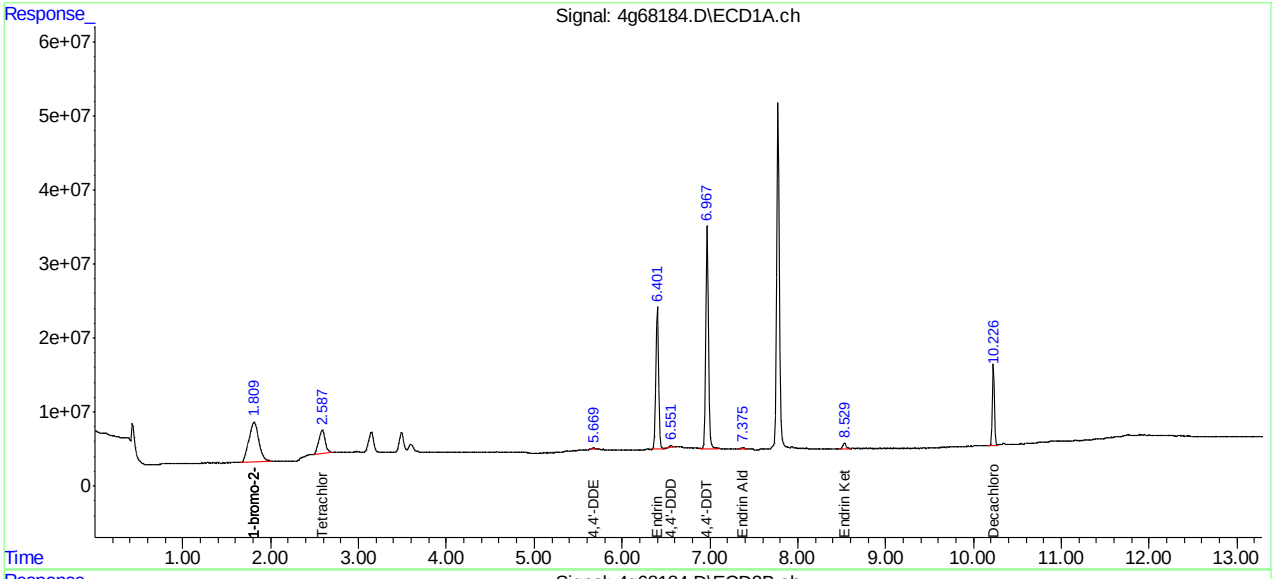
11.5.2
11

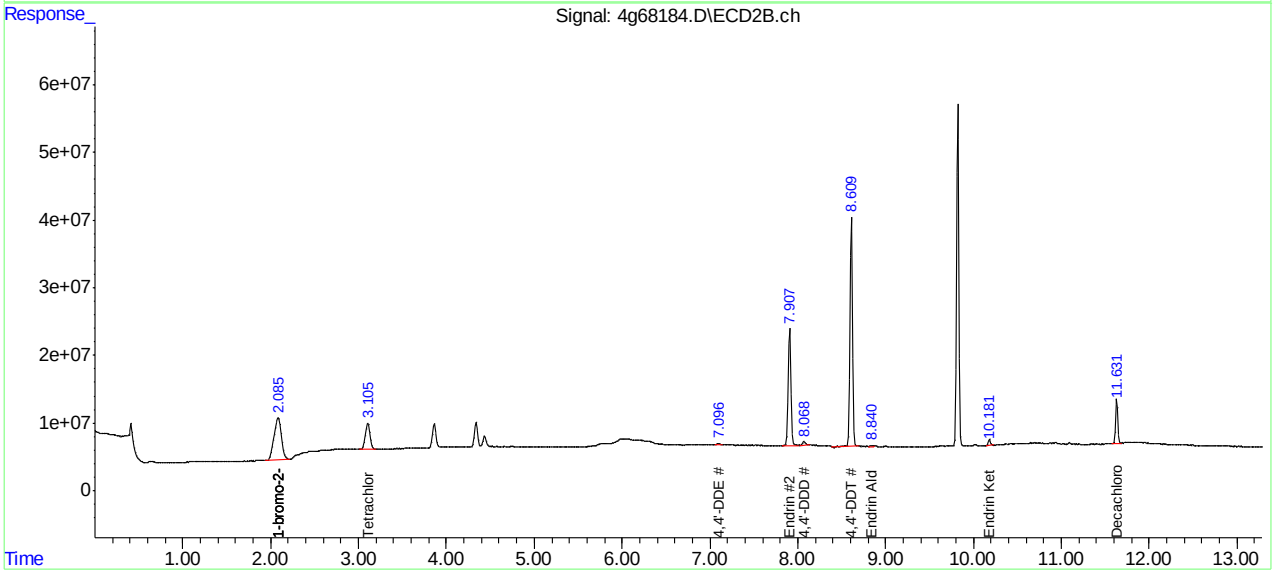
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1787\
Data File : 4g68184.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 May 2016 4:37 pm
Operator : dharas
Sample : ddt
Misc : op93485,g4g1787,500,,,5,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 13 11:53:58 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Fri May 13 11:39:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





Manual Integration Approval Summary

Sample Number:	G4G1787-DDT	**Method:**	SW846 8081B
Lab FileID:	4G68184.D	**Analyst approved:**	05/13/16 11:55 Thomas Lally
Injection Time:	05/12/16 16:37	**Supervisor approved:**	05/13/16 12:49 Gwendolyn Burns

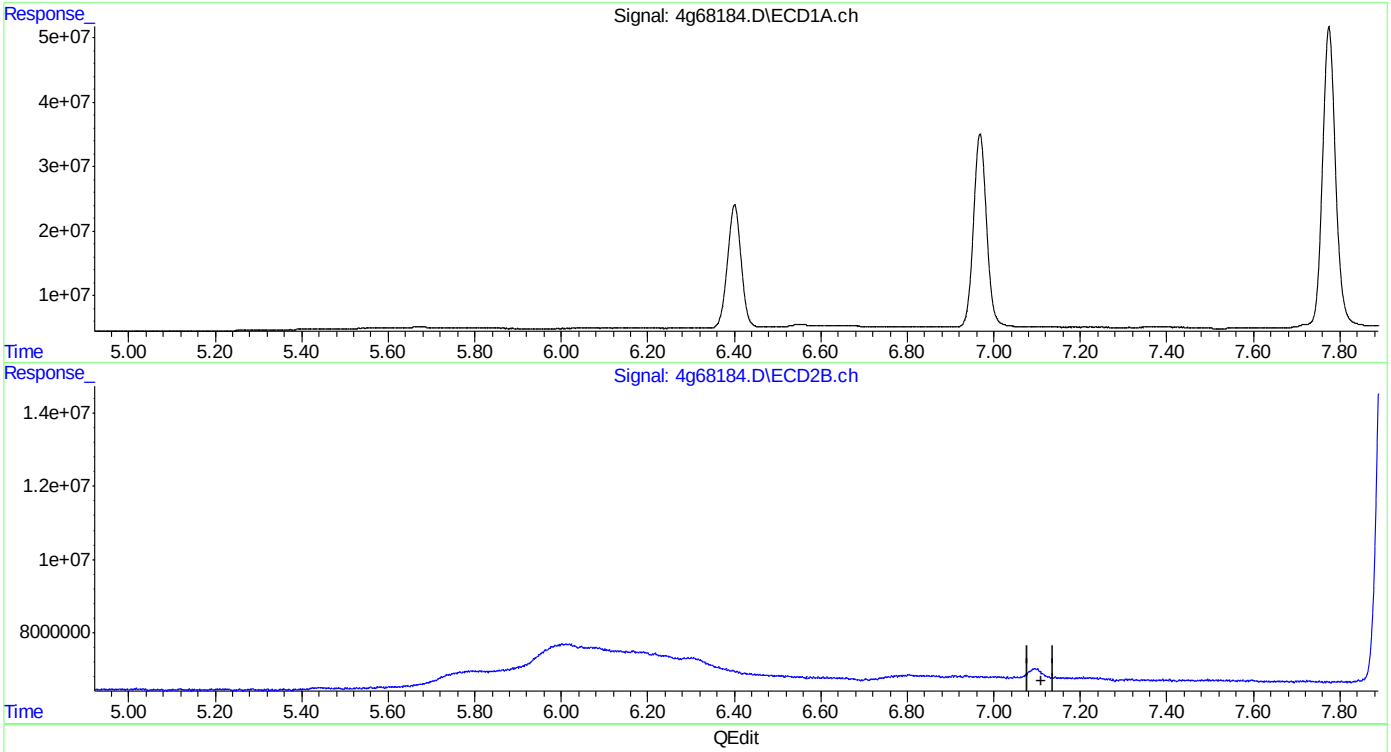
Parameter	CAS	Sig#	R.T. (min.)	Reason
4,4'-DDE	72-55-9	1	5.67	Poor instrument integration
4,4'-DDD	72-54-8	1	6.55	Poor instrument integration
4,4'-DDT	50-29-3	1	6.97	Poor instrument integration
4,4'-DDE	72-55-9	2	7.10	Poor instrument integration
Endrin aldehyde	7421-93-4	1	7.38	Poor instrument integration
Endrin aldehyde	7421-93-4	2	8.84	Poor instrument integration
Endrin ketone	53494-70-5	2	10.18	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1787\
Data File : 4g68184.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 May 2016 4:37 pm
Operator : dharas
Sample : ddt
Misc : op93485,g4g1787,500,,,5,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 13 11:51:42 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Fri May 13 11:39:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(13) 4,4'-DDE (B)
0.000min 0.000 PPB
response 0

(13) 4,4'-DDE #2 (B)
0.000min 0.000 PPB
response 0

(+) = Expected Retention Time

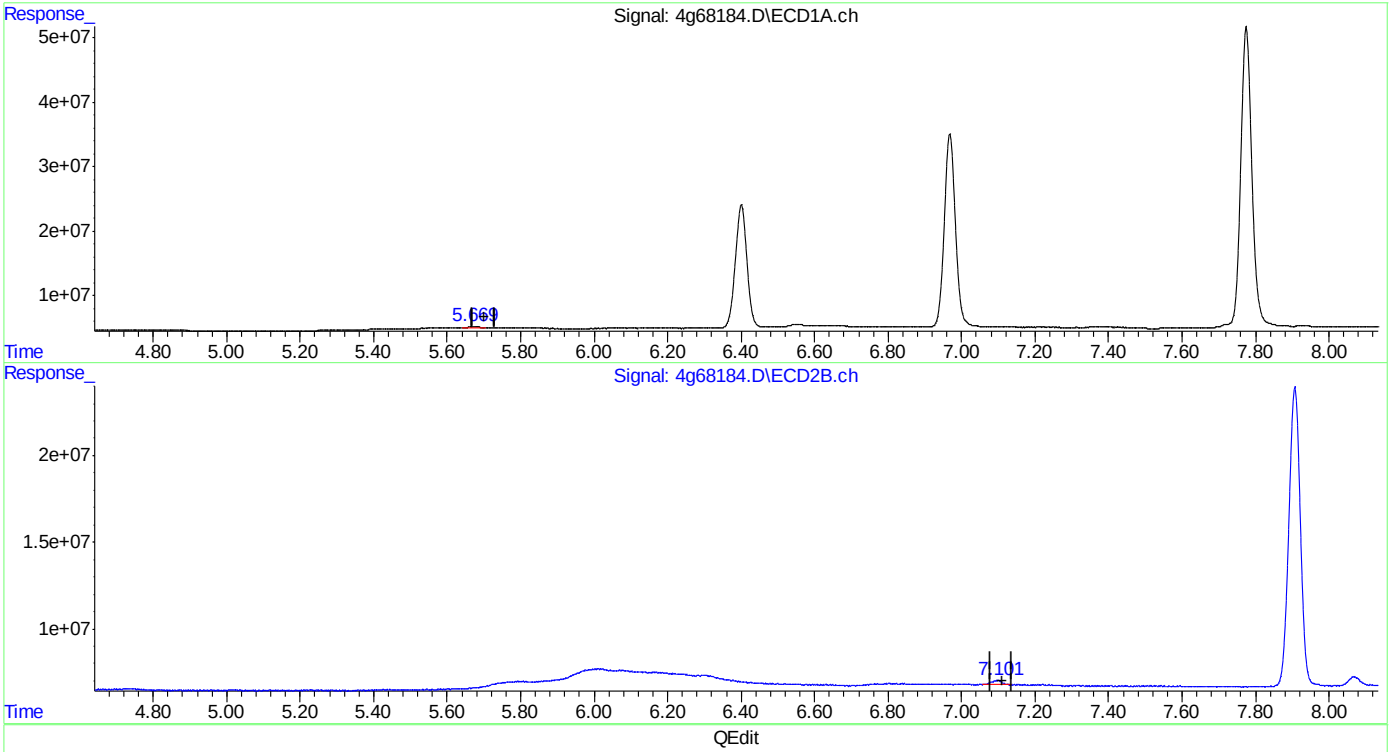
SGS ACCUTEST JC20098

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1787\
Data File : 4g68184.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 May 2016 4:37 pm
Operator : dharas
Sample : ddt
Misc : op93485,g4g1787,500,,,5,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 13 11:51:42 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Fri May 13 11:39:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(13) 4,4'-DDE (B)
5.669min 0.421 PPB m
response 3127241

(13) 4,4'-DDE #2 (B)
7.101min 0.697 PPB m
response 5199566

(+) = Expected Retention Time
4PST1778.M Fri May 13 11:52:51 2016 RPT1

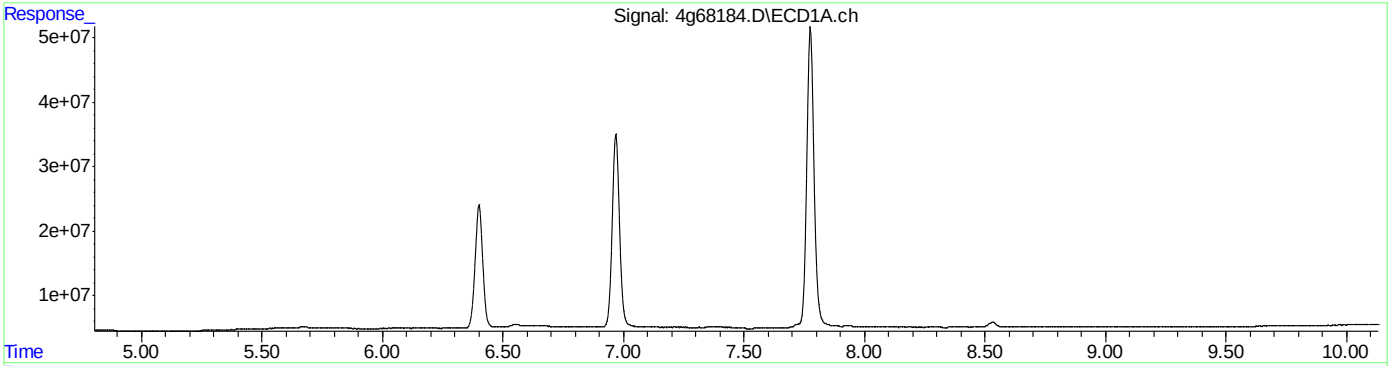
SGS ACCUTEST JC20098

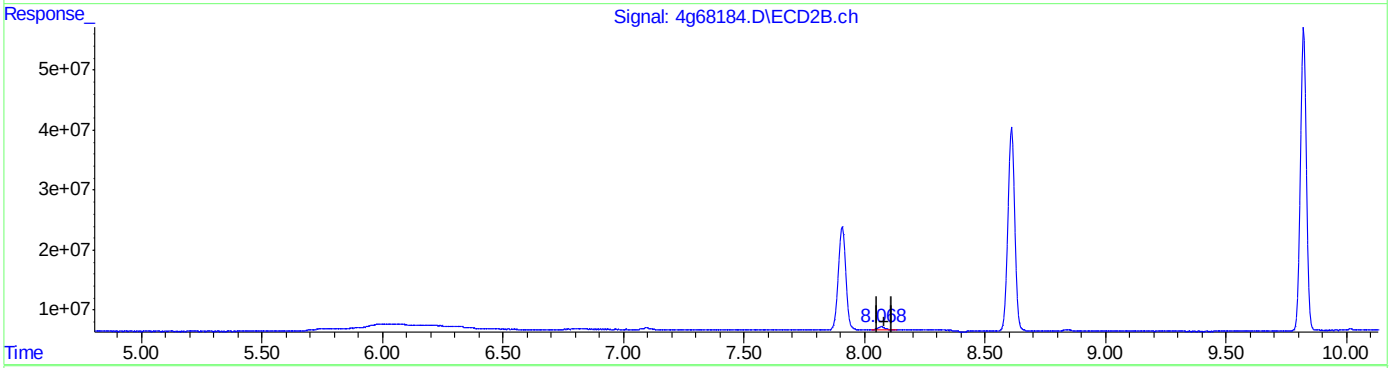
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1787\
Data File : 4g68184.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 May 2016 4:37 pm
Operator : dharas
Sample : ddt
Misc : op93485,g4g1787,500,,,5,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 13 11:51:42 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Fri May 13 11:39:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(16) 4,4'-DDD (A)
0.000min 0.000 PPB
response 0

(16) 4,4'-DDD #2 (A)
8.068min 1.958 PPB
response 11802118

(+) = Expected Retention Time
4PST1778.M Fri May 13 11:52:57 2016 RPT1

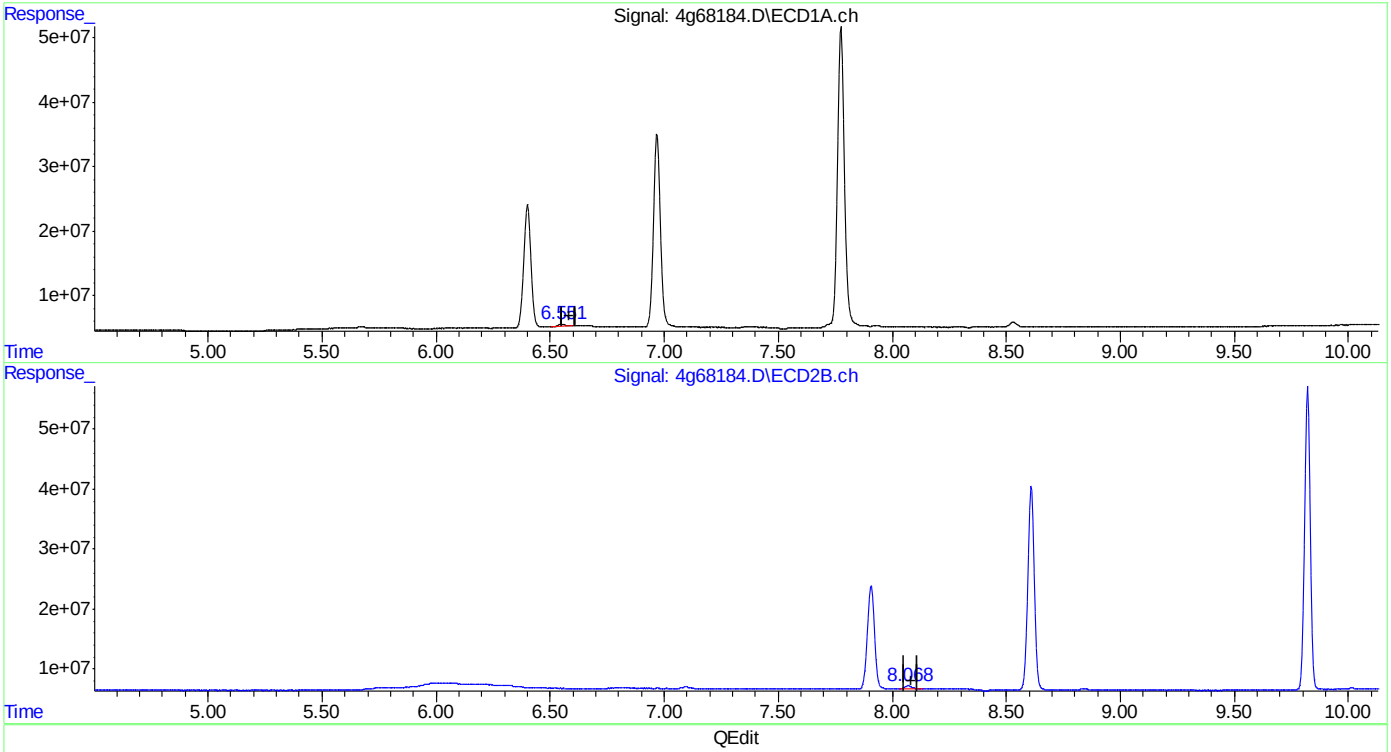
SGS ACCUTEST JC20098

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1787\
Data File : 4g68184.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 May 2016 4:37 pm
Operator : dharas
Sample : ddt
Misc : op93485,g4g1787,500,,,5,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 13 11:51:42 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Fri May 13 11:39:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(16) 4,4'-DDD (A)
6.551min 1.321 PPB m
response 8315921

(16) 4,4'-DDD #2 (A)
8.068min 1.958 PPB
response 11802118

(+) = Expected Retention Time
4PST1778.M Fri May 13 11:53:05 2016 RPT1

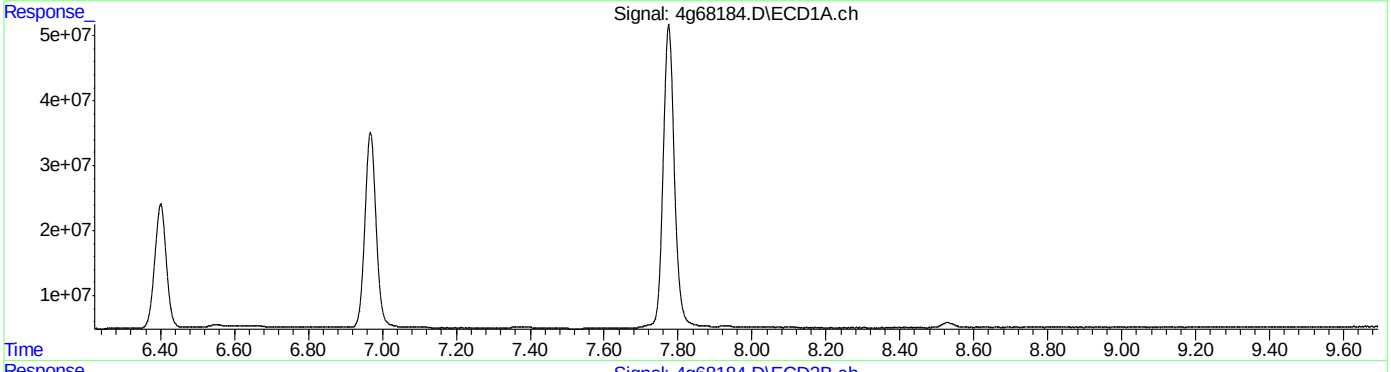
SGS ACCUTEST JC20098

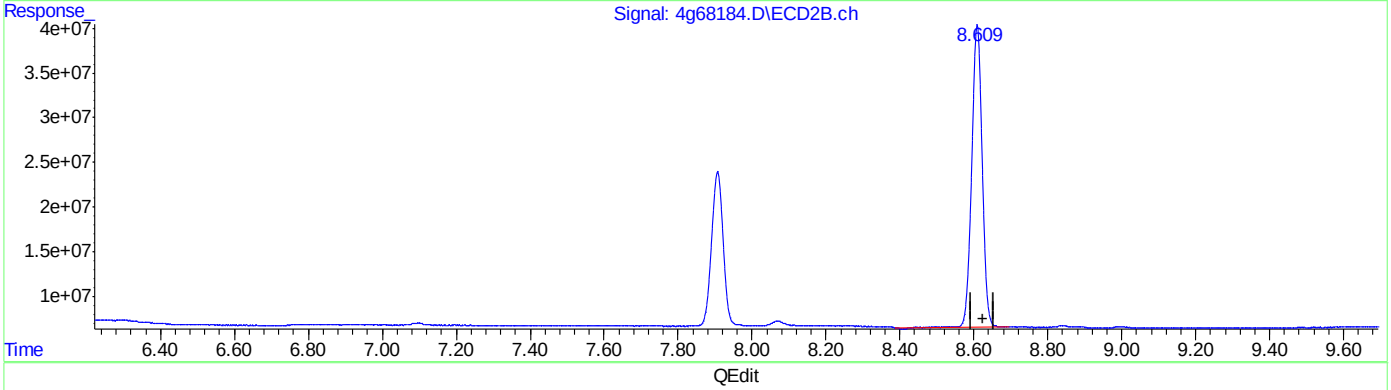
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1787\
Data File : 4g68184.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 May 2016 4:37 pm
Operator : dharas
Sample : ddt
Misc : op93485,g4g1787,500,,,5,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 13 11:51:42 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Fri May 13 11:39:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(18) 4,4'-DDT (MA)
0.000min 0.000 PPB
response 0

(18) 4,4'-DDT #2 (MA)
8.609min 126.595 PPB
response 667035723

(+) = Expected Retention Time

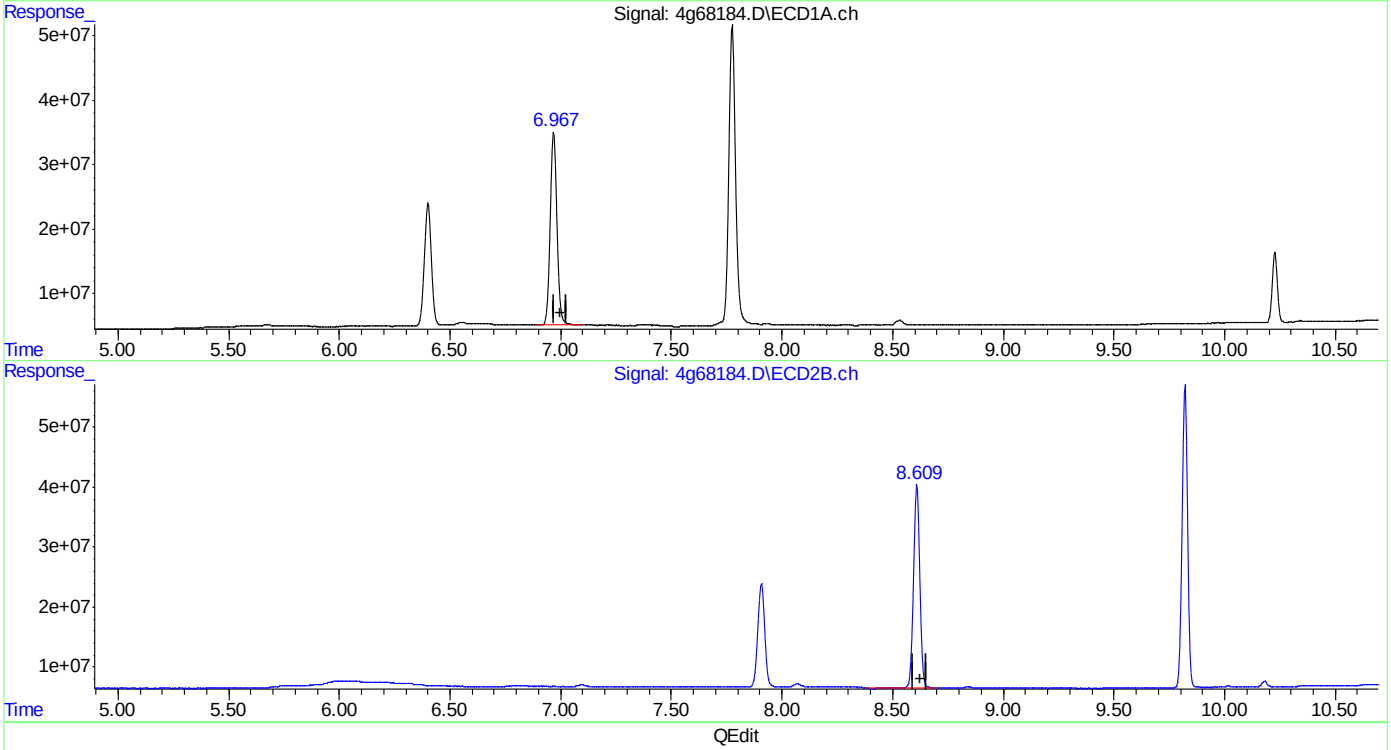
SGS ACCUTEST JC20098

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1787\
Data File : 4g68184.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 May 2016 4:37 pm
Operator : dharas
Sample : ddt
Misc : op93485,g4g1787,500,,,5,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 13 11:51:42 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Fri May 13 11:39:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(18) 4,4'-DDT (MA)
6.967min 102.752 PPB m
response 633980028

(18) 4,4'-DDT #2 (MA)
8.609min 126.595 PPB
response 667035723

(+) = Expected Retention Time

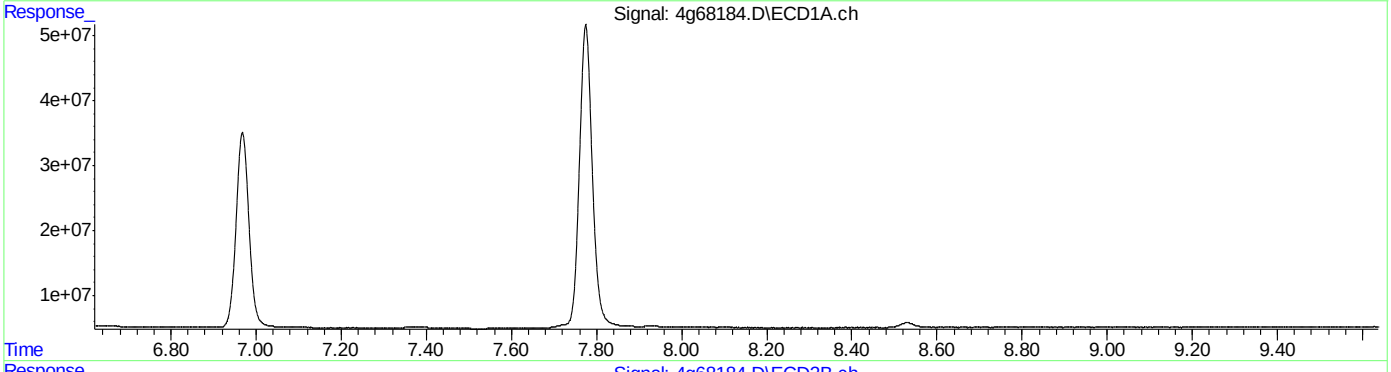
SGS ACCUTEST JC20098

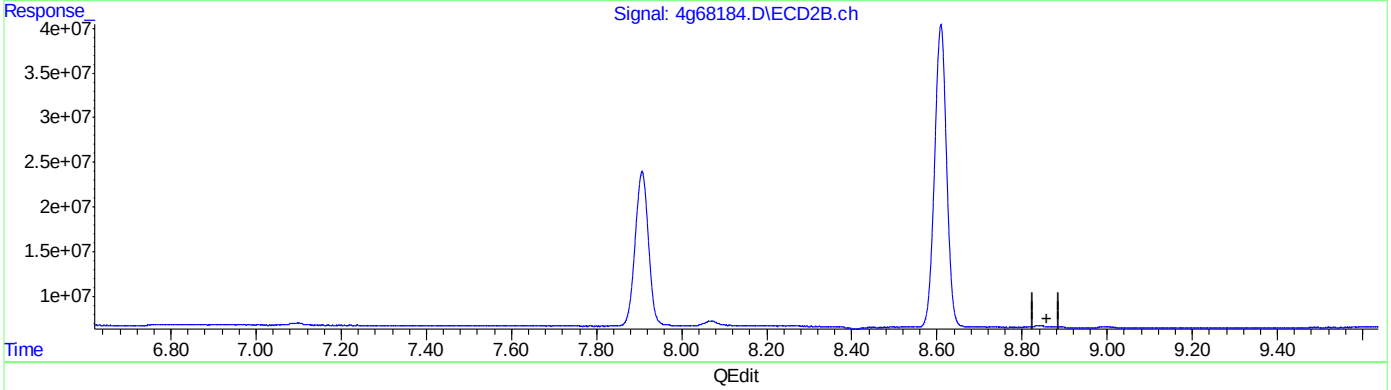
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1787\
Data File : 4g68184.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 May 2016 4:37 pm
Operator : dharas
Sample : ddt
Misc : op93485,g4g1787,500,,,5,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 13 11:51:42 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Fri May 13 11:39:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(19) Endrin Aldehyde (B)
0.000min 0.000 PPB
response 0

(19) Endrin Aldehyde #2 (B)
0.000min 0.000 PPB
response 0

(+) = Expected Retention Time

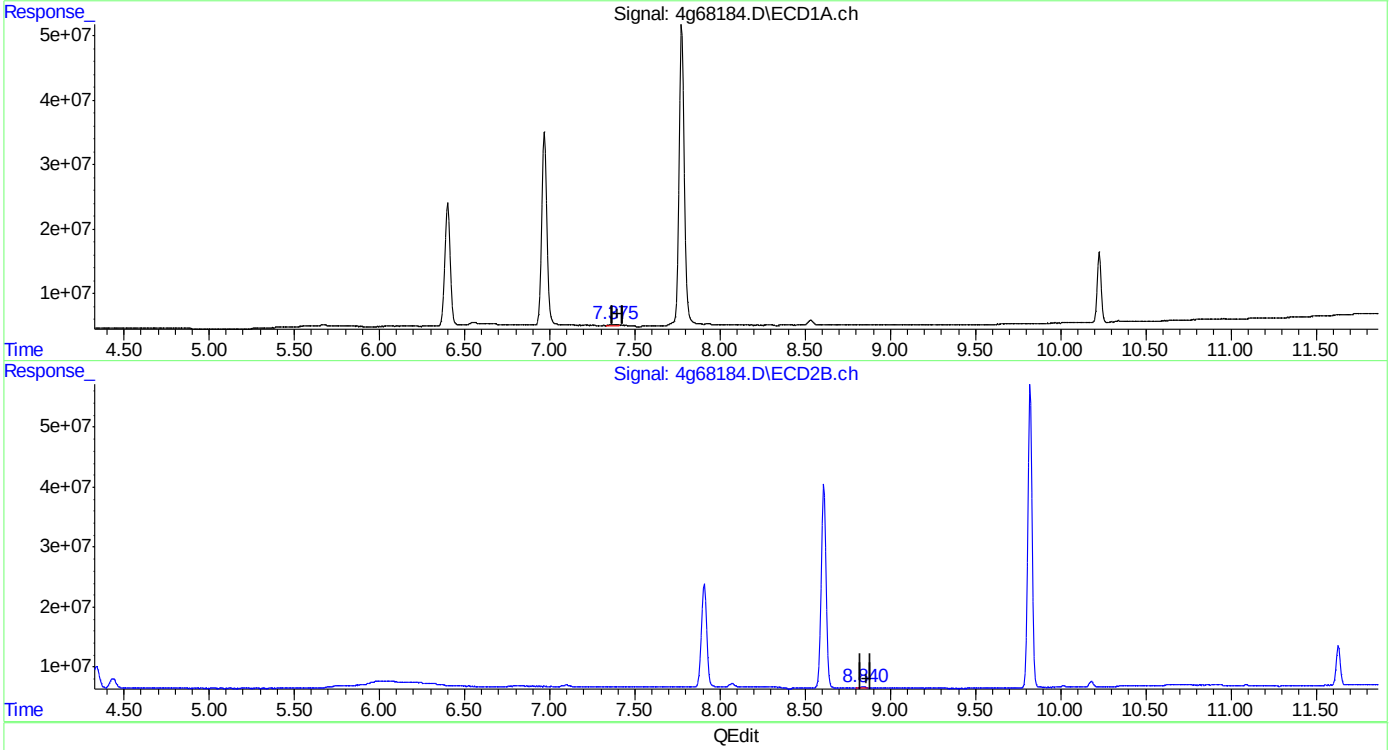
SGS ACCUTEST JC20098

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1787\
Data File : 4g68184.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 May 2016 4:37 pm
Operator : dharas
Sample : ddt
Misc : op93485,g4g1787,500,,,5,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 13 11:51:42 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Fri May 13 11:39:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



(19) Endrin Aldehyde (B)
7.375min 0.641 PPB m
response 3869363

(19) Endrin Aldehyde #2 (B)
8.840min 0.618 PPB m
response 3080216

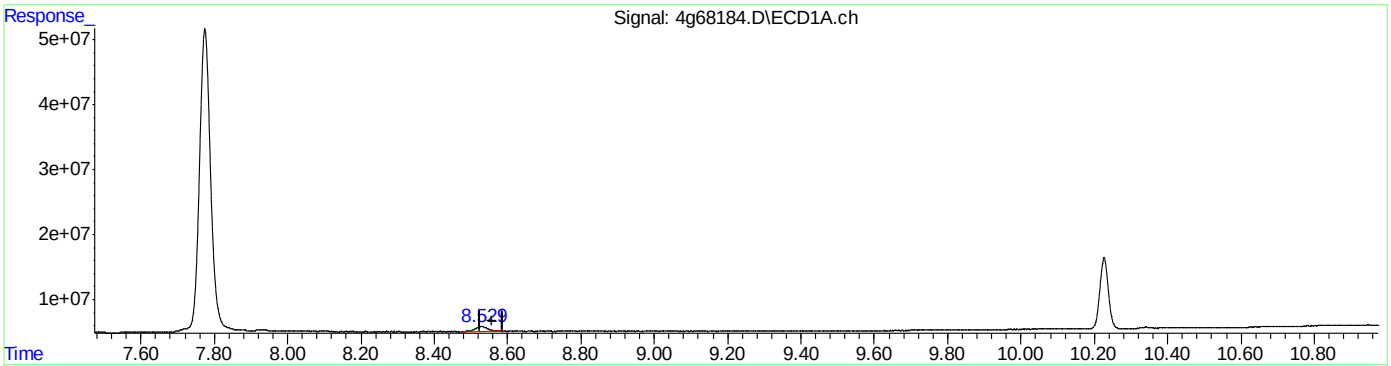
(+) = Expected Retention Time
4PST1778.M Fri May 13 11:53:50 2016 RPT1

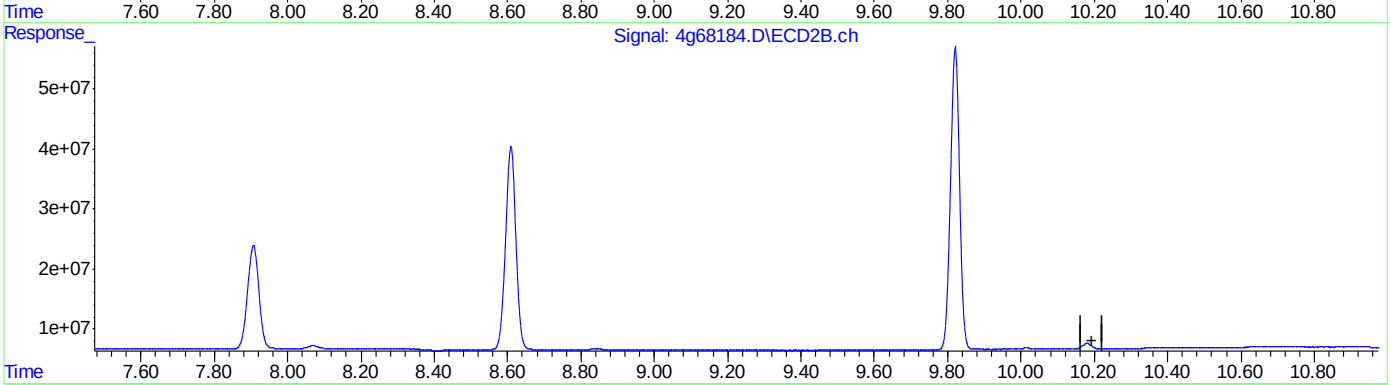
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\4G1787\
Data File : 4g68184.D
Signal(s) : Signal #1: ECD1A.ch  Signal #2: ECD2B.ch
Acq On    : 12 May 2016   4:37 pm
Operator  : dharas
Sample    : ddt
Misc      : op93485,g4g1787,500,,,5,1
ALS Vial  : 1   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 13 11:51:42 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title  : PEST/PCB
QLast Update : Fri May 13 11:39:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.     : 1ul/column
Signal #1 Phase : RTXCLP I          Signal #2 Phase: RTX-CLP II
Signal #1 Info  : 30mx.32mmx.32um   Signal #2 Info : 30m x .32mm x .25um
```





QEdit

(23) Endrin Ketone (B)

8.529min 2.337 PPB

response 17727040

(23) Endrin Ketone #2 (B)

0.000min 0.000 PPB

response 0

(+) = Expected Retention Time

4PST1778.M Fri May 13 11:53:55 2016 RPT1

SGS ACCUTEST JC20098

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 04/18/16 14:12

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34128.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 3:16 pm
Operator : dharas
Sample : ddt
Misc : op92908,g6g987,6.8,,,10,5
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 11:42:40 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon Apr 18 11:27:24 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.320	1.584	129.3E6	43986456	50.000	50.000
25) I	1-bromo-2...	1.320	1.584	129.3E6	43986456	50.000	50.000
31) I	1-bromo-2...	1.320	1.584	129.3E6	43986456	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	1.995	2.479	45371018	16357012	19.148	20.583
Spiked Amount		40.000	Range	30 - 150	Recovery	= 47.87%	51.46%
24) SAB	Decachlor...	9.934	11.769	44657093	13929406	21.674	23.312
Spiked Amount		40.000			Recovery	= 54.18%	58.28%
	Target Compounds						
13) B	4,4'-DDE	4.944	6.453	1018177	323855	0.498m	0.455m
15) MA	Endrin	5.682	7.268	120.9E6	37292116	55.394	50.157
16) A	4,4'-DDD	5.833	7.488	1311683	538829	0.759m	0.878m
18) MA	4,4'-DDT	6.281	8.068	241.7E6	69919881	128.653	125.525
19) B	Endrin Al...	6.695	8.285	837149	354536	0.477m	0.601m#
23) B	Endrin Ke...	7.904	9.843	4035110	1631820	1.794	2.182
	SemiQuant Compounds - Not Calibrated on this Instrument						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

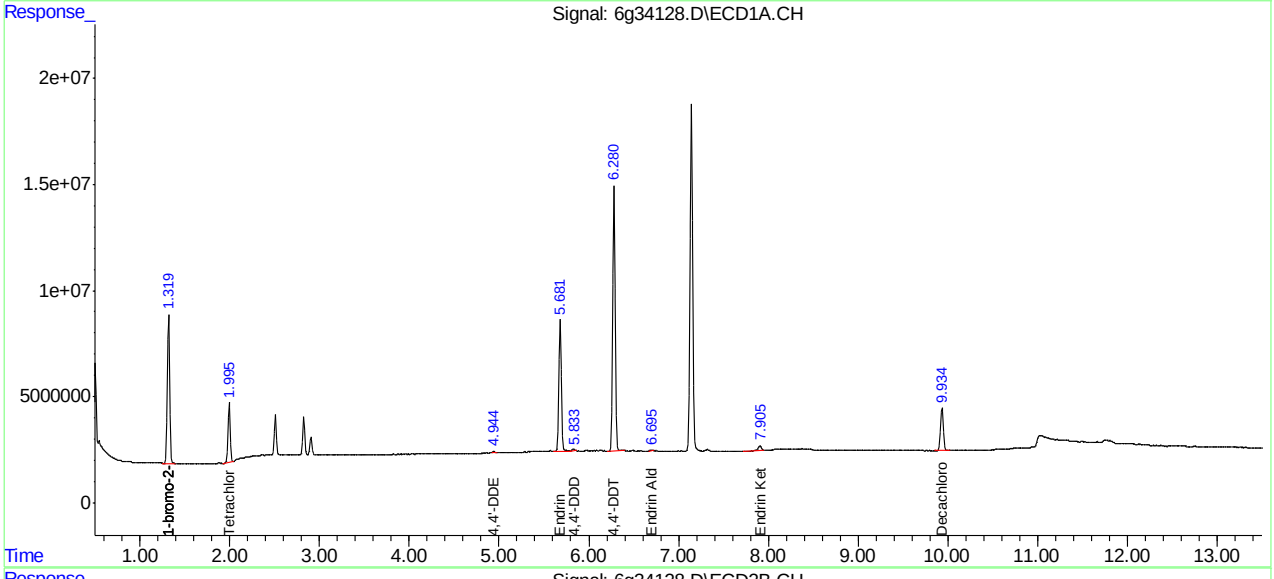
11.5.3 11

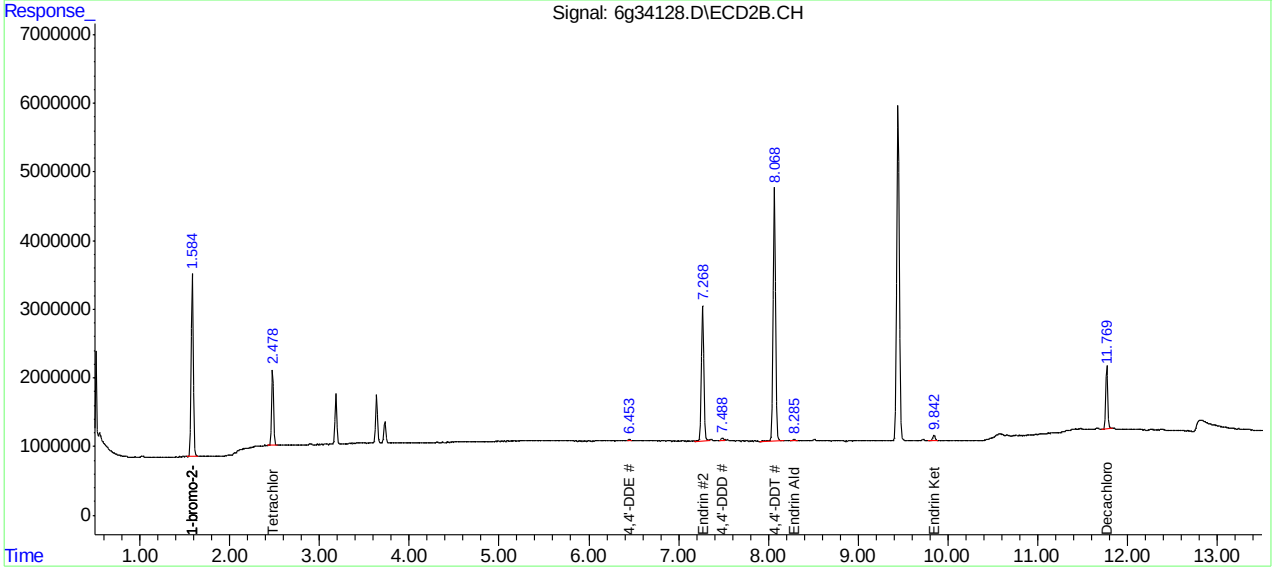
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34128.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 3:16 pm
Operator : dharas
Sample : ddt
Misc : op92908,g6g987,6.8,,,10,5
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 11:42:40 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon Apr 18 11:27:24 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





Manual Integration Approval Summary

Sample Number:	G6G987-DDT	**Method:**	SW846 8081B
Lab FileID:	6G34128.D	**Analyst approved:**	04/18/16 12:23 Dhara Saparia
Injection Time:	04/14/16 15:16	**Supervisor approved:**	04/18/16 14:12 Gwendolyn Burns

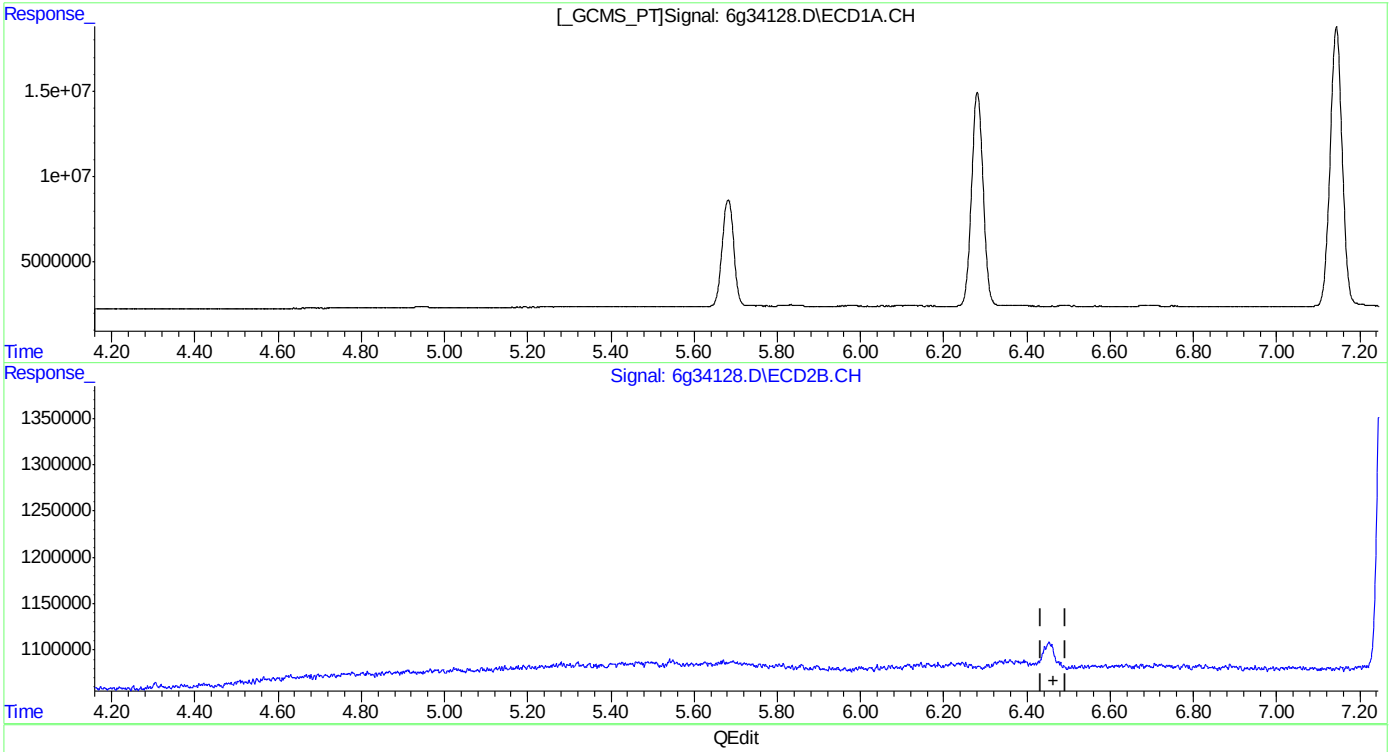
Parameter	CAS	Sig#	R.T. (min.)	Reason
4,4'-DDE	72-55-9	1	4.94	Poor instrument integration
4,4'-DDD	72-54-8	1	5.83	Poor instrument integration
4,4'-DDE	72-55-9	2	6.45	Poor instrument integration
Endrin aldehyde	7421-93-4	1	6.70	Poor instrument integration
4,4'-DDD	72-54-8	2	7.49	Poor instrument integration
Endrin aldehyde	7421-93-4	2	8.28	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34128.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 3:16 pm
Operator : dharas
Sample : ddt
Misc : op92908,g6g987,6.8,,,10,5
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 11:40:56 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon Apr 18 11:27:24 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um



QEdit

(13) 4,4'-DDE (B)
0.000min 0.000PPB
response 0

(13) 4,4'-DDE #2 (B)
0.000min 0.000PPB
response 0

(+) = Expected Retention Time
6PST987.M Mon Apr 18 11:41:26 2016

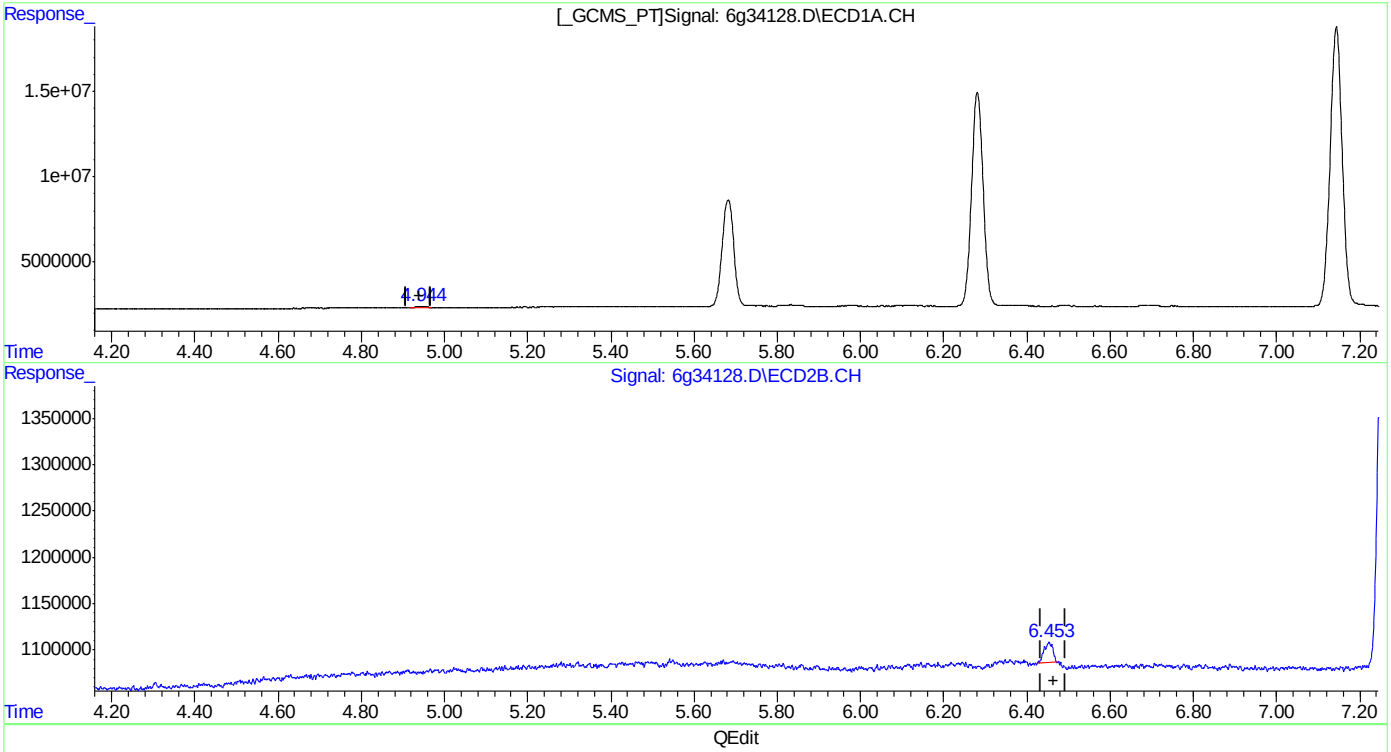
SGS ACCUTEST JC20098

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34128.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 3:16 pm
Operator : dharas
Sample : ddt
Misc : op92908,g6g987,6.8,,,10,5
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 11:40:56 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon Apr 18 11:27:24 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um



QEdit

(13) 4,4'-DDE (B)
4.944min 0.498PPB m
response 1018177

(13) 4,4'-DDE #2 (B)
6.453min 0.455PPB m
response 323855

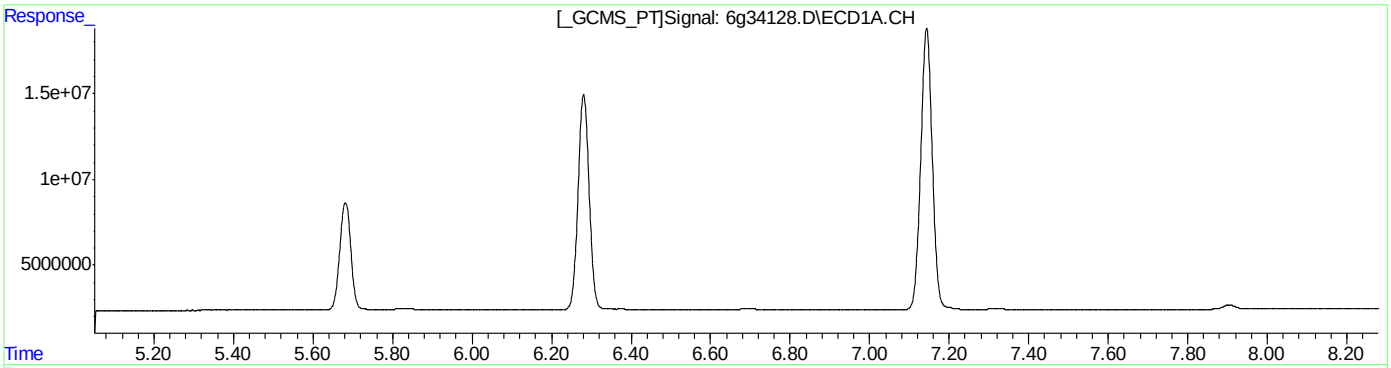
(+) = Expected Retention Time
6PST987.M Mon Apr 18 11:41:43 2016

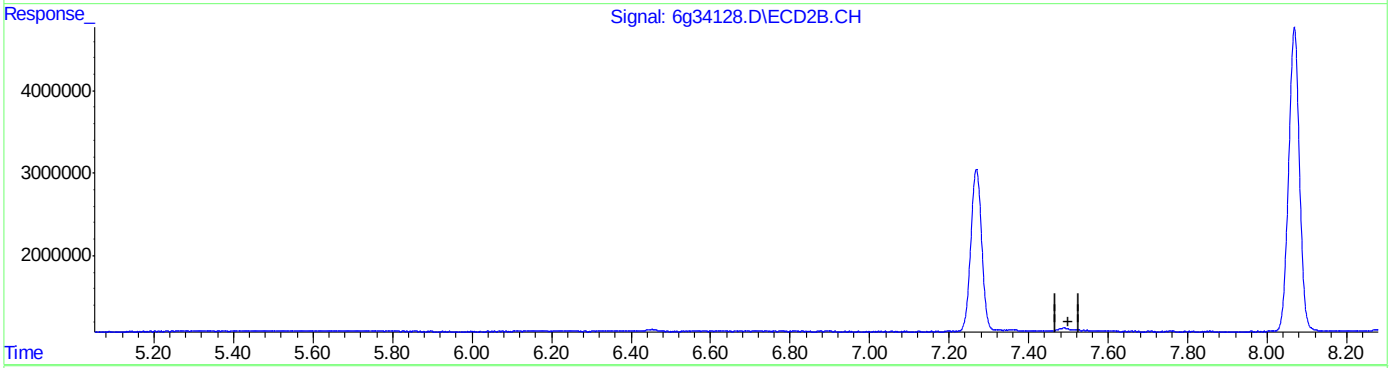
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34128.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 3:16 pm
Operator : dharas
Sample : ddt
Misc : op92908,g6g987,6.8,,,10,5
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 11:40:56 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon Apr 18 11:27:24 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





QEdit

(16) 4,4'-DDD (A)
0.000min 0.000PPB
response 0

(16) 4,4'-DDD #2 (A)
0.000min 0.000PPB
response 0

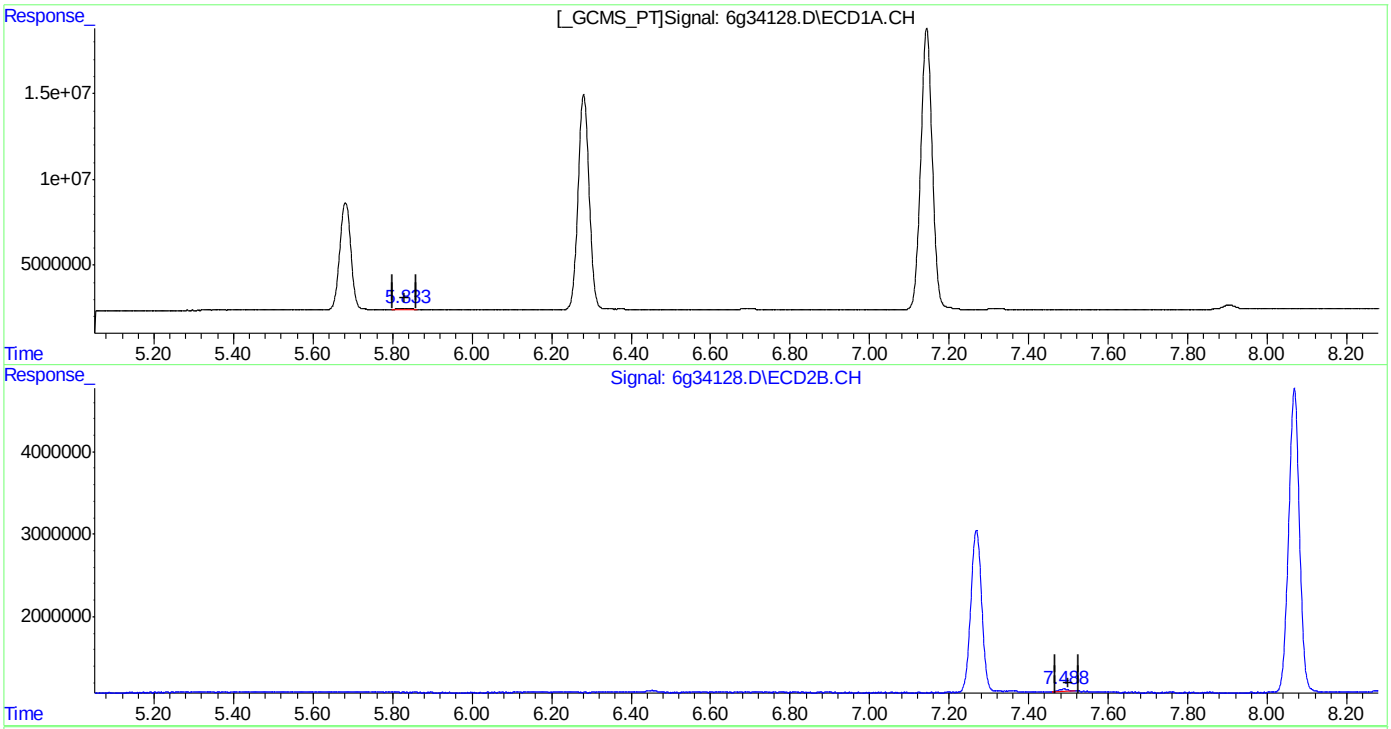
(+) = Expected Retention Time

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34128.D
Signal(s) : Signal #1: ECD1A.CH  Signal #2: ECD2B.CH
Acq On    : 14 Apr 2016   3:16 pm
Operator  : dharas
Sample    : ddt
Misc      : op92908,g6g987,6.8,,,10,5
ALS Vial  : 1   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 11:40:56 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title  : PEST/PCB
QLast Update : Mon Apr 18 11:27:24 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     : 1ul/column
Signal #1 Phase : RTXCLP I          Signal #2 Phase: RTX-CLP II
Signal #1 Info  : 30mx.32mmx.50um   Signal #2 Info : 30m x .32mm x .25um
```



QEdit

(16) 4,4'-DDD (A)
5.833min 0.759PPB m
response 1311683

(16) 4,4'-DDD #2 (A)
7.488min 0.878PPB m
response 538829

(+) = Expected Retention Time

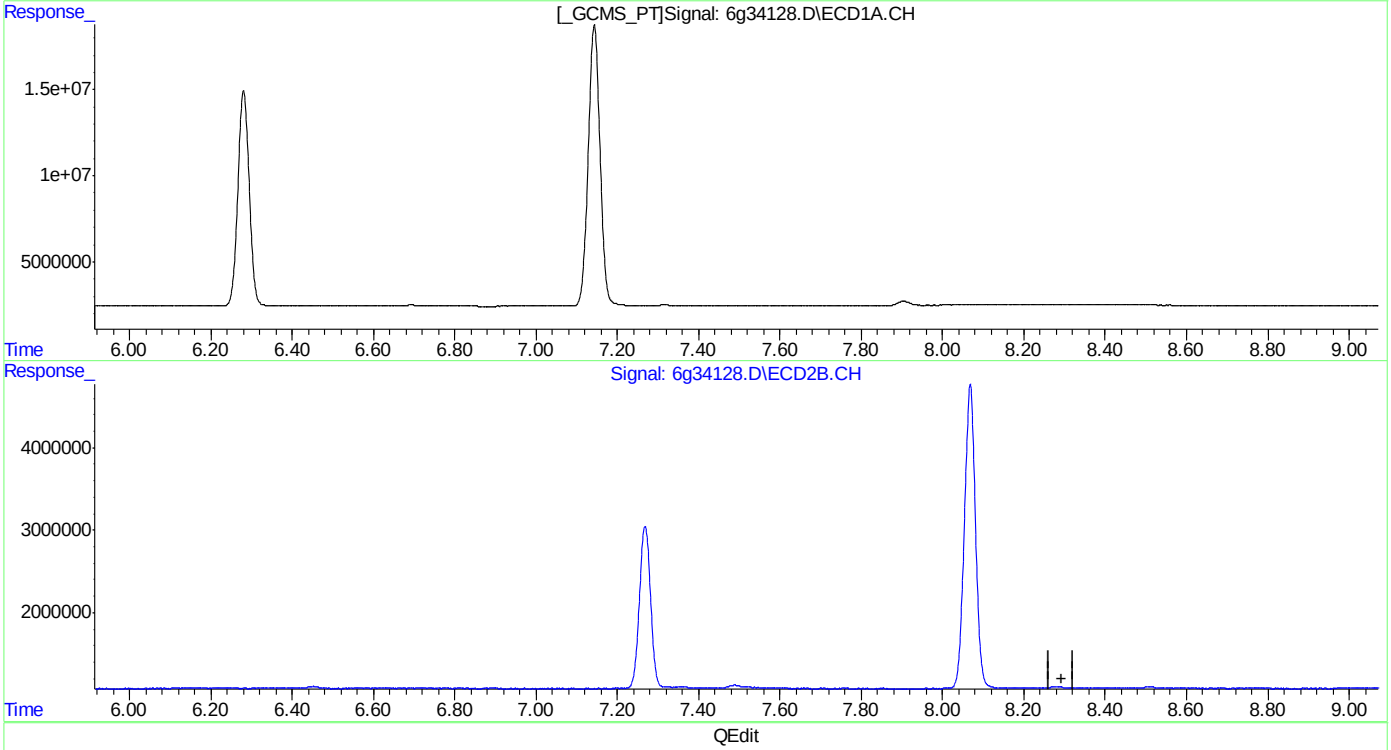
SGS ACCUTEST JC20098

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34128.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 3:16 pm
Operator : dharas
Sample : ddt
Misc : op92908,g6g987,6.8,,,10,5
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 11:40:56 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon Apr 18 11:27:24 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um



QEdit

(19) Endrin Aldehyde (B)
0.000min 0.000PPB
response 0

(19) Endrin Aldehyde #2 (B)
0.000min 0.000PPB
response 0

(+) = Expected Retention Time

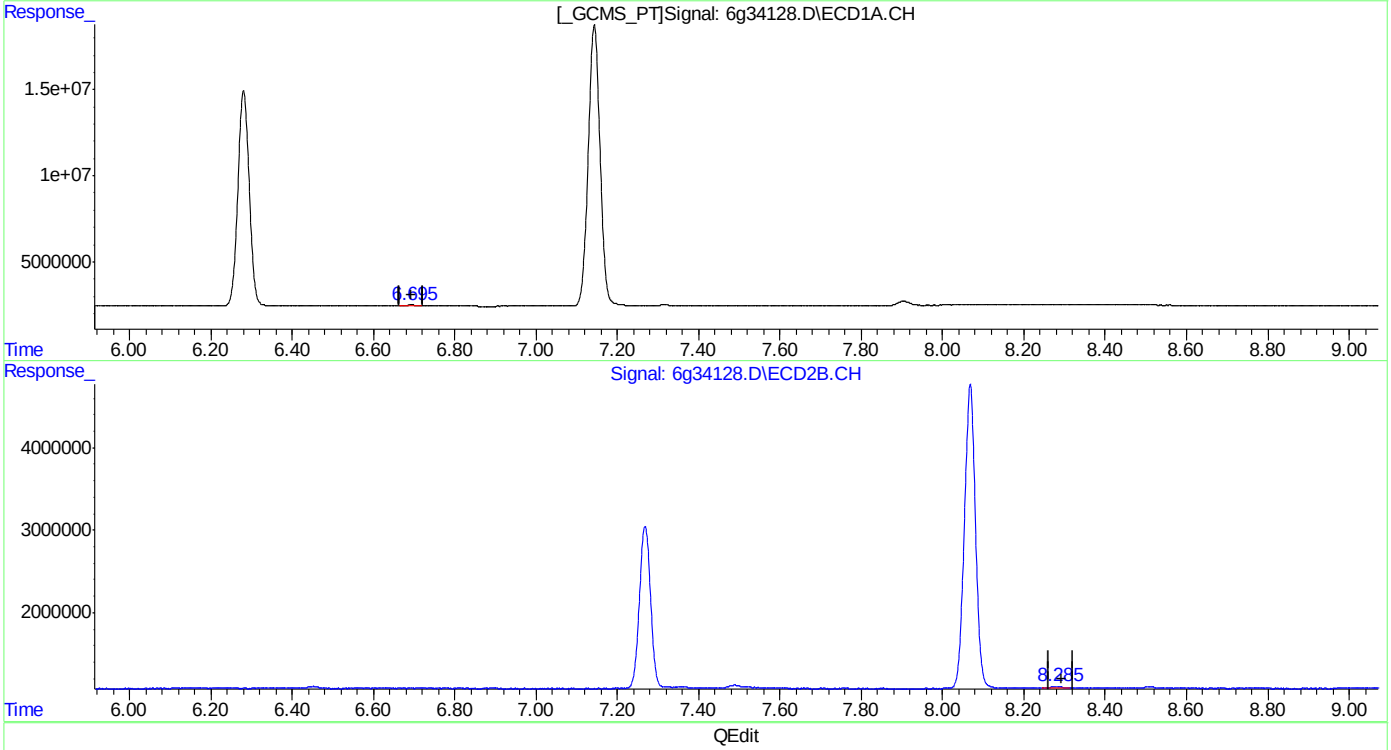
SGS ACCUTEST JC20098

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34128.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 3:16 pm
Operator : dharas
Sample : ddt
Misc : op92908,g6g987,6.8,,,10,5
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 11:40:56 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon Apr 18 11:27:24 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um



QEdit

(19) Endrin Aldehyde (B)
6.695min 0.477PPB m
response 837149

(19) Endrin Aldehyde #2 (B)
8.285min 0.601PPB m
response 354536

(+) = Expected Retention Time
6PST987.M Mon Apr 18 11:42:42 2016

SGS ACCUTEST JC20098

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
05/13/16 11:16

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1010\
Data File : 6g35033.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 May 2016 9:04 am
Operator : dharas
Sample : ddt
Misc : op93838,g6g1010,15.8,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 13 10:43:33 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Wed May 11 16:27:57 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.293	1.565	164.6E6	61533504	50.000	50.000
25) I	1-bromo-2...	1.293	1.565	164.6E6	61533504	50.000	50.000
31) I	1-bromo-2...	1.293	1.565	164.6E6	61533504	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	1.968	2.457	62535306	23475579	20.728	21.116
Spiked Amount		40.000	Range	30 - 150	Recovery	= 51.82%	52.79%
24) SAB	Decachlor...	9.884	11.733	53006888	19741917	20.206	23.618
Spiked Amount		40.000			Recovery	= 50.52%	59.04%
	Target Compounds						
13) B	4,4'-DDE	4.904	6.405	873583	362417	0.336m	0.364m
15) MA	Endrin	5.633	7.221	146.3E6	52675190	52.621	50.644
16) A	4,4'-DDD	5.785	7.451	913107	1118577	0.415m	1.303m#
18) MA	4,4'-DDT	6.234	8.020	270.0E6	89052964	112.860	114.284
19) B	Endrin Al...	6.643	8.231	1118465	515702	0.500m	0.625m
23) B	Endrin Ke...	7.852	9.790	6002712	2461035	2.096	2.352m

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

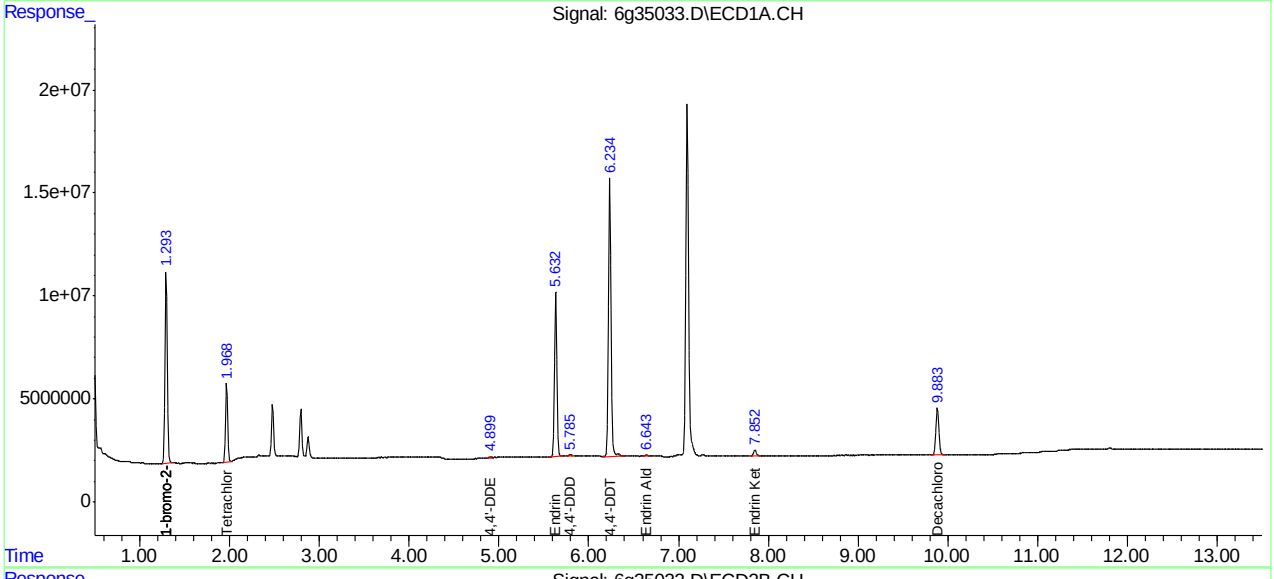
11.5.4 11

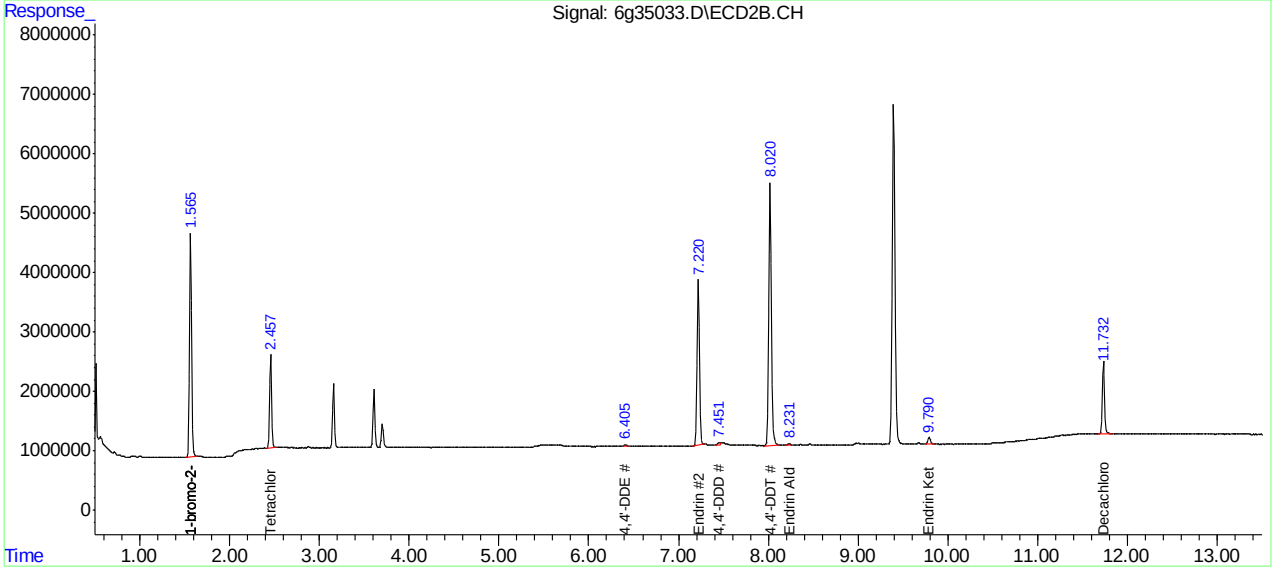
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1010\
Data File : 6g35033.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 May 2016 9:04 am
Operator : dharas
Sample : ddt
Misc : op93838,g6g1010,15.8,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 13 10:43:33 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Wed May 11 16:27:57 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





Manual Integration Approval Summary

Sample Number:	G6G1010-DDT	**Method:**	SW846 8081B
Lab FileID:	6G35033.D	**Analyst approved:**	05/13/16 11:12 Dhara Saparia
Injection Time:	05/13/16 09:04	**Supervisor approved:**	05/13/16 11:16 Gwendolyn Burns

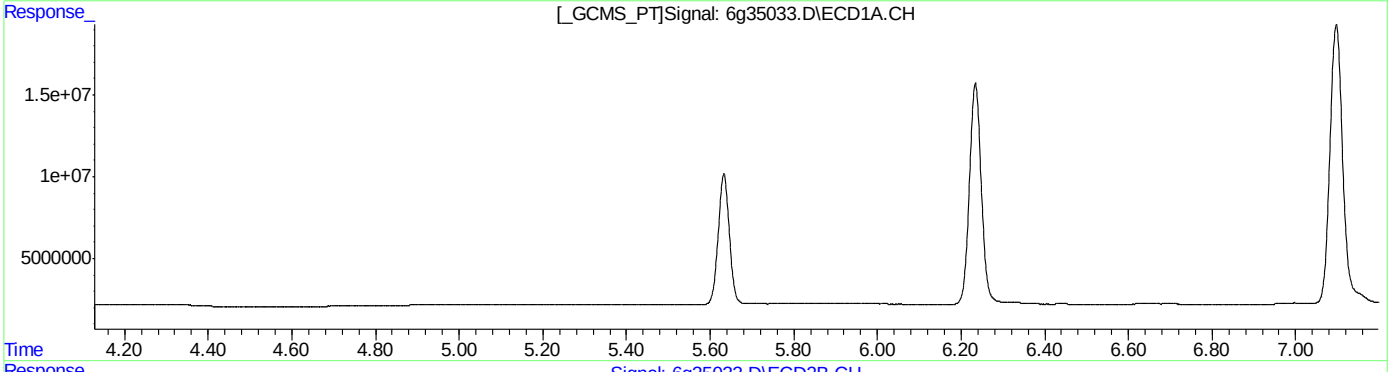
Parameter	CAS	Sig#	R.T. (min.)	Reason
4,4'-DDE	72-55-9	1	4.90	Poor instrument integration
4,4'-DDD	72-54-8	1	5.78	Poor instrument integration
4,4'-DDE	72-55-9	2	6.40	Poor instrument integration
Endrin aldehyde	7421-93-4	1	6.64	Poor instrument integration
4,4'-DDD	72-54-8	2	7.45	Poor instrument integration
Endrin aldehyde	7421-93-4	2	8.23	Poor instrument integration
Endrin ketone	53494-70-5	2	9.79	Poor instrument integration

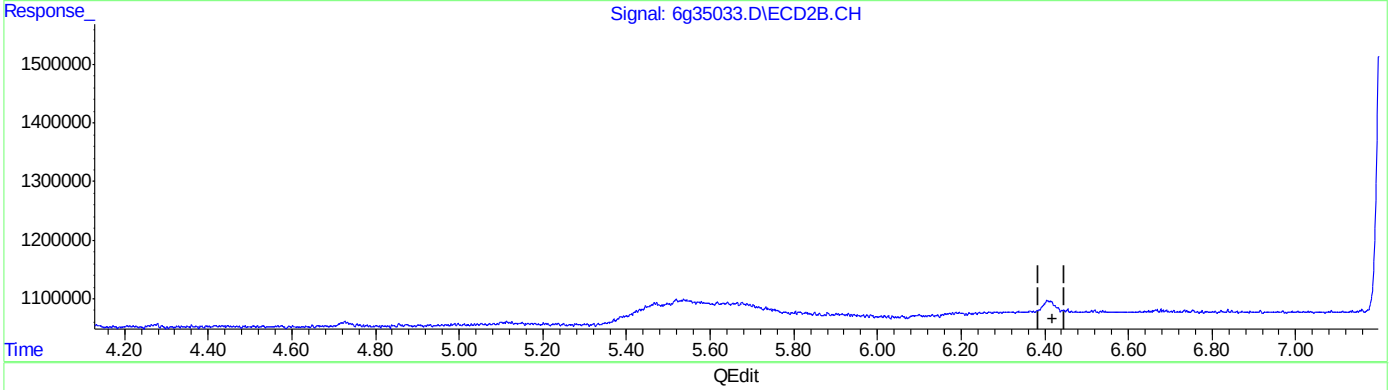
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1010\
Data File : 6g35033.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 May 2016 9:04 am
Operator : dharas
Sample : ddt
Misc : op93838,g6g1010,15.8,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 13 10:41:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Wed May 11 16:27:57 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





QEdit

(13) 4,4'-DDE (B)
0.000min 0.000PPB
response 0

(13) 4,4'-DDE #2 (B)
0.000min 0.000PPB
response 0

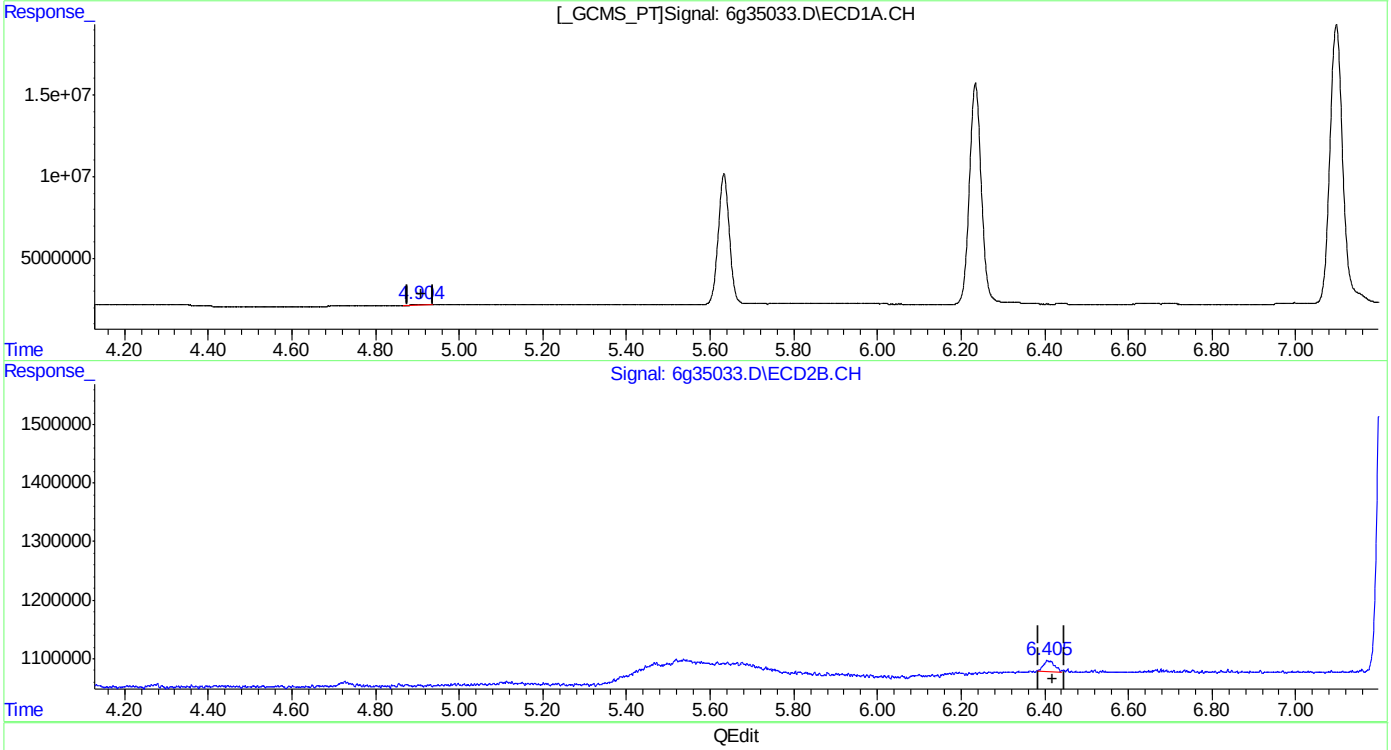
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1010\
Data File : 6g35033.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 May 2016 9:04 am
Operator : dharas
Sample : ddt
Misc : op93838,g6g1010,15.8,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 13 10:41:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Wed May 11 16:27:57 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um



QEdit

(13) 4,4'-DDE (B)
4.904min 0.336PPB m
response 873583

(13) 4,4'-DDE #2 (B)
6.405min 0.364PPB m
response 362417

(+) = Expected Retention Time

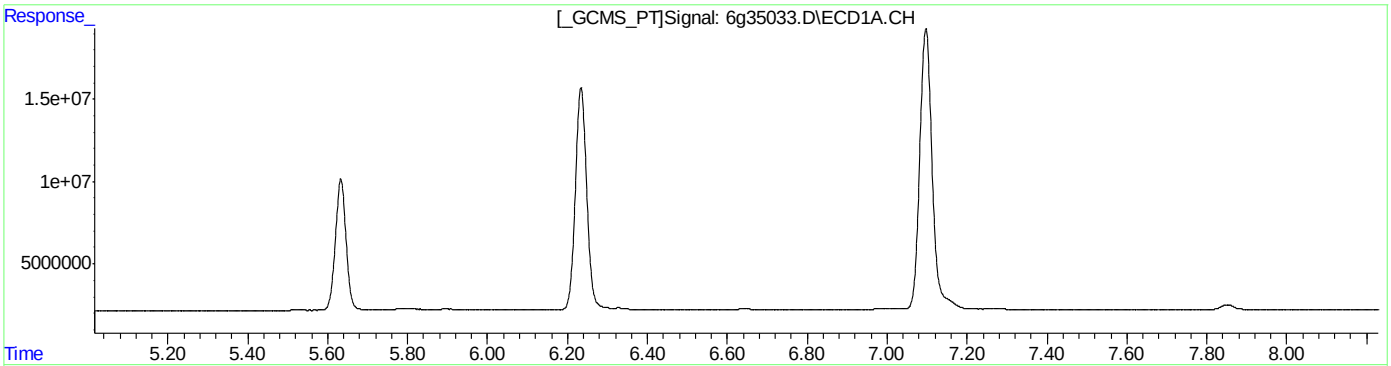
SGS ACCUTEST JC20098

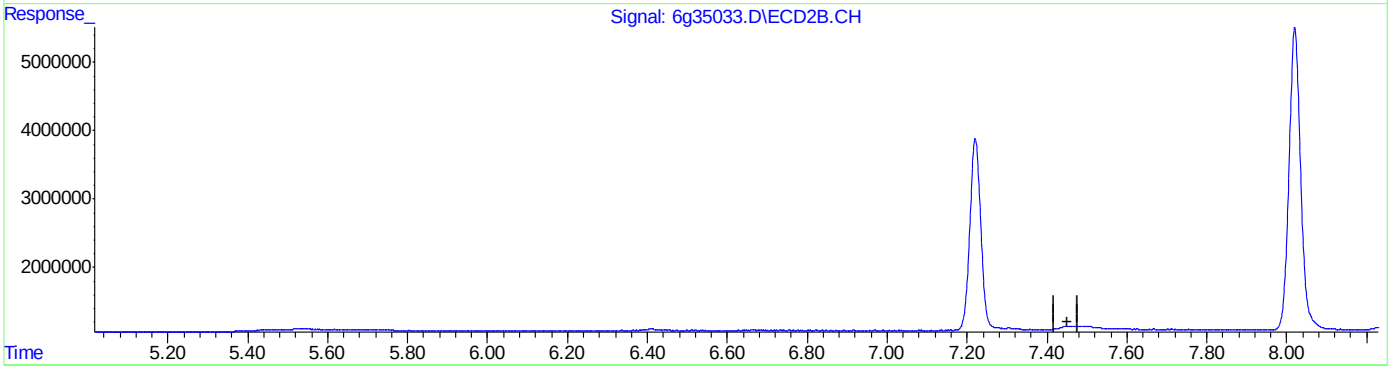
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1010\
Data File : 6g35033.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 May 2016 9:04 am
Operator : dharas
Sample : ddt
Misc : op93838,g6g1010,15.8,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 13 10:41:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Wed May 11 16:27:57 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





QEdit

(16) 4,4'-DDD (A)
0.000min 0.000PPB
response 0

(16) 4,4'-DDD #2 (A)
0.000min 0.000PPB
response 0

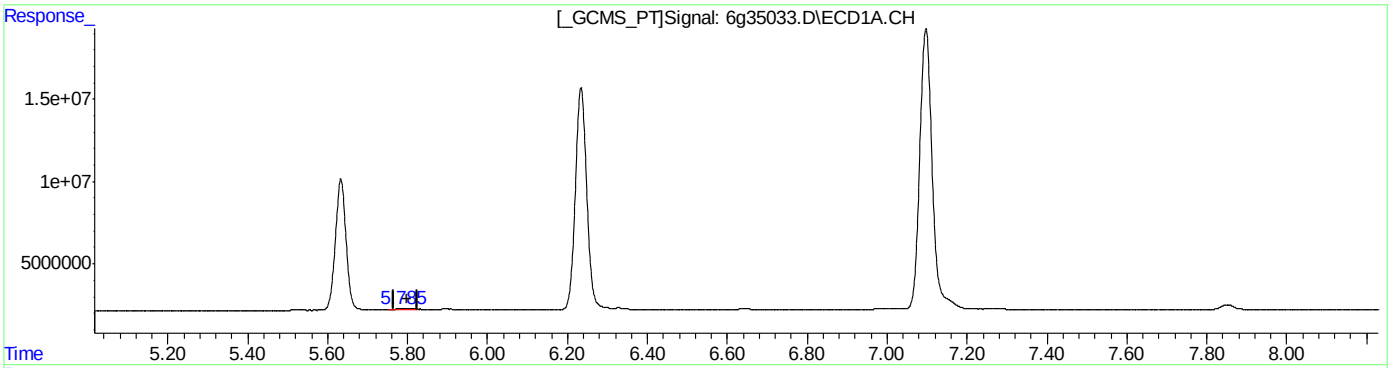
(+) = Expected Retention Time
6PST987.M Fri May 13 10:42:31 2016

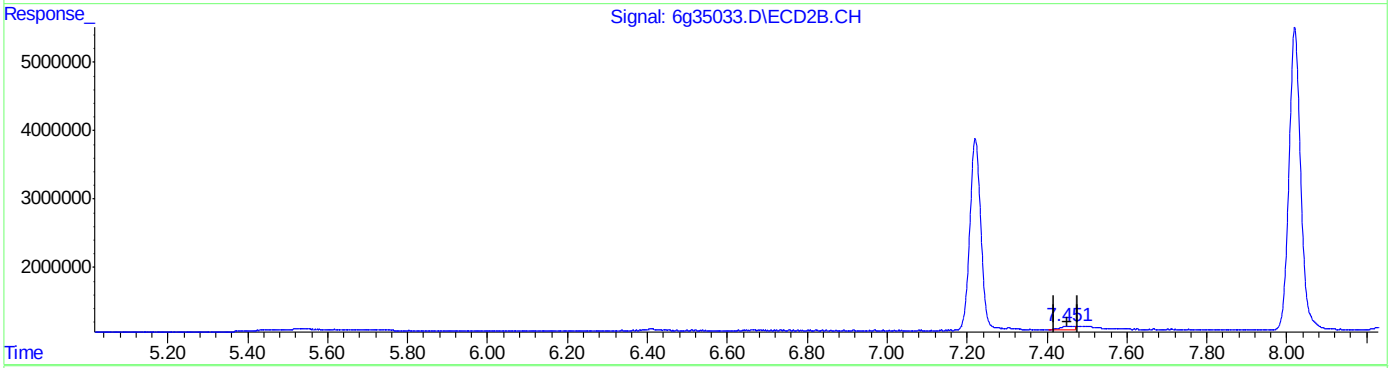
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1010\
Data File : 6g35033.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 May 2016 9:04 am
Operator : dharas
Sample : ddt
Misc : op93838,g6g1010,15.8,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 13 10:41:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Wed May 11 16:27:57 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





QEdit

(16) 4,4'-DDD (A)
5.785min 0.415PPB m
response 913107

(16) 4,4'-DDD #2 (A)
7.451min 1.303PPB m
response 1118577

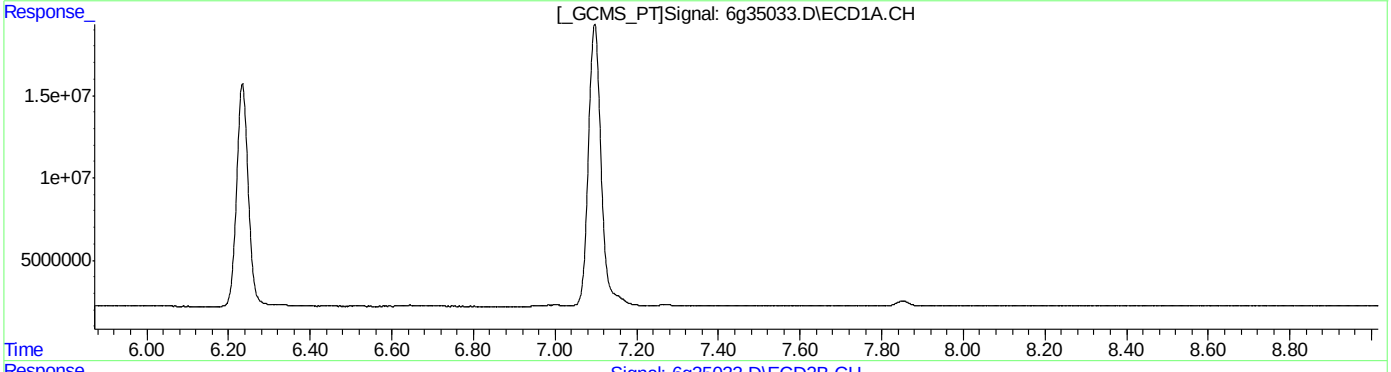
(+) = Expected Retention Time
6PST987.M Fri May 13 10:42:51 2016

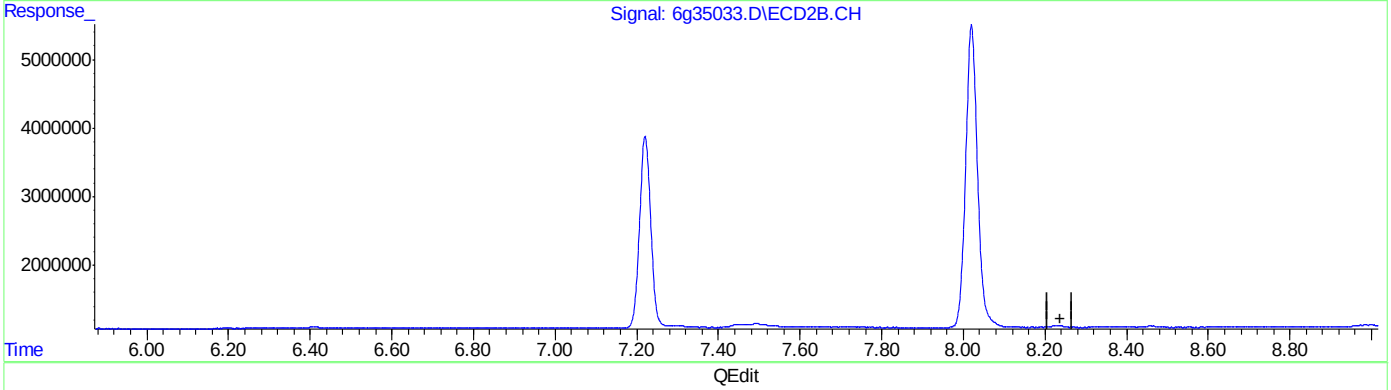
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1010\
Data File : 6g35033.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 May 2016 9:04 am
Operator : dharas
Sample : ddt
Misc : op93838,g6g1010,15.8,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 13 10:41:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Wed May 11 16:27:57 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





QEdit

(19) Endrin Aldehyde (B)
0.000min 0.000PPB
response 0

(19) Endrin Aldehyde #2 (B)
0.000min 0.000PPB
response 0

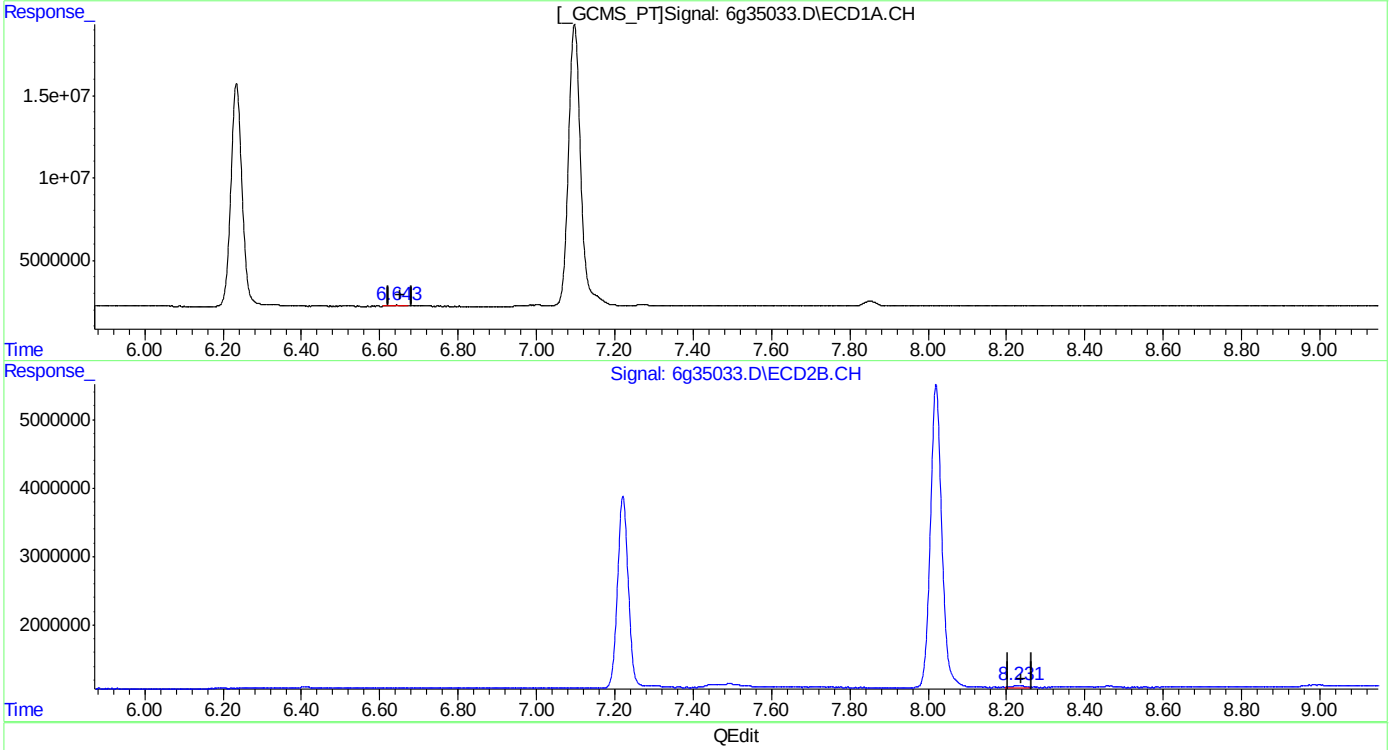
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1010\
Data File : 6g35033.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 May 2016 9:04 am
Operator : dharas
Sample : ddt
Misc : op93838,g6g1010,15.8,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 13 10:41:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Wed May 11 16:27:57 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um



QEdit

(19) Endrin Aldehyde (B)
6.643min 0.500PPB m
response 1118465

(19) Endrin Aldehyde #2 (B)
8.231min 0.625PPB m
response 515702

(+) = Expected Retention Time
6PST987.M Fri May 13 10:43:20 2016

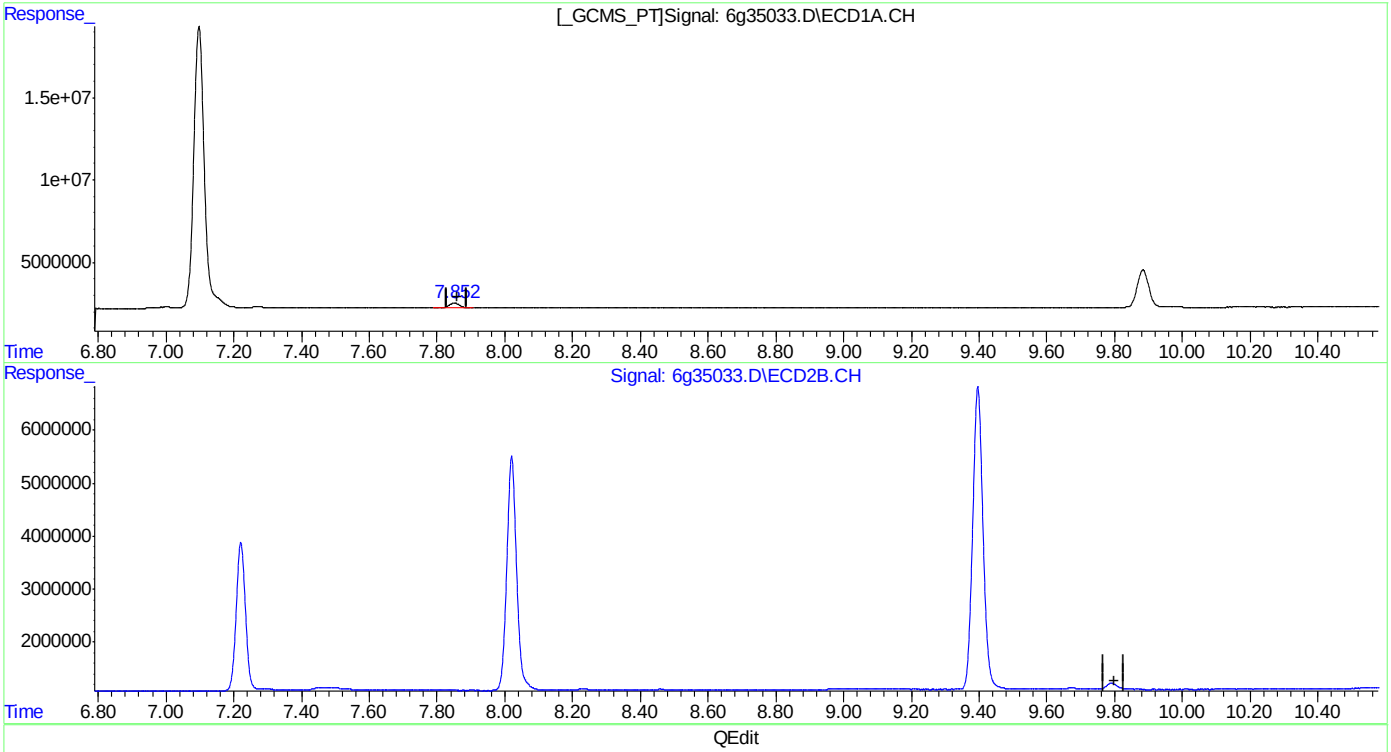
SGS ACCUTEST JC20098

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1010\
Data File : 6g35033.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 May 2016 9:04 am
Operator : dharas
Sample : ddt
Misc : op93838,g6g1010,15.8,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 13 10:41:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Wed May 11 16:27:57 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um



QEdit

(23) Endrin Ketone (B)
7.852min 2.096PPB
response 6002712

(23) Endrin Ketone #2 (B)
0.000min 0.000PPB
response 0

(+) = Expected Retention Time
6PST987.M Fri May 13 10:43:26 2016

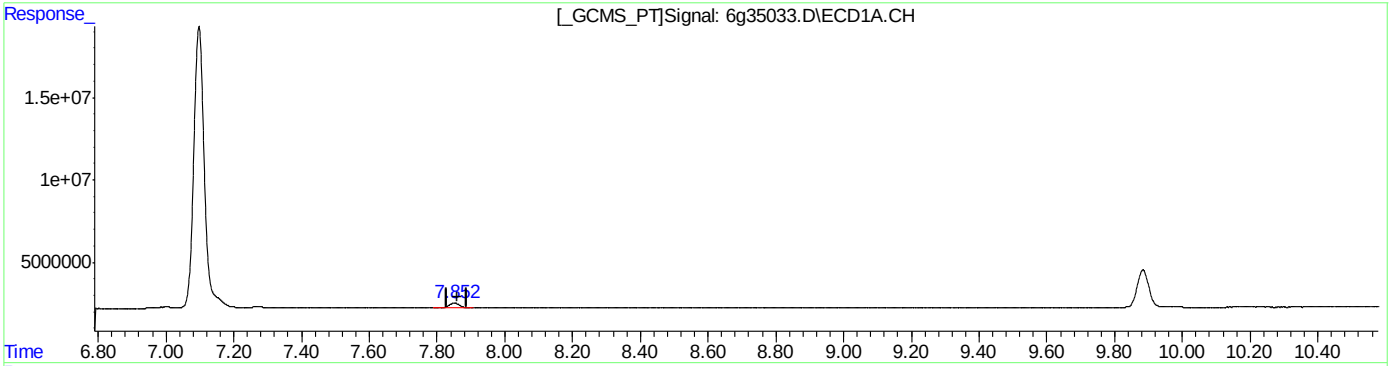
SGS ACCUTEST JC20098

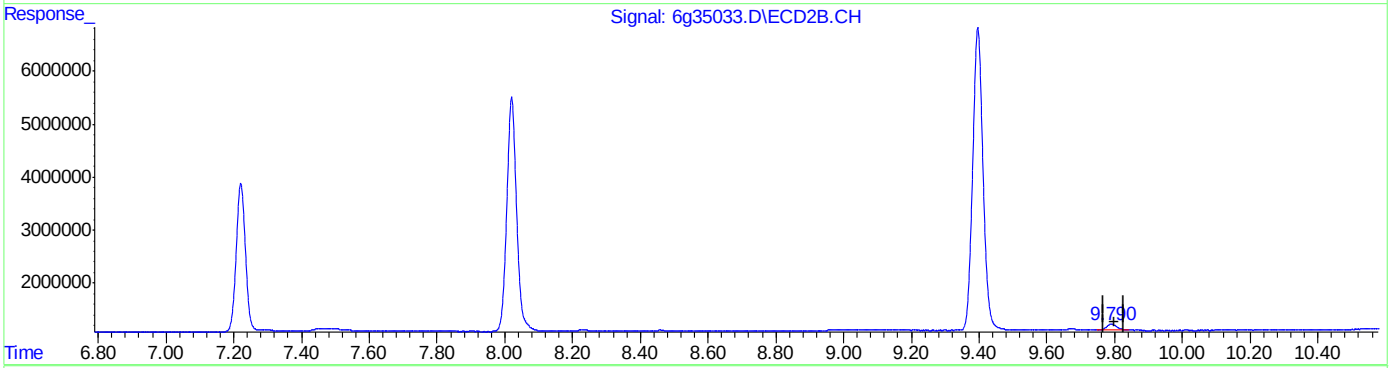
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1010\
Data File : 6g35033.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 May 2016 9:04 am
Operator : dharas
Sample : ddt
Misc : op93838,g6g1010,15.8,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 13 10:41:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Wed May 11 16:27:57 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





QEdit

(23) Endrin Ketone (B)
7.852min 2.096PPB
response 6002712

(23) Endrin Ketone #2 (B)
9.790min 2.352PPB m
response 2461035

(+) = Expected Retention Time
6PST987.M Fri May 13 10:43:35 2016

SGS ACCUTEST JC20098

Manual Integrations
APPROVED
(compounds with "m" flag)
Gwendolyn Burns
05/16/16 13:37

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1011\
Data File : 6g35086.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 May 2016 9:18 am
Operator : rebeccak
Sample : ddt
Misc : op93772,g6g1011,1000,,,5,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 16 11:36:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 16 10:05:37 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.298	1.568	116.3E6	50107111	50.000	50.000
25) I	1-bromo-2...	1.298	1.568	116.3E6	50107111	50.000	50.000
31) I	1-bromo-2...	1.298	1.568	116.3E6	50107111	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	1.970	2.458	43085338	18616739	20.218	20.565
Spiked Amount		40.000	Range	30 - 150	Recovery	= 50.54%	51.41%
24) SAB	Decachlor...	9.882	11.727	39182456	15960094	21.145	23.448
Spiked Amount		40.000			Recovery	= 52.86%	58.62%
	Target Compounds						
13) B	4,4'-DDE	4.898	6.404	1293188	393463	0.704m	0.486m#
15) MA	Endrin	5.633	7.219	102.0E6	41268096	51.969	48.724
16) A	4,4'-DDD	5.786	7.446	1582798	1095247	1.019m	1.567m#
18) MA	4,4'-DDT	6.233	8.018	187.9E6	69466544	111.186	109.478
19) B	Endrin Al...	6.644	8.228	1074730	482008	0.681m	0.718m
21) A	Methoxychlor	7.097	9.394	268.3E6	92478638	264.985	264.508
23) B	Endrin Ke...	7.851	9.789	4573451	2078662	2.261	2.440m

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

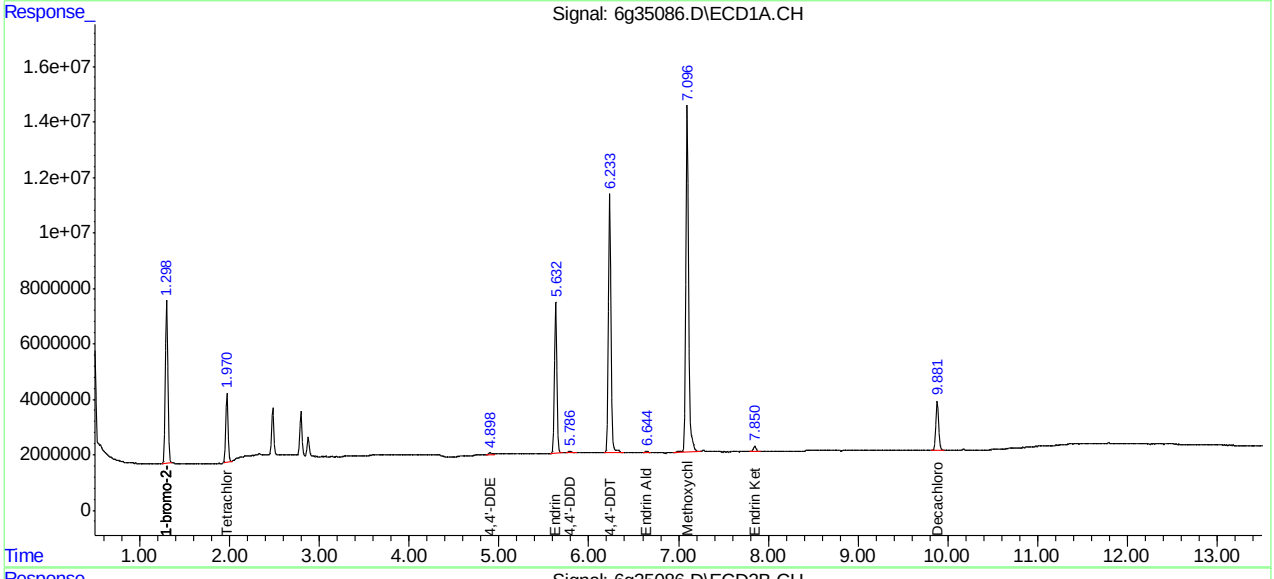
11.5.5 11

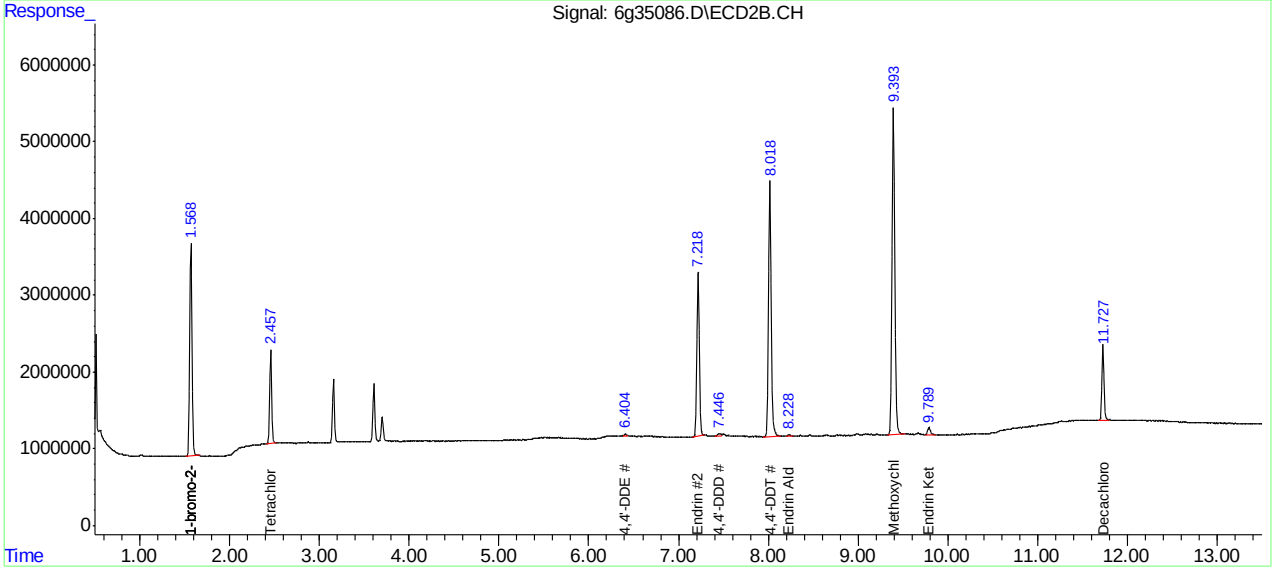
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1011\
Data File : 6g35086.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 May 2016 9:18 am
Operator : rebeccak
Sample : ddt
Misc : op93772,g6g1011,1000,,,5,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 16 11:36:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 16 10:05:37 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





SGS ACCUTEST JC20098

Manual Integration Approval Summary

Sample Number:	G6G1011-DDT	**Method:**	EPA 608
Lab FileID:	6G35086.D	**Analyst approved:**	05/16/16 11:38 Dhara Saparia
Injection Time:	05/16/16 09:18	**Supervisor approved:**	05/16/16 13:37 Gwendolyn Burns

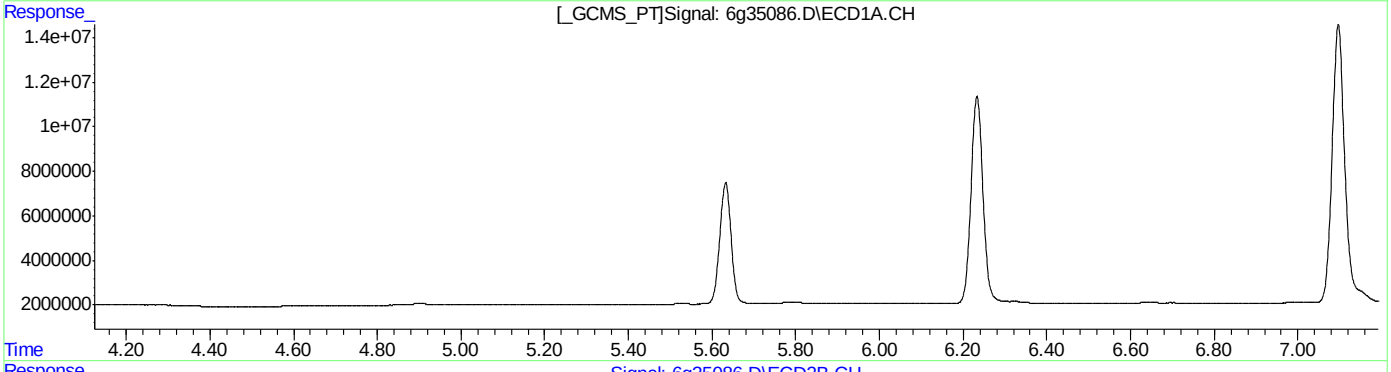
Parameter	CAS	Sig#	R.T. (min.)	Reason
4,4'-DDE	72-55-9	1	4.90	Poor instrument integration
4,4'-DDD	72-54-8	1	5.79	Poor instrument integration
4,4'-DDE	72-55-9	2	6.40	Poor instrument integration
Endrin aldehyde	7421-93-4	1	6.64	Poor instrument integration
4,4'-DDD	72-54-8	2	7.45	Poor instrument integration
Endrin aldehyde	7421-93-4	2	8.23	Poor instrument integration
Endrin ketone	53494-70-5	2	9.79	Poor instrument integration

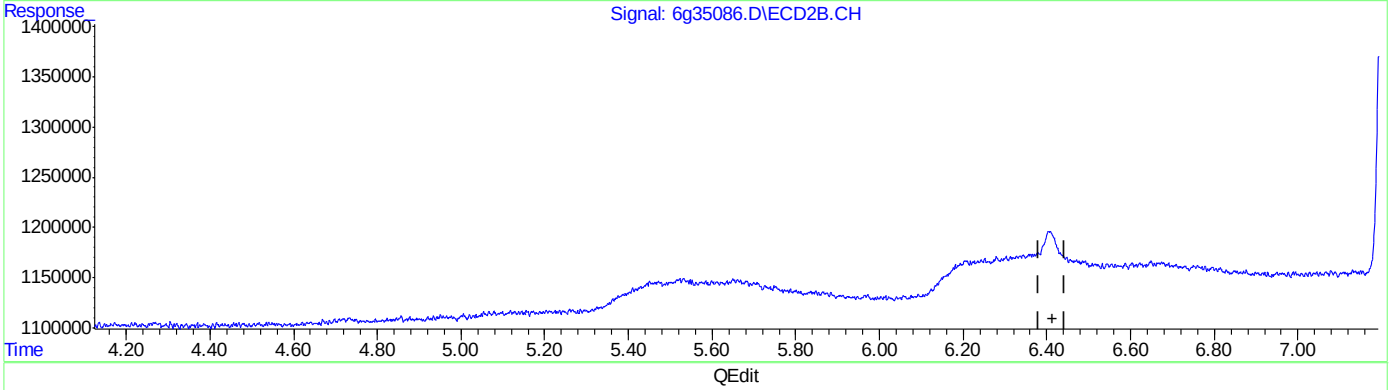
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1011\
Data File : 6g35086.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 May 2016 9:18 am
Operator : rebeccak
Sample : ddt
Misc : op93772,g6g1011,1000,,,5,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 16 11:30:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 16 10:05:37 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





QEdit

(13) 4,4'-DDE (B)
0.000min 0.000PPB
response 0

(13) 4,4'-DDE #2 (B)
0.000min 0.000PPB
response 0

(+) = Expected Retention Time
6PST987.M Mon May 16 11:31:13 2016

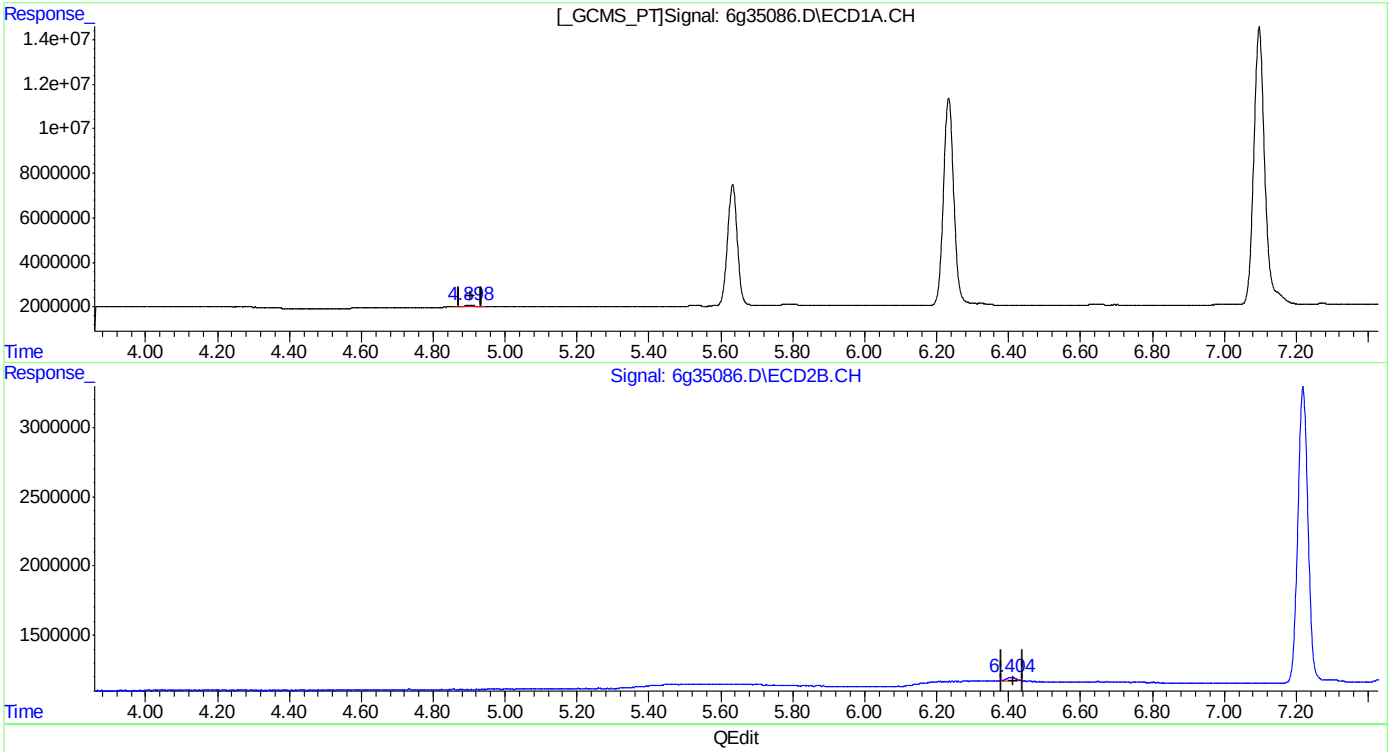
SGS ACCUTEST JC20098

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1011\
Data File : 6g35086.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 May 2016 9:18 am
Operator : rebeccak
Sample : ddt
Misc : op93772,g6g1011,1000,,,5,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 16 11:30:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 16 10:05:37 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um



(13) 4,4'-DDE (B)
4.898min 0.704PPB m
response 1293188

(13) 4,4'-DDE #2 (B)
6.404min 0.486PPB m
response 393463

(+) = Expected Retention Time
6PST987.M Mon May 16 11:31:51 2016

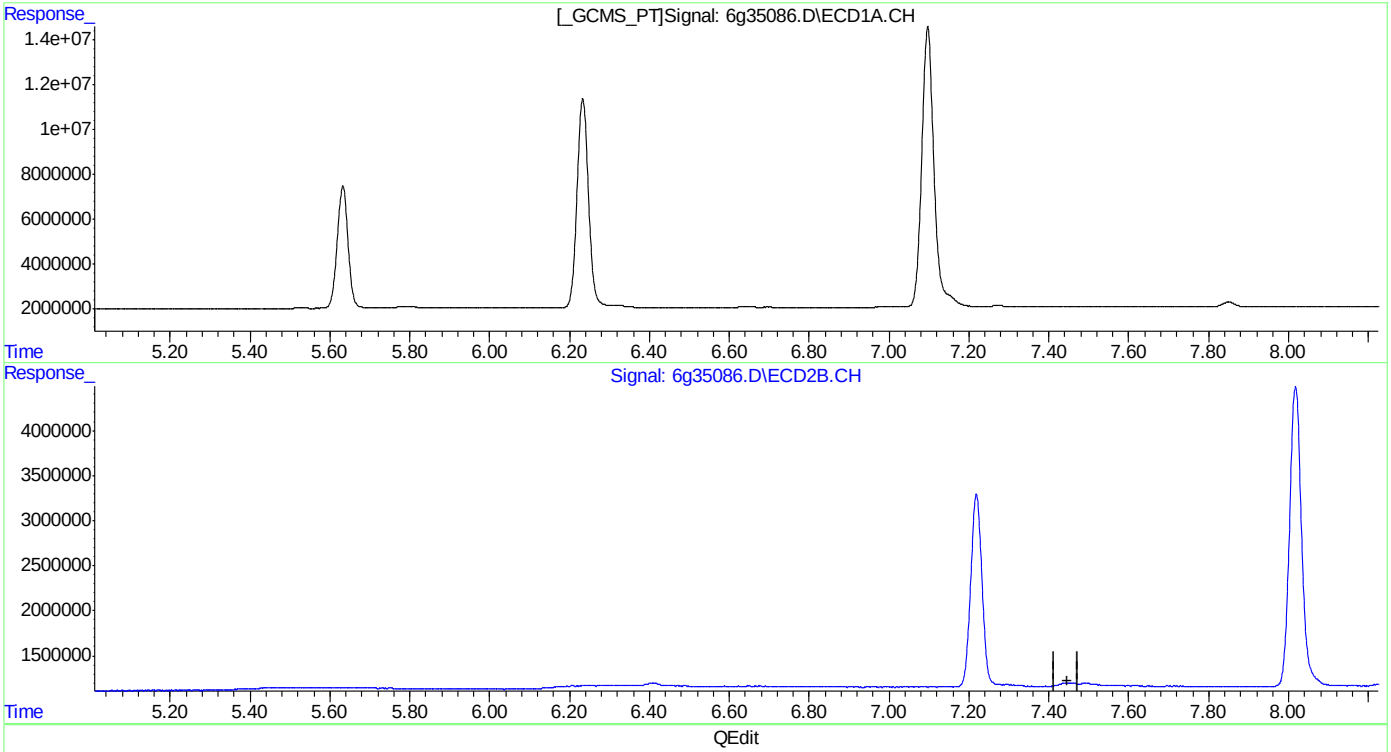
SGS ACCUTEST JC20098

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1011\
Data File : 6g35086.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 May 2016 9:18 am
Operator : rebeccak
Sample : ddt
Misc : op93772,g6g1011,1000,,,5,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 16 11:30:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 16 10:05:37 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um



QEdit

(16) 4,4'-DDD (A)
0.000min 0.000PPB
response 0

(16) 4,4'-DDD #2 (A)
0.000min 0.000PPB
response 0

(+) = Expected Retention Time
6PST987.M Mon May 16 11:32:04 2016

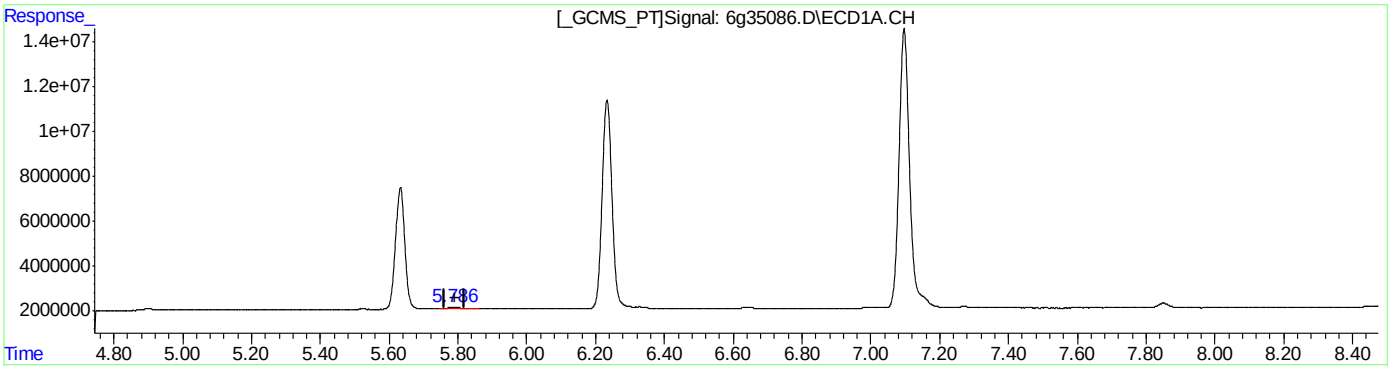
SGS ACCUTEST JC20098

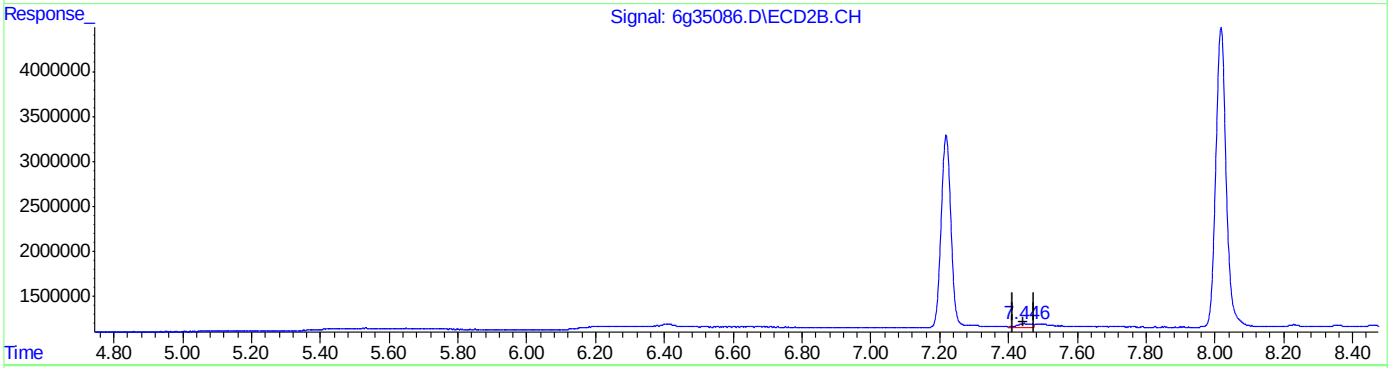
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1011\
Data File : 6g35086.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 May 2016 9:18 am
Operator : rebeccak
Sample : ddt
Misc : op93772,g6g1011,1000,,,5,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 16 11:30:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 16 10:05:37 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





QEdit

(16) 4,4'-DDD (A)
5.786min 1.019PPB m
response 1582798

(16) 4,4'-DDD #2 (A)
7.446min 1.567PPB m
response 1095247

(+) = Expected Retention Time
6PST987.M Mon May 16 11:33:14 2016

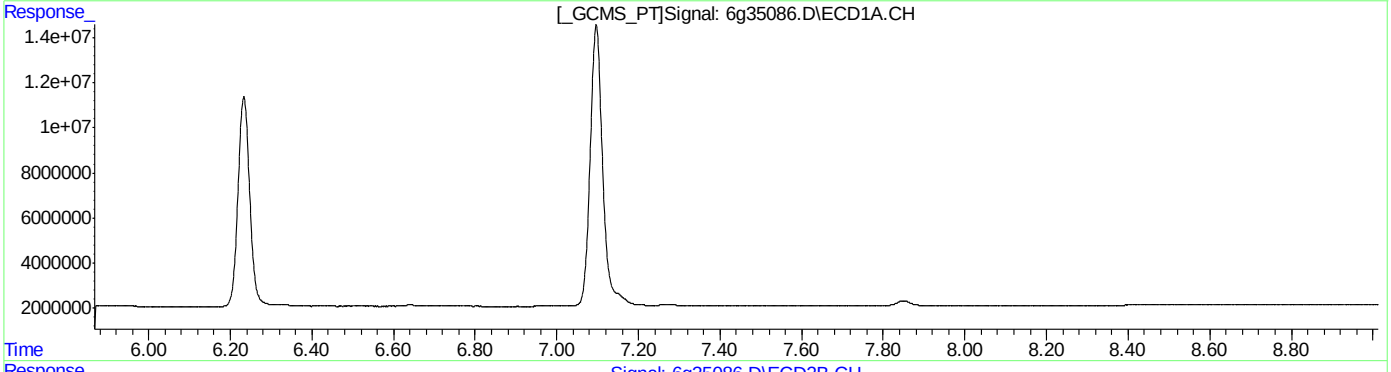
SGS ACCUTEST JC20098

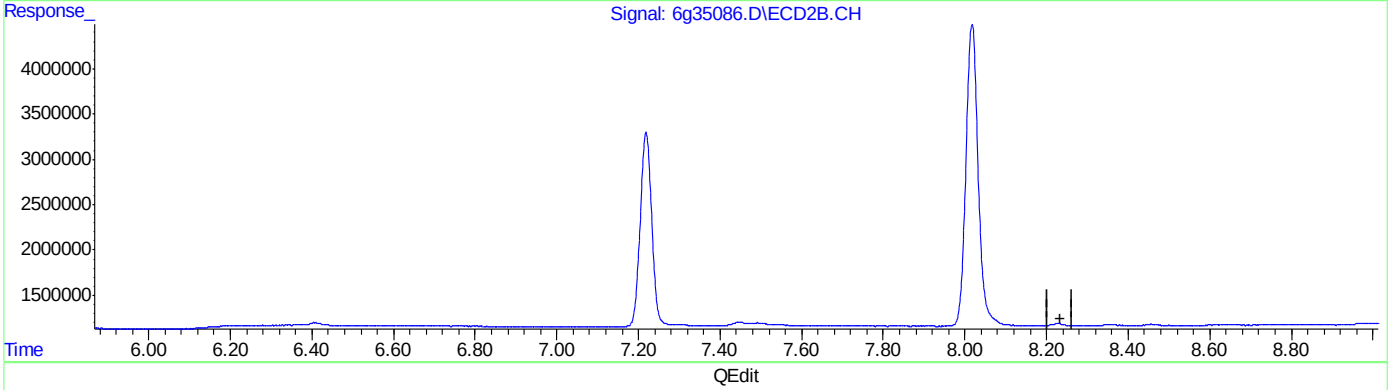
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1011\
Data File : 6g35086.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 May 2016 9:18 am
Operator : rebeccak
Sample : ddt
Misc : op93772,g6g1011,1000,,,5,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 16 11:30:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 16 10:05:37 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





QEdit

(19) Endrin Aldehyde (B)
0.000min 0.000PPB
response 0

(19) Endrin Aldehyde #2 (B)
0.000min 0.000PPB
response 0

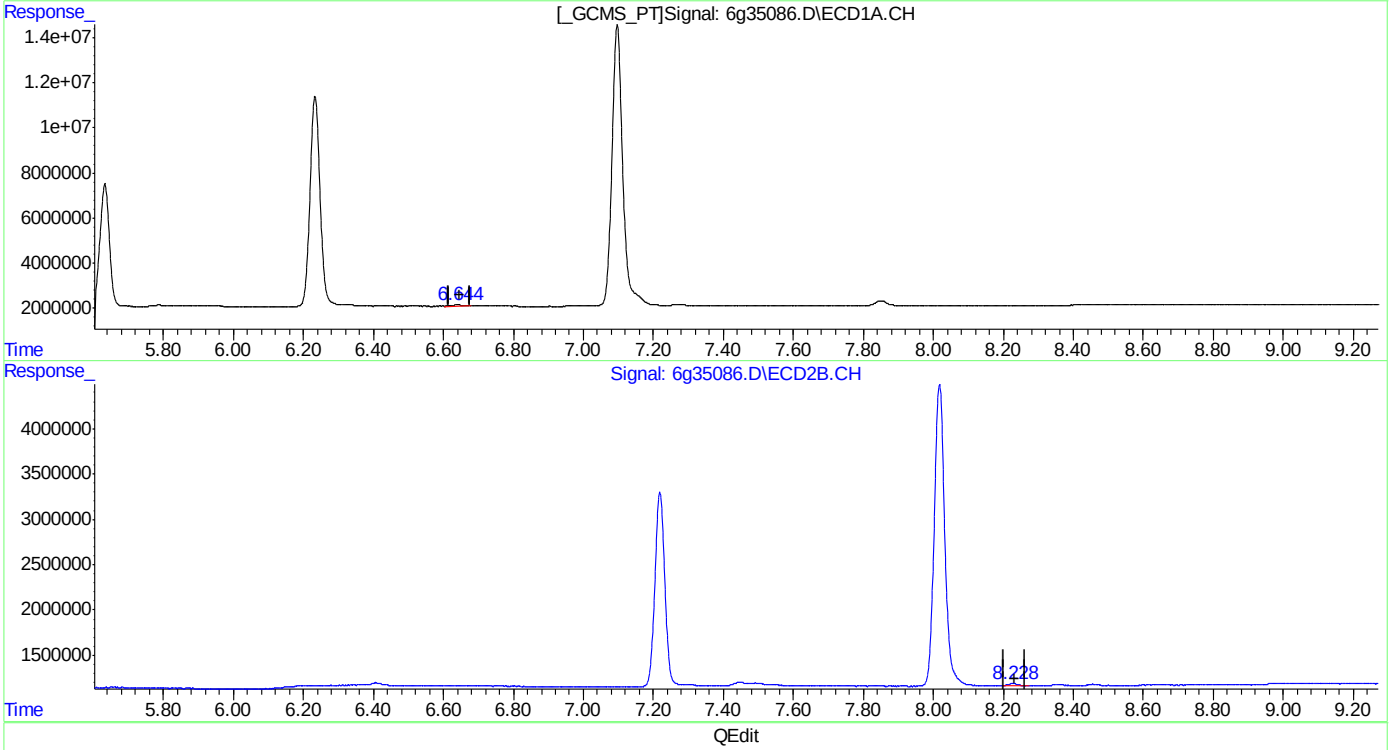
(+) = Expected Retention Time
6PST987.M Mon May 16 11:33:37 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1011\
Data File : 6g35086.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 May 2016 9:18 am
Operator : rebeccak
Sample : ddt
Misc : op93772,g6g1011,1000,,,5,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 16 11:30:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 16 10:05:37 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um



QEdit

(19) Endrin Aldehyde (B)
6.644min 0.681PPB m
response 1074730

(19) Endrin Aldehyde #2 (B)
8.228min 0.718PPB m
response 482008

(+) = Expected Retention Time
6PST987.M Mon May 16 11:34:34 2016

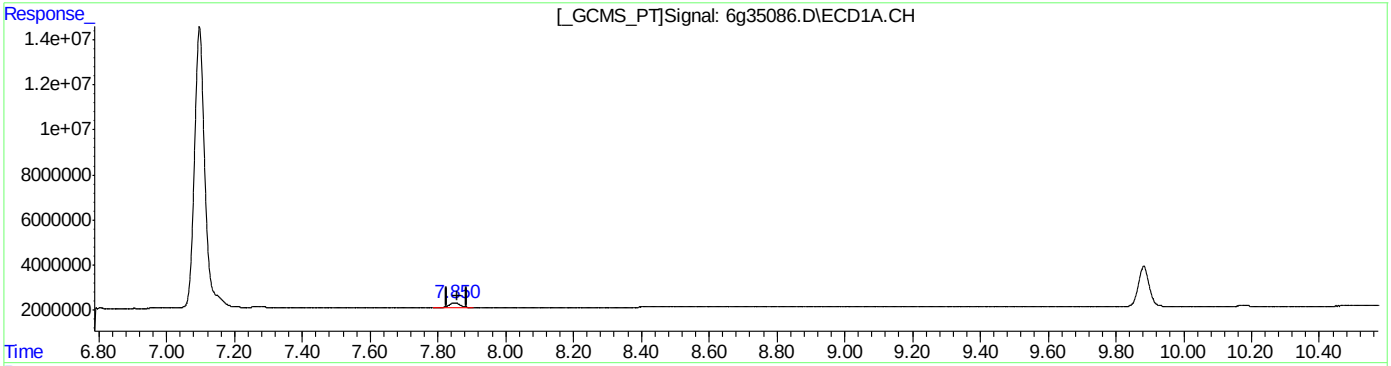
SGS ACCUTEST JC20098

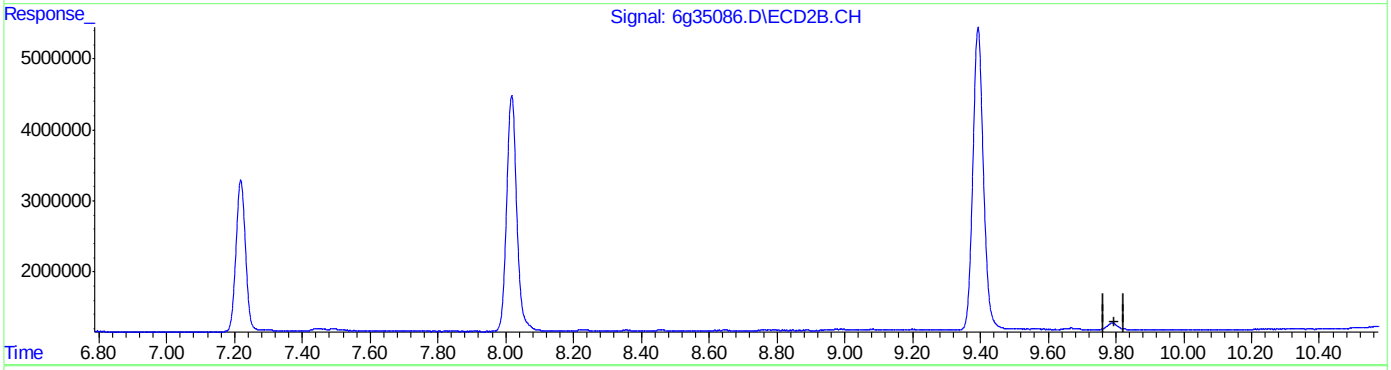
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1011\
Data File : 6g35086.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 May 2016 9:18 am
Operator : rebeccak
Sample : ddt
Misc : op93772,g6g1011,1000,,,5,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 16 11:30:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 16 10:05:37 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





QEdit

(23) Endrin Ketone (B)
7.851min 2.261PPB
response 4573451

(23) Endrin Ketone #2 (B)
0.000min 0.000PPB
response 0

(+) = Expected Retention Time
6PST987.M Mon May 16 11:34:53 2016

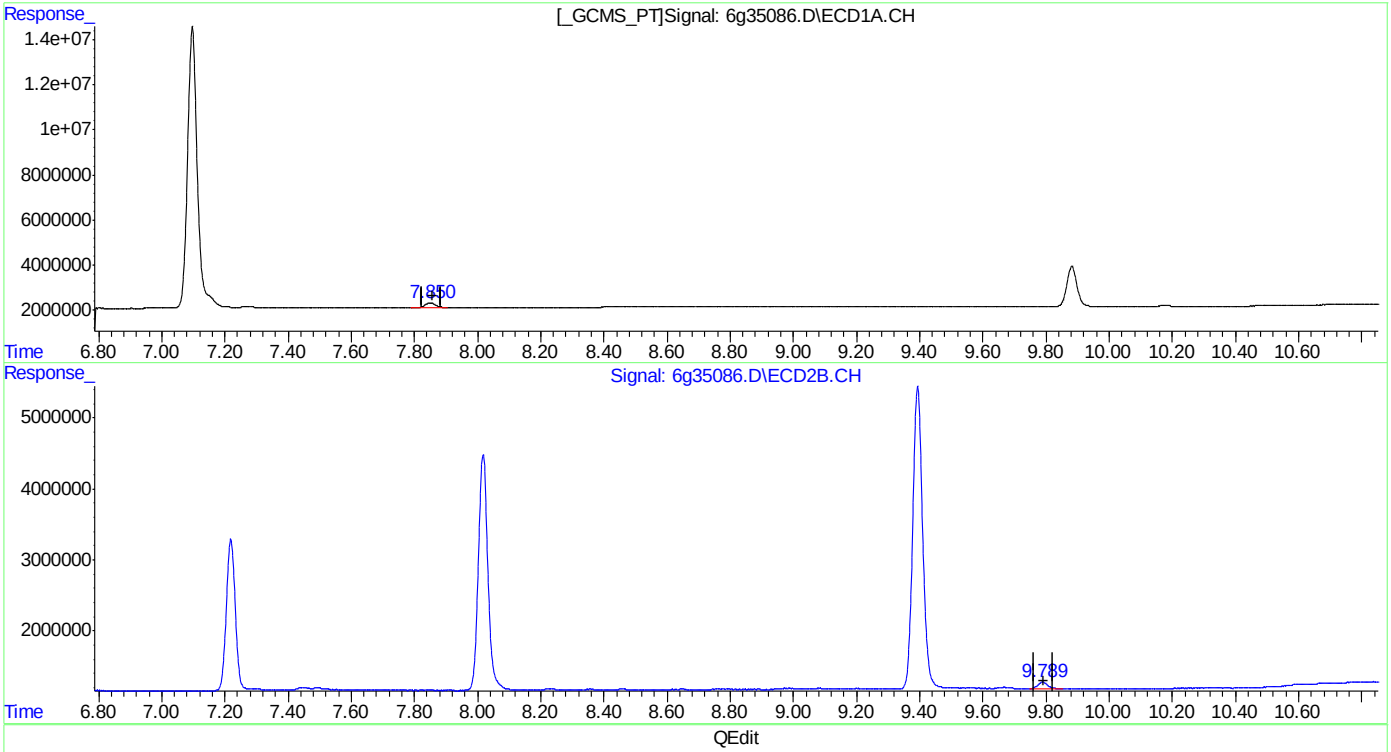
SGS ACCUTEST JC20098

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1011\
Data File : 6g35086.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 May 2016 9:18 am
Operator : rebeccak
Sample : ddt
Misc : op93772,g6g1011,1000,,,5,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 16 11:30:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 16 10:05:37 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um



(23) Endrin Ketone (B)
7.851min 2.261PPB
response 4573451

(23) Endrin Ketone #2 (B)
9.789min 2.440PPB m
response 2078662

(+) = Expected Retention Time
6PST987.M Mon May 16 11:35:23 2016

SGS ACCUTEST JC20098

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
05/17/16 12:09

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1012\
Data File : 6g35138.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 May 2016 8:25 am
Operator : rebeccak
Sample : ddt
Misc : op93898,g6g1012,495,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 17 11:13:31 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 16 10:05:37 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.294	1.566	123.2E6	51037130	50.000	50.000
25) I	1-bromo-2...	1.294	1.566	123.2E6	51037130	50.000	50.000
31) I	1-bromo-2...	1.294	1.566	123.2E6	51037130	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	1.967	2.456	45092997	18717904	19.972	20.299
Spiked Amount		40.000	Range	30 - 150	Recovery	= 49.93%	50.75%
24) SAB	Decachlor...	9.879	11.729	40554124	16175043	20.656	23.331
Spiked Amount		40.000			Recovery	= 51.64%	58.33%
	Target Compounds						
13) B	4,4'-DDE	4.898	6.409	595628	301434	0.306m	0.365m
15) MA	Endrin	5.630	7.219	107.7E6	42174233	51.750	48.887
16) A	4,4'-DDD	5.789	7.448	699190	694169	0.425m	0.975m#
18) MA	4,4'-DDT	6.233	8.017	190.8E6	71454990	106.565	110.559
19) B	Endrin Al...	6.640	8.230	841520	373436	0.503m	0.546m
23) B	Endrin Ke...	7.849	9.789	4471118	2370650	2.086	2.732 #

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

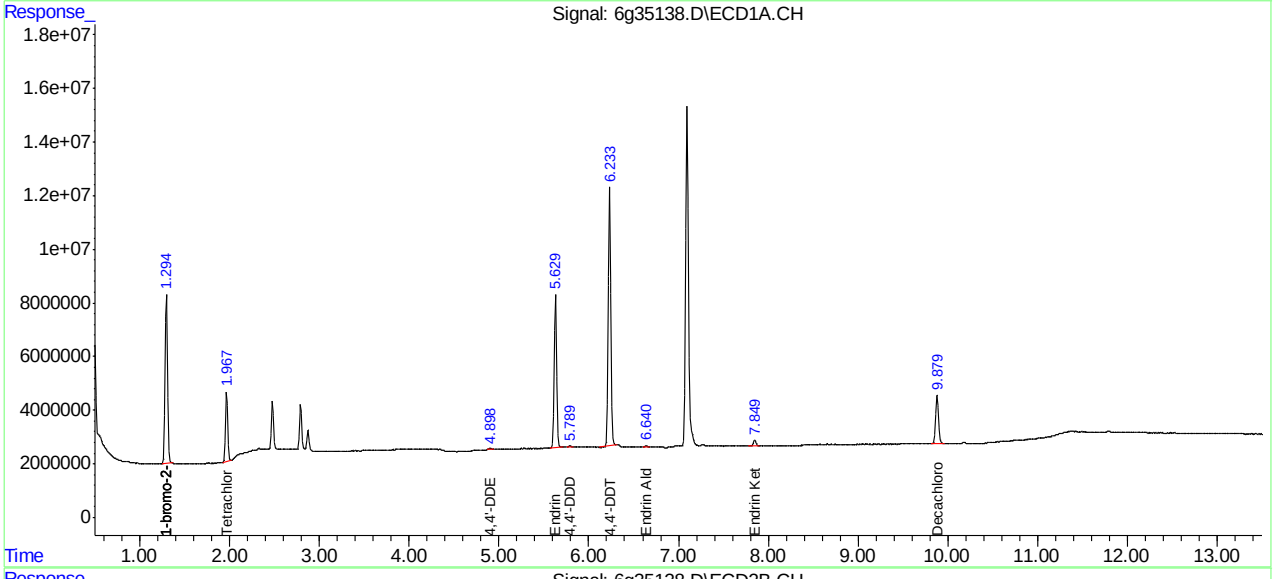
11.5.6 11

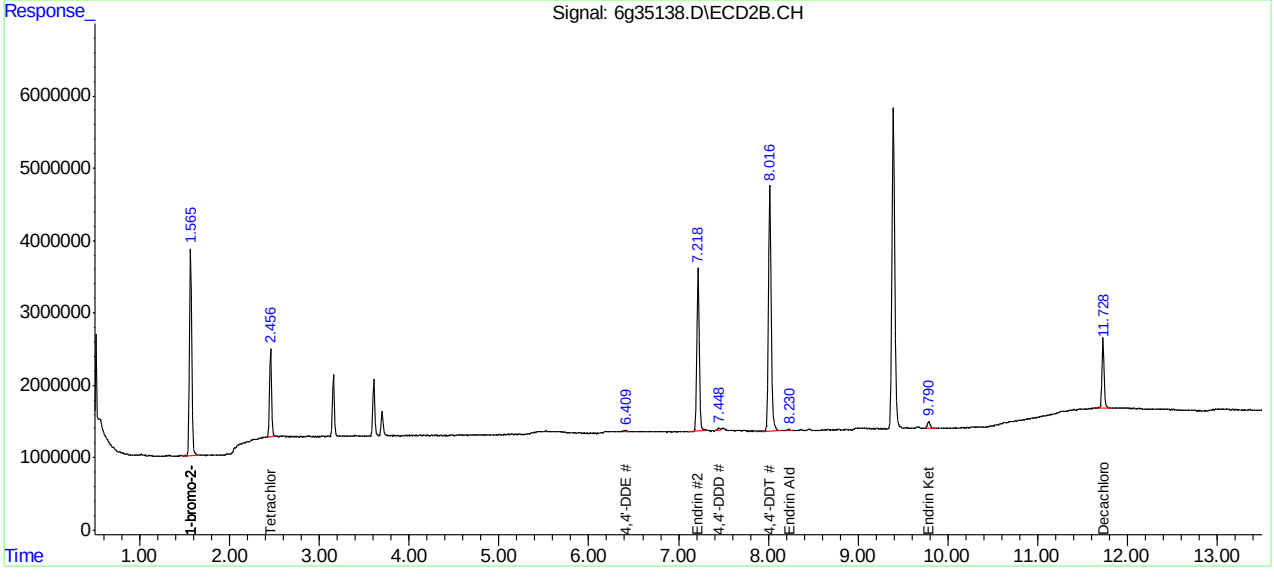
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1012\
Data File : 6g35138.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 May 2016 8:25 am
Operator : rebeccak
Sample : ddt
Misc : op93898,g6g1012,495,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 17 11:13:31 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 16 10:05:37 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





SGS ACCUTEST JC20098

Manual Integration Approval Summary

Sample Number:	G6G1012-DDT	**Method:**	SW846 8081B
Lab FileID:	6G35138.D	**Analyst approved:**	05/17/16 11:27 Dhara Saparia
Injection Time:	05/17/16 08:25	**Supervisor approved:**	05/17/16 12:09 Gwendolyn Burns

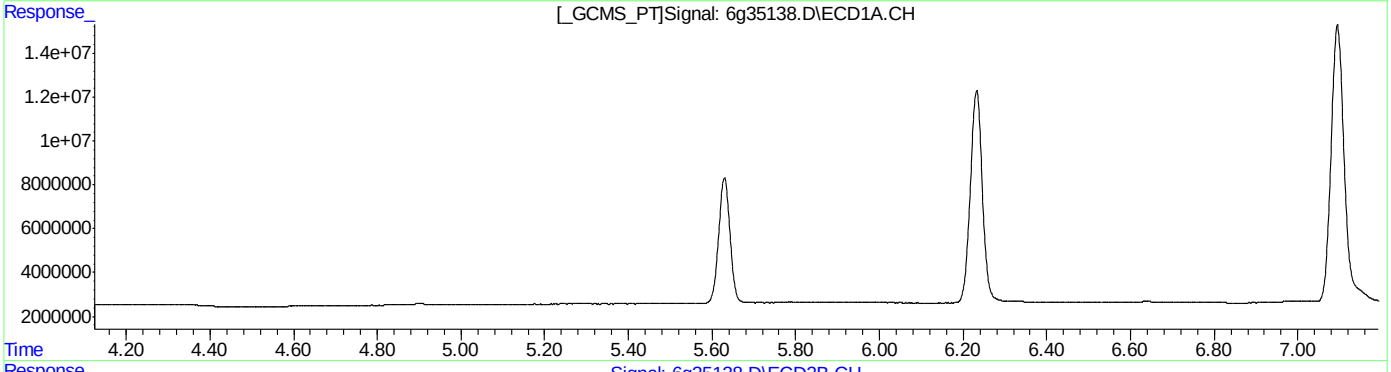
Parameter	CAS	Sig#	R.T. (min.)	Reason
4,4'-DDE	72-55-9	1	4.90	Poor instrument integration
4,4'-DDD	72-54-8	1	5.79	Poor instrument integration
4,4'-DDE	72-55-9	2	6.41	Poor instrument integration
Endrin aldehyde	7421-93-4	1	6.64	Poor instrument integration
4,4'-DDD	72-54-8	2	7.45	Poor instrument integration
Endrin aldehyde	7421-93-4	2	8.23	Poor instrument integration

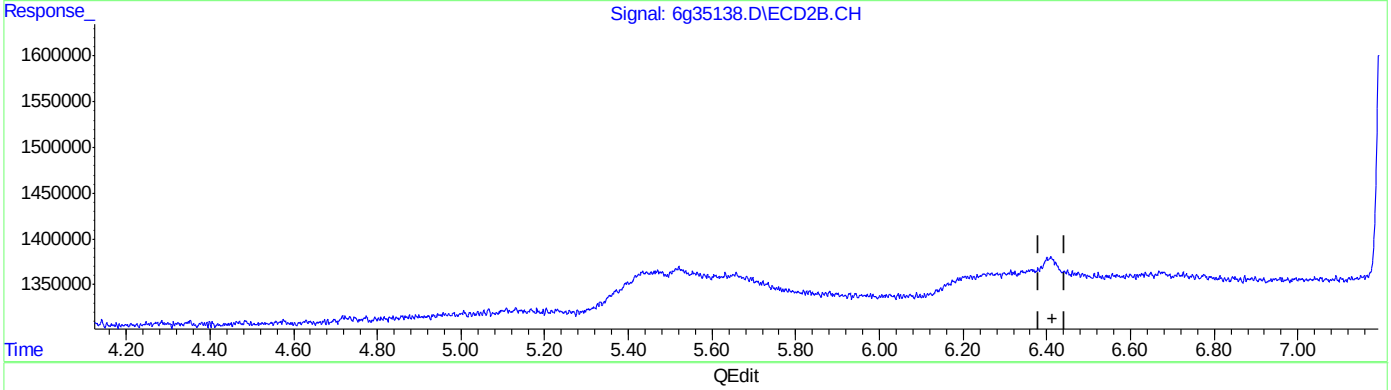
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1012\
Data File : 6g35138.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 May 2016 8:25 am
Operator : rebeccak
Sample : ddt
Misc : op93898,g6g1012,495,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 17 11:11:39 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 16 10:05:37 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





QEdit

(13) 4,4'-DDE (B)
0.000min 0.000PPB
response 0

(13) 4,4'-DDE #2 (B)
0.000min 0.000PPB
response 0

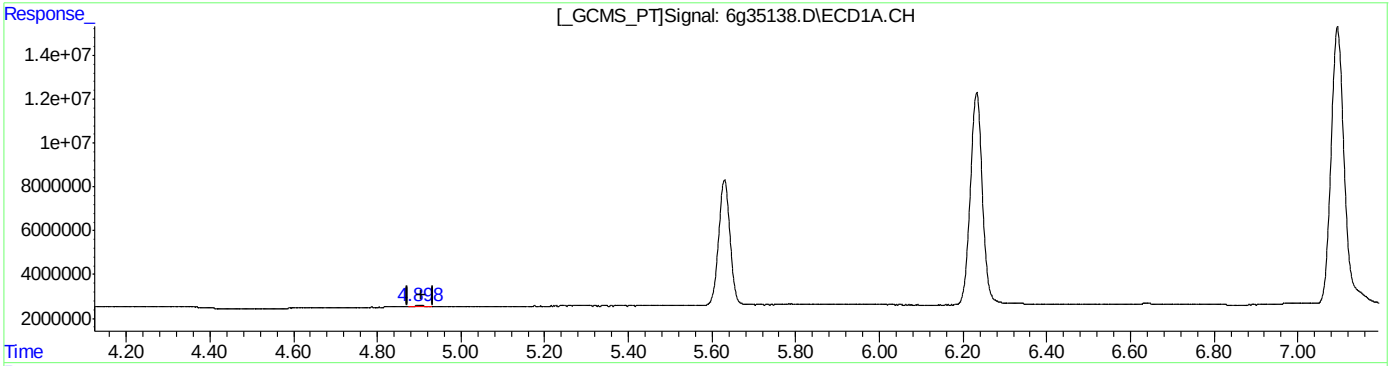
(+) = Expected Retention Time

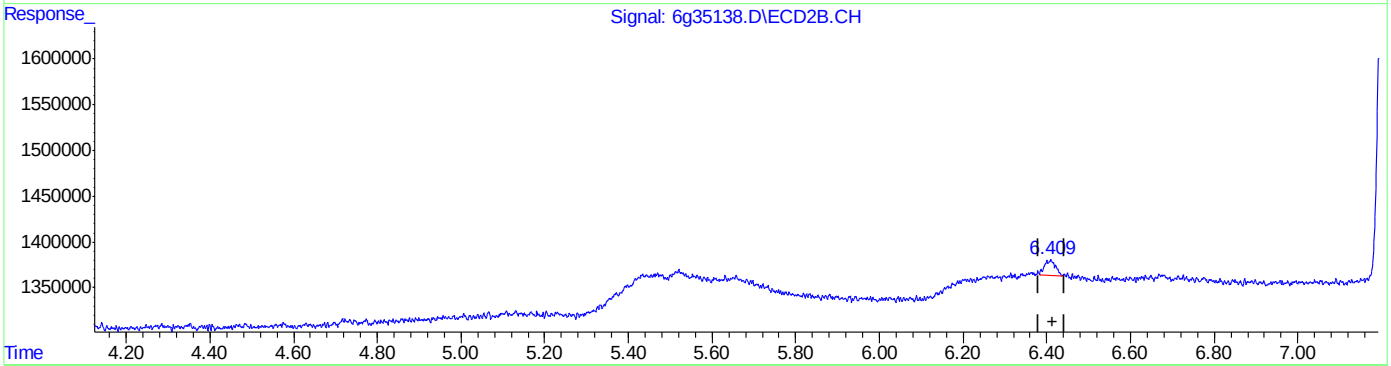
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1012\
Data File : 6g35138.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 May 2016 8:25 am
Operator : rebeccak
Sample : ddt
Misc : op93898,g6g1012,495,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 17 11:11:39 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 16 10:05:37 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





QEdit

(13) 4,4'-DDE (B)
4.898min 0.306PPB m
response 595628

(13) 4,4'-DDE #2 (B)
6.409min 0.365PPB m
response 301434

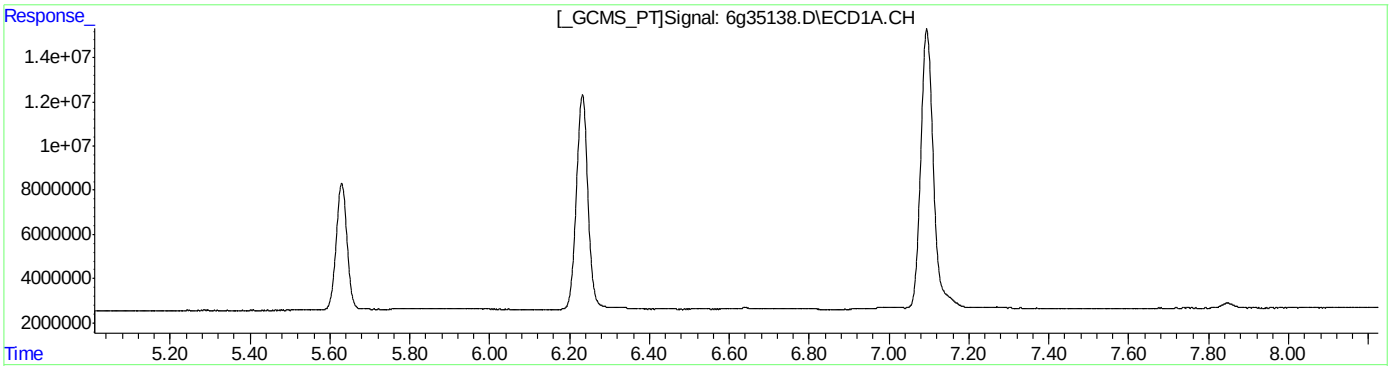
(+) = Expected Retention Time
6PST987.M Tue May 17 11:12:36 2016

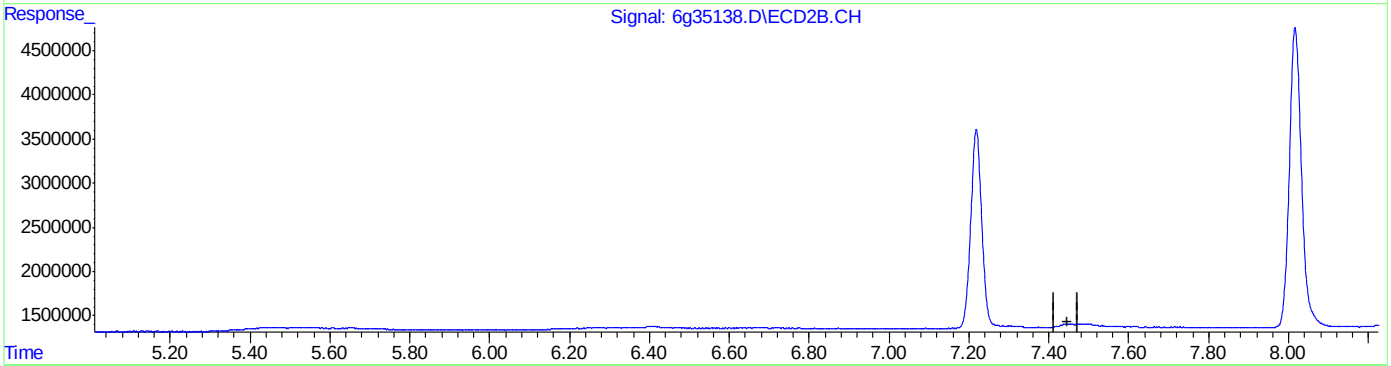
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1012\
Data File : 6g35138.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 May 2016 8:25 am
Operator : rebeccak
Sample : ddt
Misc : op93898,g6g1012,495,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 17 11:11:39 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 16 10:05:37 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





QEdit

(16) 4,4'-DDD (A)
0.000min 0.000PPB
response 0

(16) 4,4'-DDD #2 (A)
0.000min 0.000PPB
response 0

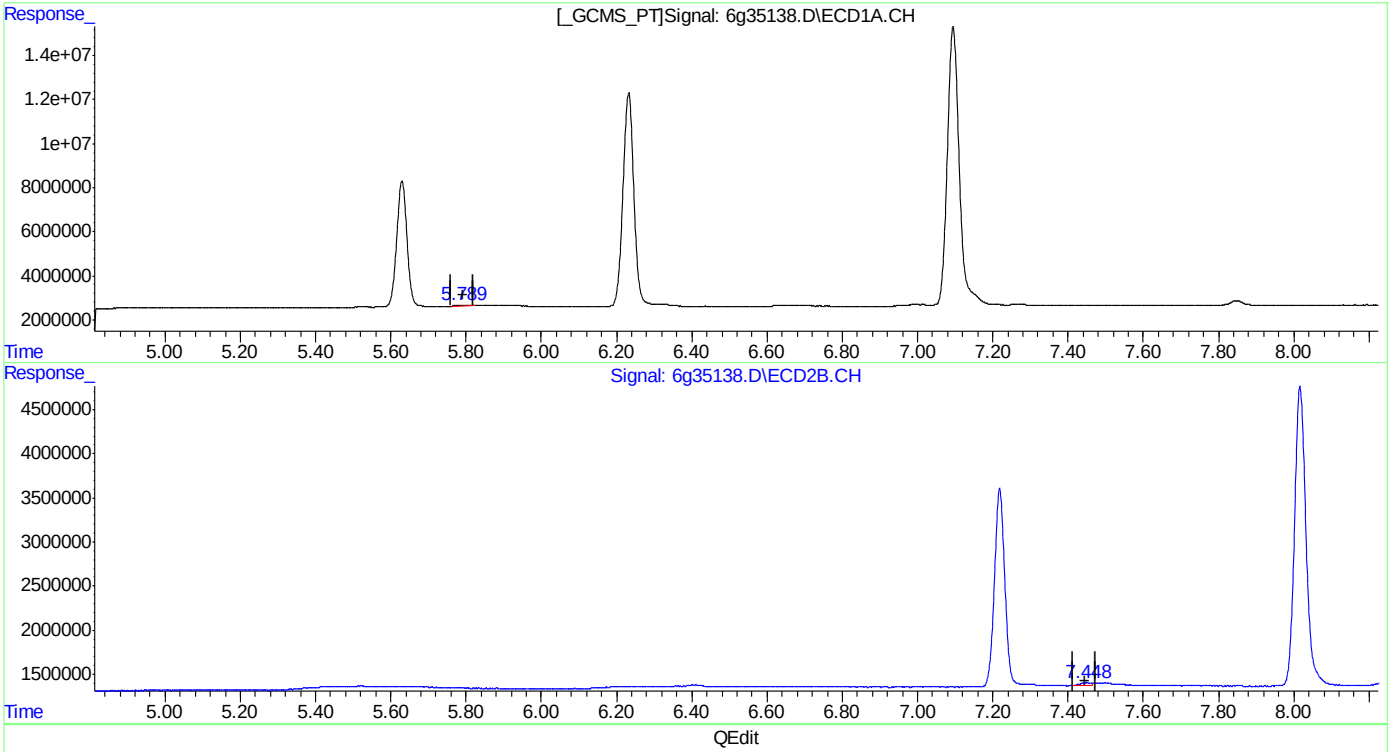
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1012\
Data File : 6g35138.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 May 2016 8:25 am
Operator : rebeccak
Sample : ddt
Misc : op93898,g6g1012,495,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 17 11:11:39 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 16 10:05:37 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um



QEdit

(16) 4,4'-DDD (A)
5.789min 0.425PPB m
response 699190

(16) 4,4'-DDD #2 (A)
7.448min 0.975PPB m
response 694169

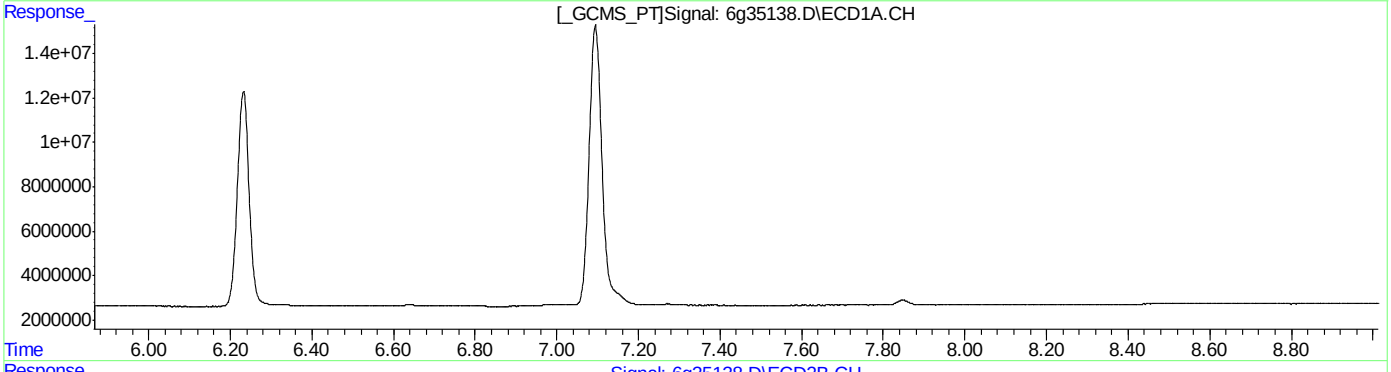
(+) = Expected Retention Time

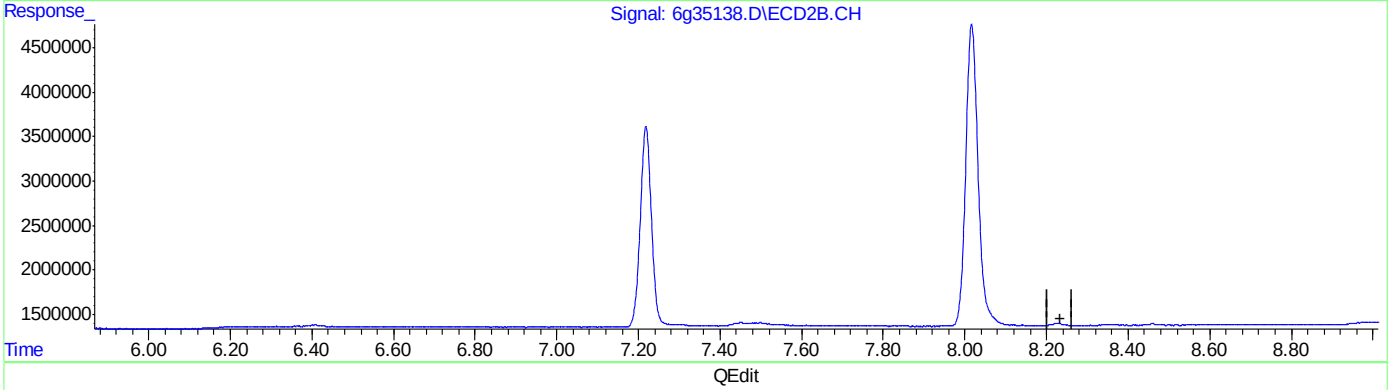
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1012\
Data File : 6g35138.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 May 2016 8:25 am
Operator : rebeccak
Sample : ddt
Misc : op93898,g6g1012,495,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 17 11:11:39 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 16 10:05:37 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





QEdit

(19) Endrin Aldehyde (B)
0.000min 0.000PPB
response 0

(19) Endrin Aldehyde #2 (B)
0.000min 0.000PPB
response 0

(+) = Expected Retention Time
6PST987.M Tue May 17 11:13:14 2016

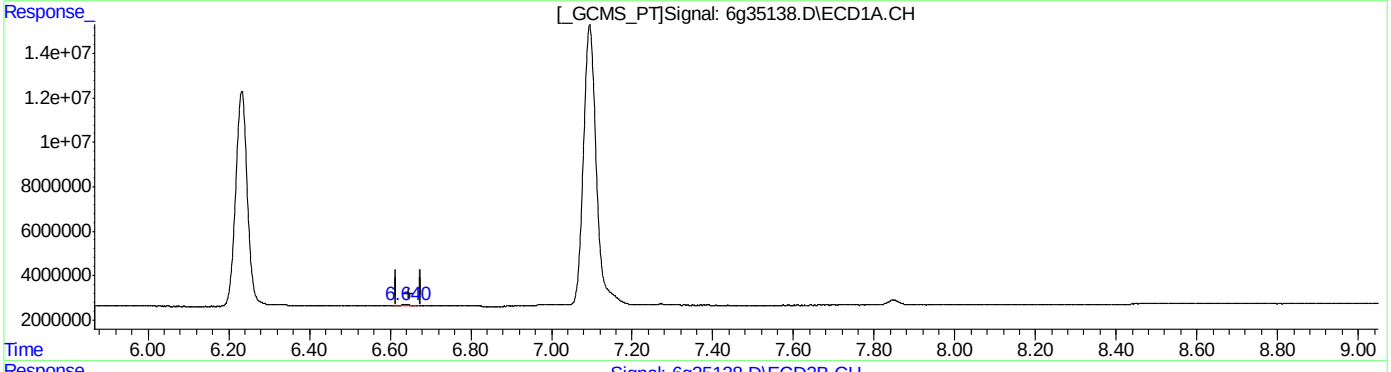
SGS ACCUTEST JC20098

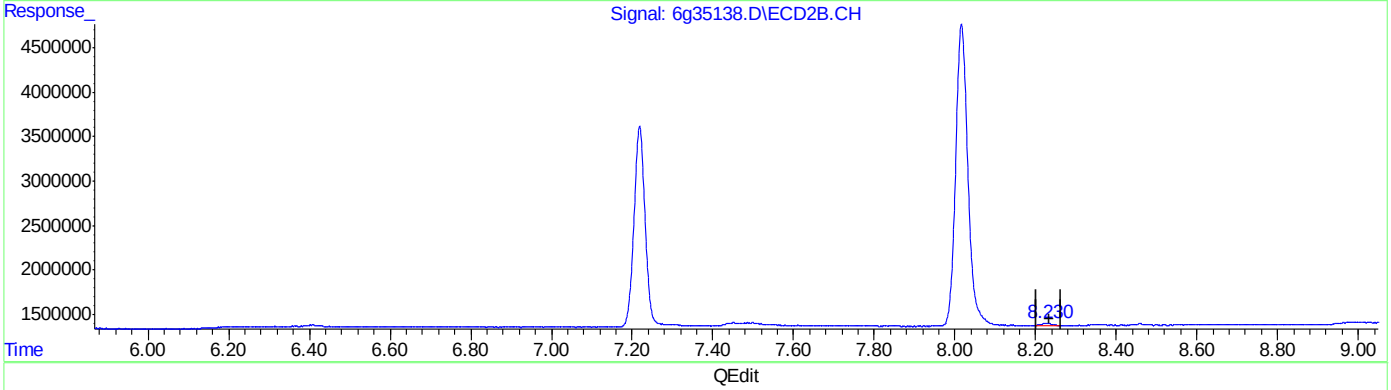
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1012\
Data File : 6g35138.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 May 2016 8:25 am
Operator : rebeccak
Sample : ddt
Misc : op93898,g6g1012,495,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 17 11:11:39 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 16 10:05:37 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





QEdit

(19) Endrin Aldehyde (B)
6.640min 0.503PPB m
response 841520

(19) Endrin Aldehyde #2 (B)
8.230min 0.546PPB m
response 373436

(+) = Expected Retention Time
6PST987.M Tue May 17 11:13:34 2016

SGS ACCUTEST JC20098

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
05/04/16 11:11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67832.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 2:26 pm
Operator : dharas
Sample : ic1778-1
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:18:33 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB	
	Internal Standards							
1) I	1-bromo-2...	1.798	2.074	404.6E6	350.7E6	50.000	50.000	
	System Monitoring Compounds							
2) SAB	Tetrachlo...	2.586	3.109	6962584	6110595	0.922m	0.964	
	Spiked Amount 40.000 Range 30 - 150 Recovery =					2.31%#	2.41%#	
24) SA	Decachlor...	10.251	11.660	6737480	4639115	0.857m	0.824	
	Spiked Amount 40.000 Recovery =					2.14%	2.06%	
	Target Compounds							
3) A	alpha-BHC	3.154	3.871	9435652	9644001	1.001	1.141	
4) MA	gamma-BHC	3.501	4.355	7770516	7902276	0.961	1.030	
5) MA	Heptachlor	3.819	4.979	7052339	8539292	0.812	1.079	#
6) B	beta-BHC	3.610	4.450	3847992	3733076	0.987	1.065	
7) B	delta-BHC	4.063	4.881	7421452	6995438	0.936	0.997	
8) MB	Aldrin	4.438	5.463	7708909	9027664	0.913	1.177	#
9) B	Heptachlo...	5.205	6.326	6953341	8070682	0.945	1.147	
10) B	gamma-Chl...	5.384	6.627	6671076	6909544	0.935m	0.997	
11) B	alpha-Chl...	5.567	6.860	8387247	7793341	1.135	1.133	
12) A	Endosulfan I	5.753	6.966	8617919	6752682	1.072	1.023	
13) B	4,4'-DDE	5.693	7.121	8224968	6954461	1.403	1.061	
14) MA	Dieldrin	6.091	7.414	6900266	7069632	0.925m	1.032	
15) MA	Endrin	6.428	7.935	6964797	6178520	1.002m	1.002	
16) A	4,4'-DDD	6.572	8.094	6042117	5592972	1.098	1.011	
17) B	Endosulfa...	6.769	8.293	5885684	6240514	0.870	1.015	
18) MA	4,4'-DDT	6.998	8.637	2984622	5047828	1.377	1.067	
19) B	Endrin Al...	7.405	8.867	5880255	5075556	1.029	1.030	
20) B	Endosulfa...	8.099	9.341	6211467	5458341	1.068	1.073	
21) A	Methoxychlor	7.807	9.844	2446157	2727859	0.820m	1.017	
22)	Mirex	7.997	10.161	6420057	5072743	1.034	1.092	
23) B	Endrin Ke...	8.563	10.202	6337010	5962417	0.938m	1.092	

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

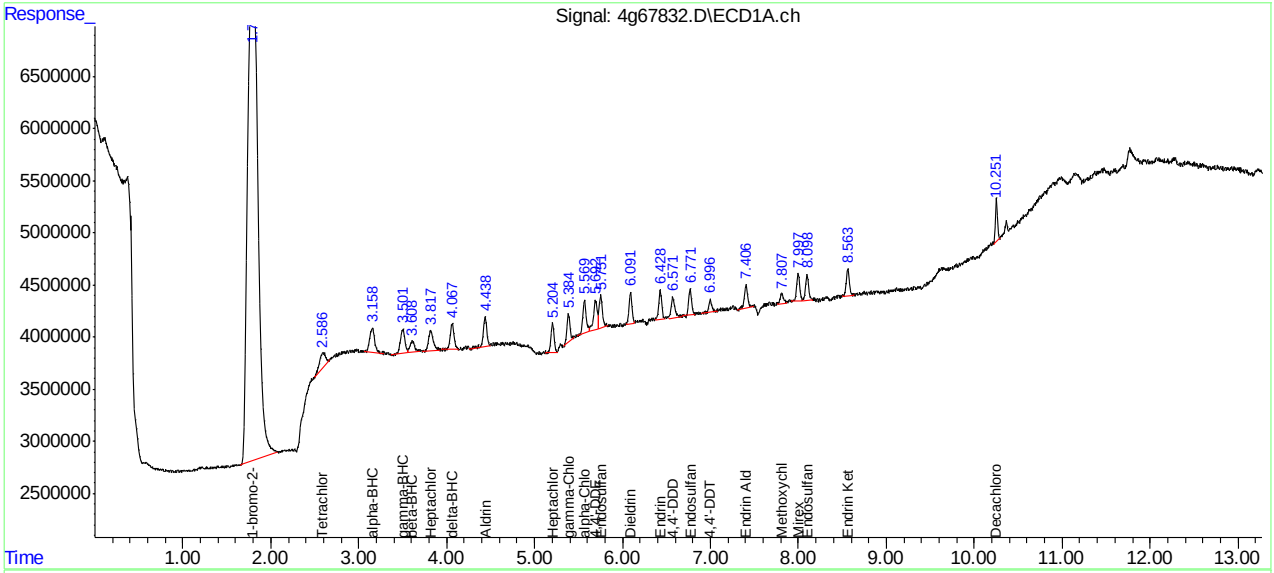
11.6.1 11

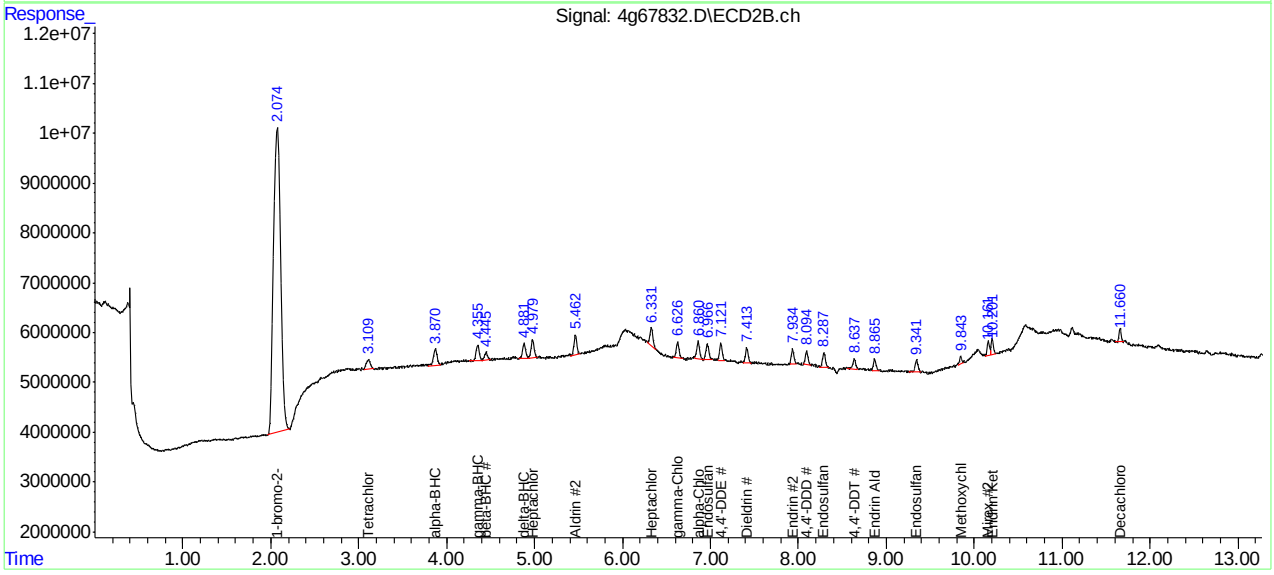
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67832.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 2:26 pm
Operator : dharas
Sample : ic1778-1
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:18:33 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





Manual Integration Approval Summary

Sample Number:	G4G1778-IC1778	**Method:**	SW846 8081B
Lab FileID:	4G67832.D	**Analyst approved:**	05/03/16 15:16 Rebecca Krug
Injection Time:	05/02/16 14:26	**Supervisor approved:**	05/04/16 11:11 Gwendolyn Burns

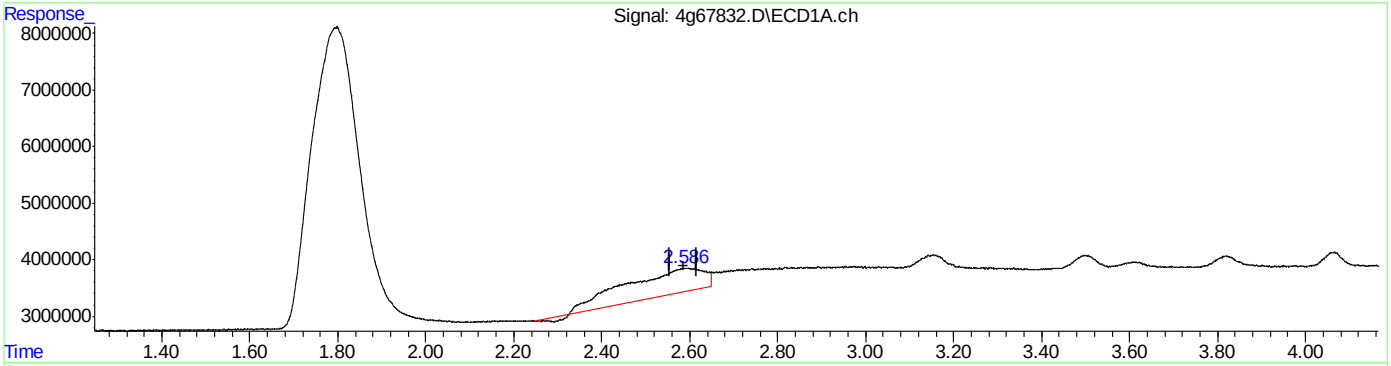
Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrachloro-m-xylene	877-09-8	1	2.59	Poorly defined baseline
gamma-Chlordane	5103-74-2	1	5.38	Poorly defined baseline
Dieldrin	60-57-1	1	6.09	Poorly defined baseline
Endrin	72-20-8	1	6.43	Poorly defined baseline
Methoxychlor	72-43-5	1	7.81	Poorly defined baseline
Endrin ketone	53494-70-5	1	8.56	Poorly defined baseline
Decachlorobiphenyl	2051-24-3	1	10.25	Poorly defined baseline

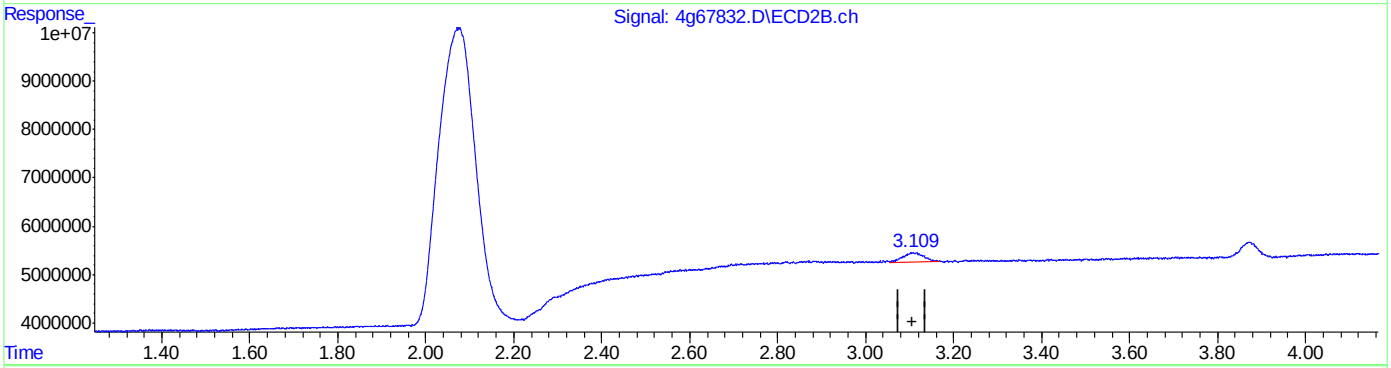
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67832.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 2:26 pm
Operator : dharas
Sample : ic1778-1
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:00:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(2) Tetrachloro-m-xylene (SAB)
2.587min 7.286 PPB
response 55021137

(2) Tetrachloro-m-xylene #2 (SAB)
3.109min 0.964 PPB
response 6110595

(+) = Expected Retention Time
4PST1778.M Tue May 03 15:00:24 2016 RPT1

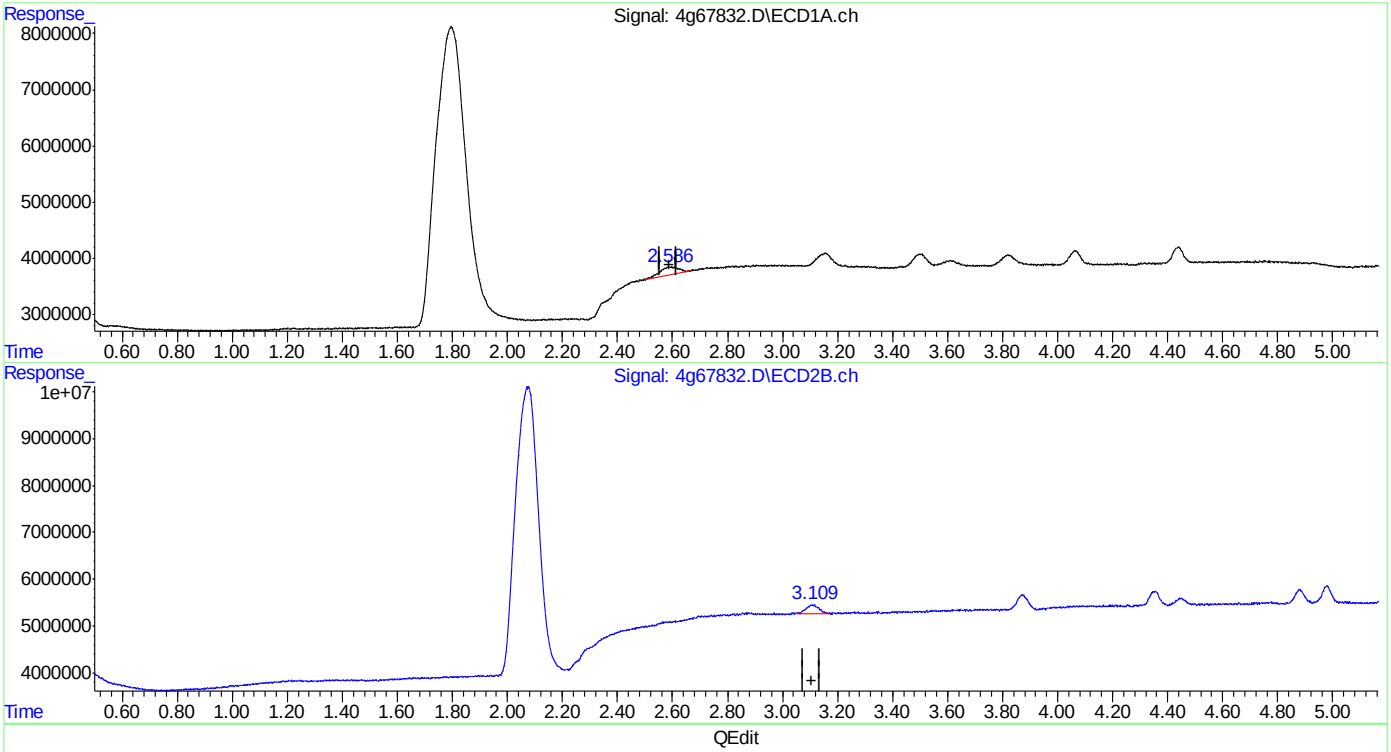
SGS ACCUTEST JC20098

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67832.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 2:26 pm
Operator : dharas
Sample : ic1778-1
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:00:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(2) Tetrachloro-m-xylene (SAB)
2.586min 0.922 PPB m
response 6962584

(2) Tetrachloro-m-xylene #2 (SAB)
3.109min 0.964 PPB
response 6110595

(+) = Expected Retention Time
4PST1778.M Tue May 03 15:00:29 2016 RPT1

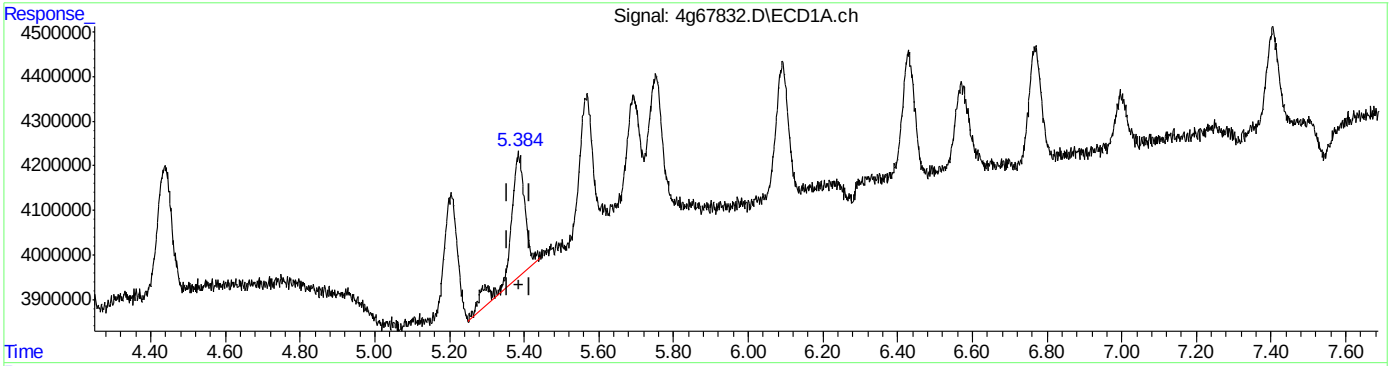
SGS ACCUTEST JC20098

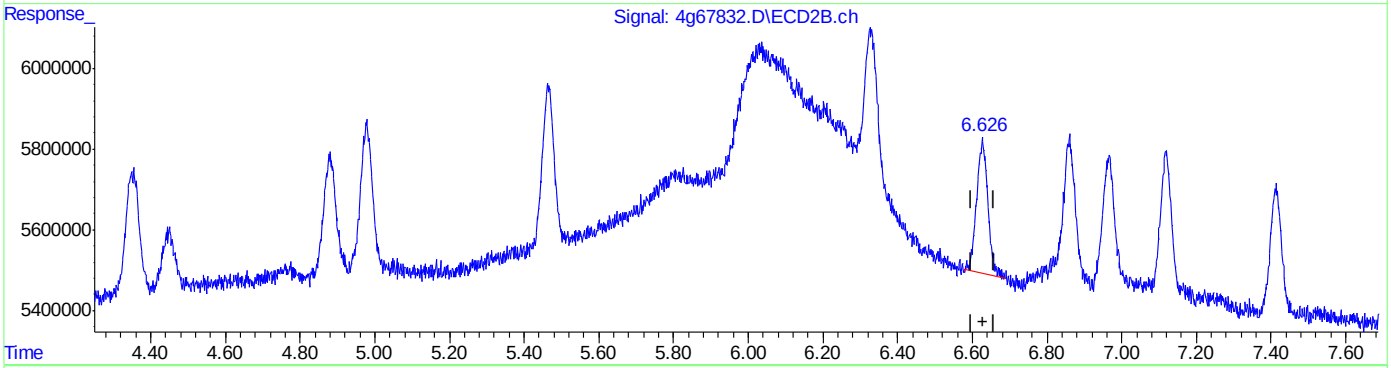
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67832.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 2:26 pm
Operator : dharas
Sample : ic1778-1
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:00:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(10) gamma-Chlordane (B)
5.385min 1.073 PPB
response 7652075

(10) gamma-Chlordane #2 (B)
6.627min 0.997 PPB
response 6909544

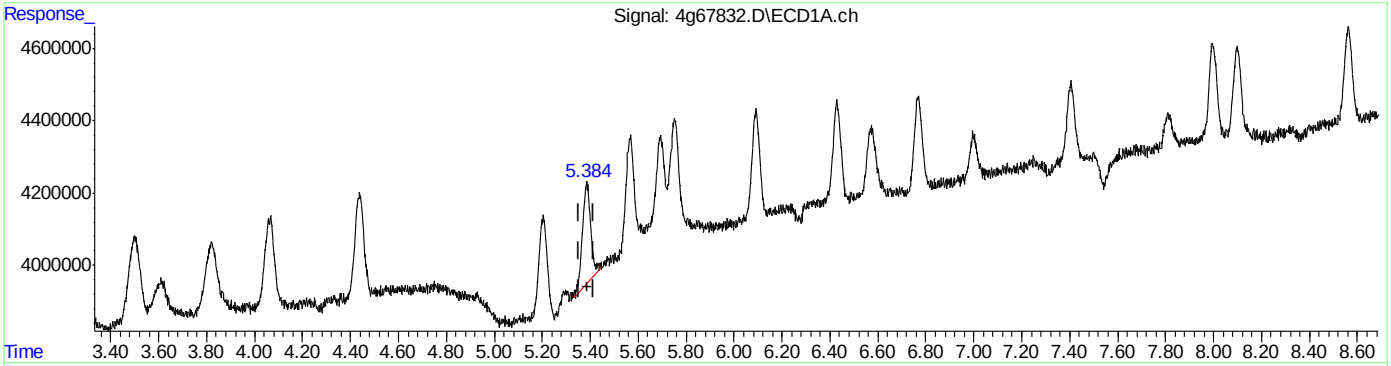
(+) = Expected Retention Time

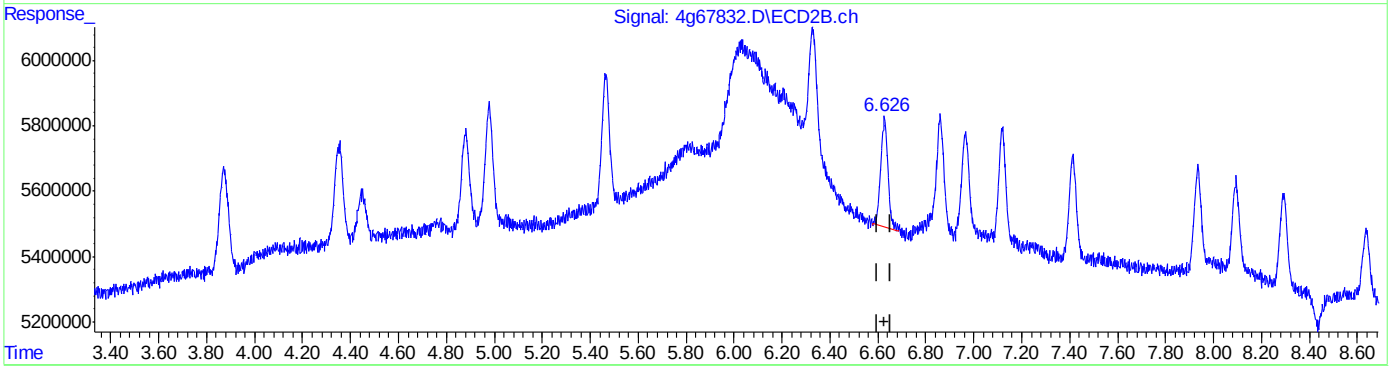
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67832.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 2:26 pm
Operator : dharas
Sample : ic1778-1
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:00:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(10) gamma-Chlordane (B)
5.384min 0.935 PPB m
response 6671076

(10) gamma-Chlordane #2 (B)
6.627min 0.997 PPB
response 6909544

(+) = Expected Retention Time
4PST1778.M Tue May 03 15:00:44 2016 RPT1

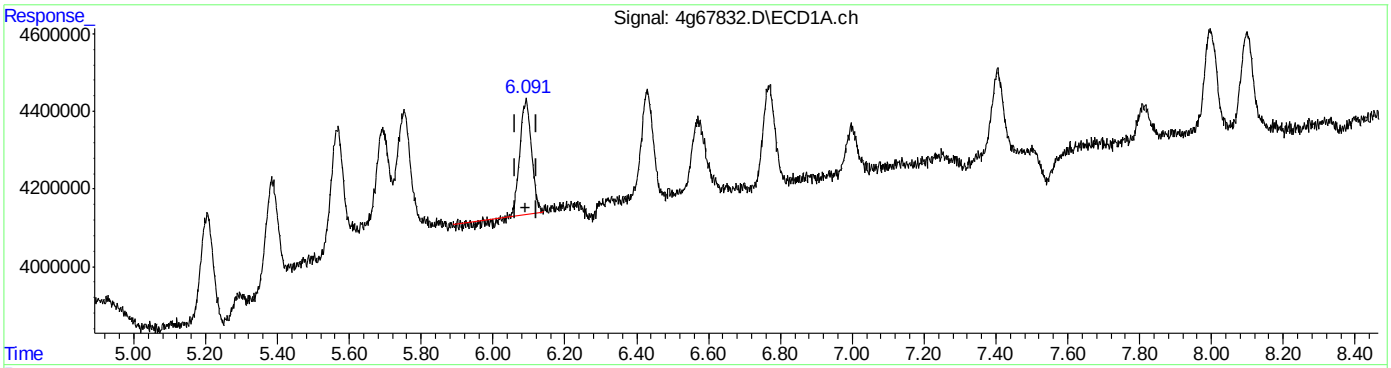
SGS ACCUTEST JC20098

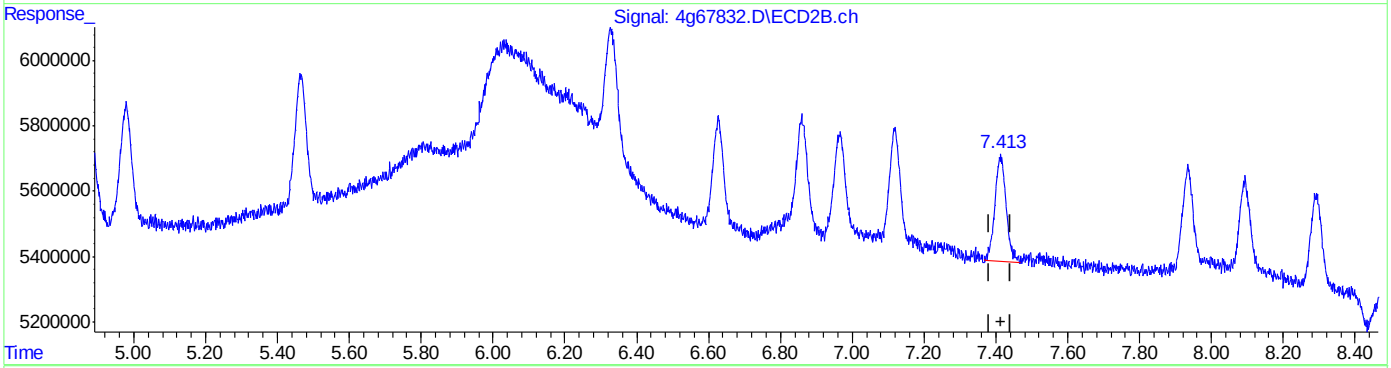
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67832.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 2:26 pm
Operator : dharas
Sample : ic1778-1
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:00:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(14) Dieldrin (MA)
6.092min 0.853 PPB
response 6362395

(14) Dieldrin #2 (MA)
7.414min 1.032 PPB
response 7069632

(+) = Expected Retention Time
4PST1778.M Tue May 03 15:00:55 2016 RPT1

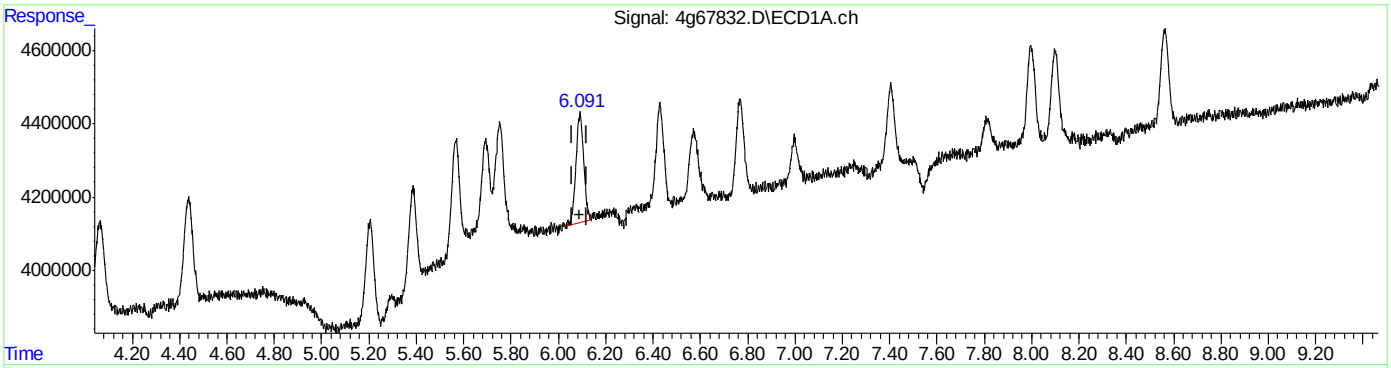
SGS ACCUTEST JC20098

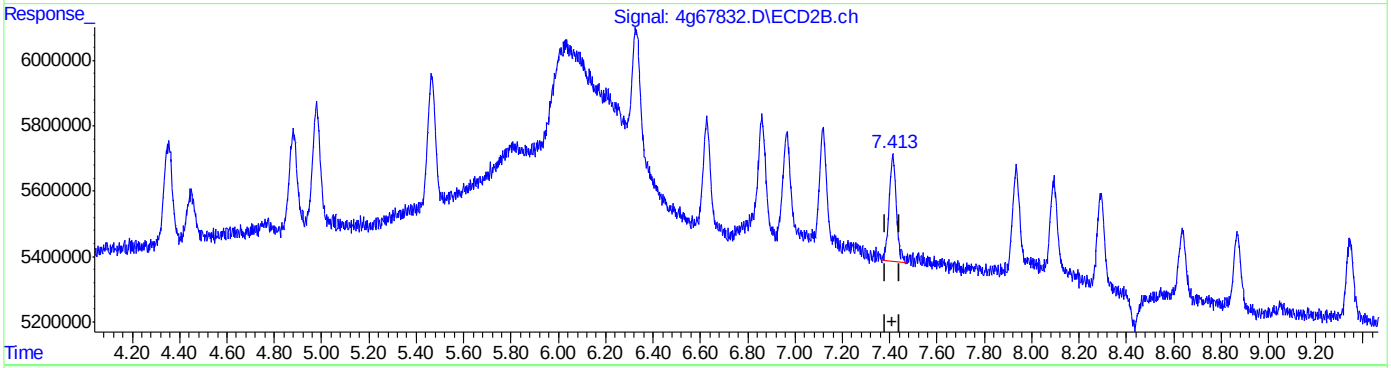
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67832.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 2:26 pm
Operator : dharas
Sample : ic1778-1
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:00:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(14) Dieldrin (MA)
6.091min 0.925 PPB m
response 6900266

(14) Dieldrin #2 (MA)
7.414min 1.032 PPB
response 7069632

(+) = Expected Retention Time

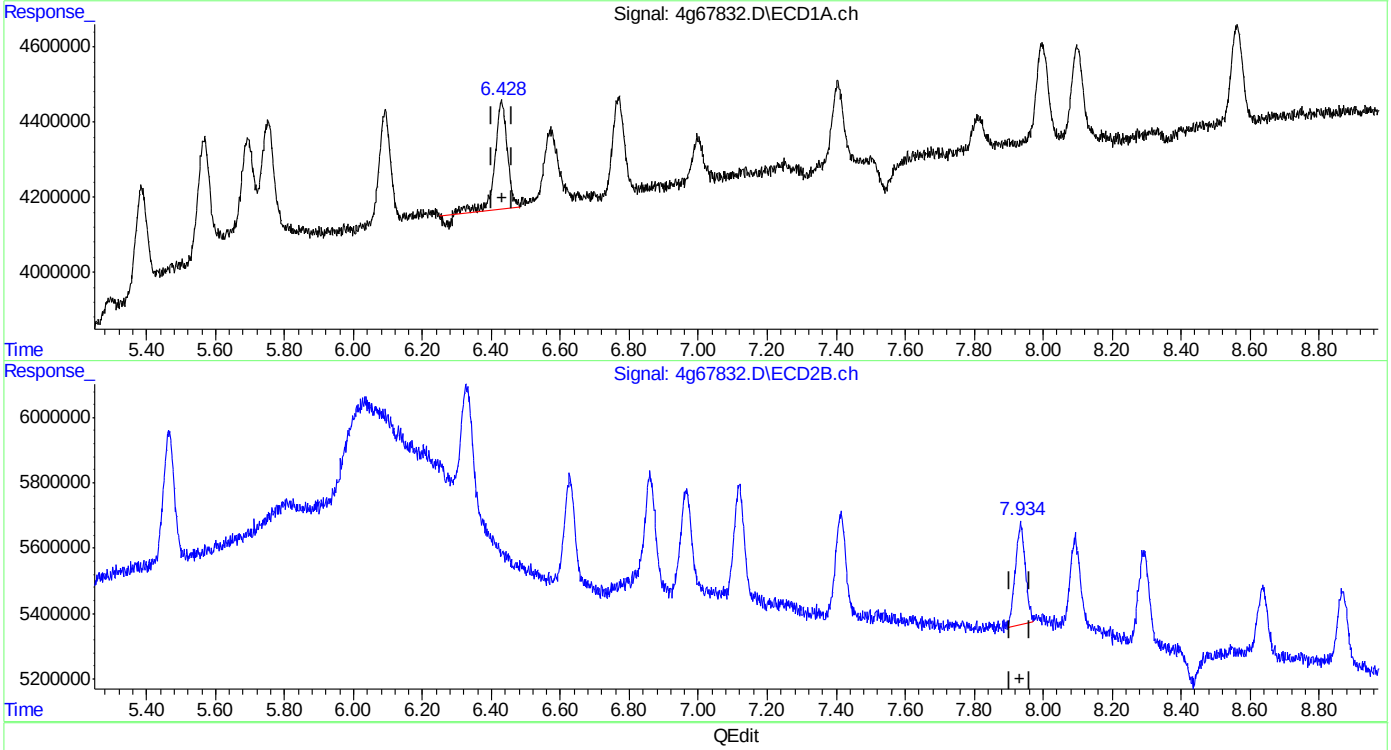
SGS ACCUTEST JC20098

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67832.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 2:26 pm
Operator : dharas
Sample : ic1778-1
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:00:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(15) Endrin (MA)
6.429min 1.047 PPB
response 7280251

(15) Endrin #2 (MA)
7.935min 1.002 PPB
response 6178520

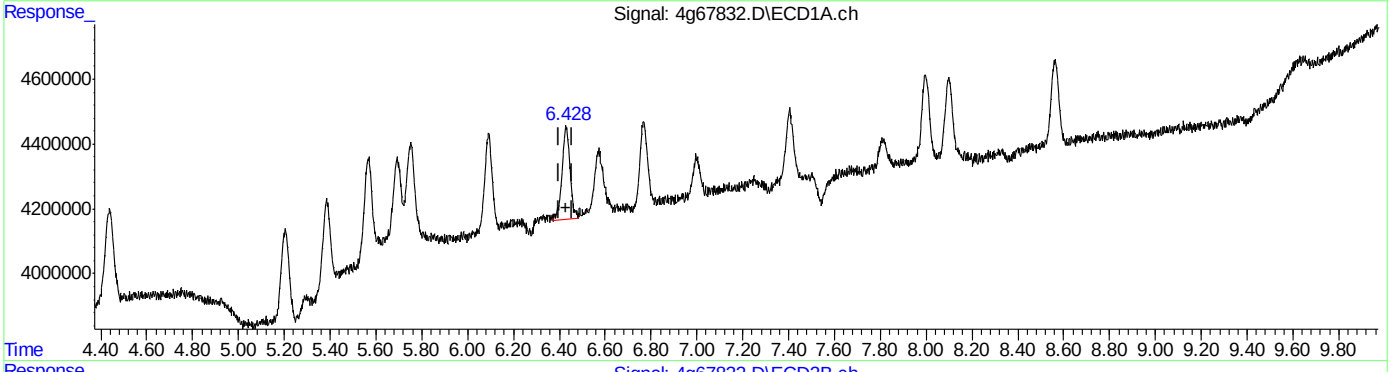
(+) = Expected Retention Time
4PST1778.M Tue May 03 15:01:03 2016 RPT1

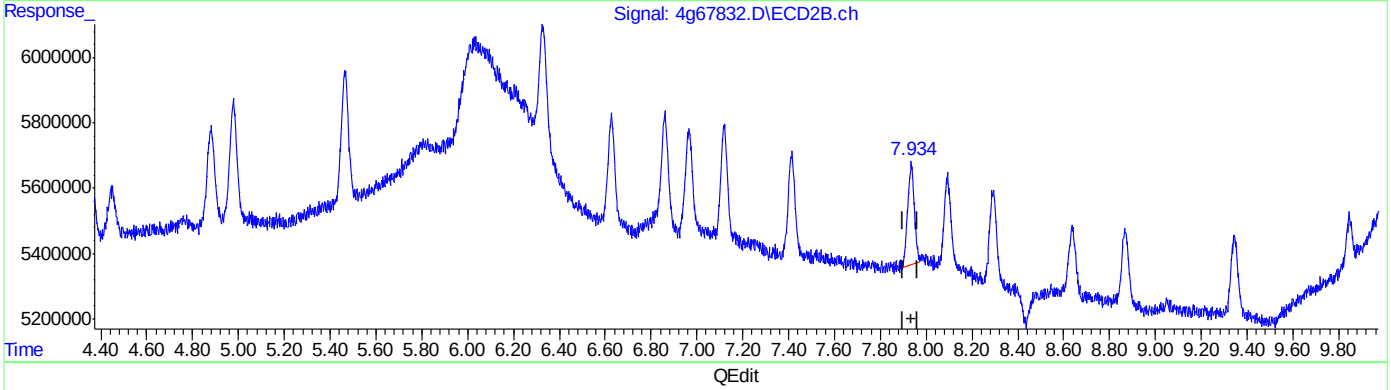
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67832.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 2:26 pm
Operator : dharas
Sample : ic1778-1
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:00:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(15) Endrin (MA)
6.428min 1.002 PPB m
response 6964797

(15) Endrin #2 (MA)
7.935min 1.002 PPB
response 6178520

(+) = Expected Retention Time

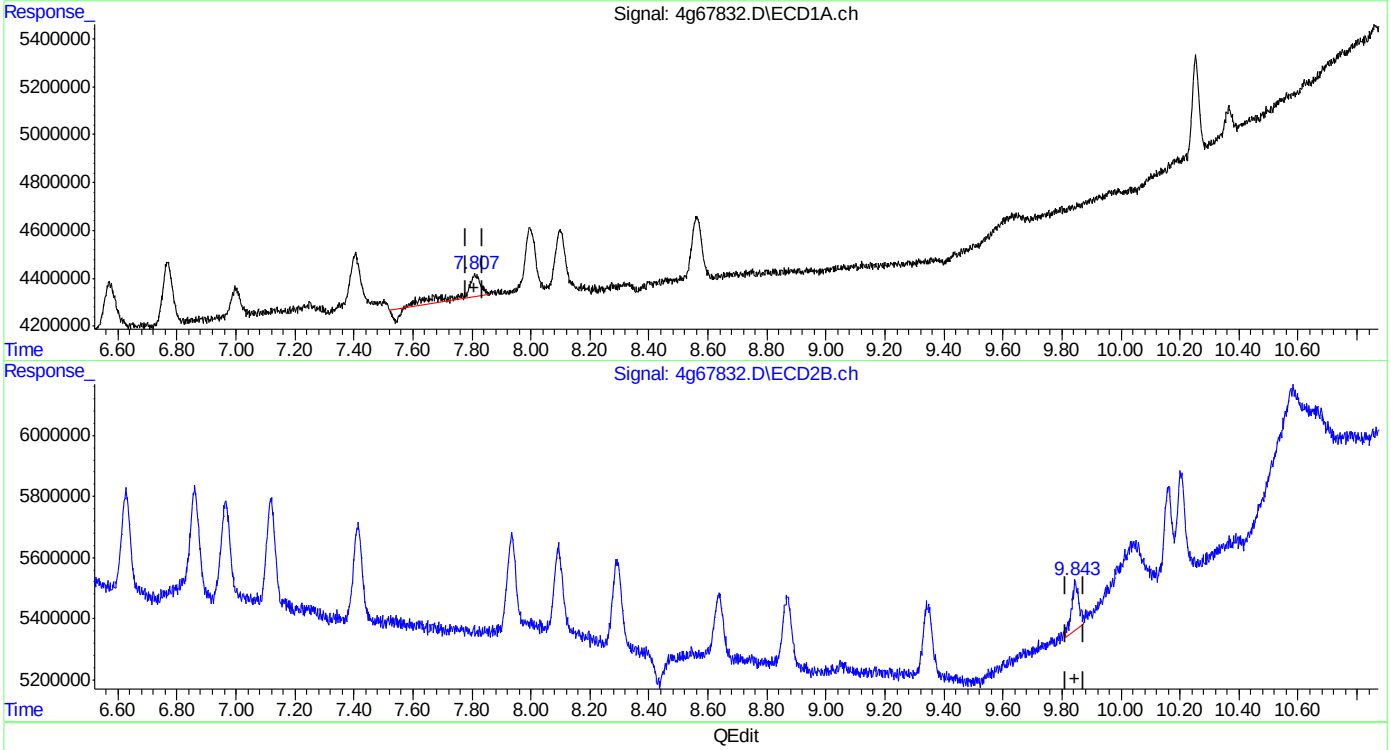
SGS ACCUTEST JC20098

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67832.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 2:26 pm
Operator : dharas
Sample : ic1778-1
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:00:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



(21) Methoxychlor (A)
7.811min 1.186 PPB
response 3539759

(21) Methoxychlor #2 (A)
9.844min 1.017 PPB
response 2727859

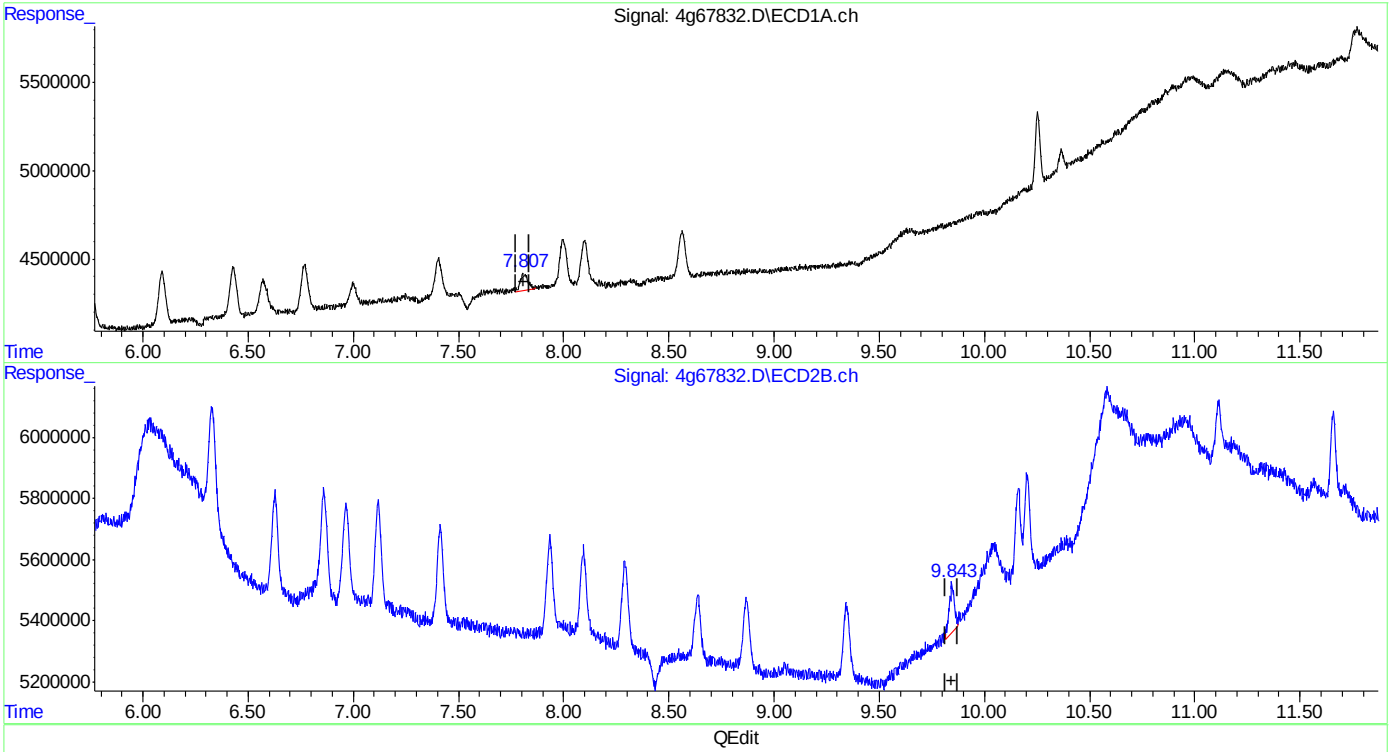
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67832.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 2:26 pm
Operator : dharas
Sample : ic1778-1
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:00:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(21) Methoxychlor (A)
7.807min 0.820 PPB m
response 2446157

(21) Methoxychlor #2 (A)
9.844min 1.017 PPB
response 2727859

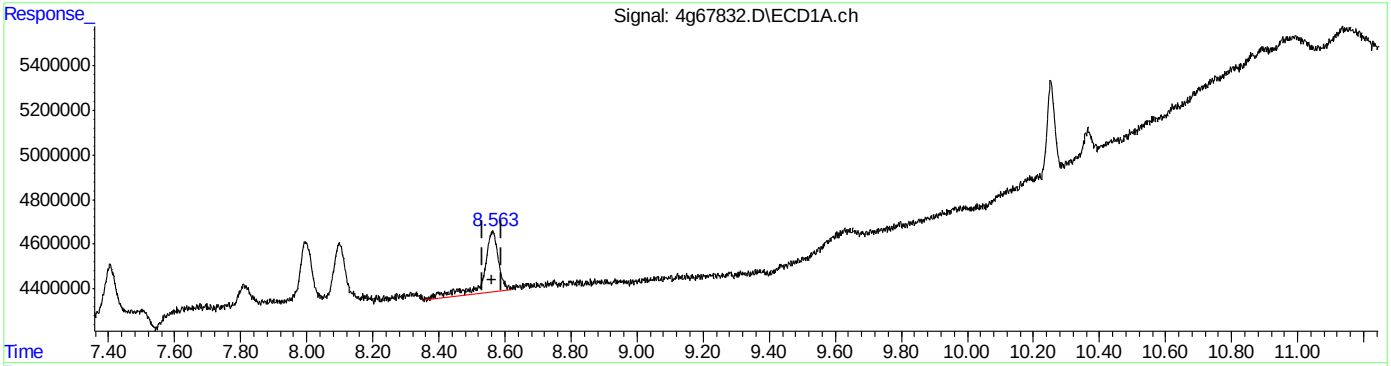
(+) = Expected Retention Time
4PST1778.M Tue May 03 15:01:22 2016 RPT1

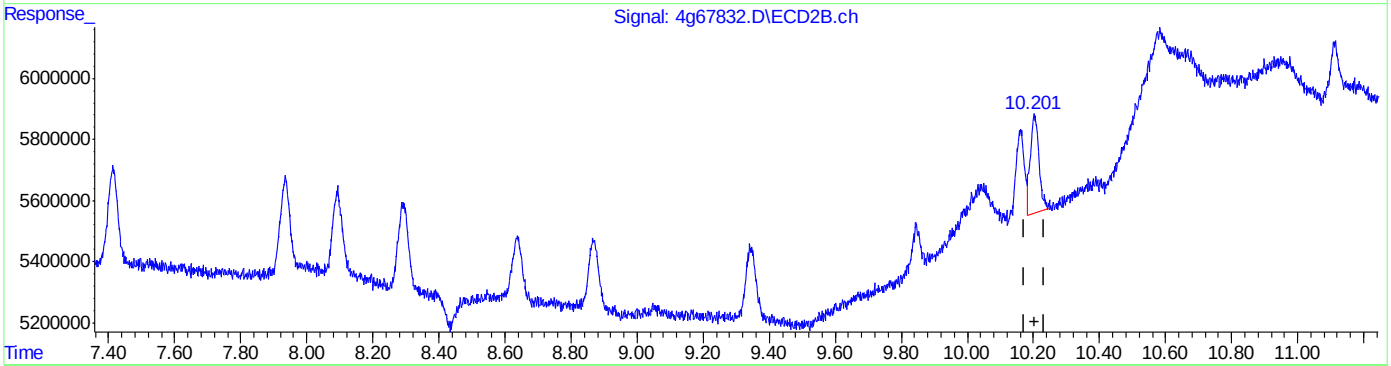
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67832.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 2:26 pm
Operator : dharas
Sample : ic1778-1
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:00:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(23) Endrin Ketone (B)
8.562min 1.247 PPB
response 8417859

(23) Endrin Ketone #2 (B)
10.202min 1.092 PPB
response 5962417

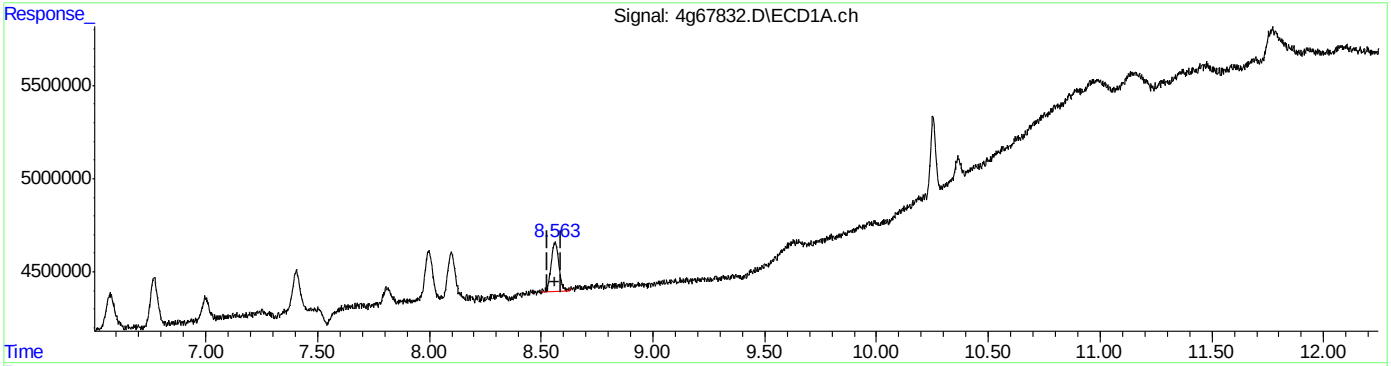
(+) = Expected Retention Time

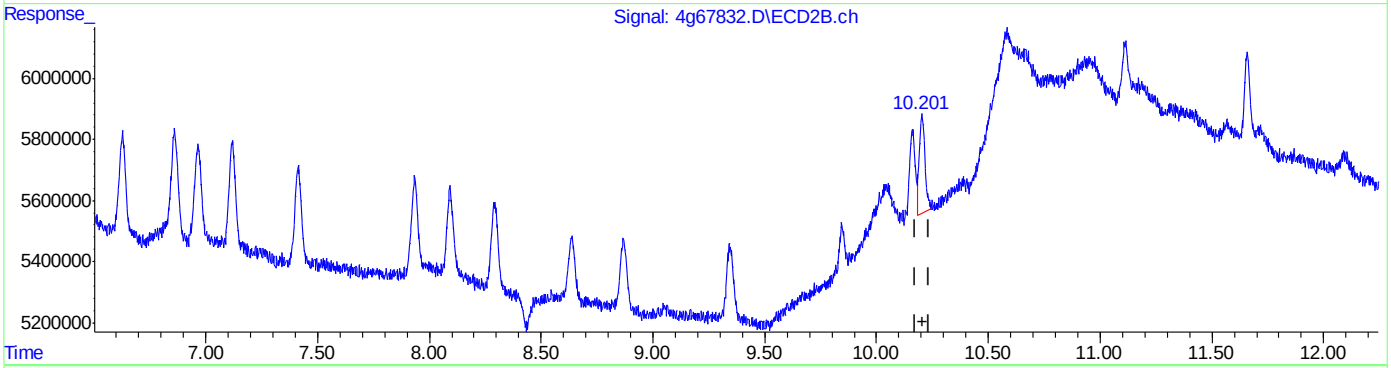
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67832.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 2:26 pm
Operator : dharas
Sample : ic1778-1
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:00:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(23) Endrin Ketone (B)
8.563min 0.938 PPB m
response 6337010

(23) Endrin Ketone #2 (B)
10.202min 1.092 PPB
response 5962417

(+) = Expected Retention Time
4PST1778.M Tue May 03 15:01:31 2016 RPT1

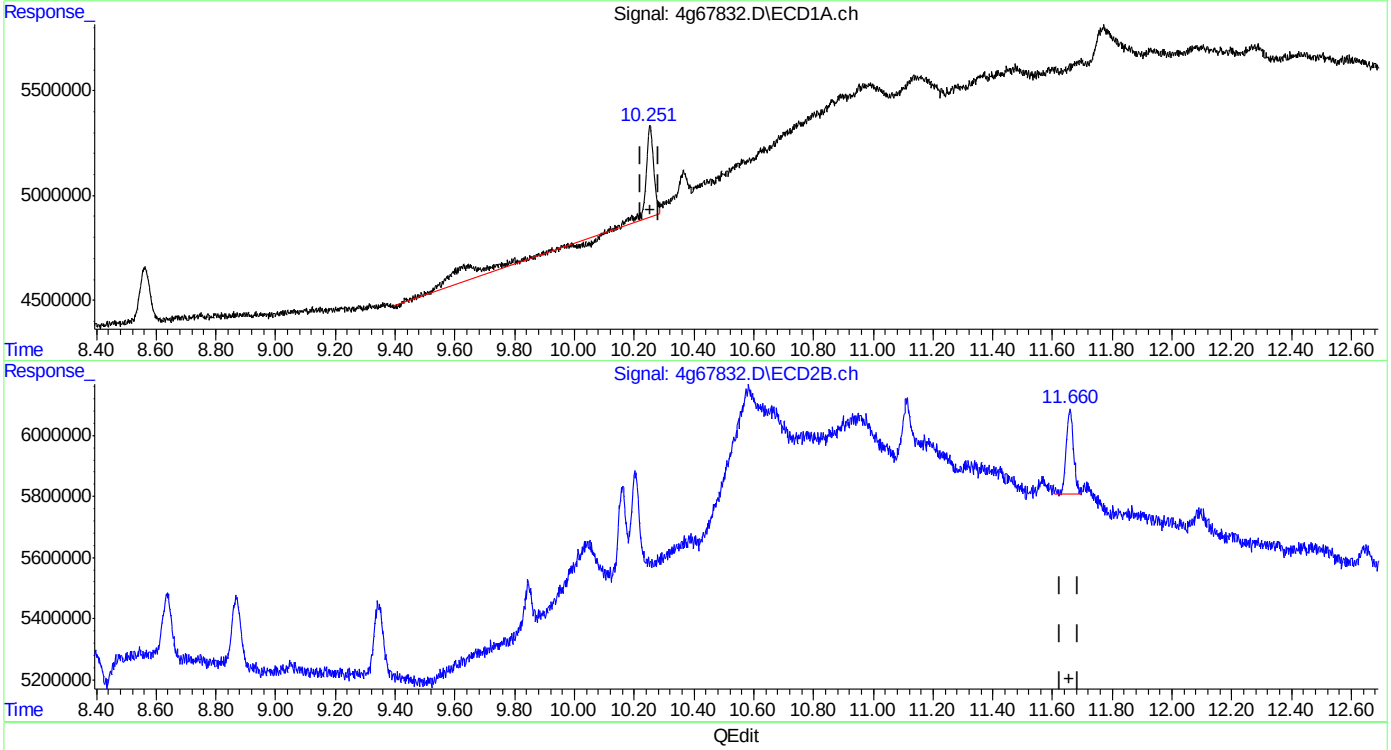
SGS ACCUTEST JC20098

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67832.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 2:26 pm
Operator : dharas
Sample : ic1778-1
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:00:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(24) Decachlorobiphenyl (SA)
10.253min 1.525 PPB
response 11996237

(24) Decachlorobiphenyl #2 (SA)
11.660min 0.824 PPB
response 4639115

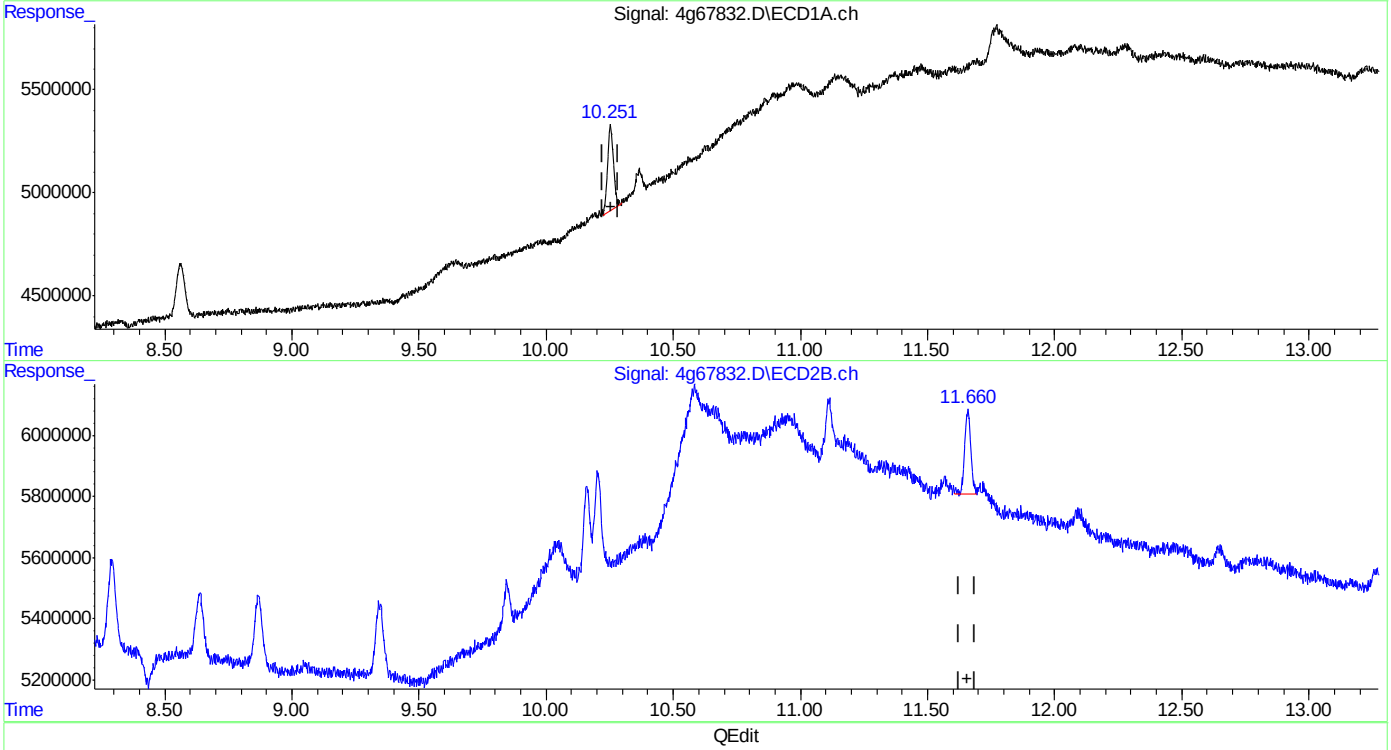
(+) = Expected Retention Time
4PST1778.M Tue May 03 15:01:33 2016 RPT1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67832.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 2:26 pm
Operator : dharas
Sample : ic1778-1
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:00:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



(24) Decachlorobiphenyl (SA)
10.251min 0.857 PPB m
response 6737480

(24) Decachlorobiphenyl #2 (SA)
11.660min 0.824 PPB
response 4639115

(+) = Expected Retention Time

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
05/04/16 11:11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67833.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 2:41 pm
Operator : dharas
Sample : ic1778-2
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:18:47 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.786	2.071	418.4E6	360.6E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	2.589	3.104	14628969	13534834	1.873m	2.076
	Spiked Amount 40.000	Range	30 - 150	Recovery	=	4.68%#	5.19%#
24) SA	Decachlor...	10.254	11.659	13928632	9697016	1.713m	1.676
	Spiked Amount 40.000			Recovery	=	4.28%	4.19%
	Target Compounds						
3) A	alpha-BHC	3.149	3.871	18365386	17879927	1.884	2.057
4) MA	gamma-BHC	3.498	4.350	15983959	16073254	1.912	2.037
5) MA	Heptachlor	3.822	4.975	14504205	16672961	1.616	2.048m#
6) B	beta-BHC	3.604	4.451	7565271	7627540	1.877	2.116
7) B	delta-BHC	4.062	4.880	14498248	15211216	1.768	2.108
8) MB	Aldrin	4.435	5.465	15323190	17494835	1.756	2.218 #
9) B	Heptachlo...	5.203	6.328	13774021	15746249	1.810	2.176
10) B	gamma-Chl...	5.382	6.628	13205173	14703573	1.791m	2.062
11) B	alpha-Chl...	5.567	6.860	16075989	16003308	2.104	2.262
12) A	Endosulfan I	5.750	6.965	15751275	14847420	1.895	2.188
13) B	4,4'-DDE	5.692	7.118	14669445	14441000	2.420	2.143
14) MA	Dieldrin	6.090	7.412	13366340	13877451	1.732	1.970
15) MA	Endrin	6.428	7.935	14271815	12518166	1.986	1.975
16) A	4,4'-DDD	6.572	8.093	11537678	11992111	2.028	2.108
17) B	Endosulfa...	6.768	8.291	13096497	12886995	1.871	2.039
18) MA	4,4'-DDT	6.997	8.638	6033350	9053134	1.984	1.860
19) B	Endrin Al...	7.407	8.869	11203774	9693232	1.896	1.913
20) B	Endosulfa...	8.099	9.347	12437414	11156263	2.067	2.133
21) A	Methoxychlor	7.813	9.845	4797125	5960684	1.555	2.162 #
22)	Mirex	7.998	10.159	12673452	9535377	1.974	1.996
23) B	Endrin Ke...	8.564	10.203	14581660	11550849	2.088	2.058

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

11.6.2 11

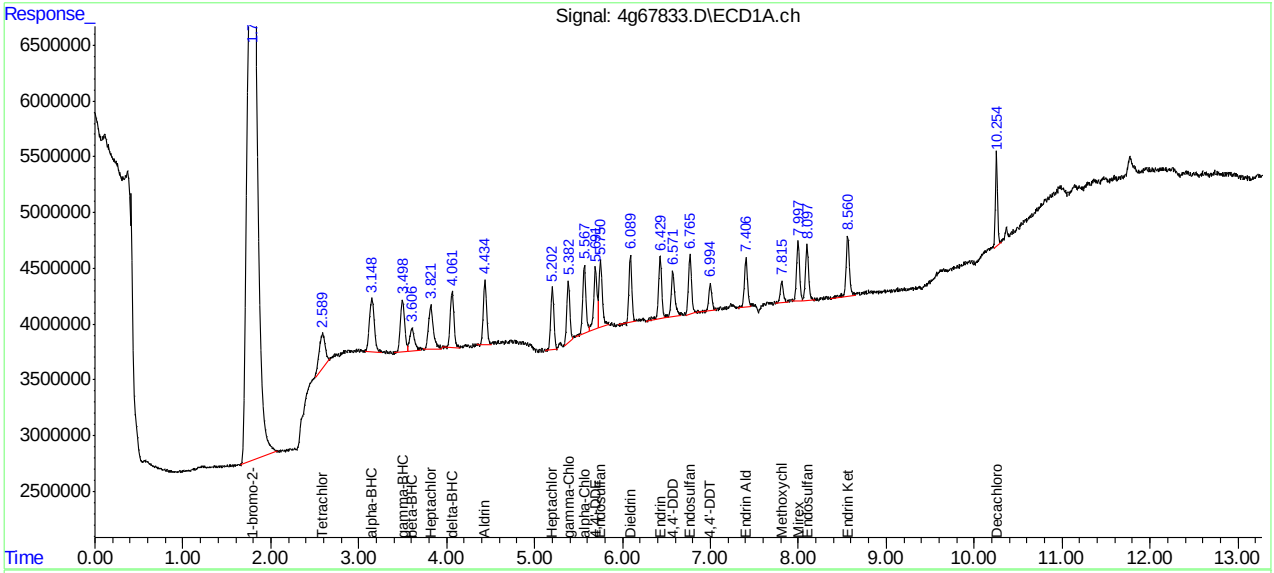
SGS ACCUTEST JC20098

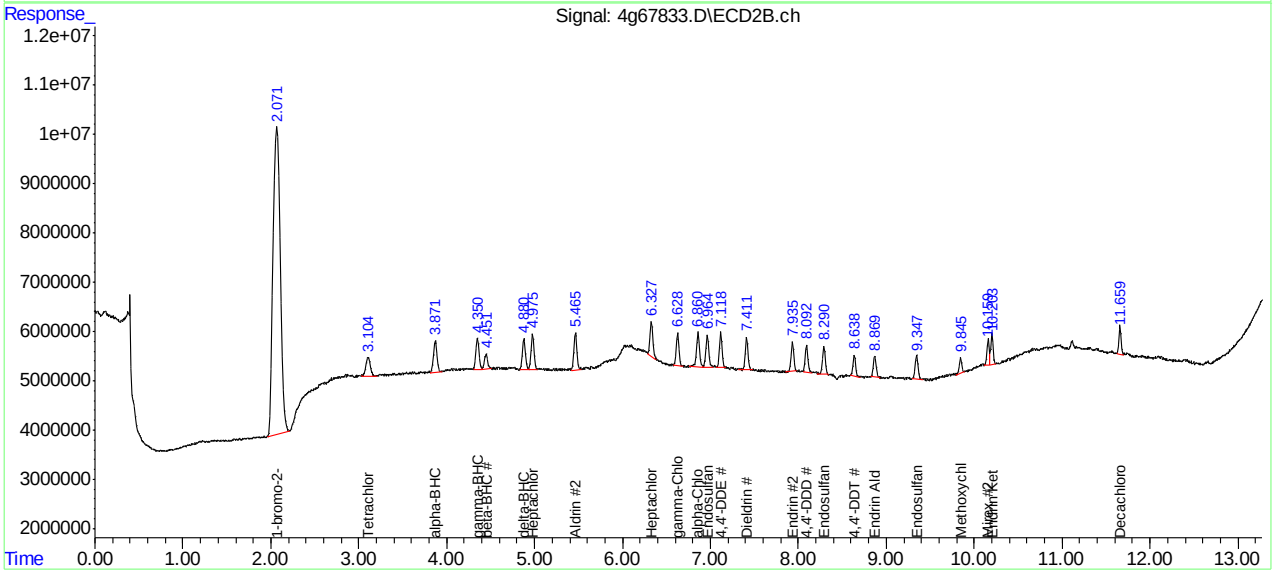
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67833.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 2:41 pm
Operator : dharas
Sample : ic1778-2
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:18:47 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





Manual Integration Approval Summary

Sample Number:	G4G1778-IC1778	**Method:**	SW846 8081B
Lab FileID:	4G67833.D	**Analyst approved:**	05/03/16 15:16 Rebecca Krug
Injection Time:	05/02/16 14:41	**Supervisor approved:**	05/04/16 11:11 Gwendolyn Burns

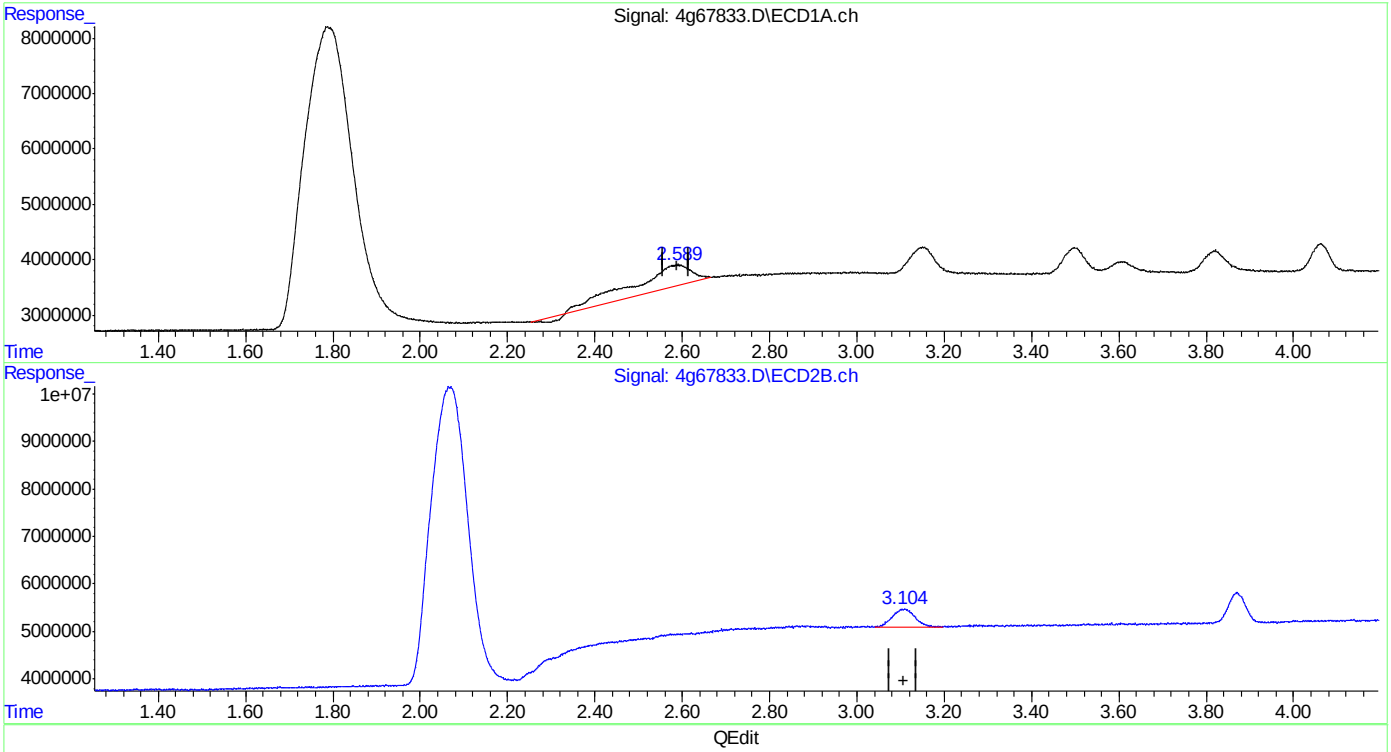
Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrachloro-m-xylene	877-09-8	1	2.59	Poorly defined baseline
Heptachlor	76-44-8	2	4.98	Poorly defined baseline
gamma-Chlordane	5103-74-2	1	5.38	Poorly defined baseline
Decachlorobiphenyl	2051-24-3	1	10.25	Poorly defined baseline

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67833.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 2:41 pm
Operator : dharas
Sample : ic1778-2
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 14:57:55 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(2) Tetrachloro-m-xylene (SAB)
2.589min 4.638 PPB
response 36214055

(2) Tetrachloro-m-xylene #2 (SAB)
3.104min 2.076 PPB
response 13534834

(+) = Expected Retention Time

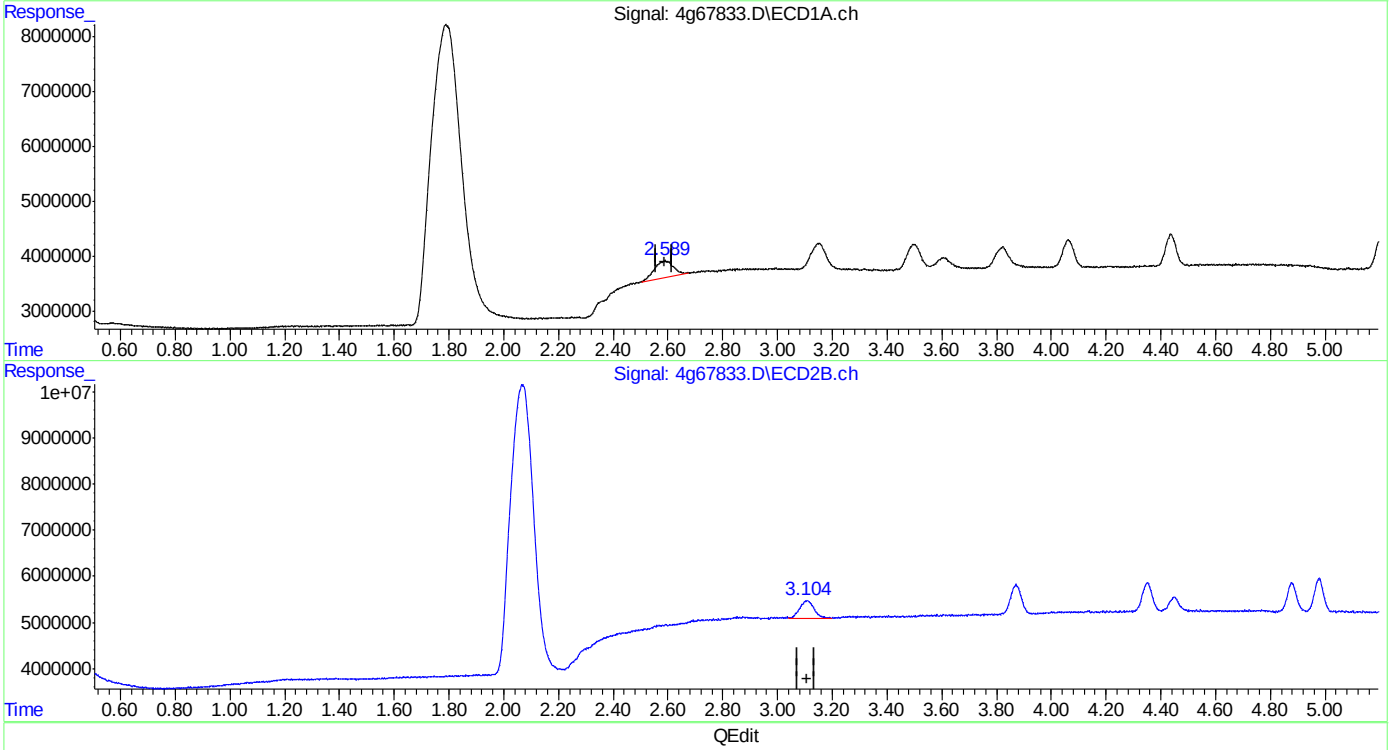
SGS ACCUTEST JC20098

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67833.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 2:41 pm
Operator : dharas
Sample : ic1778-2
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 14:57:55 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



(2) Tetrachloro-m-xylene (SAB)
2.589min 1.873 PPB m
response 14628969

(2) Tetrachloro-m-xylene #2 (SAB)
3.104min 2.076 PPB
response 13534834

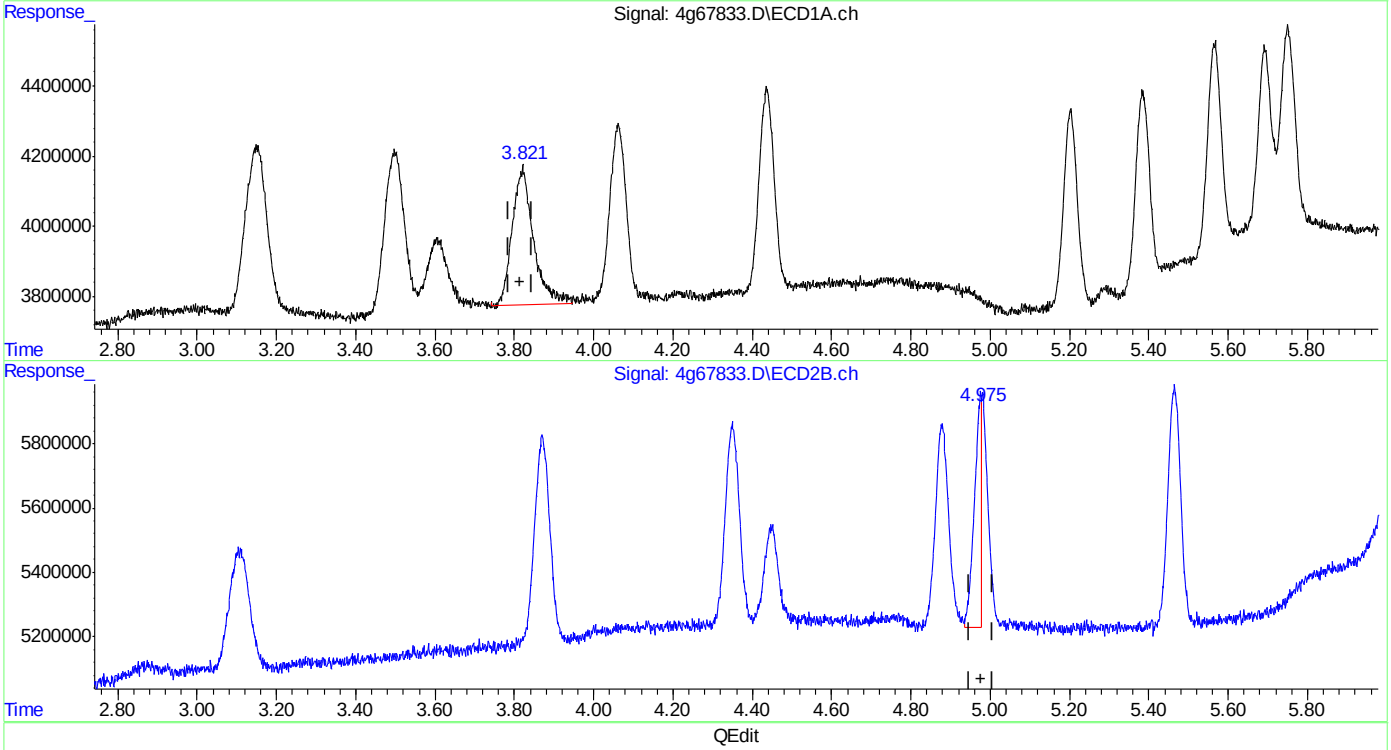
(+) = Expected Retention Time
4PST1778.M Tue May 03 14:58:05 2016 RPT1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67833.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 2:41 pm
Operator : dharas
Sample : ic1778-2
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 14:57:55 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



(5) Heptachlor (MA)
3.822min 1.616 PPB
response 14504205

(5) Heptachlor #2 (MA)
4.976min 1.088 PPB
response 8859133

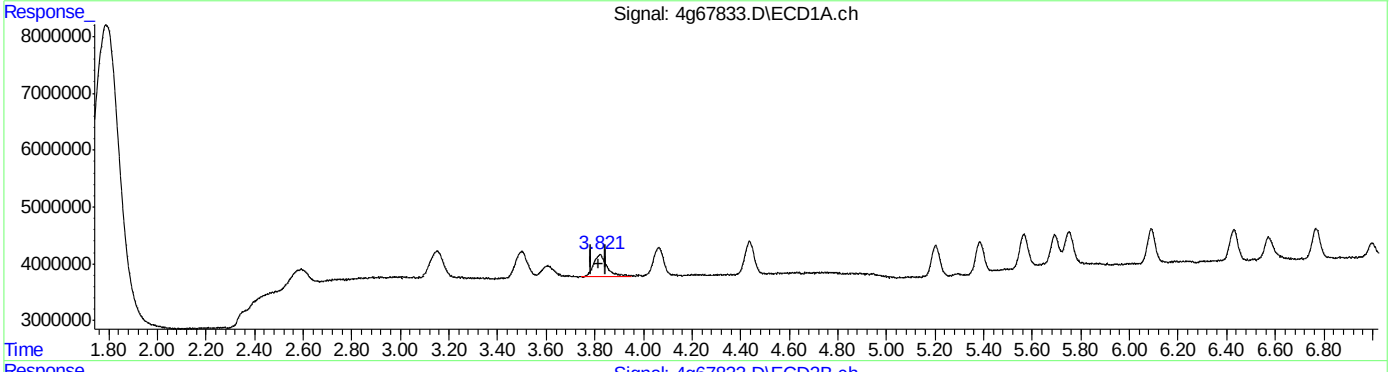
(+) = Expected Retention Time

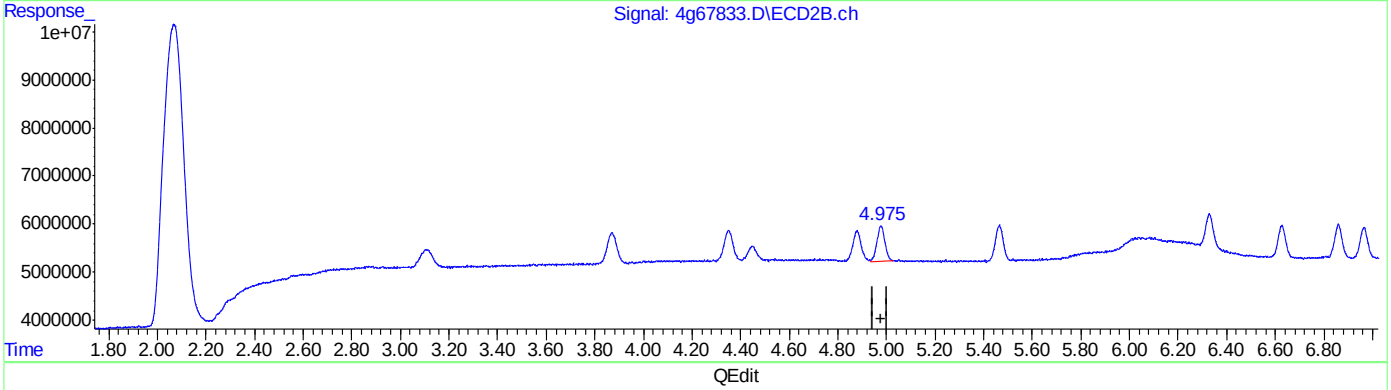
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67833.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 2:41 pm
Operator : dharas
Sample : ic1778-2
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 14:57:55 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(5) Heptachlor (MA)
3.822min 1.616 PPB
response 14504205

(5) Heptachlor #2 (MA)
4.975min 2.048 PPB m
response 16672961

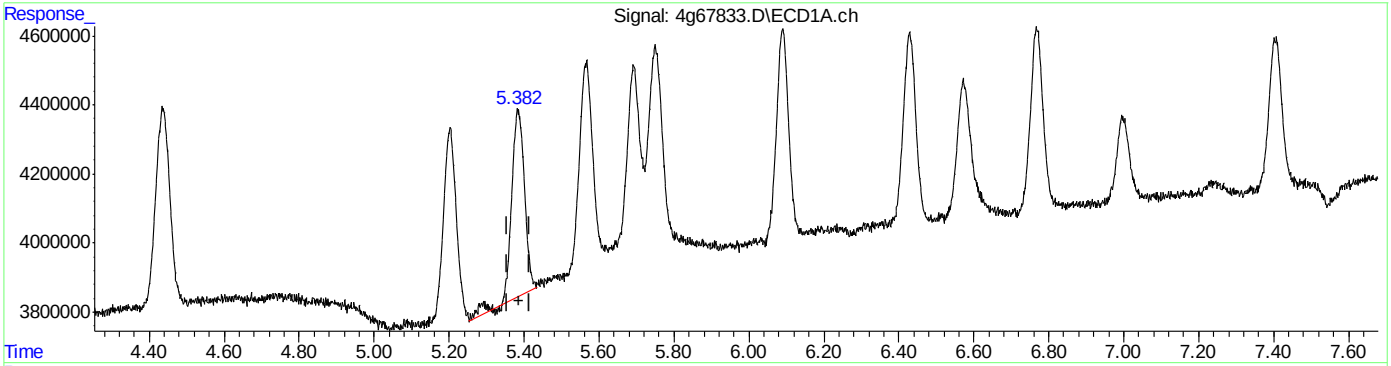
(+) = Expected Retention Time

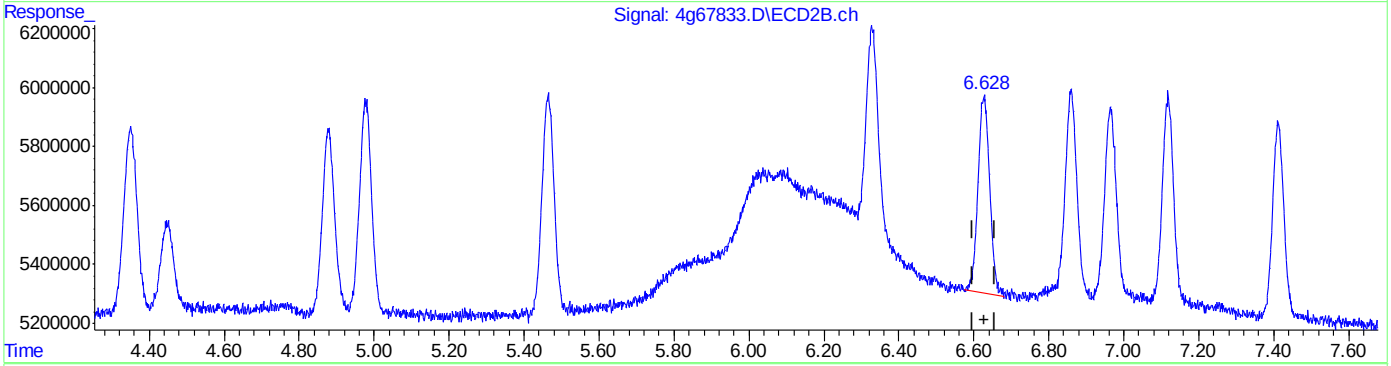
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67833.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 2:41 pm
Operator : dharas
Sample : ic1778-2
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 14:57:55 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(10) gamma-Chlordane (B)
5.384min 1.794 PPB
response 13233389

(10) gamma-Chlordane #2 (B)
6.628min 2.062 PPB
response 14703573

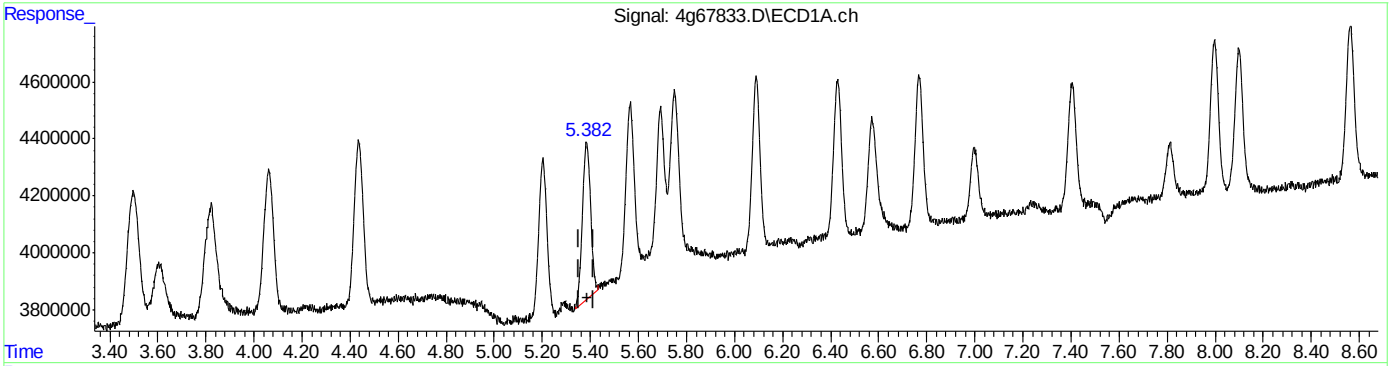
(+) = Expected Retention Time

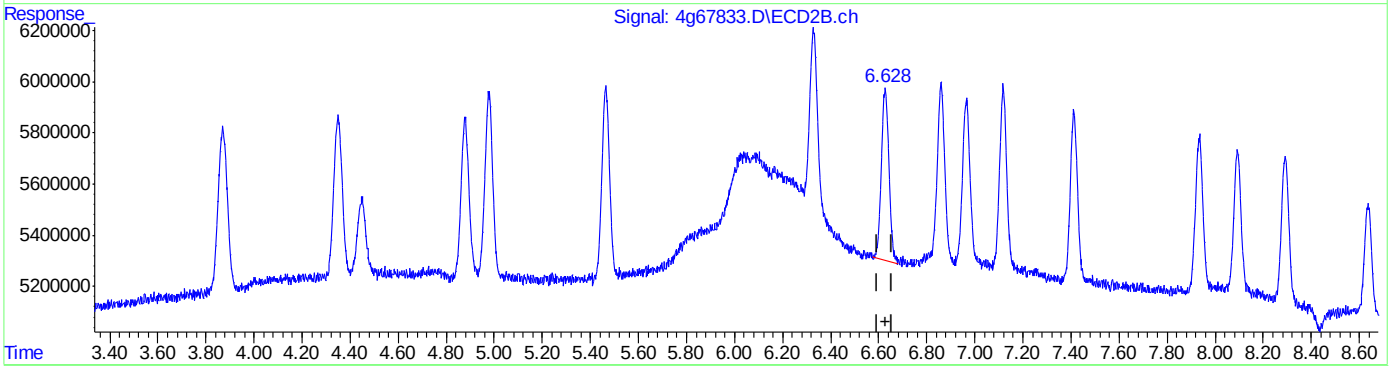
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67833.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 2:41 pm
Operator : dharas
Sample : ic1778-2
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 14:57:55 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(10) gamma-Chlordane (B)
5.382min 1.791 PPB m
response 13205173

(10) gamma-Chlordane #2 (B)
6.628min 2.062 PPB
response 14703573

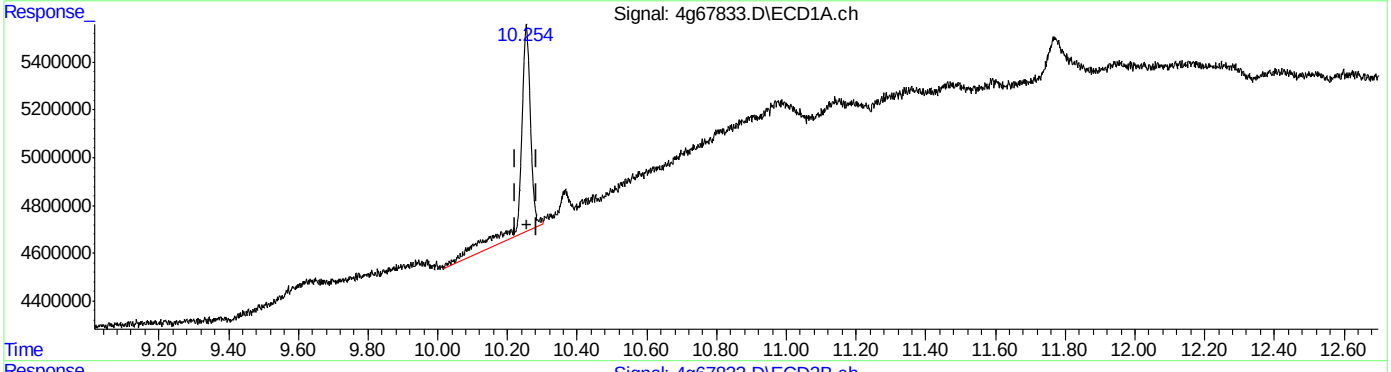
(+) = Expected Retention Time
4PST1778.M Tue May 03 14:58:30 2016 RPT1

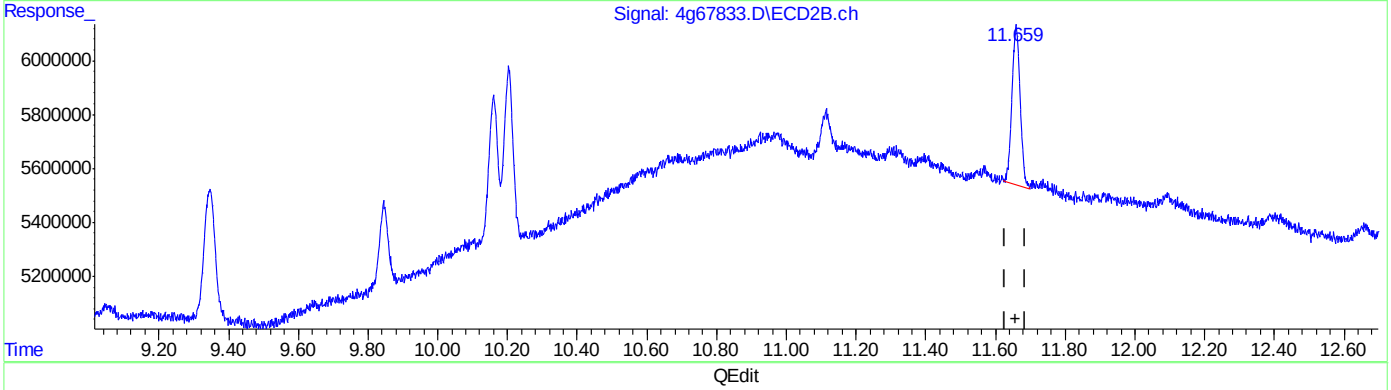
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67833.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 2:41 pm
Operator : dharas
Sample : ic1778-2
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 14:57:55 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(24) Decachlorobiphenyl (SA)
10.255min 2.237 PPB
response 18196219

(24) Decachlorobiphenyl #2 (SA)
11.659min 1.676 PPB
response 9697016

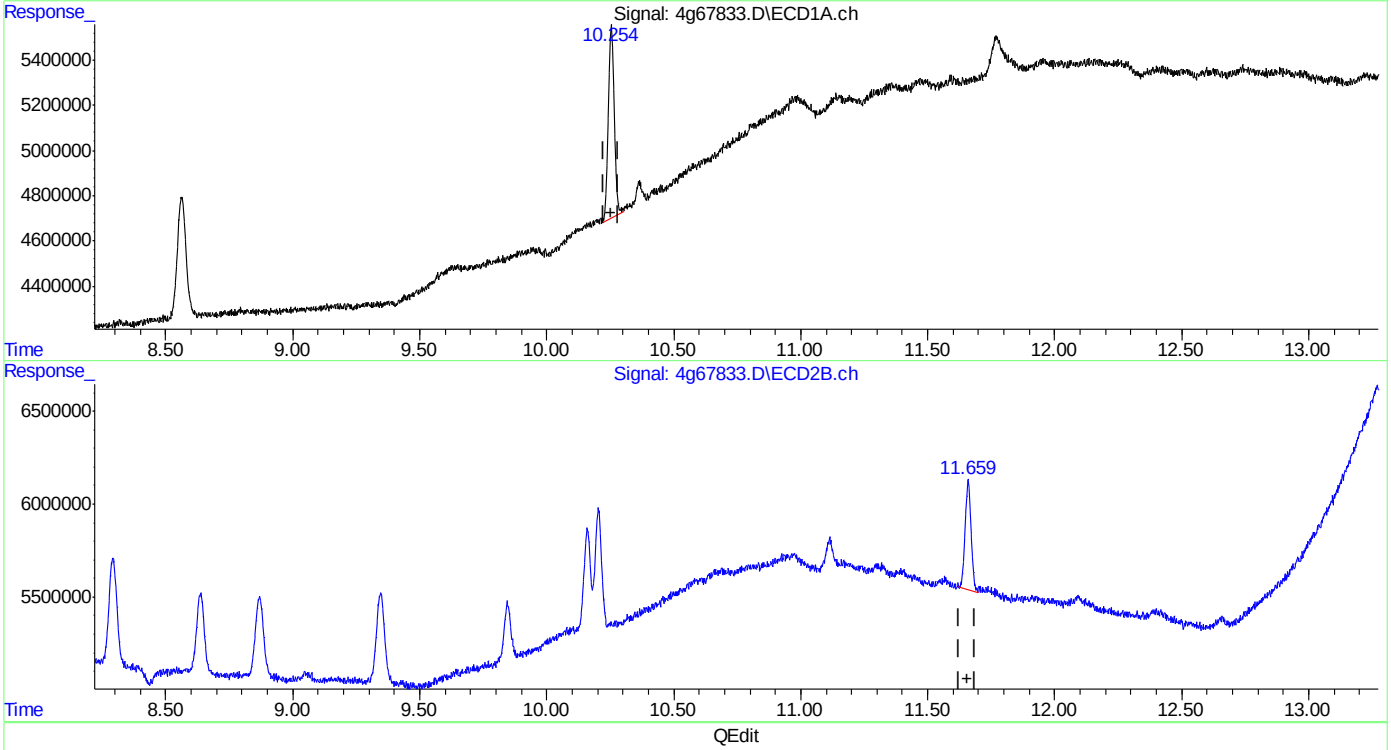
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67833.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 2:41 pm
Operator : dharas
Sample : ic1778-2
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 14:57:55 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



(24) Decachlorobiphenyl (SA)
10.254min 1.713 PPB m
response 13928632

(24) Decachlorobiphenyl #2 (SA)
11.659min 1.676 PPB
response 9697016

(+) = Expected Retention Time
4PST1778.M Tue May 03 14:58:58 2016 RPT1

SGS ACCUTEST JC20098

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 05/04/16 11:11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67834.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 2:56 pm
Operator : dharas
Sample : ic1778-5
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:19:00 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB	
	Internal Standards							
1) I	1-bromo-2...	1.797	2.075	435.6E6	375.6E6	50.000	50.000	
	System Monitoring Compounds							
2) SAB	Tetrachlo...	2.589	3.110	37120423	31510534	4.566m	4.642	
	Spiked Amount 40.000	Range	30 - 150	Recovery	=	11.42%#	11.61%#	
24) SA	Decachlor...	10.254	11.657	33146111	23062577	3.915	3.827	
	Spiked Amount 40.000			Recovery	=	9.79%	9.57%	
	Target Compounds							
3) A	alpha-BHC	3.153	3.874	46219553	43431583	4.553	4.798	
4) MA	gamma-BHC	3.504	4.351	40547275	39948855	4.659	4.861	
5) MA	Heptachlor	3.818	4.979	36931170	42263285	3.952	4.986	#
6) B	beta-BHC	3.606	4.449	19597202	18993035	4.670	5.060	
7) B	delta-BHC	4.064	4.881	36808299	37184195	4.312	4.949	
8) MB	Aldrin	4.439	5.466	38643434	40469208	4.253	4.926	
9) B	Heptachlo...	5.202	6.330	34168170	37267227	4.314	4.945	
10) B	gamma-Chl...	5.386	6.627	34551843	36408537	4.500	4.904	
11) B	alpha-Chl...	5.566	6.860	38177274	36218841	4.799m	4.916	
12) A	Endosulfan I	5.753	6.965	38581346	35170488	4.459	4.976	
13) B	4,4'-DDE	5.694	7.119	34073143	36221405	5.400	5.160	
14) MA	Dieldrin	6.091	7.413	35667338	35546228	4.440	4.846	
15) MA	Endrin	6.429	7.935	33499994	32244532	4.477	4.884	
16) A	4,4'-DDD	6.572	8.093	27165840	28835872	4.587	4.868	
17) B	Endosulfa...	6.770	8.293	32658172	31838628	4.482	4.837	
18) MA	4,4'-DDT	6.998	8.637	16296273	23974623	3.946	4.731	
19) B	Endrin Al...	7.405	8.868	27297036	24559300	4.438	4.654	
20) B	Endosulfa...	8.100	9.345	30350970	27674564	4.846	5.081	
21) A	Methoxychlor	7.812	9.844	11400355	14306289	3.549	4.982	#
22)	Mirex	7.998	10.159	32427661	22642104	4.853	4.551	
23) B	Endrin Ke...	8.563	10.203	34261066	28771653	4.713	4.923	

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

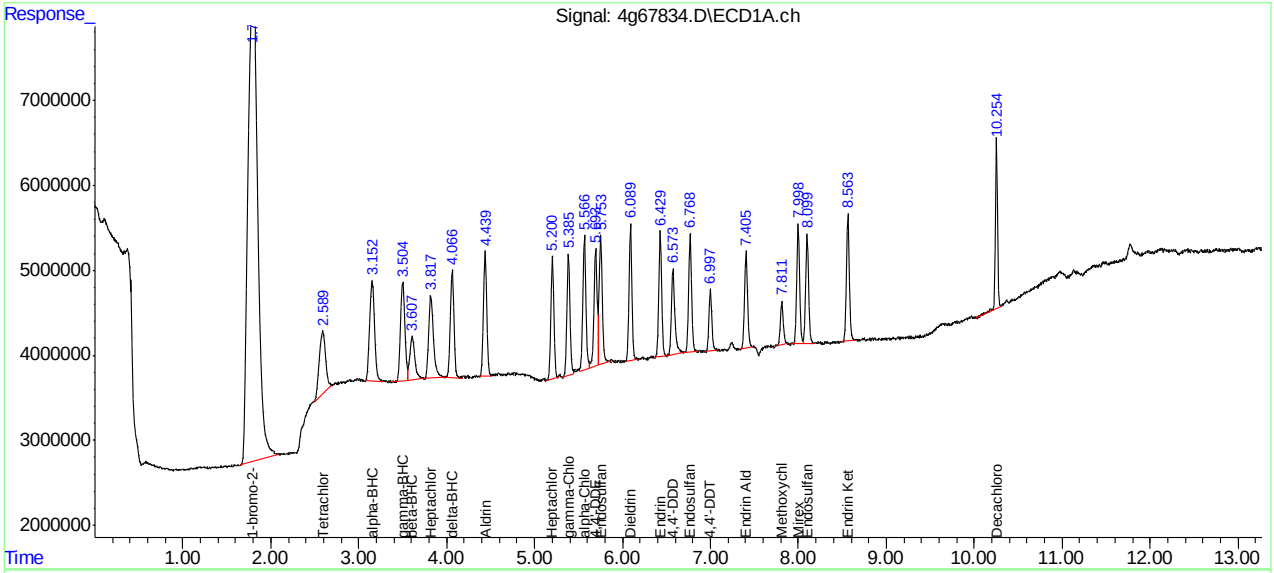
11.6.3 11

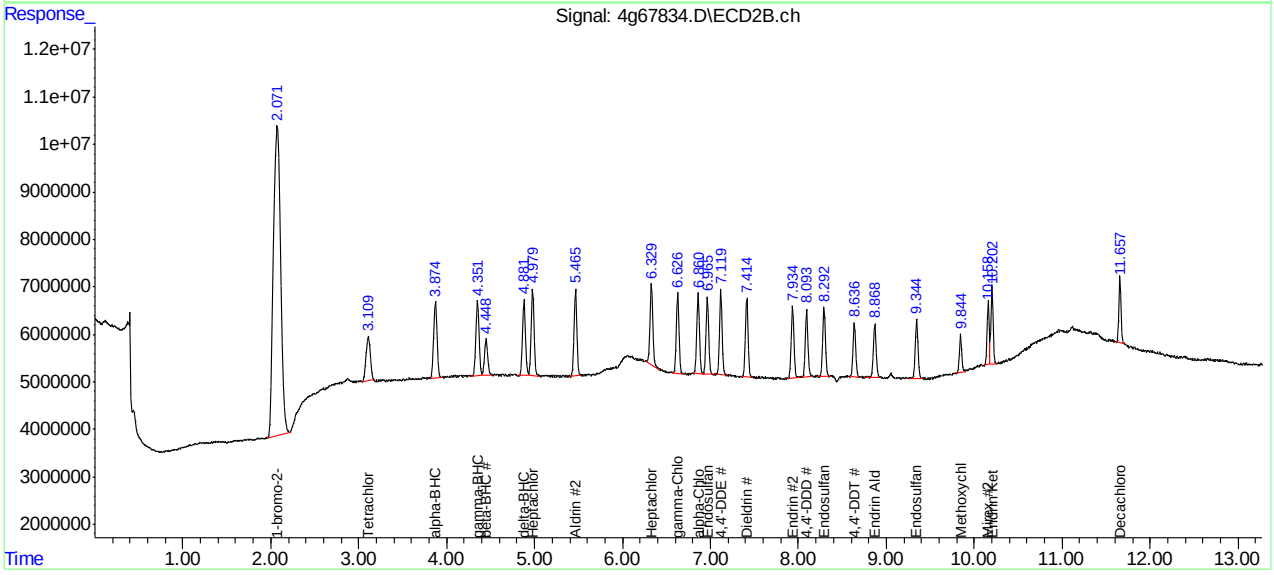
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67834.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 2:56 pm
Operator : dharas
Sample : ic1778-5
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:19:00 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





SGS ACCUTEST JC20098

Manual Integration Approval Summary

Sample Number:	G4G1778-IC1778	**Method:**	SW846 8081B
Lab FileID:	4G67834.D	**Analyst approved:**	05/03/16 15:16 Rebecca Krug
Injection Time:	05/02/16 14:56	**Supervisor approved:**	05/04/16 11:11 Gwendolyn Burns

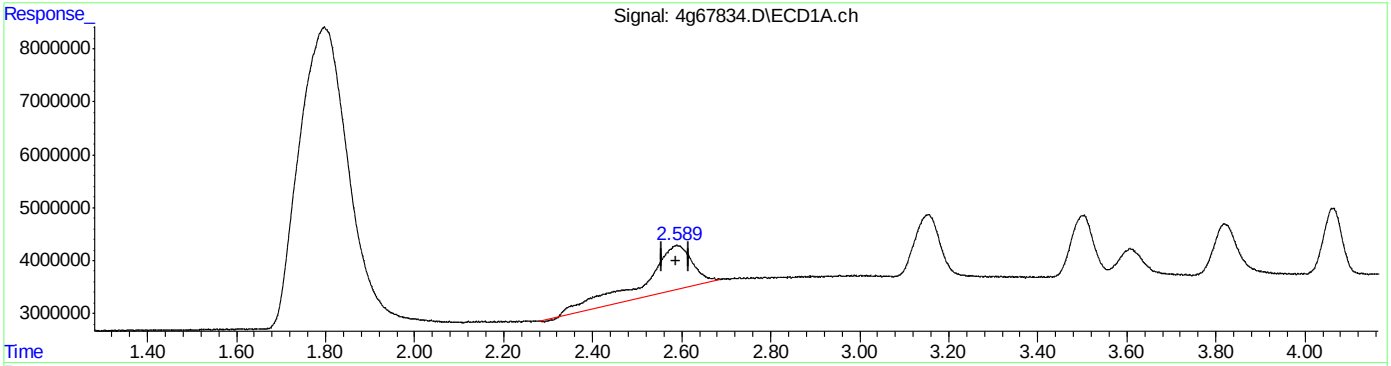
Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrachloro-m-xylene	877-09-8	1	2.59	Poorly defined baseline
alpha-Chlordane	5103-71-9	1	5.57	Poorly defined baseline

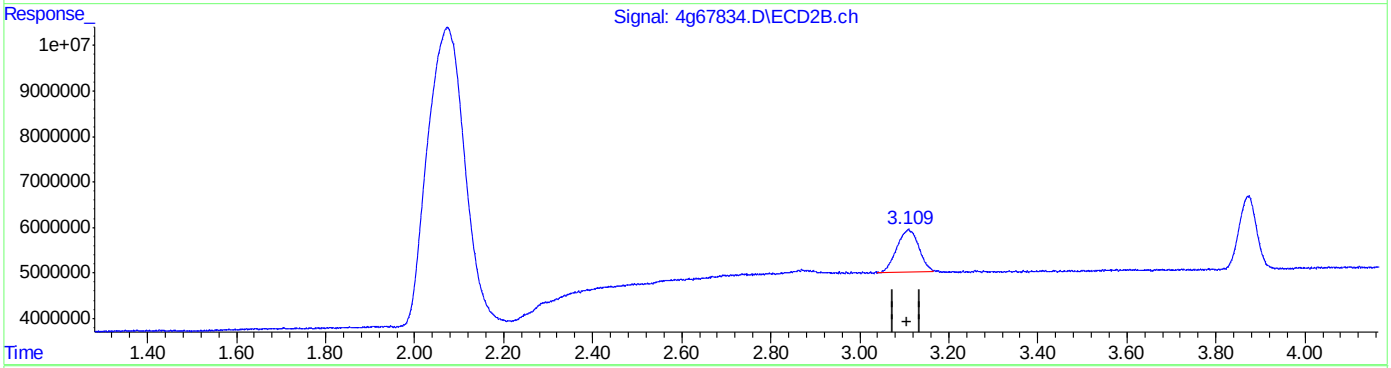
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67834.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 2:56 pm
Operator : dharas
Sample : ic1778-5
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 14:55:48 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(2) Tetrachloro-m-xylene (SAB)
2.589min 8.082 PPB
response 65701446

(2) Tetrachloro-m-xylene #2 (SAB)
3.110min 4.642 PPB
response 31510534

(+) = Expected Retention Time
4PST1778.M Tue May 03 14:55:54 2016 RPT1

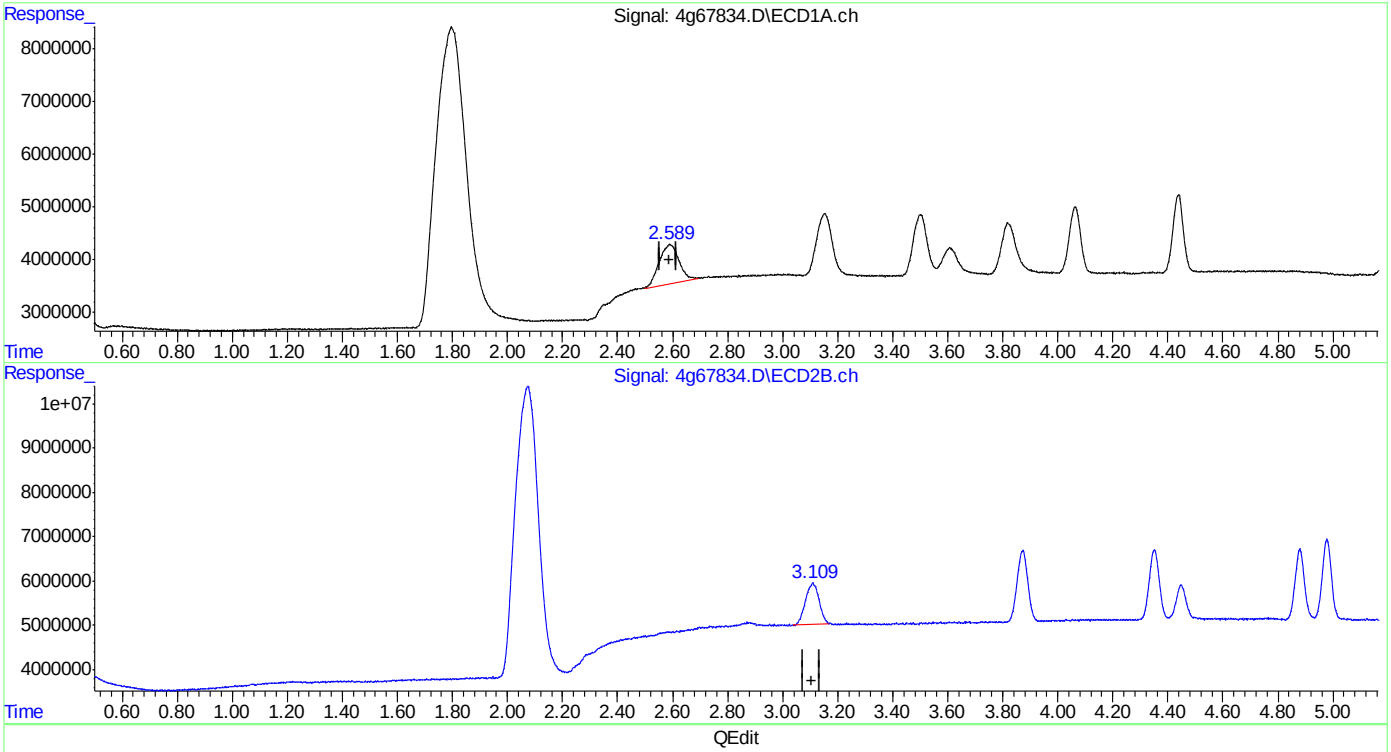
SGS ACCUTEST JC20098

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67834.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 2:56 pm
Operator : dharas
Sample : ic1778-5
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 14:55:48 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(2) Tetrachloro-m-xylene (SAB)
2.589min 4.566 PPB m
response 37120423

(2) Tetrachloro-m-xylene #2 (SAB)
3.110min 4.642 PPB
response 31510534

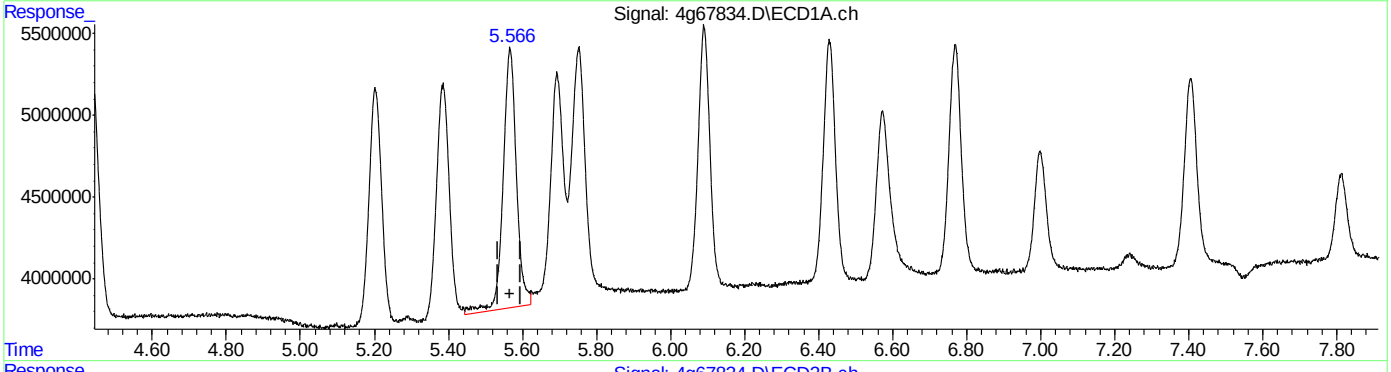
(+) = Expected Retention Time

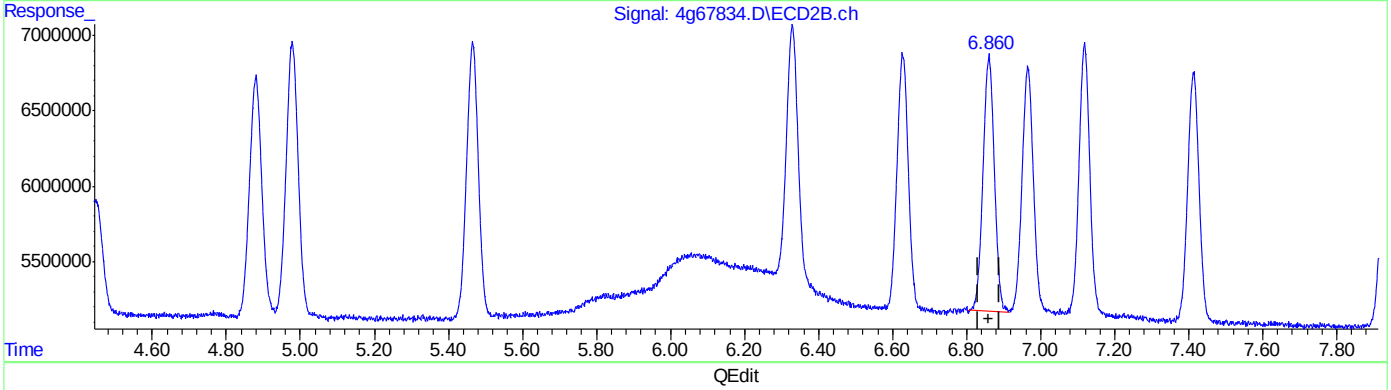
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67834.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 2:56 pm
Operator : dharas
Sample : ic1778-5
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 14:55:48 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(11) alpha-Chlordane (B)
5.566min 4.945 PPB
response 39336194

(11) alpha-Chlordane #2 (B)
6.860min 4.916 PPB
response 36218841

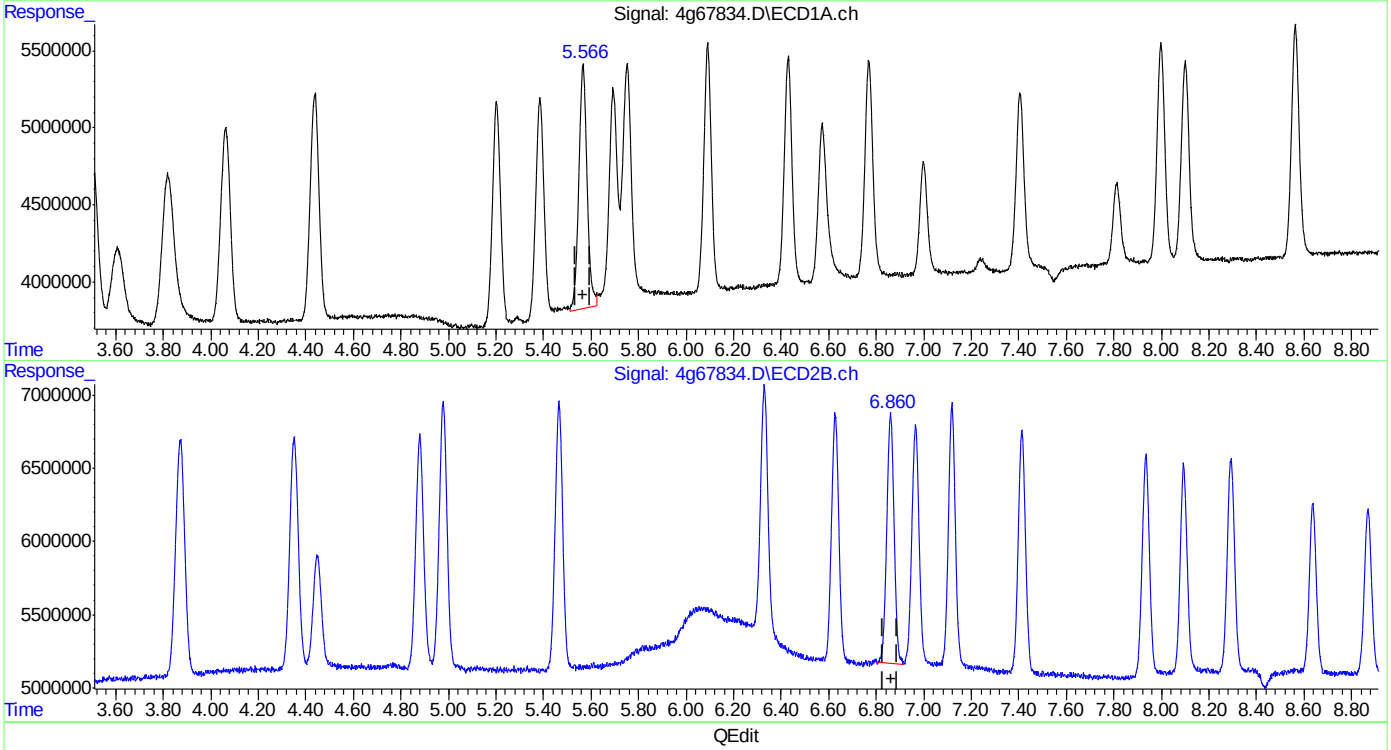
(+) = Expected Retention Time
4PST1778.M Tue May 03 14:56:19 2016 RPT1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67834.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 2:56 pm
Operator : dharas
Sample : ic1778-5
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 14:55:48 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



(11) alpha-Chlordane (B)
5.566min 4.799 PPB m
response 38177274

(11) alpha-Chlordane #2 (B)
6.860min 4.916 PPB
response 36218841

(+) = Expected Retention Time

SGS ACCUTEST JC20098

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 05/04/16 11:11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67835.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 3:11 pm
Operator : dharas
Sample : ic1778-10
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:19:13 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.786	2.065	411.1E6	356.4E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	2.586	3.105	69594232	62600360	9.072m	9.719
	Spiked Amount 40.000 Range 30 - 150 Recovery =					22.68%#	24.30%#
24) SA	Decachlor...	10.253	11.658	65389757	44644072	8.183m	7.809
	Spiked Amount 40.000 Recovery =					20.46%	19.52%
	Target Compounds						
3) A	alpha-BHC	3.150	3.870	89915281	85888233	9.386	9.999
4) MA	gamma-BHC	3.499	4.351	80147947	78252821	9.758	10.035
5) MA	Heptachlor	3.819	4.977	72318460	81192861	8.200	10.095
6) B	beta-BHC	3.607	4.447	39757995	36316888	10.040	10.198
7) B	delta-BHC	4.061	4.879	71938995	73286371	8.931	10.280
8) MB	Aldrin	4.436	5.464	76050120	77604763	8.869	9.955
9) B	Heptachlo...	5.204	6.329	67773826	71904390	9.067	10.057
10) B	gamma-Chl...	5.385	6.627	66349566	70400286	9.157	9.993
11) B	alpha-Chl...	5.566	6.859	70879047	70047048	9.442	10.020
12) A	Endosulfan I	5.752	6.965	73933198	67583347	9.053	10.078
13) B	4,4'-DDE	5.694	7.118	62035845	70477191	10.419	10.582
14) MA	Dieldrin	6.091	7.413	70073829	69640743	9.244	10.006
15) MA	Endrin	6.430	7.934	66080818	63398145	9.358	10.122
16) A	4,4'-DDD	6.573	8.094	53993241	56062249	9.661	9.974
17) B	Endosulfa...	6.768	8.292	64484515	62683056	9.377	10.038
18) MA	4,4'-DDT	6.998	8.637	36008378	48486712	8.137	10.084
19) B	Endrin Al...	7.405	8.869	54665173	47318705	9.418	9.451
20) B	Endosulfa...	8.100	9.346	60063043	52034402	10.163	10.069
21) A	Methoxychlor	7.811	9.845	25471597	27319112	8.402	10.027
22)	Mirex	7.998	10.160	63168824	44456767	10.017	9.418
23) B	Endrin Ke...	8.564	10.204	69012051	56428001	10.059	10.176

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

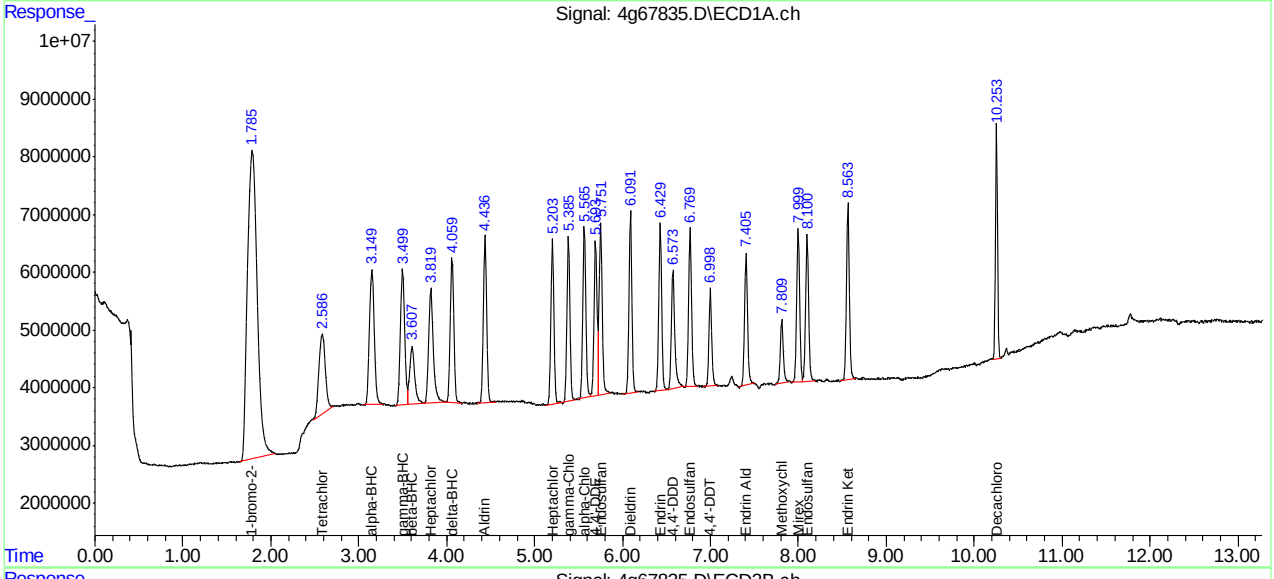
11.6.4 11

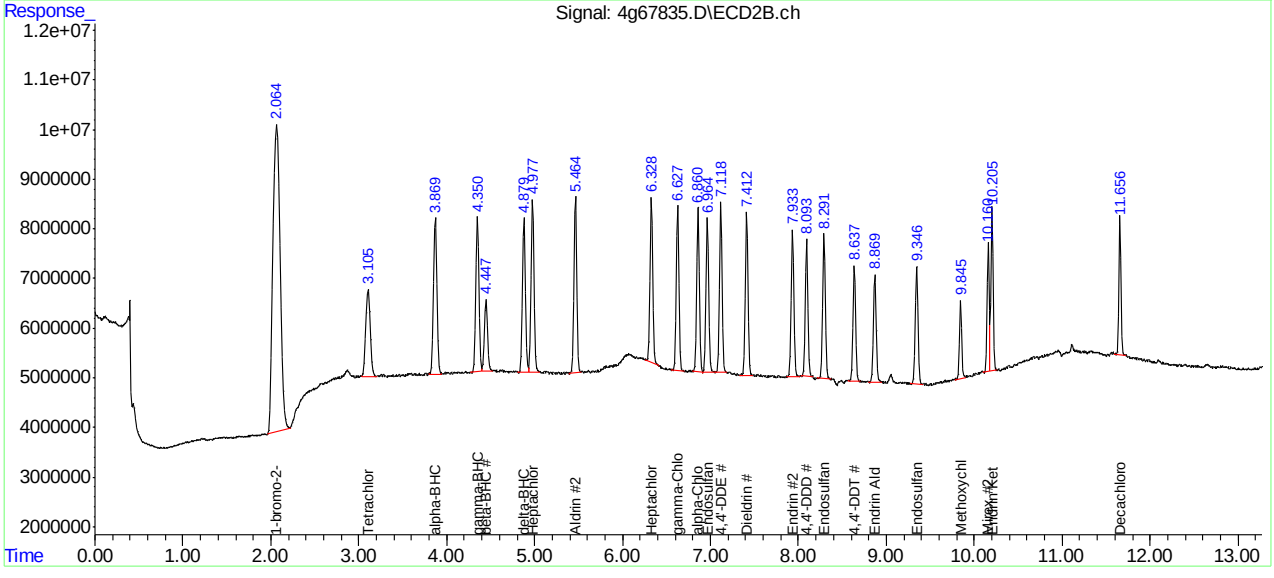
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67835.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 3:11 pm
Operator : dharas
Sample : ic1778-10
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:19:13 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





Manual Integration Approval Summary

Sample Number:	G4G1778-IC1778	**Method:**	SW846 8081B
Lab FileID:	4G67835.D	**Analyst approved:**	05/03/16 15:16 Rebecca Krug
Injection Time:	05/02/16 15:11	**Supervisor approved:**	05/04/16 11:11 Gwendolyn Burns

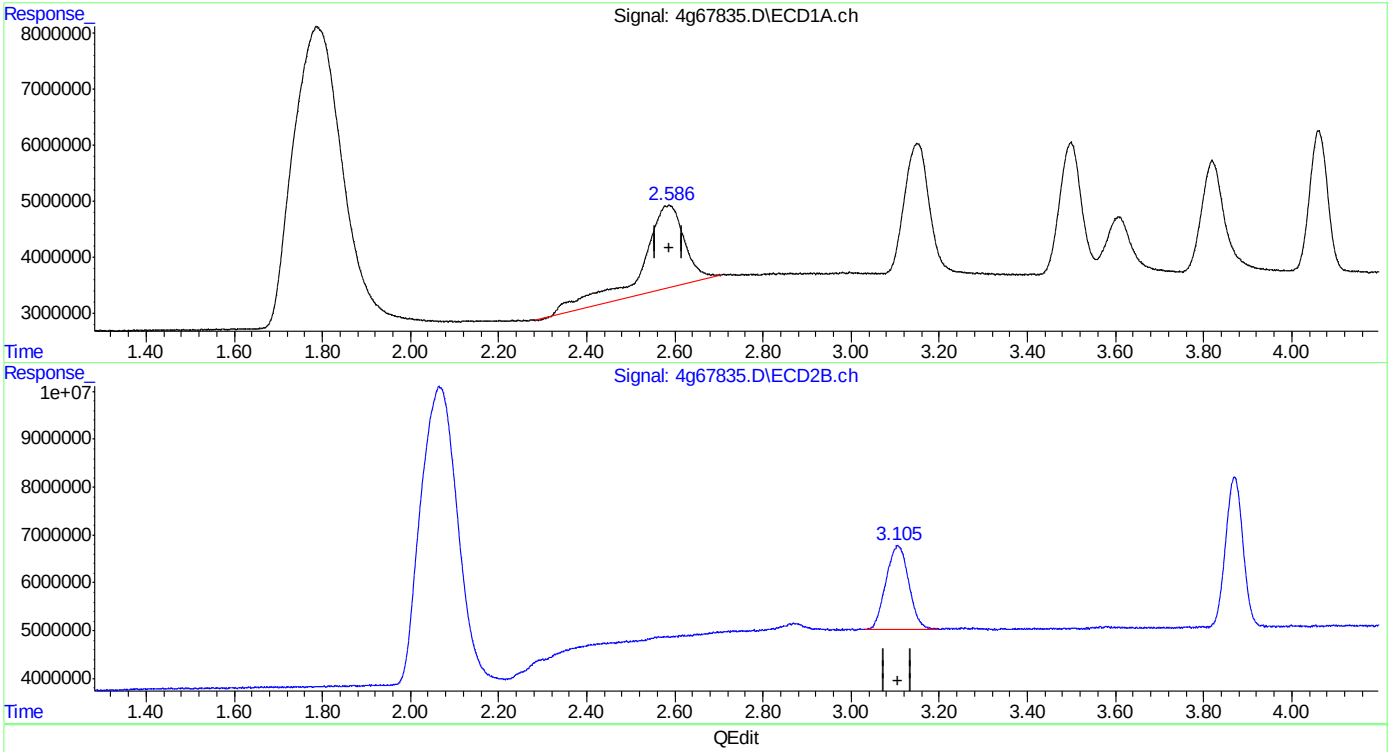
Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrachloro-m-xylene	877-09-8	1	2.59	Poorly defined baseline
Decachlorobiphenyl	2051-24-3	1	10.25	Poorly defined baseline

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67835.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 3:11 pm
Operator : dharas
Sample : ic1778-10
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 14:54:22 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(2) Tetrachloro-m-xylene (SAB)
2.587min 13.216 PPB
response 101384592

(2) Tetrachloro-m-xylene #2 (SAB)
3.105min 9.719 PPB
response 62600360

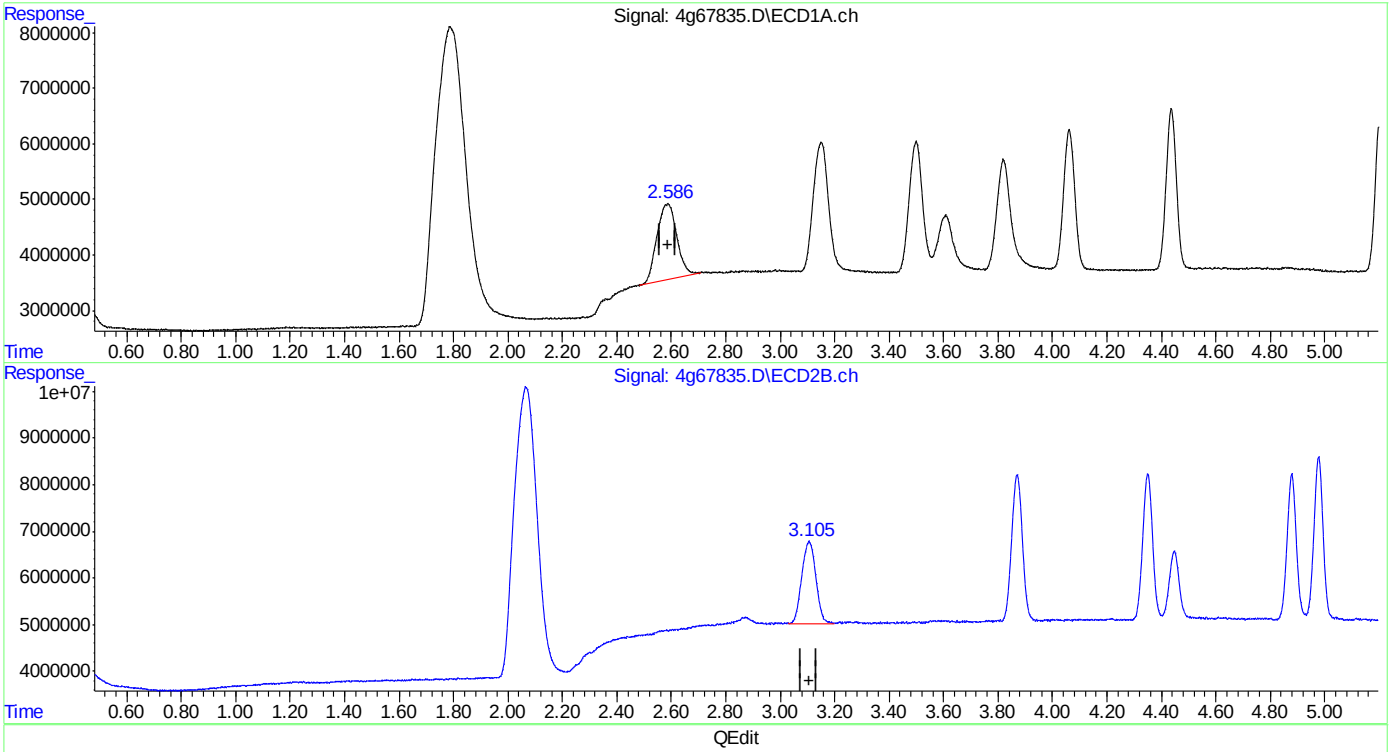
(+) = Expected Retention Time
4PST1778.M Tue May 03 14:54:27 2016 RPT1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67835.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 3:11 pm
Operator : dharas
Sample : ic1778-10
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 14:54:22 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



(2) Tetrachloro-m-xylene (SAB)
2.586min 9.072 PPB m
response 69594232

(2) Tetrachloro-m-xylene #2 (SAB)
3.105min 9.719 PPB
response 62600360

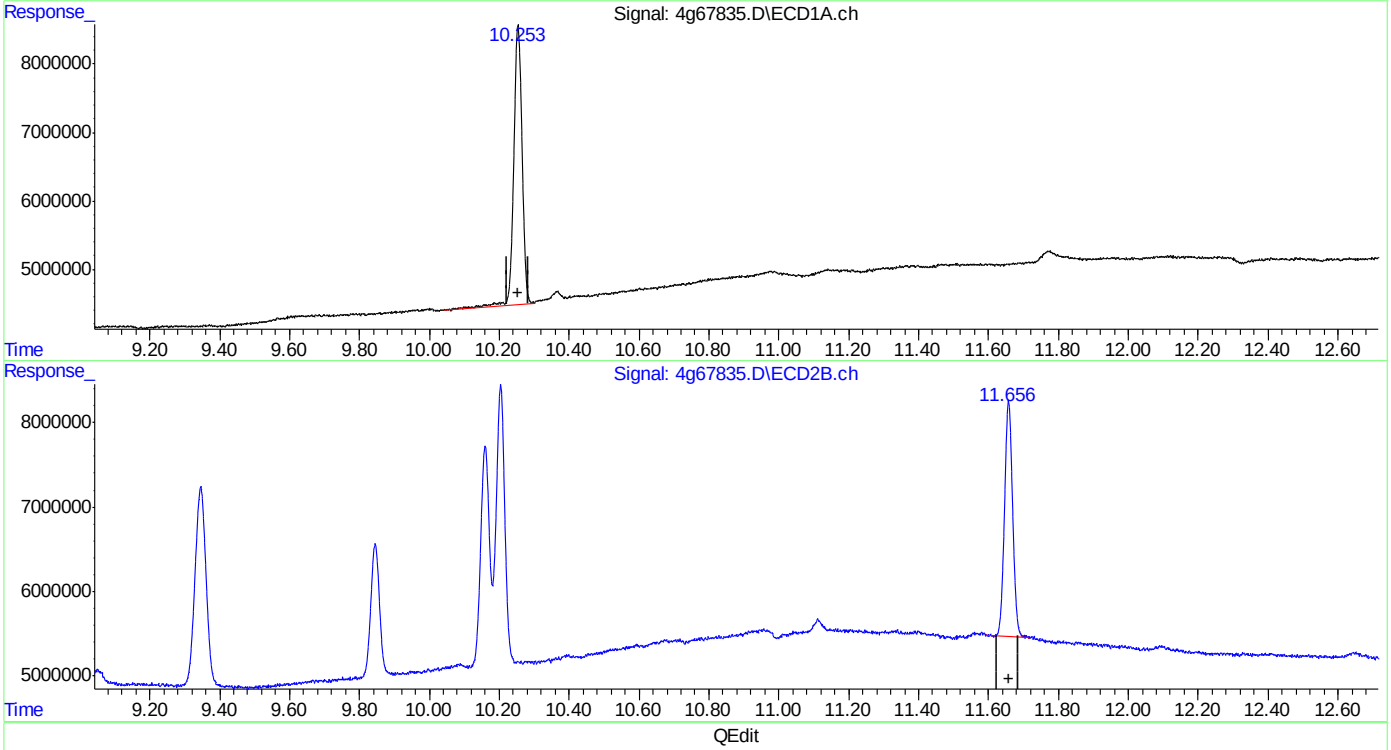
(+) = Expected Retention Time
4PST1778.M Tue May 03 14:54:33 2016 RPT1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67835.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 3:11 pm
Operator : dharas
Sample : ic1778-10
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 14:54:22 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



(24) Decachlorobiphenyl (SA)
10.254min 8.450 PPB
response 67519126

(24) Decachlorobiphenyl #2 (SA)
11.658min 7.809 PPB
response 44644072

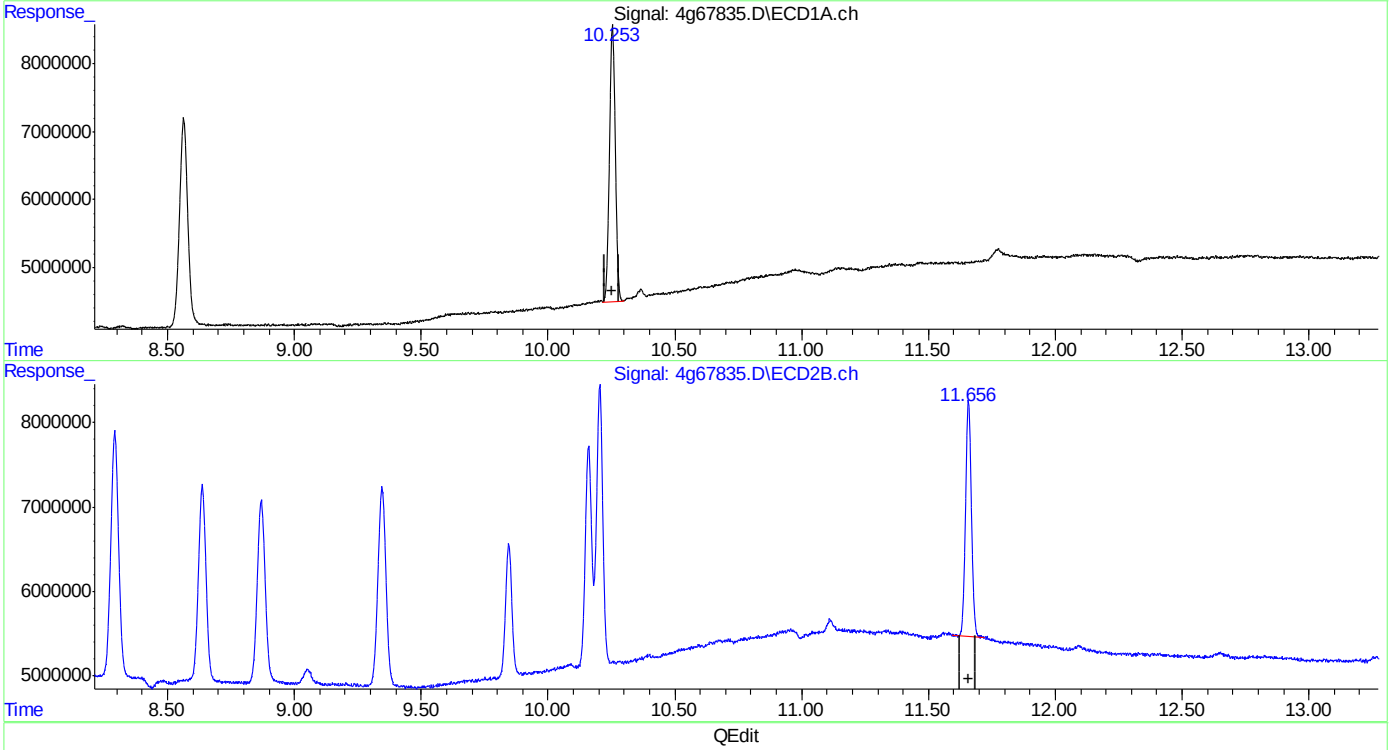
(+) = Expected Retention Time
4PST1778.M Tue May 03 14:54:53 2016 RPT1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67835.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 3:11 pm
Operator : dharas
Sample : ic1778-10
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 14:54:22 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



(24) Decachlorobiphenyl (SA)
10.253min 8.183 PPB m
response 65389757

(24) Decachlorobiphenyl #2 (SA)
11.658min 7.809 PPB
response 44644072

(+) = Expected Retention Time
4PST1778.M Tue May 03 14:54:58 2016 RPT1

SGS ACCUTEST JC20098

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 05/04/16 11:11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67836.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 3:26 pm
Operator : dharas
Sample : icc1778-25
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:19:26 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.797	2.073	431.7E6	375.9E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	2.592	3.108	186.1E6	165.7E6	23.099m	24.393
	Spiked Amount 40.000 Range 30 - 150 Recovery = 57.75% 60.98%						
24) SA	Decachlor...	10.253	11.656	174.3E6	115.1E6	20.768m	19.090
	Spiked Amount 40.000 Recovery = 51.92% 47.73%						
	Target Compounds						
3) A	alpha-BHC	3.154	3.873	249.7E6	237.0E6	24.827	26.162
4) MA	gamma-BHC	3.501	4.352	220.5E6	211.8E6	25.572	25.754
5) MA	Heptachlor	3.820	4.979	202.4E6	217.3E6	21.860	25.620
6) B	beta-BHC	3.606	4.448	104.7E6	95390450	25.175	25.395
7) B	delta-BHC	4.064	4.880	195.1E6	200.5E6	23.071	26.669
8) MB	Aldrin	4.439	5.466	209.7E6	209.2E6	23.287	25.448
9) B	Heptachlo...	5.203	6.330	185.5E6	190.2E6	23.638	25.224
10) B	gamma-Chl...	5.386	6.628	188.5E6	187.8E6	24.772	25.269
11) B	alpha-Chl...	5.567	6.861	193.7E6	183.7E6	24.568	24.917
12) A	Endosulfan I	5.753	6.966	202.9E6	178.0E6	23.666	25.164
13) B	4,4'-DDE	5.694	7.119	175.1E6	188.4E6	28.001	26.822
14) MA	Dieldrin	6.091	7.413	199.3E6	189.4E6	25.037	25.797
15) MA	Endrin	6.430	7.935	183.3E6	167.9E6	24.726	25.411
16) A	4,4'-DDD	6.571	8.093	157.3E6	151.9E6	26.802	25.623
17) B	Endosulfa...	6.769	8.292	183.5E6	165.5E6	25.415	25.120
18) MA	4,4'-DDT	6.998	8.637	112.2E6	134.0E6	21.697	26.428
19) B	Endrin Al...	7.405	8.869	151.5E6	126.0E6	24.863	23.863
20) B	Endosulfa...	8.099	9.346	164.7E6	136.9E6	26.535	25.108
21) A	Methoxychlor	7.809	9.845	72837603	71070940	22.880	24.731
22)	Mirex	7.997	10.160	165.5E6	112.4E6	24.989	22.570
23) B	Endrin Ke...	8.563	10.203	195.2E6	151.5E6	27.097	25.906

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

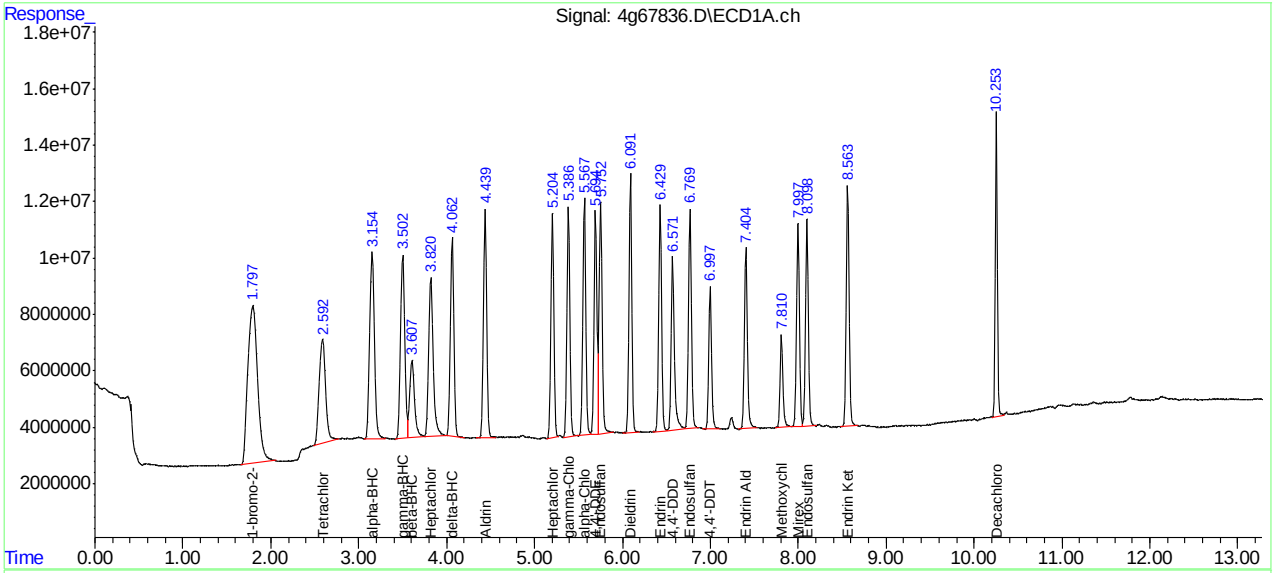
11.6.5 11

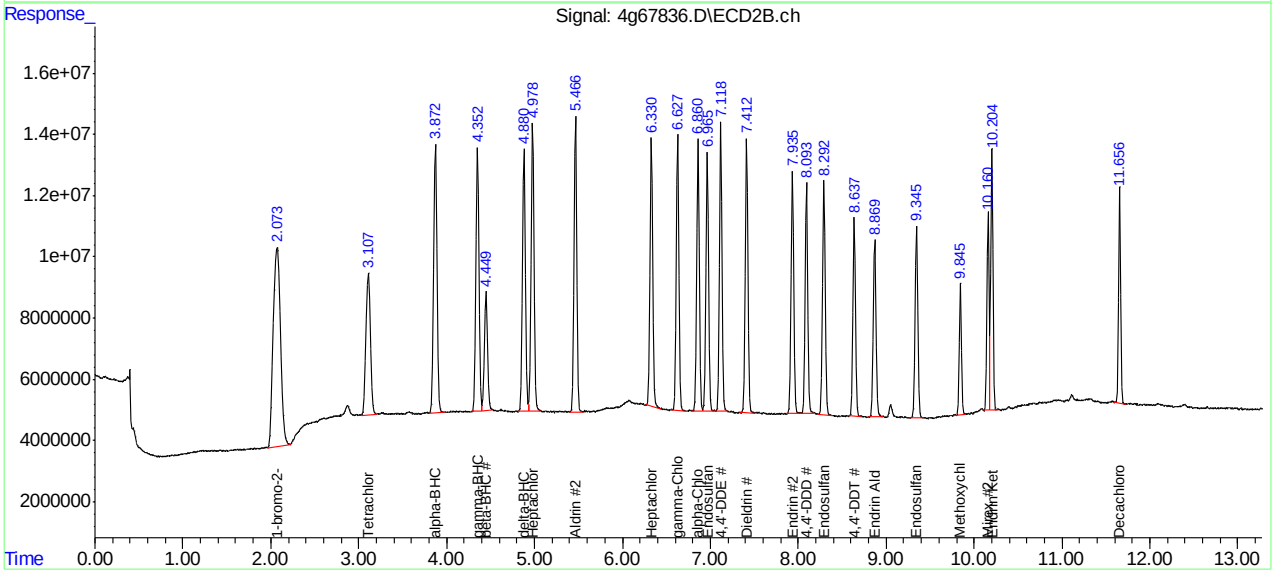
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67836.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 3:26 pm
Operator : dharas
Sample : icc1778-25
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:19:26 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





Manual Integration Approval Summary

Sample Number:	G4G1778-ICC1778	**Method:**	SW846 8081B
Lab FileID:	4G67836.D	**Analyst approved:**	05/03/16 15:16 Rebecca Krug
Injection Time:	05/02/16 15:26	**Supervisor approved:**	05/04/16 11:11 Gwendolyn Burns

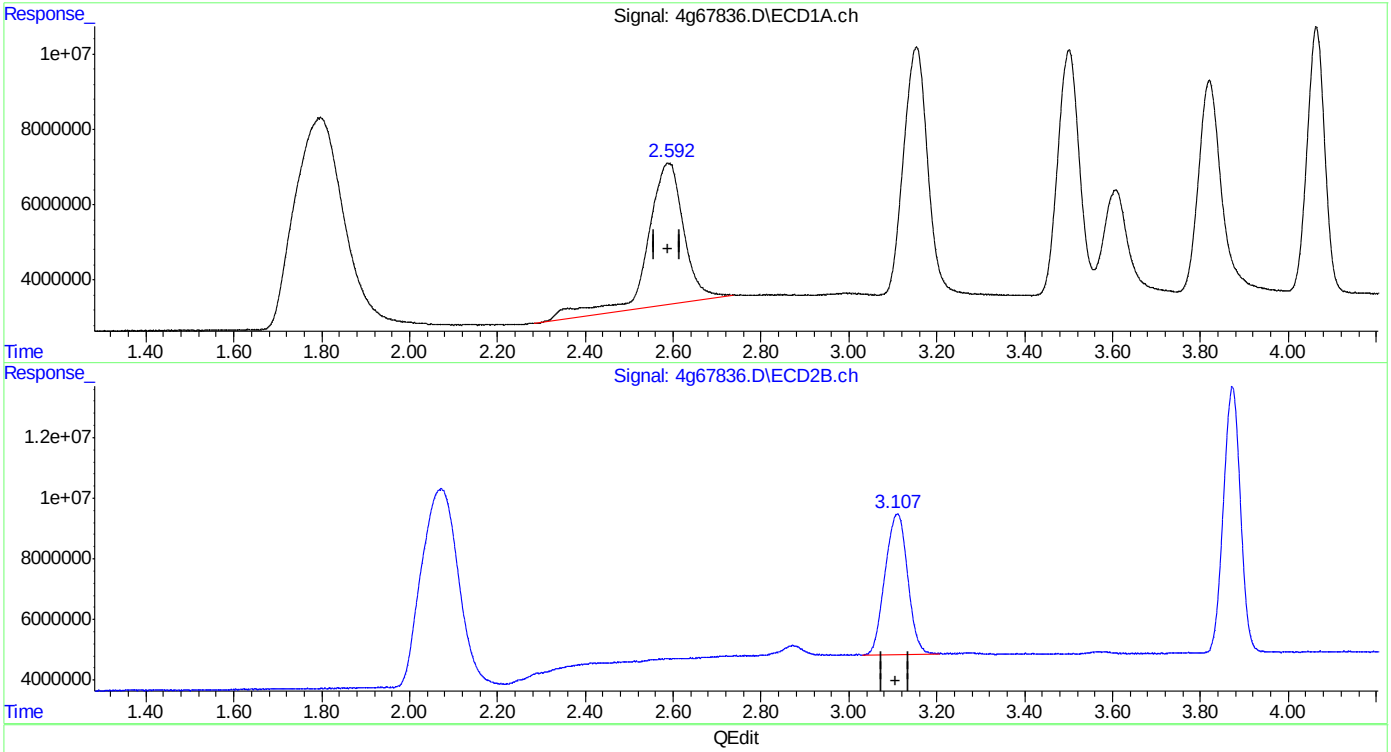
Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrachloro-m-xylene	877-09-8	1	2.59	Poorly defined baseline
Decachlorobiphenyl	2051-24-3	1	10.25	Poorly defined baseline

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67836.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 3:26 pm
Operator : dharas
Sample : icc1778-25
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 14:53:17 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



(2) Tetrachloro-m-xylene (SAB)
2.588min 27.139 PPB
response 218617775

(2) Tetrachloro-m-xylene #2 (SAB)
3.108min 24.393 PPB
response 165722496

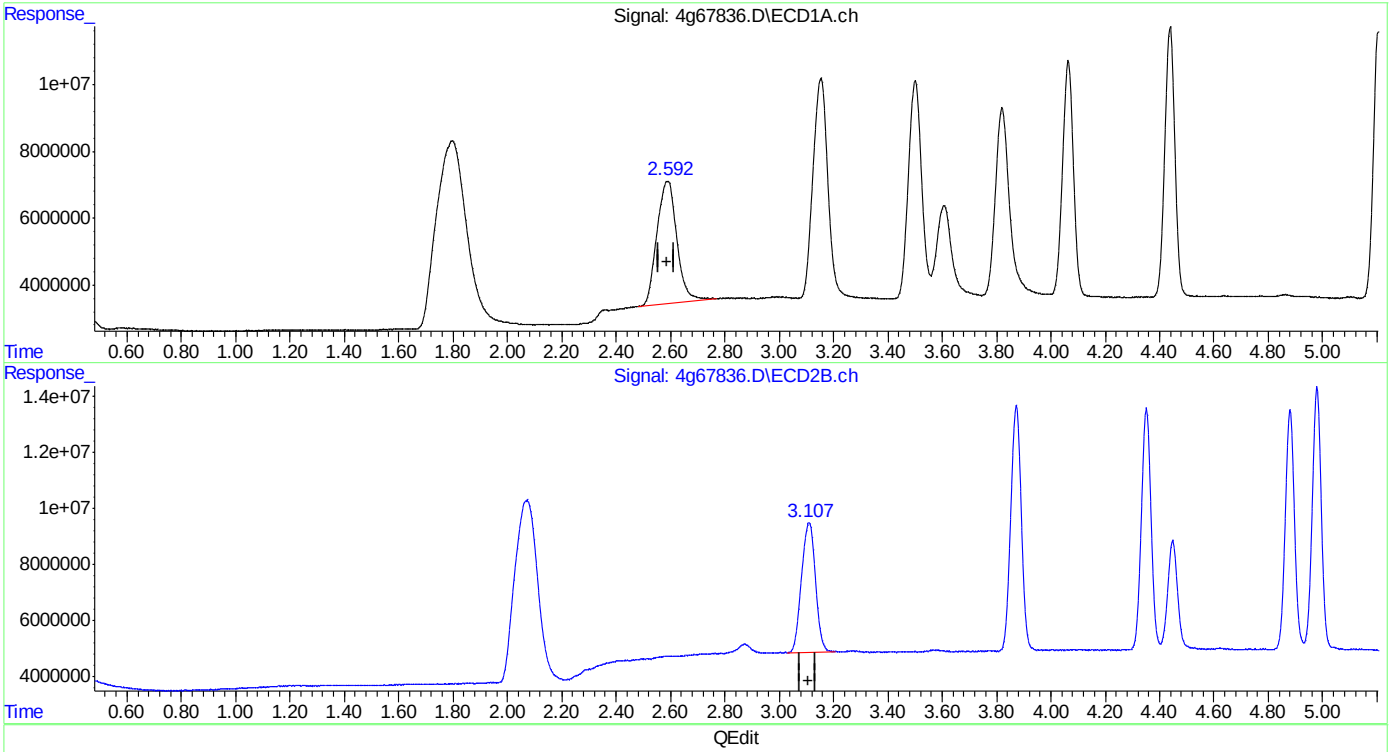
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67836.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 3:26 pm
Operator : dharas
Sample : icc1778-25
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 14:53:17 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(2) Tetrachloro-m-xylene (SAB)
2.592min 23.099 PPB m
response 186077076

(2) Tetrachloro-m-xylene #2 (SAB)
3.108min 24.393 PPB
response 165722496

(+) = Expected Retention Time
4PST1778.M Tue May 03 14:53:30 2016 RPT1

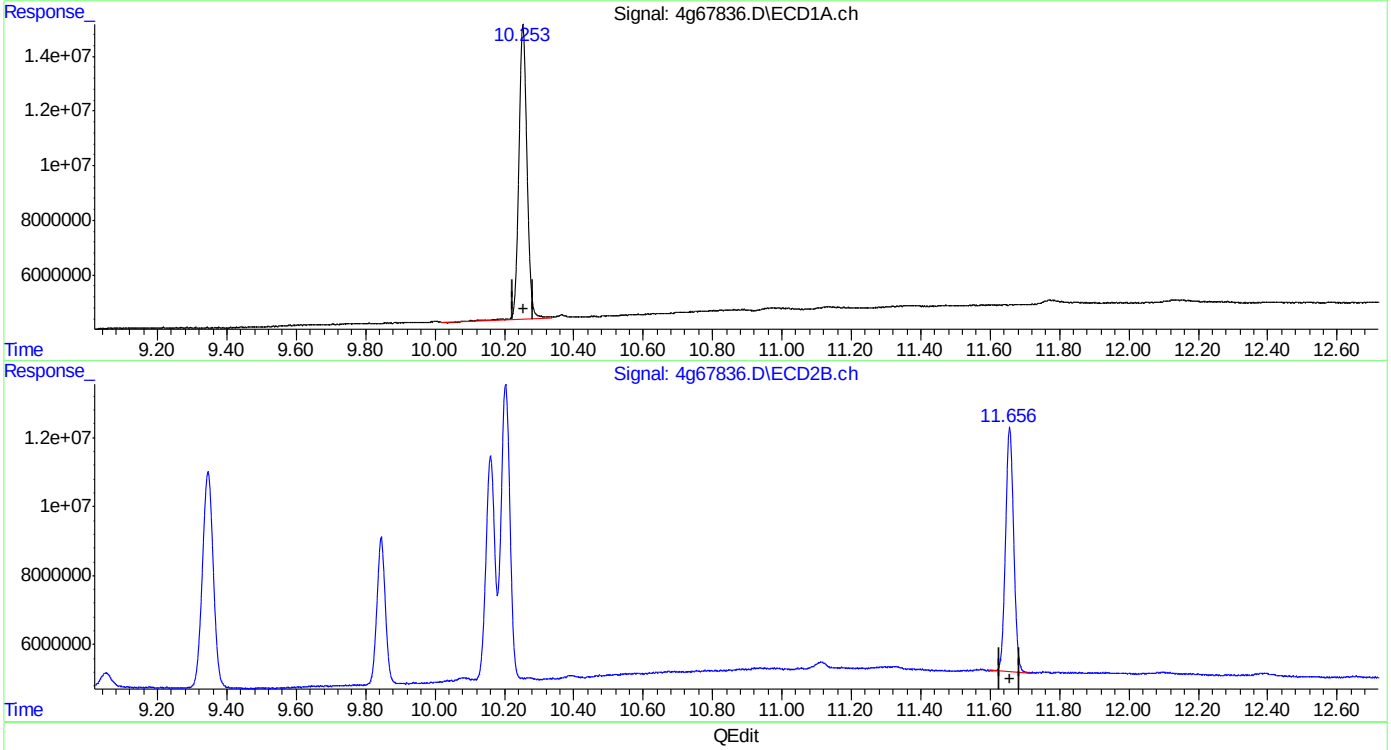
SGS ACCUTEST JC20098

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67836.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 3:26 pm
Operator : dharas
Sample : icc1778-25
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 14:53:17 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(24) Decachlorobiphenyl (SA)
10.253min 20.863 PPB
response 175049871

(24) Decachlorobiphenyl #2 (SA)
11.656min 19.090 PPB
response 115123212

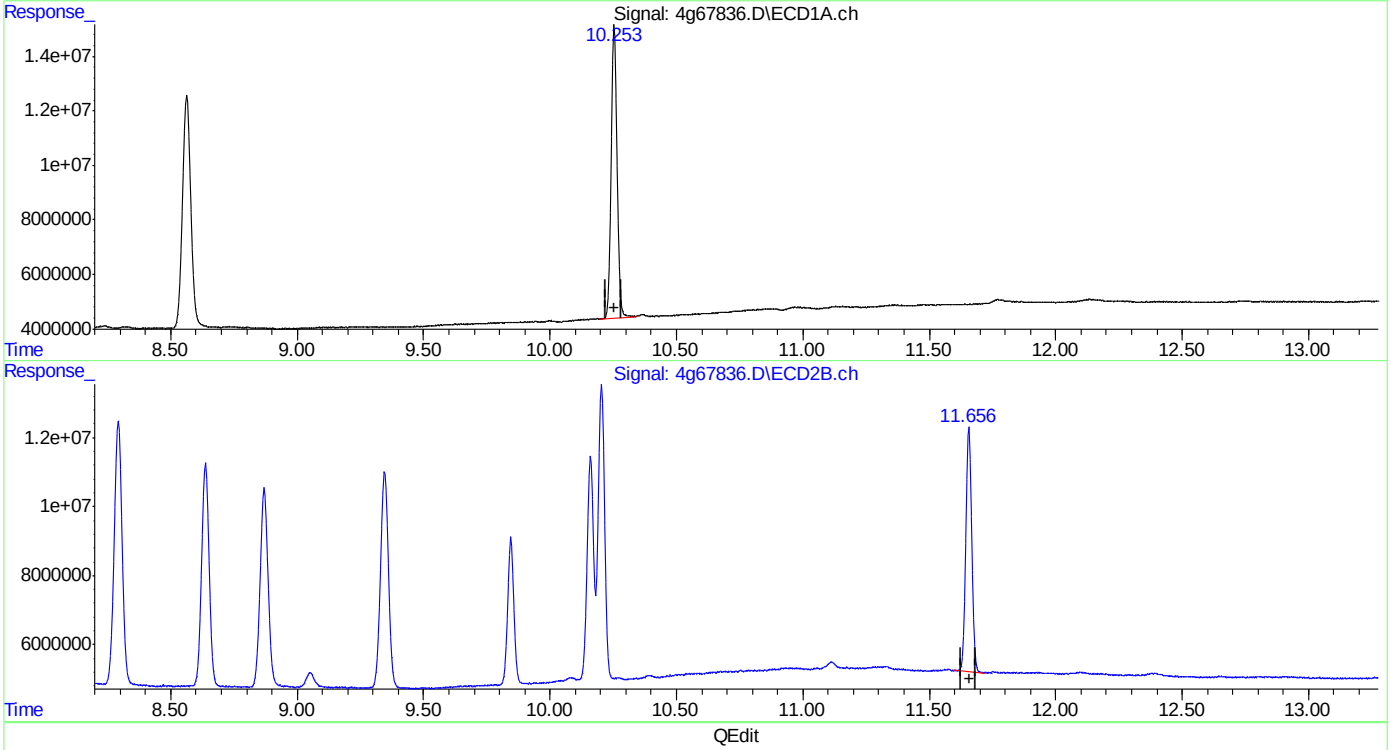
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67836.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 3:26 pm
Operator : dharas
Sample : icc1778-25
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 14:53:17 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(24) Decachlorobiphenyl (SA)
10.253min 20.768 PPB m
response 174257754

(24) Decachlorobiphenyl #2 (SA)
11.656min 19.090 PPB
response 115123212

(+) = Expected Retention Time
4PST1778.M Tue May 03 14:53:55 2016 RPT1

SGS ACCUTEST JC20098

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 05/04/16 11:11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67837.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 3:41 pm
Operator : dharas
Sample : ic1778-50
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:19:39 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.791	2.069	419.5E6	370.7E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	2.587	3.108	360.1E6	324.0E6	46.003	48.360
	Spiked Amount 40.000 Range 30 - 150 Recovery = 115.01% 120.90%						
24) SA	Decachlor...	10.255	11.658	335.2E6	223.6E6	41.113	37.600
	Spiked Amount 40.000 Recovery = 102.78% 94.00%						
	Target Compounds						
3) A	alpha-BHC	3.153	3.872	515.9E6	484.4E6	52.777	54.214
4) MA	gamma-BHC	3.500	4.351	455.6E6	432.9E6	54.355	53.362
5) MA	Heptachlor	3.817	4.979	444.5E6	435.4E6	49.387	52.041
6) B	beta-BHC	3.603	4.447	219.6E6	190.4E6	54.352	51.402
7) B	delta-BHC	4.064	4.880	414.3E6	409.6E6	50.407	55.235
8) MB	Aldrin	4.438	5.466	433.3E6	420.7E6	49.515	51.882
9) B	Heptachlo...	5.204	6.329	390.4E6	378.7E6	51.183	50.915
10) B	gamma-Chl...	5.386	6.628	395.0E6	378.2E6	53.418	51.602
11) B	alpha-Chl...	5.568	6.861	399.2E6	364.6E6	52.114	50.133
12) A	Endosulfan I	5.752	6.966	416.3E6	356.3E6	49.954	51.077
13) B	4,4'-DDE	5.693	7.119	371.7E6	380.9E6	61.172	54.983
14) MA	Dieldrin	6.092	7.414	421.3E6	384.5E6	54.464	53.107
15) MA	Endrin	6.431	7.934	387.4E6	340.5E6	53.756	52.253
16) A	4,4'-DDD	6.570	8.094	331.2E6	308.2E6	58.075	52.708
17) B	Endosulfa...	6.769	8.293	381.6E6	332.8E6	54.383	51.235
18) MA	4,4'-DDT	6.998	8.638	254.1E6	277.5E6	45.953	55.478
19) B	Endrin Al...	7.404	8.871	316.8E6	249.5E6	53.489m	47.903
20) B	Endosulfa...	8.101	9.346	340.5E6	271.4E6	56.456	50.486
21) A	Methoxychlor	7.809	9.846	155.0E6	140.6E6	50.111m	49.602
22)	Mirex	7.999	10.161	327.7E6	221.7E6	50.921	45.152
23) B	Endrin Ke...	8.563	10.205	406.4E6	307.8E6	58.042	53.351

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

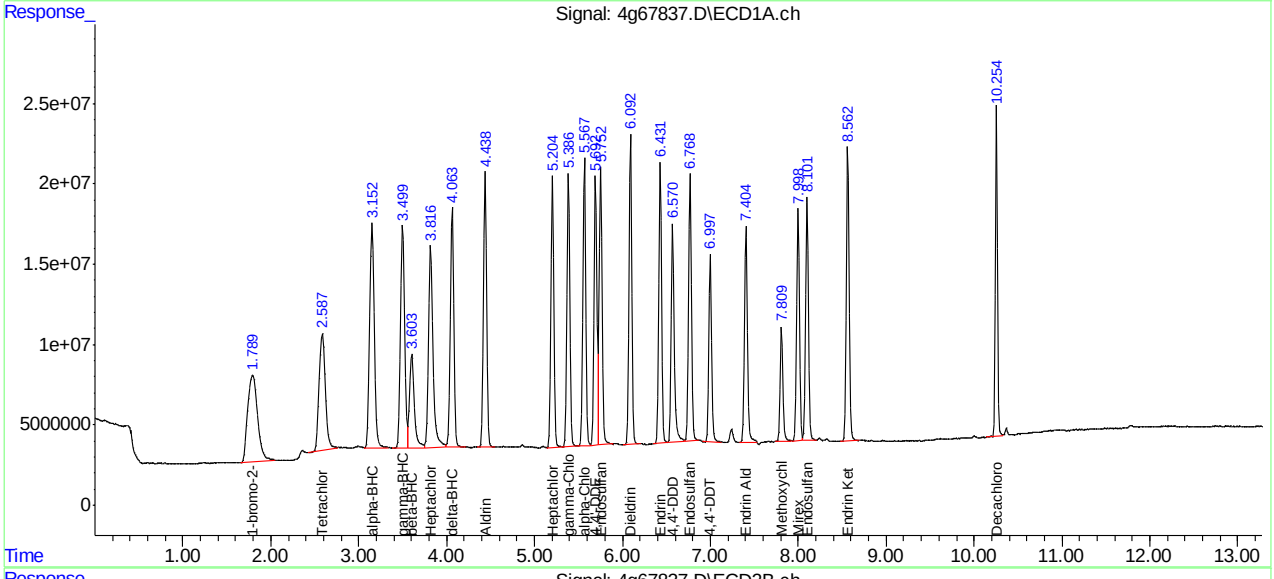
11.6.6 11

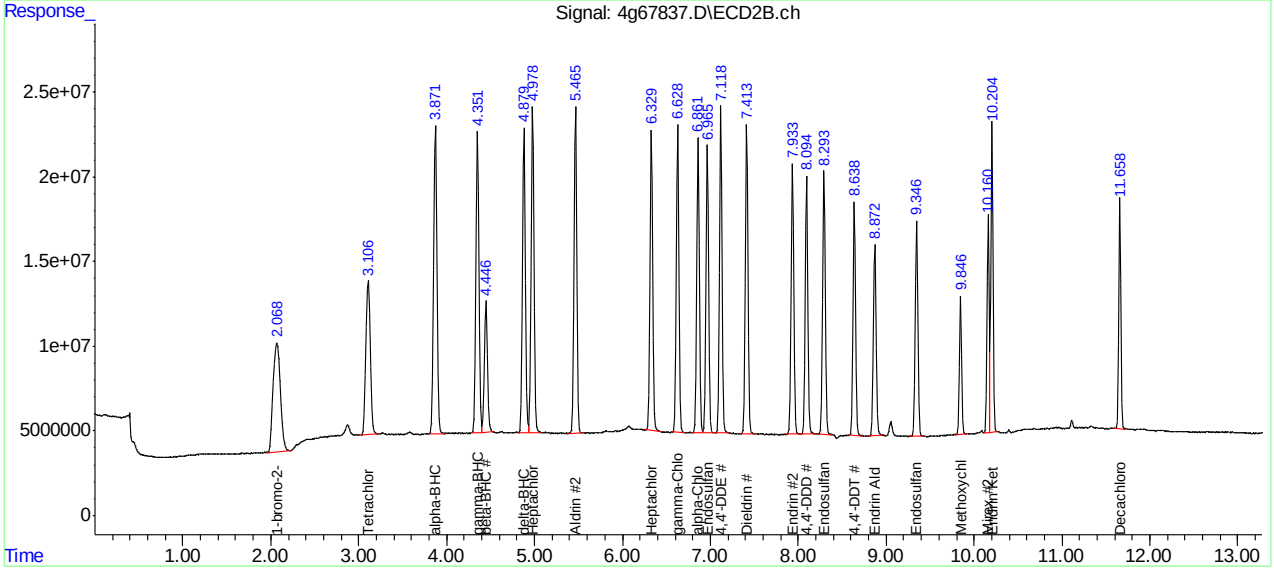
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67837.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 3:41 pm
Operator : dharas
Sample : ic1778-50
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:19:39 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





11.6.6 11

Manual Integration Approval Summary

Sample Number:	G4G1778-IC1778	**Method:**	SW846 8081B
Lab FileID:	4G67837.D	**Analyst approved:**	05/03/16 15:16 Rebecca Krug
Injection Time:	05/02/16 15:41	**Supervisor approved:**	05/04/16 11:11 Gwendolyn Burns

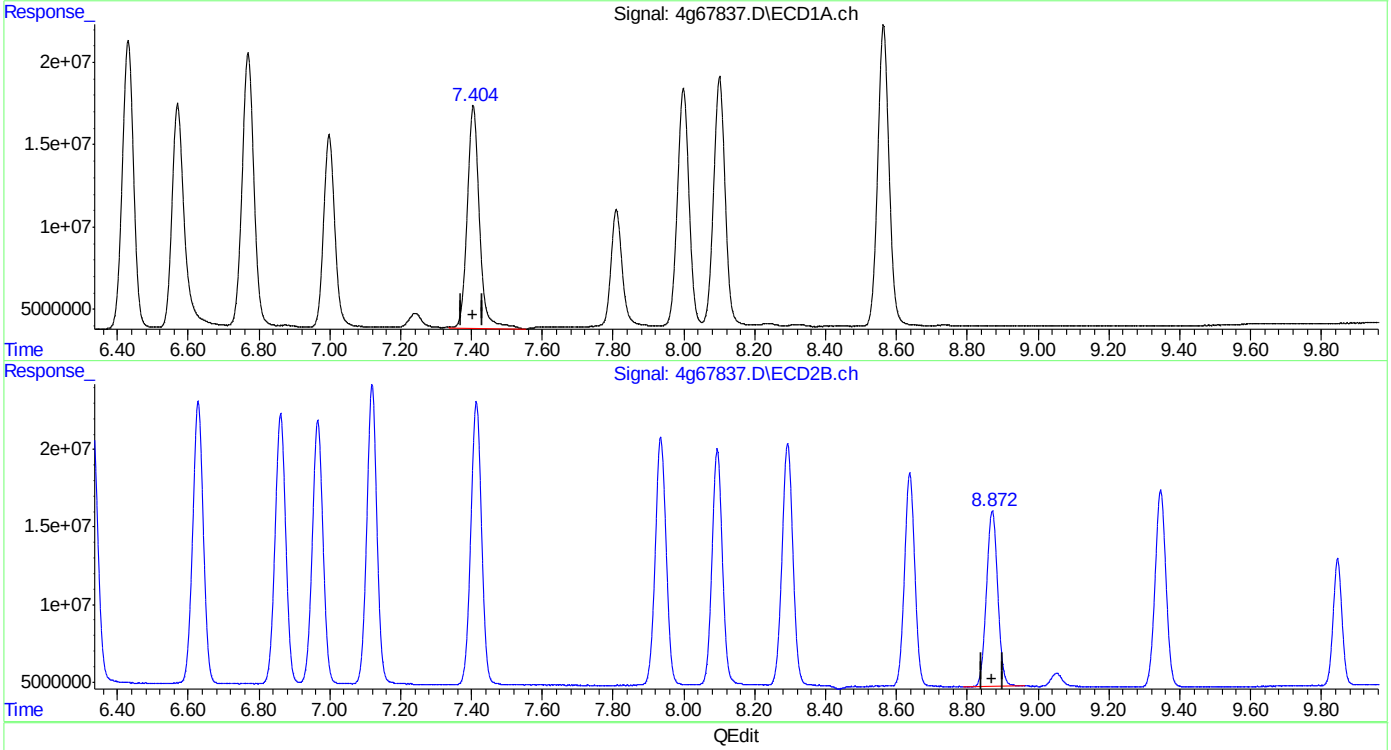
Parameter	CAS	Sig#	R.T. (min.)	Reason
Endrin aldehyde	7421-93-4	1	7.40	Poorly defined baseline
Methoxychlor	72-43-5	1	7.81	Poorly defined baseline

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67837.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 3:41 pm
Operator : dharas
Sample : ic1778-50
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 14:43:15 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(19) Endrin Aldehyde (B)
7.405min 54.582 PPB
response 323282330

(19) Endrin Aldehyde #2 (B)
8.871min 47.903 PPB
response 249500342

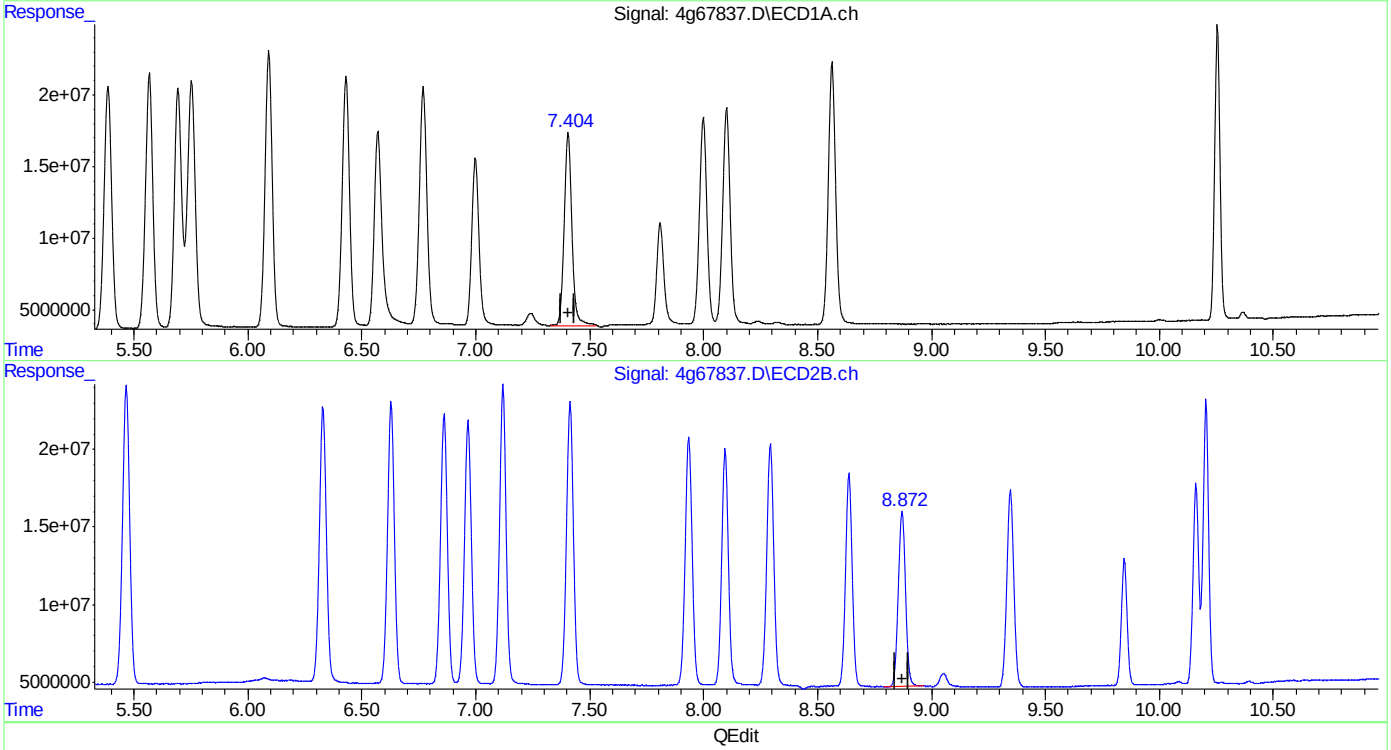
(+) = Expected Retention Time
4PST1778.M Tue May 03 14:43:33 2016 RPT1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67837.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 3:41 pm
Operator : dharas
Sample : ic1778-50
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 14:43:15 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(19) Endrin Aldehyde (B)
7.404min 53.489 PPB m
response 316808768

(19) Endrin Aldehyde #2 (B)
8.871min 47.903 PPB
response 249500342

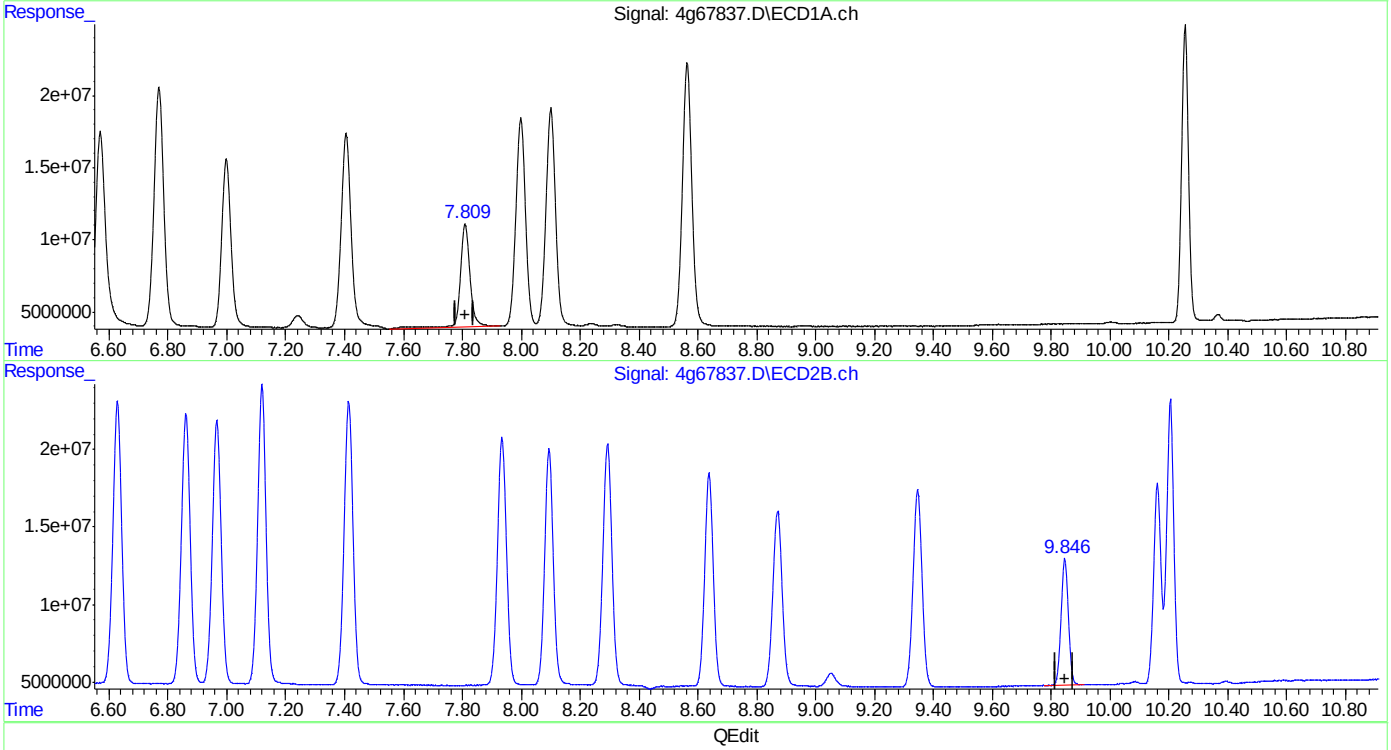
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67837.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 3:41 pm
Operator : dharas
Sample : ic1778-50
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 14:43:15 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(21) Methoxychlor (A)
7.809min 54.026 PPB
response 167139311

(21) Methoxychlor #2 (A)
9.846min 49.602 PPB
response 140581662

(+) = Expected Retention Time

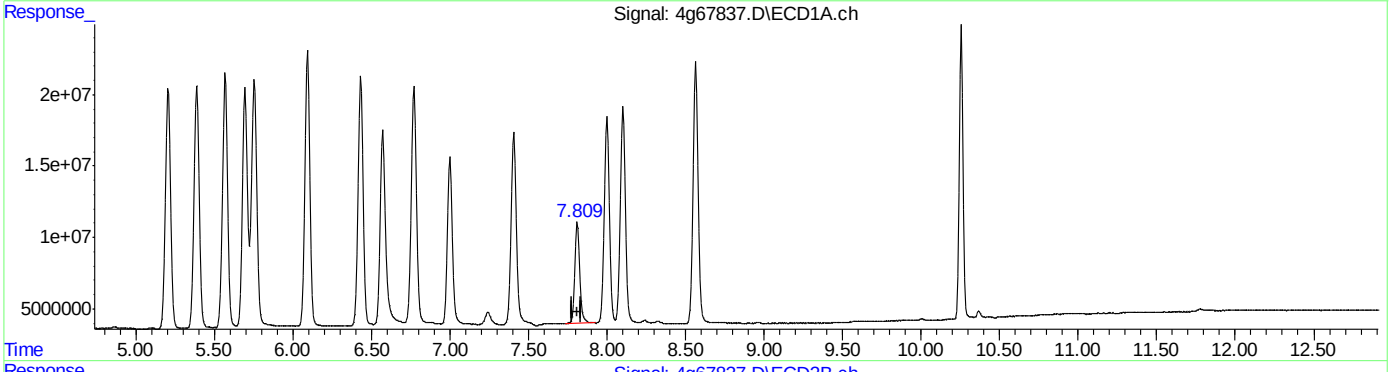
SGS ACCUTEST JC20098

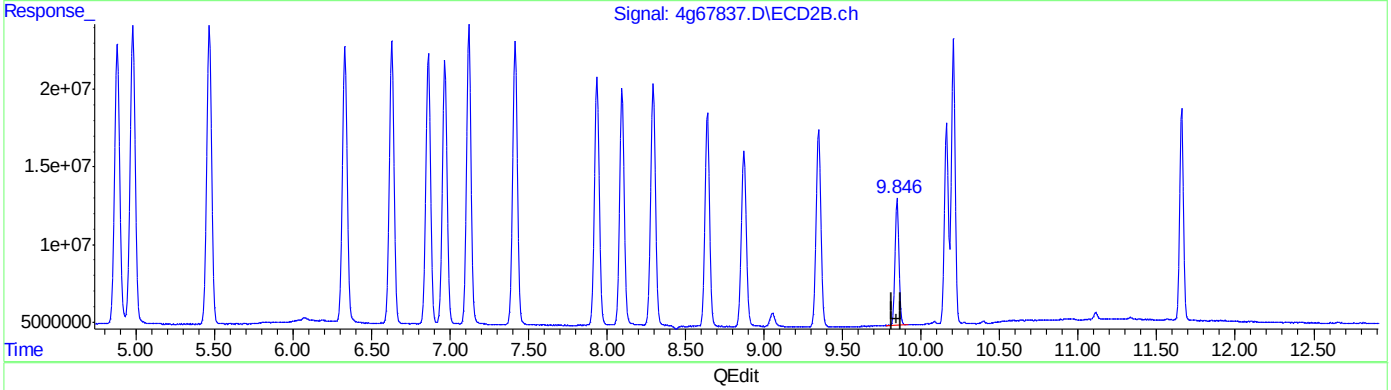
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67837.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 3:41 pm
Operator : dharas
Sample : ic1778-50
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 14:43:15 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(21) Methoxychlor (A)
7.809min 50.111 PPB m
response 155027769

(21) Methoxychlor #2 (A)
9.846min 49.602 PPB
response 140581662

(+) = Expected Retention Time
4PST1778.M Tue May 03 14:43:51 2016 RPT1

4G67838.D

Manual Integrations APPROVED (compounds with "m" flag)

Gwendolyn Burns 05/04/16 11:11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67838.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 3:57 pm
Operator : dharas
Sample : ic1778-75
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:19:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.793	2.070	415.3E6	374.7E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	2.584	3.106	532.1E6	478.6E6	68.652	70.660
	Spiked Amount 40.000 Range 30 - 150 Recovery = 171.63%# 176.65%#						
24) SA	Decachlor...	10.253	11.658	521.7E6	338.4E6	64.623	56.282
	Spiked Amount 40.000 Recovery = 161.56% 140.70%						
	Target Compounds						
3) A	alpha-BHC	3.152	3.872	817.5E6	758.2E6	84.477	83.940
4) MA	gamma-BHC	3.498	4.350	721.8E6	676.4E6	86.994	82.490
5) MA	Heptachlor	3.816	4.978	705.9E6	679.9E6	79.227	80.393
6) B	beta-BHC	3.600	4.447	340.5E6	290.2E6	85.114	77.493
7) B	delta-BHC	4.063	4.879	654.8E6	618.2E6	80.470	82.470
8) MB	Aldrin	4.438	5.465	688.8E6	655.6E6	79.512	79.980
9) B	Heptachlo...	5.203	6.329	611.8E6	583.9E6	81.021	77.666
10) B	gamma-Chl...	5.385	6.628	627.3E6	586.9E6	85.701	79.228
11) B	alpha-Chl...	5.566	6.860	627.7E6	546.6E6	82.774	74.357
12) A	Endosulfan I	5.752	6.965	654.1E6	549.7E6	79.288	77.957
13) B	4,4'-DDE	5.691	7.118	594.4E6	591.4E6	98.809	84.449
14) MA	Dieldrin	6.091	7.413	670.7E6	597.8E6	87.574	81.686
15) MA	Endrin	6.429	7.935	623.1E6	528.5E6	87.351	80.243
16) A	4,4'-DDD	6.567	8.094	540.1E6	479.0E6	95.654	81.051
17) B	Endosulfa...	6.767	8.292	619.8E6	511.9E6	89.216	77.947
18) MA	4,4'-DDT	6.997	8.637	426.8E6	439.5E6	71.798	86.926
19) B	Endrin Al...	7.404	8.870	498.5E6	373.7E6	85.019	70.978
20) B	Endosulfa...	8.099	9.346	534.6E6	415.5E6	89.535	76.458
21) A	Methoxychlor	7.807	9.846	246.7E6	219.0E6	80.541	76.438
22)	Mirex	7.997	10.160	503.1E6	336.5E6	78.969	67.792
23) B	Endrin Ke...	8.560	10.204	641.5E6	476.5E6	92.558m	81.713
	SemiQuant Compounds - Not Calibrated on this Instrument						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

11.6.7

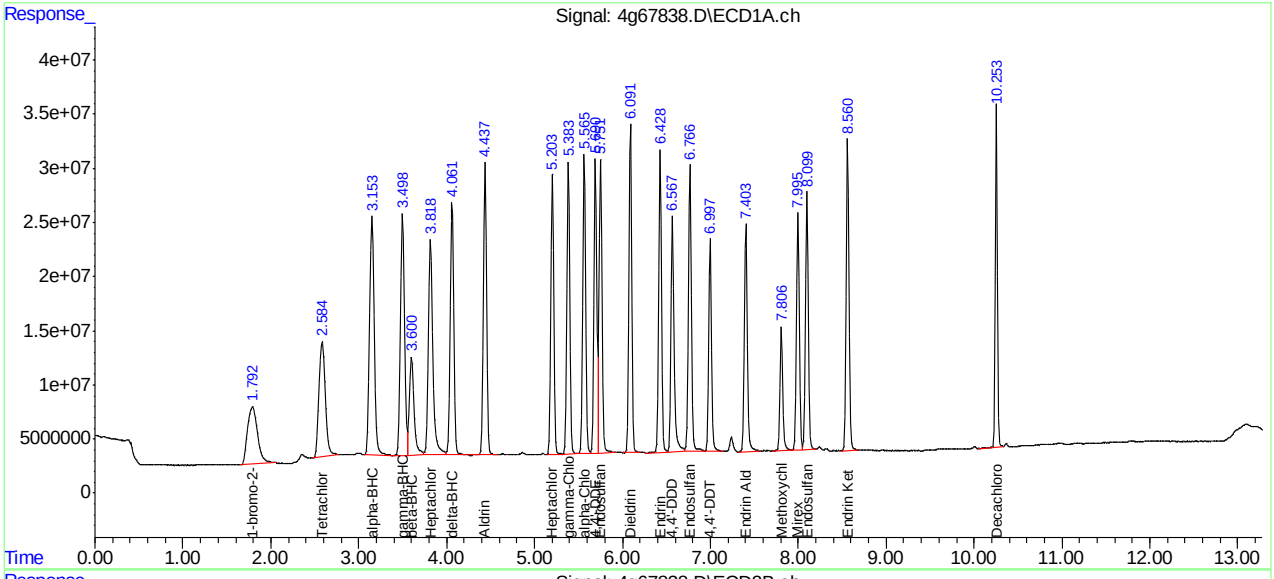
11

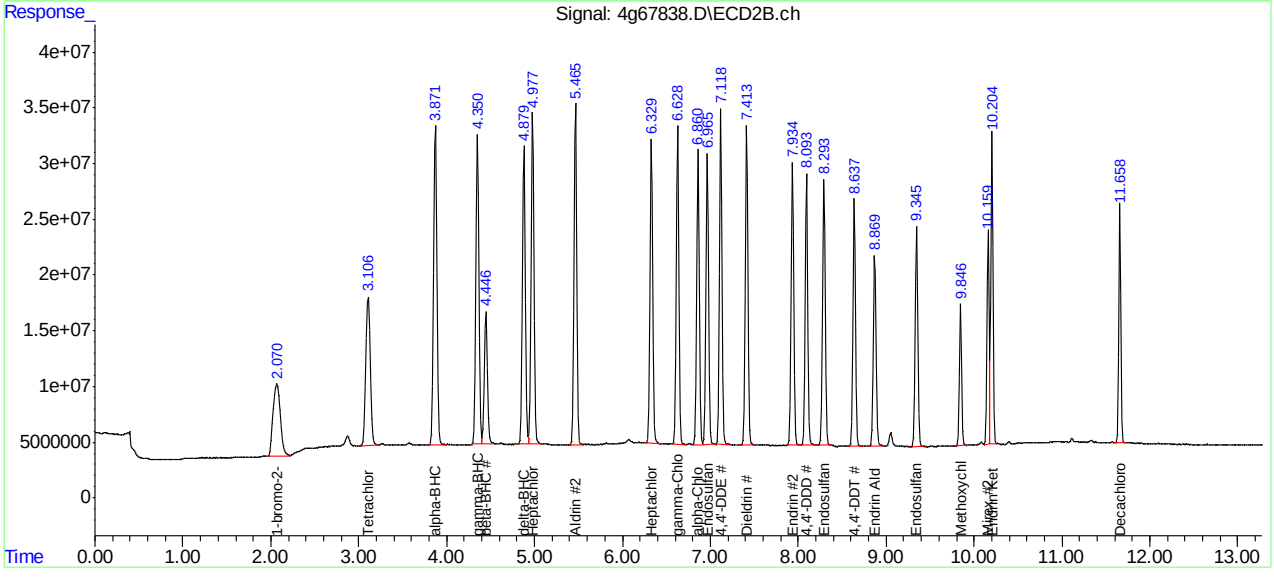
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67838.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 3:57 pm
Operator : dharas
Sample : ic1778-75
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:19:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





Manual Integration Approval Summary

Sample Number:	G4G1778-IC1778	**Method:**	SW846 8081B
Lab FileID:	4G67838.D	**Analyst approved:**	05/03/16 15:16 Rebecca Krug
Injection Time:	05/02/16 15:57	**Supervisor approved:**	05/04/16 11:11 Gwendolyn Burns

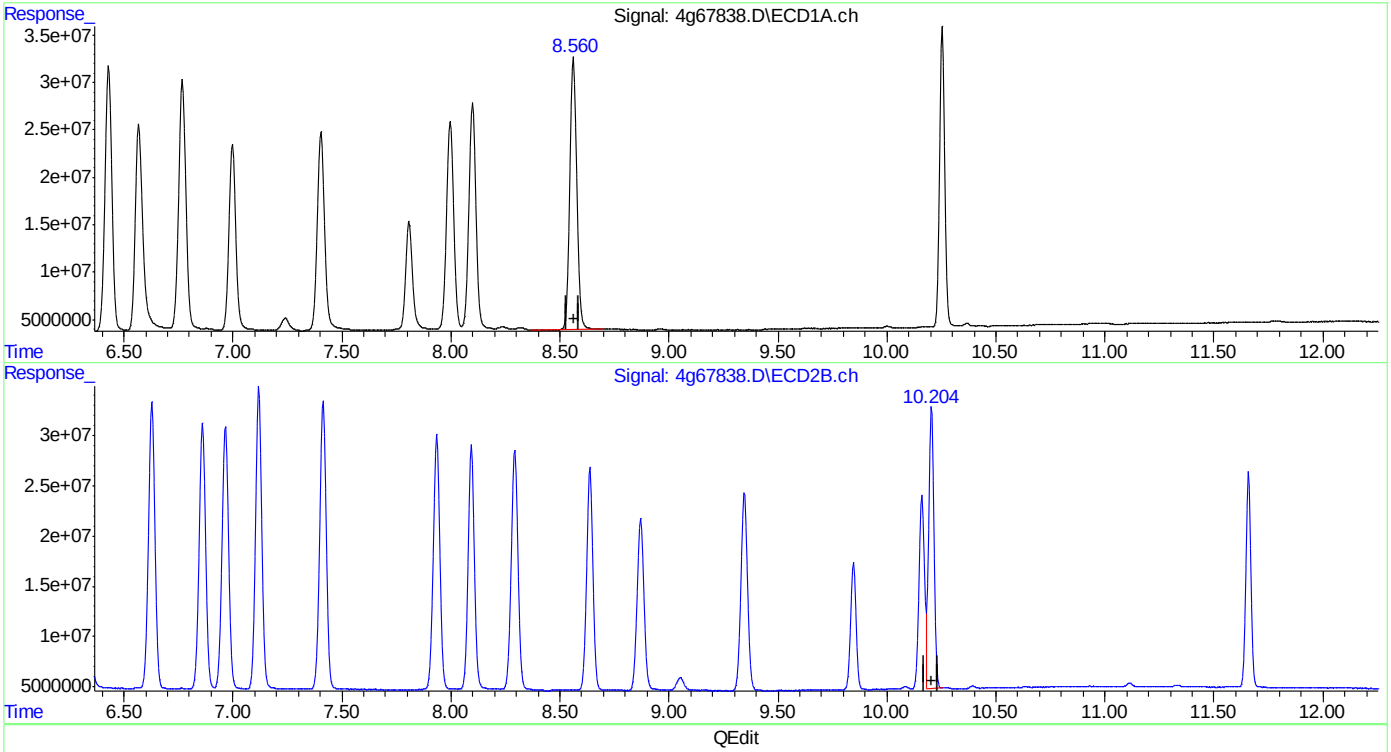
Parameter	CAS	Sig#	R.T. (min.)	Reason
Endrin ketone	53494-70-5	1	8.56	Poorly defined baseline

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67838.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 3:57 pm
Operator : dharas
Sample : ic1778-75
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 14:51:38 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



(23) Endrin Ketone (B)
8.561min 93.275 PPB
response 646481914

(23) Endrin Ketone #2 (B)
10.204min 81.713 PPB
response 476495180

(+) = Expected Retention Time

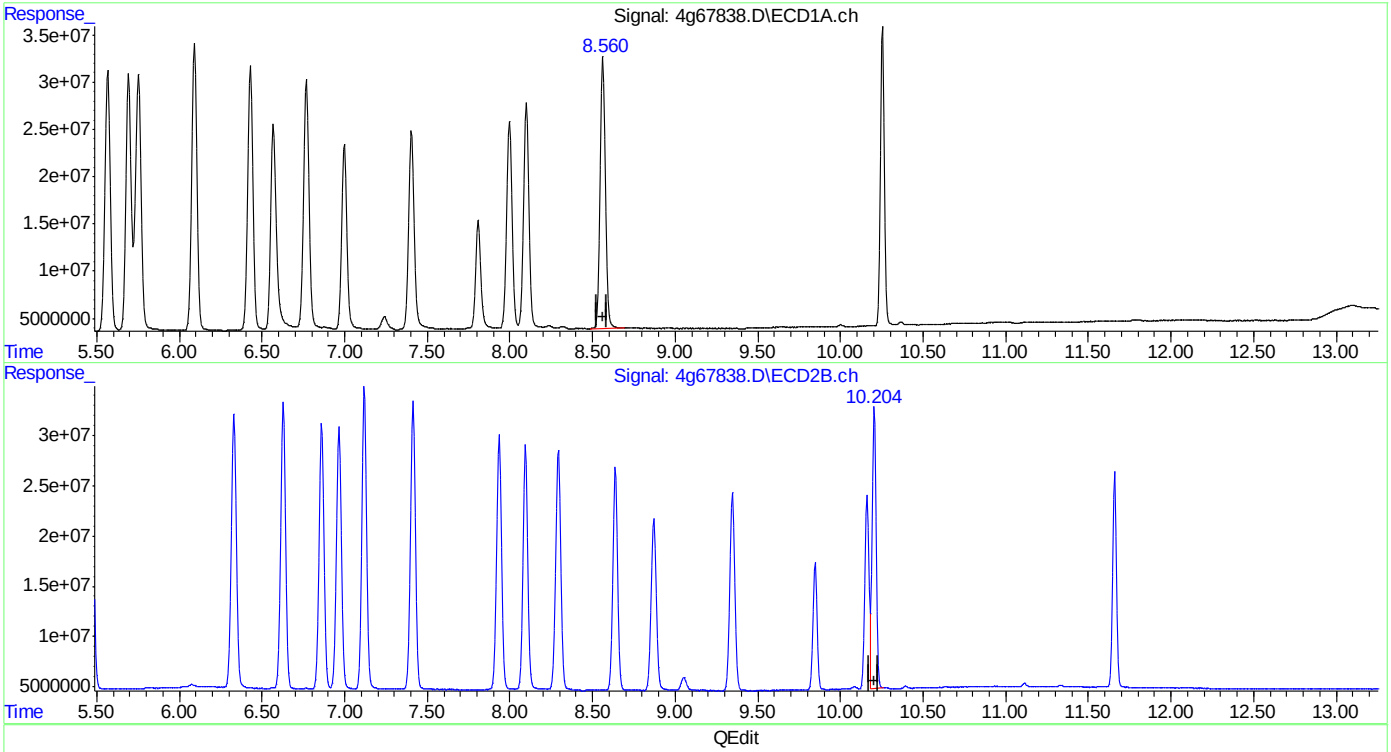
SGS ACCUTEST JC20098

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67838.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 3:57 pm
Operator : dharas
Sample : ic1778-75
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 14:51:38 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(23) Endrin Ketone (B)
8.560min 92.558 PPB m
response 641511204

(23) Endrin Ketone #2 (B)
10.204min 81.713 PPB
response 476495180

(+) = Expected Retention Time
4PST1778.M Tue May 03 14:52:10 2016 RPT1

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67839.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 4:12 pm
Operator : dharas
Sample : ic1778-100
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:20:03 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB	
	Internal Standards							
1) I	1-bromo-2...	1.800	2.071	428.6E6	373.8E6	50.000	50.000	
	System Monitoring Compounds							
2) SAB	Tetrachlo...	2.590	3.108	762.3E6	681.0E6	95.315	100.796	
	Spiked Amount 40.000	Range	30 - 150	Recovery	=	238.29%#	251.99%#	
24) SA	Decachlor...	10.254	11.659	715.3E6	451.9E6	85.866	75.353	
	Spiked Amount 40.000			Recovery	=	214.67%	188.38%	
	Target Compounds							
3) A	alpha-BHC	3.155	3.873	1132.1E6	1051.3E6	113.363	116.683	
4) MA	gamma-BHC	3.500	4.351	998.9E6	936.7E6	116.662	114.526	
5) MA	Heptachlor	3.818	4.980	986.2E6	935.0E6	107.263	110.834	
6) B	beta-BHC	3.602	4.448	460.1E6	397.0E6	111.447	106.286	
7) B	delta-BHC	4.066	4.879	918.0E6	897.8E6	109.319	120.062	
8) MB	Aldrin	4.440	5.466	955.0E6	902.8E6	106.828	110.419	
9) B	Heptachlo...	5.205	6.331	856.9E6	801.6E6	109.968	106.889	
10) B	gamma-Chl...	5.388	6.629	879.8E6	808.8E6	116.475	109.453	
11) B	alpha-Chl...	5.568	6.861	874.3E6	777.6E6	111.722	106.037	
12) A	Endosulfan I	5.753	6.967	905.6E6	755.8E6	106.366	107.447	
13) B	4,4'-DDE	5.692	7.120	838.9E6	816.1E6	135.140	116.821	
14) MA	Dieldrin	6.092	7.414	940.0E6	826.2E6	118.944	113.170	
15) MA	Endrin	6.431	7.935	864.5E6	730.8E6	117.437	111.235	
16) A	4,4'-DDD	6.568	8.095	754.7E6	662.2E6	129.537	112.316	
17) B	Endosulfa...	6.769	8.293	858.5E6	705.6E6	119.744	107.729	
18) MA	4,4'-DDT	6.998	8.638	618.5E6	617.0E6	94.482	122.335	#
19) B	Endrin Al...	7.404	8.871	682.4E6	526.9E6	112.778	100.329	
20) B	Endosulfa...	8.100	9.347	739.7E6	568.8E6	120.051	104.922	
21) A	Methoxychlor	7.809	9.846	344.1E6	301.5E6	108.887	105.483	
22)	Mirex	7.999	10.161	682.7E6	455.3E6	103.844	91.945	
23) B	Endrin Ke...	8.562	10.204	879.5E6	650.7E6	122.964	111.871	

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

11.6.8 11

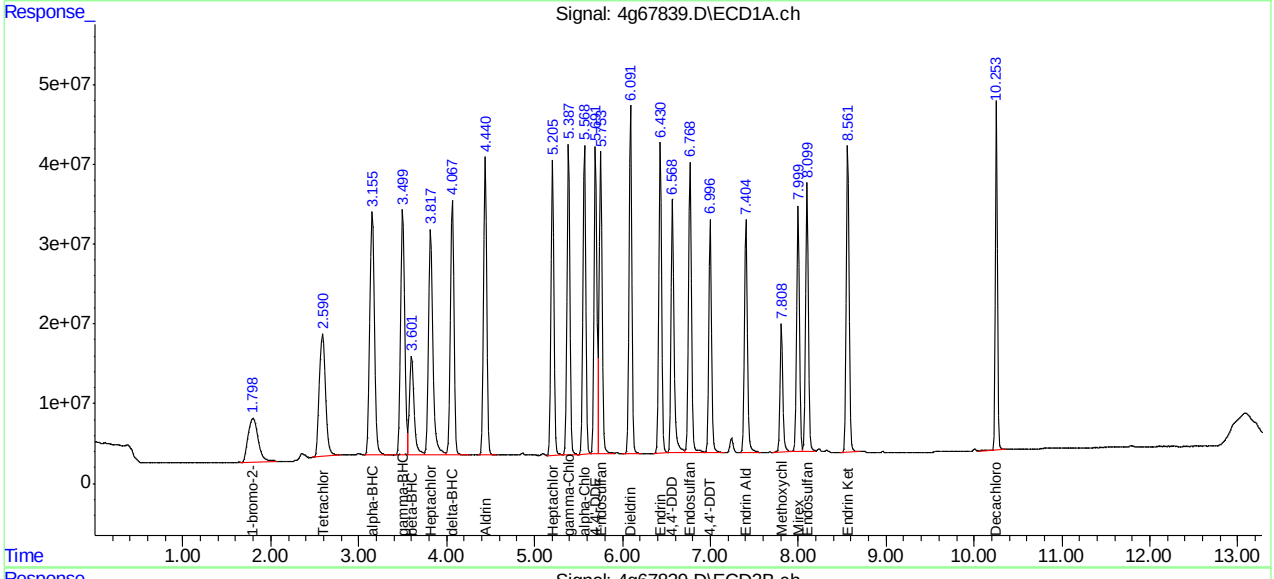
SGS ACCUTEST JC20098

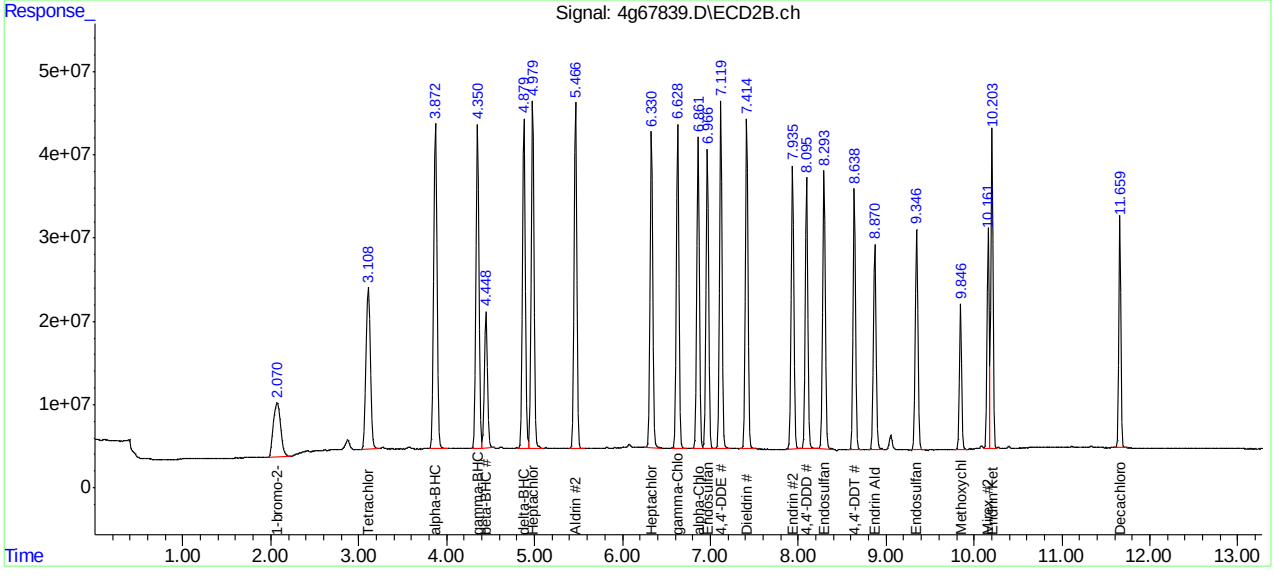
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67839.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 4:12 pm
Operator : dharas
Sample : ic1778-100
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:20:03 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 14:43:03 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
05/04/16 11:11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67840.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 4:27 pm
Operator : dharas
Sample : ic1778-500
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:18:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:09:54 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
31) I	1-bromo-2...	1.803	2.075	424.0E6	370.6E6	50.000	50.000
	System Monitoring Compounds						
	Target Compounds						
32)	Chlordane...	3.963	4.768	119.9E6	138.0E6	549.150	581.233
33)	Chlordane...	4.595	5.669	153.9E6	129.0E6	509.420	572.820
34)	Chlordane...	5.389	6.629	518.8E6	474.6E6	575.261	553.319
35)	Chlordane...	5.561	6.862	842.6E6	770.3E6	579.366	552.743m
36)	Chlordane...	6.682	8.375	127.3E6	123.2E6	598.874	585.066
	SemiQuant Compounds - Not Calibrated on this Instrument						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

11.6.9 11

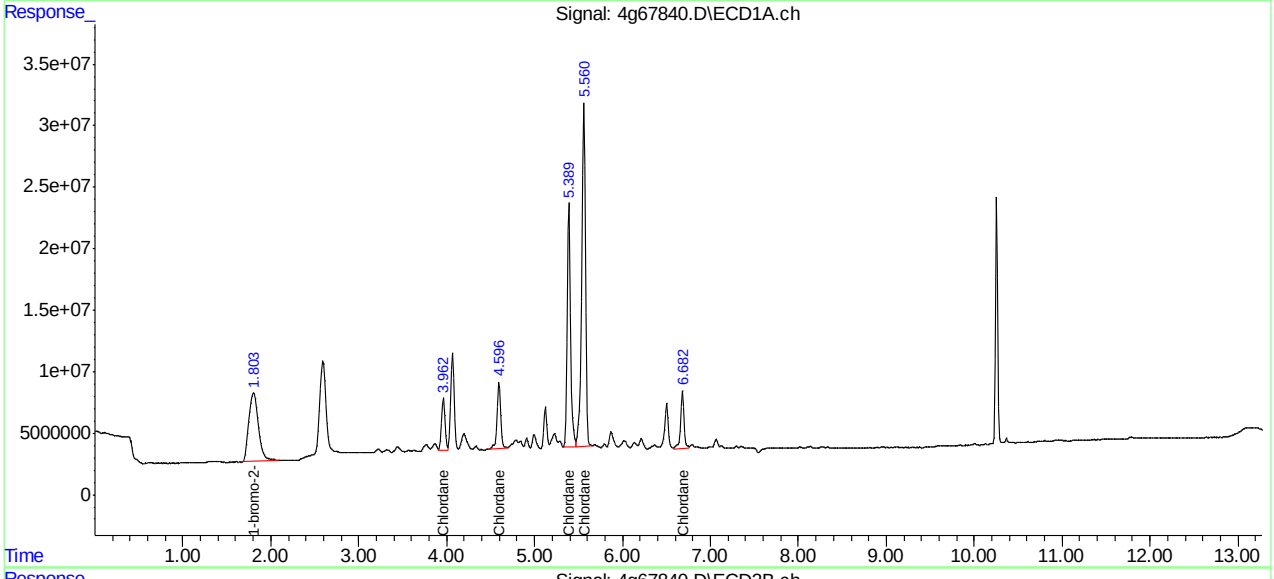
SGS ACCUTEST JC20098

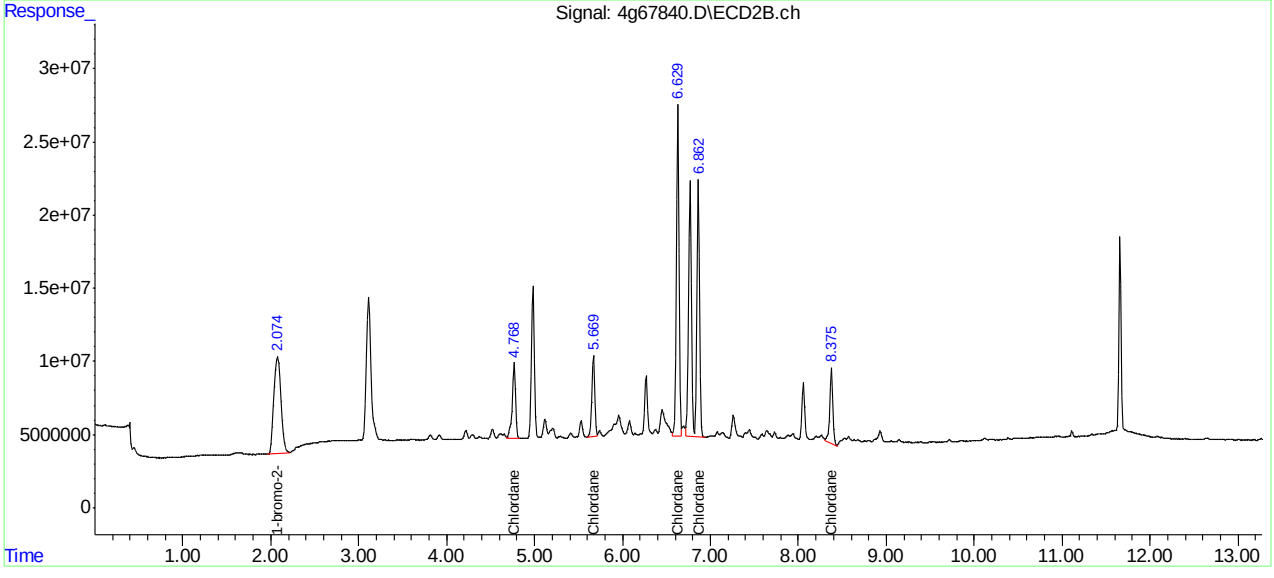
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67840.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 4:27 pm
Operator : dharas
Sample : ic1778-500
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:18:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:09:54 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





SGS ACCUTEST JC20098

Manual Integration Approval Summary

Sample Number:	G4G1778-IC1778	**Method:**	SW846 8081B
Lab FileID:	4G67840.D	**Analyst approved:**	05/03/16 15:16 Rebecca Krug
Injection Time:	05/02/16 16:27	**Supervisor approved:**	05/04/16 11:11 Gwendolyn Burns

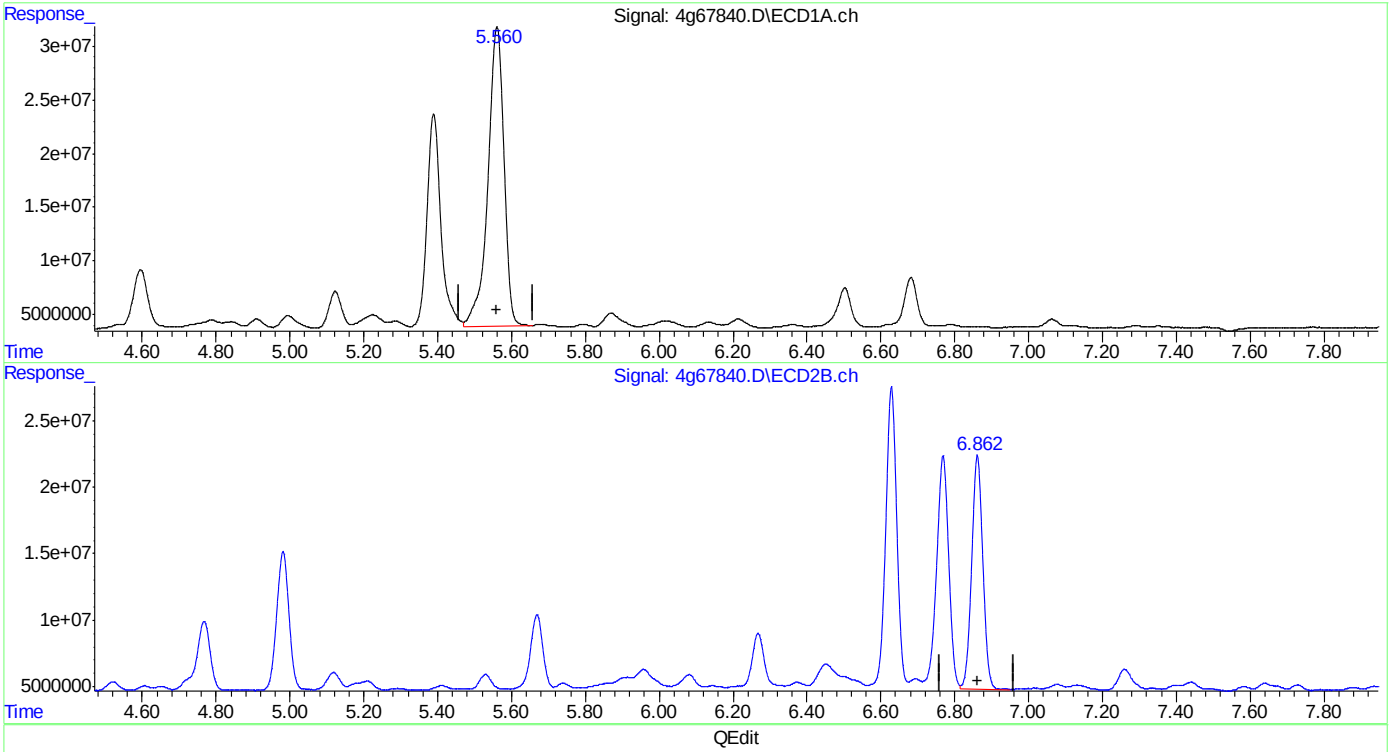
Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrachloro-m-xylene	877-09-8	1	2.59	Poorly defined baseline
Chlordane-D		2	6.86	Poorly defined baseline
Decachlorobiphenyl	2051-24-3	2	11.66	Poorly defined baseline

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67840.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 4:27 pm
Operator : dharas
Sample : ic1778-500
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:09:59 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:09:54 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



(35) Chlordane {D}
5.561min 579.366 PPB
response 842595879

(35) Chlordane {D} #2
6.862min 264.113 PPB
response 368069999

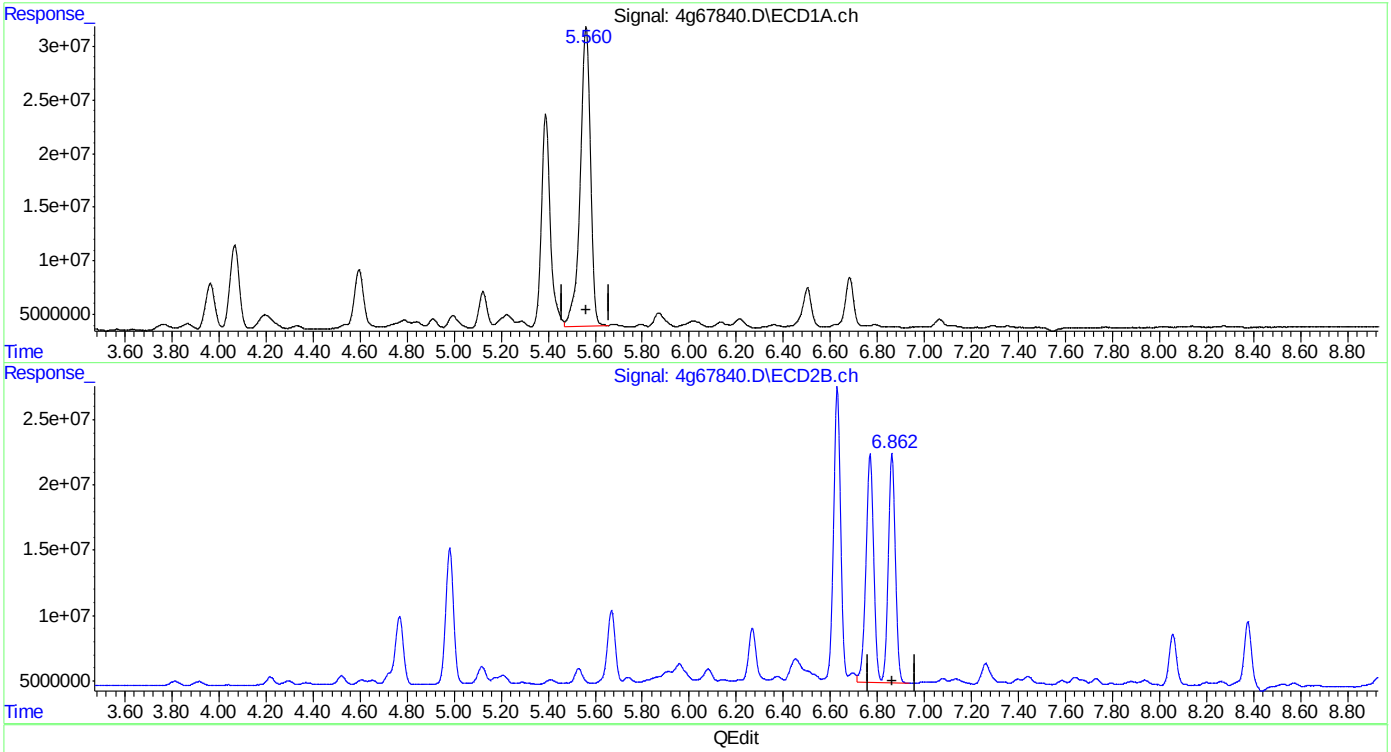
(+) = Expected Retention Time
4PST1778.M Tue May 03 15:10:33 2016 RPT1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67840.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 4:27 pm
Operator : dharas
Sample : ic1778-500
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:09:59 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:09:54 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(35) Chlordane {D}
5.561min 579.366 PPB
response 842595879

(35) Chlordane {D} #2
6.862min 552.743 PPB m
response 770308138

(+) = Expected Retention Time

SGS ACCUTEST JC20098

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 05/04/16 11:11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67841.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 4:42 pm
Operator : dharas
Sample : ic1778-500
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:17:59 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:14:48 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
25) I	1-bromo-2...	1.797	2.074	438.0E6	383.1E6	50.000	50.000
	System Monitoring Compounds						
	Target Compounds						
26) L8	Toxaphene{A}	6.486	7.373	142.2E6	68329507	516.971	487.897
27) L8	Toxaphene{B}	6.756	8.261	146.0E6	80885233	511.480	467.993
28) L8	Toxaphene{C}	6.932	8.427	195.7E6	137.9E6	497.287	481.889
29) L8	Toxaphene{D}	7.293	8.870	130.7E6	81210154	544.384	453.381
30) L8	Toxaphene{E}	7.971	9.773	87027325	64276056	421.747	431.824
	SemiQuant Compounds - Not Calibrated on this Instrument						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

11.6.10 11

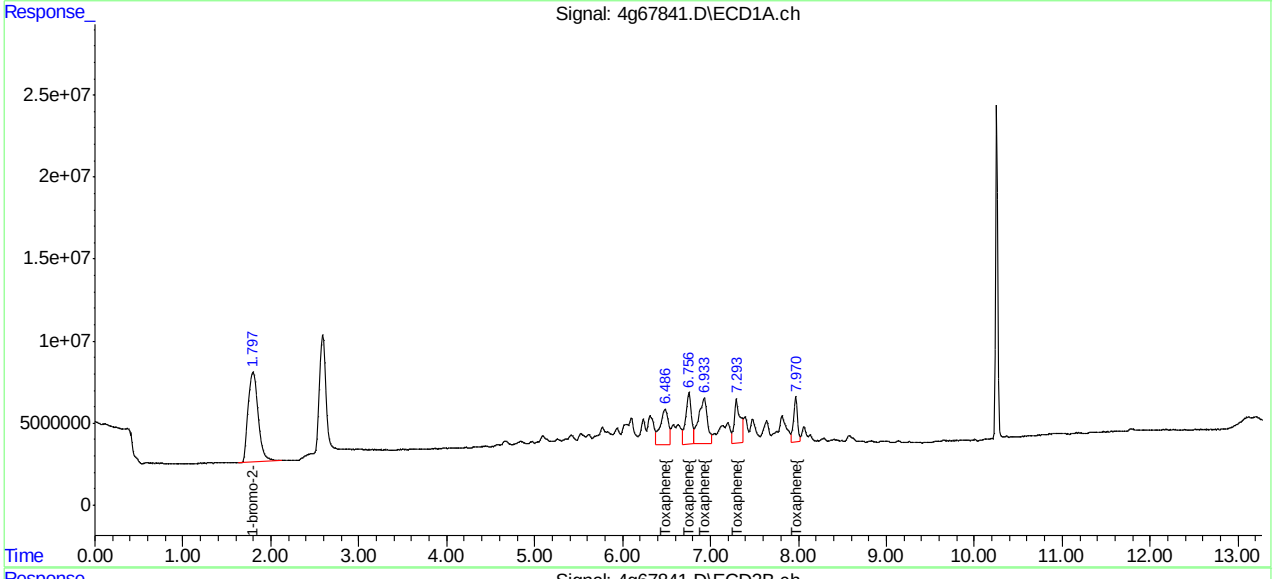
SGS ACCUTEST JC20098

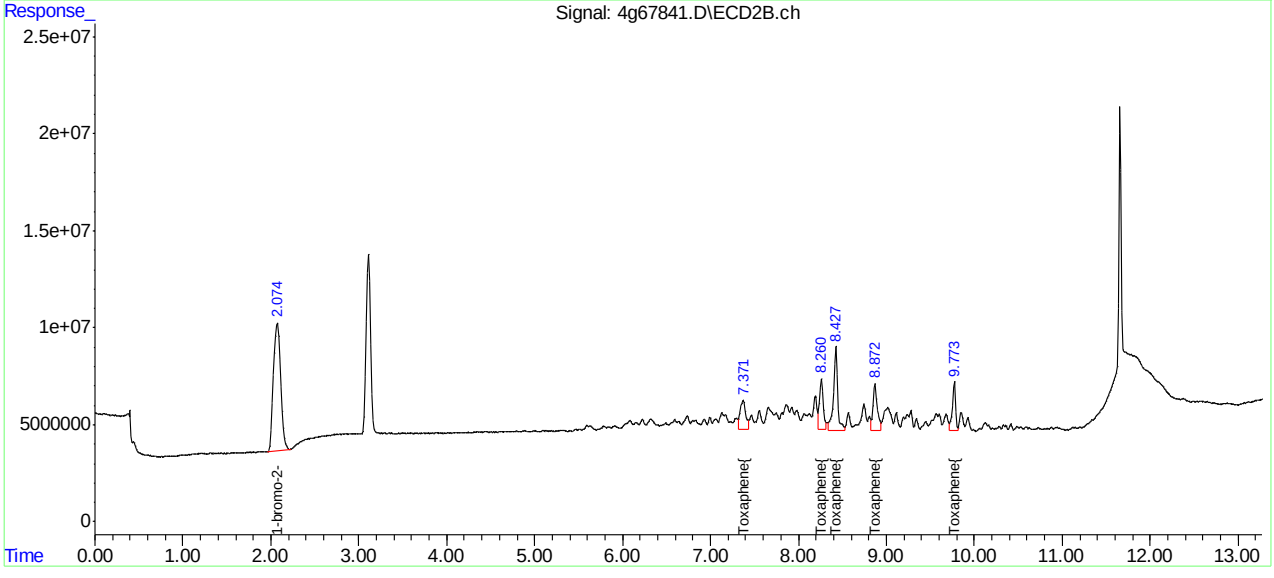
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67841.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 4:42 pm
Operator : dharas
Sample : ic1778-500
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:17:59 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:14:48 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





SGS ACCUTEST JC20098

Manual Integration Approval Summary

Sample Number:	G4G1778-IC1778	**Method:**	SW846 8081B
Lab FileID:	4G67841.D	**Analyst approved:**	05/03/16 15:16 Rebecca Krug
Injection Time:	05/02/16 16:42	**Supervisor approved:**	05/04/16 11:11 Gwendolyn Burns

Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrachloro-m-xylene	877-09-8	1	2.59	Poorly defined baseline
Tetrachloro-m-xylene	877-09-8	2	3.11	Poorly defined baseline
Decachlorobiphenyl	2051-24-3	1	10.25	Poorly defined baseline
Decachlorobiphenyl	2051-24-3	2	11.66	Poorly defined baseline

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 05/04/16 11:11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67842.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 4:57 pm
Operator : dharas
Sample : icv1778-25
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:45:13 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.797	2.070	447.9E6	395.6E6	50.000	50.000
25) I	1-bromo-2...	1.797	2.070	447.9E6	395.6E6	50.000	50.000
31) I	1-bromo-2...	1.797	2.070	447.9E6	395.6E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	2.590	3.108	180.0E6	155.5E6	23.306m	22.318
Spiked Amount		40.000 Range	30 - 150	Recovery	=	58.27%	55.80%
24) SA	Decachlor...	10.254	11.658	161.3E6	117.3E6	22.161m	23.749m
Spiked Amount		40.000		Recovery	=	55.40%	59.37%
	Target Compounds						
3) A	alpha-BHC	3.157	3.874	231.1E6	220.6E6	21.865	21.663
4) MA	gamma-BHC	3.504	4.352	211.8E6	200.5E6	22.924	22.153
5) MA	Heptachlor	3.824	4.979	210.1E6	203.5E6	24.217	21.822
6) B	beta-BHC	3.612	4.449	106.8E6	91892610	24.139	22.418
7) B	delta-BHC	4.064	4.881	189.3E6	192.9E6	22.486	22.832
8) MB	Aldrin	4.438	5.466	199.4E6	195.1E6	22.525	21.240
9) B	Heptachlo...	5.206	6.331	181.4E6	182.2E6	22.939	21.967
10) B	gamma-Chl...	5.388	6.629	187.1E6	181.9E6	23.668	22.684
11) B	alpha-Chl...	5.569	6.862	186.3E6	172.0E6	21.854	21.359
12) A	Endosulfan I	5.754	6.967	195.4E6	166.8E6	22.287	21.698
13) B	4,4'-DDE	5.699	7.121	161.7E6	182.2E6	20.456	22.688
14) MA	Dieldrin	6.093	7.414	191.9E6	182.2E6	23.091	22.721
15) MA	Endrin	6.433	7.935	181.5E6	165.6E6	22.929	23.169
16) A	4,4'-DDD	6.579	8.096	149.4E6	148.7E6	22.306	22.914
17) B	Endosulfa...	6.772	8.295	175.0E6	159.0E6	22.978	22.502
18) MA	4,4'-DDT	7.003	8.639	101.9E6	125.0E6	21.374	22.033m
19) B	Endrin Al...	7.409	8.871	161.1E6	122.6E6	25.053	22.836
20) B	Endosulfa...	8.103	9.348	158.3E6	130.1E6	22.675	22.009
21) A	Methoxychlor	7.816	9.846	66800291	67219438	22.387	21.810m
23) B	Endrin Ke...	8.567	10.205	186.3E6	142.4E6	23.077	21.947

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

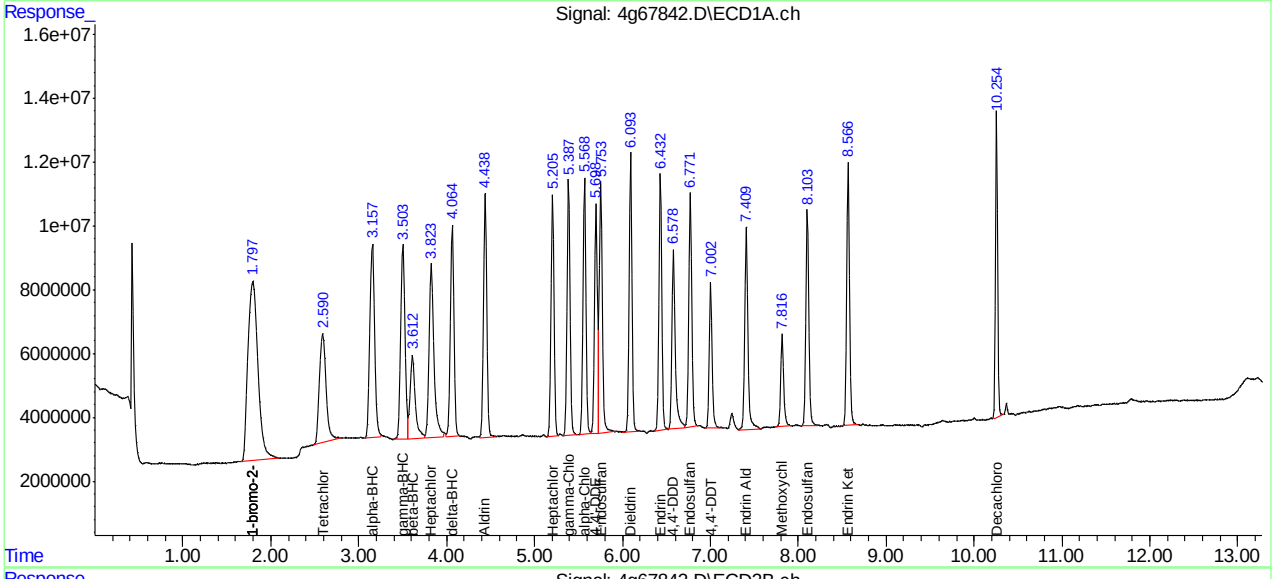
11.6.11 11

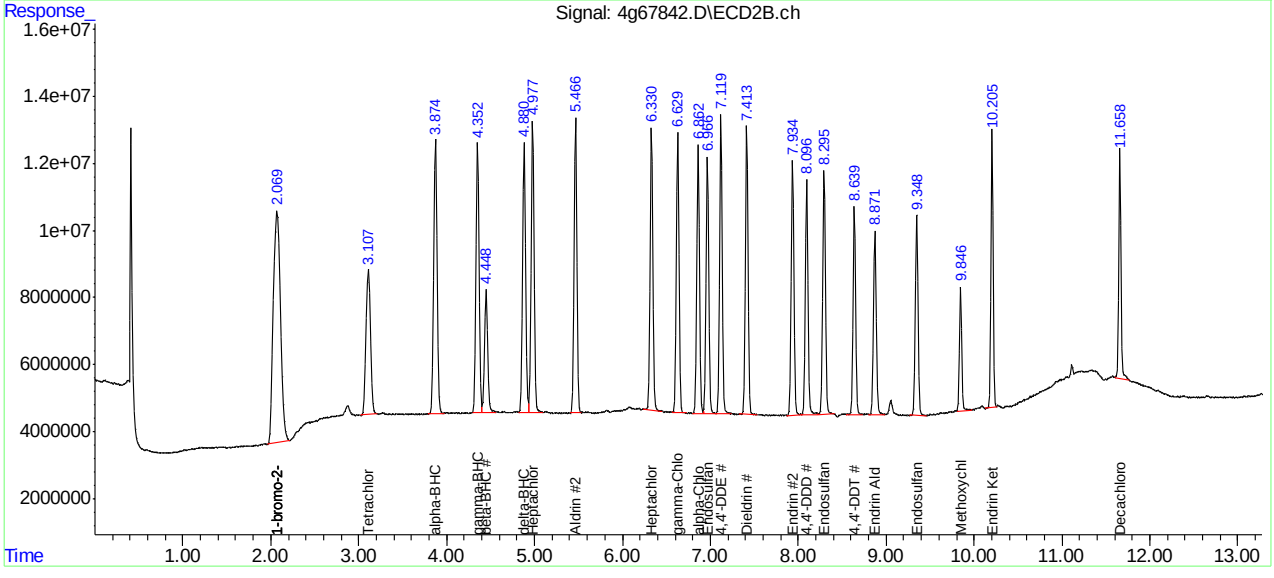
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67842.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 4:57 pm
Operator : dharas
Sample : icv1778-25
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:45:13 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





Manual Integration Approval Summary

Sample Number:	G4G1778-ICV1778	**Method:**	SW846 8081B
Lab FileID:	4G67842.D	**Analyst approved:**	05/03/16 16:01 Joseph Ravino
Injection Time:	05/02/16 16:57	**Supervisor approved:**	05/04/16 11:11 Gwendolyn Burns

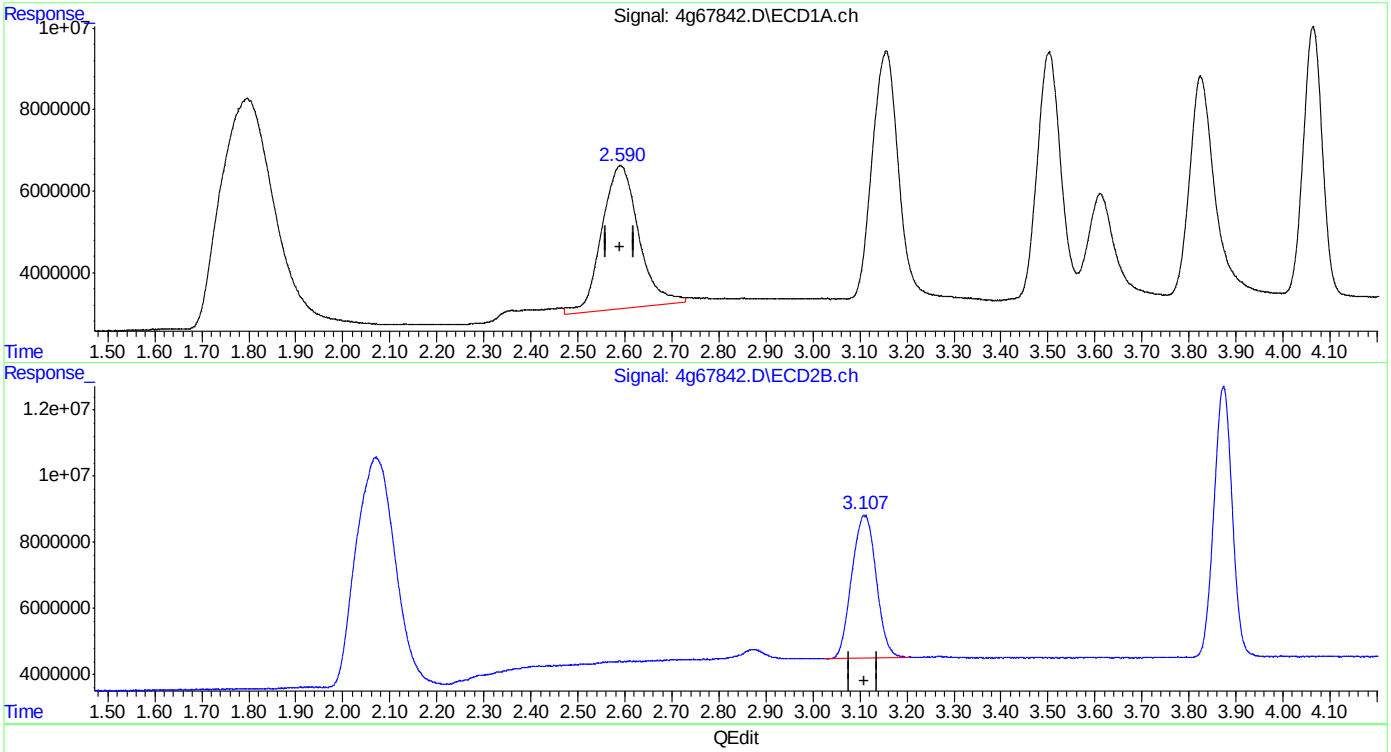
Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrachloro-m-xylene	877-09-8	1	2.59	Poor instrument integration
4,4'-DDT	50-29-3	2	8.64	Poor instrument integration
Methoxychlor	72-43-5	2	9.85	Poor instrument integration
Decachlorobiphenyl	2051-24-3	1	10.25	Poor instrument integration
Decachlorobiphenyl	2051-24-3	2	11.66	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67842.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 4:57 pm
Operator : dharas
Sample : icv1778-25
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:40:34 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(2) Tetrachloro-m-xylene (SAB)
2.591min 25.008 PPB
response 193134554

(2) Tetrachloro-m-xylene #2 (SAB)
3.108min 22.318 PPB
response 155495357

(+) = Expected Retention Time

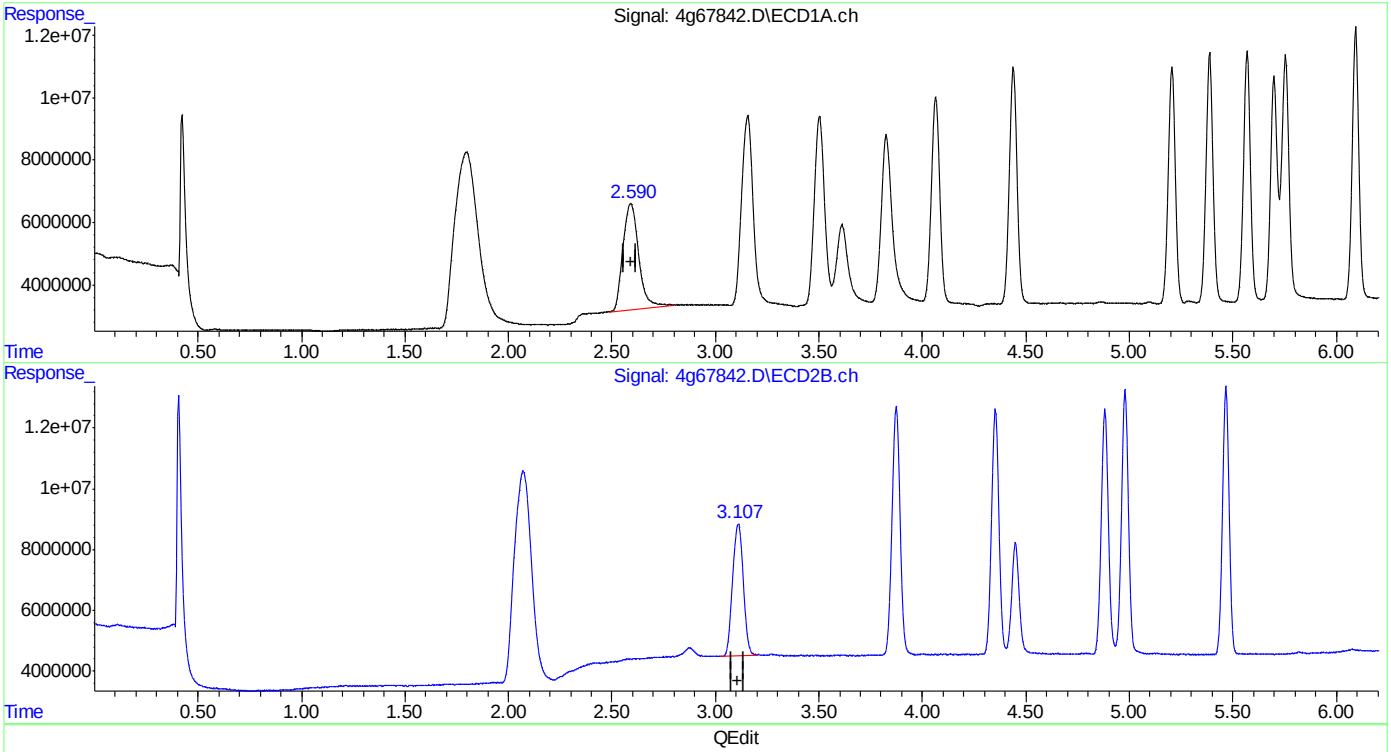
SGS ACCUTEST JC20098

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67842.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 4:57 pm
Operator : dharas
Sample : icv1778-25
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:40:34 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(2) Tetrachloro-m-xylene (SAB)
2.590min 23.306 PPB m
response 179985359

(2) Tetrachloro-m-xylene #2 (SAB)
3.108min 22.318 PPB
response 155495357

(+) = Expected Retention Time
4PST1778.M Tue May 03 15:44:02 2016 RPT1

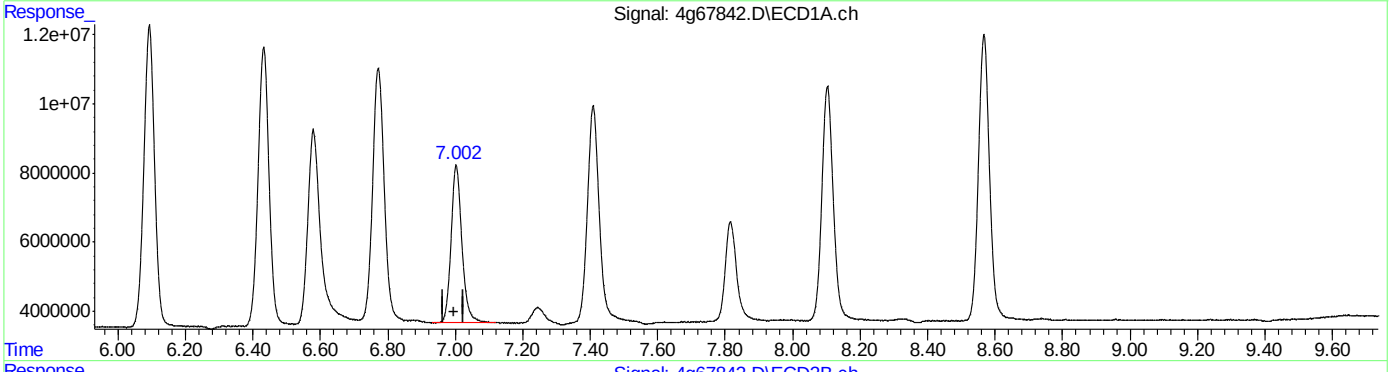
SGS ACCUTEST JC20098

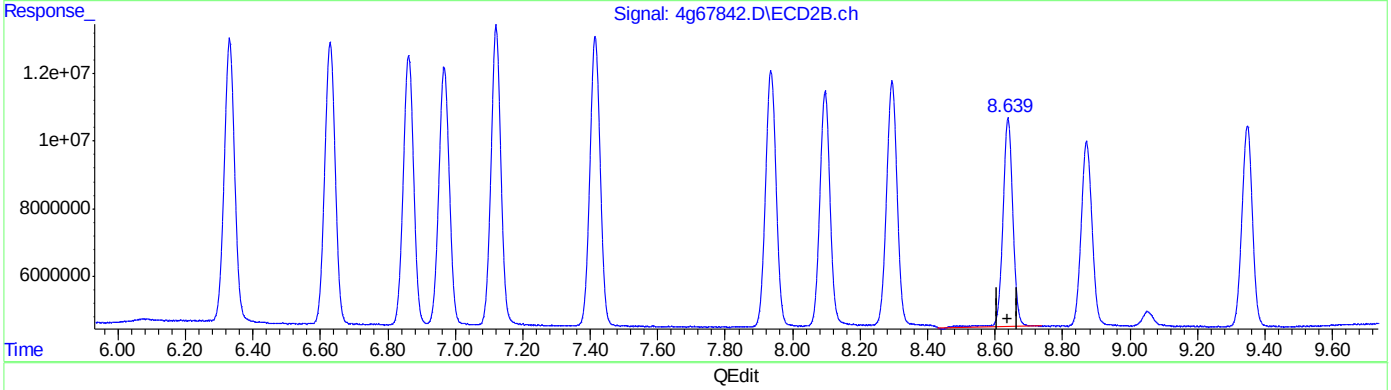
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67842.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 4:57 pm
Operator : dharas
Sample : icv1778-25
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:40:34 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(18) 4,4'-DDT (MA)
7.003min 21.374 PPB
response 101850530

(18) 4,4'-DDT #2 (MA)
8.639min 22.461 PPB
response 127387090

(+) = Expected Retention Time
4PST1778.M Tue May 03 15:44:18 2016 RPT1

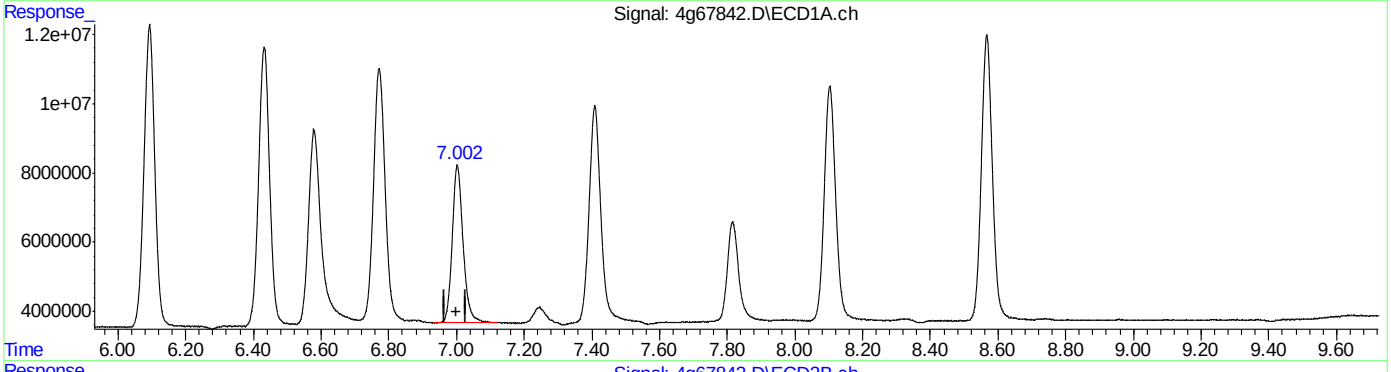
SGS ACCUTEST JC20098

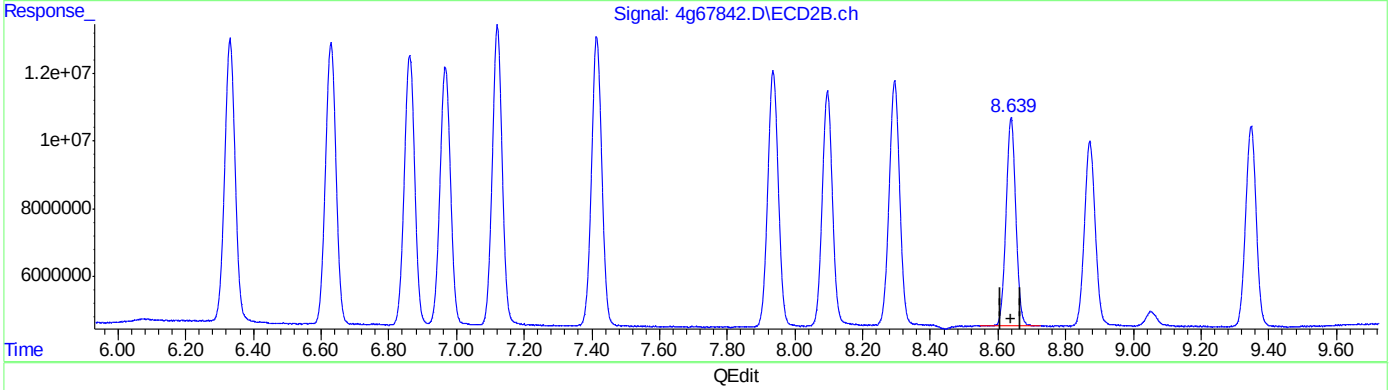
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67842.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 4:57 pm
Operator : dharas
Sample : icv1778-25
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:40:34 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(18) 4,4'-DDT (MA)
7.003min 21.374 PPB
response 101850530

(18) 4,4'-DDT #2 (MA)
8.639min 22.033 PPB m
response 124961944

(+) = Expected Retention Time

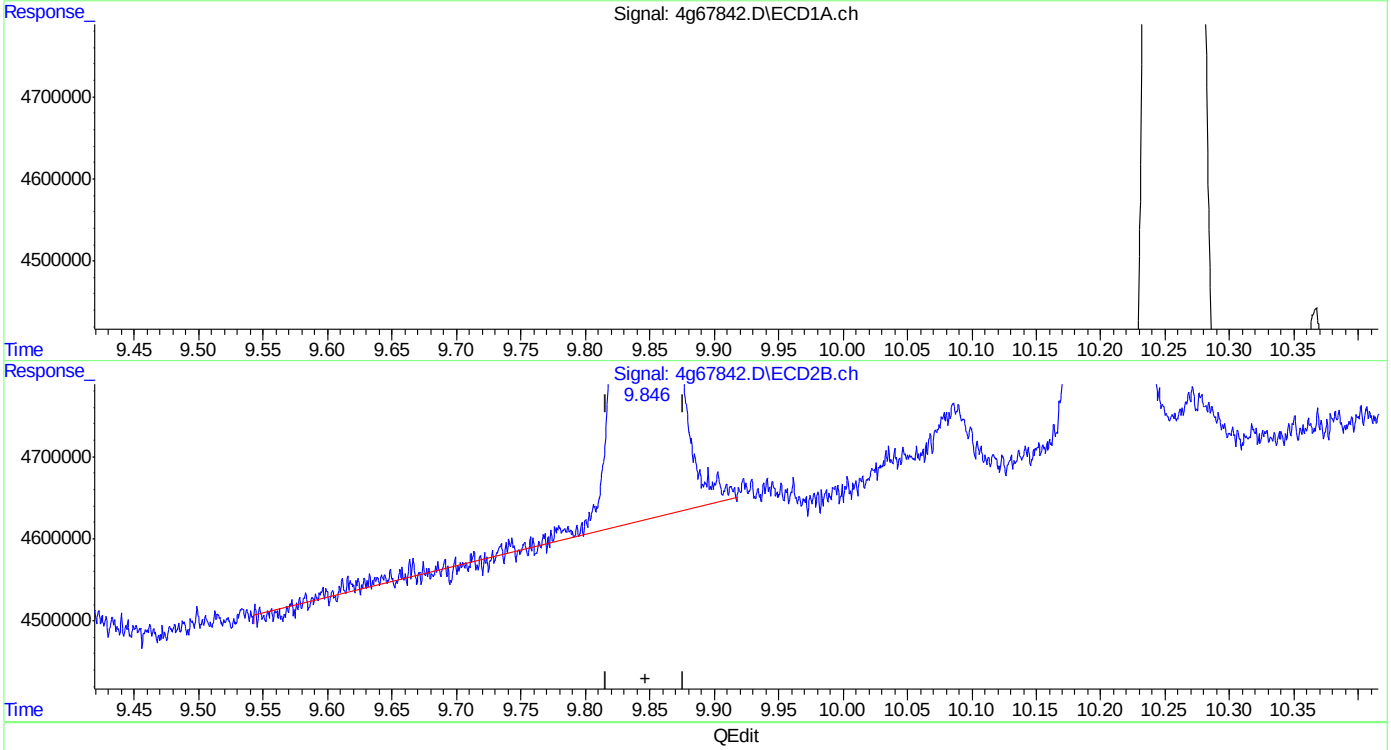
SGS ACCUTEST JC20098

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67842.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 4:57 pm
Operator : dharas
Sample : icv1778-25
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:40:34 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(21) Methoxychlor (A)
7.816min 22.387 PPB
response 66800291

(21) Methoxychlor #2 (A)
9.847min 21.412 PPB
response 65994725

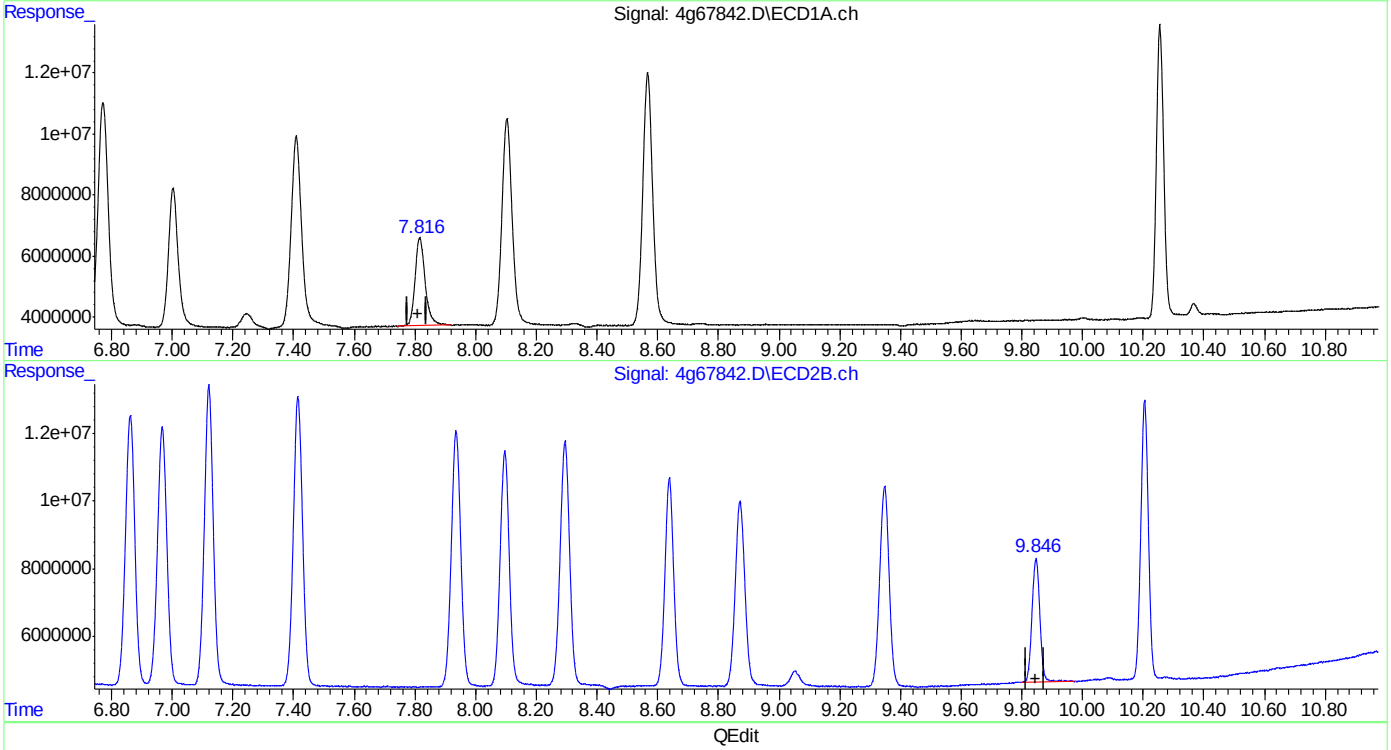
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67842.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 4:57 pm
Operator : dharas
Sample : icv1778-25
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:40:34 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(21) Methoxychlor (A)
7.816min 22.387 PPB
response 66800291

(21) Methoxychlor #2 (A)
9.846min 21.810 PPB m
response 67219438

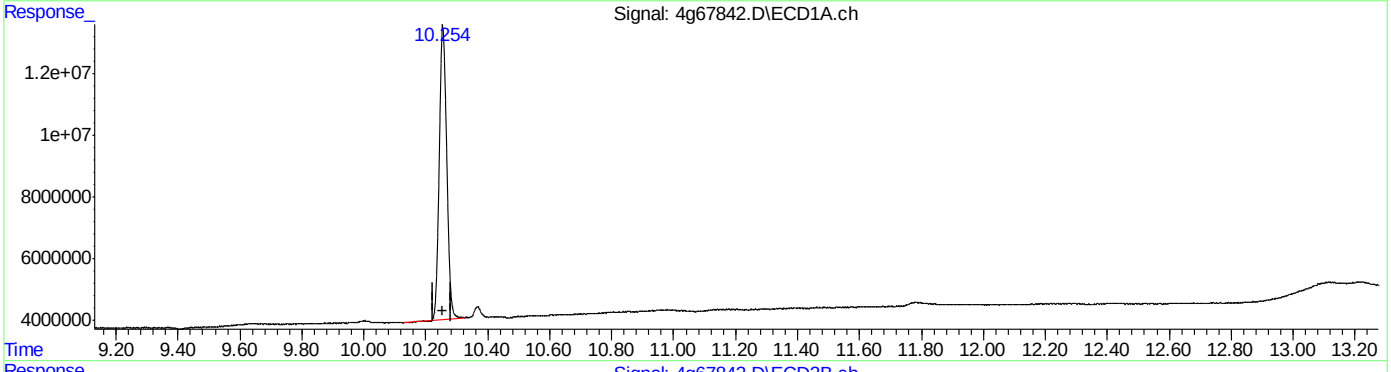
(+) = Expected Retention Time
4PST1778.M Tue May 03 15:44:44 2016 RPT1

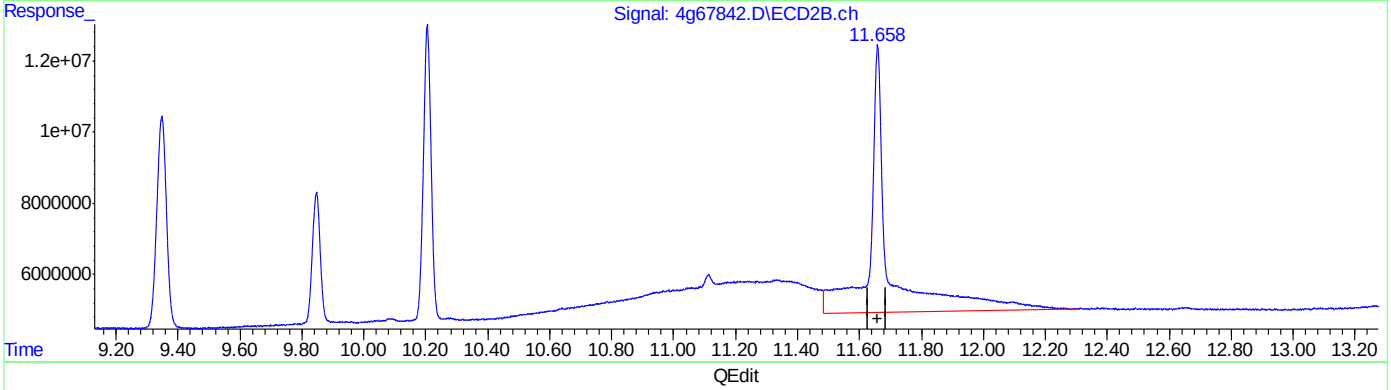
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67842.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 4:57 pm
Operator : dharas
Sample : icv1778-25
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:40:34 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(24) Decachlorobiphenyl (SA)
10.255min 21.851 PPB
response 159017875

(24) Decachlorobiphenyl #2 (SA)
11.659min 65.026 PPB
response 321299025

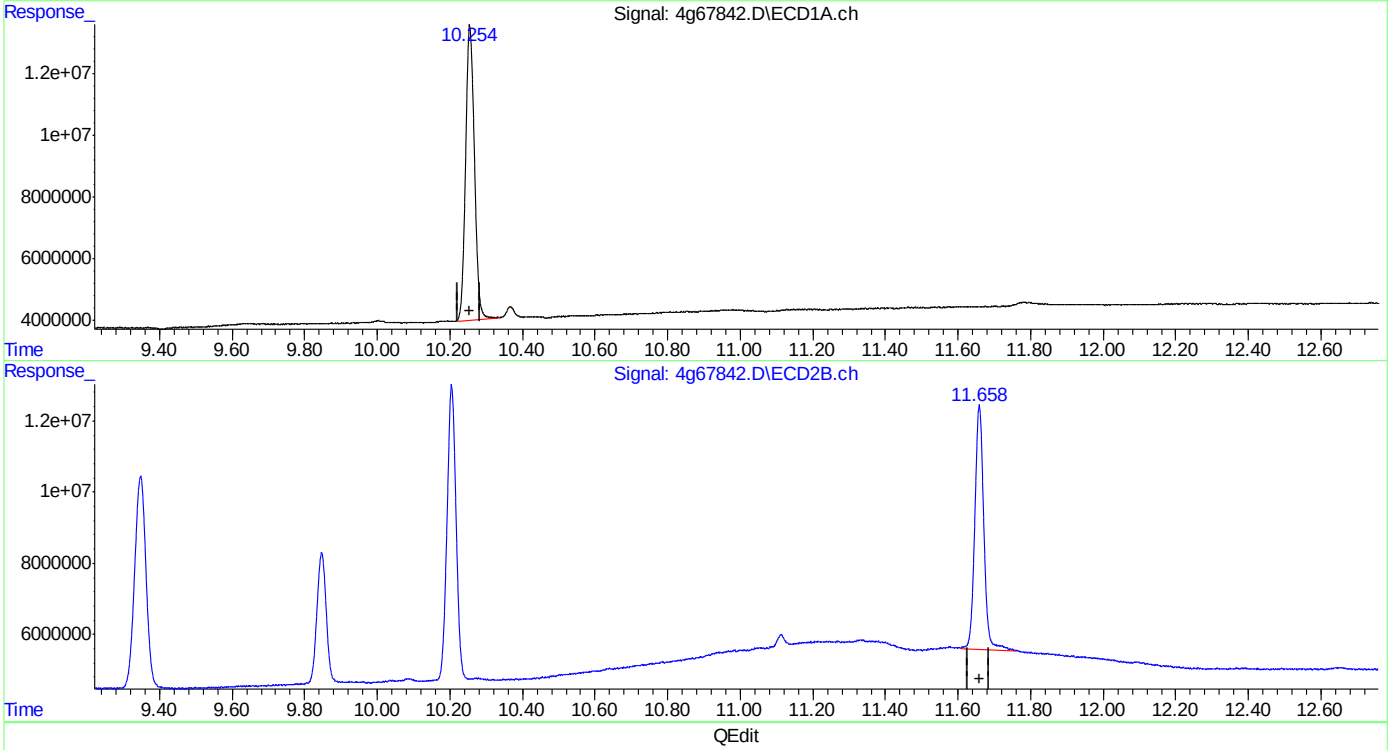
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67842.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 4:57 pm
Operator : dharas
Sample : icv1778-25
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:40:34 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(24) Decachlorobiphenyl (SA)
10.254min 22.161 PPB m
response 161275990

(24) Decachlorobiphenyl #2 (SA)
11.658min 23.749 PPB m
response 117342933

(+) = Expected Retention Time

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67843.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 5:12 pm
Operator : dharas
Sample : icv1778-25
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:46:25 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.798	2.076	476.0E6	416.5E6	50.000	50.000
25) I	1-bromo-2...	1.798	2.076	476.0E6	416.5E6	50.000	50.000
31) I	1-bromo-2...	1.798	2.076	476.0E6	416.5E6	50.000	50.000
	System Monitoring Compounds						
	Target Compounds						
22)	Mirex	8.000	10.161	190.9E6	133.7E6	25.818	25.608
	SemiQuant Compounds - Not Calibrated on this Instrument						

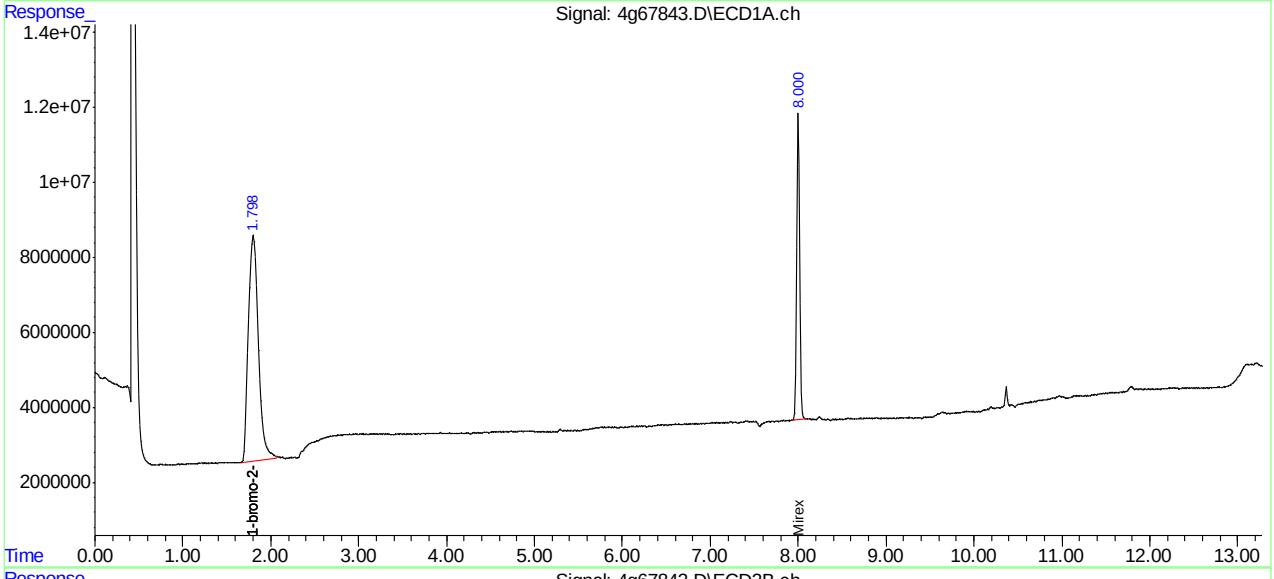
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

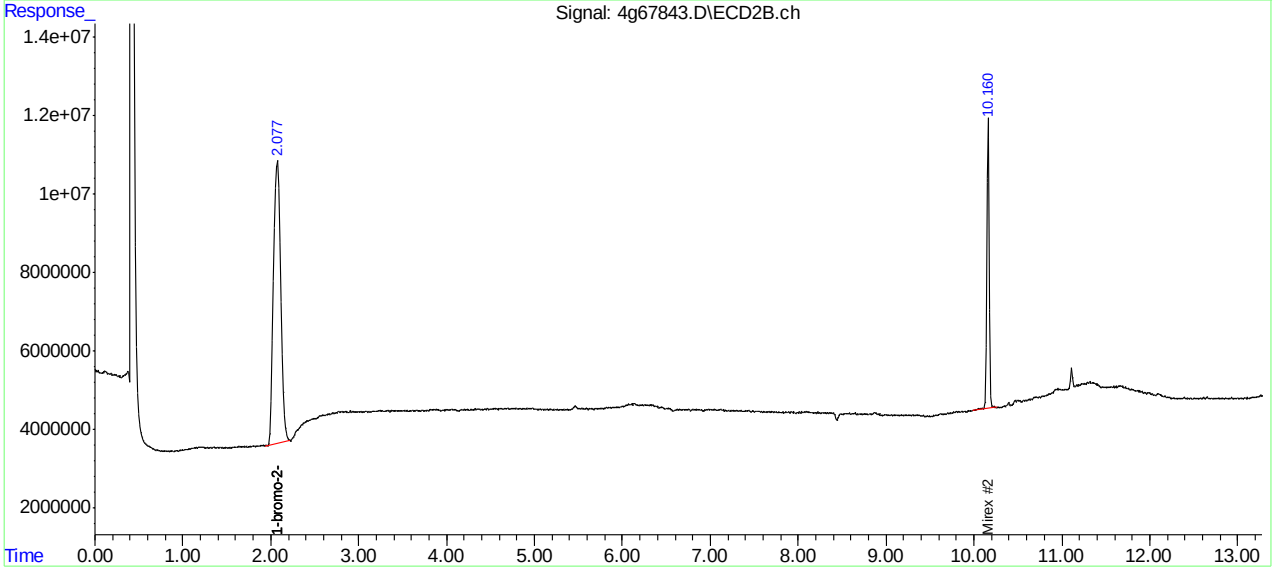
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67843.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 5:12 pm
Operator : dharas
Sample : icv1778-25
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:46:25 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





SGS ACCUTEST JC20098

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
05/04/16 11:11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67844.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 5:27 pm
Operator : dharas
Sample : icv1778-500
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:49:19 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.803	2.077	439.5E6	383.3E6	50.000	50.000
25) I	1-bromo-2...	1.803	2.077	439.5E6	383.3E6	50.000	50.000
31) I	1-bromo-2...	1.803	2.077	439.5E6	383.3E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	2.593	3.113	359.8E6	329.5E6	47.476m	48.809
Spiked Amount		40.000 Range	30 - 150	Recovery	=	118.69%	122.02%
24) SA	Decachlor...	10.255	11.658	328.6E6	215.7E6	46.017m	45.043
Spiked Amount		40.000		Recovery	=	115.04%	112.61%
	Target Compounds						
32)	Chlordane...	3.962	4.767	145.4E6	154.4E6	584.851	540.811
33)	Chlordane...	4.595	5.667	159.1E6	134.0E6	498.659	502.048
34)	Chlordane...	5.389	6.628	516.8E6	468.5E6	480.429	477.267
35)	Chlordane...	5.561	6.861	857.8E6	770.4E6	491.023	483.494m
36)	Chlordane...	6.682	8.374	110.1E6	122.4E6	417.425	480.465m

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

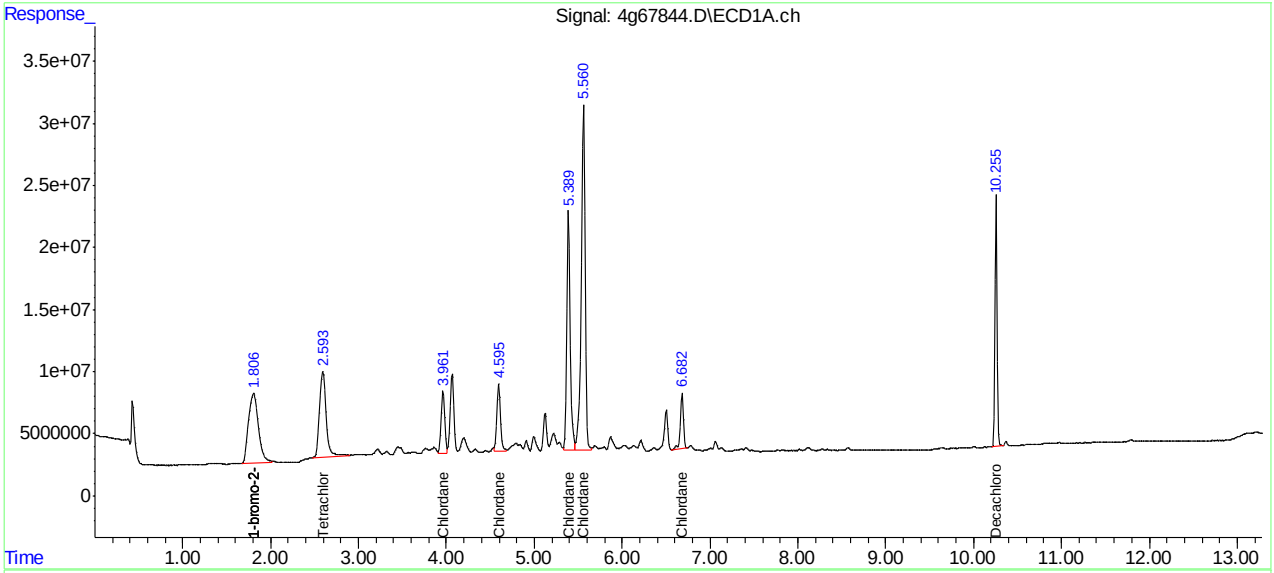
11.6.13 11

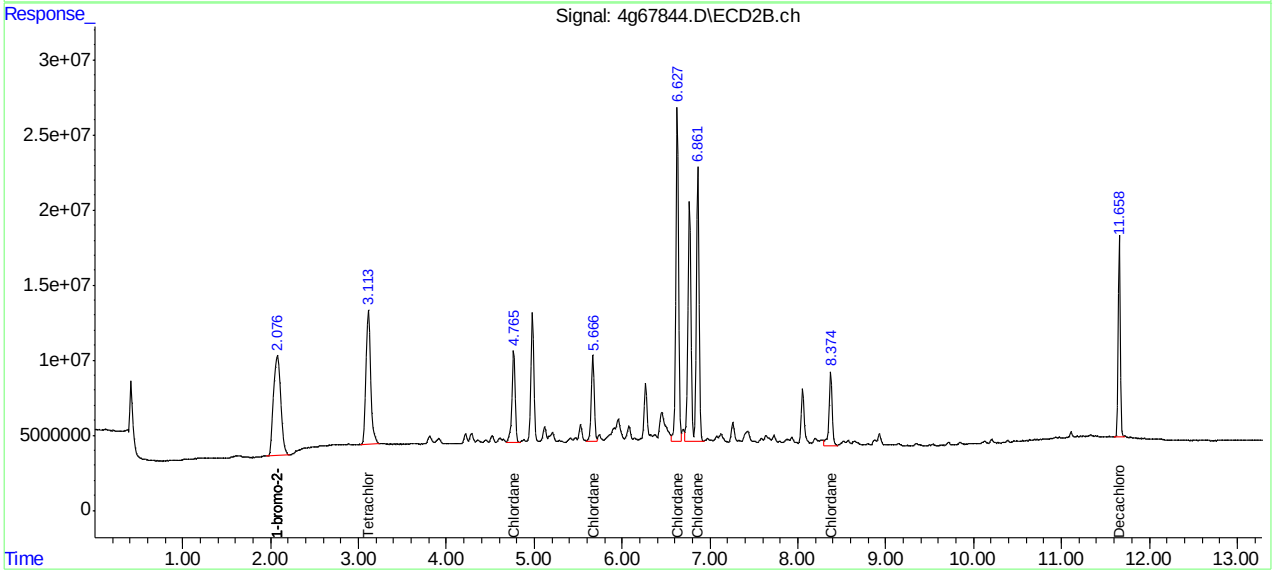
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67844.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 5:27 pm
Operator : dharas
Sample : icv1778-500
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:49:19 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





SGS ACCUTEST JC20098

Manual Integration Approval Summary

Sample Number:	G4G1778-ICV1778	**Method:**	SW846 8081B
Lab FileID:	4G67844.D	**Analyst approved:**	05/03/16 16:01 Joseph Ravino
Injection Time:	05/02/16 17:27	**Supervisor approved:**	05/04/16 11:11 Gwendolyn Burns

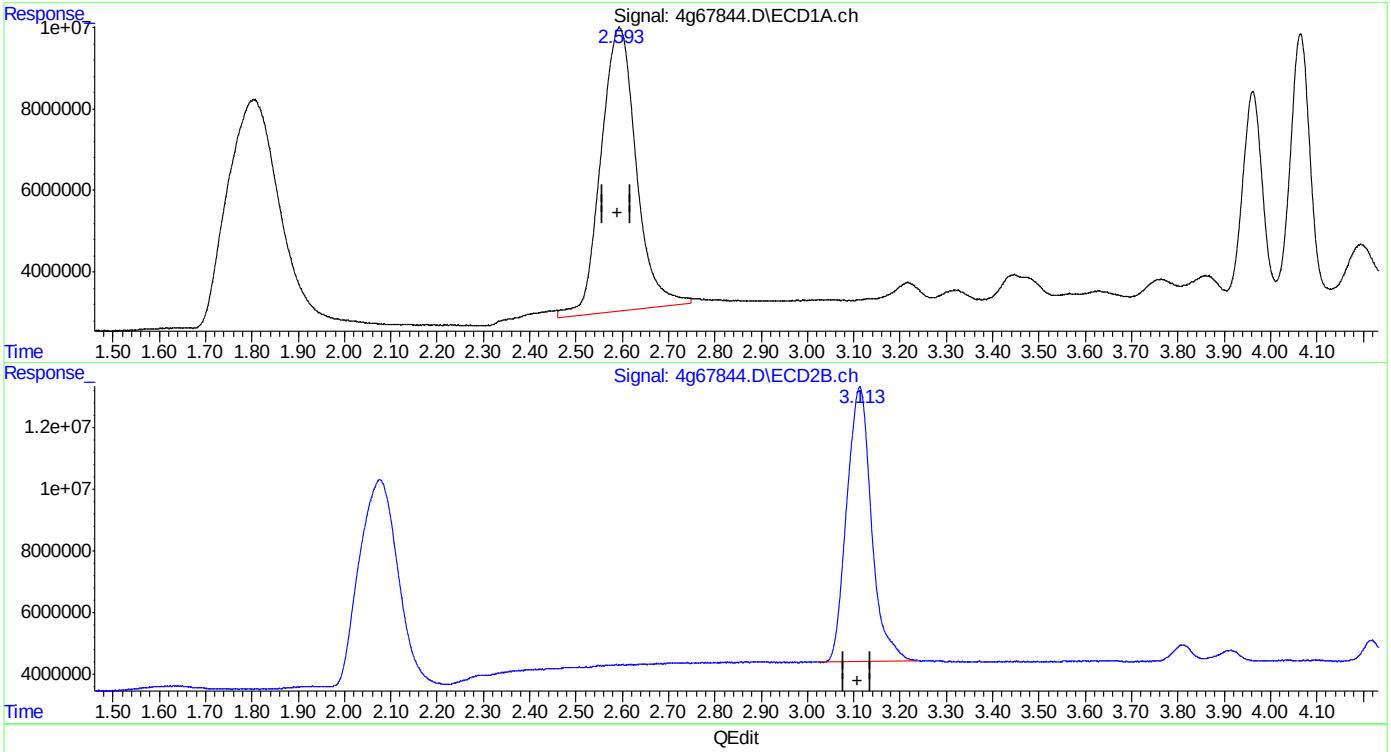
Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrachloro-m-xylene	877-09-8	1	2.59	Poor instrument integration
Chlordane-D		2	6.86	Split peak
Chlordane-E		2	8.37	Poor instrument integration
Decachlorobiphenyl	2051-24-3	1	10.26	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67844.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 5:27 pm
Operator : dharas
Sample : icv1778-500
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:46:43 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



(2) Tetrachloro-m-xylene (SAB)
2.594min 48.835 PPB
response 370119696

(2) Tetrachloro-m-xylene #2 (SAB)
3.113min 48.809 PPB
response 329519867

(+) = Expected Retention Time
4PST1778.M Tue May 03 15:47:00 2016 RPT1

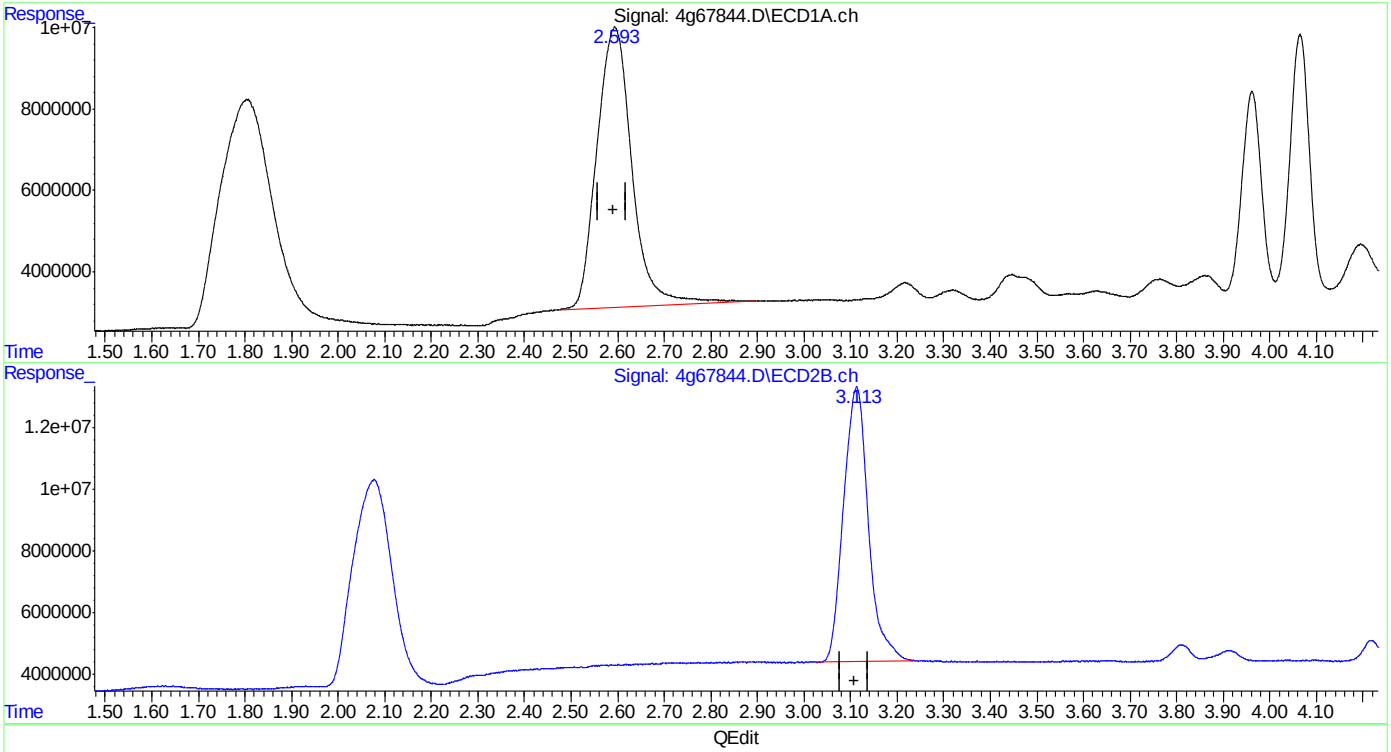
SGS ACCUTEST JC20098

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67844.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 5:27 pm
Operator : dharas
Sample : icv1778-500
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:46:43 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(2) Tetrachloro-m-xylene (SAB)
2.593min 47.476 PPB m
response 359820827

(2) Tetrachloro-m-xylene #2 (SAB)
3.113min 48.809 PPB
response 329519867

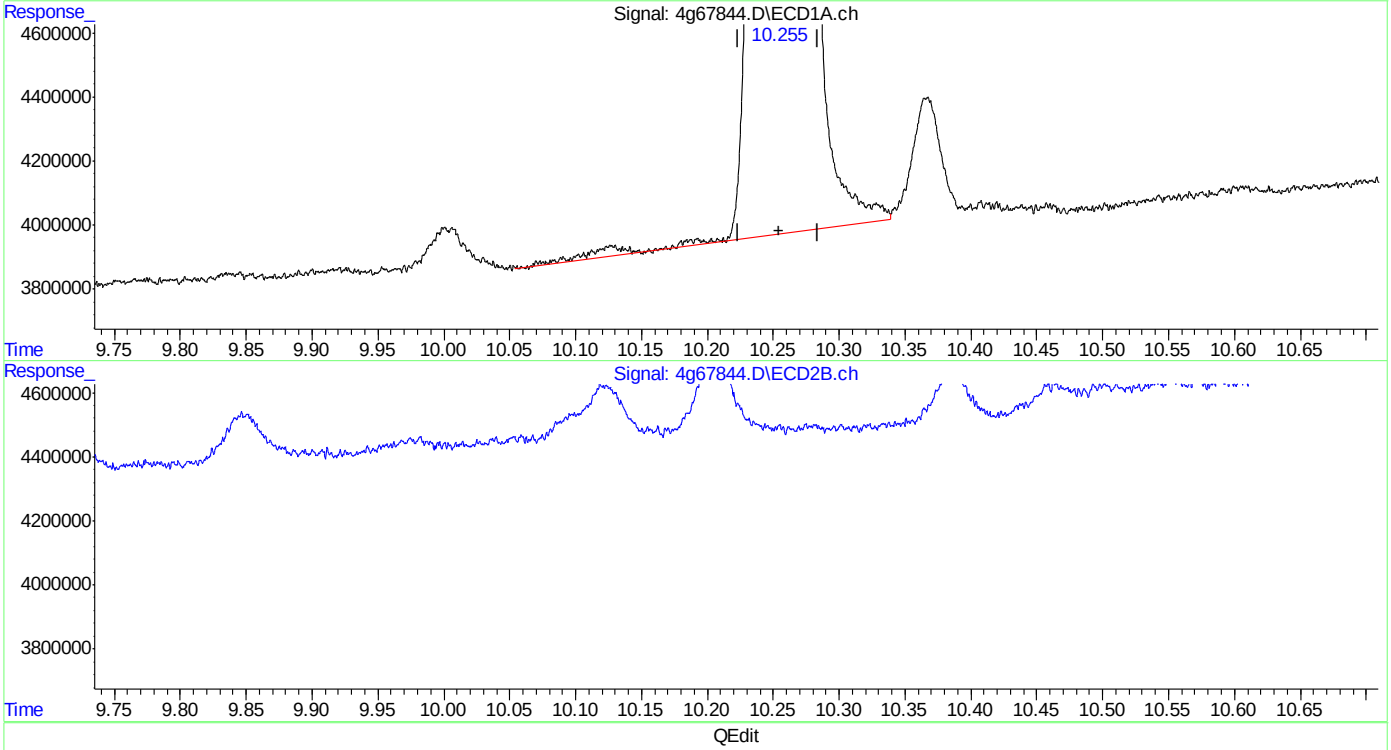
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67844.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 5:27 pm
Operator : dharas
Sample : icv1778-500
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:46:43 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(24) Decachlorobiphenyl (SA)
10.256min 46.239 PPB
response 330233091

(24) Decachlorobiphenyl #2 (SA)
11.658min 45.043 PPB
response 215658476

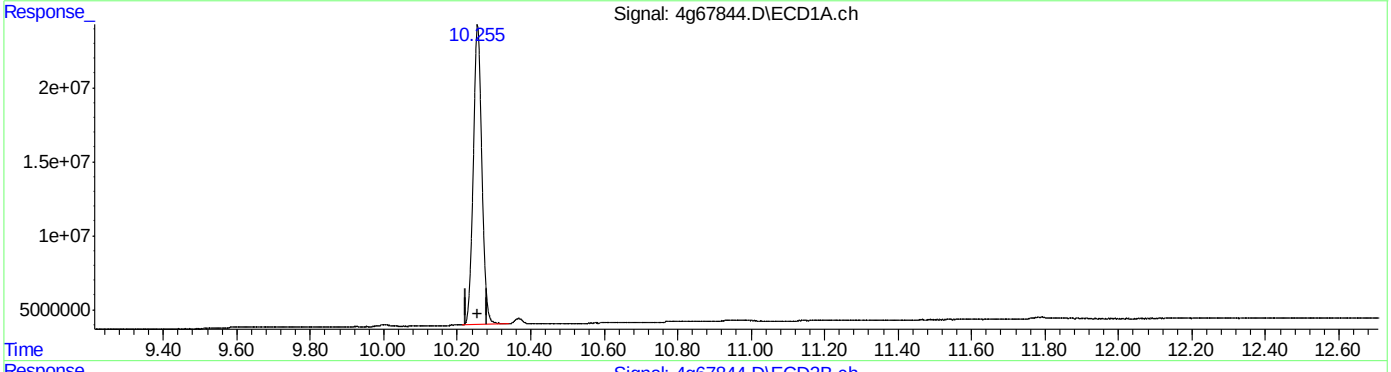
(+) = Expected Retention Time

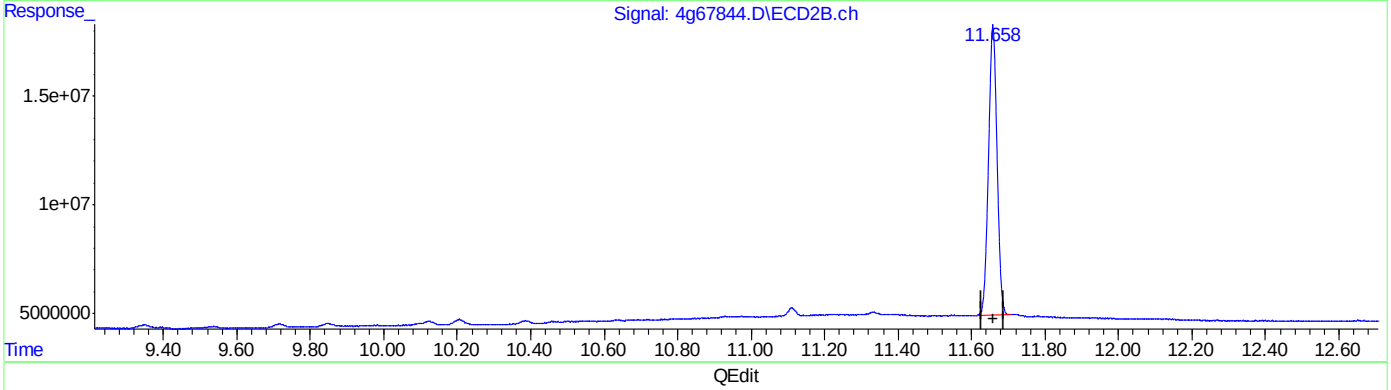
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67844.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 5:27 pm
Operator : dharas
Sample : icv1778-500
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:46:43 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(24) Decachlorobiphenyl (SA)
10.255min 46.017 PPB m
response 328647279

(24) Decachlorobiphenyl #2 (SA)
11.658min 45.043 PPB
response 215658476

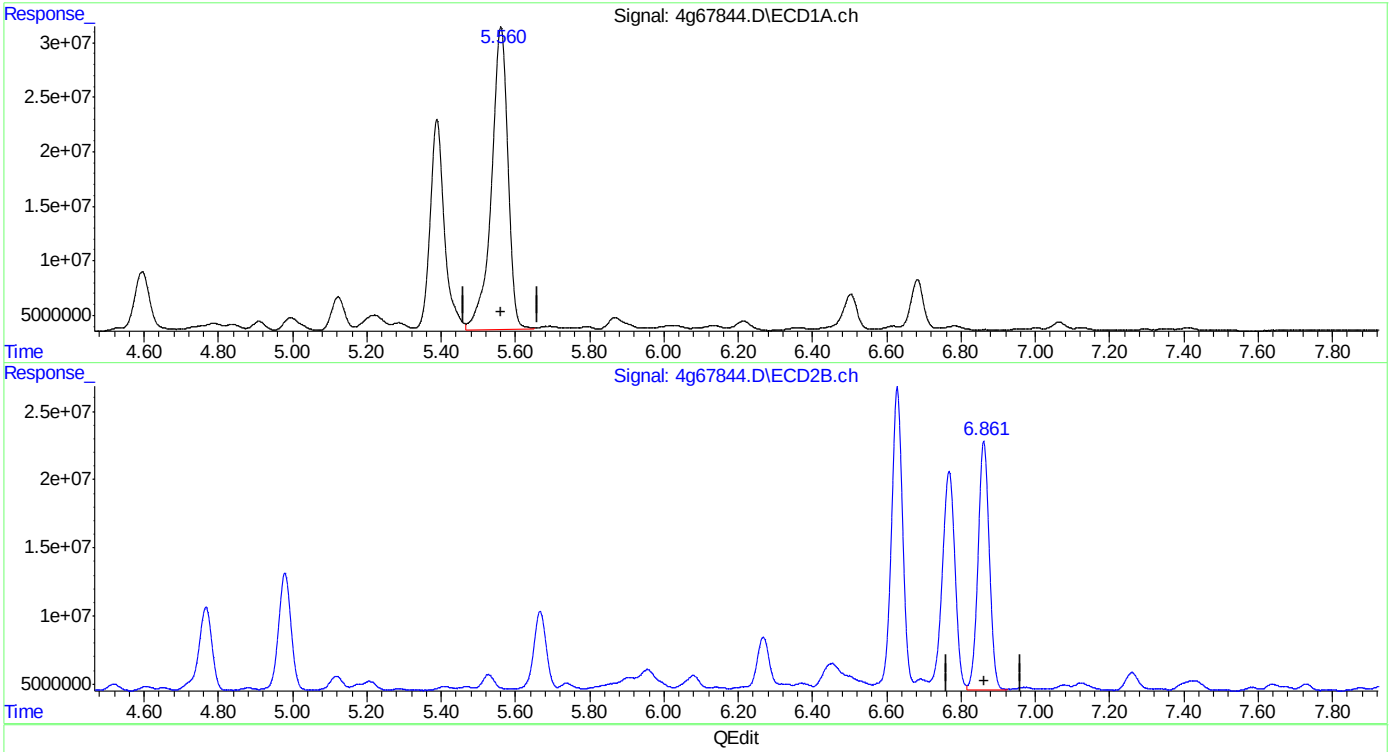
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67844.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 5:27 pm
Operator : dharas
Sample : icv1778-500
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:46:43 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(35) Chlordane {D}
5.561min 491.023 PPB
response 857819158

(35) Chlordane {D} #2
6.861min 241.391 PPB
response 384618387

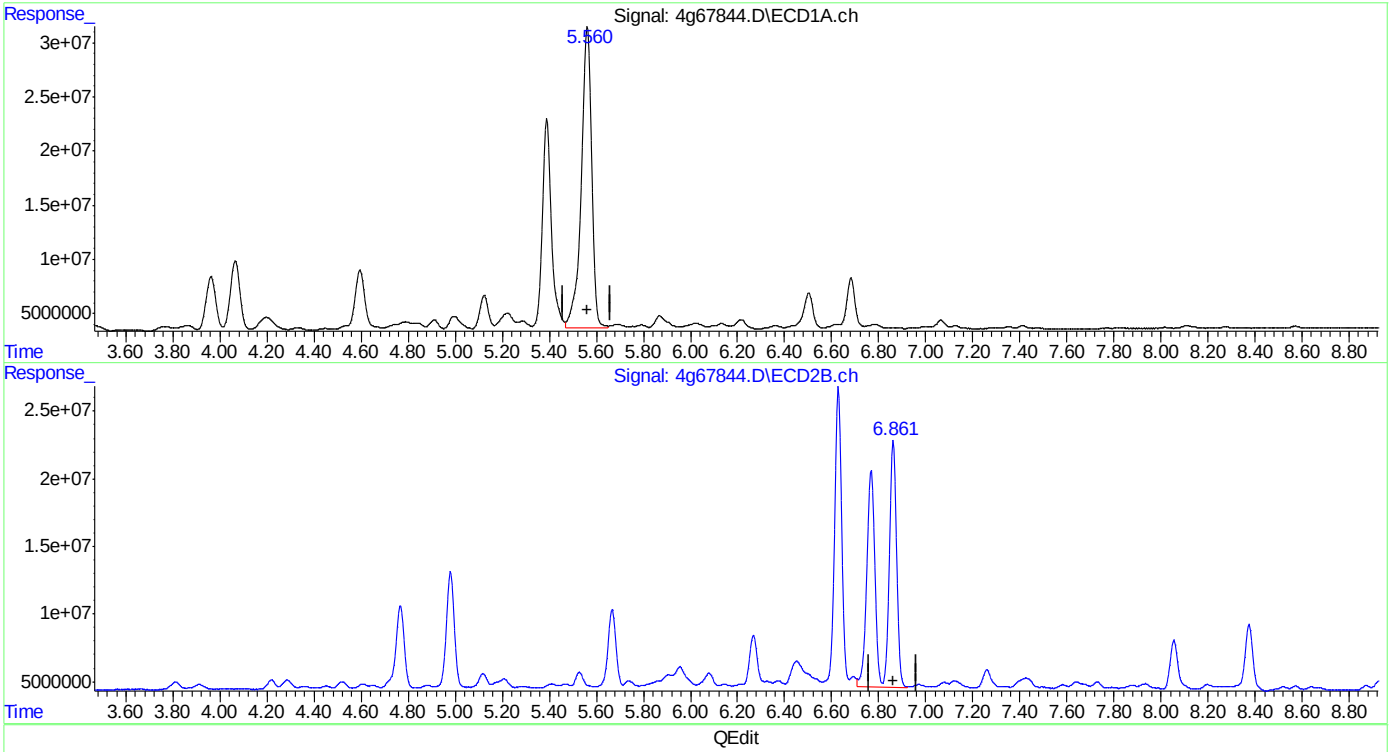
(+) = Expected Retention Time
4PST1778.M Tue May 03 15:48:58 2016 RPT1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67844.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 5:27 pm
Operator : dharas
Sample : icv1778-500
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:46:43 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(35) Chlordane {D}
5.561min 491.023 PPB
response 857819158

(35) Chlordane {D} #2
6.861min 483.494 PPB m
response 770372391

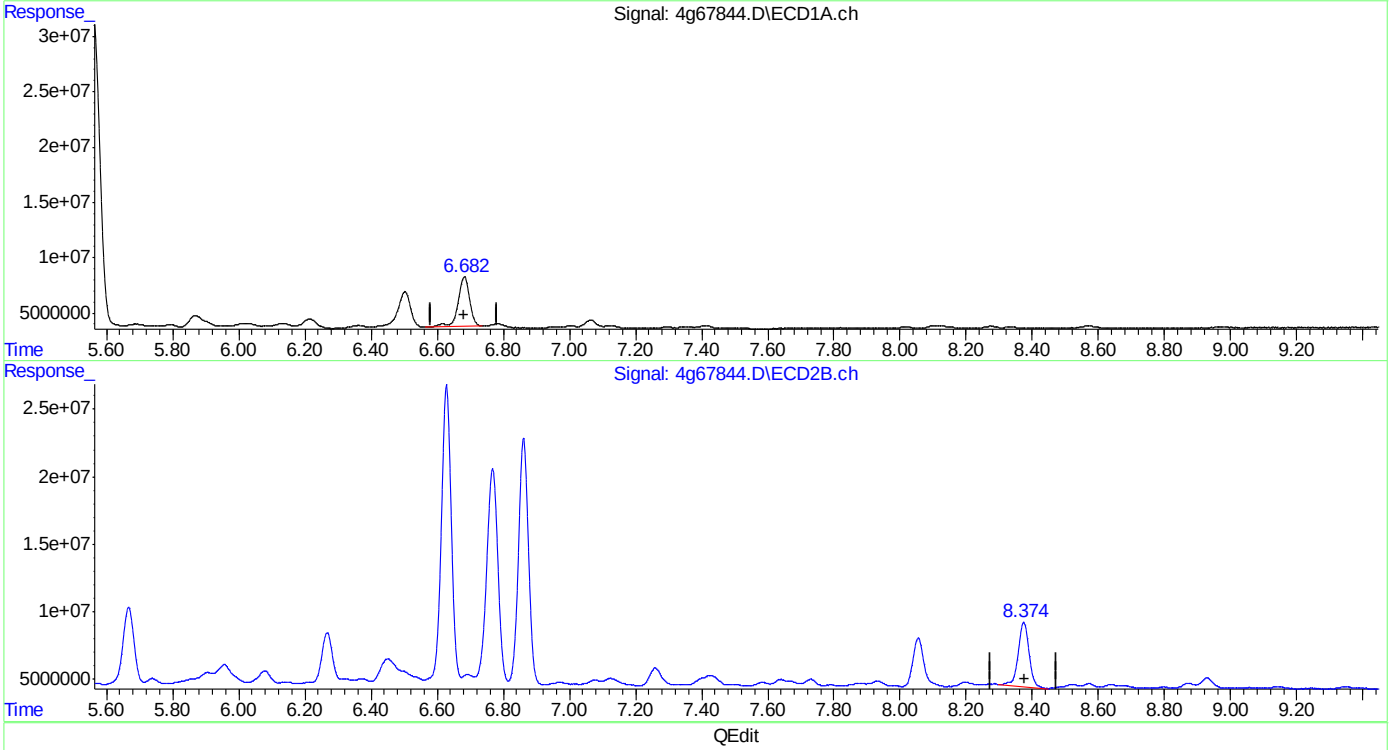
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67844.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 5:27 pm
Operator : dharas
Sample : icv1778-500
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:46:43 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(36) Chlordane {E}
6.682min 417.425 PPB
response 110145191

(36) Chlordane {E} #2
8.374min 424.264 PPB
response 108125507

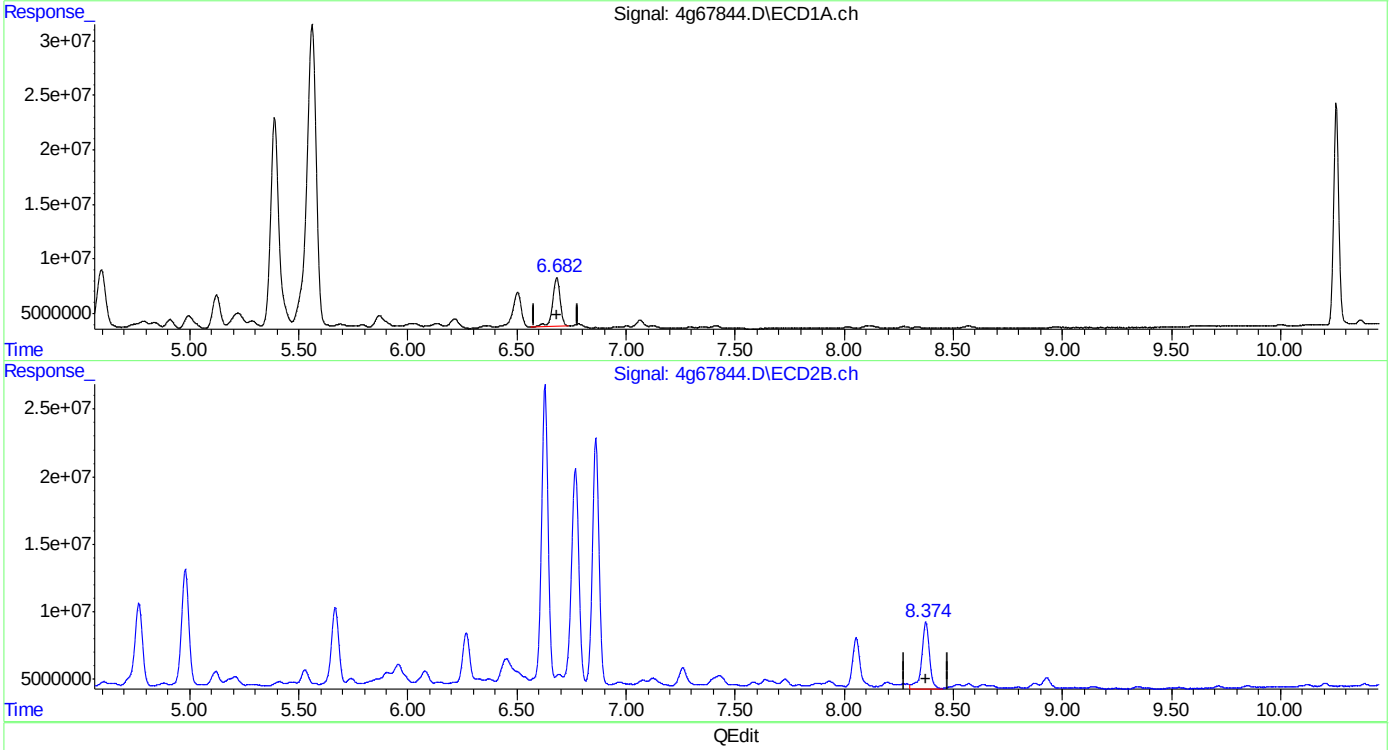
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67844.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 5:27 pm
Operator : dharas
Sample : icv1778-500
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:46:43 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(36) Chlordane {E}
6.682min 417.425 PPB
response 110145191

(36) Chlordane {E} #2
8.374min 480.465 PPB m
response 122448490

(+) = Expected Retention Time
4PST1778.M Tue May 03 15:49:25 2016 RPT1

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
05/04/16 11:11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67845.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 5:43 pm
Operator : dharas
Sample : icv1778-500
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:57:03 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.802	2.078	439.8E6	388.8E6	50.000	50.000
25) I	1-bromo-2...	1.802	2.078	439.8E6	388.8E6	50.000	50.000
31) I	1-bromo-2...	1.802	2.078	439.8E6	388.8E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	2.596	3.112	339.7E6	304.8E6	44.795m	44.512
	Spiked Amount	40.000	Range	30 - 150	Recovery	= 111.99%	111.28%
24) SA	Decachlor...	10.256	11.658	317.4E6	216.6E6	44.418	44.611
	Spiked Amount	40.000			Recovery	= 111.04%	111.53%
	Target Compounds						
26) L8	Toxaphene{A}	6.480	7.374	134.8E6	71828526	471.946	517.994
27) L8	Toxaphene{B}	6.757	8.262	142.9E6	87910102	487.368	535.557
28) L8	Toxaphene{C}	6.925	8.425	193.6E6	141.4E6	492.678	505.345
29) L8	Toxaphene{D}	7.297	8.868	130.3E6	86061044	496.434m	522.195
30) L8	Toxaphene{E}	7.971	9.772	86943512	66083312	497.486	506.616

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

11.6.14 11

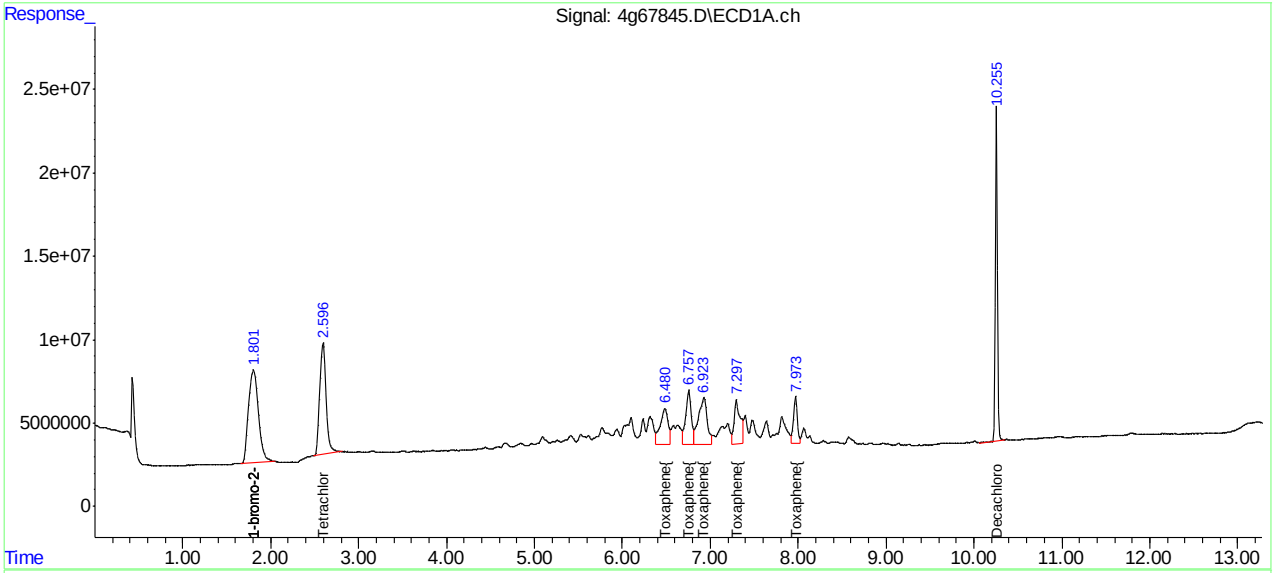
SGS ACCUTEST JC20098

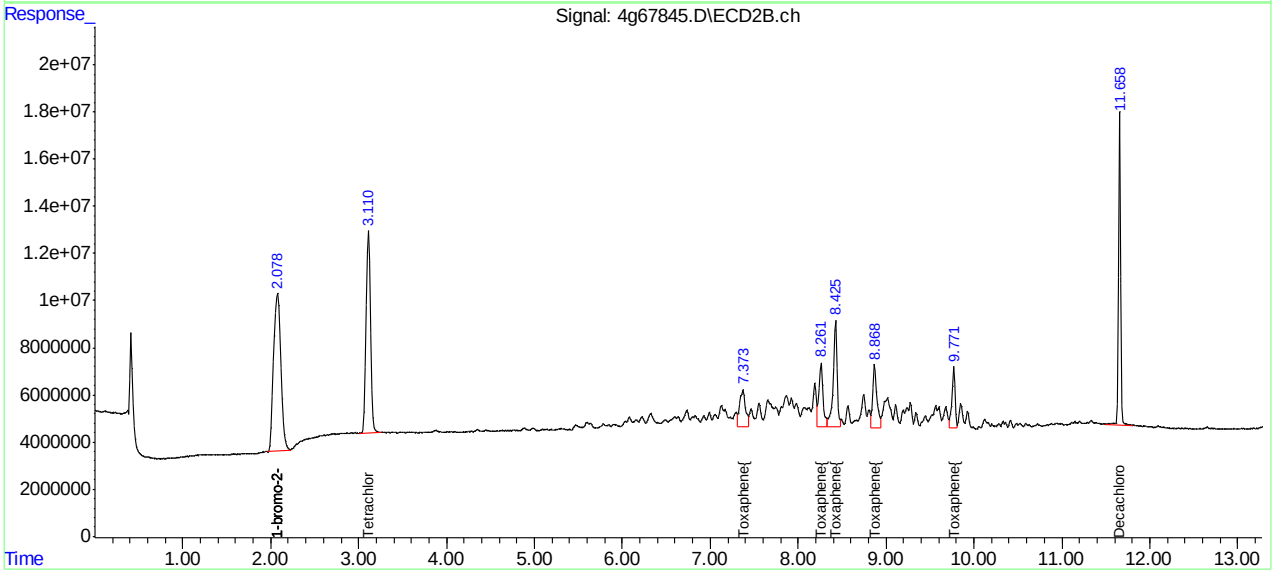
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67845.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 5:43 pm
Operator : dharas
Sample : icv1778-500
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:57:03 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





Manual Integration Approval Summary

Sample Number:	G4G1778-ICV1778	**Method:**	SW846 8081B
Lab FileID:	4G67845.D	**Analyst approved:**	05/03/16 16:01 Joseph Ravino
Injection Time:	05/02/16 17:43	**Supervisor approved:**	05/04/16 11:11 Gwendolyn Burns

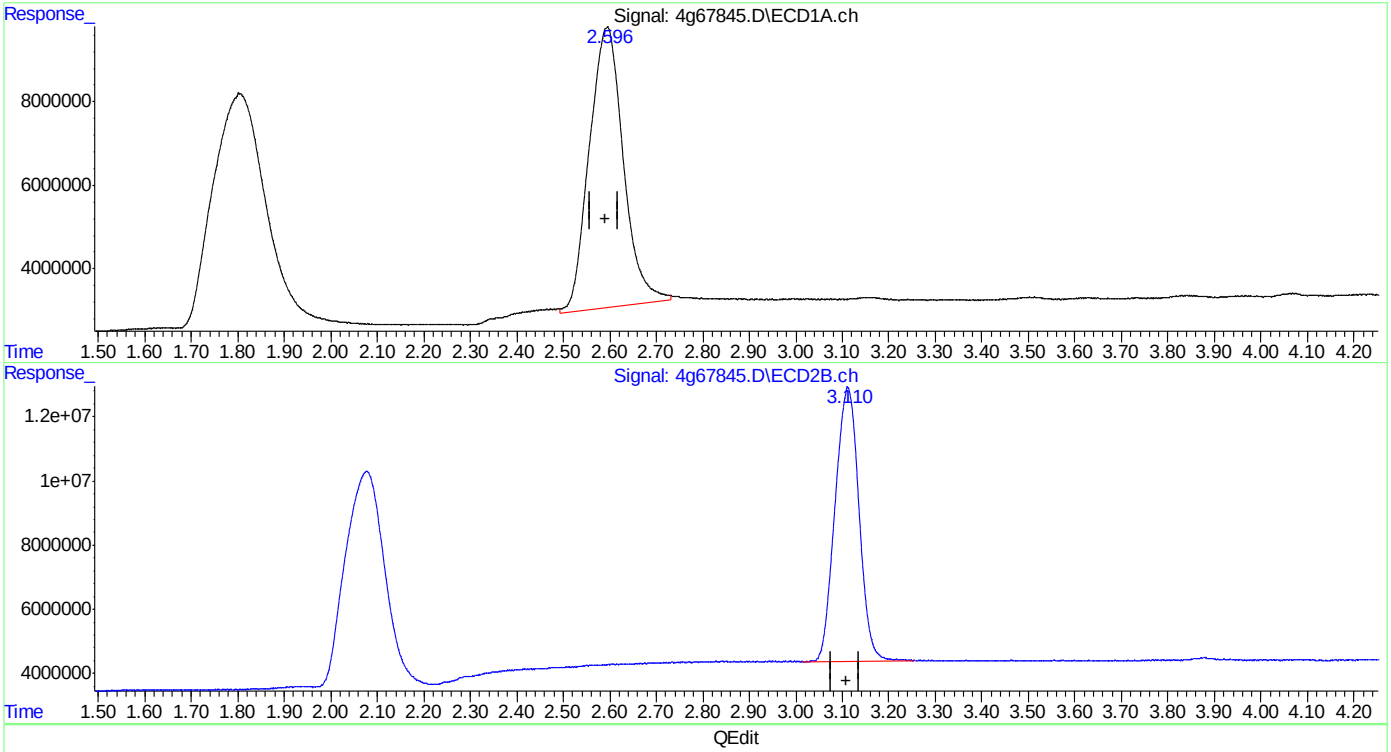
Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrachloro-m-xylene	877-09-8	1	2.60	Poor instrument integration
Toxaphene-D		1	7.30	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67845.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 5:43 pm
Operator : dharas
Sample : icv1778-500
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:51:13 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(2) Tetrachloro-m-xylene (SAB)
2.596min 45.130 PPB
response 342259313

(2) Tetrachloro-m-xylene #2 (SAB)
3.112min 44.512 PPB
response 304771635

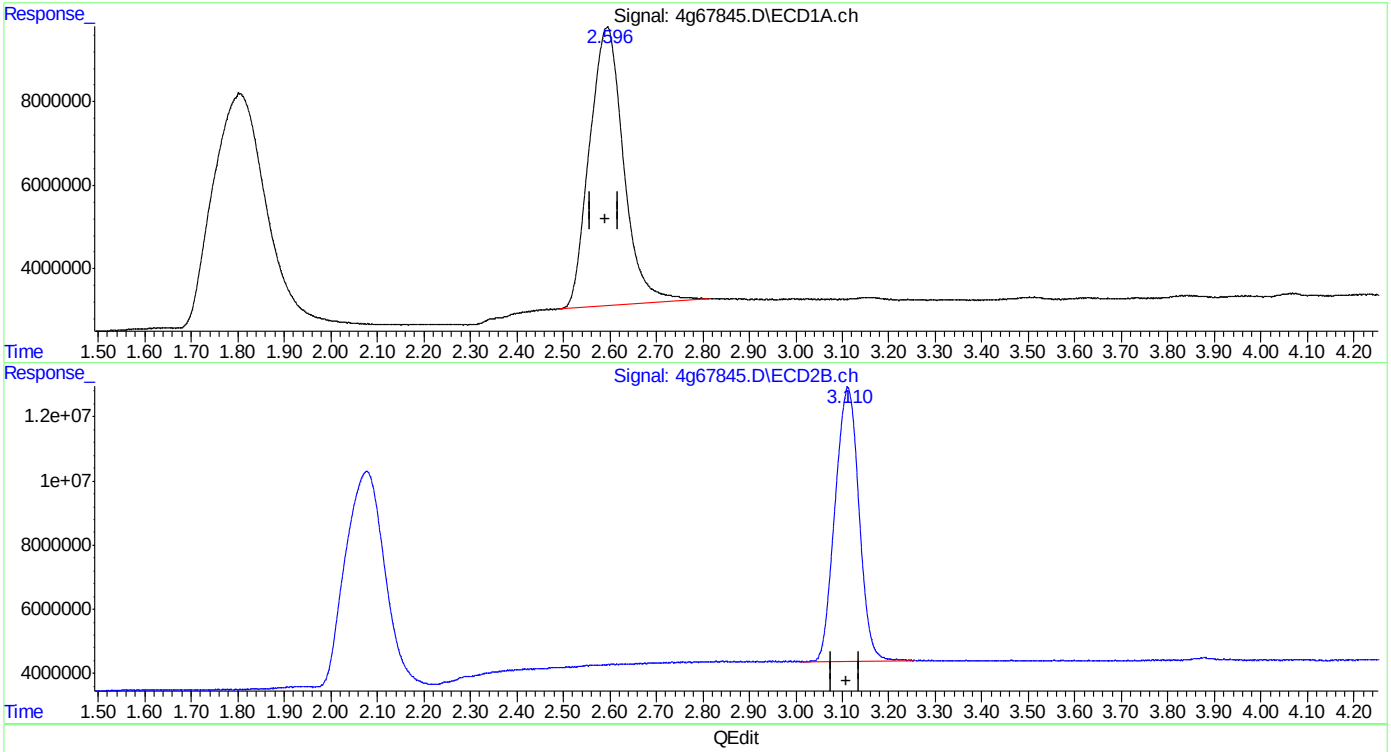
(+) = Expected Retention Time
4PST1778.M Tue May 03 15:51:20 2016 RPT1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67845.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 5:43 pm
Operator : dharas
Sample : icv1778-500
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:51:13 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(2) Tetrachloro-m-xylene (SAB)
2.596min 44.795 PPB m
response 339720589

(2) Tetrachloro-m-xylene #2 (SAB)
3.112min 44.512 PPB
response 304771635

(+) = Expected Retention Time
4PST1778.M Tue May 03 15:51:26 2016 RPT1

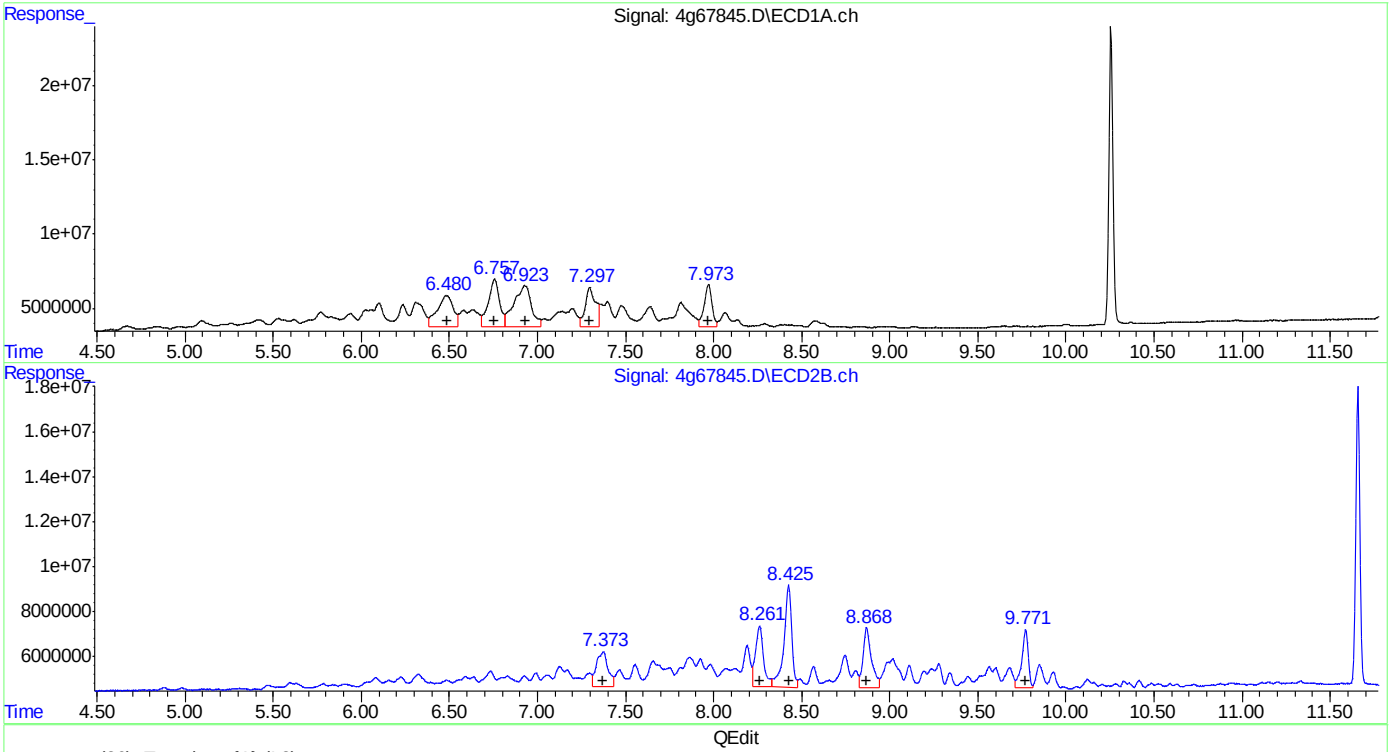
SGS ACCUTEST JC20098

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67845.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 5:43 pm
Operator : dharas
Sample : icv1778-500
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:51:33 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(26) Toxaphene{A} (L8)

R.T.	Response	Conc
6.48	134779811	471.95
6.76	142940362	487.37
6.92	193629010	492.68
7.30	110917152	422.69
7.97	86943512	497.49

(26) Toxaphene{A} #2 (L8)

R.T.	Response	Conc
7.37	71828526	517.99
8.26	87910102	535.56
8.43	141404945	505.35
8.87	86061044	522.19
9.77	66083312	506.62

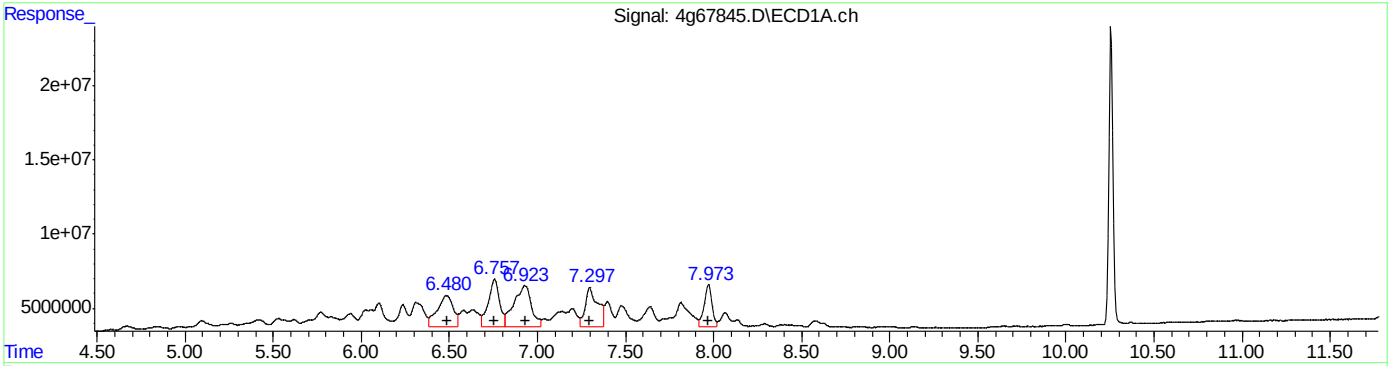
(+) = Expected Retention Time

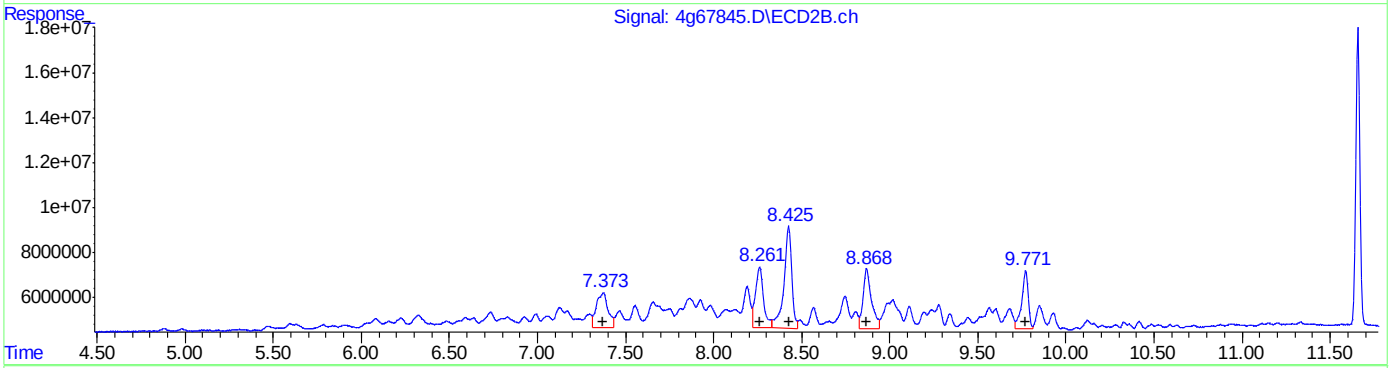
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1778\
Data File : 4g67845.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 May 2016 5:43 pm
Operator : dharas
Sample : icv1778-500
Misc : op93464,g4g1778,100,,,10,1
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 03 15:51:33 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Tue May 03 15:20:10 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(26) Toxaphene{A} (L8)

R.T.	Response	Conc
6.48	134779811	471.95
6.76	142940362	487.37
6.92	193629010	492.68
7.30	130268171	496.43
7.97	86943512	497.49

(26) Toxaphene{A} #2 (L8)

R.T.	Response	Conc
7.37	71828526	517.99
8.26	87910102	535.56
8.43	141404945	505.35
8.87	86061044	522.19
9.77	66083312	506.62

(+) = Expected Retention Time

SGS ACCUTEST JC20098

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
05/13/16 12:49

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1787\
Data File : 4g68206.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 May 2016 10:24 pm
Operator : dharas
Sample : cc1778-50
Misc : op93765,g4g1787,100,,,10,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 13 08:28:17 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Thu May 12 17:22:36 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.829	2.089	456.8E6	384.8E6	50.000	50.000
25) I	1-bromo-2...	1.829	2.089	456.8E6	384.8E6	50.000	50.000
31) I	1-bromo-2...	1.829	2.089	456.8E6	384.8E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	2.603f	3.115	391.7E6	336.8E6	49.732m	49.692
Spiked Amount		40.000 Range	30 - 150	Recovery	=	124.33%	124.23%
24) SA	Decachlor...	10.235	11.633	391.5E6	237.0E6	52.748	49.319
Spiked Amount		40.000		Recovery	=	131.87%	123.30%
	Target Compounds						
3) A	alpha-BHC	3.160	3.868	553.2E6	505.7E6	51.330	51.042
4) MA	gamma-BHC	3.503	4.344	486.3E6	457.7E6	51.603	51.984
5) MA	Heptachlor	3.829	4.968	478.4E6	453.2E6	54.085	49.965
6) B	beta-BHC	3.614	4.441	241.2E6	204.5E6	53.432	51.287
7) B	delta-BHC	4.060	4.871	455.4E6	436.3E6	53.054	53.094
8) MB	Aldrin	4.431	5.451	476.9E6	448.8E6	52.829	50.228
9) B	Heptachlo...	5.192	6.311	442.9E6	405.4E6	54.917	50.243
10) B	gamma-Chl...	5.374	6.609	450.8E6	408.8E6	55.908	52.419
11) B	alpha-Chl...	5.555	6.840	447.2E6	392.9E6	51.441	50.169
12) A	Endosulfan I	5.738	6.945	510.2E6	382.5E6	57.064	51.154
13) B	4,4'-DDE	5.687	7.099	365.1E6	409.4E6	45.294	52.414
14) MA	Dieldrin	6.075	7.392	472.0E6	414.6E6	55.677	53.166
15) MA	Endrin	6.412	7.911	371.6E6	319.1E6	46.044	45.910
16) A	4,4'-DDD	6.568f	8.071	352.0E6	330.7E6	51.535	52.400
17) B	Endosulfa...	6.753	8.268	443.5E6	358.6E6	57.107	52.184
18) MA	4,4'-DDT	6.987	8.614	260.3E6	284.2E6	47.161	51.519
19) B	Endrin Al...	7.387	8.845	386.4E6	293.7E6	58.939	56.272
20) B	Endosulfa...	8.079	9.320	378.3E6	297.2E6	53.149	51.676
21) A	Methoxychlor	7.799	9.825	150.3E6	139.9E6	49.385	46.681
22)	Mirex	7.976	10.138	365.1E6	242.0E6	51.434	50.161
23) B	Endrin Ke...	8.541	10.182	472.3E6	351.3E6	57.368	55.639

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

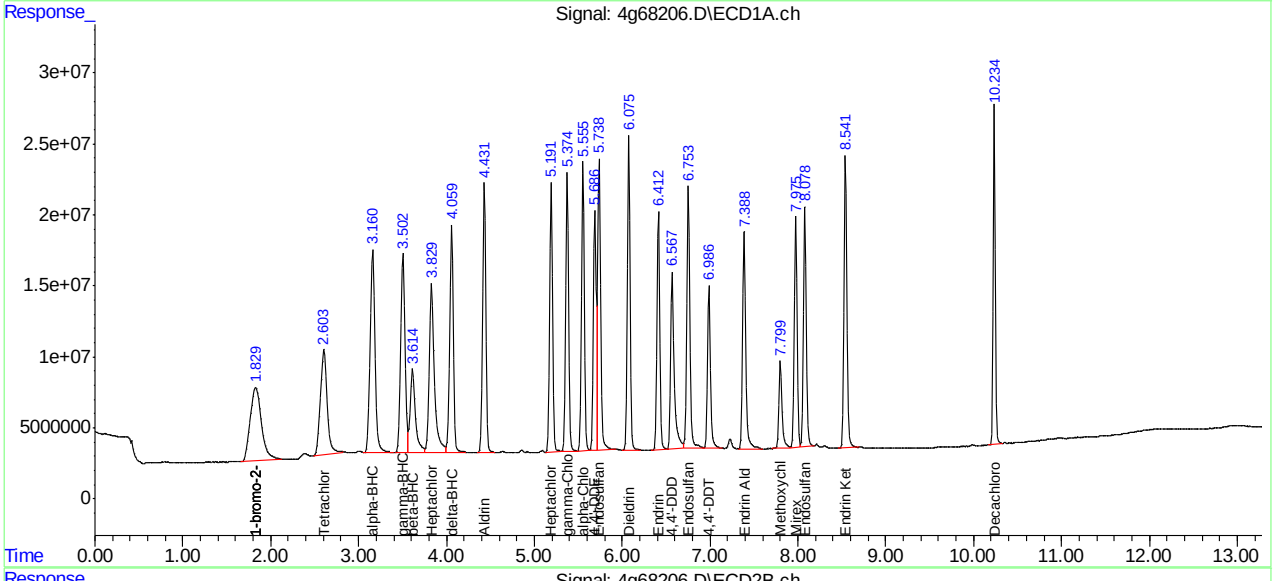
11.6.15 11

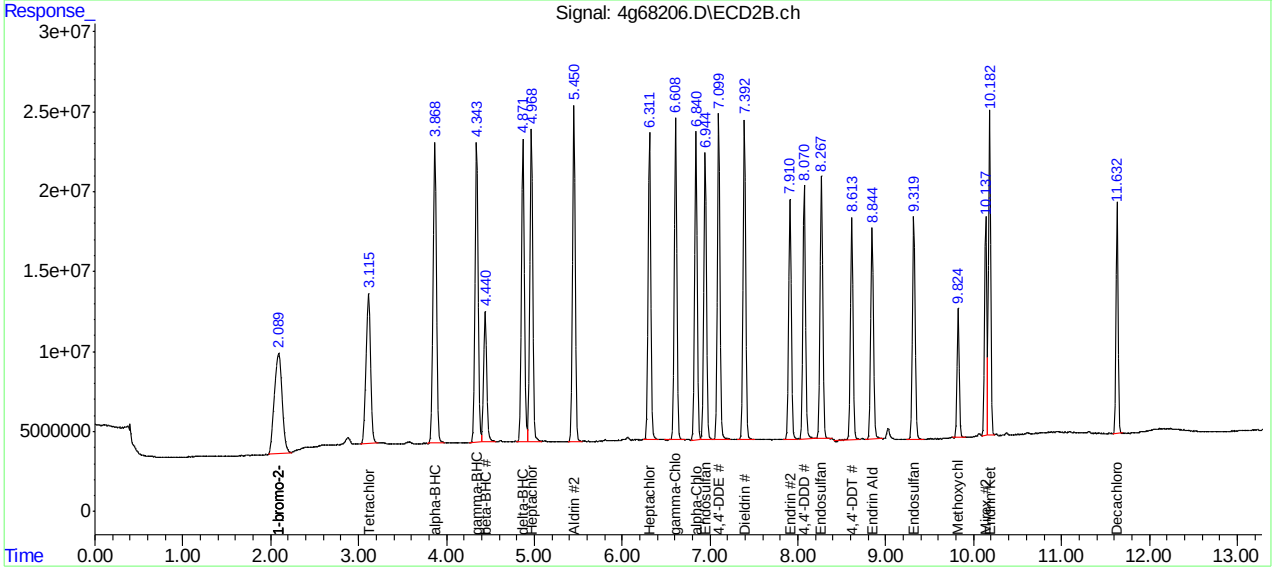
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1787\
Data File : 4g68206.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 May 2016 10:24 pm
Operator : dharas
Sample : cc1778-50
Misc : op93765,g4g1787,100,,,10,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 13 08:28:17 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Thu May 12 17:22:36 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





SGS 1314 of 1424 ACCUTEST JC20098

11.6.15 11

Manual Integration Approval Summary

Sample Number:	G4G1787-CC1778	**Method:**	SW846 8081B
Lab FileID:	4G68206.D	**Analyst approved:**	05/13/16 12:05 Thomas Lally
Injection Time:	05/12/16 22:24	**Supervisor approved:**	05/13/16 12:49 Gwendolyn Burns

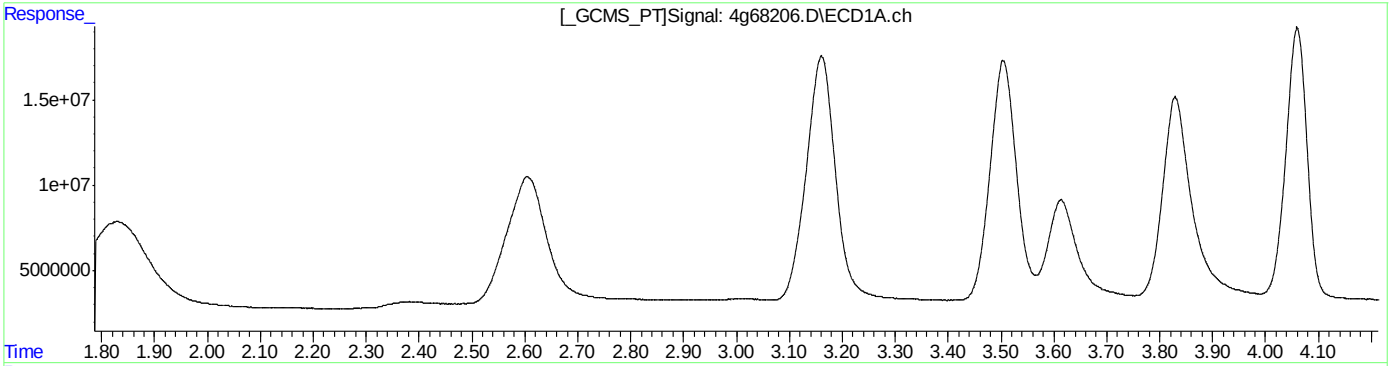
Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrachloro-m-xylene	877-09-8	1	2.60	Poor instrument integration

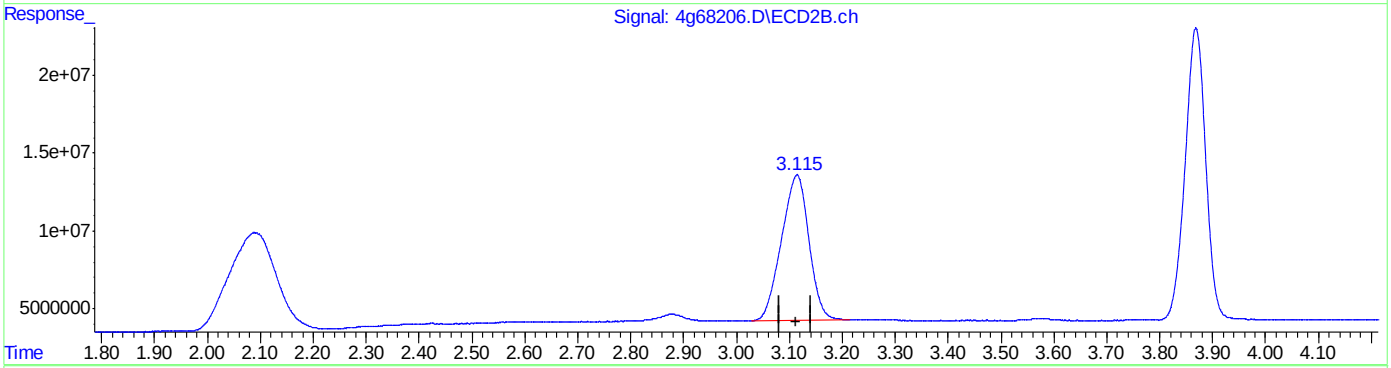
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1787\
Data File : 4g68206.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 May 2016 10:24 pm
Operator : dharas
Sample : cc1778-50
Misc : op93765,g4g1787,100,,,10,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 13 08:27:40 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Thu May 12 17:22:36 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(2) Tetrachloro-m-xylene (SAB)
0.000min 0.000 PPB
response 0

(2) Tetrachloro-m-xylene #2 (SAB)
3.115min 49.692 PPB
response 336756518

(+) = Expected Retention Time

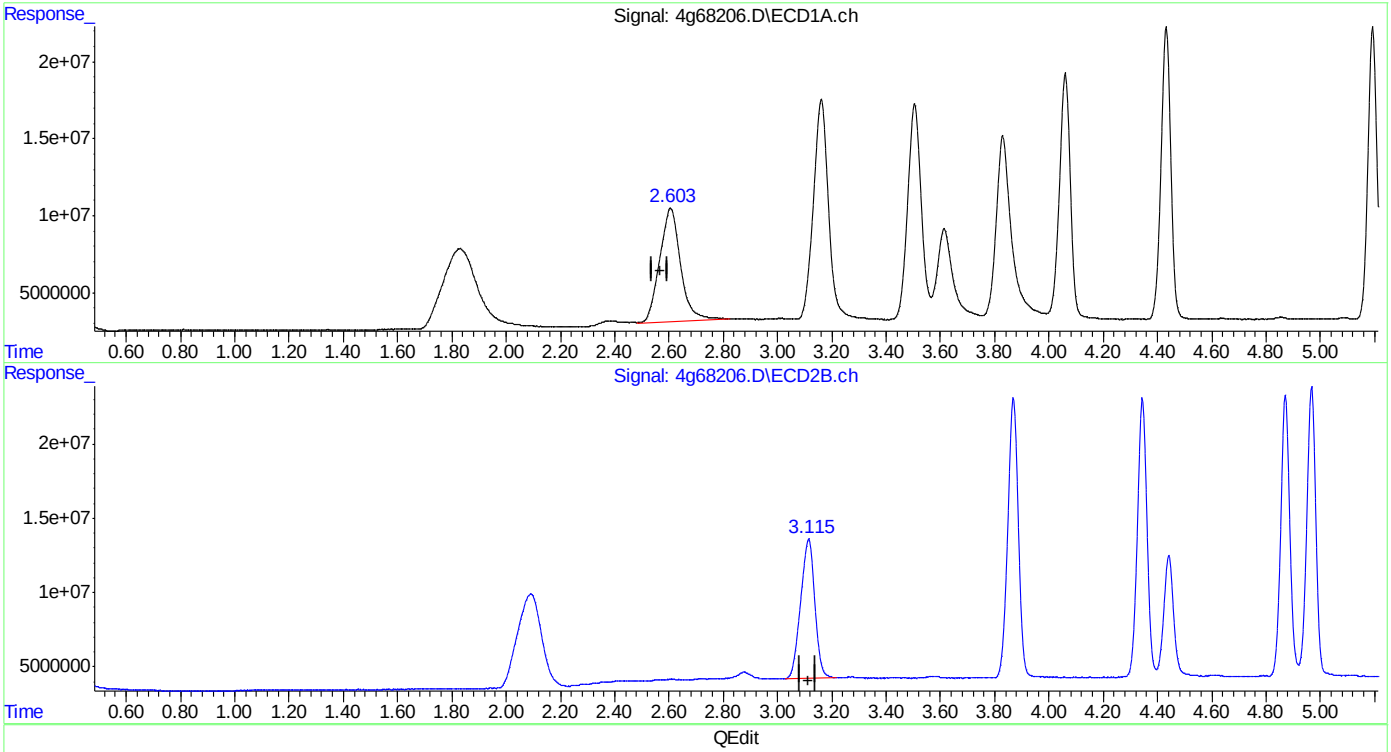
SGS ACCUTEST JC20098

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1787\
Data File : 4g68206.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 May 2016 10:24 pm
Operator : dharas
Sample : cc1778-50
Misc : op93765,g4g1787,100,,,10,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 13 08:27:40 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1778.M
Quant Title : PEST/PCB
QLast Update : Thu May 12 17:22:36 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



(2) Tetrachloro-m-xylene (SAB)
2.603min 49.732 PPB m
response 391702392

(2) Tetrachloro-m-xylene #2 (SAB)
3.115min 49.692 PPB
response 336756518

(+) = Expected Retention Time

SGS ACCUTEST JC20098

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 04/18/16 14:12

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34130.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 3:49 pm
Operator : dharas
Sample : ic987-1
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 11:17:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.314	1.584	130.4E6	42608349	50.000	50.000
	System Monitoring Compounds						
2)	SAB Tetrachlo...	1.987	2.475	2576583	827902	1.118m	1.051m
	Spiked Amount 40.000	Range	30 - 150	Recovery	=	2.80%#	2.63%#
24)	SAB Decachlor...	9.925	11.764	2333032	643637	1.134	1.107
	Spiked Amount 40.000			Recovery	=	2.83%	2.77%
	Target Compounds						
3) A	alpha-BHC	2.500	3.182	2794596	1037508	0.967m	1.076
4) MA	gamma-BHC	2.816	3.635	2684360	984313	1.002	1.104
5) MA	Heptachlor	3.342	4.243	2907588	1127078	1.109	1.309
6) B	beta-BHC	2.896	3.726	1435856	516127	1.084m	1.168m
7) B	delta-BHC	3.088	4.143	2520045	949446	1.052	1.185
8) MB	Aldrin	3.694	4.720	2673148	1020760	1.081	1.222
9) B	Heptachlo...	4.445	5.602	2533344	891848	1.079	1.139m
10) B	gamma-Chl...	4.619	5.907	2568340	900104	1.066	1.176
11) B	alpha-Chl...	4.801	6.152	2584992	926584	1.092	1.208
12) A	Endosulfan I	4.982	6.251	2584666	934043	1.070	1.250
13) B	4,4'-DDE	4.930	6.450	2093929	845347	1.154	1.227
14) MA	Dieldrin	5.326	6.721	2496162	917148	1.088	1.197
15) MA	Endrin	5.669	7.267	2231160	820226	1.074	1.212
16) A	4,4'-DDD	5.819	7.482f	1856952	554689	1.176	0.878 #
17) B	Endosulfa...	6.009	7.651	2365736	802241	1.136	1.147
18) MA	4,4'-DDT	6.269	8.067	2028872	611344	1.218	1.460
19) B	Endrin Al...	6.683	8.276f	1963656	680376	1.167	1.208
20) B	Endosulfa...	7.419	8.792	2156792	757211	1.204	1.289
21) A	Methoxychlor	7.134f	9.448	1359857	297463	1.439	1.343m
22)	Mirex	7.268	9.753f	2186568	811332	1.112	1.361m
23) B	Endrin Ke...	7.893	9.838f	2459754	857280	1.257	1.365m

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

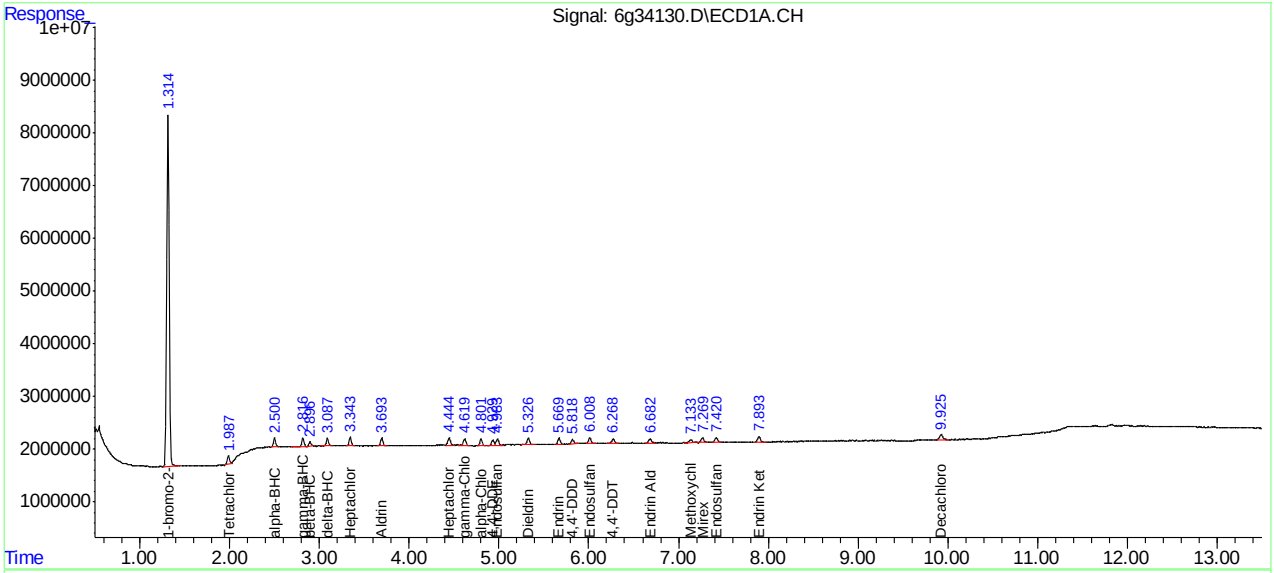
11.6.16 11

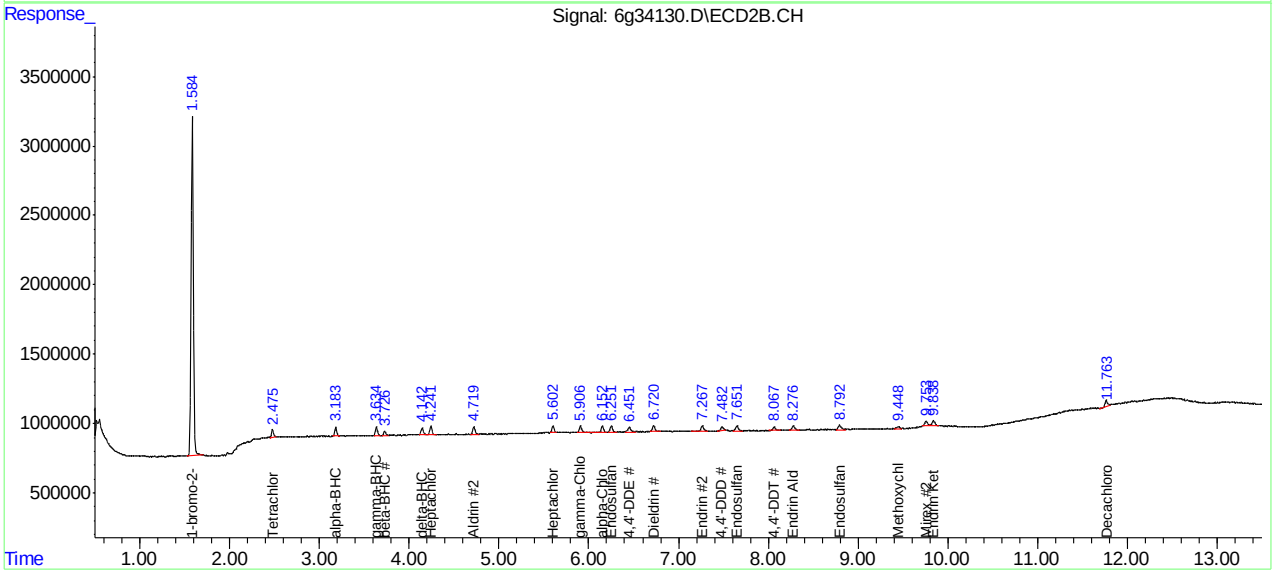
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34130.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 3:49 pm
Operator : dharas
Sample : ic987-1
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 11:17:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





Manual Integration Approval Summary

Sample Number:	G6G987-IC987	**Method:**	SW846 8081B
Lab FileID:	6G34130.D	**Analyst approved:**	04/18/16 12:23 Dhara Saparia
Injection Time:	04/14/16 15:49	**Supervisor approved:**	04/18/16 14:12 Gwendolyn Burns

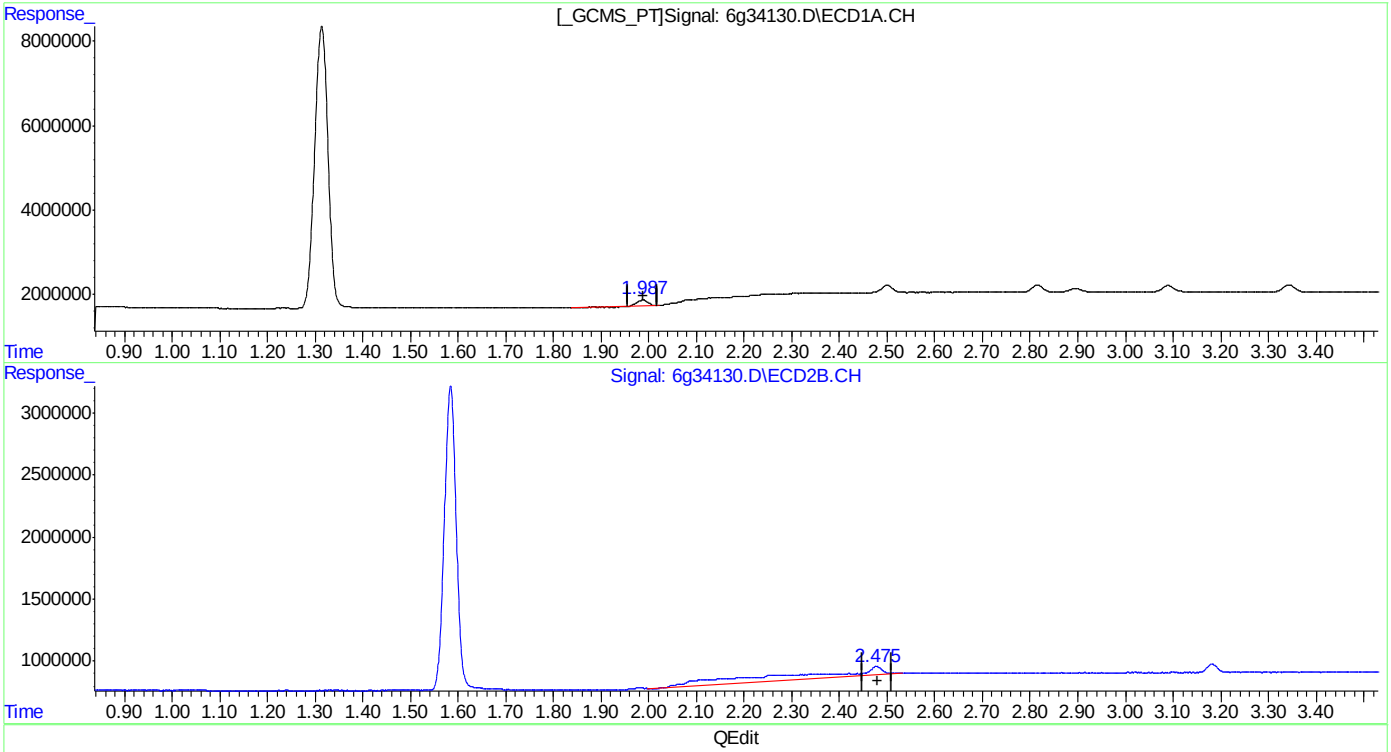
Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrachloro-m-xylene	877-09-8	1	1.99	Poor instrument integration
Tetrachloro-m-xylene	877-09-8	2	2.48	Poor instrument integration
alpha-BHC	319-84-6	1	2.50	Poor instrument integration
beta-BHC	319-85-7	1	2.90	Poor instrument integration
beta-BHC	319-85-7	2	3.73	Poor instrument integration
Heptachlor epoxide	1024-57-3	2	5.60	Poor instrument integration
Methoxychlor	72-43-5	2	9.45	Poor instrument integration
Mirex	2385-85-5	2	9.75	Poor instrument integration
Endrin ketone	53494-70-5	2	9.84	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34130.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 3:49 pm
Operator : dharas
Sample : ic987-1
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 10:51:51 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um



QEdit

(2) Tetrachloro-m-xylene (SAB)
1.987min 0.787PPB
response 1813361

(2) Tetrachloro-m-xylene #2 (SAB)
2.477min 12.157PPB
response 9572770

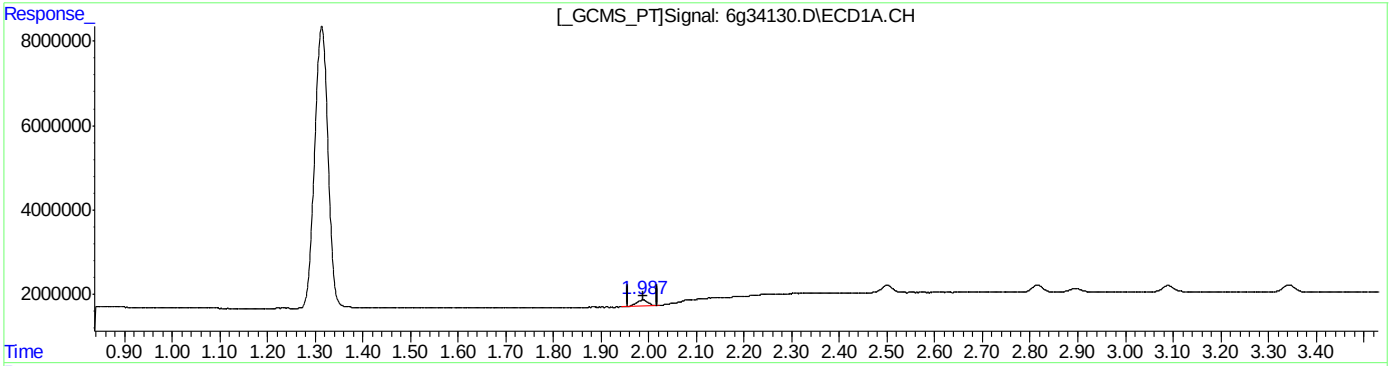
(+) = Expected Retention Time

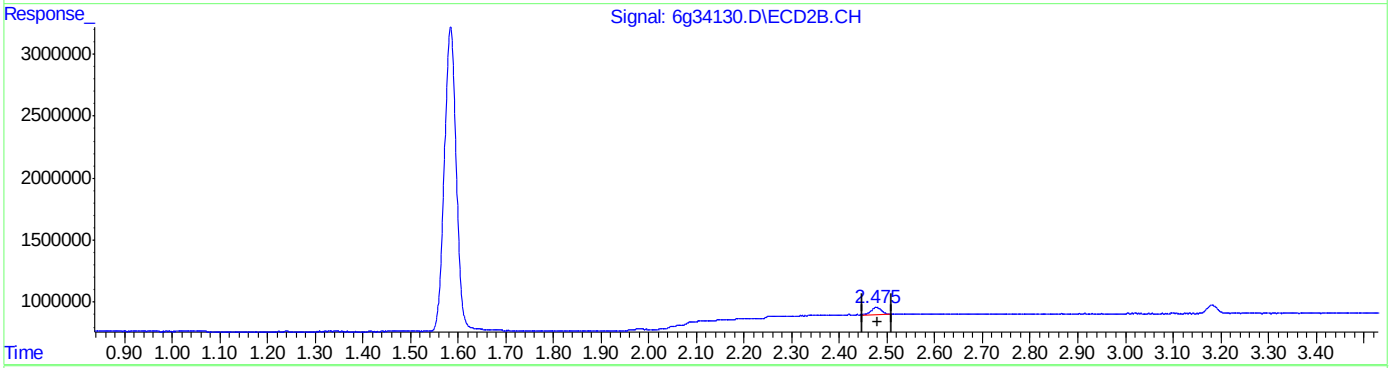
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34130.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 3:49 pm
Operator : dharas
Sample : ic987-1
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 10:51:51 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





QEdit

(2) Tetrachloro-m-xylene (SAB)
1.987min 1.118PPB m
response 2576583

(2) Tetrachloro-m-xylene #2 (SAB)
2.475min 1.051PPB m
response 827902

(+) = Expected Retention Time

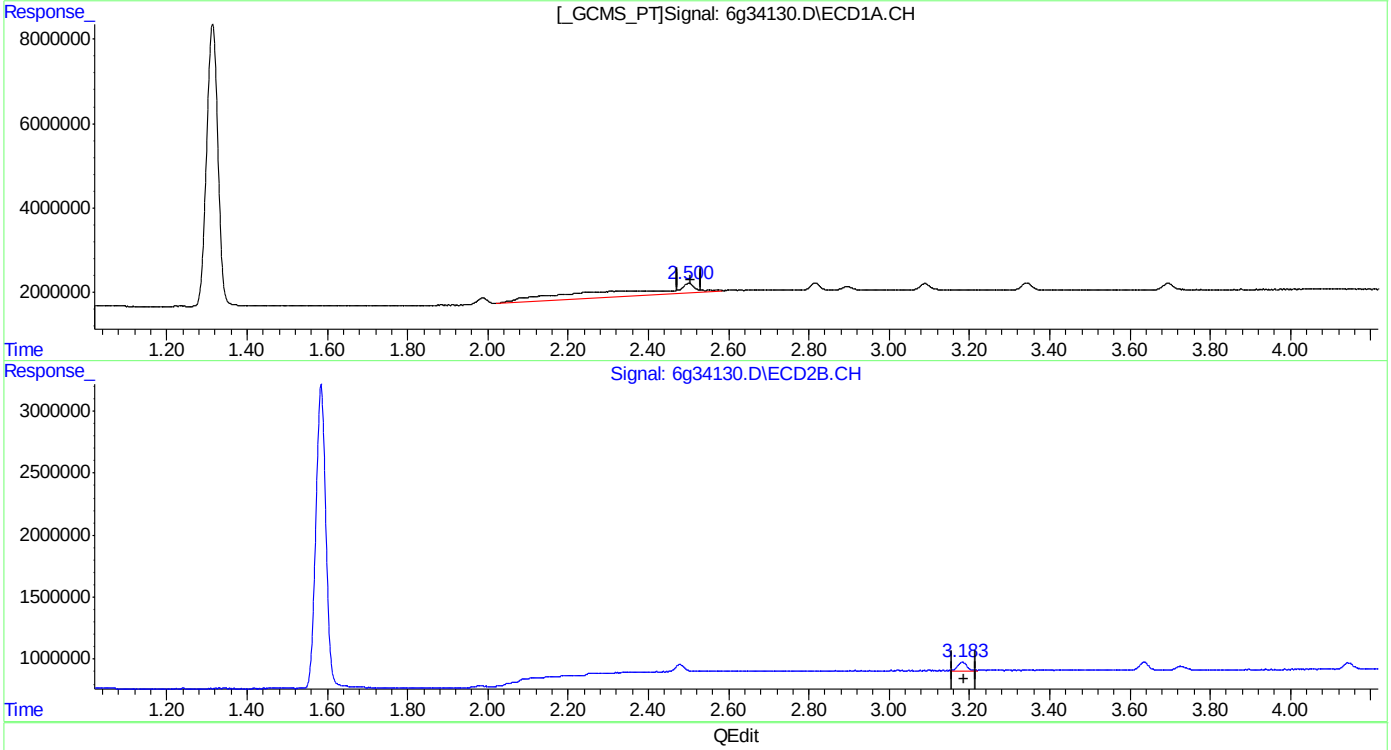
SGS ACCUTEST JC20098

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34130.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 3:49 pm
Operator : dharas
Sample : ic987-1
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 10:51:51 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um



QEdit

(3) alpha-BHC (A)
2.501min 11.218PPB
response 32431486

(3) alpha-BHC #2 (A)
3.182min 1.076PPB
response 1037508

(+) = Expected Retention Time
6PST987.M Mon Apr 18 10:52:32 2016

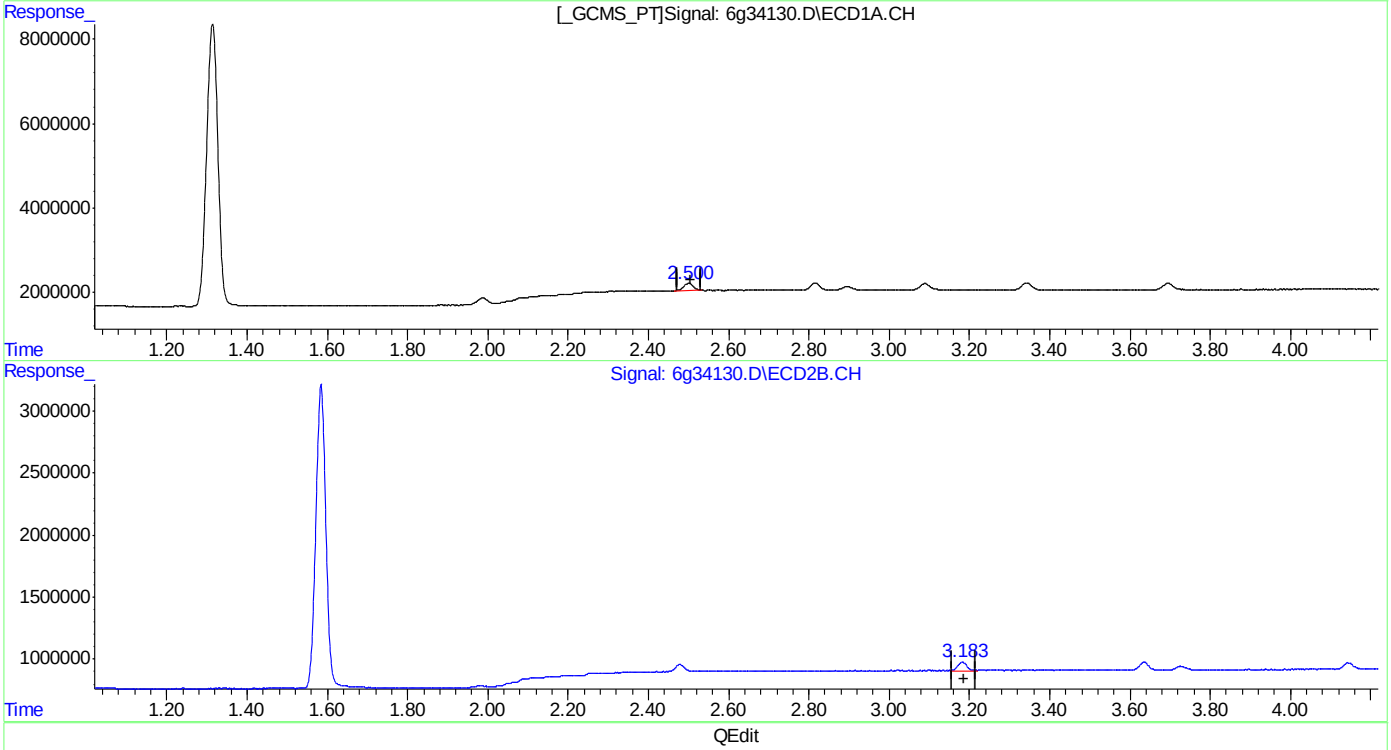
SGS ACCUTEST JC20098

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34130.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 3:49 pm
Operator : dharas
Sample : ic987-1
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 10:51:51 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um



QEdit

(3) alpha-BHC (A)
2.500min 0.967PPB m
response 2794596

(3) alpha-BHC #2 (A)
3.182min 1.076PPB
response 1037508

(+) = Expected Retention Time
6PST987.M Mon Apr 18 10:52:43 2016

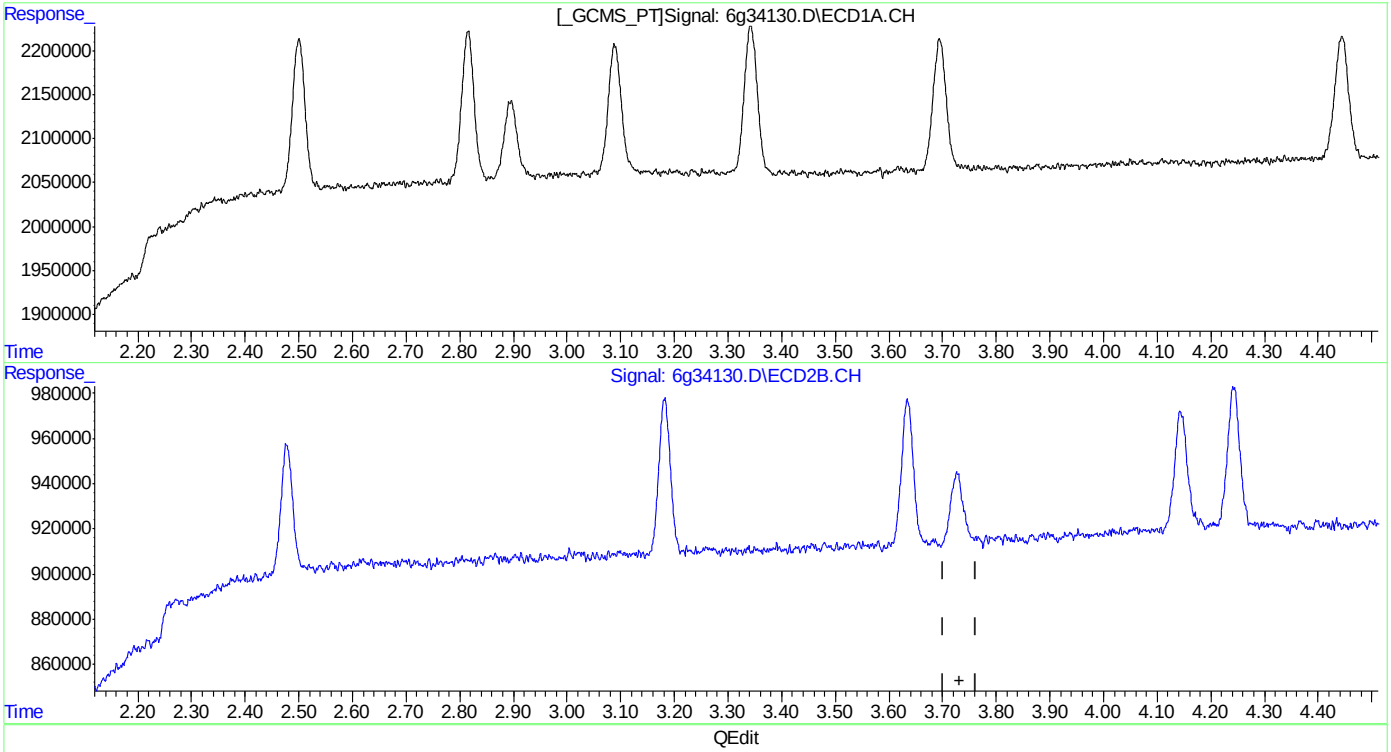
SGS ACCUTEST JC20098

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34130.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 3:49 pm
Operator : dharas
Sample : ic987-1
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 10:51:51 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um



(6) beta-BHC (B)
0.000min 0.000PPB
response 0

(6) beta-BHC #2 (B)
0.000min 0.000PPB
response 0

(+) = Expected Retention Time
6PST987.M Mon Apr 18 10:52:48 2016

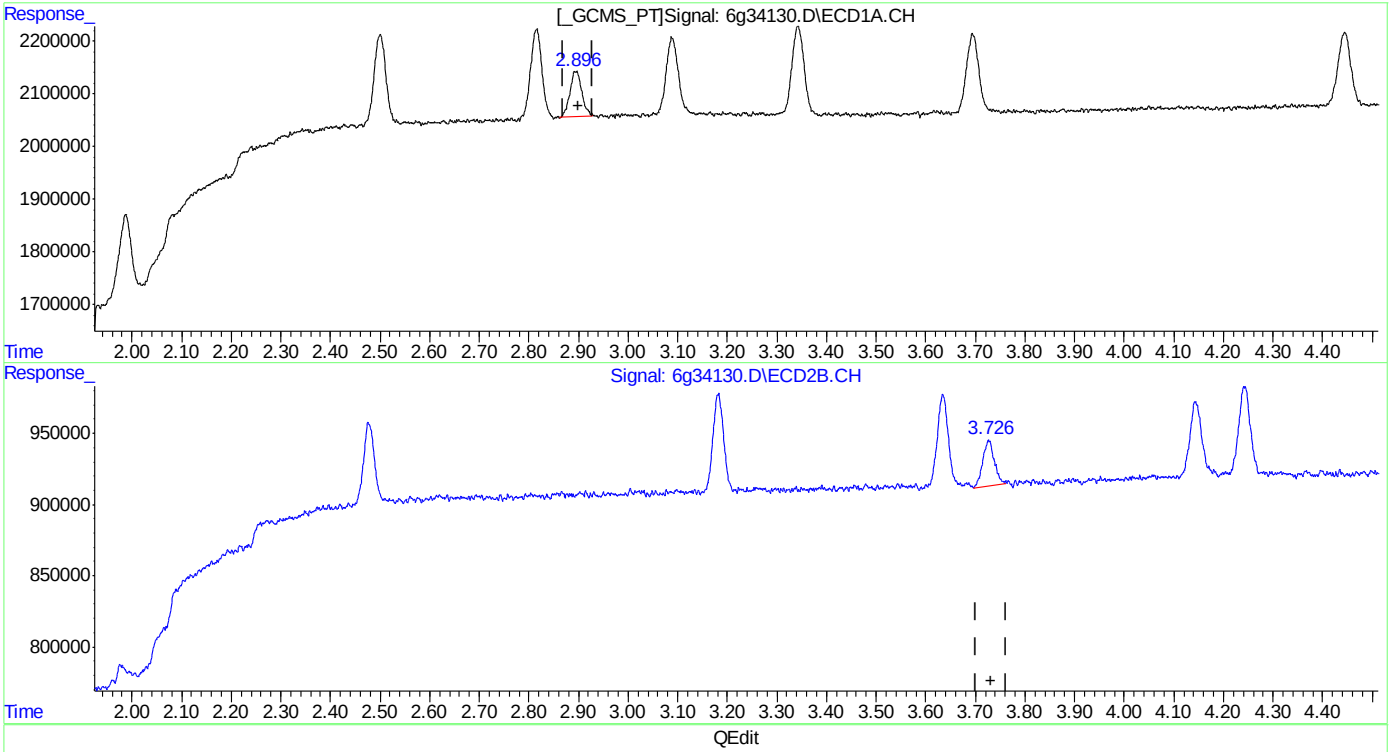
SGS ACCUTEST JC20098

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34130.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 3:49 pm
Operator : dharas
Sample : ic987-1
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 10:51:51 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um



(6) beta-BHC (B)
2.896min 1.084PPB m
response 1435856

(6) beta-BHC #2 (B)
3.726min 1.168PPB m
response 516127

(+) = Expected Retention Time

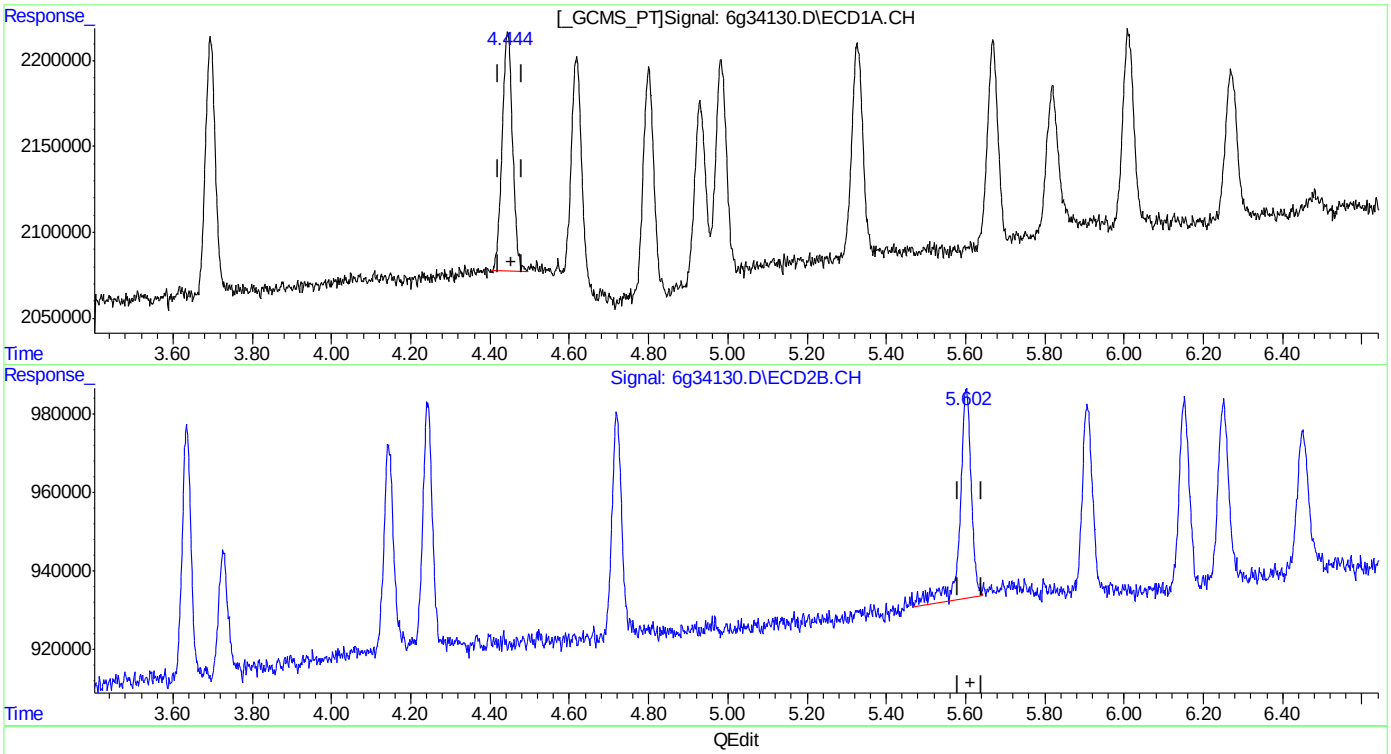
SGS ACCUTEST JC20098

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34130.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 3:49 pm
Operator : dharas
Sample : ic987-1
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 10:51:51 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um



(9) Heptachlor Epoxide (B)
4.445min 1.079PPB
response 2533344

(9) Heptachlor Epoxide #2 (B)
5.602min 1.388PPB
response 1086853

(+) = Expected Retention Time
6PST987.M Mon Apr 18 10:53:12 2016

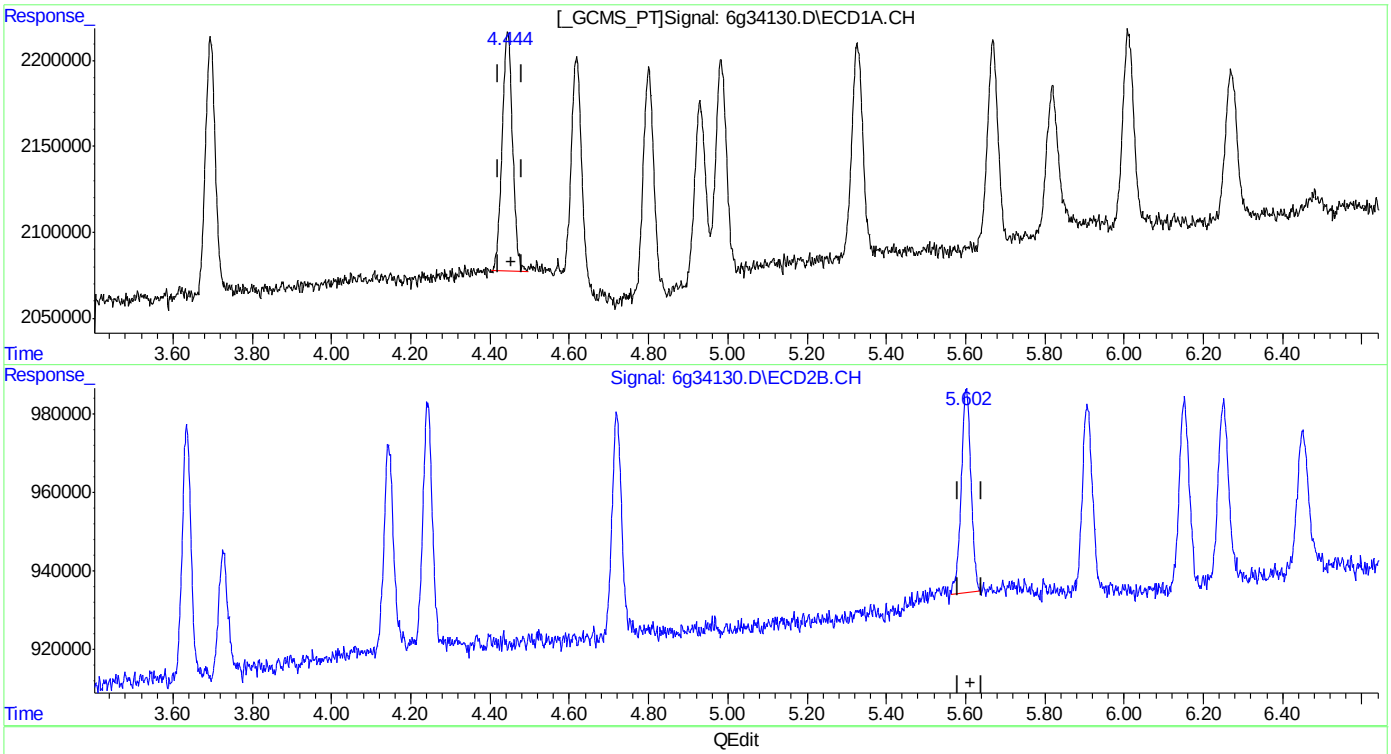
SGS ACCUTEST JC20098

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34130.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 3:49 pm
Operator : dharas
Sample : ic987-1
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 10:51:51 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um



(9) Heptachlor Epoxide (B)
4.445min 1.079PPB
response 2533344

(9) Heptachlor Epoxide #2 (B)
5.602min 1.139PPB m
response 891848

(+) = Expected Retention Time
6PST987.M Mon Apr 18 10:53:20 2016

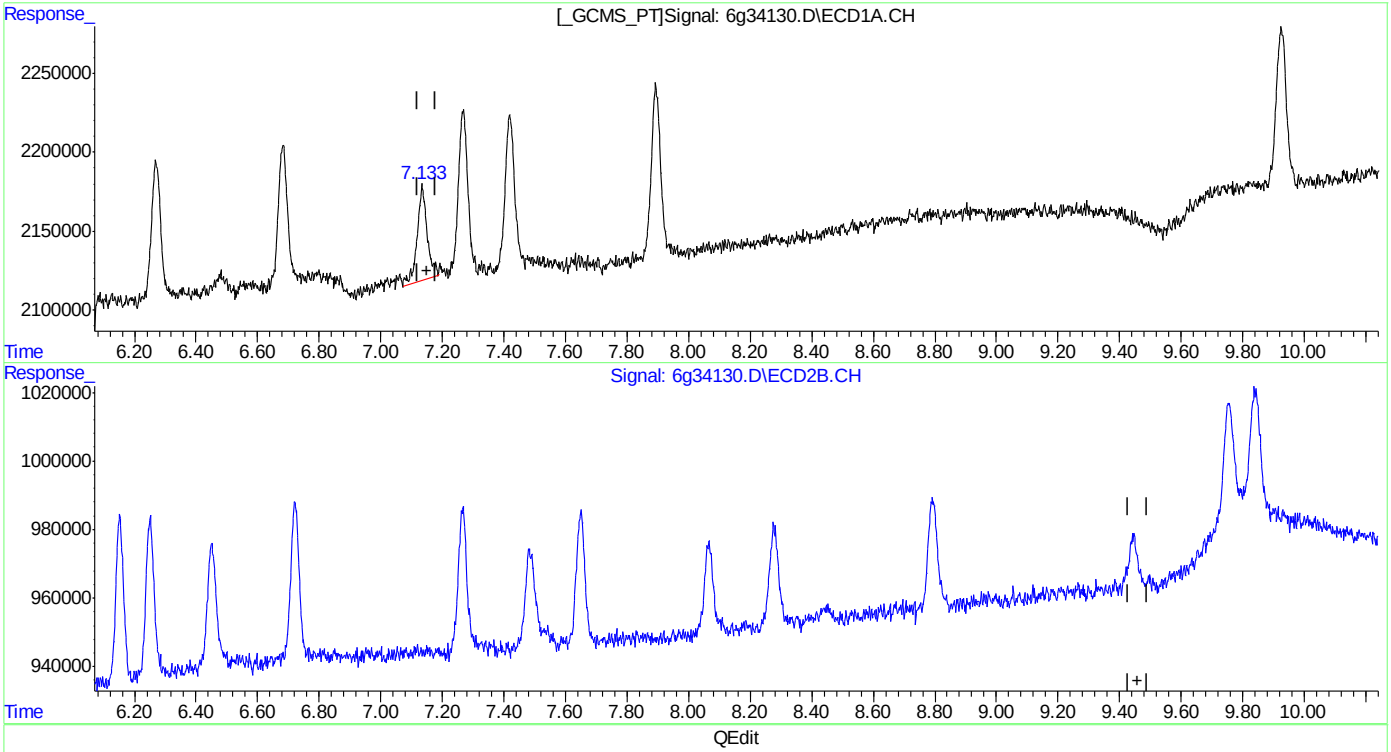
SGS ACCUTEST JC20098

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34130.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 3:49 pm
Operator : dharas
Sample : ic987-1
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 10:51:51 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um



(21) Methoxychlor (A)
7.134min 1.439PPB
response 1359857

(21) Methoxychlor #2 (A)
0.000min 0.000PPB
response 0

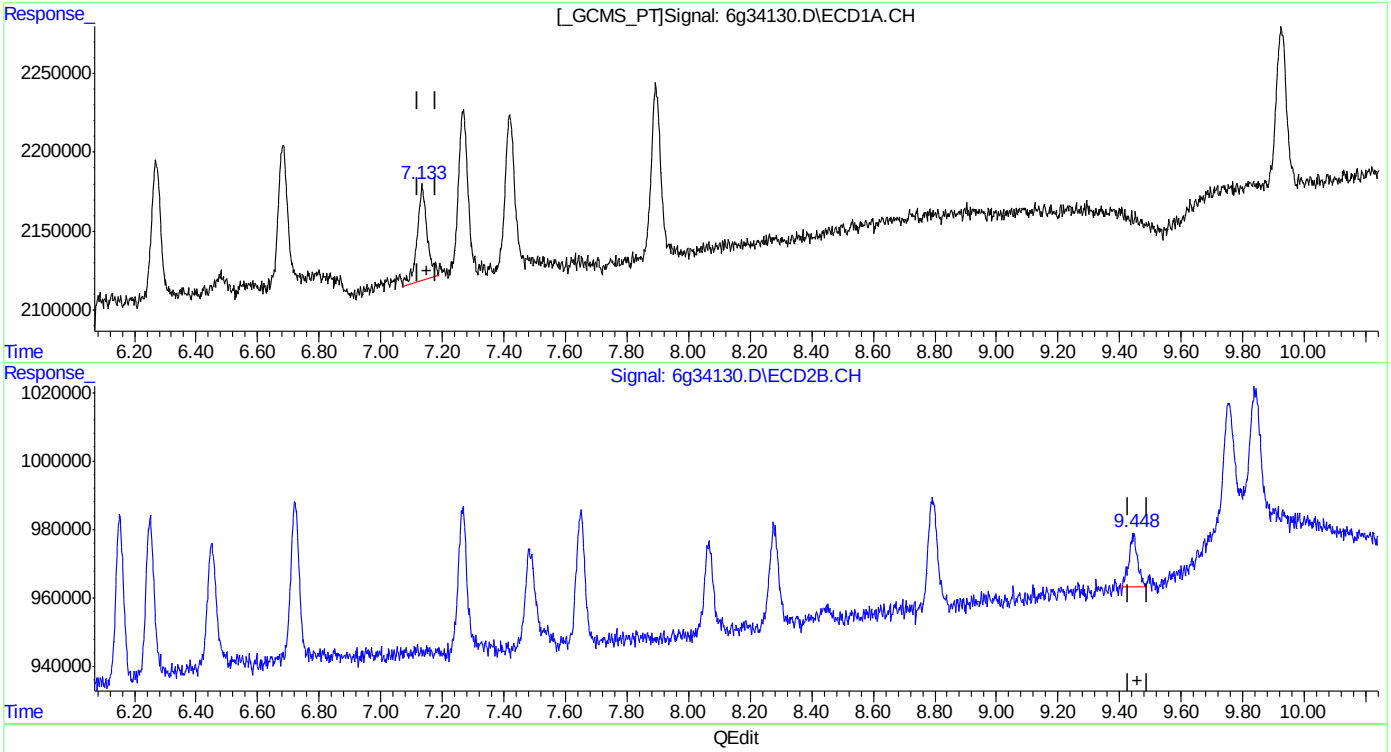
(+) = Expected Retention Time
6PST987.M Mon Apr 18 10:53:36 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34130.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 3:49 pm
Operator : dharas
Sample : ic987-1
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 10:51:51 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um



(21) Methoxychlor (A)
7.134min 1.439PPB
response 1359857

(21) Methoxychlor #2 (A)
9.448min 1.343PPB m
response 297463

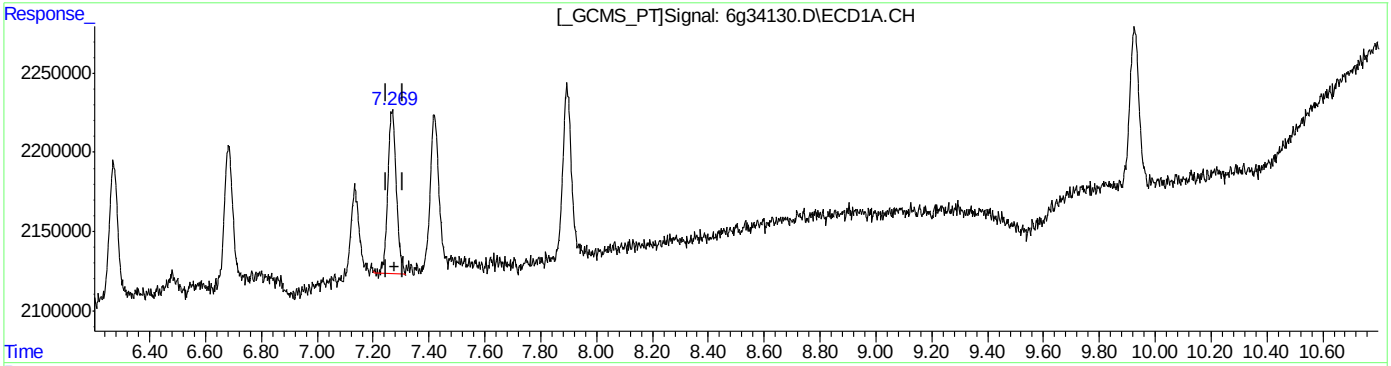
(+) = Expected Retention Time

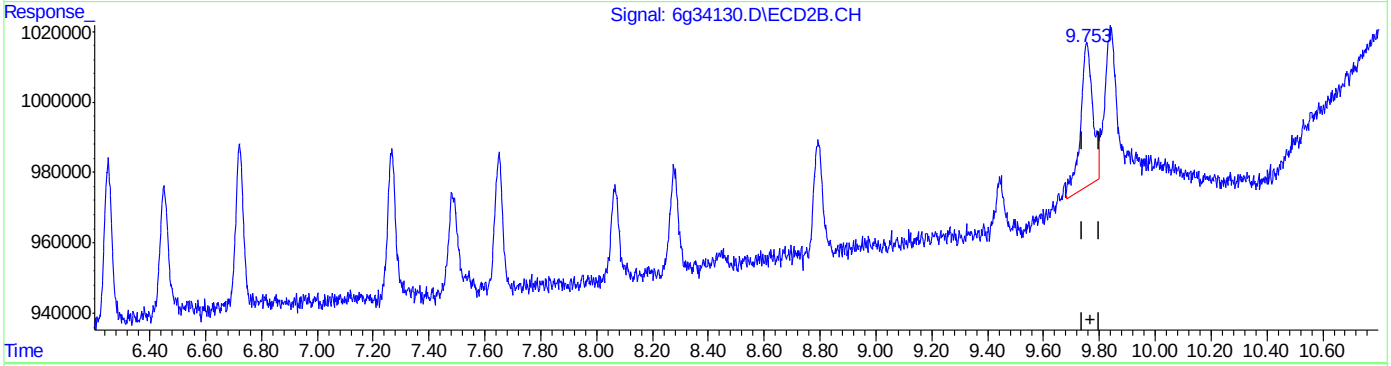
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34130.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 3:49 pm
Operator : dharas
Sample : ic987-1
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 10:51:51 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





QEdit

(22) Mirex
7.268min 1.112PPB
response 2186568

(22) Mirex #2
9.754min 2.103PPB
response 1253259

(+) = Expected Retention Time
6PST987.M Mon Apr 18 10:53:55 2016

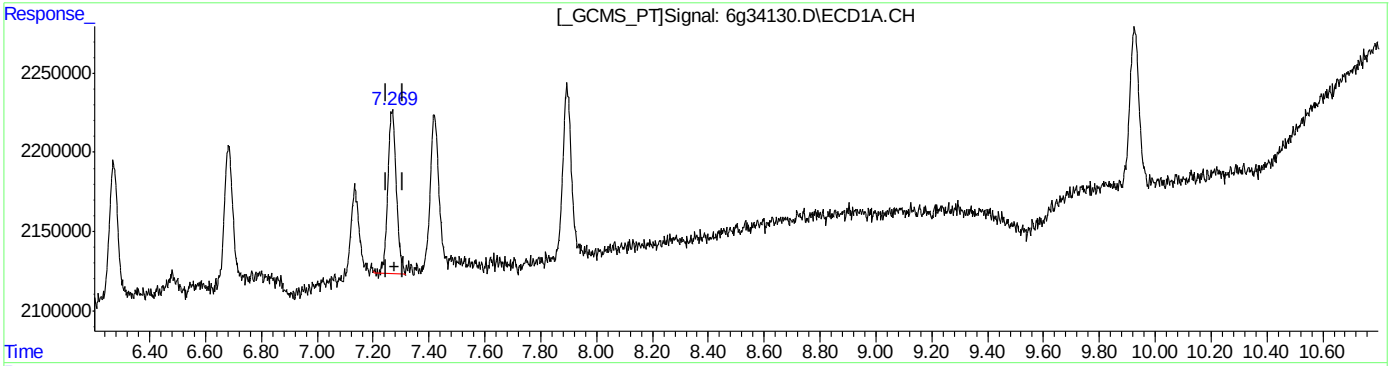
SGS ACCUTEST JC20098

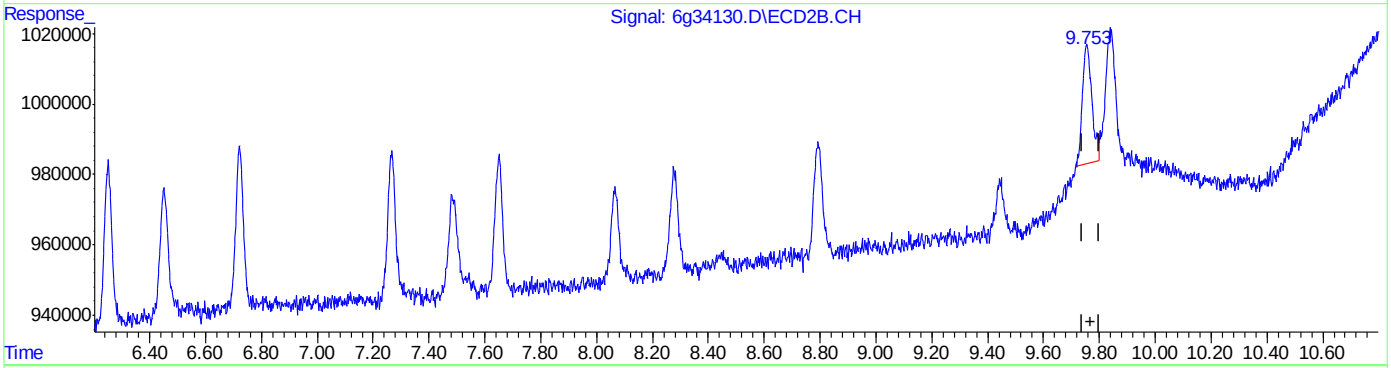
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34130.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 3:49 pm
Operator : dharas
Sample : ic987-1
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 10:51:51 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





QEdit

(22) Mirex
7.268min 1.112PPB
response 2186568

(22) Mirex #2
9.753min 1.361PPB m
response 811332

(+) = Expected Retention Time
6PST987.M Mon Apr 18 10:54:08 2016

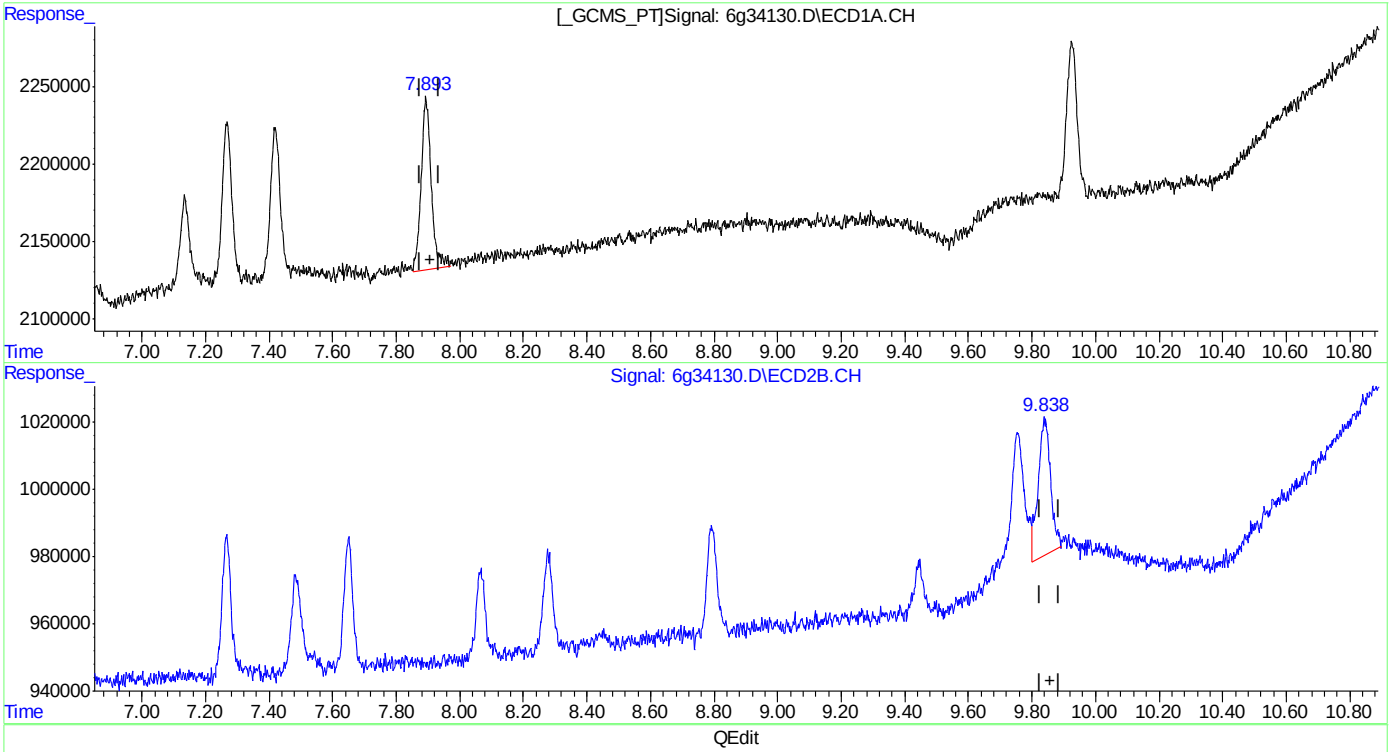
SGS ACCUTEST JC20098

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34130.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 3:49 pm
Operator : dharas
Sample : ic987-1
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 10:51:51 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um



QEdit

(23) Endrin Ketone (B)
7.893min 1.257PPB
response 2459754

(23) Endrin Ketone #2 (B)
9.844min 1.769PPB
response 1111083

(+) = Expected Retention Time
6PST987.M Mon Apr 18 10:54:12 2016

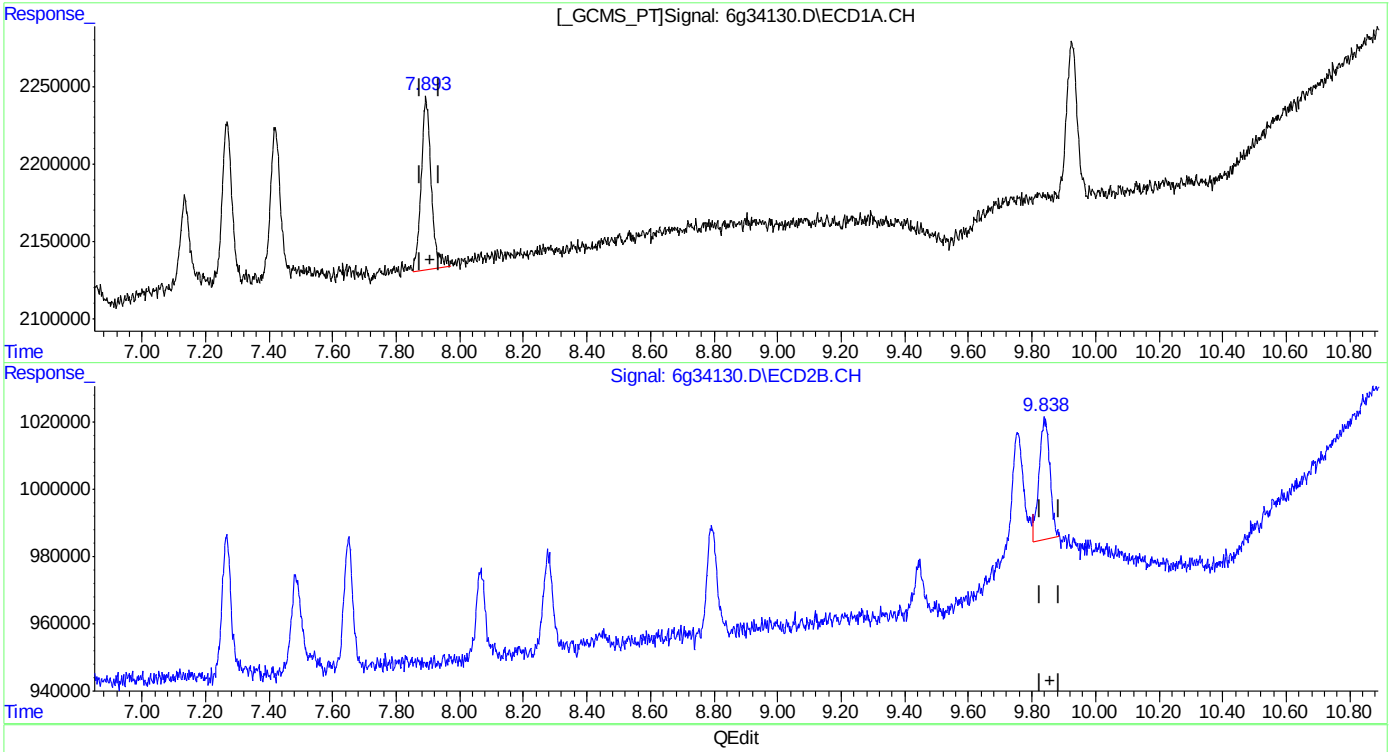
SGS ACCUTEST JC20098

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34130.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 3:49 pm
Operator : dharas
Sample : ic987-1
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 10:51:51 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um



QEdit

(23) Endrin Ketone (B)
7.893min 1.257PPB
response 2459754

(23) Endrin Ketone #2 (B)
9.838min 1.365PPB m
response 857280

(+) = Expected Retention Time
6PST987.M Mon Apr 18 10:54:33 2016

SGS ACCUTEST JC20098

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 04/18/16 14:12

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34131.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 4:05 pm
Operator : dharas
Sample : ic987-2
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 11:18:11 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.314	1.585	138.6E6	45170280	50.000	50.000
	System Monitoring Compounds						
2)	SAB Tetrachlo...	1.988	2.479	5101788	1738576	2.082	2.083
	Spiked Amount 40.000	Range	30 - 150	Recovery	=	5.21%#	5.21%#
24)	SAB Decachlor...	9.926	11.763	4607200	1403506	2.107	2.277m
	Spiked Amount 40.000			Recovery	=	5.27%	5.69%
	Target Compounds						
3) A	alpha-BHC	2.500	3.183	5774894	2058064	1.879	2.013
4) MA	gamma-BHC	2.816	3.636	5554647	1999405	1.950	2.116
5) MA	Heptachlor	3.344	4.243	5832418	2063856	2.092	2.260
6) B	beta-BHC	2.896	3.726	3076723	981586	2.186m	2.096m
7) B	delta-BHC	3.090	4.145	4966804	1849032	1.950	2.177
8) MB	Aldrin	3.695	4.721	5278516	1881659	2.008	2.125
9) B	Heptachlo...	4.445	5.603	5114038	1885907	2.050	2.272
10) B	gamma-Chl...	4.619	5.909	5065834	1833515	1.978	2.260
11) B	alpha-Chl...	4.802	6.153	5102906	1756720	2.028	2.161
12) A	Endosulfan I	4.983	6.253	5137112	1702104	2.001	2.148
13) B	4,4'-DDE	4.931	6.452	4058606	1526131	2.104	2.090
14) MA	Dieldrin	5.327	6.724	4928360	1784737	2.022	2.198
15) MA	Endrin	5.670	7.266	4499665	1631535	2.037	2.274
16) A	4,4'-DDD	5.819	7.486	3497822	1276576	2.084	1.907
17) B	Endosulfa...	6.010	7.650	4442758	1574127	2.007	2.122
18) MA	4,4'-DDT	6.270	8.067	3705960	1175821	2.093	2.648 #
19) B	Endrin Al...	6.683	8.279	3577534	1247912	2.000	2.091
20) B	Endosulfa...	7.423	8.793	3981880	1446528	2.091	2.323
21) A	Methoxychlor	7.137	9.443f	2283360	614080	2.273	2.615m
22)	Mirex	7.269	9.755f	4245275	1416035	2.031	2.241
23) B	Endrin Ke...	7.896	9.843	4563666	1657293	2.194	2.490

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

11.6.17 11

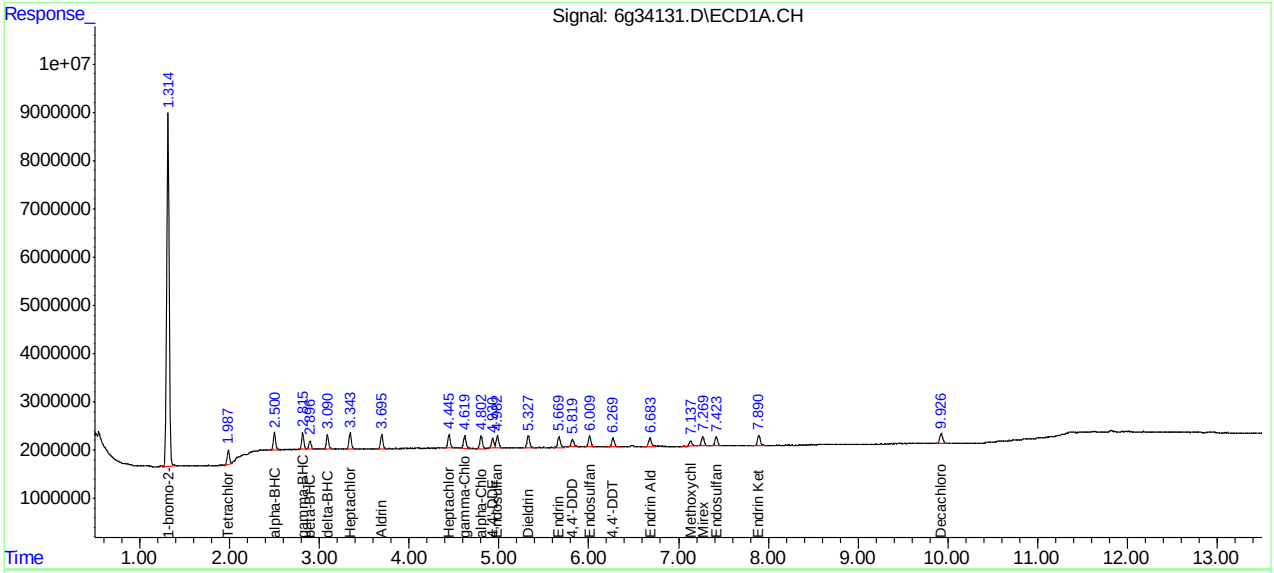
SGS ACCUTEST JC20098

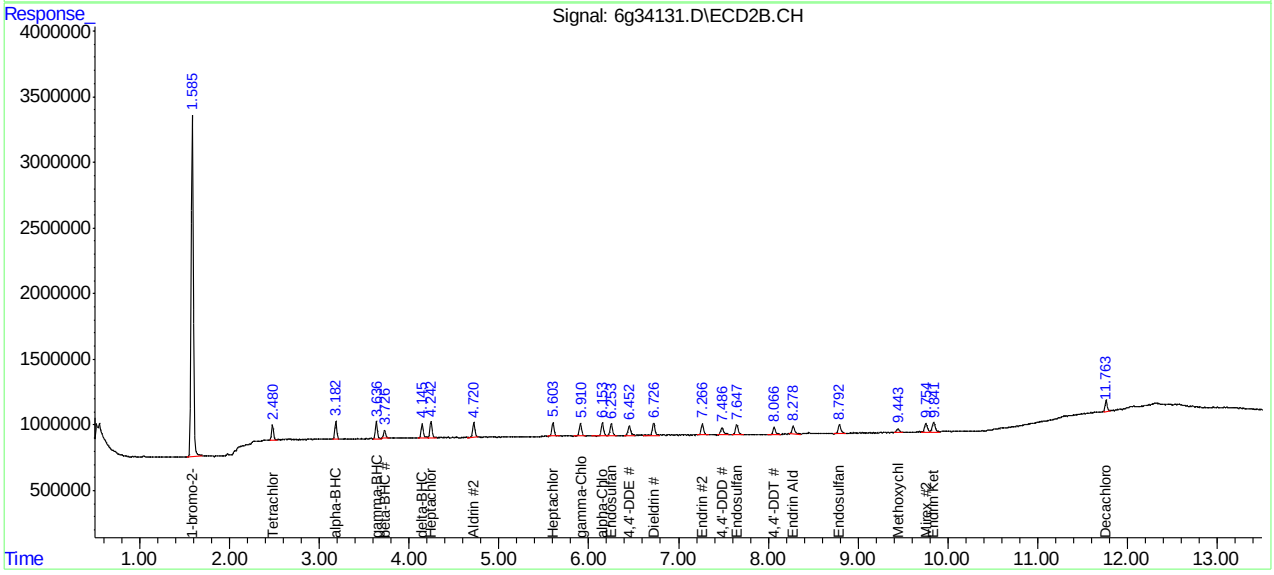
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34131.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 4:05 pm
Operator : dharas
Sample : ic987-2
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 11:18:11 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





Manual Integration Approval Summary

Sample Number:	G6G987-IC987	**Method:**	SW846 8081B
Lab FileID:	6G34131.D	**Analyst approved:**	04/18/16 12:23 Dhara Saparia
Injection Time:	04/14/16 16:05	**Supervisor approved:**	04/18/16 14:12 Gwendolyn Burns

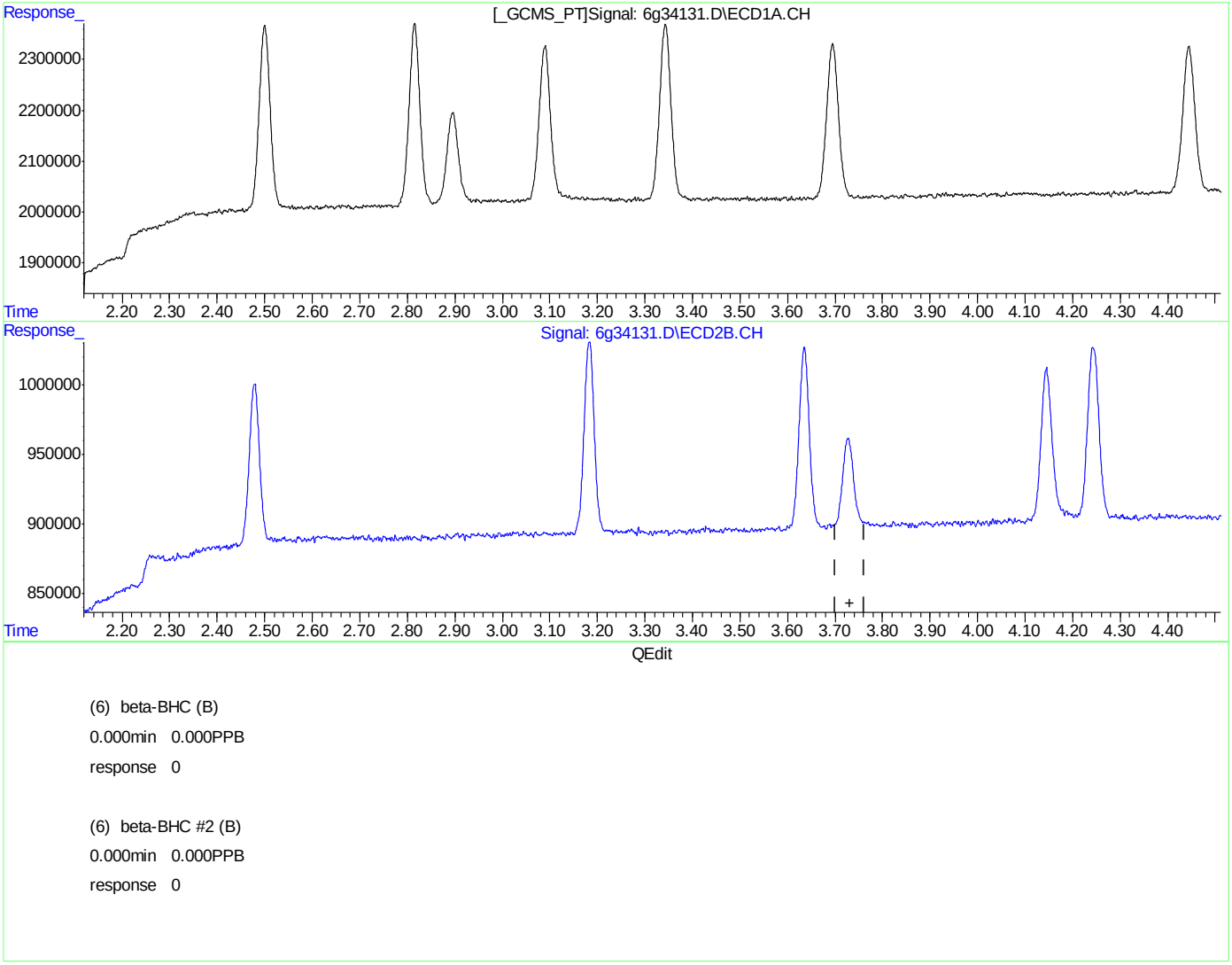
Parameter	CAS	Sig#	R.T. (min.)	Reason
beta-BHC	319-85-7	1	2.90	Poor instrument integration
beta-BHC	319-85-7	2	3.73	Poor instrument integration
Methoxychlor	72-43-5	2	9.44	Poor instrument integration
Decachlorobiphenyl	2051-24-3	2	11.76	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34131.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 4:05 pm
Operator : dharas
Sample : ic987-2
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 10:41:32 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um



(6) beta-BHC (B)
0.000min 0.000PPB
response 0

(6) beta-BHC #2 (B)
0.000min 0.000PPB
response 0

(+) = Expected Retention Time
6PST987.M Mon Apr 18 10:41:41 2016

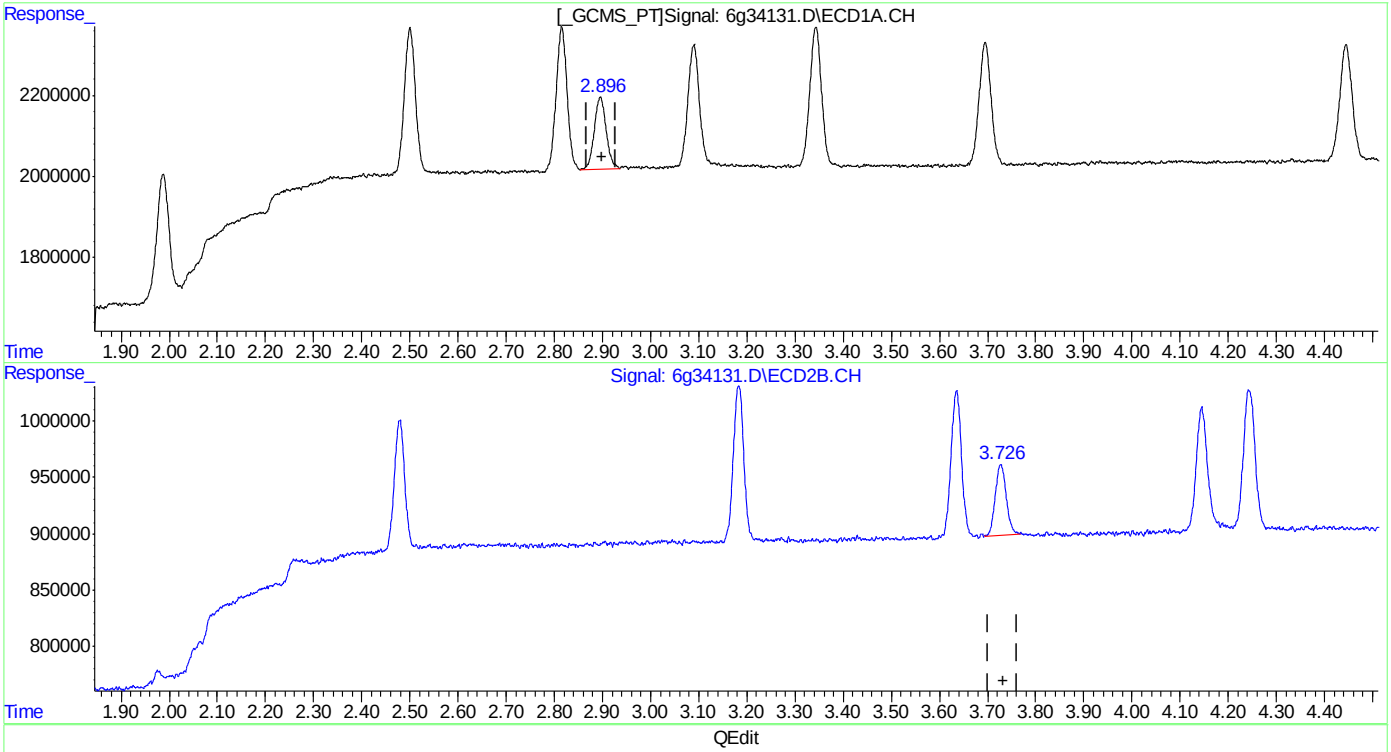
SGS ACCUTEST JC20098

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34131.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 4:05 pm
Operator : dharas
Sample : ic987-2
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 10:41:32 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um



QEdit

(6) beta-BHC (B)
2.896min 2.186PPB m
response 3076723

(6) beta-BHC #2 (B)
3.726min 2.096PPB m
response 981586

(+) = Expected Retention Time
6PST987.M Mon Apr 18 10:41:59 2016

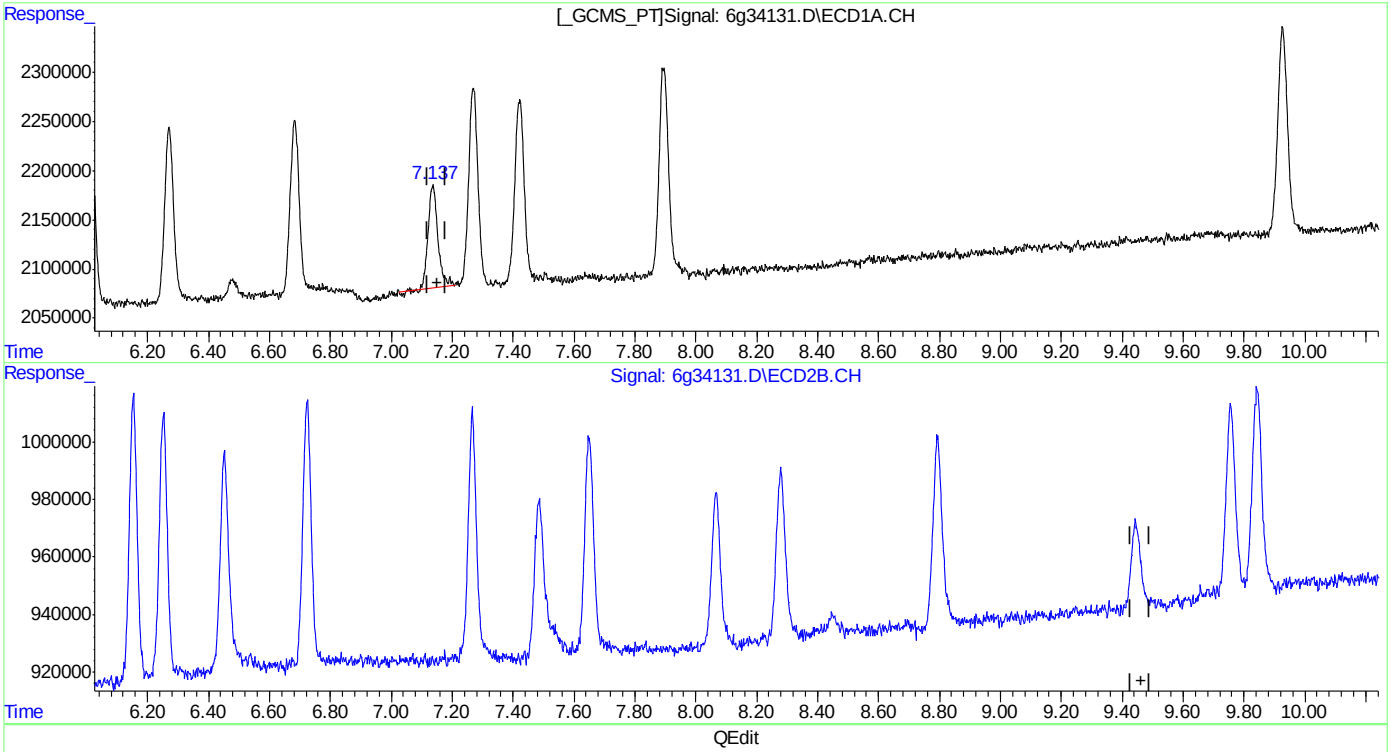
SGS ACCUTEST JC20098

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34131.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 4:05 pm
Operator : dharas
Sample : ic987-2
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 10:41:32 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um



(21) Methoxychlor (A)
7.137min 2.273PPB
response 2283360

(21) Methoxychlor #2 (A)
0.000min 0.000PPB
response 0

(+) = Expected Retention Time

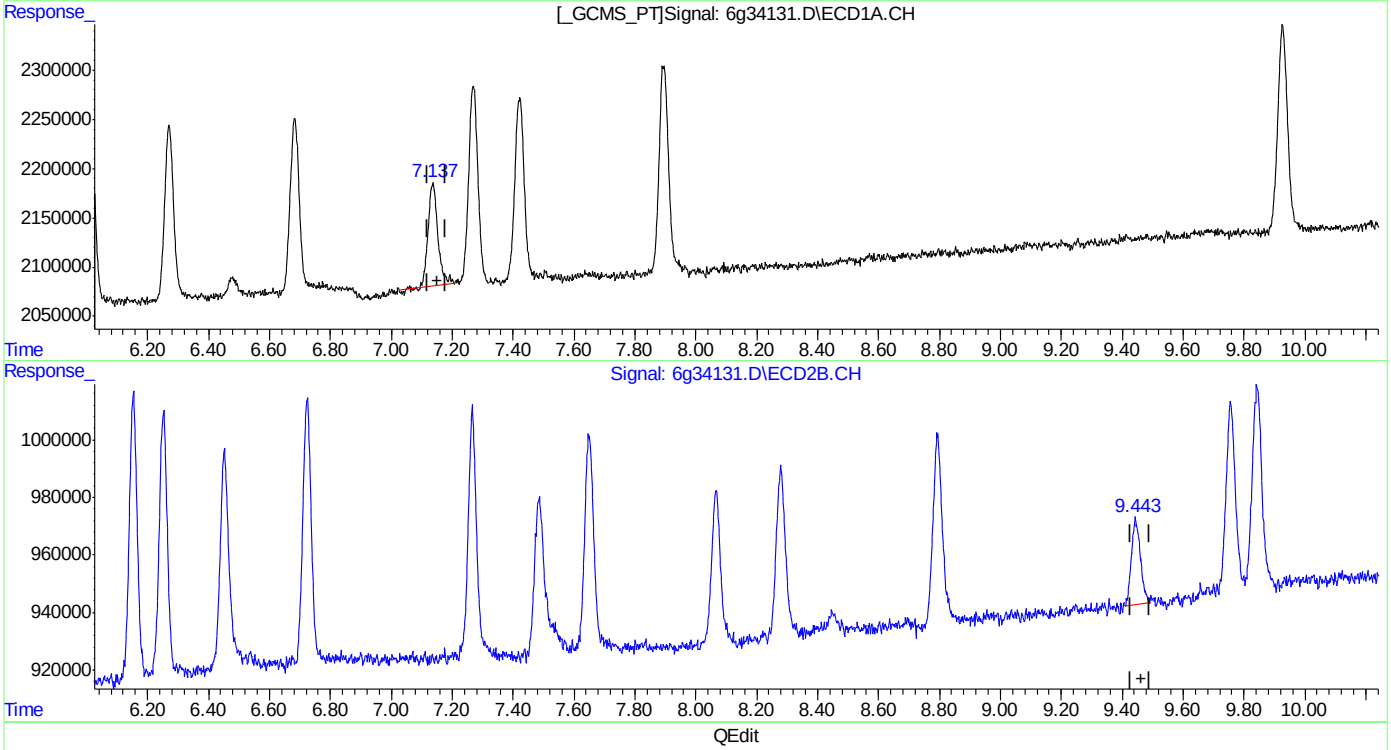
SGS ACCUTEST JC20098
11.6.17.4 11

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34131.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 4:05 pm
Operator : dharas
Sample : ic987-2
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 10:41:32 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um



(21) Methoxychlor (A)
7.137min 2.273PPB
response 2283360

(21) Methoxychlor #2 (A)
9.443min 2.615PPB m
response 614080

(+) = Expected Retention Time

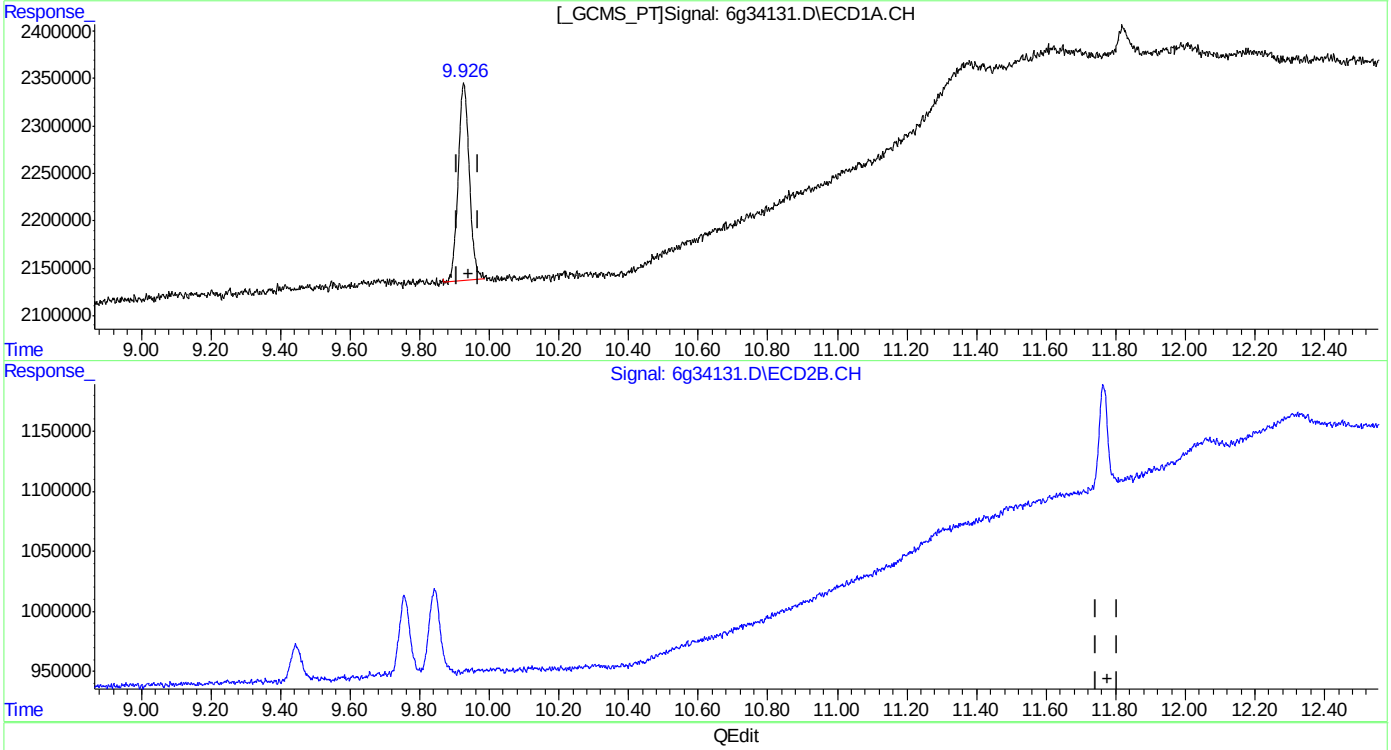
SGS ACCUTEST JC20098
11.6.17.5 11

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34131.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 4:05 pm
Operator : dharas
Sample : ic987-2
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 10:41:32 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um



(24) Decachlorobiphenyl (SAB)
9.926min 2.107PPB
response 4607200

(24) Decachlorobiphenyl #2 (SAB)
0.000min 0.000PPB
response 0

(+) = Expected Retention Time
6PST987.M Mon Apr 18 10:42:27 2016

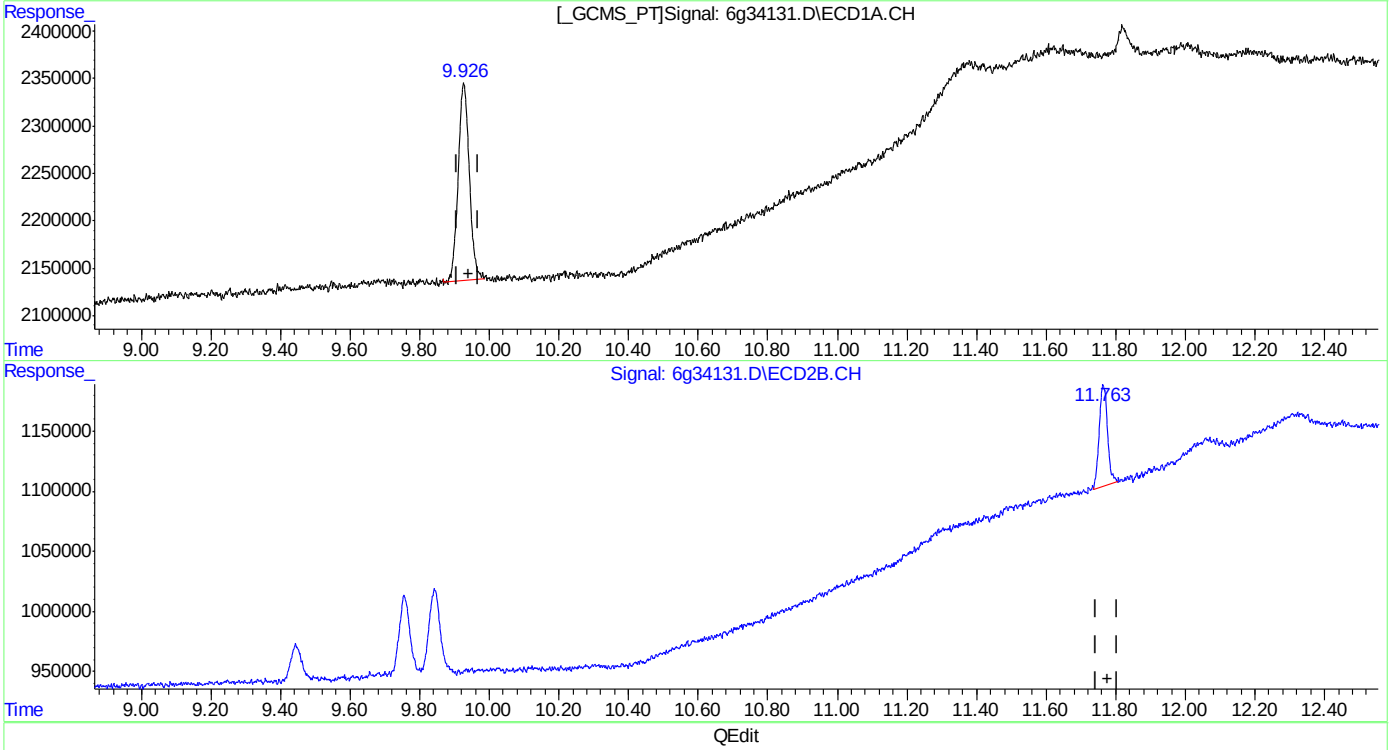
SGS ACCUTEST JC20098

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34131.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 4:05 pm
Operator : dharas
Sample : ic987-2
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 10:41:32 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um



(24) Decachlorobiphenyl (SAB)
9.926min 2.107PPB
response 4607200

(24) Decachlorobiphenyl #2 (SAB)
11.763min 2.277PPB m
response 1403506

(+) = Expected Retention Time
6PST987.M Mon Apr 18 10:42:34 2016

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 04/18/16 14:12

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34132.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 4:22 pm
Operator : dharas
Sample : ic987-5
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 11:18:24 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.314	1.585	141.2E6	45861524	50.000	50.000
	System Monitoring Compounds						
2)	SAB Tetrachlo...	1.988	2.478	12604959	4212366	5.051	4.970
	Spiked Amount 40.000	Range	30 - 150	Recovery	=	12.63%#	12.43%#
24)	SAB Decachlor...	9.926	11.768	11331892	2647512	5.088	4.230m
	Spiked Amount 40.000			Recovery	=	12.72%	10.58%
	Target Compounds						
3) A	alpha-BHC	2.501	3.183	14648824	5063872	4.680	4.878
4) MA	gamma-BHC	2.817	3.636	14067221	4844724	4.849	5.049
5) MA	Heptachlor	3.344	4.244	14577088	4888164	5.133	5.273
6) B	beta-BHC	2.896	3.728	7714959	2480528	5.381	5.217
7) B	delta-BHC	3.091	4.146	12751854	4306125	4.916	4.995
8) MB	Aldrin	3.697	4.722	13106990	4722588	4.895	5.254
9) B	Heptachlo...	4.446	5.603	12828644	4363078	5.049	5.176
10) B	gamma-Chl...	4.620	5.909	12654624	4270104	4.851	5.184
11) B	alpha-Chl...	4.802	6.154	12678021	4336659	4.947	5.255
12) A	Endosulfan I	4.985	6.252	12389510	4144533	4.737	5.151
13) B	4,4'-DDE	4.932	6.454	10073925	3476449	5.127	4.690
14) MA	Dieldrin	5.330	6.723	12016085	4266739	4.839	5.175
15) MA	Endrin	5.672	7.267	11105455	4047985	4.936	5.556
16) A	4,4'-DDD	5.820	7.486	8487607	3302013	4.964	4.858
17) B	Endosulfa...	6.012	7.651	10976603	3743835	4.867	4.972
18) MA	4,4'-DDT	6.270	8.066	9215147	2757576	5.110	6.117
19) B	Endrin Al...	6.684	8.279	9058405	2994191	4.970	4.940
20) B	Endosulfa...	7.422	8.795	9637621	3219291	4.970	5.093
21) A	Methoxychlor	7.137	9.445f	5612130	1635835	5.483	6.860m#
22)	Mirex	7.270	9.757	10560608	3364693	4.960	5.244
23) B	Endrin Ke...	7.895	9.840f	11298895	3852585	5.333	5.700

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

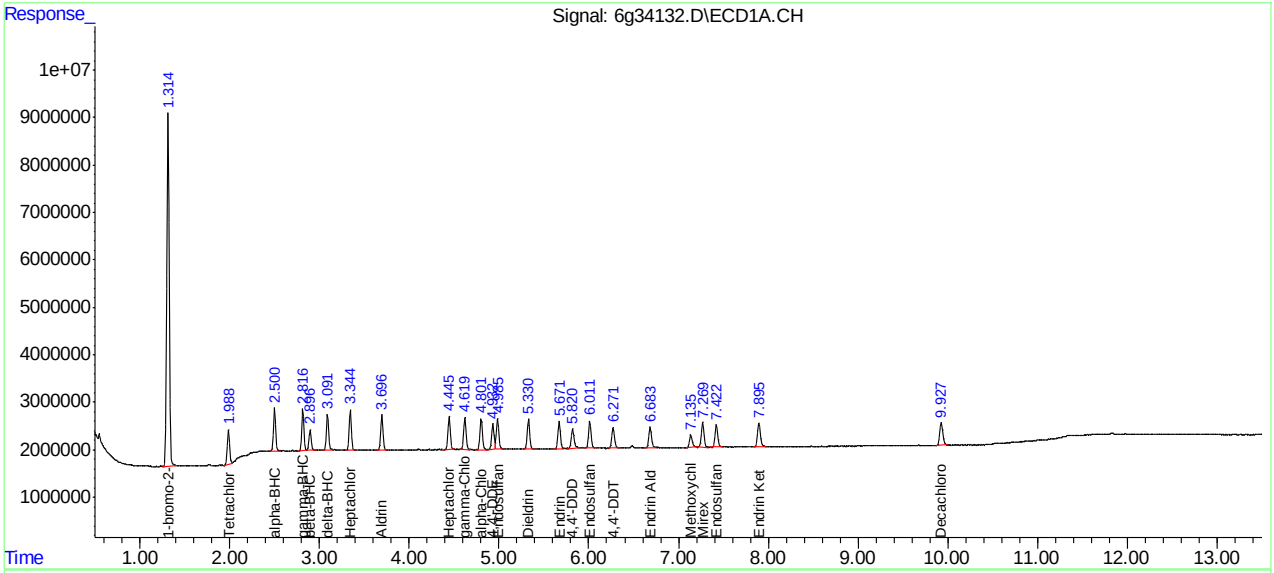
11.6.18 11

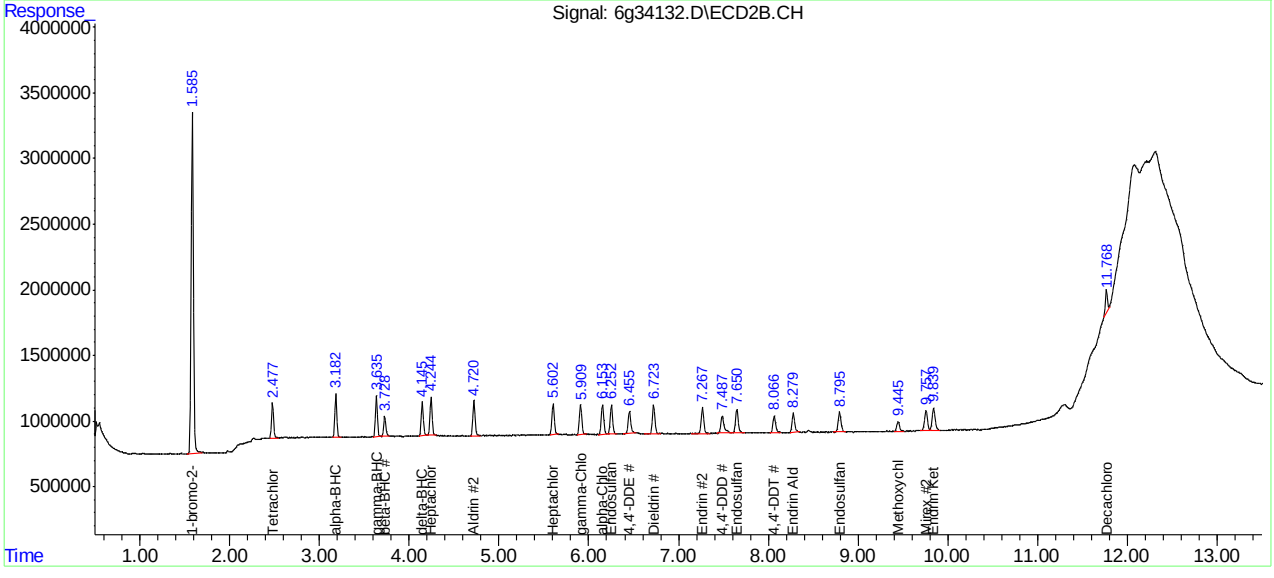
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34132.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 4:22 pm
Operator : dharas
Sample : ic987-5
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 11:18:24 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





Manual Integration Approval Summary

Sample Number:	G6G987-IC987	**Method:**	SW846 8081B
Lab FileID:	6G34132.D	**Analyst approved:**	04/18/16 12:23 Dhara Saparia
Injection Time:	04/14/16 16:22	**Supervisor approved:**	04/18/16 14:12 Gwendolyn Burns

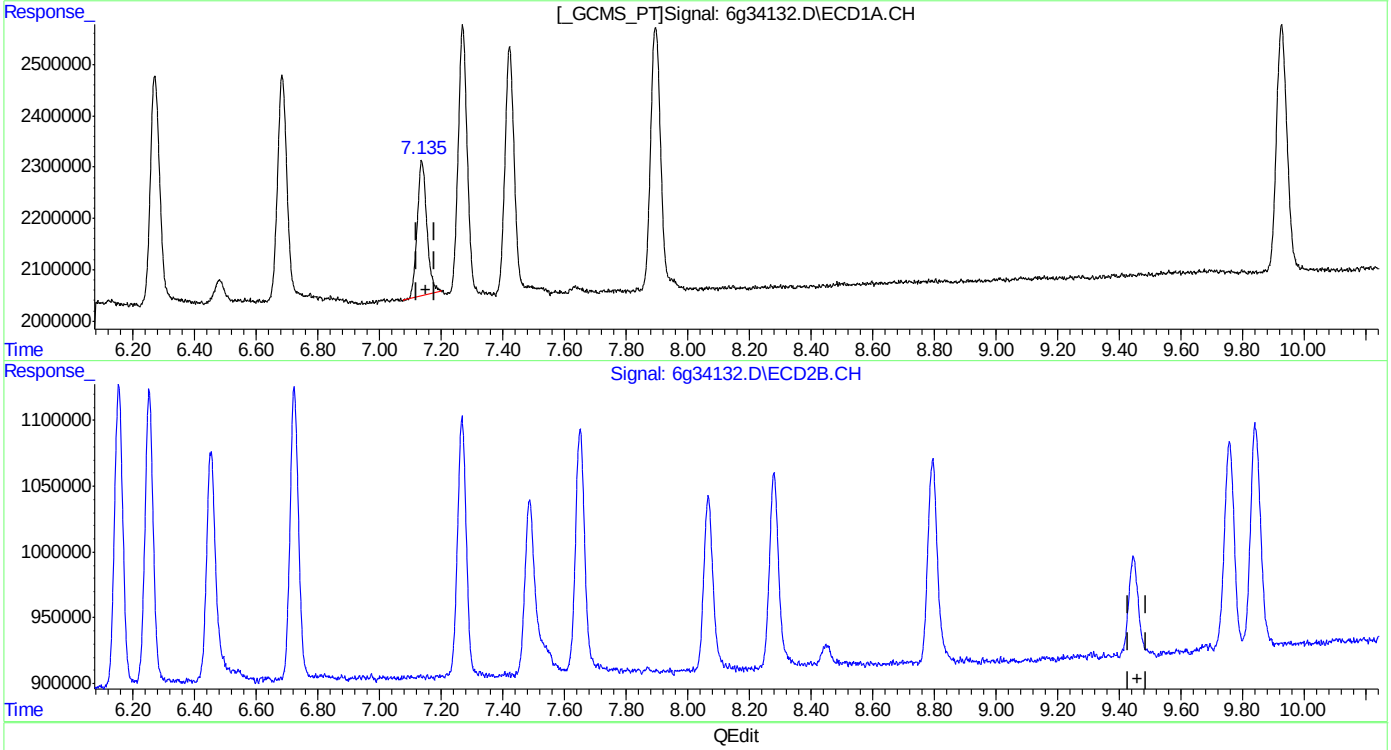
Parameter	CAS	Sig#	R.T. (min.)	Reason
Methoxychlor	72-43-5	2	9.44	Poor instrument integration
Decachlorobiphenyl	2051-24-3	2	11.77	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34132.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 4:22 pm
Operator : dharas
Sample : ic987-5
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 10:36:14 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um



(21) Methoxychlor (A)
7.137min 5.483PPB
response 5612130

(21) Methoxychlor #2 (A)
0.000min 0.000PPB
response 0

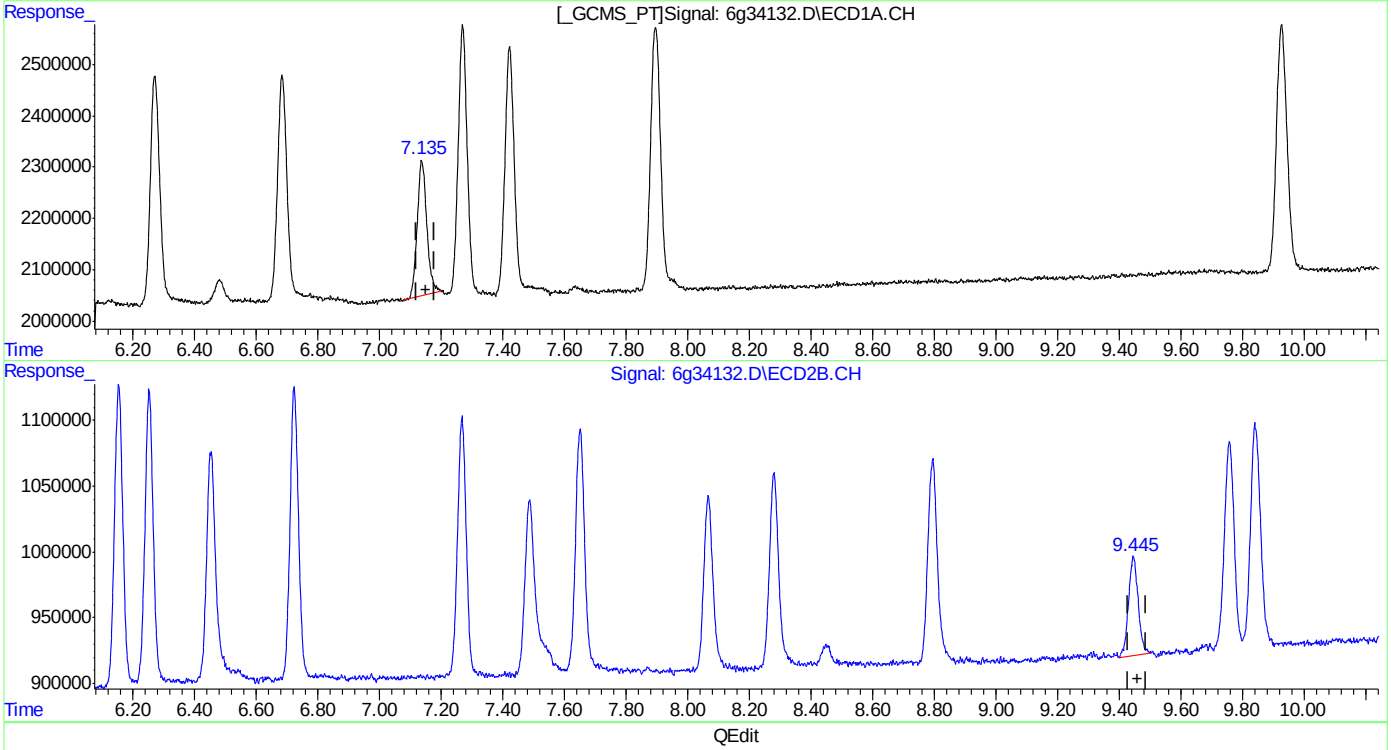
(+) = Expected Retention Time
6PST987.M Mon Apr 18 10:36:47 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34132.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 4:22 pm
Operator : dharas
Sample : ic987-5
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 10:36:14 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um



(21) Methoxychlor (A)
7.137min 5.483PPB
response 5612130

(21) Methoxychlor #2 (A)
9.445min 6.860PPB m
response 1635835

(+) = Expected Retention Time
6PST987.M Mon Apr 18 10:36:56 2016

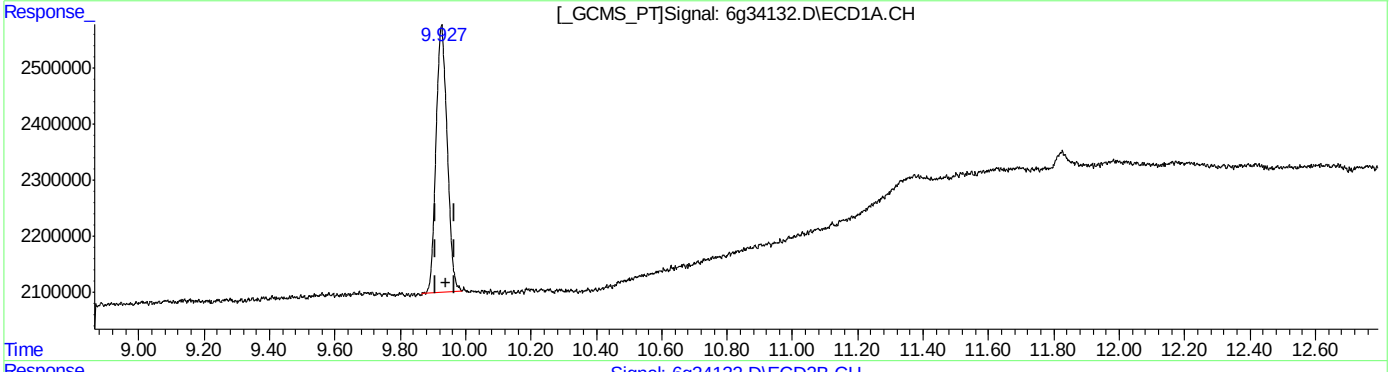
SGS ACCUTEST JC20098

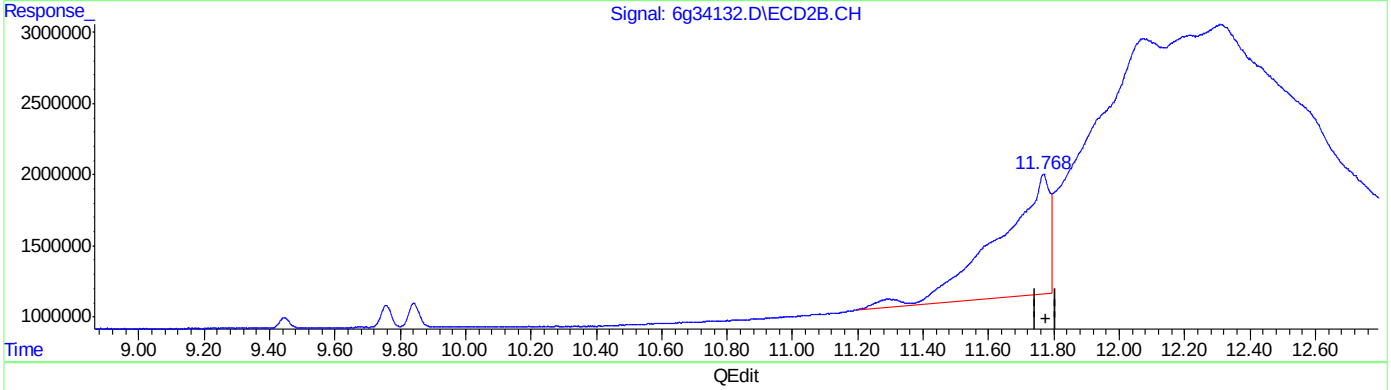
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34132.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 4:22 pm
Operator : dharas
Sample : ic987-5
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 10:36:14 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





QEdit

(24) Decachlorobiphenyl (SAB)
9.926min 5.088PPB
response 11331892

(24) Decachlorobiphenyl #2 (SAB)
11.768min 147.393PPB
response 92250162

(+) = Expected Retention Time

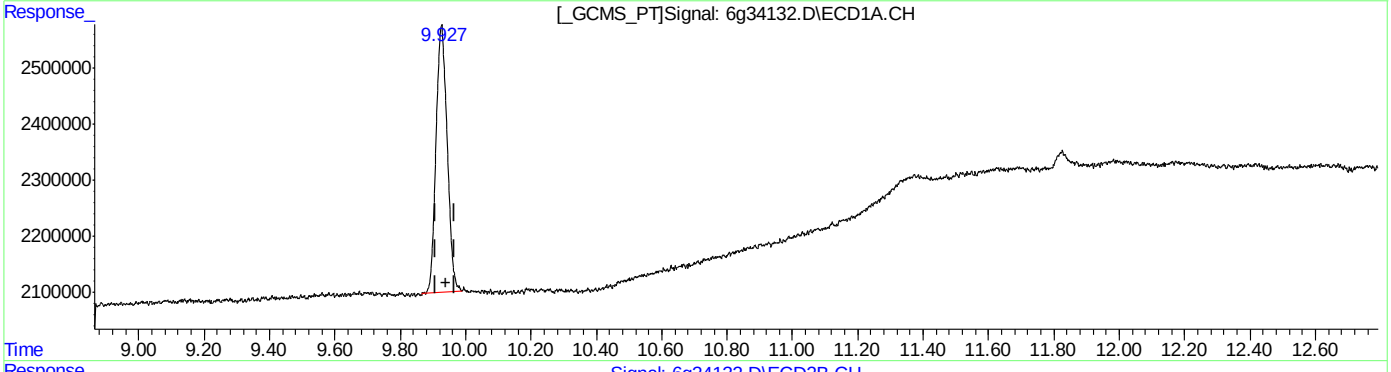
SGS ACCUTEST JC20098

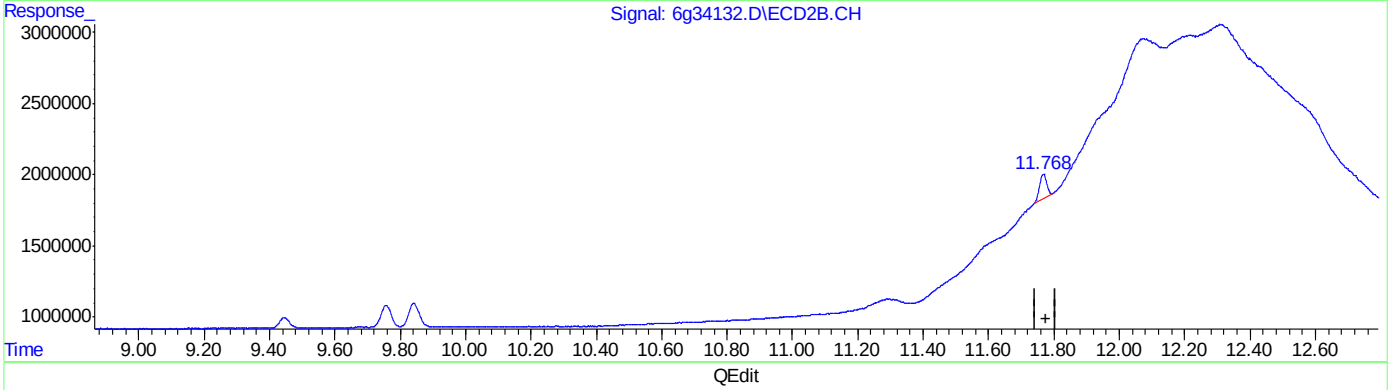
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34132.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 4:22 pm
Operator : dharas
Sample : ic987-5
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 10:36:14 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





QEdit

(24) Decachlorobiphenyl (SAB)
9.926min 5.088PPB
response 11331892

(24) Decachlorobiphenyl #2 (SAB)
11.768min 4.230PPB m
response 2647512

(+) = Expected Retention Time

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34133.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 4:38 pm
Operator : dharas
Sample : ic987-10
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 11:18:37 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.313	1.584	140.5E6	45920602	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	1.987	2.478	24876594	8119893	10.018	9.568
Spiked Amount		40.000	Range	30 - 150	Recovery	= 25.05%#	23.92%#
24) SAB	Decachlor...	9.926	11.765	22366235	6242104	10.092	9.961
Spiked Amount		40.000			Recovery	= 25.23%	24.90%
	Target Compounds						
3) A	alpha-BHC	2.500	3.183	30797792	10167663	9.888	9.782
4) MA	gamma-BHC	2.815	3.636	29160536	9589575	10.101	9.982
5) MA	Heptachlor	3.344	4.244	29643582	9822509	10.490	10.581
6) B	beta-BHC	2.896	3.728	14956880	4847980	10.483	10.183
7) B	delta-BHC	3.091	4.146	26291257	8798710	10.186	10.192
8) MB	Aldrin	3.696	4.721	26999664	9116635	10.134	10.130
9) B	Heptachlo...	4.445	5.603	25835552	8709773	10.218	10.320
10) B	gamma-Chl...	4.619	5.910	25772075	8425827	9.929	10.216
11) B	alpha-Chl...	4.802	6.153	25702060	8384411	10.078	10.146
12) A	Endosulfan I	4.985	6.252	25001437	8203458	9.606	10.183
13) B	4,4'-DDE	4.931	6.452	20284722	6680846	10.375	9.001
14) MA	Dieldrin	5.329	6.722	24383700	8179138	9.869	9.907
15) MA	Endrin	5.669	7.268	22499687	7361055	10.050	10.090
16) A	4,4'-DDD	5.819	7.486	17048800	6490184	10.021	9.535
17) B	Endosulfa...	6.012	7.651	21694944	7251064	9.668	9.617
18) MA	4,4'-DDT	6.271	8.067	18518529	5289508	10.320	11.718
19) B	Endrin Al...	6.683	8.278	18265453	5955880	10.072	9.815
20) B	Endosulfa...	7.421	8.794	19301744	6486062	10.002	10.248
21) A	Methoxychlor	7.135	9.446	11312265	3108135	11.108	13.018
22)	Mirex	7.269	9.758	20572192	6449510	9.710	10.039
23) B	Endrin Ke...	7.894	9.842	22629233	7375618	10.733	10.899

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

11.6.19 11

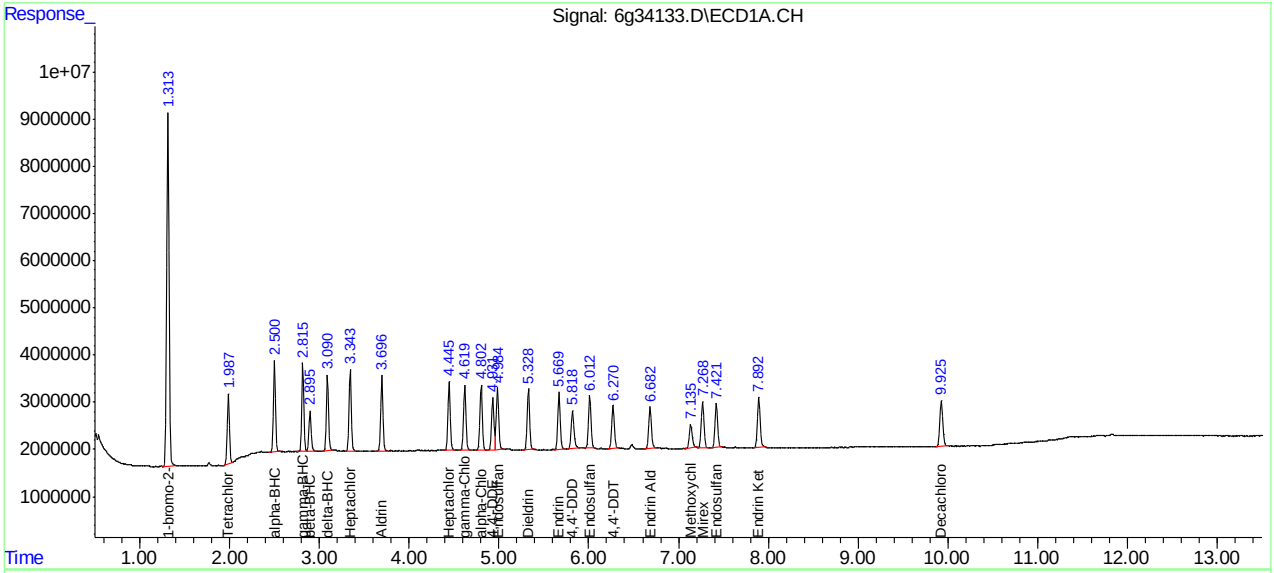
SGS ACCUTEST JC20098

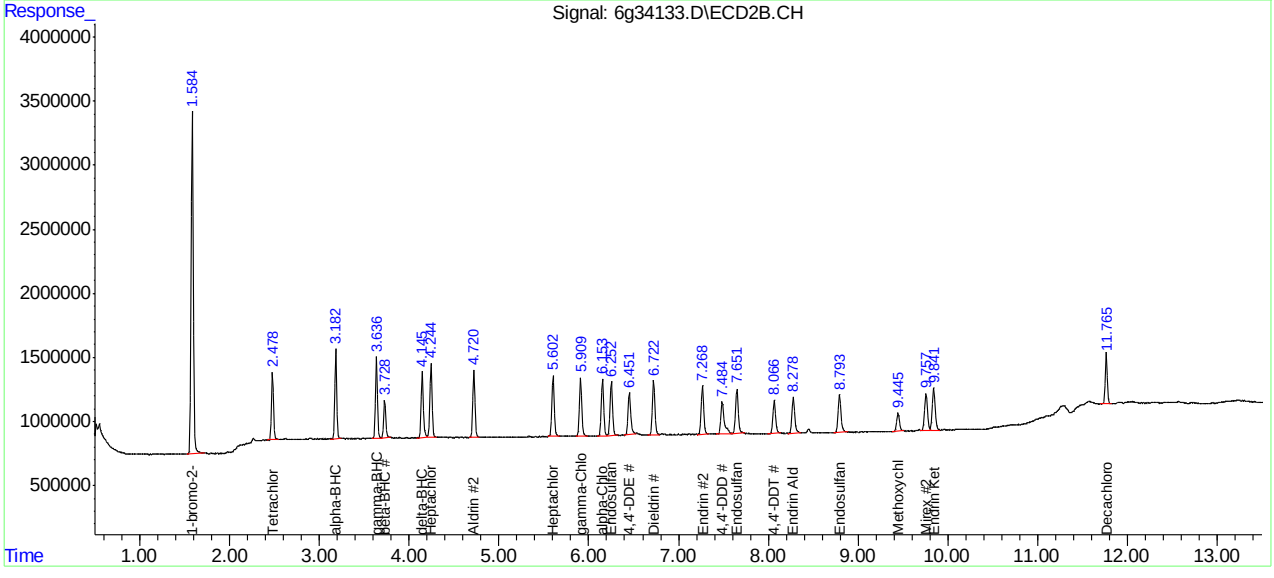
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34133.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 4:38 pm
Operator : dharas
Sample : ic987-10
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 11:18:37 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34134.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 4:55 pm
Operator : dharas
Sample : icc987-25
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 11:18:49 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.315	1.585	144.2E6	47033284	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	1.988	2.479	63645253	20425732	24.970	23.499
Spiked Amount		40.000	Range	30 - 150	Recovery	= 62.42%	58.75%
24) SAB	Decachlor...	9.927	11.764	55812131	15912280	24.536	24.791
Spiked Amount		40.000			Recovery	= 61.34%	61.98%
	Target Compounds						
3) A	alpha-BHC	2.501	3.183	84593859	26723168	26.461	25.101
4) MA	gamma-BHC	2.816	3.635	78582131	24936233	26.519	25.343
5) MA	Heptachlor	3.344	4.244	77647336	24523131	26.770	25.793
6) B	beta-BHC	2.895	3.728	38087675	11976851	26.007	24.561
7) B	delta-BHC	3.090	4.145	74464379	23208614	28.106	26.248
8) MB	Aldrin	3.696	4.721	71712233	23088257	26.222	25.047
9) B	Heptachlo...	4.445	5.603	67188984	21873984	25.889	25.305
10) B	gamma-Chl...	4.619	5.909	67637552	21033552	25.387	24.900
11) B	alpha-Chl...	4.801	6.153	67145569	20973298	25.652	24.780
12) A	Endosulfan I	4.984	6.252	65821217	20159813	24.640	24.433
13) B	4,4'-DDE	4.930	6.451	55200055	16712128	27.505	21.983
14) MA	Dieldrin	5.328	6.723	65244285	20507457	25.727	24.253
15) MA	Endrin	5.669	7.266	59357359	18498356	25.831	24.757
16) A	4,4'-DDD	5.819	7.485	45641463	16010720	26.137	22.966
17) B	Endosulfa...	6.010	7.649	57239557	18057776	24.851	23.383
18) MA	4,4'-DDT	6.269	8.066	50891758	14037689	27.629	30.363
19) B	Endrin Al...	6.682	8.279	47230230	14927948	25.373	24.018
20) B	Endosulfa...	7.419	8.793	50672464	15893200	25.582	24.517
21) A	Methoxychlor	7.135f	9.444f	31258519	8030389	29.903	32.838
22)	Mirex	7.268	9.756	52645396	15470703	24.209	23.512
23) B	Endrin Ke...	7.893	9.841f	61681398	18563884	28.503	26.782

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

11.6.20 11

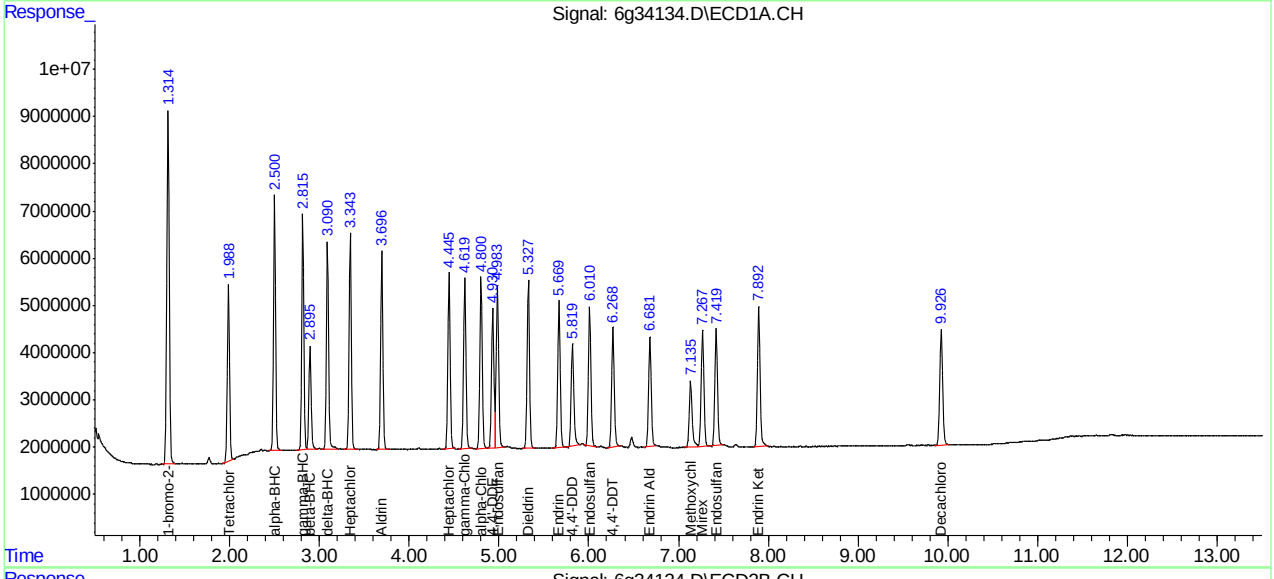
SGS ACCUTEST JC20098

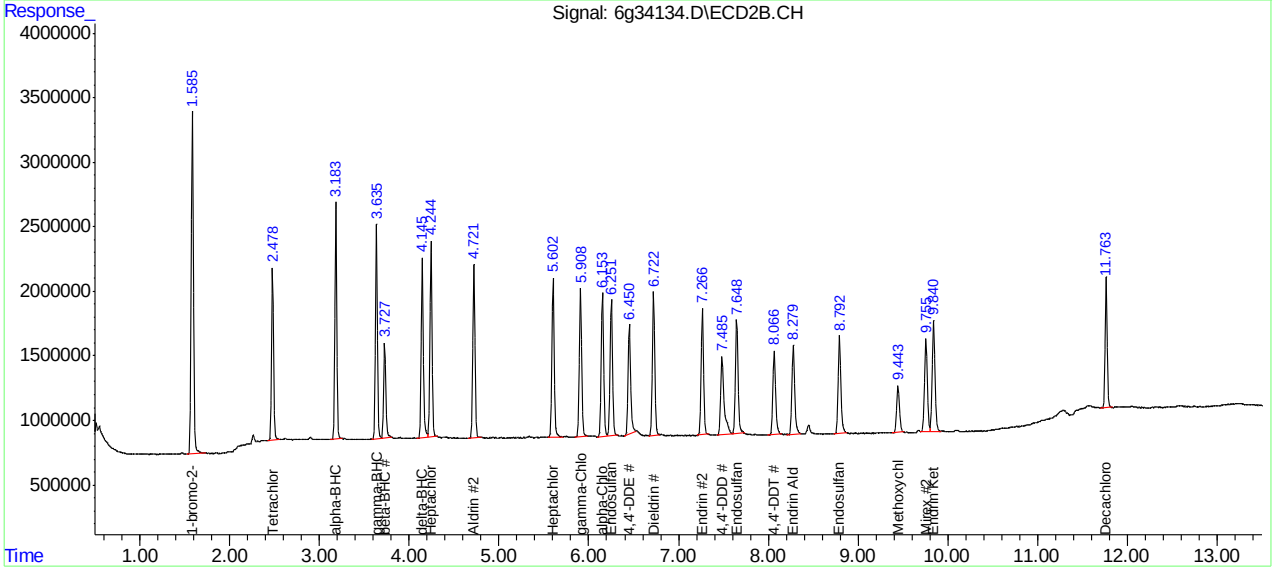
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34134.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 4:55 pm
Operator : dharas
Sample : icc987-25
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 11:18:49 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34135.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 5:11 pm
Operator : dharas
Sample : ic987-50
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 11:19:01 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.314	1.585	142.7E6	46649119	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	1.988	2.478	128.5E6	40284945	50.949	46.728
Spiked Amount		40.000	Range	30 - 150	Recovery	= 127.37%	116.82%
24) SAB	Decachlor...	9.925	11.763	108.7E6	31076249	48.273	48.814
Spiked Amount		40.000			Recovery	= 120.68%	122.04%
	Target Compounds						
3) A	alpha-BHC	2.501	3.183	182.7E6	55587963	57.741	52.643
4) MA	gamma-BHC	2.816	3.636	166.5E6	51304864	56.774	52.570
5) MA	Heptachlor	3.343	4.244	161.4E6	50151025	56.220	53.182
6) B	beta-BHC	2.895	3.727	75958143	24516481	52.404	50.690
7) B	delta-BHC	3.090	4.145	160.4E6	48099314	61.164	54.847
8) MB	Aldrin	3.696	4.721	150.9E6	46332889	55.762	50.677
9) B	Heptachlo...	4.444	5.602	138.5E6	43160248	53.903	50.341
10) B	gamma-Chl...	4.619	5.909	140.3E6	42029500	53.189	50.166
11) B	alpha-Chl...	4.801	6.153	137.8E6	41514883	53.193	49.455
12) A	Endosulfan I	4.984	6.252	135.3E6	40039193	51.179	48.926
13) B	4,4'-DDE	4.931	6.452	117.7E6	37863127	59.271	50.214
14) MA	Dieldrin	5.328	6.722	136.4E6	41112386	54.346	49.021
15) MA	Endrin	5.669	7.266	123.5E6	37204386	54.308	50.202
16) A	4,4'-DDD	5.817	7.485	99644782	32810805	57.654	47.452
17) B	Endosulfa...	6.011	7.649	121.6E6	37437820	53.336	48.878
18) MA	4,4'-DDT	6.271	8.065	106.4E6	29173841	58.383	63.623
19) B	Endrin Al...	6.682	8.278	96135294	30002664	52.182	48.669
20) B	Endosulfa...	7.420	8.792f	103.7E6	31655587	52.894	49.235
21) A	Methoxychlor	7.134f	9.443f	62221581	16358936	60.141	67.447
22)	Mirex	7.267	9.756	102.6E6	29870142	47.691	45.770
23) B	Endrin Ke...	7.894	9.841f	127.4E6	37439358	59.481	54.458

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

11.6.21 11

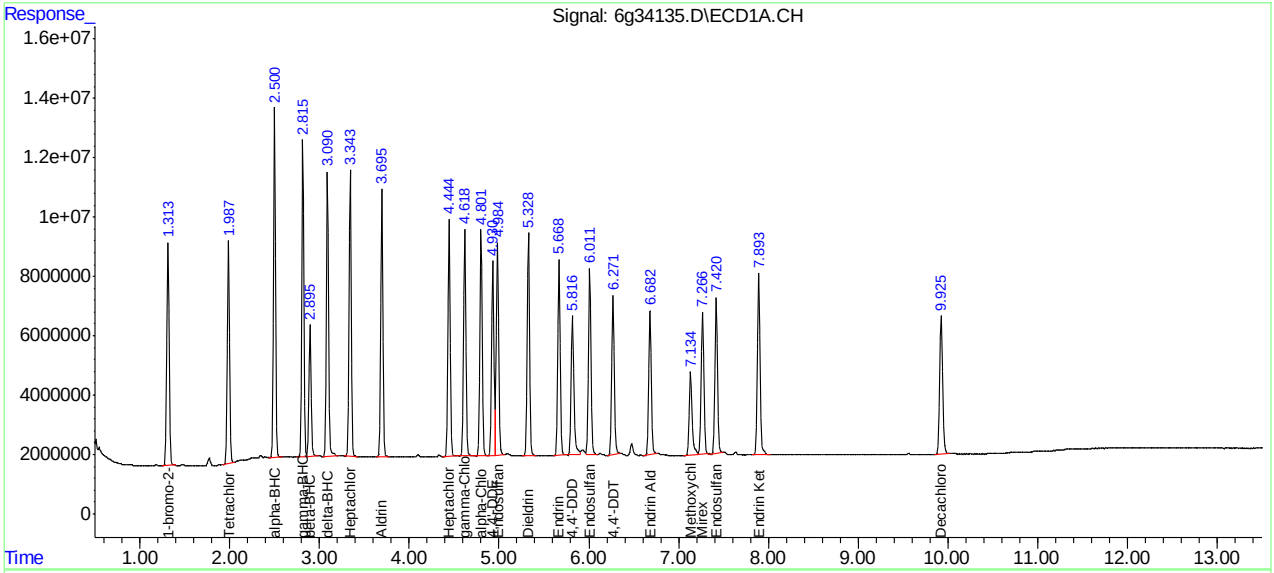
SGS ACCUTEST JC20098

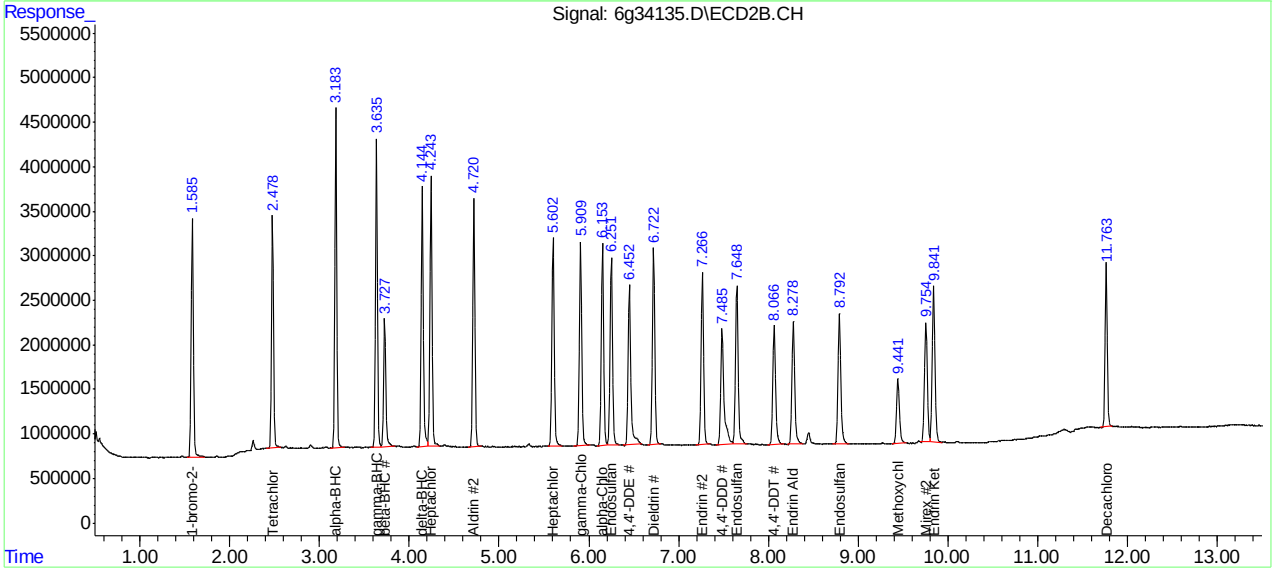
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34135.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 5:11 pm
Operator : dharas
Sample : ic987-50
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 11:19:01 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





SGS ACCUTEST JC20098

6G34136.D

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 04/18/16 14:12

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34136.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 5:27 pm
Operator : dharas
Sample : ic987-75
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 11:19:15 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.313	1.584	142.3E6	46534682	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	1.987	2.478	196.0E6	61034979	77.960	70.971
	Spiked Amount 40.000	Range	30 - 150	Recovery	=	194.90%#	177.43%#
24) SAB	Decachlor...	9.924	11.764	161.9E6	45025212	72.177	70.899
	Spiked Amount 40.000			Recovery	=	180.44%	177.25%
	Target Compounds						
3) A	alpha-BHC	2.501	3.183	287.2E6	86390406	91.093	82.014
4) MA	gamma-BHC	2.816	3.636	259.7E6	79013987	88.861	81.162
5) MA	Heptachlor	3.343	4.244	249.5E6	75927971	87.193	80.715
6) B	beta-BHC	2.895	3.728	114.2E6	36350302	79.034	75.343
7) B	delta-BHC	3.089	4.146	244.9E6	74588741	93.731	85.262
8) MB	Aldrin	3.695	4.721	235.4E6	70722867	87.268	77.544
9) B	Heptachlo...	4.444	5.603	212.7E6	65014462	83.094	76.018
10) B	gamma-Chl...	4.619	5.909	216.5E6	63493244	82.383	75.971
11) B	alpha-Chl...	4.800	6.153	211.9E6	62505590	82.087	74.643
12) A	Endosulfan I	4.984	6.251	210.1E6	60303594	79.727	73.870
13) B	4,4'-DDE	4.931	6.451	184.7E6	55949391	93.299	74.382m
14) MA	Dieldrin	5.327	6.723	212.9E6	62341957	85.094	74.518
15) MA	Endrin	5.669	7.266	191.4E6	56468294	84.449	76.383
16) A	4,4'-DDD	5.818	7.484f	153.6E6	49146684	89.174	71.253
17) B	Endosulfa...	6.011	7.650	185.7E6	56464399	81.741	73.899
18) MA	4,4'-DDT	6.270	8.066	166.3E6	44795721	91.513	97.931
19) B	Endrin Al...	6.682	8.277	147.3E6	45061219	80.230	73.276
20) B	Endosulfa...	7.420	8.793	159.4E6	47550936	81.583	74.139
21) A	Methoxychlor	7.134f	9.445f	93942612	24830275	91.112	102.626
22)	Mirex	7.268	9.756	153.4E6	44250941	71.508	67.973
23) B	Endrin Ke...	7.894	9.841f	194.7E6	56960523	91.227	83.057

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

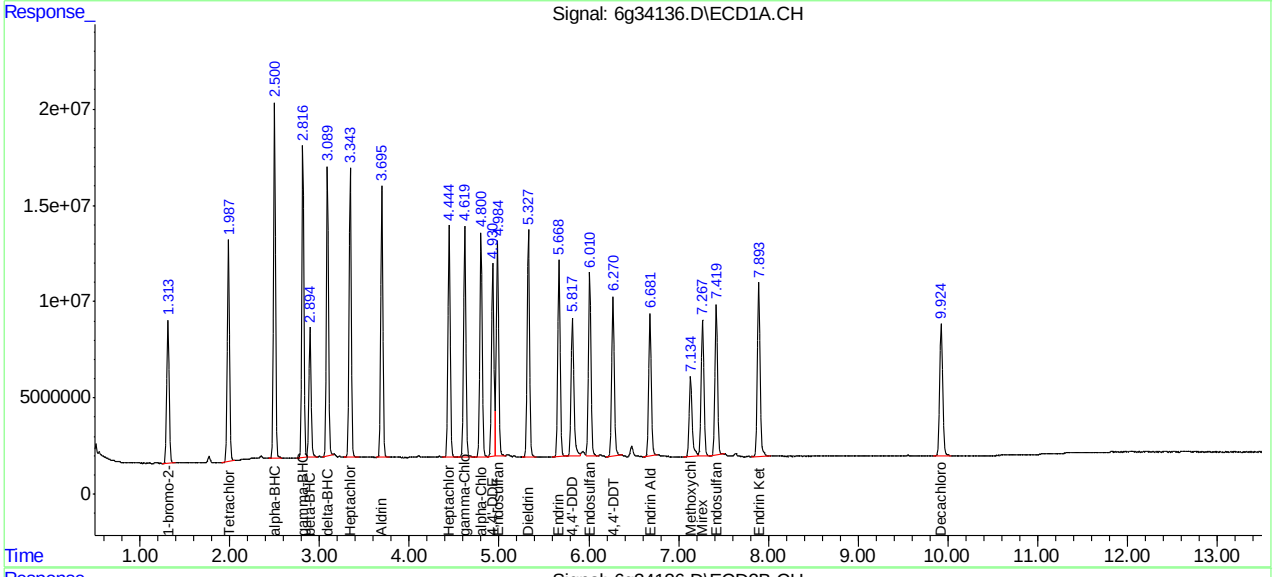
11.6.22 11

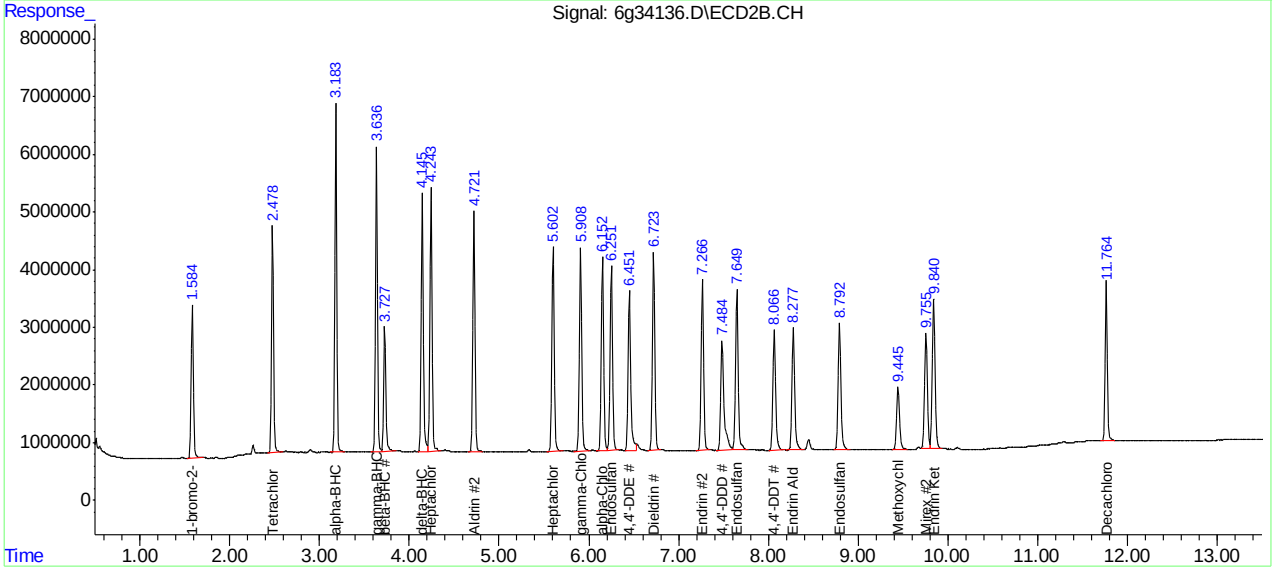
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34136.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 5:27 pm
Operator : dharas
Sample : ic987-75
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 11:19:15 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





Manual Integration Approval Summary

Sample Number:	G6G987-IC987	**Method:**	SW846 8081B
Lab FileID:	6G34136.D	**Analyst approved:**	04/18/16 12:23 Dhara Saparia
Injection Time:	04/14/16 17:27	**Supervisor approved:**	04/18/16 14:12 Gwendolyn Burns

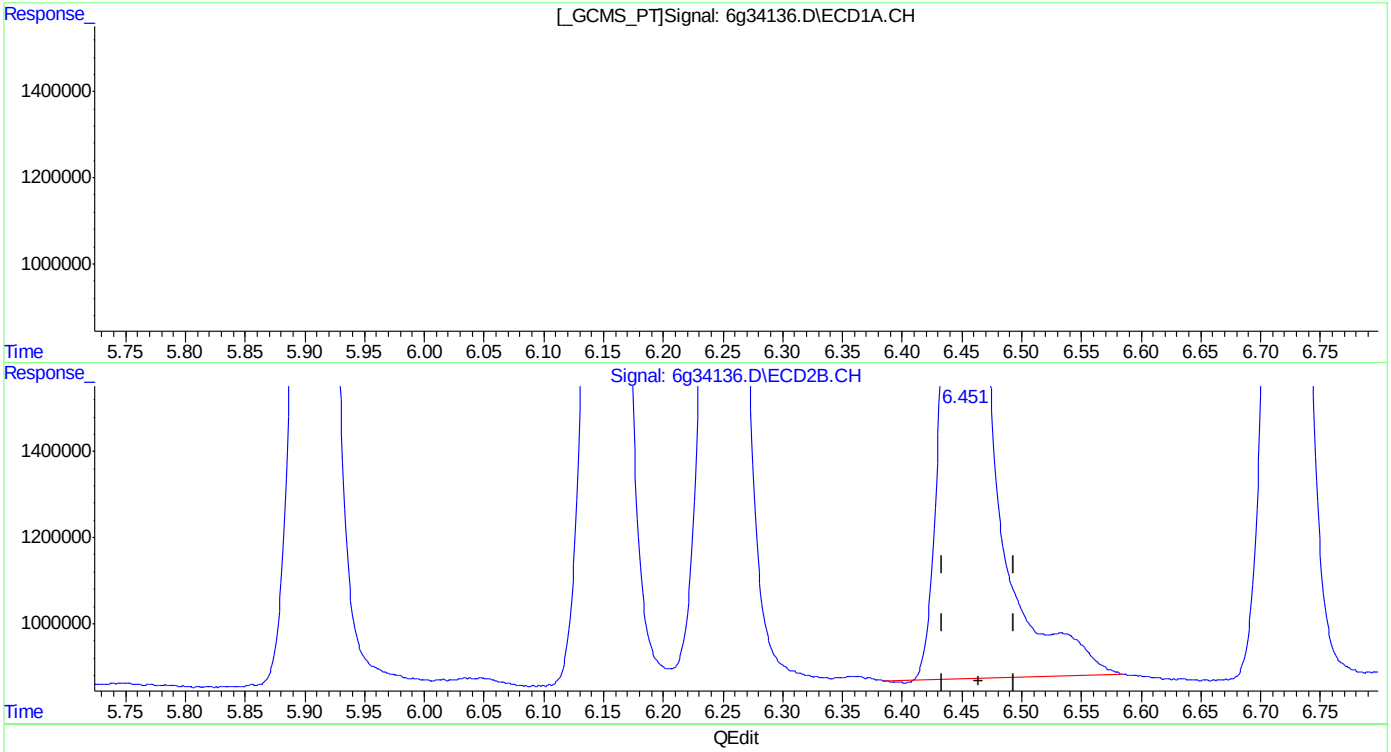
Parameter	CAS	Sig#	R.T. (min.)	Reason
4,4'-DDE	72-55-9	2	6.45	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34136.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 5:27 pm
Operator : dharas
Sample : ic987-75
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 10:24:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um



QEdit

(13) 4,4'-DDE (B)
4.931min 93.299PPB
response 184683755

(13) 4,4'-DDE #2 (B)
6.451min 76.395PPB
response 57463273

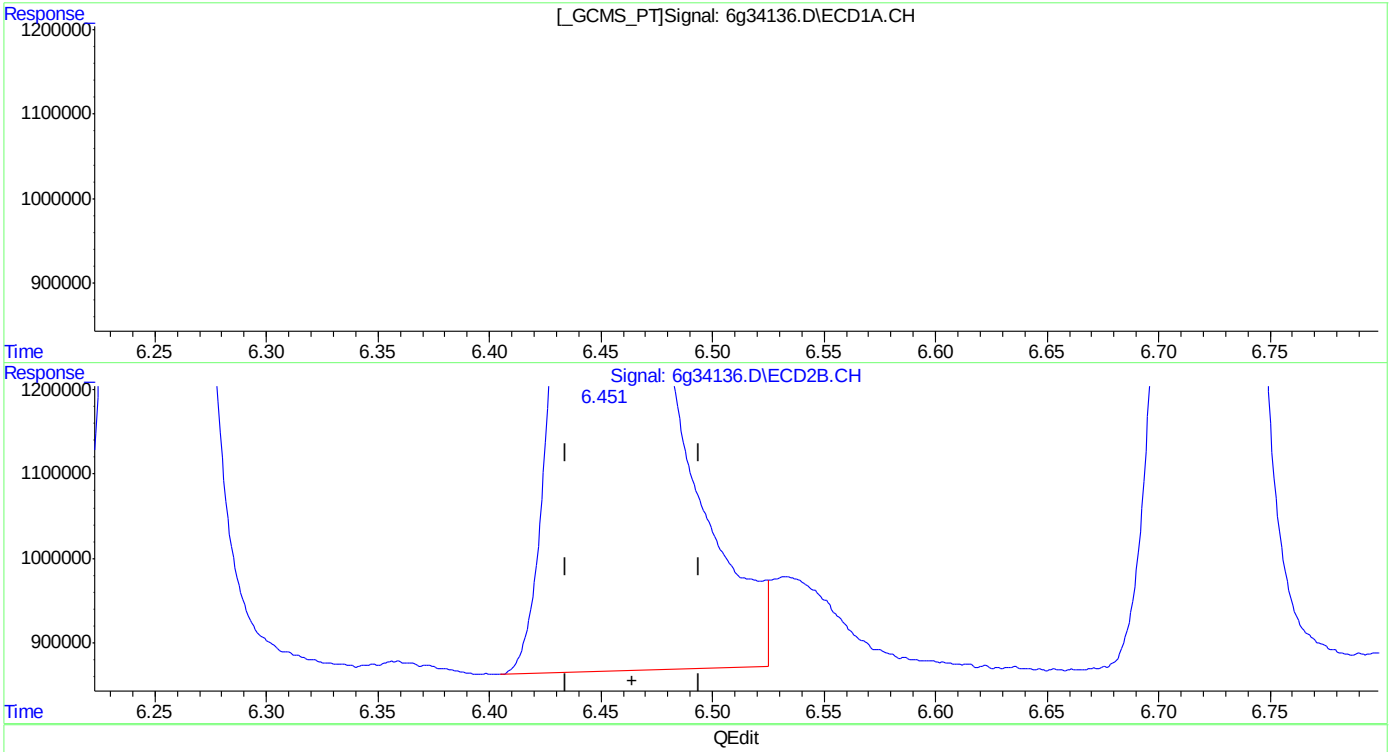
(+) = Expected Retention Time
6PST987.M Mon Apr 18 10:25:21 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34136.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 5:27 pm
Operator : dharas
Sample : ic987-75
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 10:24:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um



QEdit

(13) 4,4'-DDE (B)
4.931min 93.299PPB
response 184683755

(13) 4,4'-DDE #2 (B)
6.451min 74.382PPB m
response 55949391

(+) = Expected Retention Time

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 04/18/16 14:12

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34137.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 5:44 pm
Operator : dharas
Sample : ic987-100
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 11:19:28 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.313	1.584	144.2E6	47061020	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	1.987	2.478	272.5E6	83192568	106.915	95.654
Spiked Amount		40.000	Range	30 - 150	Recovery	= 267.29%#	239.14%#
24) SAB	Decachlor...	9.925	11.764	218.5E6	61817376	96.056	96.252
Spiked Amount		40.000			Recovery	= 240.14%	240.63%
	Target Compounds						
3) A	alpha-BHC	2.500	3.183	405.7E6	120.6E6	126.925	113.257
4) MA	gamma-BHC	2.814	3.635	363.8E6	109.3E6	122.801	111.008
5) MA	Heptachlor	3.343	4.244	347.0E6	103.8E6	119.655	109.162
6) B	beta-BHC	2.894	3.727	155.8E6	49110274	106.406	100.652
7) B	delta-BHC	3.089	4.145	345.0E6	103.0E6	130.262	116.398
8) MB	Aldrin	3.695	4.721	328.0E6	97370488	119.971	105.568
9) B	Heptachlo...	4.444	5.603	293.6E6	88909536	113.171	102.795
10) B	gamma-Chl...	4.618	5.909	299.9E6	86940726	112.581	102.863
11) B	alpha-Chl...	4.800	6.152	292.8E6	85054640	111.873	100.435
12) A	Endosulfan I	4.983	6.251	288.9E6	81968430	108.152	99.285
13) B	4,4'-DDE	4.931	6.452	258.4E6	77237419	128.766	101.535m
14) MA	Dieldrin	5.328	6.723	295.4E6	85669631	116.508	101.256
15) MA	Endrin	5.667	7.267	264.1E6	77041181	114.962	103.046
16) A	4,4'-DDD	5.818	7.484	214.3E6	66667046	122.739	95.573
17) B	Endosulfa...	6.011	7.649	257.1E6	76718084	111.662	99.284
18) MA	4,4'-DDT	6.270	8.066	237.9E6	61734502	129.179	133.453
19) B	Endrin Al...	6.683	8.277	208.9E6	60964018	112.232	98.027
20) B	Endosulfa...	7.419	8.792f	220.0E6	64603260	111.082	99.599
21) A	Methoxychlor	7.134f	9.444f	127.3E6	33797951	121.808	138.128
22)	Mirex	7.267	9.756	206.5E6	58928864	94.978	89.507
23) B	Endrin Ke...	7.893	9.841f	267.8E6	77889496	123.785	112.304

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

11.6.23 11

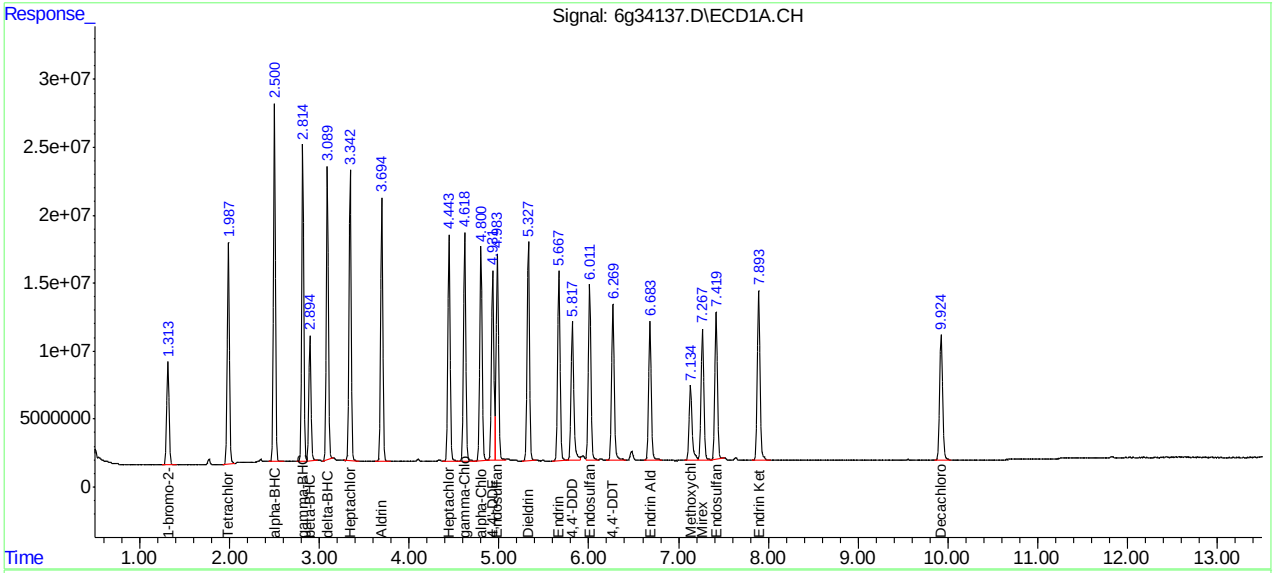
SGS ACCUTEST JC20098

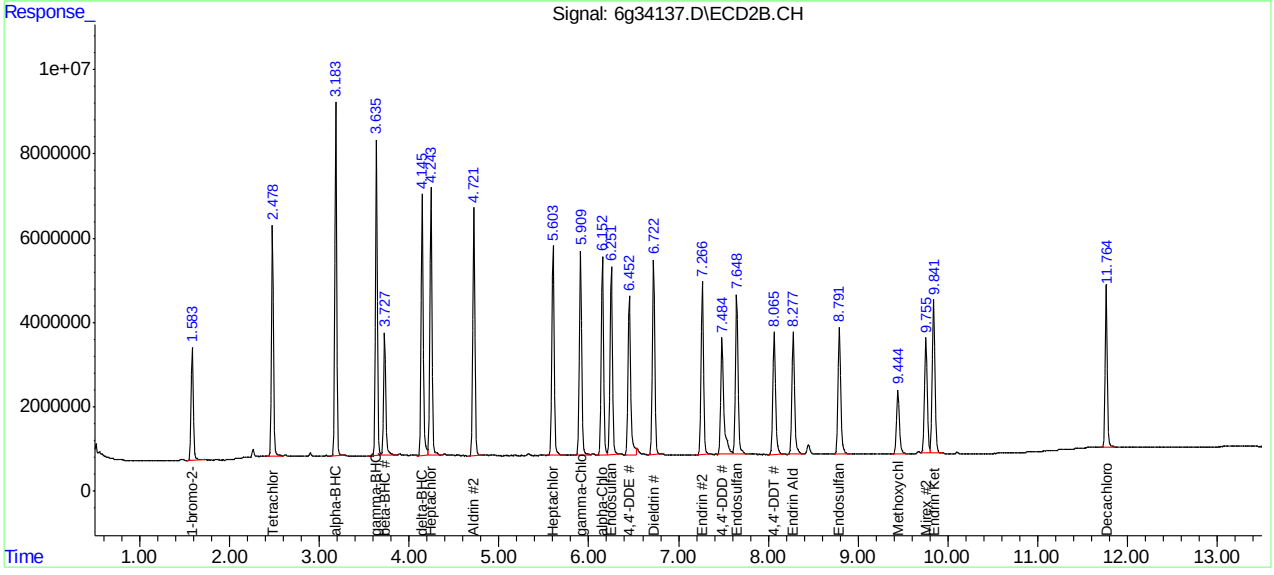
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34137.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 5:44 pm
Operator : dharas
Sample : ic987-100
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 11:19:28 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





Manual Integration Approval Summary

Sample Number:	G6G987-IC987	**Method:**	SW846 8081B
Lab FileID:	6G34137.D	**Analyst approved:**	04/18/16 12:23 Dhara Saparia
Injection Time:	04/14/16 17:44	**Supervisor approved:**	04/18/16 14:12 Gwendolyn Burns

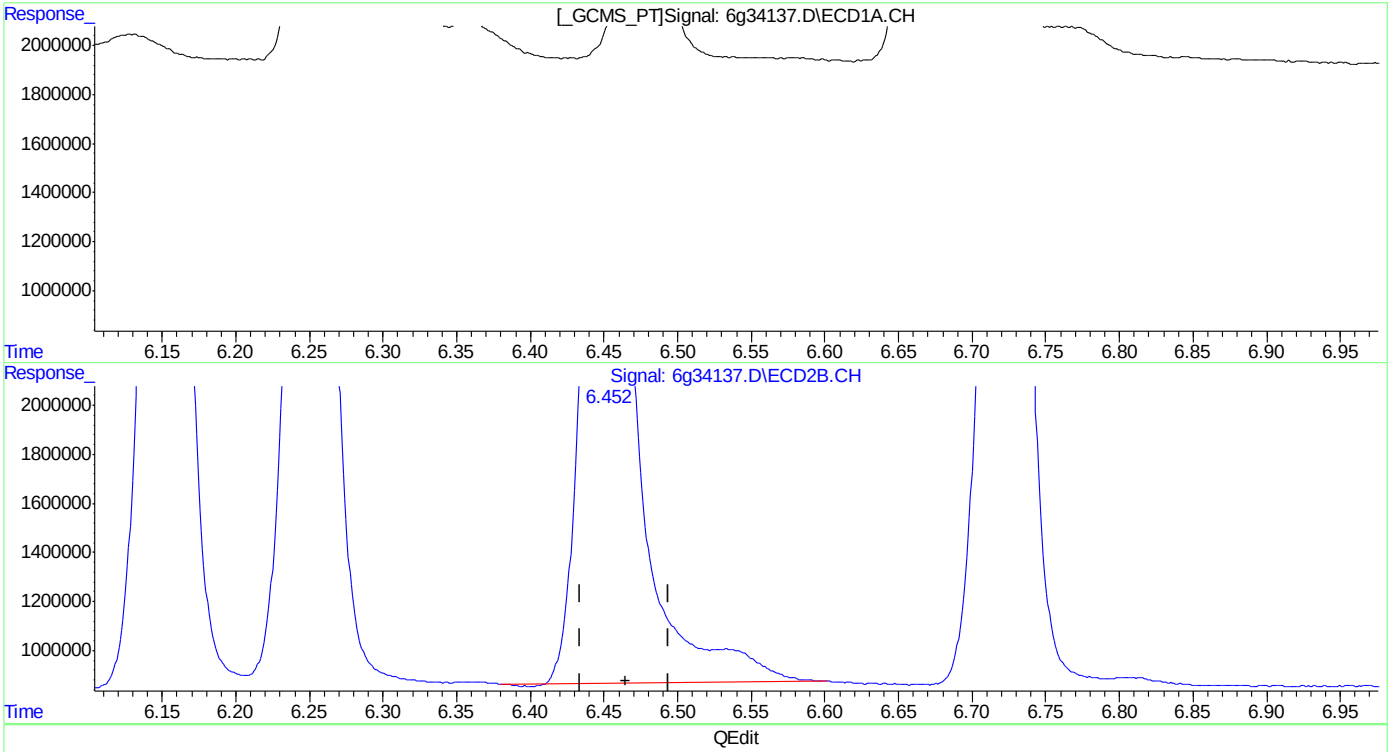
Parameter	CAS	Sig#	R.T. (min.)	Reason
4,4'-DDE	72-55-9	2	6.45	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34137.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 5:44 pm
Operator : dharas
Sample : ic987-100
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 10:25:53 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um



QEdit

(13) 4,4'-DDE (B)
4.931min 128.766PPB
response 258364552

(13) 4,4'-DDE #2 (B)
6.452min 103.914PPB
response 79046664

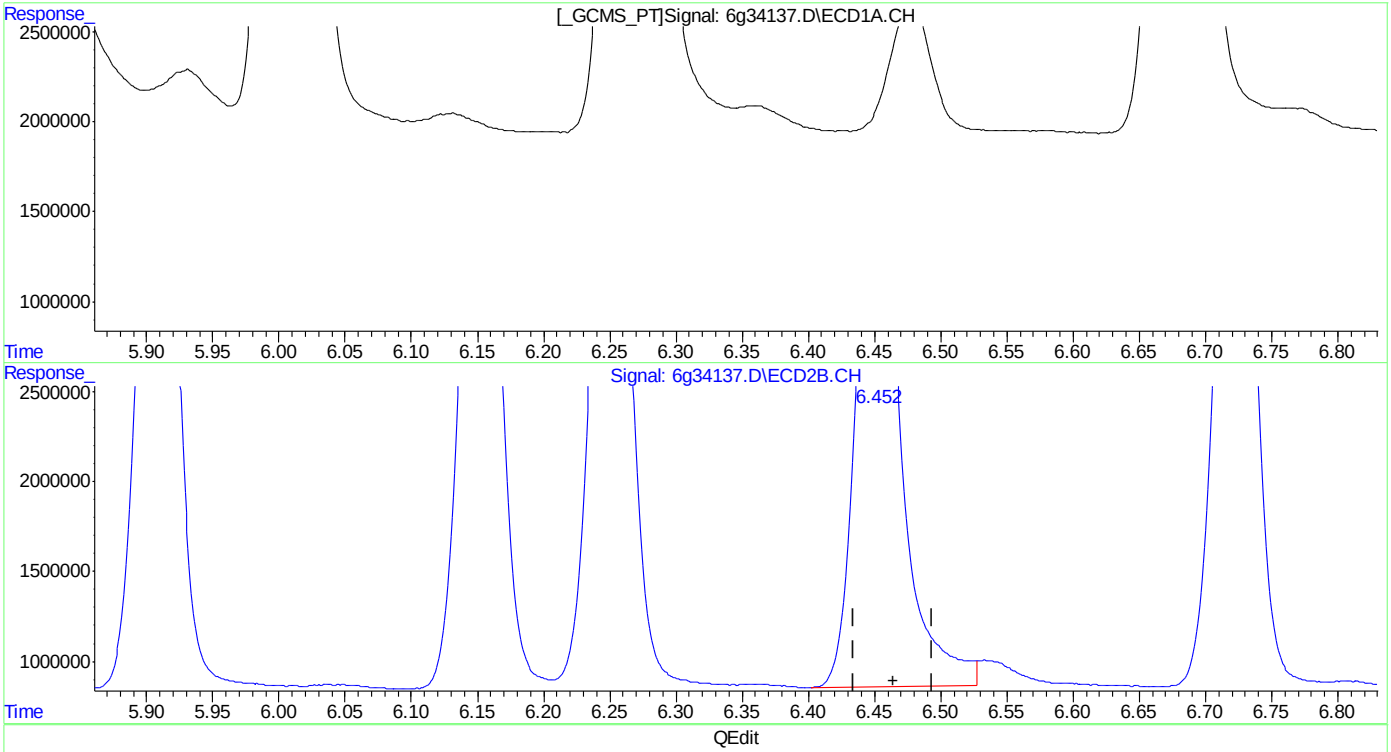
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34137.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 5:44 pm
Operator : dharas
Sample : ic987-100
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 10:25:53 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um



(13) 4,4'-DDE (B)
4.931min 128.766PPB
response 258364552

(13) 4,4'-DDE #2 (B)
6.452min 101.535PPB m
response 77237419

(+) = Expected Retention Time

Manual Integrations
APPROVED
(compounds with "m" flag)
Gwendolyn Burns
04/18/16 14:12

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34138.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 6:00 pm
Operator : dharas
Sample : ic987-500
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 11:20:42 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
31) I	1-bromo-2...	1.313	1.584	141.3E6	46235840	50.000	50.000
	System Monitoring Compounds						
	Target Compounds						
32)	Chlordane...	3.248	4.035	43632507	14394923	536.976	540.471
33)	Chlordane...	3.846	4.933	57942819	17415921	527.490	558.186
34)	Chlordane...	4.619	5.908	185.4E6	52343416	527.100	565.289
35)	Chlordane...	4.793	6.152	290.8E6	87553858	519.746	550.227m
36)	Chlordane...	5.916	7.734	45769339	13981389	536.773	553.249
	SemiQuant Compounds - Not Calibrated on this Instrument						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

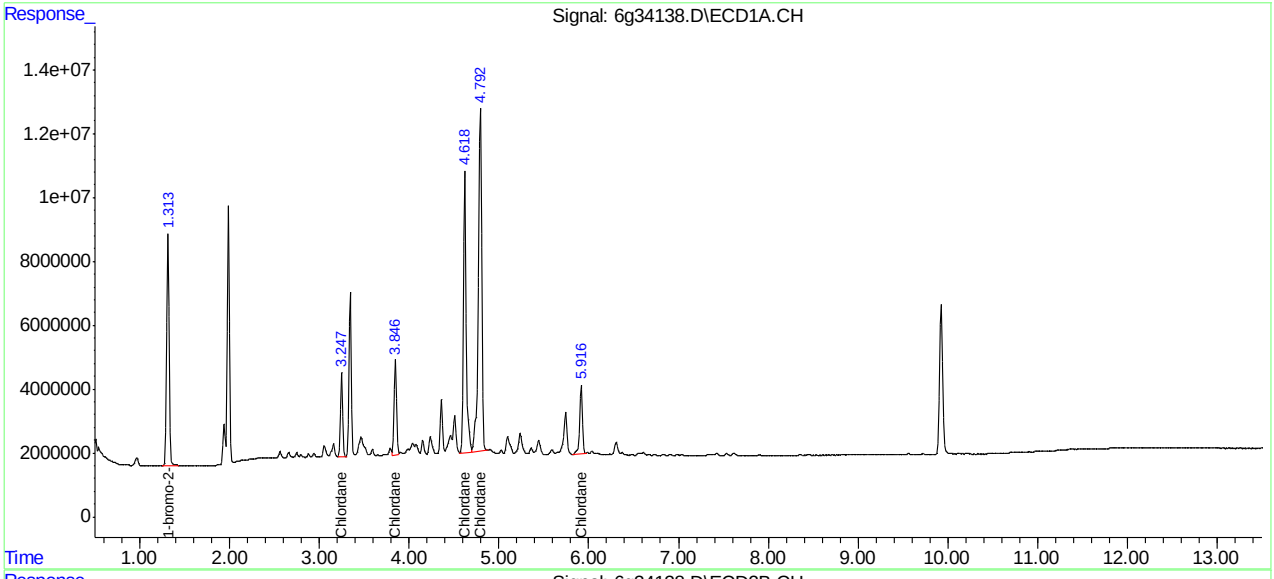
11.6.24
11

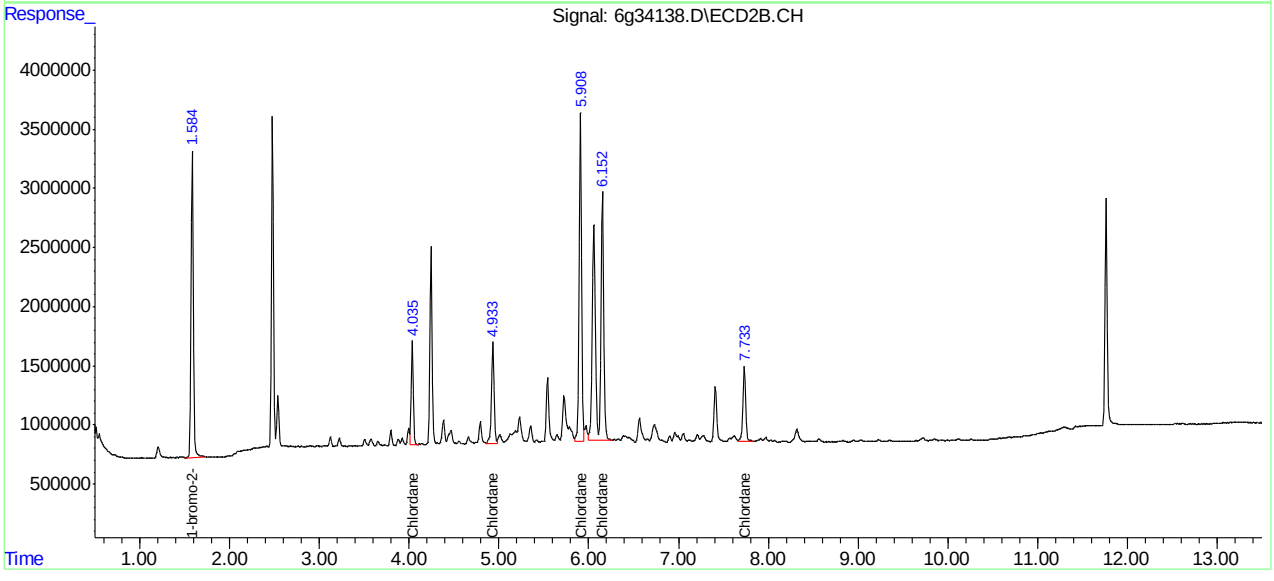
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34138.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 6:00 pm
Operator : dharas
Sample : ic987-500
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 11:20:42 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





SGS ACCUTEST JC20098

Manual Integration Approval Summary

Sample Number:	G6G987-IC987	**Method:**	SW846 8081B
Lab FileID:	6G34138.D	**Analyst approved:**	04/18/16 12:23 Dhara Saparia
Injection Time:	04/14/16 18:00	**Supervisor approved:**	04/18/16 14:12 Gwendolyn Burns

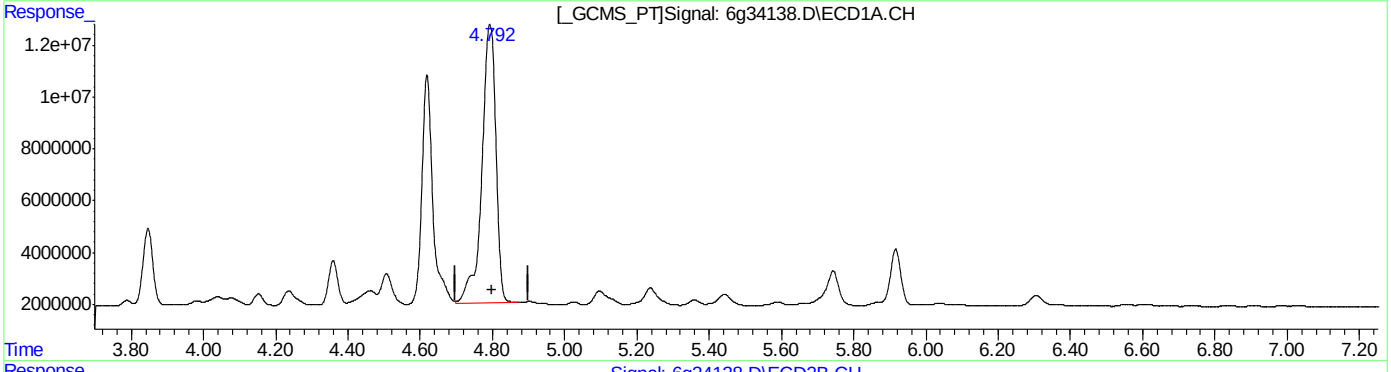
Parameter	CAS	Sig#	R.T. (min.)	Reason
Chlordane-D		2	6.15	Poor instrument integration

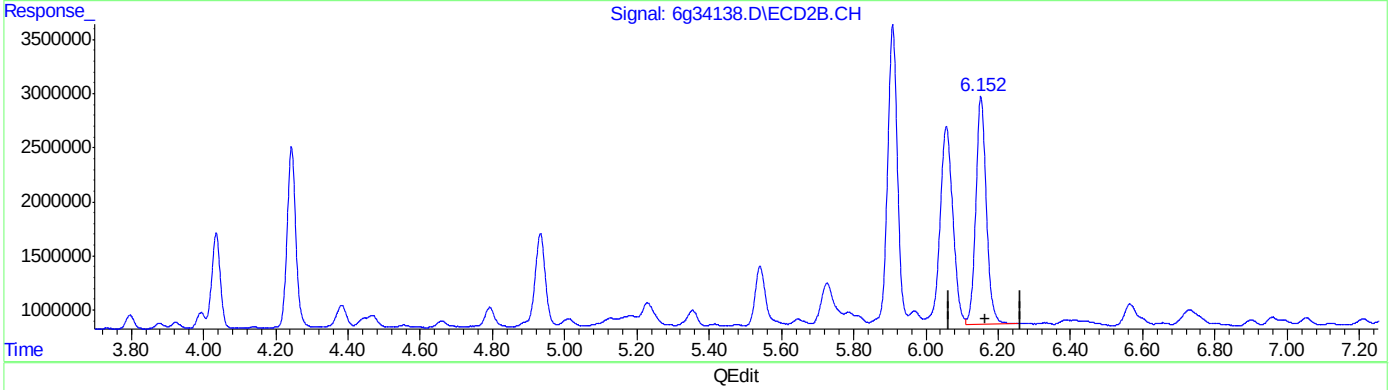
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34138.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 6:00 pm
Operator : dharas
Sample : ic987-500
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 10:57:37 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





QEdit

(35) Chlordane {D}
4.793min 519.746PPB
response 290776008

(35) Chlordane {D} #2
6.152min 267.305PPB
response 42534341

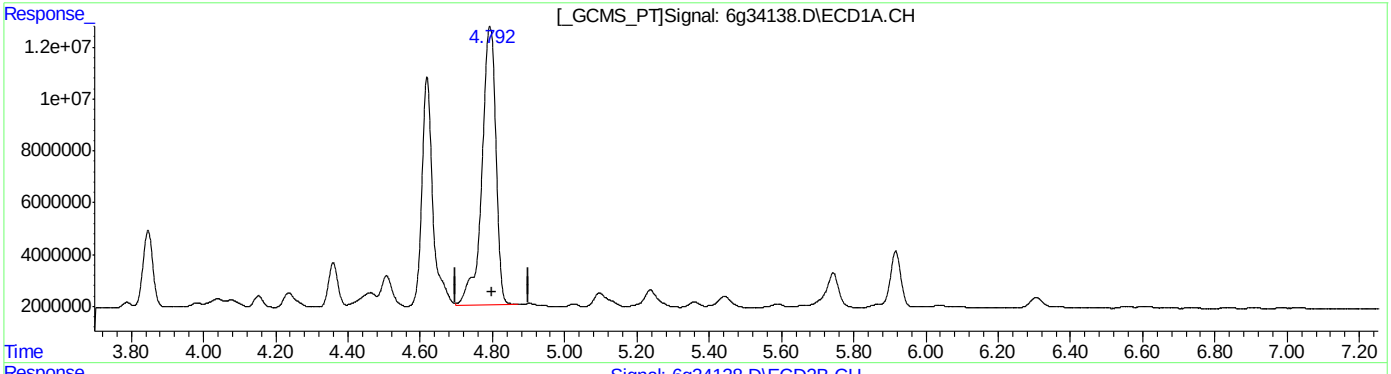
(+) = Expected Retention Time

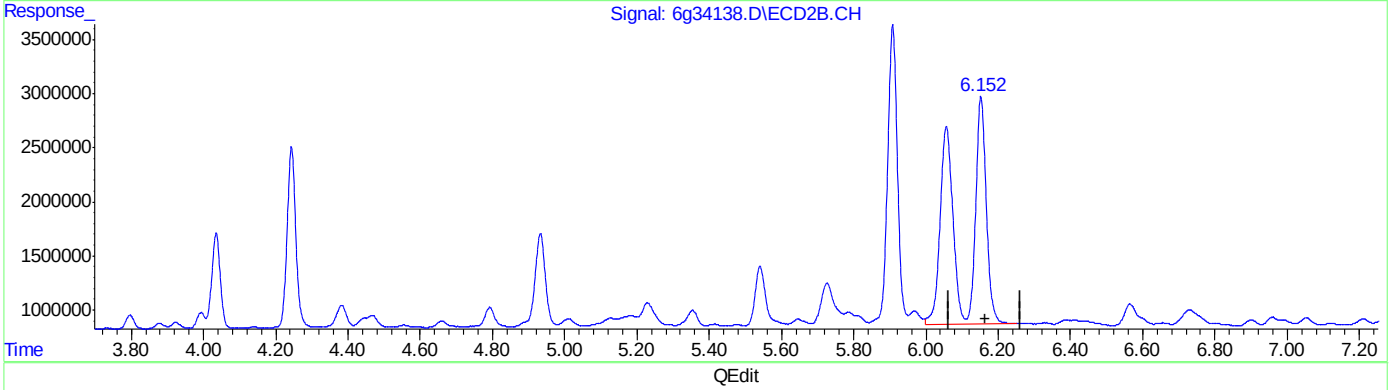
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34138.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 6:00 pm
Operator : dharas
Sample : ic987-500
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 10:57:37 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





QEdit

(35) Chlordane {D}
4.793min 519.746PPB
response 290776008

(35) Chlordane {D} #2
6.152min 550.227PPB m
response 87553858

(+) = Expected Retention Time
6PST987.M Mon Apr 18 10:58:50 2016

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34139.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 6:17 pm
Operator : dharas
Sample : ic987-500
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 11:21:05 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB	
	Internal Standards							
25) I	1-bromo-2...	1.314	1.584	145.3E6	47702945	50.000	50.000	
	System Monitoring Compounds							
	Target Compounds							
26) L8	Toxaphene{A}	5.337	6.690	19675744	6930166	478.099	595.711	
27) L8	Toxaphene{B}	5.731	7.617	41619408	12190780	531.705	784.503	#
28) L8	Toxaphene{C}	5.999	7.796	62803296	18739048	548.104	699.346	#
29) L8	Toxaphene{D}	6.560	8.280	35573856	12374350	424.850	688.687	#
30) L8	Toxaphene{E}	7.255	9.261	39819050	10533999	580.669	507.727	
	SemiQuant Compounds - Not Calibrated on this Instrument							

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

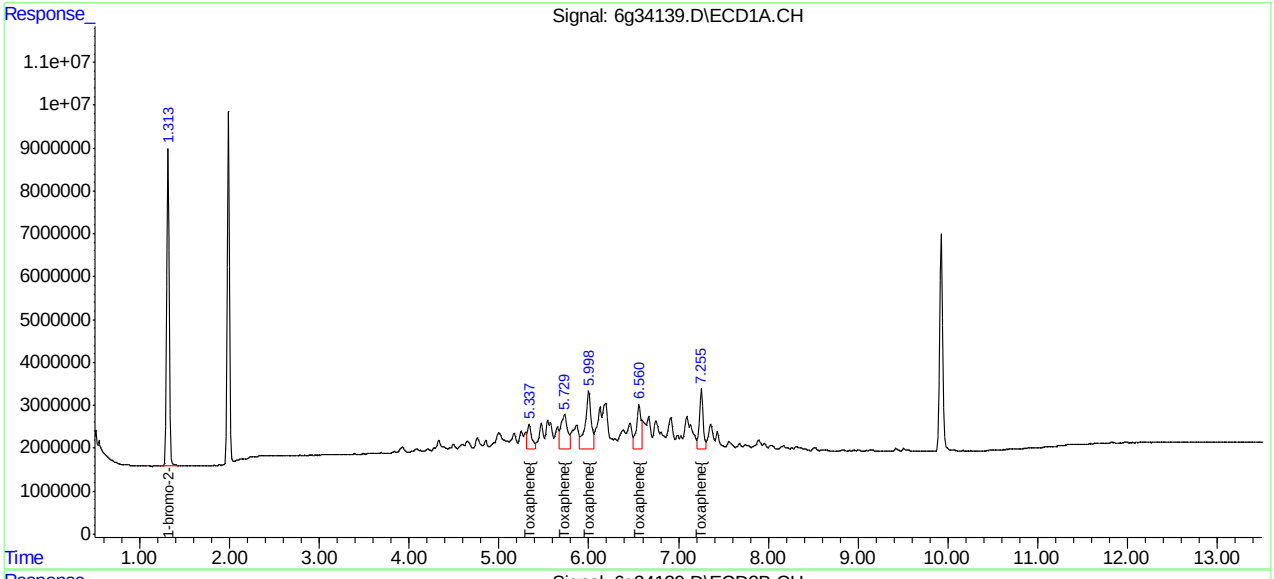
11.6.25 11

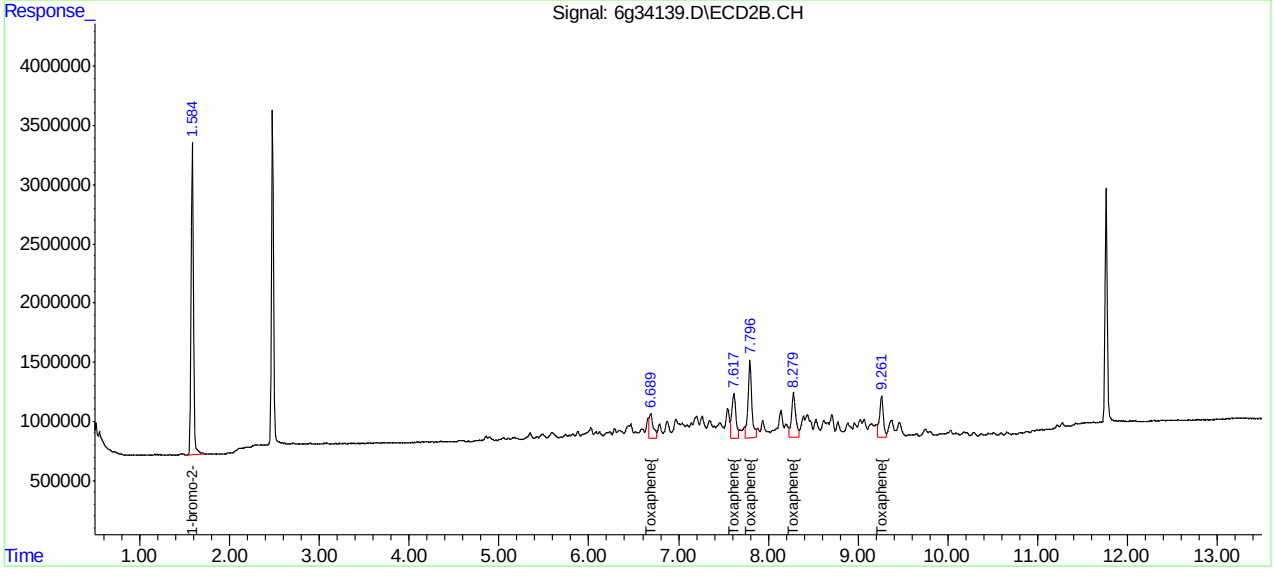
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34139.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 6:17 pm
Operator : dharas
Sample : ic987-500
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 11:21:05 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Thu Apr 07 09:58:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34140.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 6:33 pm
Operator : dharas
Sample : icv987-25
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 11:39:30 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon Apr 18 11:27:24 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.314	1.585	143.3E6	46907288	50.000	50.000
25) I	1-bromo-2...	1.314	1.585	143.3E6	46907288	50.000	50.000
31) I	1-bromo-2...	1.314	1.585	143.3E6	46907288	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	1.988	2.478	62613270	20284749	23.835	23.936
Spiked Amount		40.000	Range	30 - 150	Recovery	= 59.59%	59.84%
24) SAB	Decachlor...	9.925	11.763	55982390	16579682	24.508	26.020
Spiked Amount		40.000			Recovery	= 61.27%	65.05%
	Target Compounds						
3) A	alpha-BHC	2.500	3.183	79807546	25388616	23.566	22.995
4) MA	gamma-BHC	2.815	3.635	74989675	23788475	23.785	23.011
5) MA	Heptachlor	3.343	4.243	74379160	24001192	23.502	22.973
6) B	beta-BHC	2.896	3.727	36353972	11460022	23.490	22.753
7) B	delta-BHC	3.090	4.145	74876837	23152742	25.483	24.033
8) MB	Aldrin	3.695	4.721	68045936	22050506	23.280	22.698
9) B	Heptachlo...	4.444	5.602	64434942	21010231	23.545	23.203
10) B	gamma-Chl...	4.619	5.908	66180386	20595481	24.031	23.267
11) B	alpha-Chl...	4.802	6.152	64799028	20216502	23.708	22.989
12) A	Endosulfan I	4.984	6.251	62820581	19279971	23.281	22.567
13) B	4,4'-DDE	4.932	6.452	51425811	18223836	22.705	24.032
14) MA	Dieldrin	5.328	6.722	63166266	19889363	23.675	22.791
15) MA	Endrin	5.669	7.265	58737946	18090189	24.269	22.816
16) A	4,4'-DDD	5.820	7.486	45643277	15847702	23.837	24.216
17) B	Endosulfa...	6.011	7.649	56551622	18362029	23.682	23.678
18) MA	4,4'-DDT	6.271	8.067	49750841	13465744	23.887	22.669
19) B	Endrin Al...	6.683	8.278	49719390	15149595	25.545	24.095
20) B	Endosulfa...	7.420	8.793	51892156	15897904	24.744	23.296
21) A	Methoxychlor	7.136	9.444f	29611559	7915310	23.721	24.184
23) B	Endrin Ke...	7.895	9.841f	60928331	18412632	24.431	23.084

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

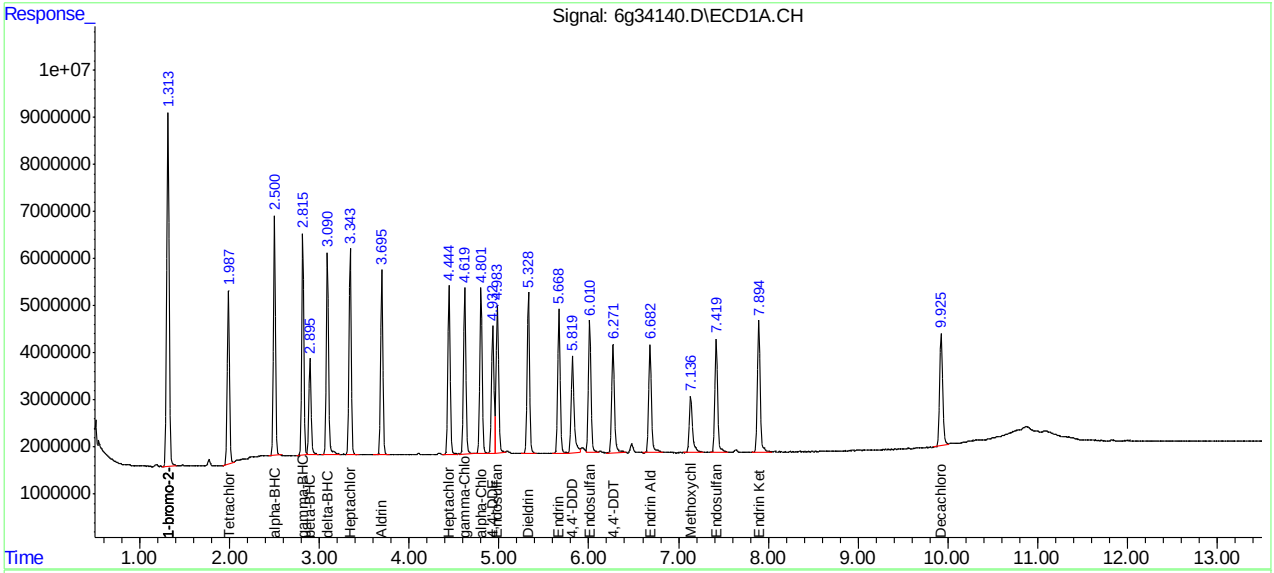
SGS ACCUTEST JC20098

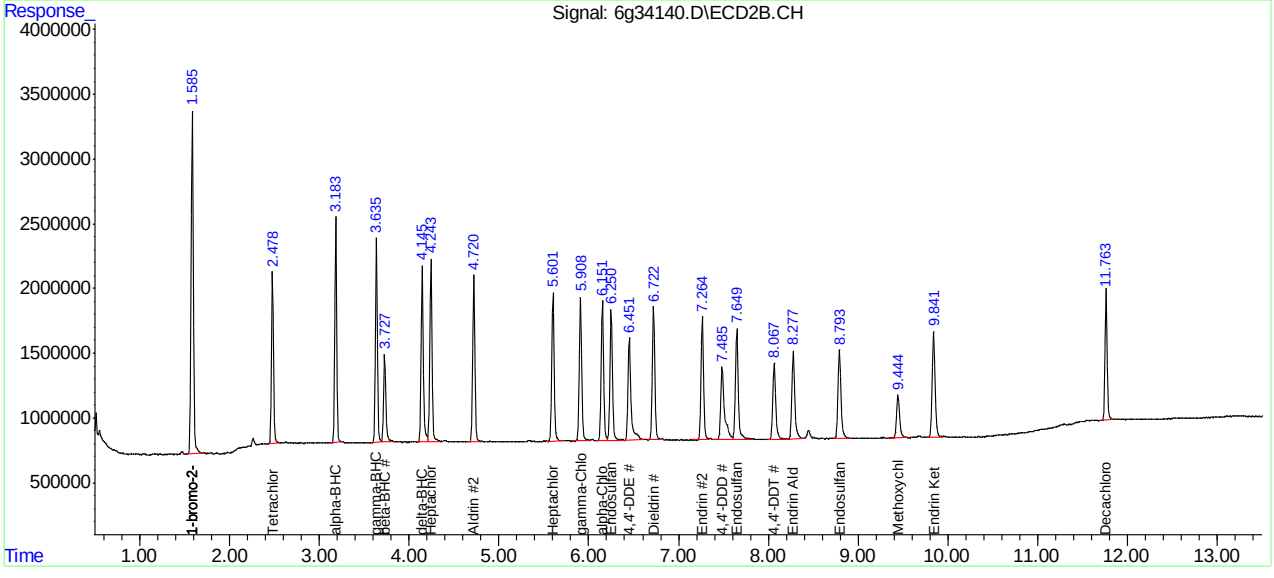
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34140.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 6:33 pm
Operator : dharas
Sample : icv987-25
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 11:39:30 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon Apr 18 11:27:24 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34141.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 6:49 pm
Operator : dharas
Sample : icv987-25
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 11:40:13 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon Apr 18 11:27:24 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.315	1.585	139.1E6	46174224	50.000	50.000
25) I	1-bromo-2...	1.315	1.585	139.1E6	46174224	50.000	50.000
31) I	1-bromo-2...	1.315	1.585	139.1E6	46174224	50.000	50.000
	System Monitoring Compounds						
	Target Compounds						
22)	Mirex	7.268	9.757	54152772	16665136	26.087	25.195
	SemiQuant Compounds - Not Calibrated on this Instrument						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

11.6.27 11

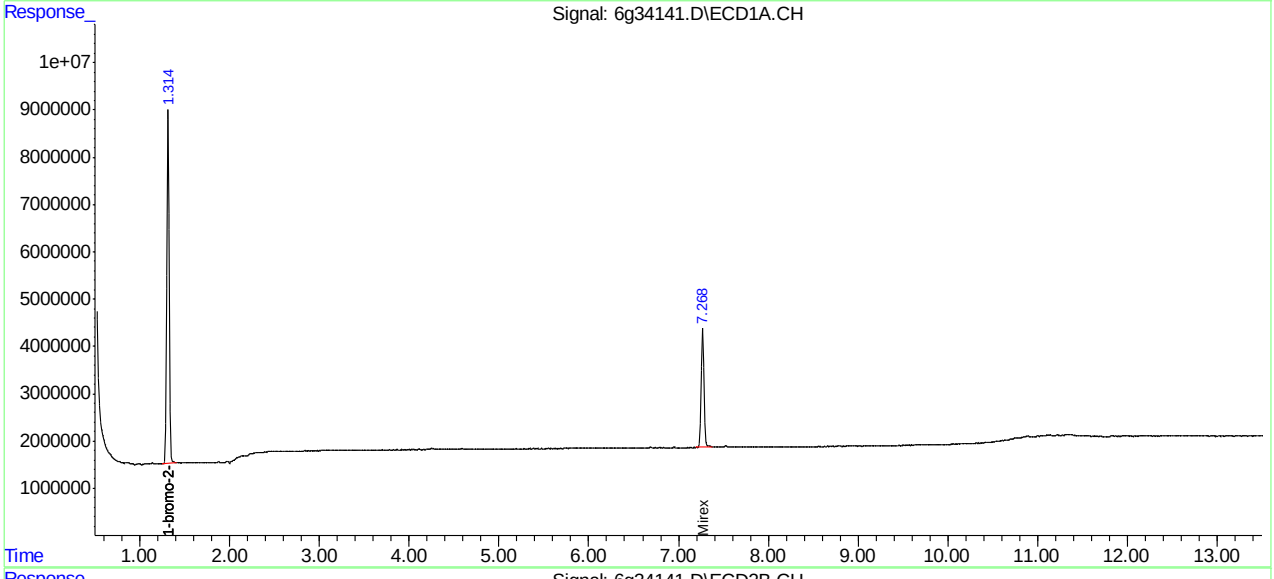
SGS ACCUTEST JC20098

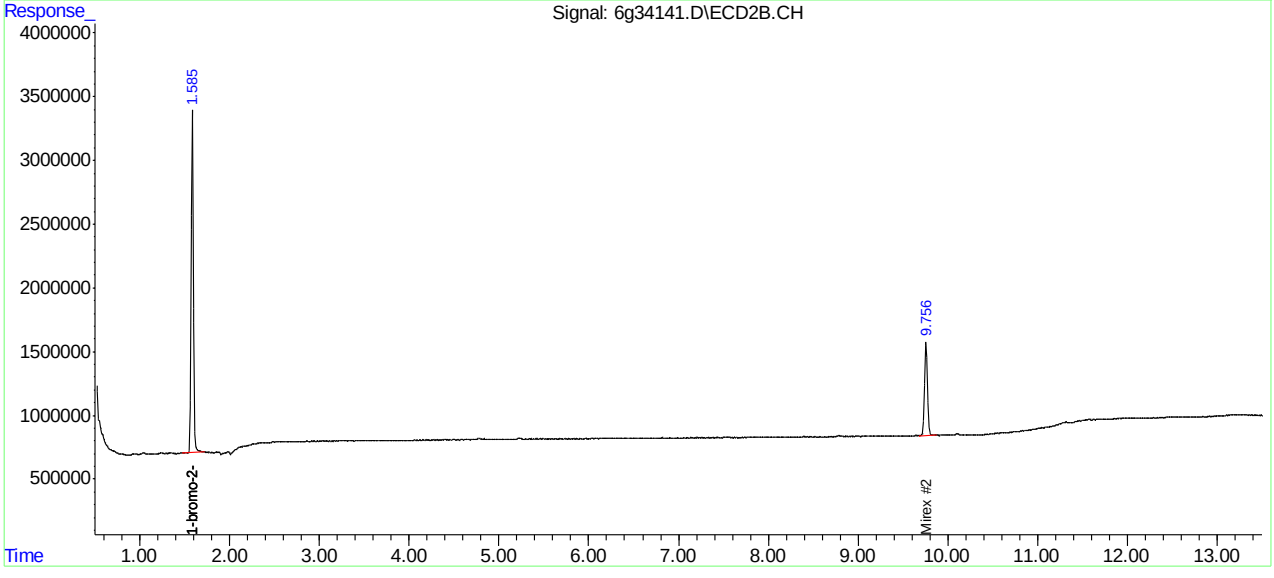
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34141.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 6:49 pm
Operator : dharas
Sample : icv987-25
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 11:40:13 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon Apr 18 11:27:24 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 04/18/16 14:12

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34142.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 7:06 pm
Operator : dharas
Sample : icv987-500
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 11:37:25 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon Apr 18 11:27:24 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.314	1.584	139.2E6	46593400	50.000	50.000
25) I	1-bromo-2...	1.314	1.584	139.2E6	46593400	50.000	50.000
31) I	1-bromo-2...	1.314	1.584	139.2E6	46593400	50.000	50.000
	System Monitoring Compounds						
2)	SAB Tetrachlo...	1.988	2.478	118.3E6	37474692	46.357	44.517
	Spiked Amount	40.000	Range	30 - 150	Recovery	= 115.89%	111.29%
24)	SAB Decachlor...	9.927	11.763	108.1E6	31302522	48.712	49.456
	Spiked Amount	40.000			Recovery	= 121.78%	123.64%
	Target Compounds						
32)	Chlordane...	3.249	4.035	49568251	16358202	576.655	563.833
33)	Chlordane...	3.847	4.932	55966212	17786680	490.285	506.726
34)	Chlordane...	4.619	5.908	178.9E6	51177548	489.814	485.112
35)	Chlordane...	4.793	6.152	291.0E6	87527557	507.996	496.014m
36)	Chlordane...	5.916	7.734	41796779	12665747	463.544	449.474
	SemiQuant Compounds - Not Calibrated on this Instrument						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

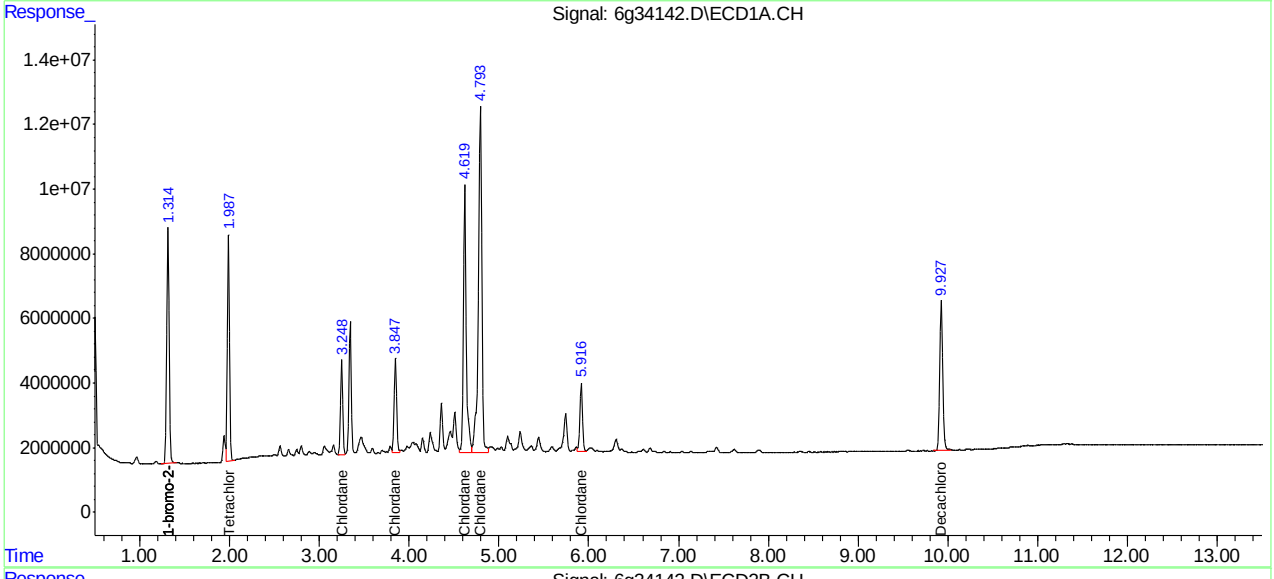
11.6.28 11

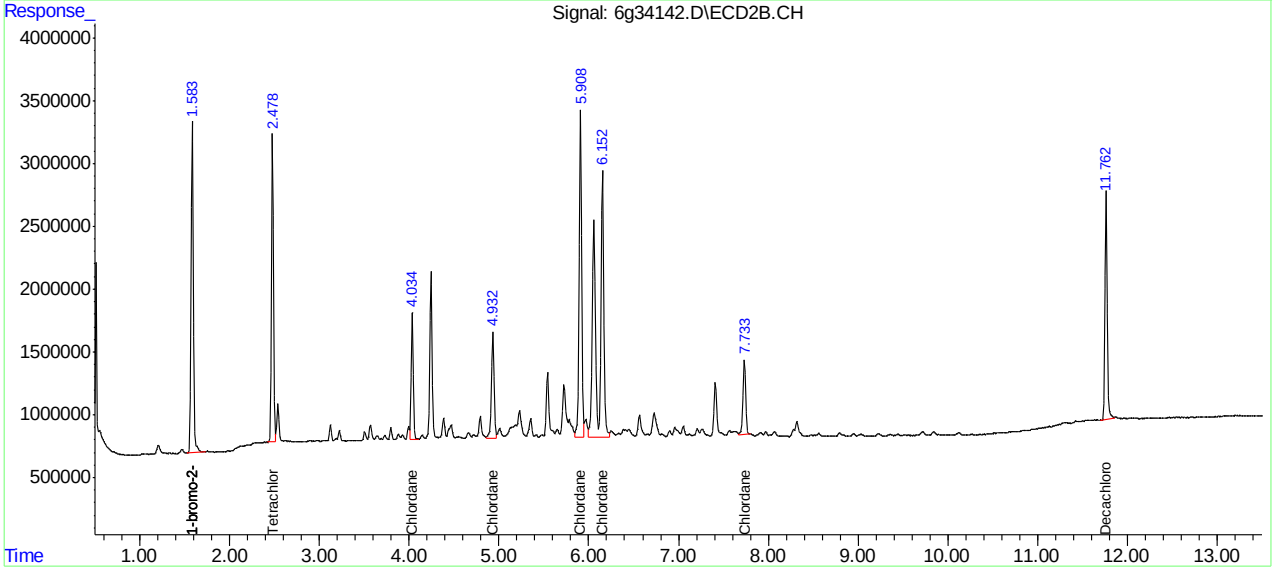
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34142.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 7:06 pm
Operator : dharas
Sample : icv987-500
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 11:37:25 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon Apr 18 11:27:24 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





SGS ACCUTEST JC20098

Manual Integration Approval Summary

Sample Number:	G6G987-ICV987	**Method:**	SW846 8081B
Lab FileID:	6G34142.D	**Analyst approved:**	04/18/16 12:23 Dhara Saparia
Injection Time:	04/14/16 19:06	**Supervisor approved:**	04/18/16 14:12 Gwendolyn Burns

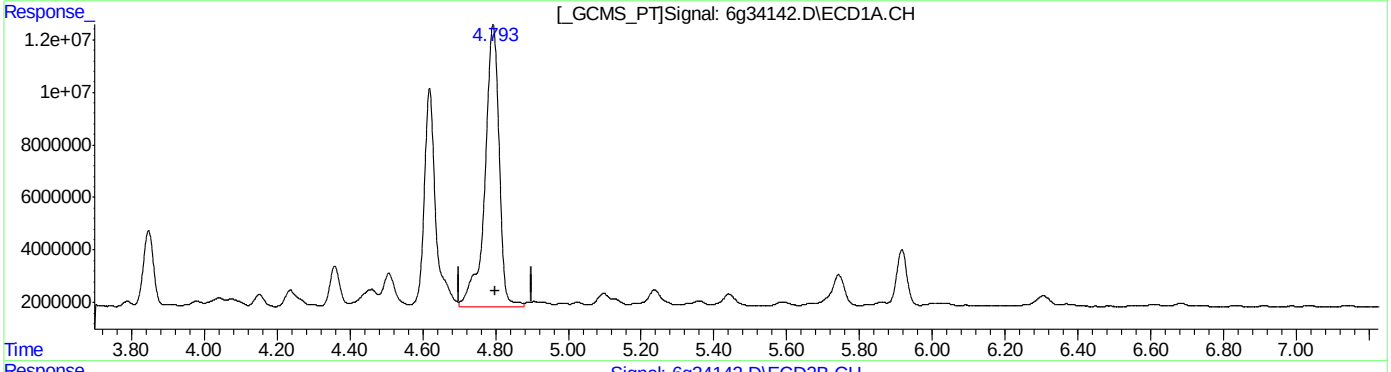
Parameter	CAS	Sig#	R.T. (min.)	Reason
Chlordane-D		2	6.15	Poor instrument integration

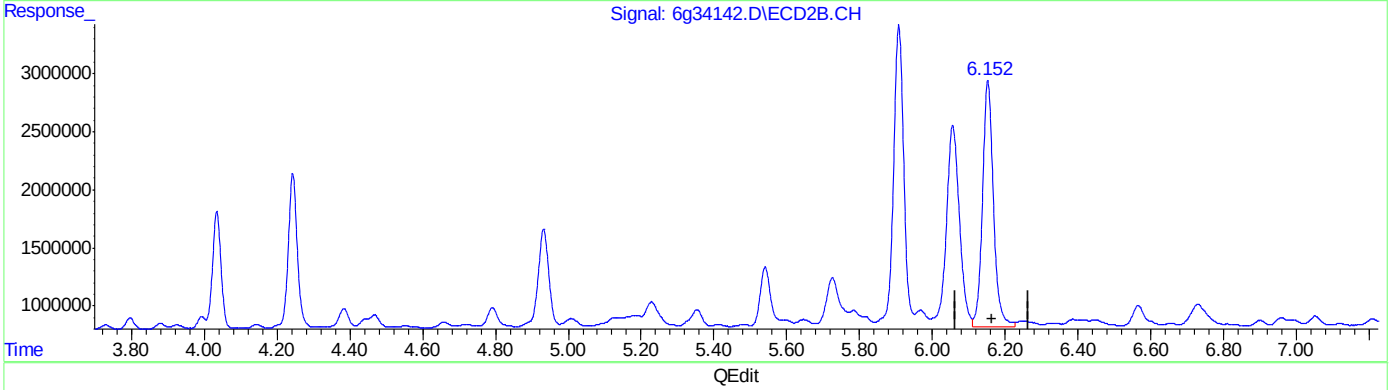
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34142.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 7:06 pm
Operator : dharas
Sample : icv987-500
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 11:36:29 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon Apr 18 11:27:24 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





QEdit

(35) Chlordane {D}
4.793min 507.996PPB
response 291002130

(35) Chlordane {D} #2
6.152min 250.802PPB
response 44256937

(+) = Expected Retention Time

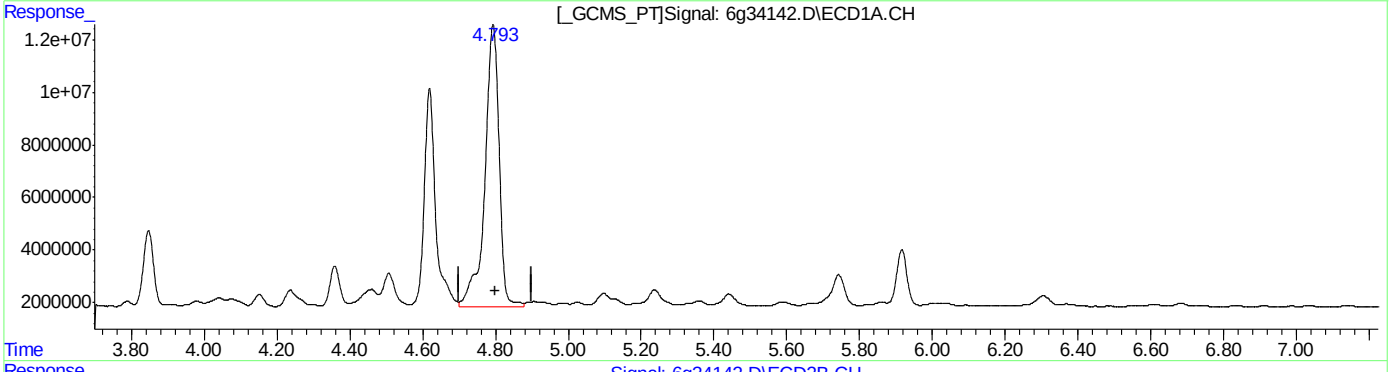
SGS ACCUTEST JC20098

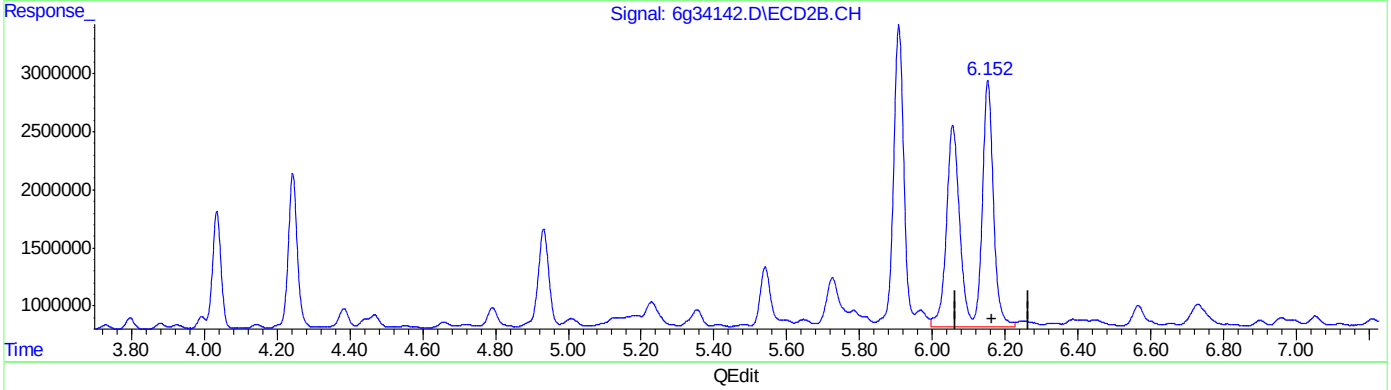
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34142.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 7:06 pm
Operator : dharas
Sample : icv987-500
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 11:36:29 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon Apr 18 11:27:24 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





QEdit

(35) Chlordane {D}
4.793min 507.996PPB
response 291002130

(35) Chlordane {D} #2
6.152min 496.014PPB m
response 87527557

(+) = Expected Retention Time
6PST987.M Mon Apr 18 11:37:14 2016

SGS ACCUTEST JC20098

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 04/18/16 14:12

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34143.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 7:22 pm
Operator : dharas
Sample : icv987-500
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 11:34:36 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon Apr 18 11:27:24 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.314	1.584	144.8E6	45354922	50.000	50.000
25) I	1-bromo-2...	1.314	1.584	144.8E6	45354922	50.000	50.000
31) I	1-bromo-2...	1.314	1.584	144.8E6	45354922	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	1.987	2.478	116.0E6	37335435	43.680	45.563
	Spiked Amount 40.000	Range	30 - 150	Recovery	=	109.20%	113.91%
24) SAB	Decachlor...	9.925	11.763	107.6E6	30829435	46.615	50.039
	Spiked Amount 40.000			Recovery	=	116.54%	125.10%
	Target Compounds						
26) L8	Toxaphene{A}	5.337	6.687	21203662	5887343	540.559	446.752m
27) L8	Toxaphene{B}	5.732	7.618	40544589	11201908	488.653	483.227
28) L8	Toxaphene{C}	5.999	7.796	61413804	16814365	490.509	471.871
29) L8	Toxaphene{D}	6.560	8.279	34302428	11333968	483.679	481.671
30) L8	Toxaphene{E}	7.256	9.263	36744091	10750226	462.871	536.680

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

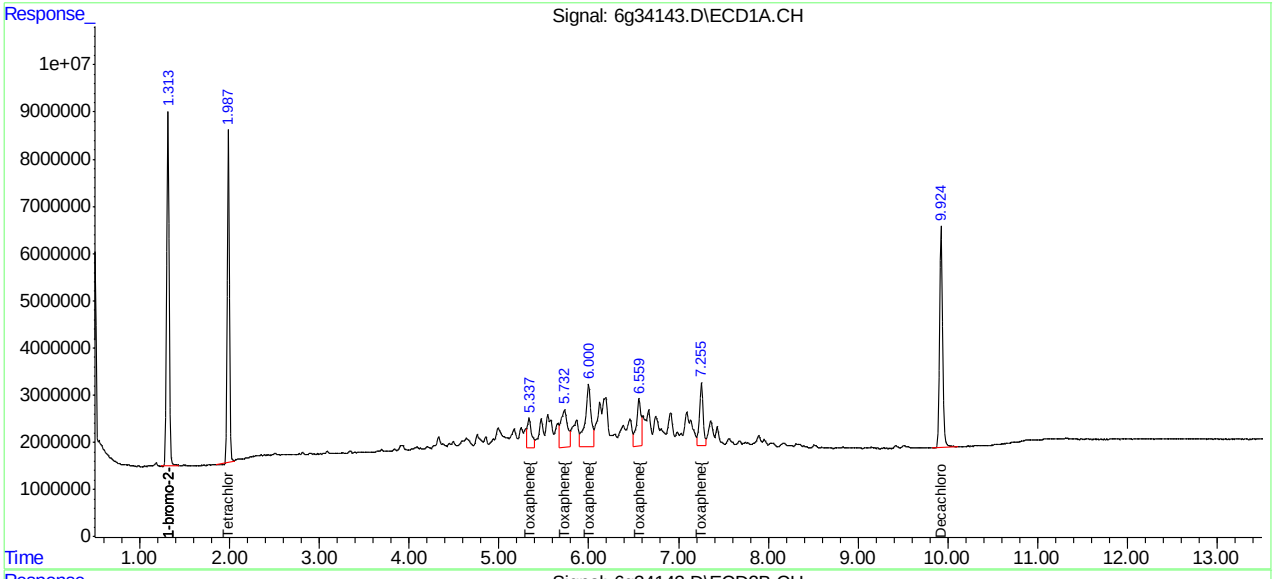
11.6.29 11

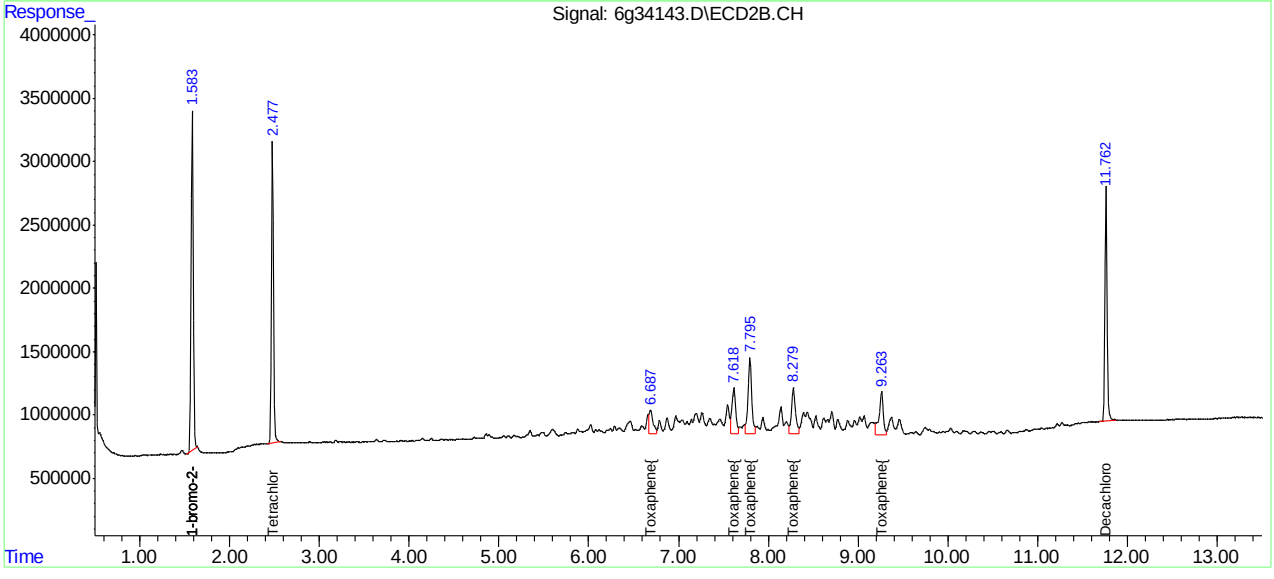
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34143.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 7:22 pm
Operator : dharas
Sample : icv987-500
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 11:34:36 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon Apr 18 11:27:24 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





Manual Integration Approval Summary

Sample Number:	G6G987-ICV987	**Method:**	SW846 8081B
Lab FileID:	6G34143.D	**Analyst approved:**	04/18/16 12:23 Dhara Saparia
Injection Time:	04/14/16 19:22	**Supervisor approved:**	04/18/16 14:12 Gwendolyn Burns

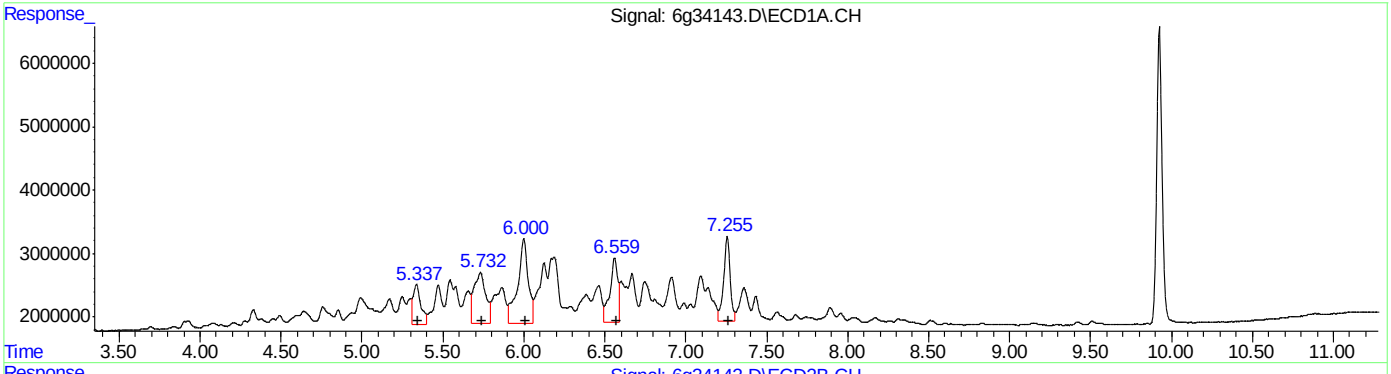
Parameter	CAS	Sig#	R.T. (min.)	Reason
Toxaphene-A		2	6.69	Poor instrument integration

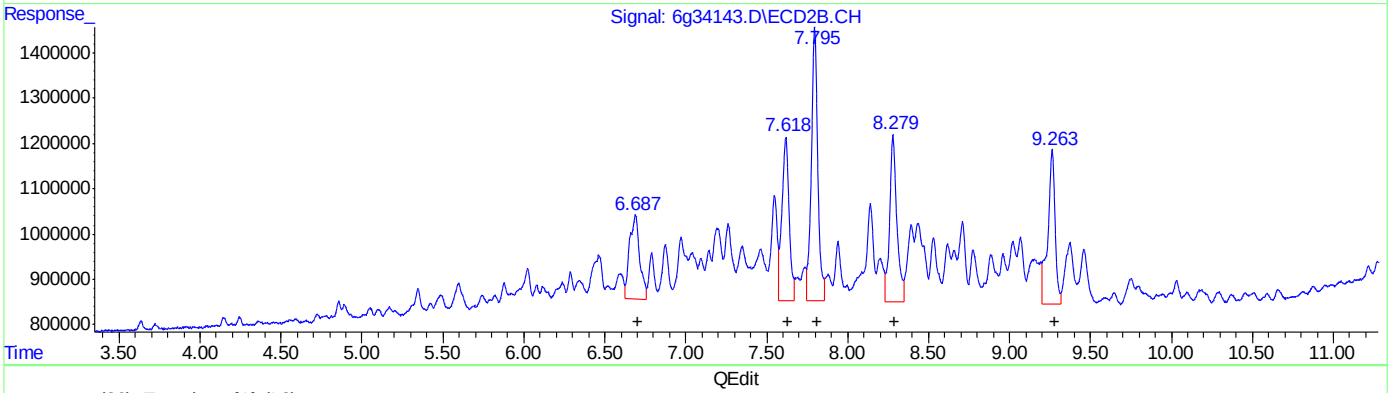
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34143.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 7:22 pm
Operator : dharas
Sample : icv987-500
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 11:33:05 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon Apr 18 11:27:24 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





QEdit

(26) Toxaphene{A} (L8)

R.T.	Response	Conc
5.34	21203662	540.56
5.73	40544589	488.65
6.00	61413804	490.51
6.56	34302428	483.68
7.26	36744091	462.87

(26) Toxaphene{A} #2 (L8)

R.T.	Response	Conc
6.69	8113345	615.67
7.62	11201908	483.23
7.80	16814365	471.87
8.28	11333968	481.67
9.26	10750226	536.68

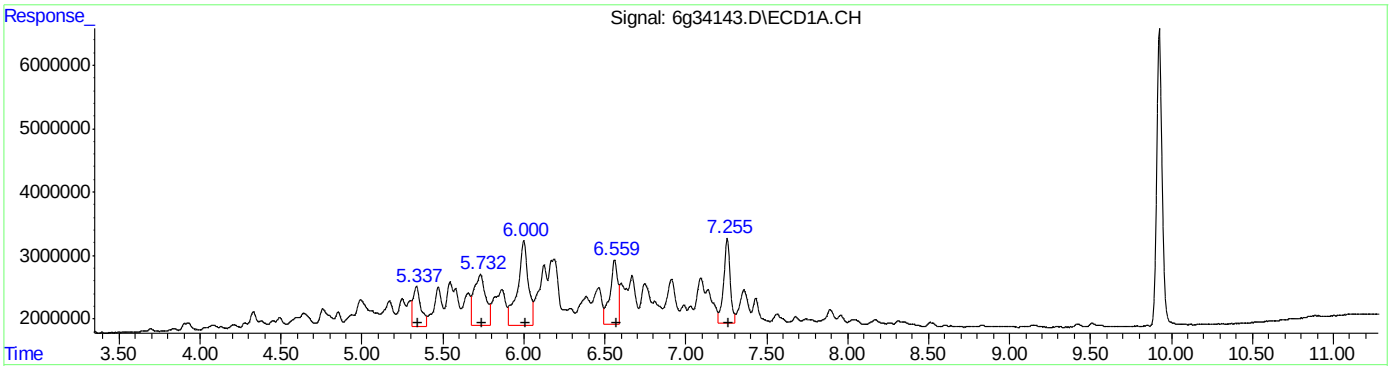
(+) = Expected Retention Time

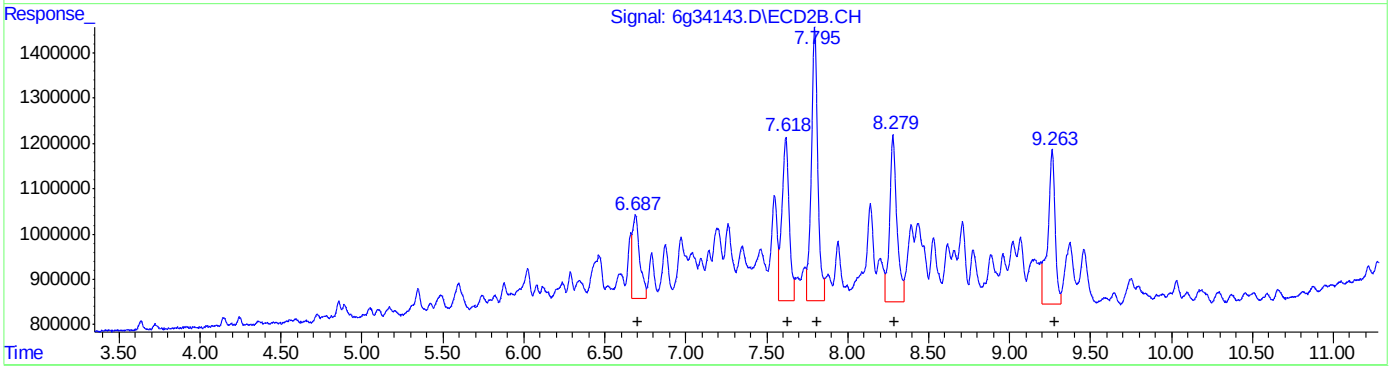
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\987\
Data File : 6g34143.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14 Apr 2016 7:22 pm
Operator : dharas
Sample : icv987-500
Misc : op92908,g6g987,6.8,,,10,1
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 11:33:05 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon Apr 18 11:27:24 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





QEdit

(26) Toxaphene{A} #2 (L8)

R.T.	Response	Conc
5.34	21203662	540.56
5.73	40544589	488.65
6.00	61413804	490.51
6.56	34302428	483.68
7.26	36744091	462.87

(26) Toxaphene{A} #2 (L8)

R.T.	Response	Conc
6.69	5887343	446.75
7.62	11201908	483.23
7.80	16814365	471.87
8.28	11333968	481.67
9.26	10750226	536.68

(+) = Expected Retention Time

SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1010\
Data File : 6g35034.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 May 2016 9:21 am
Operator : dharas
Sample : cc987-25
Misc : op93838,g6g1010,15.8,,,10,1
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 13 09:38:26 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Wed May 11 16:27:57 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.294	1.565	134.1E6	49527034	50.000	50.000
25) I	1-bromo-2...	1.294	1.565	134.1E6	49527034	50.000	50.000
31) I	1-bromo-2...	1.294	1.565	134.1E6	49527034	50.000	50.000
	System Monitoring Compounds						
2)	SAB Tetrachlo...	1.969	2.458	61184755	22257538	24.895	24.874
	Spiked Amount 40.000	Range	30 - 150	Recovery	=	62.24%	62.19%
24)	SAB Decachlor...	9.890	11.737	50129201	18050621	23.457	26.830
	Spiked Amount 40.000			Recovery	=	58.64%	67.07%
	Target Compounds						
3) A	alpha-BHC	2.481	3.158	81393040	29683260	25.689	25.462
4) MA	gamma-BHC	2.796	3.609	75176247	27261367	25.486	24.976
5) MA	Heptachlor	3.322	4.213	68862236	26192567	23.257	23.744
6) B	beta-BHC	2.877	3.702	37284611	12433180	25.750	23.379
7) B	delta-BHC	3.071	4.117	63887029	25148809	23.240	24.724
8) MB	Aldrin	3.672	4.688	65135499	24681536	23.818	24.062
9) B	Heptachlo...	4.417	5.566	59318900	22525111	23.168	23.561
10) B	gamma-Chl...	4.593	5.871	55999379	22413892	21.734	23.982
11) B	alpha-Chl...	4.773	6.114	57721943	22370356	22.572	24.093
12) A	Endosulfan I	4.955	6.213	59815859	21313157	23.694	23.627
13) B	4,4'-DDE	4.904	6.413	49055701	19227723	23.150	24.014
14) MA	Dieldrin	5.298	6.682	59223280	22032929	23.726	23.912
15) MA	Endrin	5.638	7.223	54685139	20213764	24.150	24.145
16) A	4,4'-DDD	5.791	7.445	42030309	16978016	23.462	24.571
17) B	Endosulfa...	5.979	7.606	53210088	19278920	23.817	23.545
18) MA	4,4'-DDT	6.240	8.023	42401454	14683496	21.760	23.412
19) B	Endrin Al...	6.648	8.233	43489288	15864845	23.882	23.898
20) B	Endosulfa...	7.383	8.748	48864639	17775640	24.905	24.670
21) A	Methoxychlor	7.106	9.399	25854393	8169701	22.137	23.641
22)	Mirex	7.234	9.707	48300806	16938809	24.145	23.875
23) B	Endrin Ke...	7.856	9.794	57726595	20677891	24.741	24.552

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

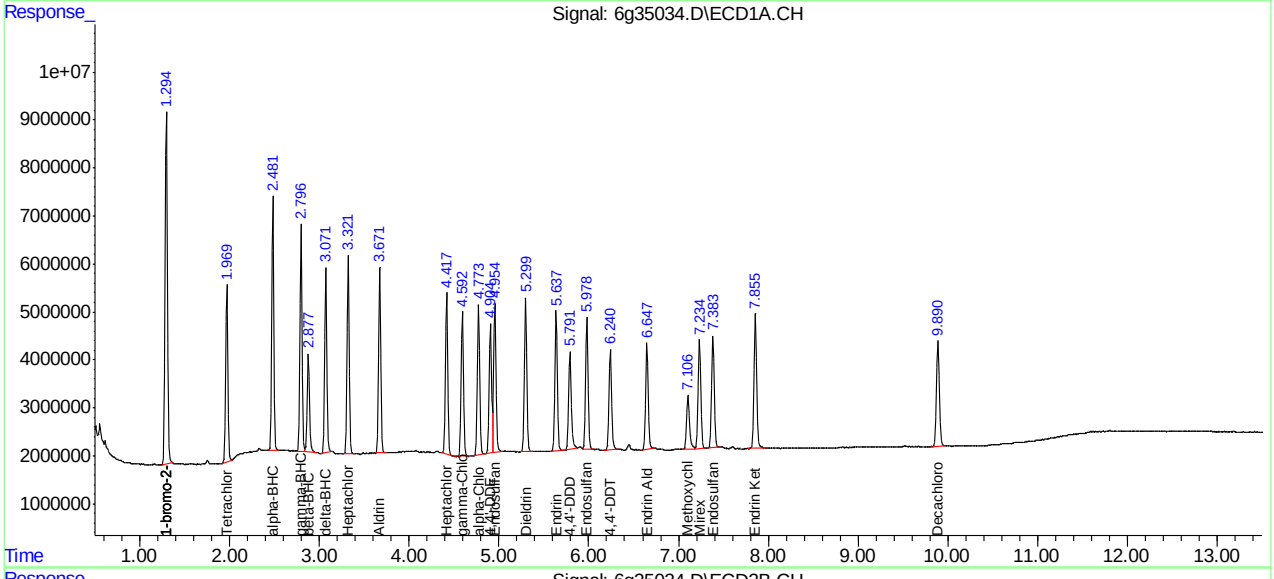
SGS ACCUTEST JC20098

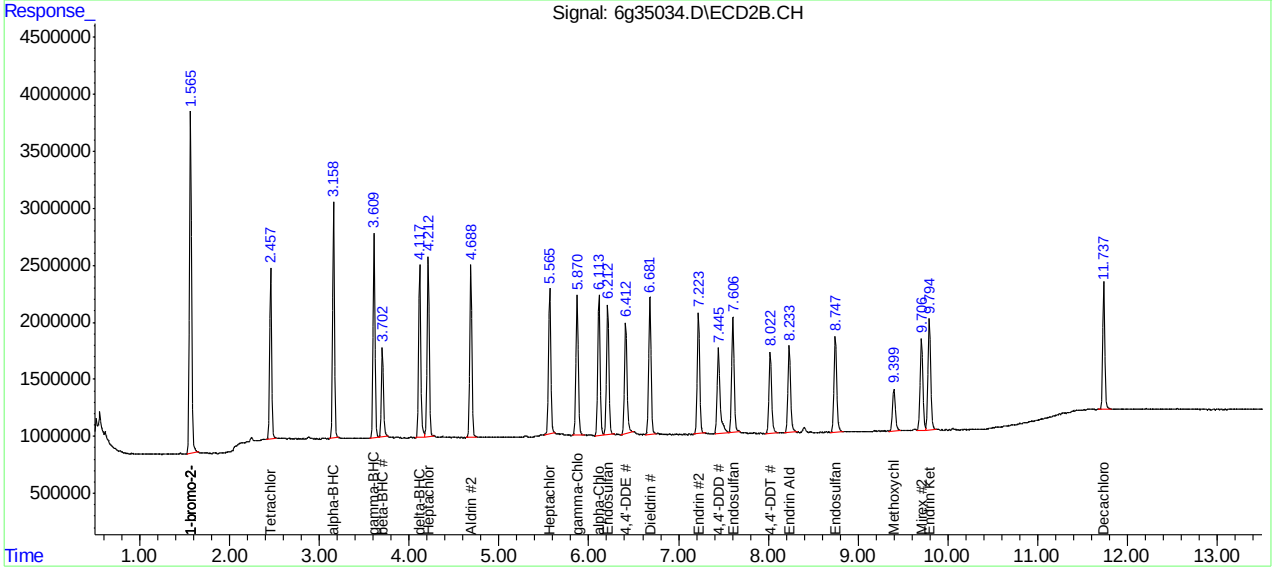
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1010\
Data File : 6g35034.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 May 2016 9:21 am
Operator : dharas
Sample : cc987-25
Misc : op93838,g6g1010,15.8,,,10,1
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 13 09:38:26 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Wed May 11 16:27:57 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1010\
Data File : 6g35055.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 May 2016 5:21 pm
Operator : thomasl
Sample : cc987-50
Misc : op93857,g6g1010,9.2,,,10,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 16 10:07:39 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 16 10:05:37 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.292	1.564	148.0E6	51864562	50.000	50.000
25) I	1-bromo-2...	1.292	1.564	148.0E6	51864562	50.000	50.000
31) I	1-bromo-2...	1.292	1.564	148.0E6	51864562	50.000	50.000
	System Monitoring Compounds						
2)	SAB Tetrachlo...	1.968	2.457	132.4E6	43926649	48.795	46.878
	Spiked Amount	40.000	Range	30 - 150	Recovery	= 121.99%	117.20%
24)	SAB Decachlor...	9.890	11.734	108.5E6	36168238	46.010	51.336
	Spiked Amount	40.000			Recovery	= 115.03%	128.34%
	Target Compounds						
3) A	alpha-BHC	2.480	3.158	187.6E6	61746472	53.643	50.579
4) MA	gamma-BHC	2.794	3.608	170.6E6	56432267	52.380	49.371
5) MA	Heptachlor	3.319	4.212	162.2E6	54922717	49.633	47.545
6) B	beta-BHC	2.877	3.702	75991960	25352832	47.544	45.525
7) B	delta-BHC	3.071	4.117	159.0E6	51245899	52.381	48.110
8) MB	Aldrin	3.671	4.686	153.3E6	50868364	50.785	47.356
9) B	Heptachlo...	4.416	5.565	143.2E6	46800005	50.656	46.745
10) B	gamma-Chl...	4.590	5.869	133.5E6	45390988	46.941	46.378
11) B	alpha-Chl...	4.771	6.112	132.2E6	44892493	46.833	46.170
12) A	Endosulfan I	4.953	6.210	140.1E6	43545463	50.280	46.098
13) B	4,4'-DDE	4.905	6.412	109.1E6	36494594	46.638	43.525
14) MA	Dieldrin	5.296	6.679	137.6E6	45230571	49.941	46.876
15) MA	Endrin	5.635	7.222	127.7E6	42245701	51.077	48.188
16) A	4,4'-DDD	5.794	7.446	99147447	35267709	50.136	48.739
17) B	Endosulfa...	5.978	7.606	122.9E6	41819915	49.827	48.773
18) MA	4,4'-DDT	6.241	8.023	102.2E6	30980425	47.490	47.170
19) B	Endrin Al...	6.647	8.233	99496593	32741984	49.496	47.097
20) B	Endosulfa...	7.383	8.746	112.9E6	35587424	52.130	47.164
21) A	Methoxychlor	7.109	9.401	58755669	17026113	45.574	47.048
22)	Mirex	7.233	9.705	105.7E6	34419429	47.843	46.328
23) B	Endrin Ke...	7.857	9.793	123.4E6	40745602	47.910	46.200

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

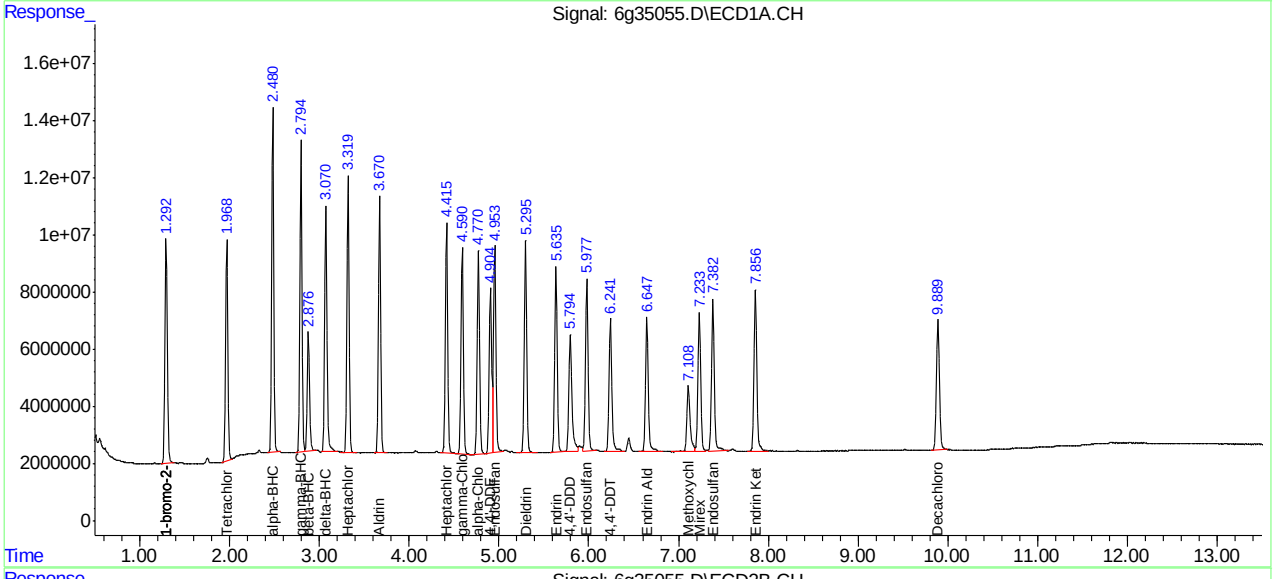
SGS ACCUTEST JC20098

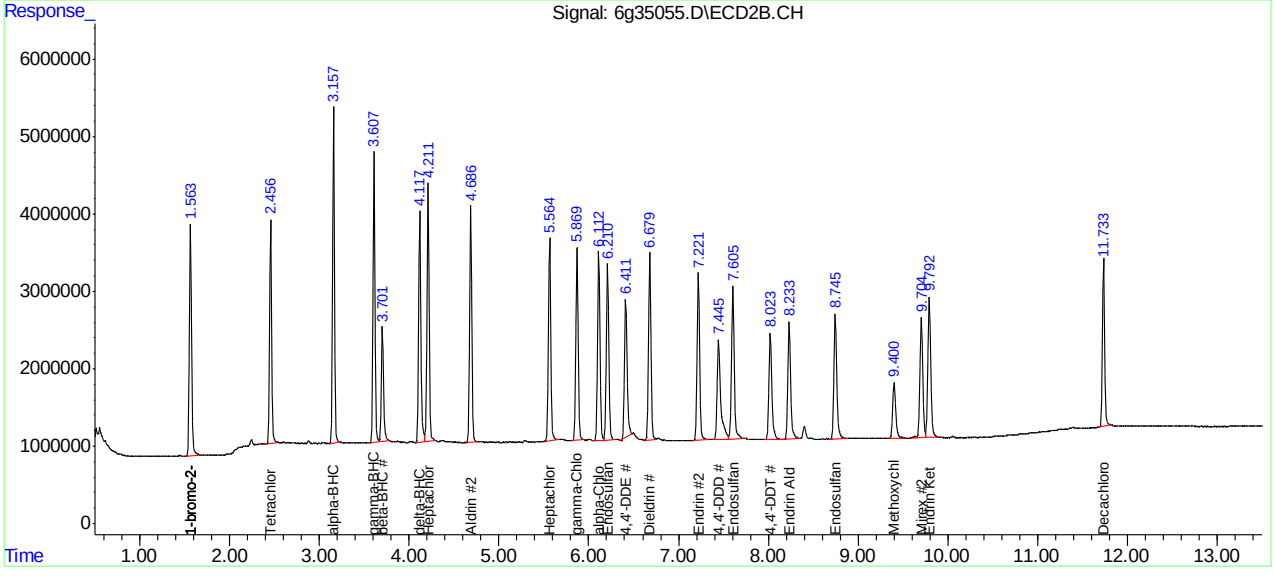
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1010\
Data File : 6g35055.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 May 2016 5:21 pm
Operator : thomasl
Sample : cc987-50
Misc : op93857,g6g1010,9.2,,,10,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 16 10:07:39 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 16 10:05:37 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





SGS ACCUTEST JC20098

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1011\
Data File : 6g35087.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 May 2016 9:35 am
Operator : rebeccak
Sample : cc987-25
Misc : op93772,g6g1011,1000,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 16 10:06:28 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 16 10:05:37 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.296	1.567	119.0E6	50400413	50.000	50.000
25) I	1-bromo-2...	1.296	1.567	119.0E6	50400413	50.000	50.000
31) I	1-bromo-2...	1.296	1.567	119.0E6	50400413	50.000	50.000
	System Monitoring Compounds						
2)	SAB Tetrachlo...	1.970	2.458	53423257	22119647	24.487	24.292
	Spiked Amount 40.000	Range	30 - 150	Recovery	=	61.22%	60.73%
24)	SAB Decachlor...	9.886	11.732	45446599	17783800	23.956	25.975
	Spiked Amount 40.000			Recovery	=	59.89%	64.94%
	Target Compounds						
3) A	alpha-BHC	2.481	3.158	69557160	29015715	24.731	24.458
4) MA	gamma-BHC	2.795	3.608	64137213	26580139	24.494	23.930
5) MA	Heptachlor	3.320	4.211	59161930	24911012	22.508	22.191
6) B	beta-BHC	2.876	3.700	32132382	12390628	24.999	22.896
7) B	delta-BHC	3.070	4.116	53417342	24241375	21.890	23.419
8) MB	Aldrin	3.671	4.686	56167751	24122776	23.137	23.110
9) B	Heptachlo...	4.416	5.562	51115654	22274426	22.490	22.895
10) B	gamma-Chl...	4.591	5.868	49220962	21963488	21.520	23.093
11) B	alpha-Chl...	4.771	6.111	50911939	21498448	22.428	22.752
12) A	Endosulfan I	4.953	6.209	52019621	20895159	23.213	22.762
13) B	4,4'-DDE	4.903	6.411	43533144	19386921	23.143	23.794
14) MA	Dieldrin	5.295	6.678	51493935	21949094	23.239	23.409
15) MA	Endrin	5.636	7.221	48288842	20225552	24.023	23.741
16) A	4,4'-DDD	5.789	7.442	37041824	17070156	23.293	24.276
17) B	Endosulfa...	5.976	7.603	47288160	20194532	23.844	24.236
18) MA	4,4'-DDT	6.239	8.019	36912367	15109336	21.339	23.673
19) B	Endrin Al...	6.645	8.231	40238202	16275948	24.892	24.092
20) B	Endosulfa...	7.381	8.745	42867076	17837435	24.612	24.327
21) A	Methoxychlor	7.103	9.397	23113197	8355546	22.294	23.760
22)	Mirex	7.233	9.704	42220941	16499131	23.776	22.853
23) B	Endrin Ke...	7.854	9.791	51290171	20890456	24.764	24.375

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

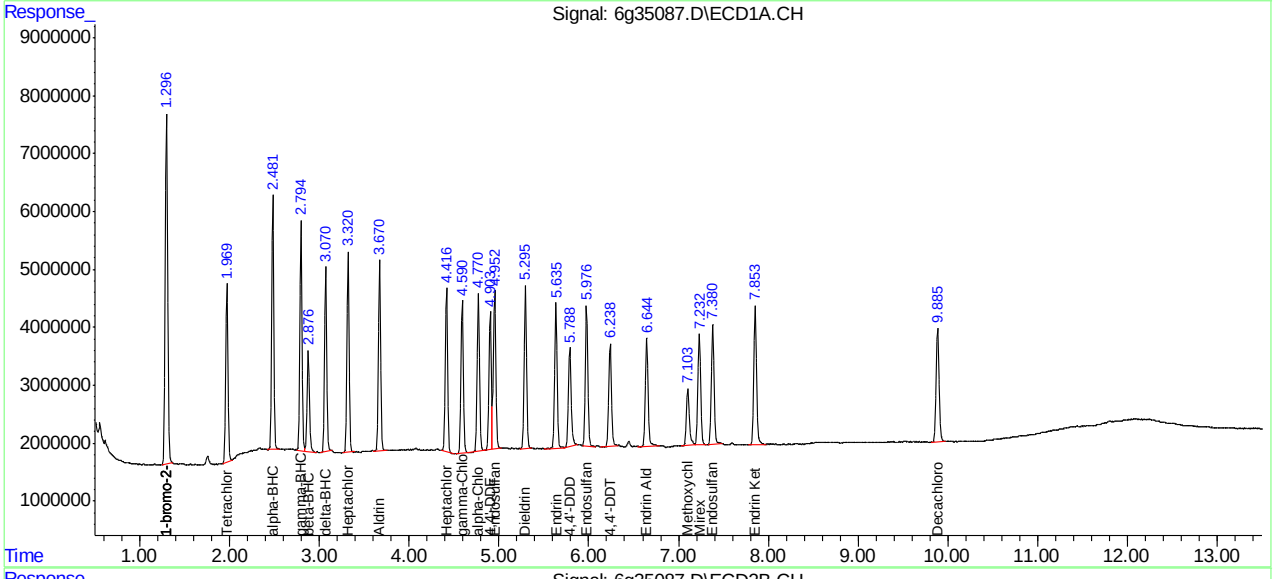
SGS ACCUTEST JC20098

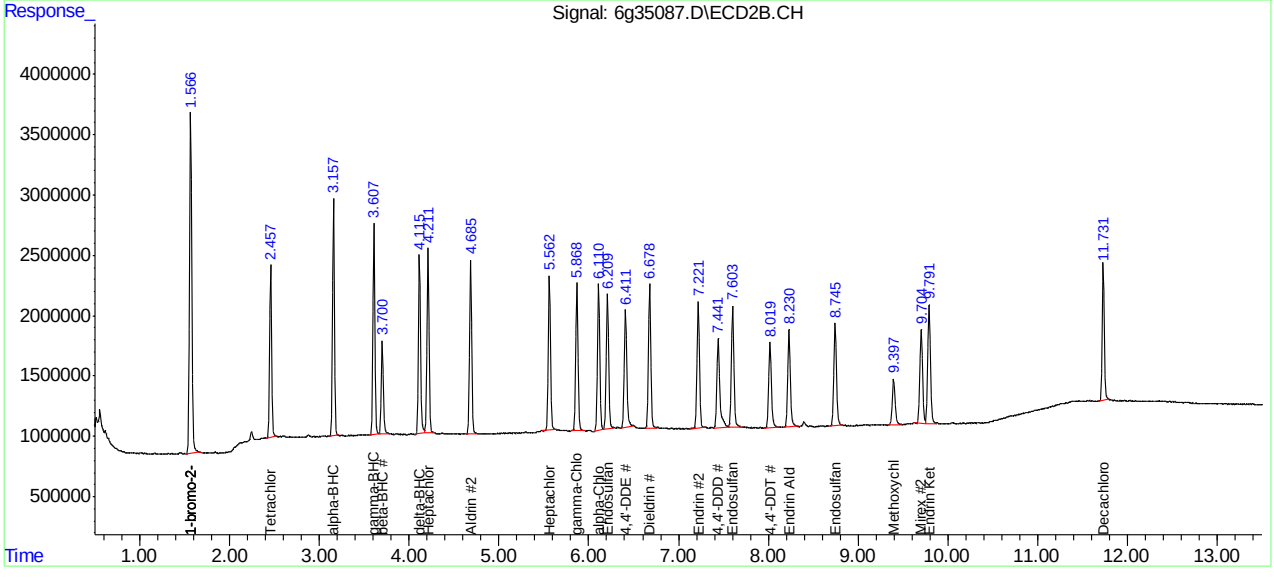
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1011\
Data File : 6g35087.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 May 2016 9:35 am
Operator : rebeccak
Sample : cc987-25
Misc : op93772,g6g1011,1000,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 16 10:06:28 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 16 10:05:37 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1011\
Data File : 6g35106.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 May 2016 3:56 pm
Operator : rebeccak
Sample : cc987-50
Misc : op93876,g6g1011,100,,,10,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 16 16:10:24 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 16 10:05:37 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.293	1.563	121.7E6	49545576	50.000	50.000
25) I	1-bromo-2...	1.293	1.563	121.7E6	49545576	50.000	50.000
31) I	1-bromo-2...	1.293	1.563	121.7E6	49545576	50.000	50.000
	System Monitoring Compounds						
2)	SAB Tetrachlo...	1.968	2.456	108.5E6	42461487	48.656	47.436
	Spiked Amount 40.000 Range 30 - 150 Recovery = 121.64% 118.59%						
24)	SAB Decachlor...	9.885	11.733	97107647	35719727	50.068	53.073
	Spiked Amount 40.000 Recovery = 125.17% 132.68%						
	Target Compounds						
3) A	alpha-BHC	2.479	3.157	152.6E6	58559586	53.053	50.213
4) MA	gamma-BHC	2.793	3.607	138.0E6	53294592	51.551	48.808
5) MA	Heptachlor	3.318	4.211	127.5E6	49356924	47.463	44.726
6) B	beta-BHC	2.875	3.700	62386493	24450992	47.477	45.960
7) B	delta-BHC	3.068	4.114	119.0E6	48283512	47.705	47.450
8) MB	Aldrin	3.669	4.685	121.7E6	47244573	49.057	46.041
9) B	Heptachlo...	4.415	5.562	106.8E6	43166379	45.975	45.134
10) B	gamma-Chl...	4.589	5.868	104.3E6	42453529	44.620	45.407
11) B	alpha-Chl...	4.770	6.110	106.4E6	41443216	45.836	44.617
12) A	Endosulfan I	4.951	6.209	107.3E6	40429375	46.846	44.802
13) B	4,4'-DDE	4.901	6.409	98864977	38246200	51.409	47.749
14) MA	Dieldrin	5.294	6.678	109.7E6	42704731	48.415	46.330
15) MA	Endrin	5.633	7.220	101.5E6	39597611	49.379	47.282
16) A	4,4'-DDD	5.786	7.440	80793237	34143274	49.694	49.394
17) B	Endosulfa...	5.975	7.603	97767216	39451780	48.219	48.165
18) MA	4,4'-DDT	6.236	8.019	78674594	29607296	44.488	47.189
19) B	Endrin Al...	6.644	8.230	82975279	32194908	50.208	48.478
20) B	Endosulfa...	7.379	8.744	87086040	34052390	48.908	47.242
21) A	Methoxychlor	7.102	9.396	47618548	16598704	44.926	48.014
22)	Mirex	7.231	9.704	83921305	31833881	46.225	44.853
23) B	Endrin Ke...	7.853	9.790	108.0E6	41455311	51.002	49.204

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

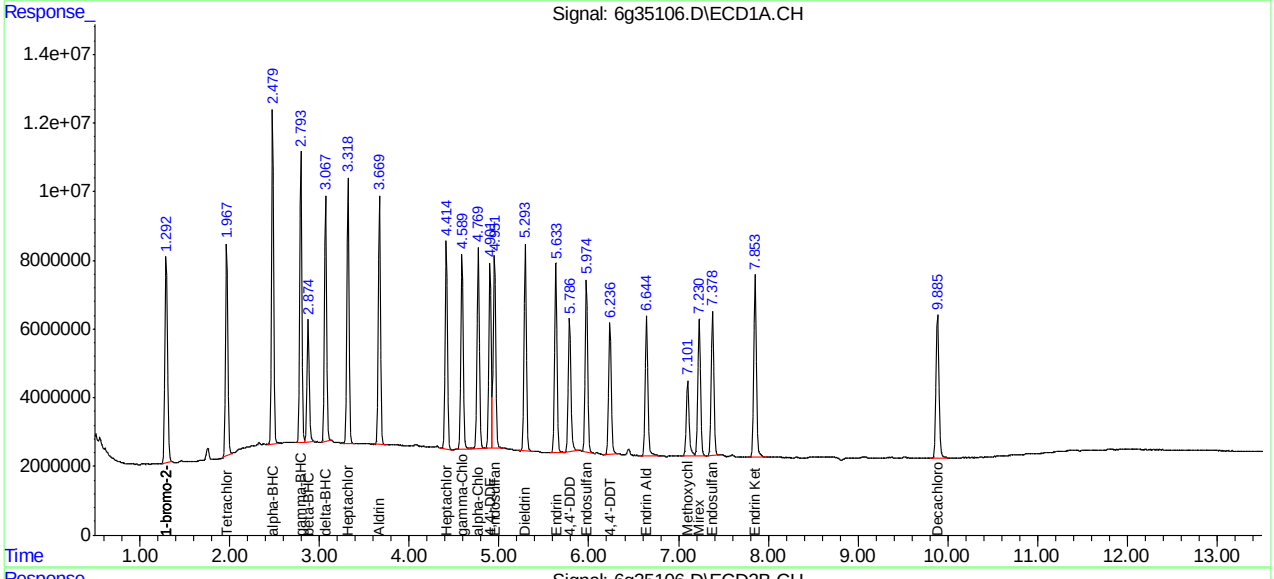
SGS ACCUTEST JC20098

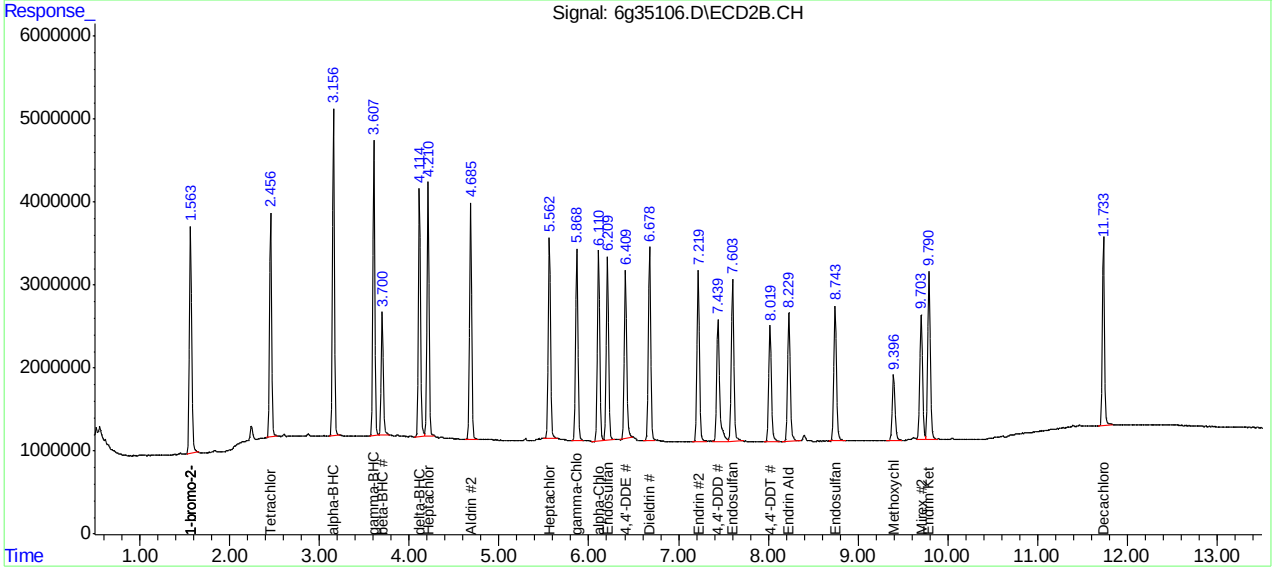
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1011\
Data File : 6g35106.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 May 2016 3:56 pm
Operator : rebeccak
Sample : cc987-50
Misc : op93876,g6g1011,100,,,10,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 16 16:10:24 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 16 10:05:37 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 05/17/16 12:09

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1012\
Data File : 6g35139.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 May 2016 8:41 am
Operator : rebeccak
Sample : cc987-25
Misc : op93898,g6g1012,495,,,10,1
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 17 09:54:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 16 10:05:37 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.295	1.565	124.6E6	49865169	50.000	50.000
25) I	1-bromo-2...	1.295	1.565	124.6E6	49865169	50.000	50.000
31) I	1-bromo-2...	1.295	1.565	124.6E6	49865169	50.000	50.000
	System Monitoring Compounds						
2)	SAB Tetrachlo...	1.969	2.456	54582617	21673609	23.894	24.057
	Spiked Amount 40.000	Range	30 - 150	Recovery	=	59.73%	60.14%
24)	SAB Decachlor...	9.882	11.732	47267070	17984200	23.796	26.550
	Spiked Amount 40.000			Recovery	=	59.49%	66.38%
	Target Compounds						
3) A	alpha-BHC	2.479	3.157	72476245	28833681	24.611	24.566
4) MA	gamma-BHC	2.794	3.606	66844446	26461098	24.381	24.078
5) MA	Heptachlor	3.318	4.211	62244104	25163696	22.616	22.657
6) B	beta-BHC	2.875	3.700	32147582	12397253	23.887	23.154
7) B	delta-BHC	3.068	4.114	58156391	24684861	22.760	24.103
8) MB	Aldrin	3.669	4.684	58390301	23908218	22.972	23.150
9) B	Heptachlo...	4.414	5.562	53404080	22206960	22.441	23.070m
10) B	gamma-Chl...	4.588	5.867	51562225	21636555	21.530	22.993
11) B	alpha-Chl...	4.768	6.111	52953024	21358392	22.279	22.847
12) A	Endosulfan I	4.950	6.208	53627231	20852393	22.854	22.960
13) B	4,4'-DDE	4.900	6.408	45475865	19102299	23.089	23.696
14) MA	Dieldrin	5.293	6.676	53647914	21731752	23.123	23.426
15) MA	Endrin	5.634	7.219	50064314	20296700	23.787	24.080
16) A	4,4'-DDD	5.787	7.440	38514985	17215425	23.131	24.745
17) B	Endosulfa...	5.975	7.601	48403240	20146348	23.309	24.438
18) MA	4,4'-DDT	6.236	8.018	38981374	15353936	21.523	24.315
19) B	Endrin Al...	6.642	8.229	40289408	16221238	23.803	24.269
20) B	Endosulfa...	7.378	8.744	44748655	17847909	24.538	24.602
21) A	Methoxychlor	7.101	9.394	23820397	8531547	21.943	24.520
22)	Mirex	7.230	9.702	43411133	16310879	23.347	22.834
23) B	Endrin Ke...	7.850	9.789	53883352	21036938	24.846	24.809

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

11.6.34 11

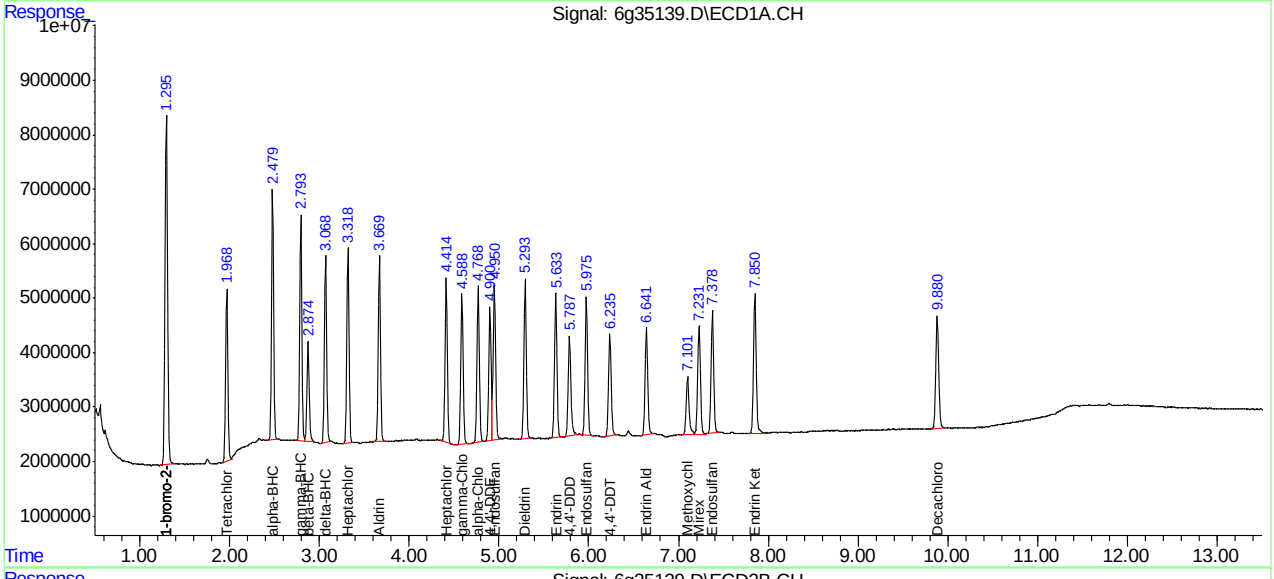
SGS ACCUTEST JC20098

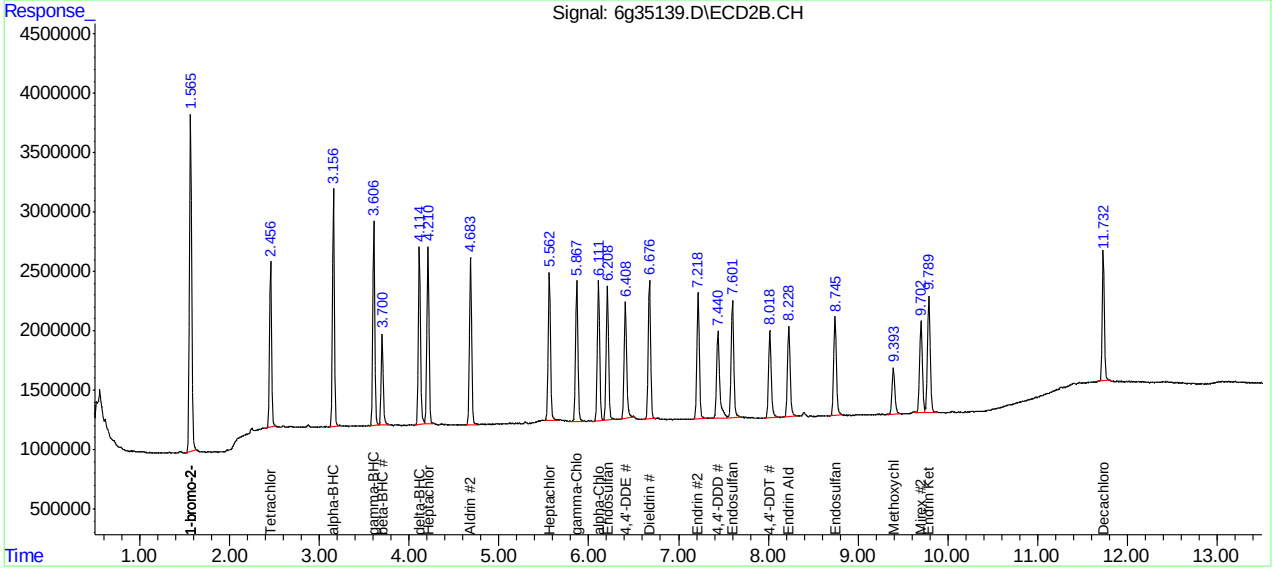
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1012\
Data File : 6g35139.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 May 2016 8:41 am
Operator : rebeccak
Sample : cc987-25
Misc : op93898,g6g1012,495,,,10,1
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 17 09:54:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 16 10:05:37 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





Manual Integration Approval Summary

Sample Number:	G6G1012-CC987	**Method:**	SW846 8081B
Lab FileID:	6G35139.D	**Analyst approved:**	05/17/16 11:27 Dhara Saparia
Injection Time:	05/17/16 08:41	**Supervisor approved:**	05/17/16 12:09 Gwendolyn Burns

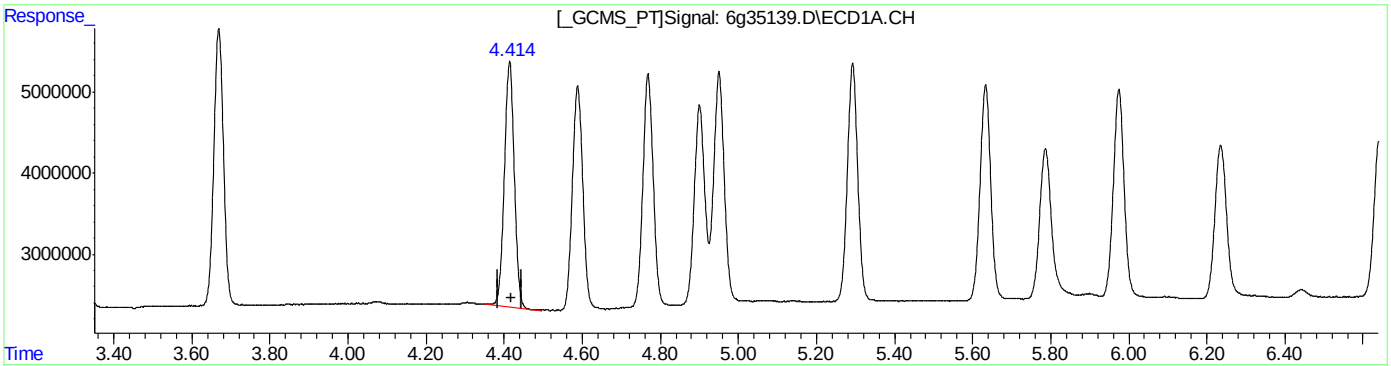
Parameter	CAS	Sig#	R.T. (min.)	Reason
Heptachlor epoxide	1024-57-3	2	5.56	Poor instrument integration

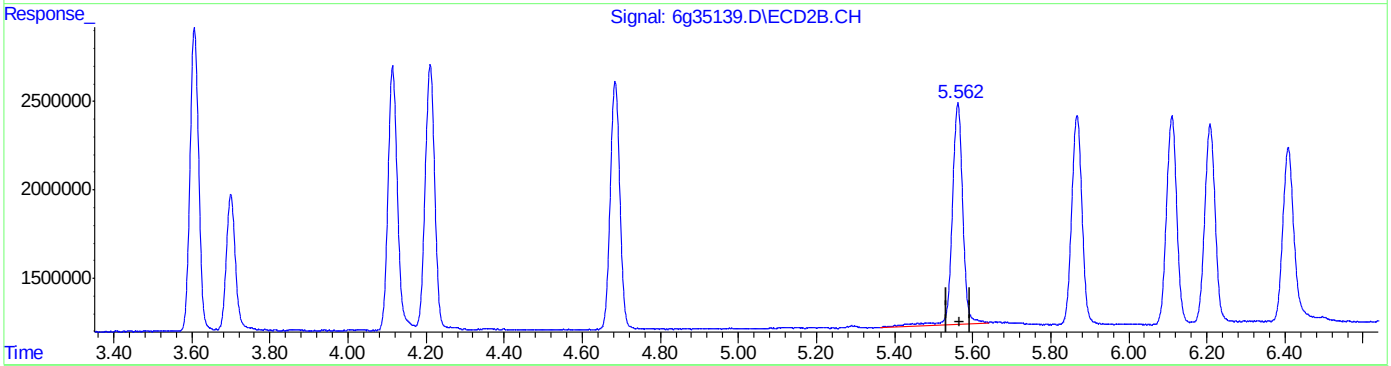
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1012\
Data File : 6g35139.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 May 2016 8:41 am
Operator : rebeccak
Sample : cc987-25
Misc : op93898,g6g1012,495,,,10,1
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 17 09:53:33 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 16 10:05:37 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





QEdit

(9) Heptachlor Epoxide (B)
4.414min 22.441PPB
response 53404080

(9) Heptachlor Epoxide #2 (B)
5.562min 24.126PPB
response 23222876

(+) = Expected Retention Time
6PST987.M Tue May 17 09:54:16 2016

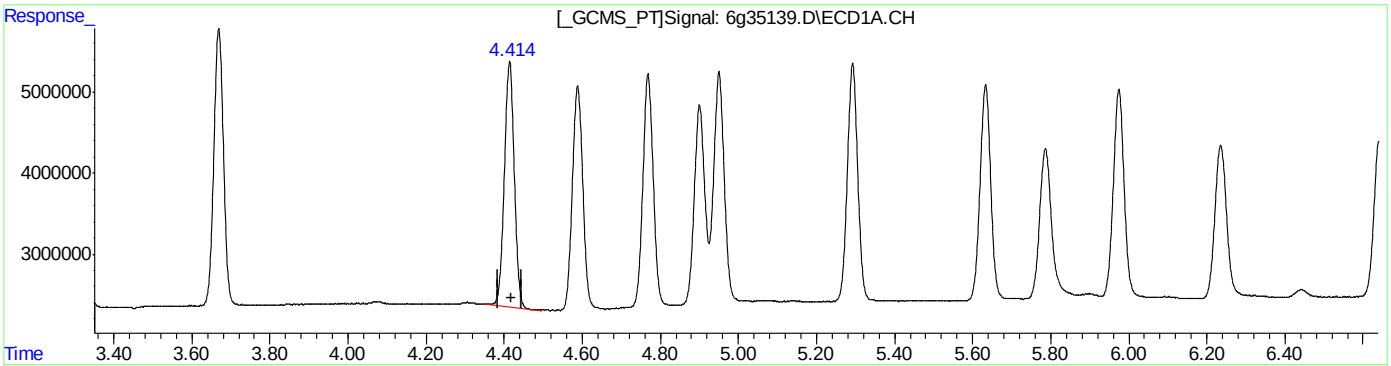
SGS ACCUTEST JC20098

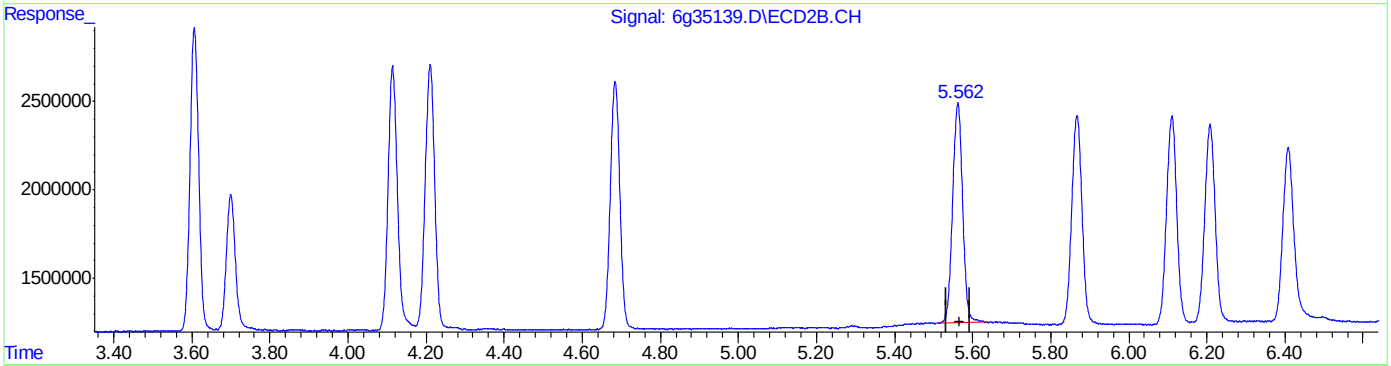
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1012\
Data File : 6g35139.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 May 2016 8:41 am
Operator : rebeccak
Sample : cc987-25
Misc : op93898,g6g1012,495,,,10,1
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 17 09:53:33 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 16 10:05:37 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





QEdit

(9) Heptachlor Epoxide (B)
4.414min 22.441PPB
response 53404080

(9) Heptachlor Epoxide #2 (B)
5.562min 23.070PPB m
response 22206960

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1012\
Data File : 6g35158.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 May 2016 3:28 pm
Operator : dharas
Sample : cc987-50
Misc : op93928,g6g1012,15.6,,,10,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 17 15:49:37 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 16 10:05:37 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.296	1.567	128.4E6	50521122	50.000	50.000
25) I	1-bromo-2...	1.296	1.567	128.4E6	50521122	50.000	50.000
31) I	1-bromo-2...	1.296	1.567	128.4E6	50521122	50.000	50.000
	System Monitoring Compounds						
2)	SAB Tetrachlo...	1.969	2.457	116.7E6	43317759	49.575	47.458
	Spiked Amount 40.000 Range 30 - 150 Recovery = 123.94% 118.65%						
24)	SAB Decachlor...	9.882	11.730	97206015	35694735	47.481	52.011
	Spiked Amount 40.000 Recovery = 118.70% 130.03%						
	Target Compounds						
3) A	alpha-BHC	2.480	3.157	164.3E6	60066352	54.144	50.511
4) MA	gamma-BHC	2.793	3.607	149.4E6	54649371	52.882	49.082
5) MA	Heptachlor	3.318	4.210	136.4E6	51188212	48.087	45.490
6) B	beta-BHC	2.875	3.700	68121889	24349944	49.112	44.887
7) B	delta-BHC	3.069	4.115	131.1E6	50927082	49.769	49.082
8) MB	Aldrin	3.669	4.684	129.7E6	48389027	49.507	46.246
9) B	Heptachlo...	4.413	5.562	119.2E6	44752401	48.607	45.889
10) B	gamma-Chl...	4.588	5.867	111.4E6	43845372	45.116	45.990
11) B	alpha-Chl...	4.769	6.110	113.3E6	43406343	46.251	45.828
12) A	Endosulfan I	4.950	6.208	118.3E6	41853183	48.898	45.484
13) B	4,4'-DDE	4.901	6.409	97783620	37532824	48.170	45.954
14) MA	Dieldrin	5.291	6.677	118.3E6	43451891	49.458	46.230
15) MA	Endrin	5.632	7.219	109.6E6	40952564	50.539	47.955
16) A	4,4'-DDD	5.787	7.440	82938137	34343702	48.328	48.724
17) B	Endosulfa...	5.974	7.602	105.5E6	40738808	49.300	48.776
18) MA	4,4'-DDT	6.236	8.018	89774838	31237692	48.093	48.826
19) B	Endrin Al...	6.643	8.229	88506349	32485536	50.736	47.971
20) B	Endosulfa...	7.378	8.743	97043904	35683847	51.631	48.549
21) A	Methoxychlor	7.100	9.395	51939876	17641529	46.424	50.045
22)	Mirex	7.228	9.701	90534265	33099535	47.243	45.736
23) B	Endrin Ke...	7.851	9.788	115.9E6	42501651	51.848	49.472

SemiQuant Compounds - Not Calibrated on this Instrument

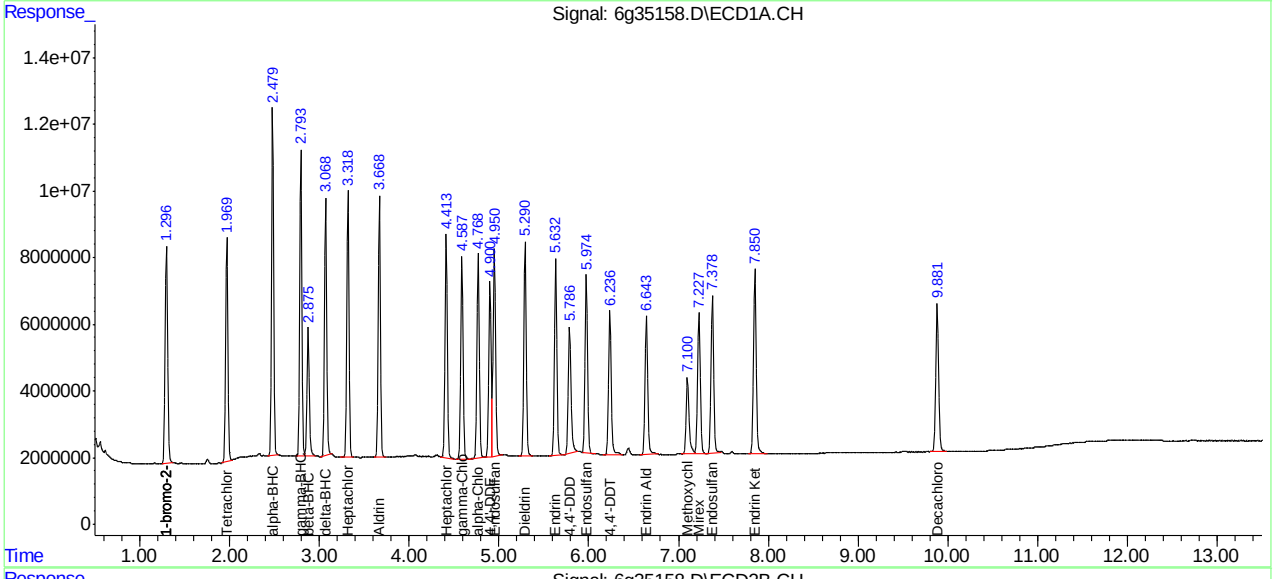
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

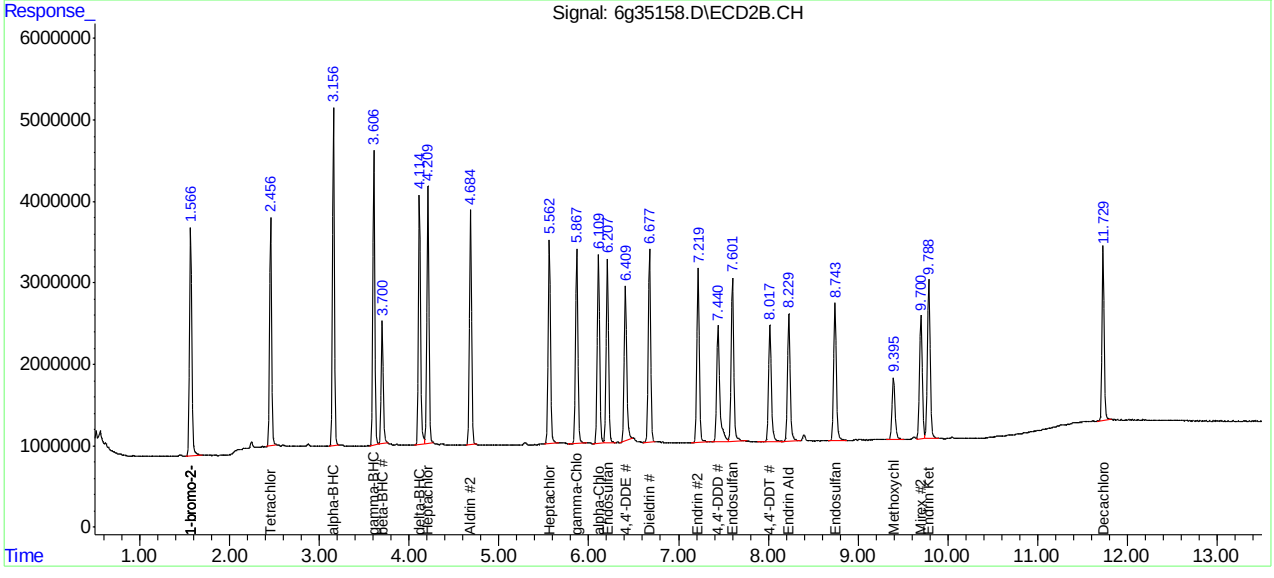
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1012\
Data File : 6g35158.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 May 2016 3:28 pm
Operator : dharas
Sample : cc987-50
Misc : op93928,g6g1012,15.6,,,10,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 17 15:49:37 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST987.M
Quant Title : PEST/PCB
QLast Update : Mon May 16 10:05:37 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





SGS ACCUTEST JC20098

SGS ACCUTEST

SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: anc-1778

Print Analyst Name: Dhara Sapara

Analyst Signature:

Date: 05/02/16

Columns: 2ncLPT | 2nCLPT

Method 8081, 608

Initial Cal. Method MPST 1778

Injection Volume: 1.0ul

Date Archived:

Standard Data

Lot #	Description	Conc.
SV 1615724-1778A	Pest mix 1st source	25 ppb
-1785		50
-1786		1
-1787		2
-1788		5
-1789		10
-1790		25
-1791		100
1515624-137	mix + 2nd source	250 ppb

Standard Data

Lot #	Description	Conc.
SV 1615724-125	Pest IS/SD	5 ppm
-71	PCM	10-250 ppb
-87	IB	200 ppb
-20	chlordane 1st	10 ppm
-31	Toxaphene 1st	10 ppm
-95	Pest mix 2nd source	250 ppb
-96	chlordane 2nd source	500 ppb
-97	Toxaphene 2nd source	500 ppb

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: JR Date: 5/4/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	h2678-30	ddet				1			/	ok	
	831	IB				2			/	ok	
	832	IC 1778-1	1st source	Pest mix		3			/	ok	
	833	-2				4			/	ok	
	834	-5				5			/	ok	
	835	-10				6			/	ok	
	836	IC 1778-25				7			/	ok	
	837	IC 1778-50				8			/	ok	
	838	-75				9			/	ok	
	839	-100				10			/	ok	
	840	-500		CHL		11	20		/	ok	
	841	-500		TOX		12	20		/	ok	
	842	IC 1778-25	2nd source	Pest		13	10		/	ok	
	843	-25		mirex		14	10		/	ok	
	844	-500		CHL		15			/	ok	
	845	-500		TOX		16			/	ok	

JR 5/3/16

MTX = Matrix . Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.
Sample volume/weight refer to extraction log.
All strikeouts must be initialed, dated, and reason applied if not transcription error

Form: OR016-08
Rev. Date: 1/19/16

SGS ACCUTEST JC20098

11.7.1 11

RETENTION TIME WINDOW DETERMINATION

Instrument ID: GC4G
Method: SW846 8081B

	Lab FileID	Date/Time	Sample Number	Analyst
Std#1	4G67836.D	05/02/16 15:26	G4G1778-ICC1778	DHARAS
Std#2	4G67851.D	05/03/16 17:05	G4G1779-CC1778	DHARAS
Std#3	4G67868.D	05/04/16 08:33	G4G1780-CC1778	BRITTANP

Compound	Sig#	Type	RT#1	RT#2	RT#3	Mean	Actual StdDev	Window (+ /- 3*StdDev)
1-Bromo-2-nitrobenzene	1	ISTD	1.80	1.78	1.78	1.79	0.012	+/- 0.035
1-Bromo-2-nitrobenzene	2	ISTD	2.07	2.06	2.05	2.06	0.010	+/- 0.030
Tetrachloro-m-xylene	1	SURR	2.59	2.58	2.57	2.58	0.010	+/- 0.030
Decachlorobiphenyl	1	SURR	10.25	10.25	10.25	10.25	0.000	+/- 0.030 [a]
Tetrachloro-m-xylene	2	SURR	3.11	3.10	3.10	3.10	0.006	+/- 0.030 [a]
Decachlorobiphenyl	2	SURR	11.66	11.65	11.65	11.65	0.006	+/- 0.030 [a]
alpha-BHC	1	REG	3.15	3.14	3.14	3.14	0.006	+/- 0.030 [a]
gamma-BHC (Lindane)	1	REG	3.50	3.49	3.49	3.49	0.006	+/- 0.030 [a]
beta-BHC	1	REG	3.61	3.60	3.60	3.60	0.006	+/- 0.030 [a]
Heptachlor	1	REG	3.82	3.81	3.81	3.81	0.006	+/- 0.030 [a]
delta-BHC	1	REG	4.06	4.05	4.05	4.05	0.006	+/- 0.030 [a]
Aldrin	1	REG	4.44	4.43	4.43	4.43	0.006	+/- 0.030 [a]
Heptachlor epoxide	1	REG	5.20	5.20	5.19	5.20	0.006	+/- 0.030 [a]
gamma-Chlordane	1	REG	5.39	5.38	5.38	5.38	0.006	+/- 0.030 [a]
alpha-Chlordane	1	REG	5.57	5.56	5.56	5.56	0.006	+/- 0.030 [a]
4,4'-DDE	1	REG	5.69	5.69	5.69	5.69	0.000	+/- 0.030 [a]
Endosulfan-I	1	REG	5.75	5.75	5.74	5.75	0.006	+/- 0.030 [a]
Dieldrin	1	REG	6.09	6.09	6.08	6.09	0.006	+/- 0.030 [a]
Endrin	1	REG	6.43	6.43	6.42	6.43	0.006	+/- 0.030 [a]
4,4'-DDD	1	REG	6.57	6.57	6.57	6.57	0.000	+/- 0.030 [a]
Endosulfan-II	1	REG	6.77	6.77	6.76	6.77	0.006	+/- 0.030 [a]
4,4'-DDT	1	REG	7.00	7.00	6.99	7.00	0.006	+/- 0.030 [a]
Endrin aldehyde	1	REG	7.40	7.40	7.40	7.40	0.000	+/- 0.030 [a]
Methoxychlor	1	REG	7.81	7.81	7.81	7.81	0.000	+/- 0.030 [a]
Mirex	1	REG	8.00	7.99	7.99	7.99	0.006	+/- 0.030 [a]
Endosulfan sulfate	1	REG	8.10	8.10	8.09	8.10	0.006	+/- 0.030 [a]
Endrin ketone	1	REG	8.56	8.56	8.56	8.56	0.000	+/- 0.030 [a]
alpha-BHC	2	REG	3.87	3.87	3.86	3.87	0.006	+/- 0.030 [a]
gamma-BHC (Lindane)	2	REG	4.35	4.35	4.34	4.35	0.006	+/- 0.030 [a]
beta-BHC	2	REG	4.45	4.44	4.44	4.44	0.006	+/- 0.030 [a]
delta-BHC	2	REG	4.88	4.87	4.87	4.87	0.006	+/- 0.030 [a]
Heptachlor	2	REG	4.98	4.97	4.97	4.97	0.006	+/- 0.030 [a]
Aldrin	2	REG	5.47	5.46	5.46	5.46	0.006	+/- 0.030 [a]
Heptachlor epoxide	2	REG	6.33	6.33	6.32	6.33	0.006	+/- 0.030 [a]
gamma-Chlordane	2	REG	6.63	6.62	6.62	6.62	0.006	+/- 0.030 [a]
alpha-Chlordane	2	REG	6.86	6.86	6.85	6.86	0.006	+/- 0.030 [a]
Endosulfan-I	2	REG	6.97	6.96	6.96	6.96	0.006	+/- 0.030 [a]
4,4'-DDE	2	REG	7.12	7.12	7.11	7.12	0.006	+/- 0.030 [a]
Dieldrin	2	REG	7.41	7.41	7.41	7.41	0.000	+/- 0.030 [a]
Endrin	2	REG	7.93	7.93	7.93	7.93	0.000	+/- 0.030 [a]

RETENTION TIME WINDOW DETERMINATION

Instrument ID: GC4G
Method: SW846 8081B

	Lab FileID	Date/Time	Sample Number	Analyst
Std#1	4G67836.D	05/02/16 15:26	G4G1778-ICC1778	DHARAS
Std#2	4G67851.D	05/03/16 17:05	G4G1779-CC1778	DHARAS
Std#3	4G67868.D	05/04/16 08:33	G4G1780-CC1778	BRITTANP

Compound	Sig#	Type	RT#1	RT#2	RT#3	Mean	Actual StdDev	Window (+ /- 3*StdDev)
4,4'-DDD	2	REG	8.09	8.09	8.09	8.09	0.000	+/- 0.030 [a]
Endosulfan-II	2	REG	8.29	8.29	8.28	8.29	0.006	+/- 0.030 [a]
4,4'-DDT	2	REG	8.64	8.63	8.63	8.63	0.006	+/- 0.030 [a]
Endrin aldehyde	2	REG	8.87	8.87	8.86	8.87	0.006	+/- 0.030 [a]
Endosulfan sulfate	2	REG	9.35	9.34	9.34	9.34	0.006	+/- 0.030 [a]
Methoxychlor	2	REG	9.84	9.84	9.84	9.84	0.000	+/- 0.030 [a]
Mirex	2	REG	10.16	10.16	10.15	10.16	0.006	+/- 0.030 [a]
Endrin ketone	2	REG	10.20	10.20	10.20	10.20	0.000	+/- 0.030 [a]

(a) Default minimum StdDev of .01 minutes employed.

SGS ACCUTEST

SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: G-hc 1787

Print Analyst Name: Dharu Saponig

Date: 5/12/16

Analyst Signature:

Columns: 2DCLPD / 2DCLPM

Method 8081

Initial Cal. Method hPST 17A-F

Injection Volume: 1.0 uL

Date Archived:

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV 161872-135	Pest ISTD	5 ppm
-74	PGM	10-250ppb
-148A	Pest Mix	25 ppb
-148B	Pest Mix	50 ppb
161933-09	EB	20 ppb
160863	Hexane (Fisher)	—

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: Date: 5/17/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	MALS #	Dilution	IS	SU	Status (Data)	Comments
	h268168	dclt				1				OK	
	169	CC1778-50				4				OK	
	170	EB				3				OK	
	171	OP93822-MB1	93827	TCL 8081	W	5				OK	
	172	-BS1				6				OK	
	173	JC19996-1				7				OK	
	174	-4				8				OK	
	175	-5				9				OK	
	176	-6				10				OK	
	177	OP93822-MS				11				OK	
	178	-MSD				12				OK	
	~~179~~	~~JC19380-hr~~				~~13~~				~~OK~~	
	180	-hq				14				OK	
	181	OP93485-MB2	93485-2	8081 CHL	W	15				OK	
	182	-BS13				16				OK	
	183	JC19268-25				17				OK	
	184	dclt				1				OK	
	185	CC1778-25				2				OK	
	186	EB				3				OK	

MTX = Matrix . Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.
Sample volume/weight refer to extraction log.
All strikeouts must be initialed, dated, and reason applied if not transcription error

75

Form: OR016-08
Rev. Date: 1/19/16

SGS ACCUTEST

SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: GMC 1787

Print Analyst Name: Dhara Saparia

Date: 5/12/16

Analyst Signature:

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
168574-135	Pest DSTD	5 ppm
-79	PEM	10-250 ppb
-144A	Pest mix	25 ppb
-144B	Pest mix	50 ↓
161933-09	DB	20 ↓
160863	Hexane (Hisol)	-

Columns: 2BCLPD / 2BCLPD

Method 8081

Initial Cal. Method GPST 1778

Injection Volume: 1.0ul

Date Archived:

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: Date: 5/17/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	in2681187	Pest spike	OP161712953			5	10	/	/	ok	
	188	florisil check std	OP161712273			6	2			ok	
	189	florisil check #1	5/11/16			7				ok	
	190	check #2	5/11/16			8				ok	
	191	OP93826-MD1	93826	Soil TCLP	W	9		/	/	ok	OP 93785-4
	192	-DS1				10		/	/	ok	
	193	JC19947-5				11		/	/	ok	
	194	JC19951-1A				12		/	/	ok	
	195	-3A				13		/	/	ok	
	196	-5A				14		/	/	ok	
	197	-7A				15		/	/	ok	
	198	-9A				16		/	/	ok	
	199	-11A				17		/	/	ok	
	200	JC19976-1A				18		/	/	ok	
	201	JC19891-1	93765			19		/	/	ok	
	202	-2				20		/	/	ok	
	203	-3				21		/	/	ok	
	204	-4				22		/	/	ok	
	205	-5				23		/	/	ok	

MTX = Matrix. Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.
Sample volume/weight refer to extraction log.
All strikeouts must be initialed, dated, and reason applied if not transcription error

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Form: OR016-08
Rev. Date: 1/19/16

11.7.2 11

SGS ACCUTEST

SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: GMC 1787

Print Analyst Name: Dhaval Saparia

Analyst Signature:

Date: 5/12/16

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
161874-03	PCB IST	5 ppm
-79	PCM	10-250 ppb
-1WM	PCB mix	25 ppb
-1WM	↓	50 ↓
161933-07	IB	20
160563	Hexane (Air)	—

Columns: 20CLPD1 20CLPD

Method 8081

Initial Cal. Method MPST 1772

Injection Volume: 1.0 ul

Date Archived:

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: Date: 5/17/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	n2 65206	CC 1778-50				4		/	/	ok	
	207	IB				3		/	/	ok	
	208	JC19462-NOR	93785	Pest TCLP	W	24		/	/	ok	
	209	OP93826-254				25		/	/	ok	+ms
	210	-MSD				26		/	/	ok	
	211	-LB11				27		/	/	ok	

DKS 5/13/16

MTX = Matrix . Designate W for soil, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.
Sample volume/weight refer to extraction log.
All strikeouts must be initialed, dated, and reason applied if not transcription error

Form: OR016-08
Rev. Date: 1/19/16

SGS ACCUTEST

SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: GHC 1788

Print Analyst Name: Dhara supariy

Date: 5/13/16

Analyst Signature:

Columns: 2DCLPP1 / 2DCLPP

Method 8081

Initial Cal. Method HPST 1787

Injection Volume: 1.0 ul

Date Archived:

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV1687HDS	Rest DBTD	5000
-79	RGM	10-250
-1604	Rest min	25
-2HM	↓	50
161439-04	IB	20 ↓
160863	Hexane (Fisher)	-

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:

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	N268-212	ddt				1		✓	✓	not usin	
	213	CC1778-25				2		✓	✓	not usin	DDT ↓ 1st
	214	IB				3		✓	✓	OK	
	215	OP93870-MS1	93870	8081	W	5			✓	~~not OK~~	DK 5/16
	216	-MS1		TCL		6			✓	RX	DBHCL, RX whole batch
	217	JC20098-4				7				~~not OK~~	DK 5/16
	218	-5				8					
	219	JC20058-1				9					
	220	-MS				10					
	221	-MSD				11					
	222	JC20058-2				12					
	223	-3				13					
	224	-4				14					
	225	-5				15					
	226	-6				16					
	227	-7				17					
	228	-8				18					
	229	-10				19					
	230	-11				20				Not Run	out from sequence

MTX = Matrix . Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.
Sample volume/weight refer to extraction log.
All strikeouts must be initialed, dated, and reason applied if not transcription error

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Form: OR016-08
Rev. Date: 1/19/16

11.7.3 11

SGS ACCUTEST

SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: G4G 1788

Print Analyst Name: Dhara Suparia

Analyst Signature: [illegible]

Date: 5/13/16

Columns: 20CLP1 | 20CLP2

Method 8081

Initial Cal. Method 4PST 1772

Injection Volume: 1 µL

Date Archived:

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.

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: [illegible] Date: [illegible]

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	4g68231	JC2005-12	93870	8081		21				NOT RUN	cut from sig
	232	-13				22				NOT RUN	
	233	-14				23				NOT RUN	

DCS 5/13/16

MTX = Matrix. Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.
Sample volume/weight refer to extraction log.
All strikeouts must be initialed, dated, and reason applied if not transcription error

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Form: OR016-08
Rev. Date: 1/19/16

11.7.3 11

SGS ACCUTEST

SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: G6G1010

Print Analyst Name: Dhara Saporia

Date: 5/13/16

Analyst Signature: [signature]

Columns: 2 DCLPE / 2 DCLPP

Method 8081

Initial Cal. Method 8081 987

Injection Volume: 1.0 ul

Date Archived:

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV168772-135	Pest Std	5 ppm
-74	PEM	10-250 ppb
-1MM	Pest mix	25 ppb
-1MM	↓	50
162933-09	DB	20
160863	Hexane (Fisher)	—

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature]

Date: 5/27/16 5/19/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	6235033	ddw				1		/	/	OK	
	034	CC987-25				2		/	/	OK	
	035	DB				3		/	/	OK	
	036	08 ~~93870-MD1~~ 93857-MD1	~~93870~~ DH5/18	8081	S	5		/	/	OK	
	037	08 93857-MD1	93857			6		/	/	OK	
	038	-MD3				7		/	/	OK	
	039	JC19951-1		TCL/PAL		8		/	/	OK	
	040	JC19951-1	93838	8081 PAL	S	9		/	/	OK	
	041A	08 93857-MS	93857	TCL		10		/	/	OK	
	042	-MSD				11		/	/	OK	
	043	JC20045-1				12		/	/	OK	
	044	-2				13		/	/	OK	
	045	-3				14		/	/	OK	
	046	-4				15		/	/	OK	
	047	-5				16		/	/	OK	
	048	-6				17		/	/	OK	
	049	-7				18		/	/	OK	
	050	-8				19		/	/	OK	
	051	-9				20		/	/	OK	

MTX = Matrix . Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.
Sample volume/weight refer to extraction log.
All strikeouts must be initialed, dated, and reason applied if not transcription error

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Form: OR016-08
Rev. Date: 1/19/16

11.7.4 11

SGS ACCUTEST

SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: G6G1010

Print Analyst Name: Dhara Suparia

Analyst Signature: [signature]

Date: 5/10/16

Columns: 2nCLPD / 2nCLPD

Method 8081

Initial Cal. Method GPST 9/17

Injection Volume: 1.0 uL

Date Archived:

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV161[illegible]	Pest IS/SD	500 ppm
-70	PEM	10-250 ppb
-1MM	Pest mix	25 ppb
-1MM	Pest mix	50
161933-04	IB	20
160863	Hexane (Fisher)	–

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] Date: 5/17/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	6g35052	JC19996-2	93857	8081 TCL		21		/	/	ok	
	053	OP93870-BS1	93870			22		/	/	ok	
	054	blk				1		/	/	ok	
	055	CC 987-50				4		/	/	ok	
	056	IB				3		/	/	ok	
	057	OP93831-MB1	93831	Pest 608	W	5		/	/	ok	
	058	-BS1		PPL		6		/	/	ok	
	059	-BSD				7		/	/	ok	
TL 5/17	060	TC85062-1				8		/	/	ok	
	061	-2				9		/	/	ok	
	062	-3				10		/	/	ok	
	063	-4				11		/	/	ok	
	064	-5				12		/	/	ok	
	065	CC987-25				2		/	/	ok	
	066	IB				3		/	/	ok	
	067	OP93772-MB1	93772	Pest 608	W	13		/	/	ok	Had TBA
	068	-BS1				14		/	/	ok	
	069	JC19815-1				15		/	/	ok	CF
	070	-2				16		/	/	ok	

MTX = Matrix. Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.
Sample volume/weight refer to extraction log.
All strikeouts must be initialed, dated, and reason applied if not transcription error

Form: OR016-08
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SGS ACCUTEST

SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: G6g 1010

Date: 5/13/16

Print Analyst Name: Thomas Lally

Analyst Signature: TL

Columns: ZBCLPI/ZBCLPII

Method 8081

Initial Cal. Method 6PST987

Injection Volume: 1.0uL

Date Archived:

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV7614-7-05	Pest ISTD	5 ppm
-79	PCM	10-250 ppb
-mm	Pest mix	25 ppb
-mm	Pest mix	50
161932-09	IB	20
160863	Hexane (Fisher)	–

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: [illegible] Date: 5/17/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	6g35071	JC19815-3	93772	~~PCL~~ Pest 608	W	17				RR	
	072	OP93772 -MS				18				ok	cf
	073	-MSD				19				ok	cf
	074	JC19815-4				20				Not usin	Need TBA
	075	cc987-50				4				ok	methoxychlor ↓ ↓ RR with better cc
	076	IB				3				ok	
	077	JC19815-5	93772	Pest 608	W	21				not using	
	078	-6				22				not using	
	079	-7				23				not using	
	080	-8				24				not using	Need TBA
	081	-9				25				not using	
	082	-10				26				not using	Need TBA
	083	-11				27				not using	↓
	084	cc987-25				2				NO	DDT, methoxychlor ↓ better
	085	IB				3				Not usin	

RK 5/16/16

MTX = Matrix . Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.
Sample volume/weight refer to extraction log.
All strikeouts must be initialed, dated, and reason applied if not transcription error

Form: OR016-08
Rev. Date: 1/19/16

SGS ACCUTEST JC20098

SGS ACCUTEST

SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: G6G1011

Print Analyst Name: Rebecca Krug

Analyst Signature: RK

Date: 5/16/16

Columns: ZBCLPI/ZBCLPII

Method 8081

Initial Cal. Method 6PST987

Injection Volume: 1.0 L

Date Archived:

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV 161872MDS	PCBs ISTD	5 ppm
-79	PCBs	10-250 ppb
-1MM	PCBs mix	25 ppb
-1MM	PCBs mix	50
161932-01	IB	20
160863	Hexane Cyclohex	–

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] Date: 5/17/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	6g35086	ddk				1		/	/	OK	
	087	CC987-25				2		/	/	OK	
	088	IB				3			/	Not using	Bad injection
	089	08938948-MBI	938948	50ml TCL	W	5		/	/	OK	
	090	-BS1				6		/	/	OK	
	091	JC20095-5				7		/	/	OK	
	092	08938949-MBI	938949	50ml	S	8		/	/	OK	
	093	-BS1				9		/	/	OK	
	094	CH5790-1				10				Not run	cut from sequence
	095	-2				11					
	096	-7				12					
	097	CH5791-1				13					
	098	-2				14					
	099	-7				15					
	100	CH5792-1				16					
	101	-2				17					
	102	-7				18					
		CH5793-1									
		-2									

MTX = Matrix . Designate W for soil, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.
Sample volume/weight refer to extraction log.
All strikeouts must be initialed, dated, and reason applied if not transcription error

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Form: OR016-08
Rev. Date: 1/19/16

11.7.5 11

SGS ACCUTEST

SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: G6G1011

Print Analyst Name: Dhaval Saporia

Date: 5/16/16

Analyst Signature:

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV161214-05	Pest ISTD	5 ppm
-74	PCM	10-100ppm
-1mm	Pest mix	25 ppb
-1mm	Pest mix	50
161927-09	IB	20
160863	Hexane (Fisher)	–

Columns: 2BCLPD | 2NCLPD

Method 8081

Initial Cal. Method 6PST 984

Injection Volume: 1.0 µL

Date Archived:

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: **Date:** 5/17/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	—	C45793-7	93899	8081	S	—				NOT RUN	cancel from sequence
	6235094	OP93876-MB1		8011 TCLP	W	10				OK	OP93766-2
	095	-BS1				11				OK	
	096	JC20045-1A				12				OK	
	097	-2A				13				OK	
	098	-3A				14				OK	
	099	-4A				15				OK	
	100	-5A				16				OK	
	101	-6A				17				OK	
	102	-7A				18				OK	
	103	-8A				19				OK	
	104	-9A				20				OK	
	096a	OP93898-MB1				21				OK	run before 6g350977
	105	dclt				1				OK	
	106	CC987-50				4				OK	
	107	IB				3				OK	
	108	Pest Spike				6	10			~~OK~~ RVS 5/16	OP16-1712-95B
	109	C45790-1	93899	8081 PCL	S	7				OK	
	110	-2				8				OK	

MTX = Matrix. Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.
Sample volume/weight refer to extraction log.
All strikeouts must be initialed, dated, and reason applied if not transcription error

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Form: OR016-08
Rev. Date: 1/19/16

11.7.5 11

SGS ACCUTEST JC20098

SGS ACCUTEST

SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: G6G1011

Print Analyst Name: Thomas Lally

Analyst Signature: TL

Date: 5/16/16

Columns: ZBCLPI | ZBCLPII

Method 8081

Initial Cal. Method G PST987

Injection Volume: 1.0 uL

Date Archived:

Standard Data

Lot #	Description	Conc.
		SV 16-1933
		TL 5/16

Standard Data

Lot #	Description	Conc.
SV 16-1871-135	Pest ISTD	5 ppm
-79	Pem	10-250 ppb
-148A	Pest Mix	25 ppb
-148B	↓	50 ppb
04 ~~87~~	IB	20 ppb
~~03~~ ~~20~~		
160963	hexane (Fisher)	—

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] Date: 5/17/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	G6G35111	C45790-7	93899	8081 PCL	S	9		/	/	OK	
	112	C45791-1				10		/	/	OK	
	113	-2				11		/	/	OK	
	114	-7				12		/	/	OK	
	115	C45792-1				13		/	/	OK	
	116	-2				14		/	/	OK	
	117	-7				15		/	/	OK	
	118	C45793-1				16		/	/	OK	
	119	-2				17		/	/	OK	
	120	-7				18		/	/	OK	
	121	OP93876-LS5	93876	8081 TCLP	W	19		/	/	OK	+.mg
	122	-MSD				20		/	/	OK	
	123	-LB14				21		/	/	OK	
	124	OP93766-LB35	93766	8081 TCLP	W	22		/	/	OK	
	125	-LS18				23		/	/	OK	
	126	-MSD				24		/	/	OK	
	127	hexane				100				OK	
	128	hexane				100				OK	
	129	CC987-25				2			↓	ng	

MTX = Matrix. Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.
Sample volume/weight refer to extraction log.
All strikeouts must be initialed, dated, and reason applied if not transcription error

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Form: OR016-08
Rev. Date: 1/19/16

11.7.5 11

SGS ACCUTEST

SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: G6G1012

Print Analyst Name: Rebecca Kruy

Analyst Signature: RK

Date: 5/17/16

Columns: ZBCLPI / ZBCLPII

Method 8081

Initial Cal. Method 6PST987

Injection Volume: 1.0 µL

Date Archived:

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV168574-D5	Pest IS/SD	5 PPM
-79	PCM	10-250 PPB
-174PA	Pest mix	25 PPb
-174PB	Pest mix	50
164433-09	IS3	20
168863	Hexane (Fisher)	-

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] **Date:** 5/19/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	6g35138	ddt				1				OK	
	139	cc987-25				2				OK	
	140	IB				3				OK	
	141	Pest Spike				26				OK	OP16.1712.95C
	142	Pest Spike				27				OK	OP16.1712.114A
	143	OP93928-MB1	93928	tcl 8081	S	28				OK	
	144	OP93928-BS1				29				OK	
	145	OP93899-MS	93899	tcl 8081	S	30				OK	
	146	OP93899-MSD				31				OK	
	147	JC20111-5				32				OK	
	148	JC20113-5				33				OK	
	149	JC20137-2	93898	tcl 8081	W	34				OK	
	150	OP93898-MS				35				OK	
	151	OP93898-MSD				36				OK	
	152	JC20241-1	93928	dieldrin 8081	S	37				OK	
	153	-2				38				OK	
	154	JC20260-3		tcl 8081		39				OK	
	155	OP93928-MS				40				OK	
	156	OP93928-MSD				41				OK	

MTX = Matrix. Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.
Sample volume/weight refer to extraction log.
All strikeouts must be initialed, dated, and reason applied if not transcription error

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Form: OR016-08
Rev. Date: 1/19/16

11.7.6 11

SGS ACCUTEST

SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: G6G1012

Print Analyst Name: Dhara Saparia

Analyst Signature:

Date: 5/17/16

Columns: 2BCLP2 / 2BCLP1

Method 8081

Initial Cal. Method G8ST 987

Injection Volume: 1.0 uL

Date Archived:

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
161174-135	Pest IST D	500 ppm
-79	PGM	10-250 ppm
-1mA	Pest mix	25 ppb
-1mB	Pest mix	50
161433-01	IB	20
160863	Hexane (Fish)	–

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: Date: 5/19/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	6235 157	ddt				1				OK	
	158	ccv987-50				2				OK	
	159	IB				3				OK	
	160	OP93942-MD1	93942	8081 TCL		5				OK	
	161	-BS1		TCL		6				OK	
	162	TC8525h-1				7				OK	
	163	OP93942-MS				8				OK	
	164	-MSD				9				OK	
	165	TC8525h-2				10				OK	
	166	-3				11				OK	
	167	-4				12				OK	
	168	JC20137-1	93989	8081 TCL	W	13				OK	
	169	-3				14				OK	
	170	-4				15				OK	
	171	-5				16				OK	
	172	-6				17				OK	
	173	-7				18				OK	
	174	-8				19				OK	
	175	-9				20				OK	

MTX = Matrix . Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.
Sample volume/weight refer to extraction log.
All strikeouts must be initialed, dated, and reason applied if not transcription error

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Form: OR016-08
Rev. Date: 1/19/16

11.7.6 11

SGS ACCUTEST

SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: G6G 1012

Print Analyst Name: Dhara Saparia

Analyst Signature:

Date: 5/17/16

Columns: 2BCLPT | 2DCLPT

Method 8081

Initial Cal. Method 8081 987

Injection Volume: 1.0 ul

Date Archived:

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV1C187-B5	PCS# ISTD	5 ppm
-79	PCM	10-250 ppb
-1487	PCS# mix	25 ppb
-1487	PCS# mix	50
161933-09	IB	20
160863	Hexane (Fisher)	-

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: RK Date: 5/19/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	6235176	JC20137-10	93895	8081 TC	W	21				OK	
	177	-11				22				OK	
	178	-12				23				OK	
	179	CC987-25				2				OK	
	180	IB				3				OK	
	181	JC20137-13				24				OK	
	182	-14				25				OK	
	183	-15				26				OK	
	184	-16				27				OK	
	185	JC20244-1	93942	8081 TC	S	28				OK	
	186	-2				29				OK	
	187	-3				30				OK	
	188	-4				31				OK	
	189	JC20256-1				32				OK	RR 1:5
	190	-2				33				OK	

RK 5/18/16

MTX = Matrix . Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.
Sample volume/weight refer to extraction log.
All strikeouts must be initialed, dated, and reason applied if not transcription error

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Form: OR016-08
Rev. Date: 1/19/16

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SGS ACCUTEST

SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: G6G987

Print Analyst Name: Dhara Sapania

Date: 04/14/16

Analyst Signature: [signature]

Columns: 2BCLPD / 2DCLPD

Method 8081, 608

Initial Cal. Method G8ST987

Injection Volume: 1.0 uL

Date Archived:

Standard Data

Lot #	Description	Conc.
161574-1147	Pest mix 1st	25 PPb
-1148		50
-1149		1
-1150		2
-1151		5
-1152		10
-1153		75
-1154		100

Standard Data

Lot #	Description	Conc.
SV161174-05	Pest IRTD	5 PPm
-79	PCM	10-250 PPb
-87	IB	20 PPb
-20	Chlordane 1st	10 PPm
-21	Toxaphene 1st	10 PPm
-95	Pest mix 2nd source	250 PPb
-96	Chlordane 2nd	500 PPb
-97	Toxaphene 2nd	500 PPb
157194	Hexane Blk	

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:** 4/19/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	G234128	dblt				1				OK	
	129	IB				2				OK	
	130	IC 987-1	1st source	Pest mix		3				OK	
	131	-2				4				OK	
	132	-5				5				OK	
	133	-10				6				OK	
	134	ICC 987-25				7				OK	
	135	IC 987-50				8				OK	
	136	-75				9				OK	
	137	-100				10				OK	
	138	-500		CHL		11	20			OK	
	139	-500		Tox		12	20			OK	
	140	ICV987-25	Pest			13	10			OK	
	141	-25	mirex			14	10			OK	OP15256437 - 250 PPb (mirex
	142	-500	CHL			15				OK	
	143	-500	Tox			16				OK	

BP 4/17/16

MTX = Matrix . Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.

Sample volume/weight refer to extraction log.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Form: OR016-08
Rev. Date: 1/19/16

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LOGBOOK ID: 6-1734

Pest/PCB Extraction Log - Aqueous

Date Started: 5/12/16 Time Started: 1700
Date Finished: 5/12/16 Time Finished: 2200

Extract Method (CHECK OFF "√" /DO NOT CIRCLE):
Separatory Funnel: SW846 3510C/CLP/other √
Continuous Liquid Liquid: SW846 3520C/CLP/other

BATCH # GC 93870 RACK# 6E12

Extracted by:	RFGM
Concentrated by:	RGo, ADC
Vialed by:	GM, KS, SD
Relinquished by:	
Accepted by:	
Supervisor Review:	AM 5/13/16

Special Client Spike Instructions

QC ID# for Special Spike	Amt to Spike	Spike ID	Lot #	Conc.	Amt. Spiked

WITNESS SIGN: SPIKE SIGN:
Manager/Supervisor/Team Lead Approval: 5/12/16

Sample #	Analysis Type	Sample Bottle #	pH	Sample Description	Sample Volume (mL)	Final Extract Color	Final Extract Vol(mL)	GPC	Copper	H2SO4	Florisil	Comments
MB1	Pest			DI H2O	1000	clear	10		✓			
BS1				DI H2O	1000	clear	10		✓			
JC20058-1 MS		1		clear	500	clear	10		✓			
↓ MSD		1		clear	500	clear	10		✓			
BS												
MS												
MSD												
~~JC20098-1~~	Pest											△
-4		3		yellow	980	clear	10		✓			
-5		3		brown	900	clear	10		✓			
JC20058-1		2		clear	1000	clear	10		✓			
-2		2		clear	1000	clear	10		✓			
-3		4		clear	1000	clear	10		✓			
-4		2		clear	1000	clear	10		✓			
-5		~~3~~		clear	1000	clear	10		✓			★
-6		2		clear	1000	clear	10		✓			
-7		4		yellow	1000	clear	10		✓			
-8		2		clear	980	clear	10		✓			
-10		4		yellow	1000	clear	10		✓			
-11		1		yellow	970	clear	10		✓			
-12		3		clear	1000	clear	10		✓			
-13		1		clear	1000	clear	10		✓			
-14		1		yellow	1000	clear	10		✓			
-15		2		clear	980	clear	10		✓			

1dTAT

Comments: ★ Bottle # is 1
△ sample depleted due to lab error

Equipment/ Range	ID	Observed Temp (°C)	Correction Factor (°C)	Corrected Temp (°C)	Pressure/ Flowrate
Buchi (65-71°C)	3	65	N/A	N/A	OK
Buchi Chiller	6-3	10.9	—	—	4
Waterbath (70-80°C)	6/7	76/76	-0.5/0.1	76/76	N/A
Waterbath Chiller (GPM)	F2	-3	N/A	N/A	2
NEVAP (32-38°C, LPM)					

SURROGATE	LOT #	CONC (ppb)	AMT (mL)
PPCB	16171291	400	1

WITNESS SIGN: SD SPIKE SIGN: RF

MATRIX SPIKE	LOT #	CONC	AMT (mL)
PEST	16171278	250ppb	1
PCB			

WITNESS SIGN: SD SPIKE SIGN: RF

SOLVENT	LOT #	BRAND	AMT (mL)
METH CHLOR	162661	Fisher	3/60
HEXANE	160863	Fisher	50

REAGENT	LOT #	BRAND
Sodium Sulfate	157977	Fisher
Glass Wool	02805-2	Lab
Filter Paper		
Copper	16171266	Aldrich
Florisil		
1:1 Sulfuric Acid		
Chlorine Strips		

SPECIAL PROCESSING INSTRUCTIONS

Rx Reason:

Spiking:

Weights/Volumes:

Required MS/MSD:

Final Volume:

Other:

SGS ACCUTEST INC.
Form: OP021A-06
Rev Date: 1/13/16

LOGBOOK ID: 6-1764

Pest/PCB Extraction Log - Aqueous

Date Started: 5-13-16 Time Started: 6:00pm
Date Finished: 5-13-16 Time Finished: 9:30pm

Extract Method (CHECK OFF "√" /DO NOT CIRCLE):
Separatory Funnel: SW846 3510C/CLP/other_____
Continuous Liquid Liquid: SW846 3520C/CLP/other_____

BATCH # GC 93898 RACK# Pest-1

Extracted by:	ADC, SD
Concentrated by:	ADC, SD
Vialed by:	SD, GM
Relinquished by:	SD
Accepted by:	
Supervisor Review:	5/13/16

Special Client Spike Instructions

QC ID# for Special Spike	Amt to Spike	Spike ID	Lot #	Conc.	Amt. Spiked

Sample #	Analysis Type	Sample Bottle #	pH	Sample Description	Sample Volume (mL)	Final Extract Color	Final Extract Vol(mL)	GPC	Copper	H2SO4	Florisil	Comments
MB1	Pest			DI H2O	1000	clear	10		✓			
BS1				DI H2O	1000	clear	10		✓			
JC20137-2 MS		3	8	orange	995	yellow	10		✓			
↓ MSD		3	8	orange	995	yellow	10		✓			
BS												
MS												
MSD												
1) JC20137-1	Pest	3		orange	980	~~clear~~	10		✓			
2) -2		4	4	orange	990	~~yellow~~	10		✓			△
3) -3		4		orange	1000	~~yellow~~	10		✓			△
4) -4		4		clear	980	clear	10		✓			
5) -5		3		brown	980	~~dark clear~~	10		✓			△
6) -6		3		clear	980	clear	10		✓			
7) -7		2	2	yellow	980	clear	10		✓			
8) -8		3		clear	970	clear	10		✓			
9) -9		1		clear	970	clear	10		✓			
10) -10		2		clear	970	clear	10		✓			
11) -11		2		clear	970	clear	10		✓			
12) -12		4		clear	970	clear	10		✓			
13) -13		2		yellow	970	clear	10		✓			
14) -14		2		yellow	970	clear	10		✓			
15) -15		2		yellow	970	clear	10		✓			
16) -16		1		clear	970	clear	10		✓			
17) JC20098-5	RX	2		brown	970	clear	10		✓			
18												
19												
20												

RX due 5/13

Comments: okay to split MS/MSD, not enough bottles

DI: clear

Equipment/ Range	ID	Observed Temp (°C)	Correction Factor (°C)	Corrected Temp (°C)	Pressure/ Flowrate
Buchi (65-71°C)	3	65	—	—	ok
Buchi Chiller	B-3	M	—	—	ok
Waterbath (70-80°C)	6/7	75/75	0.5/0.1	75/75	N/A
Waterbath Chiller (GPM)	F-2	1	—	—	ok
NEVAP (32-38°C, LPM)					

SURROGATE	LOT #	CONC (ppb)	AMT (mL)
PPCB	16 DTL 101	400	1
PPCB	16 DTL 91	400	1

WITNESS SIGN: SD SPIKE SIGN: ADC

MATRIX SPIKE	LOT #	CONC	AMT (mL)
PEST	OP16017129-B	250	1
PCB			

WITNESS SIGN: SD SPIKE SIGN: ADC

SOLVENT	LOT #	BRAND	AMT (mL)
METH CHLOR	162661	Fisher	3/60
HEXANE	160863	Fisher	50

REAGENT	LOT #	BRAND
Sodium Sulfate	165426	Fisher
Glass Wool	02205-2	lab
Filter Paper		
Copper	16171260	Aldrich
Florisil		
1:1 Sulfuric Acid		
Chlorine Strips		

Manager/Supervisor/Team Lead Approval:

WITNESS SIGN: SPIKE SIGN:

SPECIAL PROCESSING INSTRUCTIONS

Rx Reason:

Spiking:

Weights/Volumes:

Required MS/MSD:

Final Volume:

Other:

SGS ACCUTEST INC.
Form: OP021A-06
Rev Date: 1/13/16

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General Chemistry

QC Data Summaries

Includes the following where applicable:

- Percent Solids Raw Data Summary

Percent Solids Raw Data Summary

Job Number: JC20098
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: JC20098-2 **Analyzed:** 13-MAY-16 by KP **Method:** SM2540 G-97
ClientID: RA-19 (5-6)

Wet Weight (Total)	31.64	g
Tare Weight	23.82	g
Dry Weight (Total)	29.73	g
Solids, Percent	75.6	%

Sample: JC20098-3 **Analyzed:** 13-MAY-16 by KP **Method:** SM2540 G-97
ClientID: RA-19 (6.2-7.2)

Wet Weight (Total)	31.09	g
Tare Weight	23.01	g
Dry Weight (Total)	29.16	g
Solids, Percent	76.1	%